

Appendices

LED Impact Evaluation Report

Prepared for California Public Utilities Commission

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Appendix A

Participant Survey for 2010-2012 CA IOU Nonresidential Downstream Lighting Programs

	Participant Survey for 2010-2012 CA IOU Nonresidential Downstream Lighting Programs	
	INTRODUCTION AND FINDING CORRECT RESPONDENT	
OUTCOME1	This is calling on behalf of the CPUC, from ITRON CONSULTING. THIS IS NOT A SALES CALL NOR A SERVICE CALL. May I please speak with <& CONTACT > the person at your organization that is most knowledgeable about your participation in <& UTILITY > 's <& PROGRAM > Program. ![IF NEEDED] This is a fact-finding survey only, authorized by the California Public Utilities Commission.	
1	Yes (go to next screen)	Continue
2	Make appointment	Make appt and record time
3	Busy/engaged	Record Response and T&T
4	No Answer	Record Response and T&T
5	Refused	Record Response and T&T
6	Disconnected	Record Response and T&T
7	Answering Machine - no message	Record Response and T&T
8	Duplicate	Record Response and T&T
9	DRNA	Record Response and T&T
10	Disability	Record Response and T&T
11-12	Language Barriers	Record Response and T&T
13	Answering Machine - left message	Record Response and T&T
14	NO SCREEN - Participant	Record Response and T&T
15	Hang up	Record Response and T&T
16	Residence	Record Response and T&T

	I
Fax	Record Response and T&T
Quota full	Record Response and T&T
Wrong Address	Record Response and T&T
Home office	Record Response and T&T
Max attempts	Record Response and T&T
General callback	Record Response and T&T
Name/Number changed	Record Response and T&T
Thank you for your time and help today. For this study, we need to speak to someone about your organization's installation of energy efficient equipment that your organization installed through <&UTILITY>'s <&PROGRAM> program.	END
THAN THE BEST CONTACT] Who would be the person at this location who is most knowledgeable about this facility's energy using equipment? [ENTER NEW CONTACT NAME AND MOVE ON] [IF NEEDED] This is not a sales call. [IF NEEDED] This is a fact-finding survey only, and responses will not be connected with your firm in any way. The California Public Utilities Commission wants to better understand how businesses	
There is no one here who can help you	Thank & Terminate
Continue Q1B until you find appropriate contact person, record as &CONTACT	Intro3:s
[IF BEST CONTACT IS AVAILABLE] Hello, my name is <interviewer name=""> and I am calling on behalf of the California Public Utilities Commission from Itron Consulting. I understand you are the person at your location that is most knowledgeable about this facility's energy using equipment. Is this correct?</interviewer>	
Current individual is best contact	Person:s
Transferred to best contact	Intro3:s
Given best contact's name and number	Appoint
Property management company handles this	PROP5
Don't know/refused	T&T
Is there a phone extension or phone number you recommend we use when we call back?	
Record Extension or Phone Number, &PHONE	Thank & Terminate
Refused	Thank & Terminate
	Quota full Wrong Address Home office Max attempts General callback Name/Number changed Thank you for your time and help today. For this study, we need to speak to someone about your organization's installation of energy efficient equipment that your organization installed through <&UTILITY's <&PROGRAM> program. [IF YOU ARE TRANSFERRED TO ANOTHER PERSON OTHER THAN THE BEST CONTACT] Who would be the person at this location who is most knowledgeable about this facility's energy using equipment? [ENTER NEW CONTACT NAME AND MOVE ON] [IF NEEDED] This is not a sales call. [IF NEEDED] This is not a sales call. [IF NEEDED] This is a fact-finding survey only, and responses will not be connected with your firm in any way. The California Public Utilities Commission wants to better understand how businesses think about and manage their energy consumption. There is no one here who can help you Continue Q1B until you find appropriate contact person, record as &CONTACT [IF BEST CONTACT IS AVAILABLE] Hello, my name is <interviewer name=""> and I am calling on behalf of the California Public Utilities Commission from Itron Consulting. I understand you are the person at your location that is most knowledgeable about this facility's energy using equipment. Is this correct? Current individual is best contact Transferred to best contact Transferred to best contact Given best contact's name and number Property management company handles this Don't know/refused Is there a phone extension or phone number you recommend we use when we call back? Record Extension or Phone Number, &PHONE</interviewer>

99	Don't know	Thank & Terminate
PROP5	May I have the name and contact information of your property management company?	Terrimitate
1	Yes - RECORD	Record Response and T&T
2	No	Thank & Terminate
88	Refused	Thank & Terminate
99	Don't Know	Thank & Terminate
Appoint	[IF RECOMMENDED CONTACT IS NOT CURRENTLY AVAILABLE] When would be a good day and time for us to call back?	
77	Record day of the week, time of day and date to call back, as &APPOINT	Record Response and T&T
88	Refused	Intro3(99)
99	Don't know	Intro3(99)
	If Person(3)	
Intro3(99)	Thank you for your time. We need to speak with the person at your organization that is most familiar with this facility's energy using equipment. Those are all of the questions I have for you today.	Abandoned User30
Hi	Who would be the person at this location who is most knowledgeable about this facility's energy using equipment? [Enter technical Contact Name and move on.]	
77	Record Name, as &CONTACT	May_I
88	Refused	Thank & Terminate
99	Don't know	Intro3(99)
May_I	May I speak with him/her?	
77	Yes	Intro3:s
88	No (not available right now@, set cb)	Abandoned Appointment
PERSON:s	Your organization participated in <&UTILITY>'s <&PROGRAM> Program by installing energy saving lighting equipment around <&DEEM_PAID_DATE1> <&CUST_PAID_DATE>. Through this program, your organization installed <&CUSTOM_MEASURE> <<QTY1><<MEAS1> <<QTY2><<MEAS2> <<QTY3><<MEAS3> Are you the person most knowledgeable about your organization's participation in<&UTILITY>'s <&PROGRAM> Program?	
1	Yes	Continue
2	Yes, need to make appointment	Appointment
4	No	Thank & Terminate
99	No one knows about the energy using equipment	Thank & Terminate

If you need to provide validation for this survey you should provide the following website **www.cpuc.ca.gov/eevalidation**Before we start, I would like to inform you that for quality control purposes, this call may be monitored by my supervisor.

Today we're conducting a very important study on the energy needs and perceptions of organizations like yours. We are interested in how organizations like yours think about and manage their energy consumption.

Your input will allow the California Public Utilities Commission to build and maintain better energy savings programs for customers like you.

This is a fact-finding survey only, and responses will not be connected with your organization in any way.

	connected with your organization in any way.	
	SCREENER	
VERIFY	For verification purposes only, may I please have your name?	
	Get name	Scrn_Addr
88	Refused	Scrn_Addr
99	Don't know	Scrn_Addr
Scrn_Addr	First, I'd like to ask you a few questions about your organization and facility. Our records show your organization is located at &SERV_ADDR in &CITY. Is that correct? [CONTINUE IF ADDRESS REPORTED BY RESPONDENT IS SIMILAR ENOUGH]	
1	Yes	Bus_Name
2	No No	CORRECT
88	Refused	COMMENT
99	Don't Know	COMMENT
COMMENT	We were attempting to reach the customer at &ADDRESS and since you cannot confirm this address, those are all the questions that we have for you today, on behalf of the California Public Utilities Commission, thank you for your time. May I have your correct address?	
&CORRECT	Corrected Address	COMPARE
COMPARE	Are these addresses similar or totally different? Computer Address - &ADDRESS Corrected Address - &CORRECT	COMPARE
1	Similar	Bus_Name
2	Totally Different	COMMENT2
COMMENT2	We were attempting to reach the <&UTILITY> customer at &ADDRESS in &CITY and since that does not match your address, then we must have mis-dialed the telephone number. Those are all the questions that we have for you today, on behalf of the California Public Utilities Commission. Thank you for your time and cooperation.	Thank and Terminate
BUS_NAME	Our records show your organization's name as: &BUSINESS. Is that correct?	
1	Yes	INCENT
2	No	Bus_Correct

88	Refused	COMMENT
99	Don't Know	COMMENT
BUS_CORRECT	What is the correct name for your organization?	
&BUS_CORRECT	Corrected Business	INCENT
INCENT	What percentage of the cost of your lighting installation was covered by the <&UTILITY>'s <&PROGRAM> program?	1
77	RECORD RESPONSE	A1gg
88	REFUSED	FM050
99	DON'T KNOW	FM050
	IF INCENT <> 100 then ask; Else skip to FM050;	1
A1gg	What incentive amount did your organization receive from the program towards your lighting installation?	
77	RECORD VERBATIM	FM050
88	Refused	FM050
99	Don't know	FM050
FM050	What is the main business ACTIVITY at this facility? [DO NOT READ]	
1	Offices (non-medical)	FM050a
2	Restaurant/Food Service	FM050b
3	Food Store (grocery/liquor/convenience)	FM050c
4	Agricultural (farms, greenhouses)	FM050d
5	Retail Stores	FM050e
6	Warehouse	FM050f
7	Health Care	FM050g
8	Education	FM050h
9	Lodging (hotel/rooms)	FM050i
10	Public Assembly (church, fitness, theatre, library, museum, convention)	FM050j
11	Services (hair, nail, massage, spa, gas, repair)	FM050k
12	Industrial (food processing plant, manufacturing)	FM0501
13	Laundry (Coin Operated, Commercial Laundry Facility, Dry Cleaner)	FM050m
14	Condo Assoc./Apartment Mgr. (Garden Style, Mobile Home Park, High-rise, Townhouse)	FM050n
15	Public Service (fire/police/postal/military)	FM050o
77	OPEN\Record Other Service Shop	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050a	Which of the following types of offices best describes this facility? Would you say[READ]	
1	Administration and management	CC2a
2	Financial / Legal	CC2a
3	Insurance/Real Estate	CC2a
4	Data Processing/Computer Center	CC2a
5	Mixed-Use/Multi-tenant	CC2a
6	Lab/R&D Facility	CC2a
7	Software Development	CC2a

8	Government Services	CC2a
9	Office with Warehouse	CC2a
10	Contractor's Offices	CC2a
11	Telecommunications Center (call center)	CC2a
12	Travel Services (Travel Agent)	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050b	Which of the following types of restaurants or food service best describes this facility? Would you say [READ]	
1	Fast Food or Self Service	CC2a
2	Specialty/Novelty Food Service	CC2a
3	Table Service	CC2a
4	Bar/Tavern/Nightclub/Brew Pub or Microbrewery/Other entertainment	CC2a
5	Caterer	CC2a
6	Other Food Service	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050c	Which of the following types of food stores best describes this facility? Would you say[READ]	1
1	Supermarkets	CC2a
2	Small General Grocery	CC2a
3	Specialty/Ethnic Grocery/Deli	CC2a
4	Convenience Store	CC2a
5	Liquor Store	CC2a
6	Retail Bakery	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050d	What type of agricultural facility is this? [READ]	I
1	Commercial Greenhouse	CC2a
2	Commercial Farm	CC2a
3	Dairy/Ranch	CC2a
4	Vineyard/Orchard	CC2a
5	Agricultural Storage (Grain Elevators, etc.)	CC2a
6	Equine Facility (Horse Boarding/Grooming/Racing/Breeding)	CC2a
77	OPEN\Describe type of agricultural facility	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050e	Which of the following types of retail stores best describes this facility? Would you say [READ]	
1	Department / Variety Store	CC2a
2	Retail Warehouse/Club	CC2a
3	Shop in Enclosed Mall	CC2a
4	Shop in Strip Mall	CC2a
7	Such in Suith Ham	CC2a

5	Auto/Truck/Motorcycle Sales	CC2a
6	Art Gallery	CC2a
7	Auction House	CC2a
8	Heavy Equipment Sales	CC2a
9	Facility is a Mall/Strip Mall	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050f	Which of the following types of warehouses best describes this facility? Would you say [READ]	
1	Refrigerated Warehouse	CC2a
2	Unconditioned Warehouse, High Bay (lighting higher than 13 ft.)	CC2a
3	Unconditioned Warehouse, Low Bay	CC2a
4	Conditioned Warehouse, High Bay (lighting higher than 13 ft.)	CC2a
5	Conditioned Warehouse, Low Bay	CC2a
6	Shipping/Distribution Center	CC2a
7	Garage/Parking/Storage for Commercial Fleet	CC2a
8	Public Self-Storage Facility	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050g	Which of the following types of health care centers best describes this facility? Would you say [READ]	
1	Hospital	CC2a
2	Nursing Home	CC2a
3	Medical/Dental Office	CC2a
4	Clinic/Outpatient Care	CC2a
5	Medical/Dental Lab	CC2a
6	Alcohol/Drug Treatment/Rehabilitation	CC2a
7	Doctor's Office	CC2a
8	Dentist's Office	CC2a
9	Veterinary Hospital/Clinic	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050h	Which of the following types of educational centers best describes this facility? Would you say [READ]	
1	Daycare or Preschool	CC2a
2	Elementary School	CC2a
3	Middle / Secondary School	CC2a
4	College or University	CC2a
5	Vocational or Trade School	CC2a
6	Instructional Studio (Dance/Music/Martial Arts)	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a

FM050i	Which of the following types of lodging best describes this fac Would you say [READ]	cility?
1	Hotel	CC2a
2	Motel	CC2a
3	Resort	CC2a
4	Bed and Breakfast	CC2a
5	Campground/Trailer Camping/KOA	CC2a
6	Residential Hotel/Motel	CC2a
7	Dormitory/Sorority/Fraternity	CC2a
8	Activity Camp/Summer Campy	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050j	Which of the following types of public assembly buildings bes describes this facility? Would you say [READ]	
1	Religious Assembly (worship only)	CC2a
2	Religious Assembly (mixed use)	CC2a
3	Health/Fitness Center/Athletic Center/Gym	CC2a
4	Movie Theaters	CC2a
5	Theater / Performing Arts Venue	CC2a
6	Library / Museum	CC2a
7	Conference/Convention Center	CC2a
8	Community Center / Activity Center	CC2a
9	Country Club	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050k	Which of the following types of service buildings best describe facility? Would you say[READ]	
1	Hair Salon	CC2a
2	Nail Salon	CC2a
3	Massage Spa	CC2a
4	Day Spa	CC2a
5	Gas Station / Auto Repair	CC2a
6	Gas Station w/Convenience Store**	CC2a
7	Repair (Non-Auto)	CC2a
8	Copy Center / Printing,	CC2a
9	Package Delivery (Fed Ex / UPS / DHL),	CC2a
10	HVAC Repair Installation,	CC2a
11	Aircraft Maintenance / Repair	CC2a
12	Airport	CC2a
13	Parking Lot / Commuter Service	CC2a
14	Marina	CC2a
15	Amusement (mini-golf/go@-carts/skating/bowling)	CC2a
16	Pet Care / Grooming,	CC2a
17	Car Rental	CC2a

10	C W 1	CC2
18	Car Wash	CC2a
19	Cemetery / Mortuary / Crematorium	CC2a
20	Equipment Rental	CC2a
21	Fleet Fueling Services	CC2a
22	Pest Control	CC2a
23	Photographer	CC2a
24	Vehicle Inspections	CC2a
25	Transportation	CC2a
26	Upholstery	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050l	Which of the following types of buildings best describes this facility? Would you say[READ]	
1	Assembly / Light Manufacturing	CC2a
2	Food Processing Plant	CC2a
3	Recycling Center	CC2a
4	Commercial/Industrial Bakery	CC2a
5	Commercial Brewery / Winery	CC2a
6	Chemical / Petrochemical Production	CC2a
7	Industrial Process	CC2a
8	Radio / Television / Film / Music Production	CC2a
9	Energy Generation / Distribution	CC2a
10	Machine Shop	CC2a
11	Pharmaceutical Production/Manufacturing	CC2a
12	Mail Sorting	CC2a
13	Mining	CC2a
77	OPEN\DO NOT USE unless necessary	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050m	What type of laundry facility is this? [READ]	I
1	Coin Operated	CC2a
2	Commercial Laundry Facility	CC2a
3	Dry Cleaners	CC2a
77	OPEN\Record other building type	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050n	Which of the following types of buildings best describes this facility? Would you say[READ]	
1	Garden Style	CC2a
2	Mobile Home	CC2a
3	High-rise	CC2a
4	Townhouse	CC2a
5	Condominium	CC2a
6	Apartment	CC2a
7	Artists' Studio/Live Work/Loft	CC2a
,	THEORY DESCRIPTION OF OTHER EDUCATION	CC20

8		
<u>_</u>	Assisted Living	CC2a
77	OPEN\Record other building type	CC2a
88	Refused	CC2a
99	Don't know	CC2a
FM050o	Which of the following types of buildings best describes this facility? Would you say[READ]	
1	Police station	CC2a
2	Fire station	CC2a
3	Post office	CC2a
4	Military	CC2a
5	Ambulance Service	CC2a
6	Jail/Correctional facility	CC2a
7	Courthouse	CC2a
8	Library	CC2a
9	Water/Waste Water Treatment	CC2a
10	General Government (Municipal/State/Federal Agency Buildings)	CC2a
11	Public Park	CC2a
77	OPEN\Record other building type	CC2a
88	Refused	CC2a
99	Don't know	CC2a
	CUSTOMER CHARACTERISTICS	
	Now, I'd like to ask you questions regarding your facility.	
CC2a	What is the total square footage at this facility?	
CC2a 77		CC2c
	What is the total square footage at this facility?	CC2c CC3
77	What is the total square footage at this facility? RECORD Square feet	
77 888888	What is the total square footage at this facility? RECORD Square feet Refused	CC3
77 888888	What is the total square footage at this facility? RECORD Square feet Refused Don't know	CC3
77 888888 999999	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99)	CC3
77 888888 999999 CC3	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is?	CC3 CC3
77 888888 999999 CC3 1	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft.	CC3 CC3
77 888888 999999 CC3 1 2	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 10,000 - 25,000 sq. ft.	CC3 CC3 CC2c CC2c
77 888888 999999 CC3 1 2 3	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft.	CC3 CC3 CC2c CC2c CC2c
77 888888 999999 CC3 1 2 3 4	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 10,000 - 25,000 sq. ft.	CC3 CC3 CC2c CC2c CC2c
77 888888 999999 CC3 1 2 3 4 5	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 25,000 - 25,000 sq. ft. 25,000 - 50,000 sq. ft. 50,000 - 75,000 sq. ft. 75,000 - 100,000 sq. ft.	CC3 CC2c CC2c CC2c CC2c CC2c CC2c CC2c
77 888888 999999 CC3 1 2 3 4 5 6	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 10,000 - 25,000 sq. ft. 25,000 - 50,000 sq. ft. 50,000 - 75,000 sq. ft. 75,000 - 100,000 sq. ft. over 100,000 sq. ft. (ag area)	CC3 CC3 CC2c CC2c CC2c CC2c CC2c
77 888888 999999 CC3 1 2 3 4 5 6 7	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 25,000 - 25,000 sq. ft. 25,000 - 50,000 sq. ft. 50,000 - 75,000 sq. ft. 75,000 - 100,000 sq. ft. over 100,000 sq. ft. (ag area) Refused	CC3 CC3 CC2c CC2c CC2c CC2c CC2c CC2c CC
77 888888 999999 CC3 1 2 3 4 5 6 7	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 25,000 - 25,000 sq. ft. 25,000 - 50,000 sq. ft. 50,000 - 75,000 sq. ft. 75,000 - 100,000 sq. ft. over 100,000 sq. ft. (ag area) Refused Don't know	CC3 CC2c CC2c CC2c CC2c CC2c CC2c CC2c C
77 888888 999999 CC3 1 2 3 4 5 6 7 88	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 25,000 - 25,000 sq. ft. 25,000 - 50,000 sq. ft. 50,000 - 75,000 sq. ft. 75,000 - 100,000 sq. ft. over 100,000 sq. ft. (ag area) Refused	CC3 CC2c CC2c CC2c CC2c CC2c CC2c CC2c C
77 888888 999999 CC3 1 2 3 4 5 6 7 88	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 25,000 - 25,000 sq. ft. 25,000 - 50,000 sq. ft. 50,000 - 75,000 sq. ft. 75,000 - 100,000 sq. ft. over 100,000 sq. ft. (ag area) Refused Don't know	CC3 CC3 CC2c CC2c CC2c CC2c CC2c CC2c CC
77 888888 999999 CC3 1 2 3 4 5 6 7 8 8 88 99 CC2c	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 25,000 - 25,000 sq. ft. 25,000 - 50,000 sq. ft. 50,000 - 75,000 sq. ft. 75,000 - 100,000 sq. ft. over 100,000 sq. ft. (ag area) Refused Don't know Is the entire floor area of this facility heated or cooled?	CC3 CC2c CC2c CC2c CC2c CC2c CC2c CC2c C
77 888888 999999 CC3 1 2 3 4 5 6 7 8 8 88 99 CC2c	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 10,000 - 25,000 sq. ft. 25,000 - 50,000 sq. ft. 50,000 - 75,000 sq. ft. 75,000 - 100,000 sq. ft. over 100,000 sq. ft. (ag area) Refused Don't know Is the entire floor area of this facility heated or cooled? Yes	CC3 CC3 CC2c CC2c CC2c CC2c CC2c CC2c CC
77 888888 999999 CC3 1 2 3 4 5 6 7 88 88 99 CC2c 1 2	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 10,000 - 25,000 sq. ft. 25,000 - 50,000 sq. ft. 50,000 - 75,000 sq. ft. 75,000 - 100,000 sq. ft. over 100,000 sq. ft. (ag area) Refused Don't know Is the entire floor area of this facility heated or cooled? Yes No	CC3 CC2c CC2c CC2c CC2c CC2c CC2c CC2c C
77 888888 999999 CC3 1 2 3 4 5 6 7 8 8 88 99 CC2c 1 2 88	What is the total square footage at this facility? RECORD Square feet Refused Don't know IF CC2a IN (88, 99) Would you say that the floor area is? less than 1,500 sq. ft. 1,500 - 5,000 sq. ft. 5,000 - 10,000 sq. ft. 25,000 - 50,000 sq. ft. 25,000 - 50,000 sq. ft. 50,000 - 75,000 sq. ft. 75,000 - 100,000 sq. ft. over 100,000 sq. ft. (ag area) Refused Don't know Is the entire floor area of this facility heated or cooled? Yes No Refused	CC3 CC2c CC2c CC2c CC2c CC2c CC2c CC2c C

101	Refused	
101		C0
102	Don't know	C0
CC2°	If CC2D > 0 or CC2C = 1; Else skip to C0	
CC3a	Is your space heated using electricity or gas?	C0
1	Electricity	C0
2	Gas	
3	Both electricity and gas	C0
4	Propane	C0
5	None	C0
77	OPEN\Other-record	C0
88	Refused	C0
99	Don't know	C0
C0	About what percentage of your operating costs does energy account for?	
1	Less than 1 percent	CC4
2	1-2 percent	CC4
3	3-5 percent	CC4
4	6-10 percent	CC4
5	11-15 percent	CC4
6	16-20 percent	CC4
7	21-50 percent	CC4
8	Over 51 percent	CC4
88	Refused	CC4
99	Don't Know	CC4
CC4	Does your organization own, lease or manage the facility?	
1	Own	C5
2	Lease/Rent	C5
3	Manage	C5
88	Refused	C5
99	Don't know	C5
C5	How many locations does your organization have? Is it	
1	This facility only	CC6
2	2 to 4 locations	CC6
3	5 to 10 locations	CC6
4	11 to 25 locations	CC6
5	more than 25 locations	CC6
88	Don't know	CC6
99	Refused	CC6
	ASK ALL	
CC6	How active a role does your business take in making lighting purchase decisions at this facility? Would you say you are	
1	Very active – involved in all phases and have veto power	CC8
2	Somewhat active – we approve decisions and provide some input and review	CC8
3	Slightly active – we have a voice but it's not the dominant voice	CC8
4	Not active at all – we're part of a larger organization	CC8
		1

5	Or, not active at all – our firm doesn't get involved in these issues	CC8
88	Refused	CC8
99	Don't know	CC8
CC8	In what year was the facility built?	
&YRB	Year	CC11
8888	Refused	CC10
9999	Don't know	CC10
	If CC8 in (88, 99) then Ask; Else skip to CC11;	
CC10	If don't know, would you say it was	
1	After 2000	CC11
2	In the 1990's	CC11
3	1980s	CC11
4	1970s	CC11
5	1960s	CC11
6	1950	CC11
7	Before 1950	CC11
88	Refused	CC11
99	Don't know	CC11
CC11	In what year was this facility last remodeled? [PROBE FOR BEST	1
_	GUESS]	0010
&YRB	Year	CC12a
6666	Never Remodeled	CC12a
8888	Refused	CC11a
9999	Don't know	CC11a
	Ask if CC11 in (88, 99); Else skip to CC12a;	
CC11a	Would you say the last remodeling was done [READ RESPONSES.]	
1	Between 2008 and Present	CC12a
2	Between the years 2000 and 2007	CC12a
3	During the 1990s	CC12a
4	Before the 1990s	CC12a
88	Refused	CC12a
99	Don't know	CC12a
CC12a	In what year was this organization established at this location?	•
&YRB	Year	CC13
8888	Refused	CC12b
9999	Don't know	CC12b
	If CC12a in (88, 99) then ask; else skip to BC090;	•
CC12b	Would you say it was	
1	After 2005	BC090
2	Between 2000 and 2005	BC090
3	In the 1990s	BC090
4	In the 1980s	BC090
5	In the 1970s	BC090
6	In the 1960s or	BC090
7	Before 1960	BC090
<i>'</i>	1	2000

88	Don't know	BC090
99	Refused	BC090
	ADDITIONAL FACILITY CHARACTERISTICS	
Has the square footage of the facility increased, decreased or		
1	remained the same since January 2009? Increase in square footage	BC100
1 2	Decrease in square footage	BC100 BC110
3	Stayed the same	CA15
88	Refused	CA15
99	Don't know	CA15
77	If BC090 = 1 then ask; Else skip to BC110;	CAIS
BC100	How many square feet were added?	
&SQFTA	Square feet Square feet	BC120
88	Refused	BC120
99	Don't know	BC120
	If BC090 = 2 then ask; Else skip to BC120;	1
BC110	By how many square feet was the facility reduced?	
&SQFTR	Square feet	BC120
88	Refused	BC120
99	Don't know	BC120
	If BC090 in (1, 2) then ask; else skip to CA15;	<u>.</u>
BC120	In what year did this change occur? IF DON'T KNOW, ASK BEST GUESS	K FOR
1	2008	CA15
2	2009	CA15
3	2010	CA15
4	2011	CA15
5	2012	CA15
88	Refused	CA15
99	Don't know	CA15
CA15	Over the past 3 years, how would you characterize your organization's business outlook? Would you say it was	
1	Excellent	CA15A
2	Good	CA15A
3	Fair	CA15A
4	Adequate	CA15A
5	Poor	CA15A
88	Refused	CA15A
99	Don't know	CA15A
CA15A	Projecting over the NEXT 3 years, how would you characteri business outlook? Would you say	ze your
1	Excellent	FM070
2	Good	FM070
3	Fair	FM070
4	Adequate	FM070
5	Poor	FM070

6	DO NOT READgoing out of business	FM070
88	Refused	FM070
99	Don't know	FM070
FM070	How many people are currently working at the facility, including both full and part time? (IF DON'T KNOW ASK FOR BEST GUESS)	111070
1	Ten or less	FM080
2	Between 11 and 25	FM080
3	26 to 50	FM080
4	51 to 75	FM080
5	76 to 100	FM080
6	101 to 250	FM080
7	251 to 500	FM080
8	501 to 1000	FM080
9	1001 to 2500	FM080
10	2501 to 5000	FM080
11	5000 or more	FM080
88	Refused	FM080
99	Don't know	FM080
FM080	Since January 2009 has the number of people working at this facility changed by more than 10%?	
1	Yes	FM081
2	No	PC010
88	Refused	PC010
99	Don't know	PC010
FM081	If FM080 = 1 then ask; Else skip to PC010; Would these changes have increased or decreased number of employees?	
1	Increased number of employees	FM100
2	Decreased number of employees	PC010
88	Refused	FM100
99	Don't know	FM100
FM100	If FM081 in (1, 88, 99) then ask; else skip to PC010; In 2008 approximately how many people were working at this facility, including both full- or part-time employees? (IF DON'T KNOW ASK FOR BEST GUESS)	
&NUM03	Number of people	PC010
888	Refused	PC010
999	Don't know	PC010
PC010	Thinking back to 2008, were any changes made to the facility during 2008 that would change the energy consumption by more than 10%?	
1	Yes	PC020
2	No	V1
88	Refused	V1
99	Don't know	V1
	1	•

If PC010 = 1 then ask; Else skip to V1;

PC020	Would these changes have increased or decreased consumption?
-------	--

1	Increased	V1
2	Decreased	V1
88	Refused	V1
99	Don't know	V1

ROLE OF CONTRACTORS

Did you use a contractor/vendor to install the lighting measures that were

V1 installed through the 2010-2012 &PROGRAM Progr	ram?
---	------

1	Yes	V2
2	No	AP9
88	Refused	AP9
99	[DO NOT READ] Don't know/No Answer	AP9

If V1 = 1 then ask; Else skip to AP9;

V2 How did you come into contact with the contractor/vendor?

1	They contacted you	V2b
2	You contacted them	V3
3	You had worked with them before	V2a
77	OTHER - Record	V3
88	Refused	V3
99	[DO NOT READ] Don't know/No Answer	V3

Ask if V2 = 3; Else skip to V2b

V2a In relation to this project, did the vendor/contractor approach you about your lighting installation?

1	Yes	V2b
2	No	V3
88	Refused	V3
99	[DO NOT READ] Don't know/No Answer	V3

Ask if V2 = 1 or V2a = 1; Else skip to V3

On a scale of 0 - 10, with 0 being NOT AT ALL LIKELY and 10 is VERY LIKELY, how likely is it that your organization would have installed this

V2b new lighting equipment had the contractor/vendor not contacted you?

1	0-10 response	V3
88	Refused	V3
99	Don't know/No Answer	V3
V3	Did the contractor/vendor tell you about or recommend the program?	

1	Yes	V4
2	No	AP9
88	Refused	AP9
99	Don't know/No Answer	AP9

Prior to coming into contact with the contractor/vendor, did you organization have plans to replace/install lighting equipment?

1	Yes	V4a
2	No	V4a
88	Refused	V4a
99	[DO NOT READ] Don't know/No Answer	V4a

Using the same scale of 0 - 10 as before, how likely is it that your organization would have installed lighting equipment had the

V4a contractor/vendor not recommended it?

1	1 0-10 response	
88	Refused	V4b
99	[DO NOT READ] Don't know/No Answer	V4b

How likely is it that your organization would have installed lighting equipment with the same level of efficiency if the contractor/vendor had not

V4b recommended to do so?

1	0-10 response	V40
88	Refused	V40
99	[DO NOT READ] Don't know/No Answer	V40

On a scale of 0 - 10, with 0 being very unlikely and 10 being very likely. How important was the input from the contractor you worked with in

V40 deciding which specific equipment to install? Was it ...

1	0-10 response	AP9
88	Refused	AP9
99	Don't know	AP9

PROGRAM AWARENESS

Next, I'd like to ask you about various energy efficiency programs and what influenced your program participation.

How did you FIRST learn about <&UTILITY>'s <&PROGRAM> program?

AP9 [DO NOT READ]

1	Bill insert	AP9a
2	Program Literature	AP9a
3	Account representative	AP9a
4	Program Approved vendor	AP9a
5	Program representative	AP9a
6	Utility or program website	AP9a
7	Trade publication	AP9a
8	Conference	AP9a
9	Newspaper article	AP9a
10	Word of mouth	AP9a
11	Previous experience with it	AP9a
12	Company used it at other locations	AP9a
13	Contractor	AP9a
14	Result of an audit	AP9a
15	Part of a larger expansion or remodeling effort	AP9a
77	Other (RECORD VERBATIM)	AP9a
88	Refused	A1b
99	Don't know	A1b

If AP9 in (1-77) then ask; Else skip to A1b;

How ELSE did you learn about &UTILITY's program? [DO NOT READ

AP9a LIST, ACCEPT MULTIPLES]

1	Bill insert	N33
2	Program Literature	N33
3	Account representative	N33

4	Program Approved vendor	N33
5	Program representative	N33
6	Utility or program website	N33
7	Trade publication	N33
8	Conference	N33
9	Newspaper article	N33
10	Word of mouth	N33
11	Previous experience with it	N33
12	Company used it at other locations	N33
13	Contractor	N33
14	Result of an audit	N33
15	Part of a larger expansion or remodeling effort	N33
77	Other (RECORD VERBATIM)	N33
88	Refused	N33
99	Don't know	N33

If AP9 = 3 or AP9A = 3 then ask; Else skip to A1b;

You mentioned that you have a Utility Account Rep.

Can you give me his or her name?

- !!___Do you have his/her email address?
- !___Do you have a phone number for him/her?
- N33 !___Do you have a cell phone number for him/her?\,

77	RECORD NAME, Phone, Email ETC	
88	Refused	A1b
99	Don't know	A1b

INTEGRATED DEMAND SIDE MANAGEMENT

IF AUDIT = 1; THEN ASK ELSE ID0.

According to our records, your organization also received an AUDIT from

A1b <&UTILITY>. Is this correct?

1	Yes	ID0
2	No	ID0
88	Refused	ID0
99	Don't know	ID0

If AUDIT <> 1

ID0 To the best of your knowledge, has the facility located at this address received a <&UTILITY>-sponsored energy audit within the past 3 years?

1	Yes	A1c
2	No	A1c
88	Refused	A1c
99	Don't Know	A1c

IF TECH_ASST = 1, THEN ASK, ELSE A1d

According to our records, your organization received TECHNICAL

A1c ASSISTANCE from <&UTILITY>. Is this correct?

1	Yes	A1d
2	No	A1d
88	Refused	A1d
99	Don't know	A1d

IF FEAS_STUDY = 1, THEN ASK, ELSE A1e

According to our records, your organization received a FEASABILITY

A1d	STUDY from	<&UTILITY>	Is this correct?
AIU		$\times \alpha \cup \cup \cup \cup \cup \cup \cup$.	is uns correct.

1	Yes	A1e
2	No	A1e
88	Refused	A1e
99	Don't know	A1e

IF RCX = 1, THEN ASK, ELSE A1f

According to our records, your organization received

A1e RETROCOMMISSIONING from <&UTILITY>. Is this correct?

1	Yes	A1f
2	No	A1f
88	Refused	A1f
99	Don't know	A1f

IF PTRAIN = 1, THEN ASK. ELSE ASK ID1

According to our records, your organization also received PROGRAM

A1f TRAINING from <&UTILITY>. Is this correct?

1	Yes	ID1
2	No	ID1
88	Refused	ID1
99	Don't know	ID1

Are you aware of other programs, other than the one we mentioned earlier, **ID1** or resources that are designed to help organizations like yours reduce its energy bills?

1	Yes	ID2
2	No	ID3
88	Refused	ID3
99	Don't Know	ID3

If ID1 = 1 then ask; Else ID3;

What types of programs can you recall? [RECORD ALL MENTIONS]
[After each response prompt with "Can you recall any others?"]

1	Rebates/incentives (include mentions of SPC and Express)	ID3
2	Building Commissioning (Retrocommissioning, Monitoring based commissioning)	ID3
3	Business energy audits and feasibility studies	ID3
4	Energy Centers (Pacific Energy Center, SCE CTAC)	ID3
5	Seminars, classes, and workshops	ID3
6	Solar or other Distributed Generation Programs (CSI, SGIP)	ID3
7	Demand Response Programs (Flex Your Power, Peak Choice, BIP, DBP, Aggregator, PDP) ID3	ID3
8	Upstream HVAC and Motors Program	ID3
77	Other programs [SPECIFY:]	ID3
88	Refused	ID3
99	Don't Know	ID3

Has your Account Representative, or any Program Staff or Program Vendors ID3 discussed solar, wind or other self-generation equipment opportunities with

you?

	•	
1	Yes, Account Representative	ID3a

2	Yes, Program Staff	ID3a
3	Yes, Program Vendor	ID3a
4	No	ID3a
88	Refused	ID3a
99	Don't Know	ID3a

Has your Account Representative, Program Staff, or Program Vendors

ID3a discussed Demand Reduction programs, technologies, or opportunities with you? (Select all that apply)

1	Yes, Account Representative	LI1
2	Yes, Program Staff	LI1
3	Yes, Program Vendor	LI1
4	No	LI1
88	Don't Know	LI1
99	Refused	LI1

EXISTING LIGHTING EQUIPMENT BATTERY

In this next section, we will be discussing the existing lighting equipment at your facility which was not RETROFITTED AS PART OF THE PROGRAM and has not been RETROFITTED OR INSTALLED BY YOU SINCE JANUARY 2010 outside of the program.

What are the primary types of lighting used at your facility that was not retrofitted through the program or by you personally since January 2010?

1	High Performance T8	LI1a
2	T8 fluorescent fixtures (1" diameter bulbs)	LI1a
3	T10 fluorescent fixtures	LI1a
4	T12 Fixtures (1.5" diameter bulbs)	LI1a
5	T5 Fixtures (5/8" diameter)	LI1a
6	Compact HID (High Intensity Discharge) Fixtures	LI1a
7	Screw-in Modular CFL bulbs	LI1a
8	Hardwired CFL fixtures	LI1a
9	Incandescent	LI1a
10	Other Fluorescent	LI1a
11	Fat/Thick Tubes	LI1a
12	Skinny/Thin Tubes	LI1a
13	LEDs (lamps, reflector lamps or fixtures - NOT exit signs)	LI1a
77	Other (PLEASE SPECIFY)	LI1a
88	Refused	LI1a
99	Don't know	LI1a

Which, if any, of the following automatic lighting controls are used on this older equipment?

LI1a older equipment?

1	Timers	LI3
2	Occupancy sensors	LI3
3	Photocells	LI3
66	NONE - NO AUTOMATIC LIGHTING CONTROLS	LI3
77	OPEN\Some other form of lighting controls-describe	LI3
88	Refused	LI3

99	Don't	know	LI3
LI3	How of Remer	old would you estimate this pre-retrofit lighting equipment to mber, we are asking about the lighting equipment in use befo tted either through the program or you retrofitted on your ow y 2010. Would you say the majority of it is	re you
1		nan 5 years old	LI4
2		en 5 and 10 years old	LI4
3	-	en10 and 15 years old	LI4
4	-	than 15 years old	LI4
88	Refuse		LI4
99	Don't	know	LI4
LI4		ow would you describe the condition of this lighting equipment you say it is	ent?
1	In poo	r condition	LI6
2	Fair co	ondition	LI6
3		condition	LI6
88	Refuse		LI6
99	Don't		LI6
LI6	,	u currently have any plans to retrofit your old lighting equip	
1	Yes		LI99
2	No		LI99
88	Refuse		LI99
99	Don't	know	LI99
		PROGRAM LIGHTING EQUIPMENT BATTERY	
Сог	nment	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in	LI99
Cor	nment	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting	LI99
Cor		One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <%UTILITY>'s <%PROGRAM> Program. Continue if Custom = 1; Else skip to A3a if Deemed = 1; Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct? Yes	LI100
Cor	LI99	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <%UTILITY>'s <%PROGRAM> Program. Continue if Custom = 1; Else skip to A3a if Deemed = 1; Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct?	
Сог	LI99 1 2 88	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <%UTILITY>'s <%PROGRAM> Program. Continue if Custom = 1; Else skip to A3a if Deemed = 1; Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct? Yes No Refused	LI100 A3a A3a
Cor	LI99 1 2	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <%UTILITY>'s <%PROGRAM> Program. Continue if Custom = 1; Else skip to A3a if Deemed = 1; Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct? Yes No Refused Don't know	LI100 A3a
	LI99 1 2 88 99 LI100	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <%UTILITY>'s <%PROGRAM> Program. Continue if Custom = 1; Else skip to A3a if Deemed = 1; Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct? Yes No Refused Don't know What types of fixtures, ballasts or light controls were installed as part of this lighting installation?	LI100 A3a A3a A3a
	LI99 1 2 88 99 LI100	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <%UTILITY>'s <%PROGRAM> Program. Continue if Custom = 1; Else skip to A3a if Deemed = 1; Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct? Yes No Refused Don't know What types of fixtures, ballasts or light controls were installed as part of this lighting installation? High performance T8 (1" diameter bulbs)	LI100 A3a A3a A3a LI101A
	LI99 1 2 88 99 LI100 1 2	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <%UTILITY>'s <%PROGRAM> Program. Continue if Custom = 1; Else skip to A3a if Deemed = 1; Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct? Yes No Refused Don't know What types of fixtures, ballasts or light controls were installed as part of this lighting installation? High performance T8 (1" diameter bulbs) T8 fluorescent fixtures (1" diameter bulbs)	LI100 A3a A3a A3a LI101A LI101A
	LI99 1 2 88 99 LI100 1 2 3	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <% UTILITY>'s <% PROGRAM> Program. Continue if Custom = 1; Else skip to A3a if Deemed = 1; Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct? Yes No Refused Don't know What types of fixtures, ballasts or light controls were installed as part of this lighting installation? High performance T8 (1" diameter bulbs) T8 fluorescent fixtures (1" diameter bulbs)	LI100 A3a A3a A3a A3a LI101A LI101A
	LI99 1 2 88 99 LI100 1 2 3 4	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <%UTILITY>'s <%PROGRAM> Program. Continue if Custom = 1; Else skip to A3a if Deemed = 1; Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct? Yes No Refused Don't know What types of fixtures, ballasts or light controls were installed as part of this lighting installation? High performance T8 (1" diameter bulbs) T8 fluorescent fixtures (1" diameter bulbs) T10 fluorescent fixtures HID (High Density Discharge) Fixtures, Compact	LI100 A3a A3a A3a LI101A LI101A LI101A LI101A
	LI99 1 2 88 99 LI100 1 2 3	One way that organizations like yours can reduce their energy use is to install more energy efficient lighting equipment. We would like to ask you about the lighting changes you made as part of your participation in <% UTILITY>'s <% PROGRAM> Program. Continue if Custom = 1; Else skip to A3a if Deemed = 1; Our records indicate that your organization installed CUSTOM LIGHTING EQUIPMENT through the &Program in our database, it is described as &CUSTOM _MEASURE. Is this correct? Yes No Refused Don't know What types of fixtures, ballasts or light controls were installed as part of this lighting installation? High performance T8 (1" diameter bulbs) T8 fluorescent fixtures (1" diameter bulbs)	LI100 A3a A3a A3a A3a LI101A LI101A

7	E-it Ciana Campact Eleganosant	T T101 A
7	Exit Signs, Compact Fluorescent	LI101A
8	Exit Signs, LED	LI101A
9	Halogen	LI101A
10	Installed Reflectors	LI101A
11	Electronic Ballast	LI101A
12	Lighting Controls, Time Clock	LI101A
13	Lighting Controls, Occupancy Sensor	LI101A
14	Lighting Controls, Bypass/Delay Timers	LI101A
15	Lighting Controls, Photocell	LI101A
16	Other Fluorescent	LI101A
17	Skinny/Thin Tubes	LI101A
18	T5 Fixtures (5/8" diameter)	LI101A
19	Screw-in LEDs	LI101A
20	Screw-in LEDs Reflector Lamps	LI101A
21	LED Fixtures or Panels (e.g., replacement for linear	LI101A
	fixtures)	
77	Other (PLEASE SPECIFY)	LI101A
	START MACRO FOR CUSTOM MEASURES	
	Approximately how many &LI100/&Prgm_LT1_Desc	
LI101A	were installed through the &Program?	
77	Record #	LI101C
8888	Refused	LI101B
9999	Don't know	LI101B
	IF LI101A IN (88, 99) the ask; Else skip to LI101c;	
1 1101D	Would you say that the number of	
LI101B	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program	
	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are	LHOIC
1	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units	LI101C
1 2	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units	LI101C
1 2 3	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units	LI101C LI101C
1 2 3 4	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units	LI101C LI101C LI101C
1 2 3 4 88	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused	LI101C LI101C LI101C LI101C
1 2 3 4	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know	LI101C LI101C LI101C
1 2 3 4 88	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc	LI101C LI101C LI101C LI101C
1 2 3 4 88	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know	LI101C LI101C LI101C LI101C
1 2 3 4 88 99	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what	LI101C LI101C LI101C LI101C
1 2 3 4 88 99	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what percentage would you estimate?	LI101C LI101C LI101C LI101C LI101C
1 2 3 4 88 99 LI101C	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what percentage would you estimate? Yes, #record percentage	LI101C LI101C LI101C LI101C LI101C LI101D
1 2 3 4 88 99 LI101C 1 2	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what percentage would you estimate? Yes, #record percentage No	LI101C LI101C LI101C LI101C LI101C LI101D LI101D
1 2 3 4 88 99 LI101C 1 2 101	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what percentage would you estimate? Yes, #record percentage No Refused	LI101C LI101C LI101C LI101C LI101C LI101D LI101D LI101D
1 2 3 4 88 99 LI101C 1 2 101 102	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what percentage would you estimate? Yes, #record percentage No Refused Don't know What type of lighting equipment was removed and replaced when you installed &Prgm_LT1_Desc through	LI101C LI101C LI101C LI101C LI101C LI101D LI101D LI101D
1 2 3 4 88 99 LI101C 1 2 101	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what percentage would you estimate? Yes, #record percentage No Refused Don't know What type of lighting equipment was removed and replaced when you installed &Prgm_LT1_Desc through the &Program?	LI101C LI101C LI101C LI101C LI101C LI101D LI101D LI101D LI101D
1 2 3 4 88 99 LI101C 1 2 101 102	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what percentage would you estimate? Yes, #record percentage No Refused Don't know What type of lighting equipment was removed and replaced when you installed &Prgm_LT1_Desc through the &Program? High performance T8 (1" diameter bulbs)	LI101C LI101C LI101C LI101C LI101C LI101D LI101D LI101D LI101D LI101D
1 2 3 4 88 99 LI101C 1 2 101 102 LI101D 2	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what percentage would you estimate? Yes, #record percentage No Refused Don't know What type of lighting equipment was removed and replaced when you installed &Prgm_LT1_Desc through the &Program? High performance T8 (1" diameter bulbs) T8 fluorescent fixtures (1" diameter bulbs)	LI101C LI101C LI101C LI101C LI101C LI101D LI101D LI101D LI101D LI101F LI101F
1 2 3 4 88 99 LI101C 1 2 101 102	Would you say that the number of &LI100/&Prgm_LT1_Desc installed under the program are less than 10 units 11 - 50 units 50 - 100 units More than 100 units Refused Don't know Were any of the program provided &Prgm_LT1_Desc placed/installed at another facility? If so, what percentage would you estimate? Yes, #record percentage No Refused Don't know What type of lighting equipment was removed and replaced when you installed &Prgm_LT1_Desc through the &Program? High performance T8 (1" diameter bulbs)	LI101C LI101C LI101C LI101C LI101C LI101D LI101D LI101D LI101D LI101D

	HID (II' 1 D. 's D' 1) F' (C.)	THOIF
5	HID (High Density Discharge) Fixtures, Compact	LI101E
6	Compact Fluorescent, Screw-in Modular	LI101F
7	Compact Fluorescent, Hardwire	LI101F
8	Incandescent	LI101F
9	Exit Signs, Compact Fluorescent	LI101F
10	Exit Signs, LED	LI101F
11	Halogen	LI101F
12	Reflectors	LI101F
13	Electronic Ballast	LI101F
14	Magnetic Ballast	LI101F
15	Manual Switches	LI101F
16	Lighting Controls, Time Clock	LI101F
17	Lighting Controls, Occupancy Sensor	LI101F
18	Lighting Controls, Bypass/Delay Timers	LI101F
19	Lighting Controls, Photocell	LI101F
20	Other Fluorescent	LI101F
21	Fat/Thick Tubes	LI101F
22	Skinny/Thin Tubes	LI101F
23	T5 Fixtures (5/8" diameter)	LI101F
24	Screw-in LEDs	LI101F
25	Screw-in LEDs Reflector Lamps	LI101F
26	LED Fixtures or Panels (e.g., replacement for linear	LI101F
	fixtures)	
66	Did not replace anything - new equipment	LI90
77	Other (PLEASE SPECIFY)	LI101F
	ASK IF LI101D = 5; else skip to LI101F;	
	Were the HID lamps you removed High Pressure	
LI101E	Sodium, Metal Halide, Mercury Vapor or Incandescent?	
1	High pressure sodium	LI101F
2	Metal Halide	LI101F
3	Mercury Vapor	LI101F
4	Incandescent	LI101F
88	Refused	LI101F
99	Don't know	LI101F
	Approximately how old were the lighting that was	
LI101F	removed and replaced with &Prgm_LT1_Desc? Would you say	
1	Less than 5 years old	LI101G
2	Between 5 and 10 years old	LI101G
3	Between 10 and 15 years old	LI101G
4	More than 15 years old	LI101G
88	Refused	LI101G
99	Don't know	LI101G
	How would you describe the removed equipment's	
LI101G	condition? Would you say there were in	
1	Poor condition	LI101H

Fair condition

LI101H

2	Condition	1.110111
3	Good condition	LI101H
88	Refused	LI101H
99	Don't know	LI101H
	Approximately what percentage of the lighting equipment that was <i>removed</i> and replaced was broken	
LI101H	or not working prior to installing &Prgm_LT1_Desc?	
%	Percent	LI90
101	Refused	LI90
102	Don't know	LI90
102	END MACRO	2250
	Ask only for CFL_flag = 1 or LI100 = 5	
	Of the CFLs you received through the program, what	
	percentage do you estimate were placed into storage for	
LI90	later use?	
77	Open Record	CUST_INSTALL_DATE_NU
88	Refused	CUST_INSTALL_DATE_NU
99	Don't know	CUST_INSTALL_DATE_NU
	ASK if CUST_INSTALL_DATE <> Null	
CHICAL INCALL	Our records indicate that your company installed this	
CUST_INSTALL_ DATE_NU	CUSTOM LIGHTING EQUIPMENT on <% CUSTOM_INSTALL_DATE>. Is this correct?	
1	Yes	A3
2	No No	CUST_INSTALL_YEAR
88	Refused	CUST_INSTALL_YEAR
99	Don't know	CUST_INSTALL_YEAR
	ASK IF CUST_INSTALL_DATE = NULL	COST_INSTALL_TEAK
CUST_INSTALL_	In what year did you install this CUSTOM LIGHTING	
YEAR	EQUIPMENT (PROBE FOR BEST GUESS)	
1	2009	CUST_INSTALL_MONTH
2	2010	CUST_INSTALL_MONTH
3	2011	CUST_INSTALL_MONTH
88	Refused	NTGBATTERY
99	Don't know	NTGBATTERY
	If CUST_INSTALL_MONTH in (1, 2, 3) then ask;	
	Else skip to A3;	
CUST_INSTALL_	And in which Month. If you don't know the MONTH,	
MONTH	could you remember the SEASON?	NITCO ATTERNA
1	January	NTGBATTERY
2	February	NTGBATTERY
3	March	NTGBATTERY
4	April	NTGBATTERY
5	May	NTGBATTERY NTGBATTERY
7	June	NTGBATTERY
	July	NTGBATTERY
8	August	NTGBATTERY
	September	
10		1 N/1/2 1D A/1*11/13 X/
10	October November	NTGBATTERY NTGBATTERY

12	December	NTGBATTERY
13	Fall	NTGBATTERY
14	Winter	NTGBATTERY
15	Spring	NTGBATTERY
16	Summer	NTGBATTERY
88	Refused	NTGBATTERY
99	Don't know	NTGBATTERY

NTGBATTERY GO TO CUSTOM NTG BATTERY START LOOP DEEMED MEASURES, ELSE SKIP

TO LI30

According to our records, your organization installed/delamped &Quantity &Prgm_LT1_Desc through <UTILITY>'s &Program, is this correct? [IF NEEDED: delamping occurs when you retrofit your T12s to T8s and reduce the number of lamps in a fixture

A3[A-C] or simply reduce the number of fixtures]

		DEEMED_INSTALL_DATE
1	Yes - Quantity is Correct	_NU
2	Yes - Installed Different Quantity	A3_QTY
3	No, did not install	SKIP CHECK
88	Refused	SKIP CHECK
99	Don't know	SKIP CHECK

If A3[A-C](3 - 99), READ: "We must conduct this study with someone that knows about the installation of this measure."

ABANDONED USER30

If A3 = 2 or missing Qty; else skip to DEEM_INSTALL_DATE_NU

Approximately how many &LI100/&Prgm_LT1_Desc

A3[A-C]_QTY were installed/delamped under the &Program?

		DEEMED_INSTALL_DATE
77	Record #	_NU
8888	Refused	A3_OTH
9999	Don't know	A3_OTH

IF A3_QTY IN (88, 99)

A3[A-C]_OTH Would you say that the number of &LI100/&Prgm_LT1_Desc installed/delamped was?

1	less than 10 units	DEEMED_INSTALL_DATE _NU
2	11 - 50 units	DEEMED_INSTALL_DATE _NU
3	50 - 100 units	DEEMED_INSTALL_DATE _NU
4	More than 100 units	DEEMED_INSTALL_DATE _NU
88	Refused	DEEMED_INSTALL_DATE _NU

99	Don't know	DEEMED_INSTALL_DATE _NU
	ASK if DEEM_INSTALL_DATE[1-2] <> Null	
	Our records indicate that your company installed the	
DEEM_INSTALL_	lighting equipment in &Install_MONTH	
DATE_NU	&Install_YEAR through &Program, is this correct?	
1	Yes	LI18
2	No	DEEM_INSTALL_YEAR
88	Refused	DEEM_INSTALL_YEAR
99	Don't know	DEEM_INSTALL_YEAR
	Read if DEEM_PAID_DATE[1-3] <> Null and DEEM_INSTALL_DATE[1-3] = Null or LI9d = 2	
	According to our records, your organization received a	
	rebate for the <(M1Delamp==	
	0)/installation/delamping> of<%LTMEAS1> on <%DEEM_PAID_DATE1>.	
DEEM_INSTALL_	In what year did you install/delamp & Prgm_LT1_Desc?	
YEAR	(PROBE FOR BEST GUESS)	
1	2009	DEEM_INSTALL_MONTH
2	2010	DEEM_INSTALL_MONTH
3	2011	DEEM_INSTALL_MONTH
88	Refused	LI18
99	Don't know	LI18
DEEM_INSTALL_ MONTH	And what month? {If they cannot recall month, try to get the season.}	
1	January	LI18
2	February	LI18
3	March	LI18
4	April	LI18
5	May	LI18
6	June	LI18
7	July	LI18
8	August	LI18
9	September	LI18
10	October	LI18
11	November	LI18
12	December	LI18
13	Fall	LI18
14	Winter	LI18
15	Spring	LI18
16	Summer	LI18
88	Refused	LI18
99	Don't know	LI18
	Ask only for CFL = 1; else skip to LI19	
	Of the CFLs you received through the program, what	
T T40F4 - C7	percentage do you estimate were placed into storage for	
LI18[A-C]	later use?	1.110
	Open Record	LI19

101		Y 74.0
101	Refused	LI19
102	Don't know	LI19
	If A3 in (1-2); Else skip to LI30;	
	Were any of the program provided &Prgm_LT1_Desc installed/delamped at another facility? If so, what	
LI19[A-C]	percentage would you estimate?	
1	Yes, #record percentage	LI20
2	No	LI20
88	Refused	LI20
99	Don't know	LI20
	IF NOT M[1-3]DELAMP = 1 ask; Else skip to end of DEEMED MEASURE LOOP;	
	What type of lighting was removed and replaced when	
LI20[A-C]	you installed <MEAS[1-3] through the &Program?	
1	High performance T8 (1" diameter bulbs)	LI22
2	T8 fluorescent fixtures (1" diameter bulbs)	LI22
3	T10 fluorescent fixtures	LI22
4	T12 Fixtures (1.5" diameter bulbs)	LI22
5	HID (High Density Discharge) Fixtures, Compact	LI21
6	Compact Fluorescent, Screw-in Modular	LI22
7	Compact Fluorescent, Hardwire	LI22
8	Incandescent	LI22
9	Exit Signs, Compact Fluorescent	LI22
10	Exit Signs, LED	LI22
11	Halogen	LI22
12	Install Reflectors	LI22
13	Electronic Ballast	LI22
14	Magnetic Ballast	LI22
15	Manual Switches	LI22
16	Lighting Controls, Time Clock	LI22
17	Lighting Controls, Occupancy Sensor	LI22
18	Lighting Controls, Bypass/Delay Timers	LI22
19	Lighting Controls, Photocell	LI22
20	Other Fluorescent	LI22
21	Fat/Thick Tubes	LI22
22 23	Skinny/Thin Tubes T5 Fixtures (5/8" diameter)	LI22
23	Screw-in LEDs	LI22 LI122
25	Screw-in LEDs Screw-in LEDs Reflector Lamps	LI122
26	LED Fixtures or Panels (e.g., replacement for linear	
20	fixtures)	LI122
66	ADDON_NEW	SKIP CHECK
77	Other (PLEASE SPECIFY)	LI22
	ASK IF LI20 = 5; Else skip to LI22;	
T TAJE 1 000	Were the HID lamps you removed High Pressure	
LI21[A-C]	Sodium, Metal Halide, Mercury Vapor or Incandescent?	1 100
1	High pressure sodium	LI22

2	Metal Halide	LI22
3	Mercury Vapor	LI22
4	Incandescent	LI22
	Refused	LI22 LI22
88	Don't know	
99		LI22
	If LI20^= 66 then ask; Else skip to End of DEEMED Loop;	
	Approximately how old was the equipment that were	
	removed and replaced with &Prgm_LT1_Desc? Would	
LI22[A-C]	you say	
1	Less than 5 years old	LI23
2	Between 5 and 10 years old	LI23
3	Between 10 and 15 years old	LI23
4	More than 15 years old	LI23
88	Refused	LI23
99	Don't know	LI23
	How would you describe the condition of the lighting	
	equipment that was removed and replaced as a result of	
	the installation of &Prgm_LT1_Desc? Would you say	
LI23[A-C]	it was	
1	In poor condition	LI24
2	Fair condition, or	LI24
3	Good condition	LI24
88	Refused	LI24
99	Don't know	LI24
	Approximately what percentage of the lighting	
T TO 45 A CO	equipment that was <i>removed</i> and replaced was broken	
LI24[A-C]	or not working prior to installing &Prgm_LT1_Desc?	GVID GVIDGV
%	Percent	SKIP CHECK
88	Refused	SKIP CHECK
99	Don't know	SKIP CHECK
	GO TO DEEMED NTG BATTERY AND RETURN	
SKIP CHECK	TO A3B IF NEEDED, THEN A3C IF NEEDED. ONCE LOOPS ARE COMPLETE, GO TO LI30	
	HIGH BAY AND DELAMPING	
	Considering all of the lighting changes we just discussed, approximately what percentage of the	
LI30	facility's lighting was affected by those changes?	
%	Percent	HB1
101	Refused	HB1
102	Don't know	HB1
	If Linear = 1 or LI100 in (1, 2, 3, 16, 17, 18, 77); else	l
	skip to HB1a	
	Thinking about all of the types of linear fluorescent	
	bulbs that were installed through the program, what is	
HB1	the highest height above the area they light? [IN FEET]	T
1	Record #	HB2
66	They Did not install any Linears	HB1a
	1 2	

		T TYP 6
88	Refused	HB2
99	Don't know	HB2
	IF HB1 < 13 then ask; else skip to HB3;	
	Just to double check, was any of the linear fluorescent	
	lighting installed through the program at a height of 13 or more feet above the area it is meant to light? This	
HB2	would qualify as HIGH BAY lighting.	
1	Yes	НВ3
2	No	HB1a
88	Refused	HB1a
99	Don't know	HB1a
	Ask if HB1 > 13, but not 66, 88, 99 or HB2 = 1 else	
	skip to HB1a	
	What is the main kind of linear bulbs located at this	
HB3	height?	<u>, </u>
1	T8s	HB1a
2	T5s	HB1a
77	OPEN\RECORD OTHER	HB1a
88	Refused	HB1a
99	Don't know	HB1a
	Ask if Non_Linear = 1 or LI100 in (4, 5, 6, 9, 77);	
	else skip to DEL1;	
	Other than linear fluorescents, is any of the lighting	
HB1a	installed through the program considered to be High Bay? (If needed, lighting higher than 13 ft.)	
1	Yes	HB2a
2	No	DEL1
88	Refused	DEL1
99	Don't know	DEL1
	Ask if HB1a=1 else skip to DEL1	5 22.
HB2a	What kind of High Bay Lighting is it?	
1	HID (High-intensity discharge)	DEL1
2	Mercury Vapor	DEL1
3	CFLs	DEL1
77	OPEN\RECORD OTHER	DEL1
88	Refused	DEL1
99	Don't know	DEL1
	Ask if DELAMP = 1; else skip to DEL1a;	
	We also show that you delamped linear fluorescent	
	fixtures. Is this correct? (If needed: delamping occurs	
	when you retrofit your T12s to T8s and reduce the	
DEL1	number of lamps in a fixture or simply reduce the number of fixtures.)	
1	Yes	DEL2
2	No No	L_MSP1
88	Refused	L_MSP1
99	Don't know	L_MSP1
] 99	DOILT KIIOW	L_M9L1

Ask if DELAMP ^= 1 and Linear = 1 and M1Delamp ^= 1 and M2Delamp ^= 1 and M3Delamp ^= 1 OR LI100(1-3, 16-18, 77);

As part of the retrofit you had done during your participation in &PROGRAM program did you have any delamping done? (If needed: delamping occurs when you retrofit your T12s to T8s and reduce the number of lamps in a fixture or simply reduce the

DEL1a number of fixtures.)

1	Yes	DEL2
2	No	L_MSP1
88	Refused	L_MSP1
99	Don't know	L_MSP1

Ask if DEL1 = 1 or DEL1a = 1 or (M1Delamp = 1 and A3A in (1,2)) or (M2Delamp = 1 and A3B in (1,2)) or (M3Delamp = 1 and A3C in (1,2))

There are a few different types of delamping that can take place. Today we will be asking about 3 types in particular. One type of delamping occurs when fixtures are simply removed (removal only). Another type of delamping occurs when the fixtures themselves are removed and replaced with new fixtures containing less bulbs (remove and replace fixtures). The final type is where the current fixtures are retrofitted, not replaced, to accommodate less bulbs (reduce # of bulbs).

Have you had Removal only Delamping done within

DEL2 your facility since 2009?

1	Yes	DEL2a
2	No	DEL3
88	Refused	DEL3
99	Don't know	DEL3

If DEL2 = 1 then ask; else skip to DEL3;

What percent of the original fixtures within the

DEL2a retrofitted area were removed?

77	Open Record	DEL3
88	Refused	DEL3
99	Don't know	DEL3

Have you had Remove and Replace Delamping done within your facility since 2009? Remove and Replace occurs when the fixtures themselves are removed and

DEL3 replaced with new fixtures containing less bulbs.

1	Yes	DEL3a
2	No	DEL4
88	Refused	DEL4
99	Don't know	DEL4

If DEL3 = 1 then ask; else skip to DEL4;

DEL3a What type of fixtures were removed?

77	Open Record	DEL3b
88	Refused	DEL3b
99	Don't know	DEL3b

DEL3b	What type of fixtures were installed?	
77	Open Record	DEL3c
88	Refused	DEL3c
99	Don't know	DEL3c
DEL3c	How many lamps per fixture were present prior to the delamping retrofit?[PROBE FOR BEST GUESS IF DON'T KNOW]	,
1	1	DEL3d
2	2	DEL3d
3	3	DEL3d
4	4	DEL3d
5	5	DEL3d
6	6	DEL3d
7	7	DEL3d
8	8	DEL3d
88	Refused	DEL3d
99	Don't know	DEL3d
DEL3d	How many lamps per fixture are present now, after the delamping retrofit? [PROBE FOR BEST GUESS IF DON'T KNOW]	
1	1	DEL3E
2	2	DEL3E
3	3	DEL3E
4	4	DEL3E
5	5	DEL3E
6	6	DEL3E
7	7	DEL3E
8	8	DEL3E
88	Refused	DEL4
99	Don't know	DEL4
DEL3E	Approximately how old were the fixtures that were <i>removed</i> and replaced as a result of this Remove and Replace delamping? Would you say	
1	Less than 5 years old	LI23
2	Between 5 and 10 years old	LI23
3	Between 10 and 15 years old	LI23
4	More than 15 years old	LI23
88	Refused	LI23
99	Don't know	LI23
DEL3F	How would you describe the condition of the fixtures that were removed and replaced as a result of the Remove and Replace delamping? Would you say they were in	
1	Poor condition	LI24
2	Fair condition, or	LI24
3	Good condition	LI24
88	Refused	LI24

0.0		V VO 4
99	Don't know	LI24
	Approximately what percentage of the fixtures that were	
DEL3G	removed and replaced were broken or not working prior to the Remove and Replace delamping?	
%	Percent	LI30
101	Refused	LI30
101	Don't know	LI30
102		L130
DEL4	Have you had a delamping retrofit to reduce the number of lamps per fixture within your facility since 2009?	
1	Yes	DEL4a
2	No	DEL5
88	Refused	DEL5
99	Don't know	DEL5
99		DELJ
	If DEL4 = 1 then ask; else skip to DEL5; How many lamps per fixture were present prior to the	
	delamping retrofit?[PROBE FOR BEST GUESS IF	
DEL4a	DON'T KNOW]	
77	Open Record	DEL4b
88	Refused	DEL4b
99	Don't know	DEL4b
	How many lamps per fixture are present now, after the	
	delamping retrofit? [PROBE FOR BEST GUESS IF	
DEL4b	DON'T KNOW]	
77	Open Record	DEL5
88	Refused	DEL5
99	Don't know	DEL5
	Is the amount of lighting better, worse, or the same than	
DEL5	before your delamping job?	
1	Better	L_MSP1
2	Worse	DEL11
3	Same	L_MSP1
88	Refused	DEL11
99	Don't know	DEL11
	If DEL5 in (2, 88, 99) then ask; else skip to L_MSP1;	
	Did you install additional lighting equipment to increase	
DEL11	the amount of lighting in the delamped area(s)?	
1	Yes	L_MSP1
2	No	L_MSP1
88	Refused	L_MSP1
99	Don't know	L_MSP1
-		

NTG QUESTIONS

[READ] For the sake of expediency, during the balance of the interview, we will be referring to the <&PROGRAM> as the PROGRAM and we will be referring to the installation of ... <&MEASURE> as the MEASURE. I will repeat this from time to time during the study as your organization may have installed more than one measure through more than one program.

There are usually a number of reasons why an organization like yours decides to participate in energy efficient programs like this one by installing energy efficient lights. In your own words, can

A3 you tell me why you decided to participate in this program?

1	To replace old or outdated lighting equipment	N2
2	As part of a planned remodeling, build-out, or expansion	N2
3	To gain more control over how the equipment was used	N2
4	Maintenance downtime/associated expenses for old equip were too high	N2
5	Had process problems and were seeking a solution	N2
6	To improve lighting equipment performance	N2
7	To improve production as a result of lighting	N2
8	To comply with codes set by regulatory agencies	N2
9	To improve visibility/plant safety	N2
10	To comply with company policies regarding regular lighting retrofits or remodeling	N2
11	To get a rebate from the program	N2
12	To protect the environment	N2
13	To reduce energy costs	N2
14	To reduce energy use/power outages	N2
15	To update to the latest technology	N2
77	RECORD VERBATIM	N2
88	Don't know	N2
99	Refused	N2

Did your organization make the decision to install this new lighting equipment before or after you became aware of rebates/cost

N2 reduction available through the PROGRAM?

1	Before	N3a
2	After	N3a
88	Refused	N3a
99	Don't know	N3a

[READ] Next, I'm going to ask you to rate the importance of the program as well as other factors that might have influenced your decision to install this lighting equipment through the program. Using a scale of 0 to 10 where 0 means not at all important and 10 means extremely important, how would you rate the importance of...

N3a The age or condition of the old equipment

#	Record 0 to 10 score ()	N3aa
88	Refused	N3b
99	Don't know	N3b

IF N3a > 5 and $NTG_TYPE = 2$ THEN ASK.

How, specifically, did this enter into your decision to

N3aa install/delamp this lighting?

77	RECORD VERBATIM	N3b
88	Don't know	N3b
99	Refused	N3b

# Record 0 to 10 score (N3b	Availability of the PROGRAM rebate/cost reduction	
199 Don't know N3c IF N3b > 7 AND NTG_TYPE = 2, THEN ASK.	#		N3bb
IF N3b > 7 AND NTG_TYPE = 2, THEN ASK. N3bb Why do you give it this rating? 77 Record VERBATIM N3c 88 Refused N3c 99 Don't know N3c IF &FEAS_STUDY=1, A1B(1), &TECH_ASSIST=1, or IDO(1) THEN ASK, ELSE N3d Please rate the degree of importance of information provided through A1D(1) A1B(1) A1B(1) A1D(1) A1B(1) A1D(1) A1D(1)<	88	Refused	N3c
N3bb Why do you give it this rating? 77 Record VERBATIM N3c 88 Refused N3c N3c 99 Don't know N3c 1F &FEAS_STUDY=I, A1B(I), &TECH_ASSIST=I, or IDO(I) THEN ASK, ELSE N3d Please rate the degree of importance of information provided through A1D(I)/c(FEAS_STUDY = I)/ The Feasibility study/> A1B(I)/c(AUDIT = I)/The Facility or System AUDIT/> N3c A1C(I)/c(TECH_ASST = I)/The Technical Assistance/> N3c # Record 0 to 10 score N3cc 88 Refused N3d 99 Don't know N3d IF N3c > 7 and NTG_TYPE = 2, THEN ASK. N3c Why do you give it this rating? 77 Record VERBATIM N3d 88 Refused N3d 99 Don't know N3d 1f VI = I then ask; Else skip to N3e. Record of to 10 score N3c Record of to 10 score N3c 88 Refused N3e 99 Don't know N3e 18 Refused N3e 19 Don't know N3e 10 N3e N3e 10 N3e N3e 10 N3e N3e 10 N3e N3e 11 N3e N3e N3e 12 N3e N3e 13 N3e N3e 14 Record 0 to 10 score N3f 15 N3f N3f 16 N3f N3f 17 N3f N3f 18 Refused N3f 19 Don't know N3f 10 N3f N3f 10 N3f N3f 11 N3f N3f 12 N3f N3f 13 N3f Record 0 to 10 score N3f 14 Record 0 to 10 score N3f 15 N3f N3f 16 N3f N3f 17 N3f N3f 18 N3f N3f 19 N3f N3f 19 N3f N3f 10 N3f N3f 10 N3f N3f 11 N3g N3f 12 N3g N3f 13 N3g N3f 14 N3f N3f 15 N3f N3f 16 N3f N3f 17 N3f N3f 18 Refused N3f 19 N3f N3f 10 N3f N3f 11 N3g N3f 12 N3g N3f 13 N3g N3f 14 N3f N3f 15 N3f N3f 16 N3f N3f 17 N3f N3f 18 N3f N3f 19 N3f N3f 10 N3f N3f 10 N3f N3	99	Don't know	N3c
77 Record VERBATIM N3c 88 Refused N3c 99 Don't know N3c IF &FEAS_STUDY=I, AIB(1), &TECH_ASSIST=I, or ID0(1) THEN ASK, ELSE N3d Please rate the degree of importance of information provided through AID(1) AID(1) AIB(1) AIB(1) AID(1) AIB(1) AID(1) AID(1) AID(1) AID(1) Record 0 to 10 score		IF N3b > 7 AND NTG_TYPE = 2, THEN ASK.	
88 Refused N3c N3c 99 Don't know N3c IF &FEAS_STUDY=1, A1B(1), &TECH_ASSIST=1, or ID0(1) THEN ASK, ELSE N3d Please rate the degree of importance of information provided through A1D(1)^{C}(FEAS_STUDY = 1)^{The Feasibility study/> A1B(1)^{C}(FEAS_STUDY = 1)^{The Feasibility study/> A1B(1)^{C}(TECH_ASSTE = 1)^{The Technical Assistance/> Record 0 to 10 score	N3bb		
99 Don't know	77	Record VERBATIM	N3c
IF &FEAS_STUDY=1, A1B(1), &TECH_ASSIST=1, or IDO(1) THEN ASK, ELSE N3d Please rate the degree of importance of information provided through A1D(1)/<(FEAS_STUDY = 1)/ The Feasibility study/> A1B(1)/<(AUDIT = 1)/The Facility or System AUDIT/> N3c A1C(1)/<(TECH_ASST = 1)/The Technical Assistance/> # Record 0 to 10 score (88	Refused	N3c
THEN ASK, ELSE N3d Please rate the degree of importance of information provided through AID(1)/<(FEAS_STUDY = 1)/ The Feasibility study/> AID(1)/<(AUDIT = 1)/ The Feasibility study/> AIC(1)/<(TECH_ASST = 1)/ The Technical Assistance/> # Record 0 to 10 score (99	Don't know	N3c
Please rate the degree of importance of information provided through AIDCIJ><(FEAS_STUDY = 1)/ The Feasibility study/> AIB(1)/<(AUDIT = 1)/The Facility or System AUDIT/> N3c AIC(1)/<(TECH_ASST = 1)/The Technical Assistance/> # Record 0 to 10 score (IF &FEAS_STUDY=1, A1B(1), &TECH_ASSIST=1, or ID0(1)	
through A1D(1)/<[FEAS_STUDY = 1)/ The Feasibility study/> A1B(1)/<[AUDIT = 1)/The Facility or System AUDIT/> N3c AIC(1)/<[TECH_ASST = 1)/The Technical Assistance/> # Record 0 to 10 score			
AlDd			
AlB(1)/<(AUDIT = 1)/The Facility or System AUDIT/> N3c			
N3c			
88 Refused N3d 99 Don't know N3d IF N3c > 7 and NTG_TYPE = 2, THEN ASK. N3d N3ce Why do you give it this rating? 77 Record VERBATIM N3d 88 Refused N3d 99 Don't know N3d If V1 = 1 then ask; Else skip to N3e. Recommendation from an equipment vendor that sold you the lighting equipment and/or installed it for you [VENDOR_1] # Record 0 to 10 score (N3c		
99 Don't know N3d IF N3c > 7 and NTG_TYPE = 2, THEN ASK. N3cc	#	Record 0 to 10 score ()	N3cc
IF N3c > 7 and NTG_TYPE = 2, THEN ASK. N3cc	88	Refused	N3d
N3cc Why do you give it this rating? 77 Record VERBATIM N3d 88 Refused N3d 99 Don't know N3d If VI = 1 then ask; Else skip to N3e. Recommendation from an equipment vendor that sold you the lighting equipment and/or installed it for you [VENDOR_1] # Record 0 to 10 score (99	Don't know	N3d
77 Record VERBATIM N3d 88 Refused N3d 99 Don't know N3d If V1 = 1 then ask; Else skip to N3e. Recommendation from an equipment vendor that sold you the lighting equipment and/or installed it for you [VENDOR_1] # Record 0 to 10 score () N3e 88 Refused N3e 99 Don't know N3e N3e. Your previous experience with energy efficient lighting projects? # Record 0 to 10 score () N3f 88 Refused N3f 99 Don't know N3f 99 Don't know N3f 99 Don't know N3g 88 Record 0 to 10 score () N3g 88 Don't know N3g 99 Refused N3g 1F A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g 1N3g Refused N3h 99 Don't know N3h 1F N3g > 5, THEN ASK. N3h N3g <t< th=""><th></th><th>IF N3c > 7 and NTG_TYPE = 2, THEN ASK.</th><th></th></t<>		IF N3c > 7 and NTG_TYPE = 2, THEN ASK.	
88 Refused N3d 99 Don't know N3d If V1 = 1 then ask; Else skip to N3e. Recommendation from an equipment vendor that sold you the lighting equipment and/or installed it for you [VENDOR_1] # Record 0 to 10 score (N3cc	Why do you give it this rating?	
1	77	Record VERBATIM	N3d
If V1 = 1 then ask; Else skip to N3e. Recommendation from an equipment vendor that sold you the lighting equipment and/or installed it for you [VENDOR_1] # Record 0 to 10 score (88	Refused	N3d
Recommendation from an equipment vendor that sold you the lighting equipment and/or installed it for you [VENDOR_1] # Record 0 to 10 score () N3e 88 Refused N3e 99 Don't know N3e N3e. Your previous experience with energy efficient lighting projects? # Record 0 to 10 score () N3f 88 Refused N3f 99 Don't know N3f Your previous experience with <&UTILITY>'s &PROGRAM or a similar utility program? # Record 0 to 10 score () N3g 88 Don't know N3g 99 Refused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h 99 Don't know N3g N3g N3g N3g N3g N3g N3g N3g	99	Don't know	N3d
# Record 0 to 10 score () N3e # Record 0 to 10 score () N3e # Refused N3e # Refused N3e # Record 0 to 10 score () N3e # Record 0 to 10 score () N3e # Record 0 to 10 score () N3f # Record 0 to 10 score () N3g # Respect N3g # Refused N3g # Refused N3g # Record 0 to 10 score () N3g # Respect N3h # Record 0 to 10 score () N3g # Record 0 to 10 score () N3g # Respect N3h # Record 0 to 10 score () N3g # Refused N3h # Respect N3h		If V1 = 1 then ask; Else skip to N3e.	
# Record 0 to 10 score () N3e 88 Refused N3e 99 Don't know N3e N3e. Your previous experience with energy efficient lighting projects? # Record 0 to 10 score () N3f 88 Refused N3f 99 Don't know N3f Your previous experience with <&UTILITY>'s &PROGRAM or a similar utility program? # Record 0 to 10 score () N3g 88 Don't know N3g 99 Refused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h 99 Don't know N3h 1F N3g > 5, THEN ASK. N3gg What type of information was provided during the training?			
88 Refused N3e 99 Don't know N3e N3e. Your previous experience with energy efficient lighting projects? # Record 0 to 10 score (170
N3e. Your previous experience with energy efficient lighting projects? # Record 0 to 10 score () N3f 88 Refused N3f 99 Don't know N3f Your previous experience with <&UTILITY>'s &PROGRAM or a similar utility program? # Record 0 to 10 score () N3g 88 Don't know N3g 99 Refused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h 99 Don't know N3g N3g N3g N3g N3g N3g N3g N3g		,	
N3e. Your previous experience with energy efficient lighting projects? Record 0 to 10 score () N3f 88			
# Record 0 to 10 score () 88 Refused N3f 99 Don't know N3f Your previous experience with <&UTILITY>'s &PROGRAM or a similar utility program? # Record 0 to 10 score () N3g 88 Don't know N3g Pefused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h Pon't know N3g N3h N3g N3h What type of information was provided during the training?			N3e
88 Refused N3f 99 Don't know N3f Your previous experience with <&UTILITY>'s &PROGRAM or a similar utility program? # Record 0 to 10 score () N3g 88 Don't know N3g 99 Refused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h 99 Don't know N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?			NOC
99 Don't know Your previous experience with <&UTILITY>'s &PROGRAM or a similar utility program? # Record 0 to 10 score () N3g 88 Don't know N3g 99 Refused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h 99 Don't know N3h IF N3g > 5, THEN ASK. What type of information was provided during the training?		,,	
Your previous experience with <&UTILITY>'s &PROGRAM or a similar utility program? # Record 0 to 10 score () N3g 88 Don't know N3g 99 Refused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h 99 Don't know N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?			
N3f similar utility program? # Record 0 to 10 score () N3g 88 Don't know N3g 99 Refused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg N3h 99 Don't know N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?	99		N3I
# Record 0 to 10 score () 88 Don't know N3g 99 Refused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h Pon't know N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?	N3f	1 1	
88 Don't know N3g 99 Refused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h 99 Don't know N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?			N3g
99 Refused N3g IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h 99 Don't know N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?		,	<u> </u>
IF A1F=1 and NTG_TYPE = 3 THEN ASK, ELSE N3h N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h 99 Don't know N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?			
N3g Information from &PROGRAM or &UTILITY training course? # Record 0 to 10 score () N3gg 88 Refused N3h 99 Don't know N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?			1138
# Record 0 to 10 score () 88 Refused N3h 99 Don't know N3g N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?	N3g		
88 Refused N3h 99 Don't know N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?			N3gg
99 Don't know N3h IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?		,	
IF N3g > 5, THEN ASK. N3gg What type of information was provided during the training?			
N3gg What type of information was provided during the training?			- 10
	N3gg		
			N3ggg

88	Refused	N3ggg
99	Don't know	N3ggg N3ggg
	How, specifically, did this enter into your decision to	NJggg
N3ggg	install/delamp this lighting equipment?	
77	RECORD VERBATIM	N3h
88	Don't know	N3h
99	Refused	N3h
N3h	Information from &PROGRAM or &UTILITY marketing materials?	
#	Record 0 to 10 score ()	N3hh
88	Refused	N3j
99	Don't know	N3j
	IF N3h > 5 and NTG_TYPE = 2, THEN ASK	
N3hh	What type of information was provided that pertained to the PROJECT?	
77	Record VERBATIM	N3hhh
88	Refused	N3hhh
99	Don't know	N3hhh
	IF N3hh = 77, THEN ASK	
	How, specifically, did this enter into your decision to	
N3hhh	install/delamp this energy efficient lighting equipment?	
77	RECORD VERBATIM	N3j
88	Don't know	N3j
99	Refused	N3j
	$IF NTG_TYPE = 2$	
N3j	Standard practice in your business/industry	
#	Record 0 to 10 score ()	N3k
88	Refused	N3k
99	Don't know	N3k
	If AP9 = 3 or AP9A = 3 then ask; Else skip to N3m;	
N3l	Endorsement or recommendation by your account rep?	
#	Record 0 to 10 score ()	N311
88	Refused	N3m
99	Don't know	N3m
	IF N31 > 5, THEN ASK	
N3II	What did they recommend?	27011
77	Record VERBATIM	N3III
88	Refused	N3III
99	Don't know	N3III
N3III	How, specifically, did this enter into your decision to install this project using energy efficient equipment?	
77	RECORD VERBATIM	N3m
88	Don't know	N3m
99	Refused	N3m
N3m	IF NTG_TYPE = 2, ASK Corporate policy or guidelines	
#	Record 0 to 10 score ()	N3mm
	/	- 10

88	Refused	N3mm
99	Don't know	N3mm
	IF N3m > 5, THEN ASK.	
	How, specifically, did this enter into your decision to	
N3mm	install/delamp this lighting equipment?	
77	RECORD VERBATIM	N3n
88	Don't know	N3n
99	Refused	N3n
N3n	Payback or return on investment of installing this lighting equipment	
#	Record 0 to 10 score ()	N3o
88	Refused	N3o
99	Don't know	N3o
N3o	To Improve overall quality of lighting?	
#	Record 0 to 10 score ()	N3oo
88	Refused	N3p
99	Don't know	N3p
	IF N3o > 5, THEN ASK.	
Na	How, specifically, did this enter into your decision to	
N300	install/delamp this lighting equipment?	NO
77	RECORD VERBATIM	N3p
88	Don't know	N3p
99	Refused	N3p
	IF FM050 = 12 AND NTG_TYPE = 4, THEN ASK, ELSE SKIP TO N3r	
	Compliance with state or federal regulations or standards such as	
N3p	Title 24?	
#	Record 0 to 10 score ()	N3pp
88	Refused	N3r
99	Don't know	N3r
	IF N3p > 5, THEN ASK.	
	How, specifically, did this enter into your decision to upgrade to	
N3pp	energy efficient equipment?	
77	RECORD VERBATIM	N3r
88	Don't know	N3r
99	Refused	N3r
N3r	Compliance with your organization's normal remodeling or lighting replacement practices?	
#	Record 0 to 10 score ()	N3rr
88	Refused	N3s
99	Don't know	N3s
	IF N3r > 5, THEN ASK.	
N3rr	How, specifically, did this enter into your decision to install/delamp this lighting equipment?	
77	RECORD VERBATIM	N3s.
88	Don't know	N3s.
99	Refused	N3s.

Were there any other factors we haven't discussed that were **N3s** influential in your decision to install/delamp this MEASURE?

1	Nothing else influential	CC1
77	Record verbatim	N3ss
88	Refused	CC1
99	Don't know	CC1

Using the same zero to 10 scale, how would you rate the influence

N3ss of this factor?

#	Record 0 to 10 score ()	CC1
88	Refused	CC1
99	Don't know	CC1

CONSISTENCY CHECKS ON N3p, N3q and N3r

IF A3 = 8, AND N3p < 4, THEN ASK.

You indicated earlier that compliance with codes or regulatory policies was one of the reasons you did the project. However, just now you scored the importance of compliance with state or federal regulations or standards such as Title 24 in your decision making

CC1 fairly low, why is that?

77	RECORD VERBATIM	CC1a
88	Don't know	CC1a
99	Refused	CC1a

IF A3 not equal to 8, and N3p > 7, THEN ASK.

You indicated earlier that compliance with codes or regulatory policies was not one of the primary reasons you did the project. However, just now you scored the importance of compliance with state or federal regulations or standards such as Title 24 in your

CC1a decision making fairly high, why is that?

77	RECORD VERBATIM	CC3
88	Don't know	CC3
99	Refused	CC3

IF A3 = 2 or 10, AND N3r < 4, THEN ASK.

You indicated earlier that a regularly scheduled retrofit was one of the reasons you did the project. However, just now you scored the importance of compliance with your companies regularly schedule retrofit or lighting replacement in your decision making fairly low,

NCC3 why is that?

77	RECORD VERBATIM	CC3a
88	Don't know	CC3a
99	Refused	CC3a

IF A3 2 and A3 2 and A3 2 AND N3r > 7 THEN ASK.

You indicated earlier that a regularly scheduled retrofit was NOT one of the reasons you did the project. However, just now you scored the importance of compliance with your companies regularly schedule retrofit or lighting replacement in your decision

NCC3a making fairly high, why is that?

77	RECORD VERBATIM	N33
88	Don't know	N33
99	Refused	N33

ASK ALL

PAYBACK BATTERY (If payback importance > 5) If INCENT < 100 AND NTG_TYPE = 2, then ask; Else skip to N33;

What financial calculations does your company typically make before proceeding with the installation of lighting equipment like

P1 you installed through the program	P1	you installed	through the	program'
---	-----------	---------------	-------------	----------

1	Payback	P2
2	Return on investment	P2
77	Record VERBATIM	P2
88	Don't know	P2
99	Refused	P2

If P1 = 1, ask; else skip to P2B;

What is your threshold in terms of the payback or return on investment your company uses before deciding to proceed with installing lighting equipment like you installed through the

P2A program?

1	0 to 6 months	Р3
2	6 months to 1 year	Р3
3	1 to 2 years	Р3
4	2 to 3 years	Р3
5	3 to 5 years	Р3
6	Over 5 years	Р3
88	Don't know	Р3
99	Refused	Р3

If P1 = 2, then ask;

P2B	What is your ROI?	
1	Record ROI;	Р3

Did the rebate move your lighting equipment project within this

P3	acceptable range?

1	Yes	P4
2	No	P3a
88	Don't know	P3a
99	Refused	P3a

If P3 = 1 then ask; Else skip to P3A;

On a scale of 0 to 10, with a 10 meaning a "Very Important" and a 0 meaning "Not at all important", how important in your decision

24. was it that the project was now in the acceptable range?

#	Record 0 to 10 score ()	P3a
88	Refused	P3a
99	Don't know	P3a

CONSISTENCY CHECKS ON N3b and P3

IF P3 = 1, AND N3b < 5, THEN ASK.

The rebate seemed to make the difference between meeting your financial criteria and not meeting them, but you are saying that the

P3a rebate didn't have much effect on your decision, why is that?

77	Record VERBATIM	P3e
88	Don't know	P3e
99	Refused	P3e

IF P3 = 2, AND N3b > 5, THEN ASK.

The rebate didn't cause the installation of lighting equipment to meet your company's financial criteria, but you said that the rebate had an impact on the decision to install this lighting equipment.

P3e. Why did it have an impact?

77	Record VERBATIM	N33
88	Don't know	N33
99	Refused	N33

Next, I would like you to rate the importance of the PROGRAM in your decision to implement this MEASURE as opposed to other factors that may have influenced your decision such as...(SCAN BELOW AND READ TO THEM THOSE

ITEMS WHERE THEY GAVE A RATING OF 8 or higher)

- <%N3A> Age or condition of old equipment,
- <%N3D> Equipment Vendor recommendation
- <%N3E> Previous experience with this measure
- <%N3F> Previous experience with this program
- <%N3J> Standard practice in your business/industry
- <%N3M> Corporate policy or guidelines
- <%N3N> Payback on investment.
- <%N3O> To improve production as a result of lighting,
- <%N3P> Compliance with state or federal regulations or standards such as Title 24
- <%N3R> Compliance with normal maintenance or retrocommissioning policies or your companies regularly scheduled retrofit or lighting replacement

If you were given 10 points to award in total, how many points would give to the importance of the program and how many points would you give to these other factors?\

How many of the ten points would you give to the importance of

N41 the PROGRAM in your decision?

#	Record 0 to 10 score ()	N42
88	Refused	N42
99	Don't know	N42
N42 And how many points would you give to all of these other factors?\		
#	Record 0 to 10 score ()	N41a
88	Refused	N41a
99	Don't know	N41a

If N41 <> 88 and N41 <> 99 and N42 <> 88 and N42 <> 99, computer N41 + N42. While N41+N42 <> 10, display:

- __We want these two sets of numbers to equal 10.
- <%N41> for Program influence and
- <%N42> for Non Program factors

Now I would like you to think about the action you would have taken with regard to the installation of this equipment if the &PROGRAM had not been available.

IF MEASURE= REPLACEMENT THEN ASK; Else skip to N5aa;

Using a likelihood scale from 0 to 10, where 0 is Not at all likely and 10 is Extremely likely, if THE PROGRAM had NOT BEEN AVAILABLE, what is the likelihood that you would have installed exactly the same program qualifying lighting equipment that you

N5	did	in	this	pro	iect'

#	Record 0 to 10 score ()	N5a
88	Refused	N5B
99	Don't know	N5B

IF MEASURE = ADD-ON THEN ASK; Else skip to N6;

Using a likelihood scale from 0 to 10, where 0 is Not at all likely and 10 is Extremely likely, if THE PROGRAM had NOT BEEN AVAILABLE, what is the likelihood that you would have installed

N5aa exactly the same lighting equipment at the same time as you did?

#	Record 0 to 10 score ()	N6
88	Don't know	N6
99	Refused	N6

CONSISTENCY CHECKS

IF N3b > 7 and N5 > 7, THEN ASK.

When you answered ...<%N3B> ... for the question about the influence of the rebate, I would interpret that to mean that the rebate was quite important to your decision to install. Then, when you answered ..<%N5>... for how likely you would be to install the same equipment **without** the rebate, it sounds like the rebate was not very important in your installation decision.

I want to check to see if I am misunderstanding your answers or if the questions may have been unclear. Will you explain in your own words, the role the rebate played in your decision to install this

N5a efficient equipment?

77	Record VERBATIM	NN5aa
88	Don't know	NN5aa
99	Refused	NN5aa

Would you like for me to change your score on the importance of the rebate that you gave a rating of <% N3B> and/or change your rating on the likelihood you would install the same equipment without the rebate which you gave a rating of <% N5> and/or we

NN5aa can change both if you wish?

77	Record how they would rate rebate influence and how they would rate likeliness to install without the rebate	N5b
88	Don't know	N5b
99	Refused	N5b

If MEASURE = REPLACEMENT then ask; Else skip to N6;

Using the same scale as before, if the program had not been available, what is the likelihood that you would have done this

N5b project at the same time as you did?

#	Record 0 to 10 score ()	TD1
88	Refused	TD1
99	Don't know	TD1

DEFERRED FREE RIDERSHIP FOLLOW-UP

Next, I'd like to ask a couple of questions to help us estimate at what point in the future you would definitely have replaced your existing equipment. We understand that you can't know exactly when you would have done this, especially so far into the future. We're just trying to get a sense of how long you think the current

FOR BOTH TD1 and TD1a

INTRO

We're just trying to get a sense of how long you think the currer equipment or process would have kept serving your company's needs before you had to or chose to replace it.

If N5b < 9, ask TD1, ELSE N6;

If the program had not been available, how likely is it that you would have replaced your existing equipment within one year of

TD1 when you did?

1	Definitely would have (1.0 probability)	N6
2	Probably would have (0.75 probability)	TD2
3	50-50 chance (0.50 probability)	TD2
4	Probably not (0.25 probability)	TD2
5	Definitely not (0.0 probability)	TD2

IF TD1 = 2, 3, 4, 5 ASK TD2, ELSE GO TO N6

If the program had not been available, how likely is it that you would have replaced your existing equipment within three years of

TD2 when you did?

1	Definitely would have (1.0 probability)	N9bb
2	Probably would have (0.75 probability)	TD3
3	50-50 chance (0.50 probability)	TD3
4	Probably not (0.25 probability)	TD3
5	Definitely not (0.0 probability)	TD3

IF TD2= 2, 3, 4, 5 ASK TD3, ELSE GO TO N6

If the program had not been available, how likely is it that you would have replaced your existing equipment within five years of

TD3 when you did?

1	Definitely would have (1.0 probability)	N9bb
2	Probably would have (0.75 probability)	N9bb
3	50-50 chance (0.50 probability)	N9bb
4	Probably not (0.25 probability)	N9bb
5	Definitely not (0.0 probability)	N9bb

CONSISTENCY CHECK ON AGE

IF (N3a > 6 AND TD3 = 3, 4 or 5) THEN ASK. ELSE N6.

Earlier when asked about the influence of the age/condition of the old equipment on your decision to install this new equipment, you gave me a rating of <% N3A> out of ten. I would interpret this to mean that the age/condition was quite influential in your decision to install this new equipment when you did. Perhaps I have either recorded something incorrectly or maybe you could explain in your own words the role the age/condition of the existing equipment played in your decision to install this new energy-efficient

N9bb equipment.

77	Record VERBATIM	N6
88	Don't know	N6
99	Refused	N6

ADDITIONAL BASELINE INPUT

Now I would like you to think one last time about what action you would have taken if the program had not been available. Which of the following alternatives would you have been MOST likely to

N6	do?
140	uo:

1	Install/Delamped fewer units	N6a
2	Install standard efficiency equipment or whatever required by code	N7
3	Installed equipment more efficient than code but less efficient than what you installed through the program	N6b
4	Done nothing	N7
5	Done the same thing I would have done as I did through the program	N7
6	Repair or overhaul the existing equipment	N6c
77	something else (specify what)	N7
88	Don't know	N7
99	Refused	N7

How many fewer units would you have installed/Delamped? (It is okay to take an answer such as ...HALF...or 10 percent fewer ...

N6a etc.)

77	RECORD VERBATIM	N7
88	Refused	N7
99	Refused	N7

Can you tell me what model or efficiency level you were considering as an alternative? (It is okay to take an answer such as ... 10 percent more efficient than code or 10 percent less efficient

N6b than the program equipment)

77	RECORD VERBATIM	N7
88	Don't know	N7
99	Refused	N7

How long do you think the repaired lighting equipment would have

N6c lasted before requiring replacement?

77	RECORD VERBATIM	N7
88	Don't know	N7
99	Refused	N7

EARLY REPLACEMENT BATTERY

[IF N5b < 8 and A3 = 1, 4,8, or 10 THEN ASK. ELSE SKIP TO SP1]

Earlier, when I asked you a question about why you decided to implement the project, you gave reasons related to <A3> Now I would like to ask you some follow up questions regarding these responses you gave me.

IF MEASURE=REPLACEMENT THEN ASK,

How many more years do you think your lighting system would

ER2 have gone before failing and required replacement?

Yrs	Estimated Remaining Useful Life	ER6
88	Don't know	ER6
99	Refused	ER6

IF A3 = 4, THEN ASK,

WksDowntime Estimate	ER9
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88	Don't know	ER9
99	Refused	ER9
ER9	In your opinion, based on the economics of operating this equipment, for how many more years could you have kept this equipment functioning?	EK
Yrs	Estimated Remaining Useful Life	ER11
88	Don't know	ER11
99	Refused	ER11
	IF $A3 = 8$, THEN ASK,	
ER15	Can you briefly describe the specific code/regulatory requirements that this project addressed?	
77	RECORD VERBATIM	ER19
88	Don't know	ER19
99	Refused	ER19
ER19	IF A3 = 10, THEN ASK, Can you briefly describe the specific company policies regarding regular/normal maintenance/replacement policy(ies) that were relevant to this project? Can you briefly describe the specific company policies regarding regular lighting retrofits and remodeling?	
77	RECORD VERBATIM	SP1
88	Don't know	SP1
99	Refused	SP1
	PROCESS QUESTIONS	
PP1	What do you believe the PROGRAM'S primary strengths are?	
77	Record VERBATIM	PP2
88	Don't know	PP2
99	Refused	PP2
PP2	What concerns do you have about the PROGRAM, if any? (IF NEEDED: What do you view as the primary features that need to be improved?)	
77	Record VERBATIM	PP4
88	Don't know	PP4
99	Refused	PP4
PP4	On a scale of 0 - 10, where 0 is completely dissatisfied and 10 is completely satisfied, how would you rate your OVERALL satisfaction with the &PROGRAM?	
#	Record 0 to 10 score ()	PP5
88	Refused	PP5
99	Don't know	PP5
	IF PP4 < 4, THEN ASK. ELSE PP5A	
PP5	Why do you say that?	
77	Record VERBATIM	PP5A
88	Don't know	PP5A
99	Refused	PP5A
PP5A	Using the same 0 - 10 scale, how would you rate your OVERALL satisfaction with the performance of the lighting measures you had installed?	

#	Record 0 to 10 score ()	PP5B
88	Refused	PP6
99	Don't know	PP6

IF PP5A < 6, THEN ASK. ELSE PP6.

PP5B Why do you say that?

77	Record VERBATIM	PP6
88	Don't know	PP6
99	Refused	PP6

ASK IF [&Implementer = "a local government", "state government", or "an independent firm"]. ELSE PP10.

IF &PRGNAME is not an IOU administered program:

The program you participated in was run by &IMPLEMENTER. Has your organization participated in energy efficiency programs

PP6 run by &IOU in the past three years?

1	Yes	PP8
2	No	PP10
88	Refused	PP10
99	Don't know	PP10

Please consider your recent experience with the PROGRAM run by &IMPLEMENTER versus your past experience with the program run by &UTILITY. Are there any differences between the two that stand out? Any there attributes or services that seemed better in

PP8 one or the other?

77	Yes, Record VERBATIM	PP10
78	No differences	PP10
88	Don't know	PP10
99	Refused	PP10

ASK IF &PRGNAME is IOU administered program. ELSE PP12.

The program you participated in was run by &UTILITY. Have you participated in programs run by governments, institutions, or other independent firms in the past three years? (select all that

PP10 apply)

1	Local Government	PP14
2	State Government or Institution	PP14
3	Independent Firm	PP12
88	Refused	PP16
99	Don't know	PP16

If PP10 = 3 "Independent Firm", then ask

Please consider your experiences with the program run by an independent firm versus your recent experience with the program run by an independent firm versus your recent experience with &UTILITY's program. Are there any differences between the two that stand out? Are there attributes or services that seemed better in one or the other? (NOTE: SPECIFY WHICH ENTITY IS

PP12 REFERRED TO IN EACH COMMENT)

	1	No differences	PP16
7	77	Yes, RECORD DIFFERENCES	PP16
8	88	Refused	PP16

99	Don't know	DD16
99		PP16
	If PP6 = 1 and PP10 < 4, then ask;	
	Please consider your experiences with the program run by a government or institution versus your recent experience with	
	<utility>'s PROGRAM. Are there any differences between the</utility>	
	two that stand out? Are there attributes that seemed better in one or	
	the other? (NOTE: SPECIFY WHICH ENTITY IS REFERRED	
PP14	TO IN EACH COMMENT)	
77	Yes, Record VERBATIM	PP16
78	No differences	PP16
88	Refused	PP16
99	Don't know	PP16
	ASK if PP6 = 1 OR PP10 = 1, 2 or 3. ELSE PP3.	
	Which entity, the UTILITY program or the IMPLEMENTER	
	program was more effective in supporting your organization's	
PP16	decision making process?	
1	IMPLEMENTER	PP18
2	UTILITY	PP18
3	Very little difference	PP18
88	Refused	PP18
99	Don't know	PP18
	If PP16 in (1, 2) then ask; else skip to PP20;	
PP18	How significant was this difference? Would you say	
1	Very Significant	PP20
2	Somewhat Significant	PP20
3	Not very significant	PP20
88	Refused	PP20
99	Don't know	PP20
	Which entity had a better technical understanding of the energy use	
	at your facility and provided the best technical assistance in	
PP20	specifying the project?	
1	&IMP2	PP22
2	&IOU	PP22
3	Very little difference	PP22
88	Refused	PP22
99	Don't know	PP22
	If PP20 in (1, 2) then ask; else skip to PP24;	
PP22	How significant was this difference? Would you say	
1	Very Significant	PP24
2	Somewhat Significant	PP24
3	Not very significant	PP24
88	Refused	PP24
99	Don't know	PP24
	Which entity was more effective in supporting you through the	
PP24	application process	
1	&IMP2	PP26
2	&IOU	PP26
3	Very little difference	PP26

88	Refused	PP26
99	Don't know	PP26
	If PP24 in (1, 2) then ask; else skip to PP3;	
PP26	How significant was this difference? Would you say	
1	Very Significant	PP3
2	Somewhat Significant	PP3
3	Not very significant	PP3
88	Refused	PP3
99	Don't know	PP3
PP3	Do you have any comments on the current incentive structure of the PROGRAM?	
1	No	ID1
77	Yes - RECORD COMMENTS	ID1
88	Don't know	ID1
99	Refused	ID1

LONG TERM INFLUENCE

If $NTG_TYPE = 2$

IF N3f > 4, THEN ASK, ELSE CCC12A

Now I'd like you to think about your organization's experiences with %UTILITY's energy efficiency programs and efforts over the longer term, for example, over the past 5, 10, or even 20 years.

In an earlier question, you indicated that your previous experience with utility energy efficiency programs was a factor that influenced your decision to implement this PROJECT. I would like to ask you a few questions about this experience.

For how many years have you been participating in UTILITY's

LT2 energy efficiency PROGRAM(s)?

	# yrs	Record Number of Years	LT3
	88	Refused	LT3
Ī	99	Don't know	LT3
_		Daine distinct the same time the same is the	-

During this time, how many times has your organization

LT3 participated in these PROGRAM(s)?

1	7 to 10 times, or more	CA6
2	4 to 7 times	CA6
3	2 to 4 times	CA6
4	less than 2 times	CA6
88	Refused	LT6
99	Don't know	LT6

IF LT3(1||4);

CA6 What type of equipment did you install through this (these) program(s)? [READ RESPONSE CATEGORIES]

1	Indoor lighting	LT6
2	Cooling equipment	LT6
3	Natural gas equipment, such as water heater, furnace or appliances	LT6
4	Insulation or windows	LT6
5	Refrigeration	LT6
6	Industrial process equipment	LT6
7	Greenhouse heat curtains	LT6

8	Food service equipment	LT6
77	OPEN \SOMETHING OTHER (specify)	LT6
88	Refused	LT6
99	Don't Know	LT6
LT6	What factors led you to participate in these program(s)?	
77	Record VERBATIM	LT7
88	Refused	LT7
99	Don't know	LT7
LT7	And exactly how did that experience help to convince you to install this lighting equipment?	
77	Record VERBATIM	LT8
88	Refused	LT8
99	Don't know	LT8
	IF LT3 = 1 or 2, THEN ASK. ELSE CCC12A. Have these programs had any long-term influence on your organization's energy efficiency related practices and policies that go beyond the immediate effect of incentives on individual projects? [DO NOT READ: Examples are causing them to add energy efficiency procurement policies, internal incentive or reward structures for improving energy efficiency, or adoption	
LT8	of energy management best practices.]	
1	Yes	LT9
2	No	CC12A
88	Refused	CC12A
99	Don't know	CC12A
LT9	If LT8 = 1 then ask; else skip to CA2; Has your organization developed a specification policy for the selection of energy-efficient equipment? [EXAMPLES REQUIREMENTS THAT ALL NEW FLUORESCENT LIGHTING SYSTEMS USE ELECTRONIC BALLAST, OR THAT ALL NEW MOTORS BE PREMIUM EFFICIENCY]	
1	Yes	LT10
2	No	LT10
88	Refused	LT10
99	Don't know	LT10
LT10	Has your organization assigned responsibility for controlling energy usage and costs to any of the following?	
1	An in-house staff person	LT11
2	A group of staff	LT11
3	An outside contractor	LT11
4	NONE OF THESE	LT11
88	Refused	LT11
99	Don't know	LT11
LT11	Does your organization have any internal incentive or reward policies for business units or staff responsible for managing energy costs?	
1	Yes	LC7
2	No	CA2

88	Re	fused		CA2
99	Do	n't know		CA2
LC7	Но	w do these incentive/reward structures work?		
77	OP	PEN/Record		CA2
88	Re	fused		CA2
99	Do	n't know		CA2
CA2	you	marketing materials or in communications with customers, does ur company highlight the ways in which your business is vironmentally conscious?		
1	Ye	S		URN TO PROGRAM ITING EQUIPMENT BATTERY
2	No		LIGH	URN TO PROGRAM ITING EQUIPMENT BATTERY
77	OP	PEN\RECORD OTHER		URN TO PROGRAM ITING EQUIPMENT BATTERY
88	Re	fused	RETURN TO PROGRAM LIGHTING EQUIPMENT BATTERY	
99	Do	on't know		URN TO PROGRAM ITING EQUIPMENT BATTERY
		LIGHTING SPILLOVER		
		If LI30 ^= 100; else skip to CL1		
		READ Comment IF & Program LIGHTING PARTICIPANT		
Commo	ent	Thanks for discussing the new lighting equipment that you install through the program. Next I would like to discuss any lighting equipment you might have installed OUTSIDE of the program	ed	L_MSP1
L_MS	SP1	ASK ALL Since January 2010 have you purchased and installed any lighting your own without any assistance from the &Utility &Program or another utility program either at this facility or at other locations?		
	1	Yes, only at this facility		LSP2
	2	Yes, only at other locations		LSP2
	3	Yes, at this facility and other locations		LSP2
	4	No		T12Intro
	88	Refused		T12Intro
	99	Don't know		T12Intro
LS	SP2	If L_MSP1 in (1-3); else skip to CL1 What type of fixtures, ballasts, or lighting controls were installed part of this lighting retrofit that was done without any assistance your utility? [SELECT ALL THAT APPLY, AFTER EACH RESPONSE, PROMPT WITH,]		LIGHT_TECH1B
	1	High performance T8 fluorescent fixtures (1" diameter bulbs)		High
	2	T8 fluorescent fixtures (1" diameter bulbs)		High
	3	T10 fluorescent fixtures		Low

4	T12 Fixtures (1.5" diameter bulbs)	Low
5	HID (High Density Discharge) Fixtures, Compact	High
6	Compact Fluorescent, Screw-in Modular	High
7	Compact Fluorescent, Hardwire	High
8	Incandescent	None
9	Exit Signs, Compact Fluorescent	High
10	Exit Signs, LED	High
11	Halogen	Low
12	Install Reflectors	High
13	Electronic Ballast	Low
14	Magnetic Ballast	Low
15	Lighting Controls, Time Clock	High
16	Lighting Controls, Occupancy Sensors	High
17	Lighting Controls, Bypass/Delay Timers	High
18	Lighting Controls, Photocell	High
19	Other Fluorescent	Low
20	Fat/Thick Tubes	Low
21	Skinny/Thin Tubes	High
22	T5 Fixtures (5/8" diameter)	High
23	Generic LED (Screw Based)	High
24	Screw-in LEDs Reflector Lamps	High
25	LED Fixtures or Panels (e.g., replacement for linear fixtures)	High
77	Other (PLEASE SPECIFY)	Low
88	Refused	None
99	Don't Know	None

ASK IF LSP2=5; ELSE SKIP TO MSP2A

LI17 Were the HID lamps you installed High Pressure Sodium, Metal Halide, Mercury Vapor or Incandescent?

1	High pressure sodium	Loop
2	Metal Halide	Loop
3	Mercury Vapor	Loop
4	Incandescent	Loop
88	Refused	Loop
99	Don't know	Loop

Loop LOOP THROUGH MSP2 TO MSP26

ASK IF LIGHT_TECH1B = High; Else Skip to MSP26

READ: Now I would like to ask you a few questions about the &LIGHT_TECH1B that you purchased outside the program.

If L_MSP1 in (1-2); else skip to MSP2B

MSP2A How many &LIGHT_TECH1B did you purchase for this facility?

1	{Record Number} for this facility	MSP2B
88	Refused	MSP2B
99	Don't know	MSP2B

If L_MSP1 in (2-3)

MSP2B How many &LIGHT_TECH1B products did you buy on your own for other locations?

1	{Record Number} for another facility	MSP4

88	Refused	MSP4
99	Don't know	MSP4
MCD4	I'm going to read a statement about this equipment that you purchased on your own. On a scale from 1-10, with 1 indicating that you strongly disagree, and 10 indicating that you strongly agree, please rate the following statement. My experience with the 2010-2012 & Utility & Program influenced my decision to install different types of high efficiency equipment on	
MSP4	my own. {Record Response (1-10)}	MSP5
88	Refused	MSP5
99	Don't Know	MSP5
	If MSP4 > 5 then ask; Else skip to MSP6;	WIST 5
MSP5	Why do you give it this rating?	
77	Record VERBATIM	MSP17
88	Don't know	MSP17
99	Refused	MSP17
MSP17	Why did you purchase this lighting without the financial assistance available through &Utility program? {DO NOT READ; INDICATE ALL THAT APPLY}	
1	Too much paperwork	MSP19
2	Takes too long to get approval	MSP19
3	No time to participate, needed equipment immediately	MSP19
4	The program had ended	MSP19
5	The equipment would not qualify {PROBE: Why not?}	MSP19
6	The amount of the rebate wasn't important enough	MSP19
7	Did not know the program was available	MSP19
8	There was no program available	MSP19
77	Other {SPECIFY}	MSP19
88	Refused	MSP19
99	Don't know	MSP19
MSP19	Was this measure specifically recommended by a PROGRAM/UTILITY sponsored audit, report or program technical specialist?	
1	Yes	MSP20
2	No	MSP20
88	Refused	MSP20
99	Don't know	MSP20
MSP20	If you had not participated in the Program, how likely is it that your organization would still have implemented this measure, using a 0 to 10 scale where 0 means you definitely WOULD NOT have implemented this measure and 10 means you definitely WOULD have implemented this measure?	
#	Record 0 to 10 likelihood rating ()	MSP23
88	Refused	MSP23
99	Don't know	MSP23
	ı	

ASK ALL LIGHTING ADOPTERS

In what year did you install &LIGHT_TECH1B? (PROBE FOR

MSP23 BEST GUESS)

	,	
1	2010	MSP24
2	2011	MSP24
88	Refused	MSP25
99	Don't know	MSP24
MSP24	And in which month? If you cannot get month, try to get the season.	
1	January	MSP25
2	February	MSP25
3	March	MSP25
4	April	MSP25
5	May	MSP25
6	June	MSP25
7	July	MSP25
8	August	MSP25
9	September	MSP25
10	October	MSP25
11	November	MSP25
12	December	MSP25
13	Fall	MSP25
14	Winter	MSP25
15	Spring	MSP25
16	Summer	MSP25
88	Refused	MSP25

Did you receive a rebate for the purchase of the

MSP25 &LIGHTING_TECH1B?

Don't know

1	Yes	MSP26
2	No	MSP26
88	Refused	MSP26
99	Don't know	MSP26

ASK IF LIGHT_TECH1B = Low and LOOP; Else Skip to CFL_Comment

Next I'd like to ask you a few questions about the equipment that was removed and replaced when you installed the &LIGHT_TECH1B...

What type of lighting was removed and replaced when you installed

MSP26 &LIGHT_TECH1B?

1	High performance T8 (1" diameter bulbs)	MSP27
2	T8 fluorescent fixtures (1" diameter bulbs)	MSP27
3	T10 fluorescent fixtures	MSP27
4	T12 Fixtures (1.5" diameter bulbs)	MSP27
5	HID (High Density Discharge) Fixtures, Compact	MSP27
6	Compact Fluorescent, Screw-in Modular	MSP27
7	Compact Fluorescent, Hardwire	MSP27
8	Incandescent	MSP27
9	Exit Signs, Compact Fluorescent	MSP27
10	Exit Signs, LED	MSP27

MSP25

	T x x 1	Manag
11	Halogen	MSP27
12	Install Reflectors	MSP27
13	Electronic Ballast	MSP27
14	Magnetic Ballast	MSP27
15	Lighting Controls, Time Clock	MSP27
16	Lighting Controls, Occupancy Sensor	MSP27
17	Lighting Controls, Bypass/Delay Timers	MSP27
18	Lighting Controls, Photocell	MSP27
19	Other Fluorescent	MSP27
20	Fat/Thick Tubes	MSP27
21	Skinny/Thin Tubes	MSP27
22	T5 Fixtures (5/8" diameter)	MSP27
66	NOTHING, EQUIPMENT WAS ONLY ADDED, NOT REPLACED	MSP27
77	Other (PLEASE SPECIFY)	MSP27
88	Refused	MSP27
99	Don't know	MSP27
MSP27	Approximately how old was this light equipment that you removed/replaced? Would you say	
1	Less than 5 years old	MSP28
2	Between 5 and 10 years old	MSP28
3	Between 10 and 15 years old	MSP28
4	More than 15 years old	MSP28
88	Refused	MSP28
99	Don't know	MSP28
MSP28	How would you describe the condition of this removed equipment? Would you say they were	
1	In poor condition	MSP29
2	Fair condition, or	MSP29
3	Good condition	MSP29
88	Refused	MSP29
99	Don't know	MSP29
MSP29	Approximately what percentage of this removed lighting equipment was broken or not working prior to installing	
%	Percent	CFL_Comment
88	Refused	CFL_Comment
99	Don't know	CFL_Comment
CFL_Comment	I'd like to ask you some specific questions about the CFLs you purchased outside of your participation in the program.	CFL1A
CFL1A	Ask if LSP2 = 6 and CFL_Flag = 1 or LI100 = 5 Where did you purchase the CFLs? [ACCEPT MULTIPLES]	
	2 - 1	

1	Home Depot	CFL3
2	Costco	CFL3
3	Orchard Supply Hardware	CFL3
4	ACE Hardware	CFL3
5	Lowe's	CFL3

	6	SaveMart	CFL3
	7	K-Mart	CFL3
	8	Sam's Club	CFL3
	9	Smart & Final	CFL3
	10	Yardbirds Home Center	CFL3
	11	Fry's Electronics	CFL3
	12	True Value	CFL3
	65	CONTRACTOR INSTALLED	CFL3
	77	OTHER [Specify:]	CFL3
	88	Refused	CFL3
	99	Don't know	CFL3
CF	L3	Were all these CFLs installed or were some put in storage for later use?	
	1	All installed	LI30_A
	2	All in storage	CFL5
	3	Some in storage, Some installed	CFL4
	88	Refused	LI30_A
	99	Don't Know	LI30_A
		IF CFL3 = 3	
CF	L4	What percentage were installed?	
	77	Open Record	CFL5
	88	Refused	CFL5
	99	Don't know	CFL5
		IF CFL3 = in (2, 3)	
CF	L5	Why were they put in storage?	
	77	Open Record	LI30_A
	88	Refused	LI30_A
	99	Don't know	LI30_A
		Considering all of the lighting changes we just discussed (purchases	
LI30	A	outside the programs), approximately what percentage of the facility's lighting was affected by those changes?	
12130	%	Percent	T12Intro
	101	Refused	T12Intro
	102	Don't know	T12Intro
		Zonomo	112111110
	US	E OF T12s AND AWARENESS OF T12 PHASE OUT	
		rould now like to ask you some questions about your familiarity with a	
T1014		ange in the law that affects the production and availability of certain less	
T12Intro		icient linear fluorescent lamps. LII = (4, 11) and LSP2 = (4, 20) skip to T12_1a	
		you currently use T12 fluorescent lamps for any of your lighting needs?	
These would be linear fluorescent tubes that are 1.5" in diameter or are			
T12_1 fatter/thicker than other linear fluorescent lamps.			
1	Ye	<u>*</u>	T12_1a
2	No		T12_1a
88	Re	fused	T12_1a
99	Do	n't Know	T12_1a

If LI101D = (4, 21) or LI20[A-C] = (4, 21) THEN SKIP TO T12_1b

Have you retrofitted any T12 linear fluorescent lighting systems to more energy efficient linear fluorescent lighting such as T8s or T5s within the last

Т1	2	1a	year?

1	Yes	T12_1b
2	No	T12_2
88	Refused	T12_2
99	Don't Know	T12 2

If T12_1 = 2 AND T12_1a = 2, GO TO CL1

If T12 1a = 1 or LINEAR = 1 or LF DELAMP = 1, ASK;

For what percent of the linear fluorescent lighting that you've retrofitted in the last year did you receive rebates from your utility? Your best estimate is

T12_1b fine.

77	RECORD percent	T12_2
101	Refused	T12_2
2	Don't Know	T12_2

IF T12_1 = 2, THEN SKIP TO T12_3. IF LI1 IN (4, 11) OR LSP2 = (4, 20), READ: "Earlier you mentioned that you use T12s or fat/thick linear fluorescent tubes for some of your lighting needs." ELSE CONTINUE WITH T12_2

Do you carry an inventory of T12 linear fluorescent lamps to use when your

T12_2 existing ones burn out?

1	Yes	T12_2a
2	No	T12_3
88	Refused	T12_3
99	Don't Know	T12_3
	II 1 1	

T12_2a How long do you estimate your inventory of T12 fluorescent lamps will last?

77	RECORD length of time	T12_3
88	Refused	T12_3
99	Don't Know	T12_3

Are you aware of the new law that came into effect in July of 2012 that has

T12_3 phased out the production of most T12 linear fluorescent lamps?

1	Yes	T12_5
2	No	T12_4
88	Refused	T12_4
99	Don't Know	T12_4

You may have heard that the Department of Energy has issued a mandate that prohibits the production of less efficient fluorescent lighting systems. As of last July, the production of many T12 lamps has been phased out.

T12 4 Does this sound familiar?

1	Yes	T12_5
2	No	T&T
88	Refused	T&T
99	Don't Know	T&T

How did you become aware of the law affecting the production of T12

T12_5 lamps? [ALLOW MULTIPLES]

112_0	mmps. [rees with easy	
1	From a lighting retailer/vendor	T12_6

2	Utility account representative	T12_6
3	Utility program representative	T12_6
4	Utility or program website	T12_6
5	Contractor	T12_6
6	Lighting manufacturer - if selected, ask which one and RECORD	T12_6
8	Energy services company	T12_6
9	Newspaper article	T12_6
10	Radio	T12_6
11	Internet	T12_6
12	Trade publication	T12_6
13	Conference	T12_6
14	Word of mouth	T12_6
15	Result of an audit	T12_6
77	Other (RECORD VERBATIM)	T12_6
88	Refused	T12_6
99	Don't know	T12_6

ASK IF LI101D IN (4, 21) OR LI20[A-C] IN (4, 21) OR T12_1a = 1; ELSE SKIP TO T12_20

Did you choose to replace your T12 lamps to higher efficiency linear

T12_6 fluorescent lighting because of the T12 phase out?

1	Yes	T12_7
2	No	T12_20
88	Refused	T12_20
99	Don't Know	T12_20

ASK IF $T12_6 = 1$

Do you think the T12 phase out has had an influence on your decisions to

T12_7 retrofit your T12 systems earlier than you otherwise would have?

1	Yes	T12_8
2	No	T12_20
88	Refused	T12_20
99	Don't Know	T12_20

How much earlier did you retrofit your T12 lighting systems due to the T12

T12_8 phase out?

1	6 months earlier than they would have	T12_10
2	between 6 months and 1 year earlier	T12_10
3	1 to 2 years earlier	T12_10
4	2 to 4 years earlier	T12_10
5	4 to 7 years earlier	T12_10
77	Other - RECORD	T12_10
88	Refused	T12_10
99	Don't Know	T12_10

On a scale of 0 to 10 where 10 means completely influential and 0 means not at all influential, how influential was the T12 phase out on your decision to

T12_10 retrofit your T12 lighting system?

77	RECORD 0 TO 10	T12_20
88	Refused	T12_20
99	Don't Know	T12_20

ASK IF T12_1 = 1 OR LI1 IN (4, 11) OR LSP2 IN (4, 20)

Because of the T12 phase out, have you thought about replacing your T12

T12 20	linear fluorescent	lighting to higher	efficiency linear	fluorescent lighting?

1	Yes	T12_21
2	No	T12_21
88	Refused	T12_21
99	Don't Know	T12_21

On a scale of 0 to 10 where 10 means extremely likely and 0 means not at all likely, how likely are you to replace your T12 fixtures with a lighting system that is the minimum allowable level of efficiency within the next year as a

T12_21 result of the T12 phase out?

77	RECORD 0 TO 10	T12_22
88	Refused	T12_22
99	Don't Know	T12_22

On a scale of 0 to 10 where 10 means extremely likely and 0 means not at all likely, how likely are you to replace your T12 fixtures with a lighting system that is better than the minimum allowable level of efficiency within the next

T12_22 year as a result of the T12 phase out?

77	RECORD 0 TO 10	T&T
88	Refused	T&T
99	Don't Know	T&T

OTHER END USES

ASK ALL

CL1 What type of equipment is used to cool this facility? (allow multiples)

1	No A/C	R1
	Split system	CL2
2	(two components; compressor is separate from the supply air fan, air conditioner, or heat pump)	
3	Packaged systems	CL2
3	(one component; rooftop units)	
4	Package Terminal A/C or Heat Pump	CL2
4	(e.g., Hotel/Motel units)	
5	Evaporative coolers	CL2
3	(swamp coolers)	
6	Water or Air Chiller	CL2
0	(Central plant)	
7	Window/Wall Units	CL2
77	Other (Specify)	CL2
88	Refused	CL2
99	Don't Know	CL2

If CL1 ^= 1; else skip to R1

CL2 What is the primary fuel used by this cooling equipment?

1	Electricity	R1
2	Natural Gas	R1
3	Both Electricity and Gas	R1
77	Other (PLEASE SPECIFY)	R1

88	Refused	R1
	Now I would like to ask you a couple of questions about your refrigeration	
	equipment.	
R1	What kinds of refrigeration equipment, if any, is present at your facility? [DO NOT READ]	
1	Residential Sized Refrigerator	G1
2	Residential Sized Freezer	G1
3	Larger Standard Refrigerator (>30 cubic feet)	G1
4	Self-Contained - Coffin/Horizontal Case	G1
5	Self-Contained - Vertical Case (multi shelf)	G1
6	Single-Deck display cases - Open single-deck	G1
7	Single-Deck display cases - Closed service case	G1
8	Single-Deck display cases - Island coffin/tub (shop around)	G1
9	Single-Deck display cases - Coffin/tub (one-side shopping)	G1
10	Multi-Deck (vertical) display cases - Open/reach-in multi-deck	G1
11	Multi-Deck (vertical) display cases - Glass-door cases	G1
12	Walk-Ins and Preparation Areas - Freezer/Low Temp	G1
13	Walk-Ins and Preparation Areas - Cooler/Med Temp	G1
66	NONE - no refrigeration equipment	G1
77	Other Refrigeration (Specify)	G1
88	Refused	G1
99	Don't know	G1
G1	Which of the following natural gas equipment is present at your facility?	
1	Water Heater	GH1
2	Furnace	GH1
3	Boiler	GH1
4	Stove	GH1
5	Clothes Dryer	GH1
66	NONE Don't use Natural Gas	GH1
77	Other (specify)	GH1
88	Refused	GH1
99	Don't know	GH1
GH1	Do you have greenhouses at your facility?	•
1	Yes	GH2
2	No	ST1
88	Refused	ST1
99	Don't know	ST1
	Ask if GH1 = 1; Else skip to ST1;	
GH2	How many square feet of greenhouses do you have at your facility?	
SQFT	Square feet	ST1
88	Refused	ST1
99	Don't know	ST1
ST1	Do you have steam traps at your facility?	•
1	Yes	ST2
2	No	M1
88	Refused	M1

99	Don't know	M1
	Ask if ST1 = 1; Else skip to M1	IVII
	How many steam traps are currently installed at your facility? Just a rough	
ST2	estimate would be fine.	
	Number of Steam traps	M1
88	Refused	M1
99	Don't know	M1
M1	Do you currently have any motors installed in your facility?	
1	Yes	M2
2	No	OT2
88	Refused	OT2
99	Don't know	OT2
	Ask if M1 = 1; Else skip to OT2;	
	How many motors are currently installed at your facility? Just a rough	
M2	estimate would be fine.	T
	Number of Motors	M3
88	Refused	M3
99	Don't know	M3
	What two or three applications account for most of the <i>motor</i> energy used in	
M3	your facility?	1
1	Pumping	OT2
2	Fans/Blowers	OT2
3	Compressed Air	OT2
4	Materials handling (conveyor belts)	OT2
5	Production process machinery	OT2
6	Ventilation/HVAC	OT2
7	Boiler fans	OT2
77	Other (Specify)	OT2
88	Refused	OT2
99	Don't Know	OT2
	Besides what we have already covered, since January 2009, have you added or replaced other equipment that is expected to significantly affect overall	
	energy consumption (This includes Refrigeration, Cooling, Heating, and Gas	
ОТ2	Equipment)?	
1	Yes	OT3
2	No	ALWAYS
88	Refused	ALWAYS
99	Don't know	ALWAYS
	Ask if OT2 = 1; Else skip to ALWAYS;	
ОТ2	Which of the following types of equipment were installed since January	&OTHEREQUIP
OT3	2010? (READ FIRST FOUR THEN ASK FOR OTHER)	1
1	Food Service Equipment	OT5
2	Water Heating Equipment	OT5
3	Outdoor Lighting Equipment	OT5
4	Compressed Air Equipment	OT5
5	Heating, Ventilation, Air Conditioning or other Cooling equipment	OT5
6	Refrigeration Equipment	OT5

7	Gas Equipment	OT5
77	Other (SPECIFY) – 1st mention	OT5
88	Refused	ALWAYS
99	Don't Know	ALWAYS
	For the first three equipment types mentioned in OT3, ask OT5 through OT18 Question name endings have e_# associated with the response # from OT3	
OT5	Please describe the type of &OTHEREQUIP1 that was installed?	
77	Record verbatim	OT6
88	Refused	OT6
99	Don't know	OT6
OT6	Please describe the quantity of &OTHEREQUIP1 that was installed?	
77	Record verbatim	OT7
88	Refused	OT7
99	Don't know	OT7
OT7	Please describe the efficiency level of &OTHEREQUIP1 that was installed?	
1	Standard Efficiency	OT10
2	High Efficiency	OT10
3	Energy Star	OT10
88	Refused	OT10
99	Don't know	OT10
OT10	In what year did you install OTHEREQUIP1?	
1	2009	OT11
2	2010	OT11
3	2011	OT11
88	Refused	OT18
99	Don't know	OT18
OT11	And can you recall which month? If cannot get month - ask for season	
1	January	OT18
3	March	OT18
4	April	OT18
5	May	OT18
6	June	OT18
7	July	OT18
8	August	OT18
9	September	OT18
10	October	OT18
11	November	OT18
12	December	OT18
13	Fall	OT18
14	Winter	OT18
15	Spring	OT18
16	Summer	OT18
88	Refused	OT18
99	Don't know	OT18

Ask if OT7 in (2-3); else skip to ALWAYS;

OT18 Did you receive a rebate for the purchase of &OTHEQUIP1?

1	Yes	ALWAYS
2	No	ALWAYS
88	Refused	ALWAYS
99	Don't know	ALWAYS

OPERATING HOURS

We are almost finished. The next few questions are to help us get a full understanding of your organization's operational hours.

Is your organization operation 24 hours a day,

ALWAYS 7 days a week?

1	Yes	HOLIDAYS
2	No	HOLIDAYS
88	Refused	HOLIDAYS

Does your facility closed for any holidays during the year? If so, which one(s)?

HOLIDAYS	during the year? If so, which one(s)?	
1	New Year's Day - January 1	DAYS
2	Martin Luther King Jr. Day - January 18, 2010 (3rd Monday in January)	DAYS
3	President's Day - February 15, 2010 (3rd Monday in February)	DAYS
4	Memorial Day - May 31, 2010 (Last Monday in May)	DAYS
5	Independence Day - July 4th (Or Surrounding Monday/Friday if July 4 is a weekend)	DAYS
6	Labor Day - September 6, 2010 (First Monday in September)	DAYS
7	Thanksgiving - November 26, 2010 (4th Thursday in November)	DAYS
8	Day after Thanksgiving	DAYS
9	Christmas Eve - December 24	DAYS
10	Christmas Day - December 25	DAYS
66	NO HOLIDAY CLOSURES	DAYS
77	Other - Specify	DAYS
88	Refused	DAYS
99	Don't Know	DAYS
	A LIGHT THAT OF DEC	

Ask if ALWAYS = 2; else skip to OS_REC;

Is your facility closed any of the 7 days of the

DAYS week? If so, which days are you CLOSED?

1	Monday	MONDAY_OPEN
2	Tuesday	MONDAY_OPEN
3	Wednesday	MONDAY_OPEN
4	Thursday	MONDAY_OPEN
5	Friday	MONDAY_OPEN
6	Saturday	MONDAY_OPEN

7	Cundar	MONDAY OPEN
7	Sunday	MONDAY_OPEN
66	Open EVERYDAY	MONDAY_OPEN
88	REFUSED	MONDAY_OPEN
99	DON'T KNOW	MONDAY_OPEN
	Ask if DAYS ~= 1; else skip to TUESDAY_OPEN; What time do you open your facility on	
MONDAY_OPEN	MONDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	MONDAY_CLOSE
88	REFUSED	MONDAY_CLOSE
99	DON'T KNOW	MONDAY_CLOSE
MONDAY_CLOSE	What time do you close your facility on MONDAY?	MONDAT_CEOSE
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	TUESDAY_OPEN
88	REFUSED	TUESDAY_OPEN
99	DON'T KNOW	TUESDAY_OPEN
	Ask if DAYS ~= 2; else skip to WEDNESDAY_OPEN; What time do you open your facility on	
TUESDAY_OPEN	TUESDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	TUESDAY_CLOSE
88	REFUSED	TUESDAY_CLOSE
99	DON'T KNOW	TUESDAY_CLOSE
TUESDAY_CLOSE	What time do you close your facility on TUESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	WEDNESDAY_OPEN
88	REFUSED	WEDNESDAY_OPEN
99	DON'T KNOW	WEDNESDAY_OPEN
	Ask if DAYS ~= 3; else skip to THURSDAY_OPEN; What time do you open your facility on	
WEDNESDAY_OPEN	WEDNESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	WEDNESDAY_CLOSE
88	REFUSED	WEDNESDAY_CLOSE
99	DON'T KNOW	WEDNESDAY_CLOSE
WEDNESDAY_CLOSE	What time do you close your facility on WEDNESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour	THIRD AV ODEN
	format by half hour as 1-24	THURSDAY_OPEN
88		THURSDAY_OPEN THURSDAY_OPEN

Ask if DAYS ~= 4; else skip to FRIDAY_OPEN;

THURSDAY_OPEN	What time do you open your facility on THURSDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	THURSDAY_CLOSE
88	REFUSED	THURSDAY_CLOSE
99	DON'T KNOW	THURSDAY_CLOSE
THURSDAY_CLOSE	What time do you close your facility on THURSDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	FRIDAY_OPEN
88	REFUSED	FRIDAY_OPEN
99	DON'T KNOW	FRIDAY_OPEN
	Ask if DAYS ~= 5; else skip to SATURDAY_OPEN;	
FRIDAY_OPEN	What time do you open your facility on FRIDAY?	1
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	FRIDAY_CLOSE
88	REFUSED	FRIDAY_CLOSE
99	DON'T KNOW	FRIDAY_CLOSE
FRIDAY_CLOSE	What time do you close your facility on FRIDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	SATURDAY_OPEN
88	REFUSED	SATURDAY_OPEN
99	DON'T KNOW	SATURDAY_OPEN
	Ask if DAYS ~= 6; else skip to SUNDAY_OPEN;	
SATURDAY_OPEN	What time do you open your facility on SATURDAY?	1
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	SATURDAY_CLOSE
88	REFUSED	SATURDAY_CLOSE
99	DON'T KNOW	SATURDAY_CLOSE
SATURDAY_CLOSE	What time do you close your facility on SATURDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	SUNDAY_OPEN
88	REFUSED	SUNDAY_OPEN
99	DON'T KNOW	SUNDAY_OPEN
	Ask if DAYS ~= 7; else skip to DIFF_SCHEDULE;	
SUNDAY_OPEN	What time do you open your facility on SUNDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	SUNDAY_CLOSE
88	REFUSED	SUNDAY_CLOSE
99	DON'T KNOW	SUNDAY_CLOSE

SUNDAY_CLOSE	What time do you close your facility on SUNDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	DIFF_SCHEDULE
88	REFUSED	DIFF_SCHEDULE
99	DON'T KNOW	DIFF_SCHEDULE
DIFF_SCHEDULE	Some organizations have different schedules for certain times of the year. Does your organization maintain a different schedule for certain months of the year?	
1	Yes	MONTHS
2	No	OS_REC
88	REFUSED	OS_REC
99	DON'T KNOW	OS_REC
MONTHS	Ask if DIFF_SCHEDULE = 1; Else skip to OS_REC; Which months of the year does the schedule vary from the times I just recorded?	
1	January	ALT_DAYS
2	February	ALT_DAYS
3	March	ALT_DAYS
4	April	ALT_DAYS
5	May	ALT_DAYS
6	June	ALT_DAYS
7	July	ALT_DAYS
8	August	ALT_DAYS
9	September	ALT_DAYS
10	October	ALT_DAYS
11	November	ALT_DAYS
12	December	ALT_DAYS
88	REFUSED	ALT_DAYS
99	DON'T KNOW	ALT_DAYS
ALT_ALWAYS	Is your organization operation 24 hours a day, 7 days a week?	
1	Yes	HOLIDAYS
2	No	HOLIDAYS
88	Refused	HOLIDAYS
ALT DAVE	If ALT_ALWAYS~=1 then ask; Else skip to OS_REC; During this alternate schedule, is your facility closed any of the 7 days of the week? If so,	
ALT_DAYS	which days are you CLOSED?	ALT MONDAY ODEN
1	Monday	ALT_MONDAY_OPEN
2	Tuesday	ALT_MONDAY_OPEN
3	Wednesday	ALT_MONDAY_OPEN
4	Thursday	ALT_MONDAY_OPEN
5	Friday	ALT_MONDAY_OPEN

Saturday

ALT_MONDAY_OPEN

7	Cyndox	ALT MONDAY ODEN
7	Sunday	ALT_MONDAY_OPEN
66	Open EVERYDAY	ALT_MONDAY_OPEN
88	REFUSED	ALT_MONDAY_OPEN
99	DON'T KNOW	ALT_MONDAY_OPEN
	Ask if ALT_DAYS ~= 1; else skip to ALT_TUESDAY_OPEN; For the alternate schedule, what time do you	
ALT_MONDAY_OPEN	open your facility on MONDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_MONDAY_CLOSE
88	REFUSED	ALT_MONDAY_CLOSE
99	DON'T KNOW	ALT_MONDAY_CLOSE
ALT_MONDAY_CLOSE	What time do you close your facility on MONDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_TUESDAY_OPEN
88	REFUSED	ALT_TUESDAY_OPEN
99	DON'T KNOW	ALT_TUESDAY_OPEN
	Ask if ALT_DAYS ~= 2; else skip to ALT_WEDNESDAY_OPEN;	
ALT_TUESDAY_OPEN	What time do you open your facility on TUESDAY during your alternate schedule?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_TUESDAY_CLOSE
88	REFUSED	ALT_TUESDAY_CLOSE
99	DON'T KNOW	ALT_TUESDAY_CLOSE
ALT_TUESDAY_CLOSE	What time do you close your facility on TUESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_WEDNESDAY_OPEN
88	REFUSED	ALT_WEDNESDAY_OPEN
99	DON'T KNOW	ALT_WEDNESDAY_OPEN
	Ask if ALT_DAYS ~= 3; else skip to ALT_THURSDAY_OPEN; What time do you open your facility on	
ALT_WEDNESDAY_OPEN	WEDNESDAY during your alternate schedule?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_WEDNESDAY_CLOSE
88	REFUSED	ALT_WEDNESDAY_CLOSE
99	DON'T KNOW	ALT_WEDNESDAY_CLOSE
ALT_WEDNESDAY_CLOSE	What time do you close your facility on WEDNESDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_THURSDAY_OPEN
88	REFUSED	ALT_THURSDAY_OPEN
99	DON'T KNOW	ALT_THURSDAY_OPEN
	Ask if ALT_DAYS ~= 4; else skip to	

Ask if ALT_DAYS ~= 4; else skip to ALT_FRIDAY_OPEN;

	What time do you open your facility on	
ALT_THURSDAY_OPEN	THURSDAY during your alternate schedule?	
	Record Time 1AM - 12:30 AM in 12 hour	ALT_THURSDAY_CLOSE
99	format by half hour as 1-24 REFUSED	ALT THIRDS AV CLOSE
88		ALT_THURSDAY_CLOSE
99	DON'T KNOW	ALT_THURSDAY_CLOSE
ALT_THURSDAY_CLOSE	What time do you close your facility on THURSDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_FRIDAY_OPEN
88	REFUSED	ALT_FRIDAY_OPEN
99	DON'T KNOW	ALT_FRIDAY_OPEN
	Ask if ALT_DAYS ~= 5; else skip to ALT_SATURDAY_OPEN; What time do you open your facility on	
ALT_FRIDAY_OPEN	FRIDAY during this alternate schedule?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_FRIDAY_CLOSE
88	REFUSED	ALT_FRIDAY_CLOSE
99	DON'T KNOW	ALT_FRIDAY_CLOSE
ALT_FRIDAY_CLOSE	What time do you close your facility on FRIDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_SATURDAY_OPEN
88	REFUSED	ALT_SATURDAY_OPEN
	DOME WHOM	ALTE CATEDRAN OPEN
99	DON'T KNOW	ALT_SATURDAY_OPEN
99	Ask if ALT_DAYS ~= 6; else skip to	ALI_SATURDAY_OPEN
99	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN;	ALI_SATURDAY_OPEN
99	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule	ALI_SATURDAY_OPEN
	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule you are also open on Saturday. What time do	ALI_SATURDAY_OPEN
ALT_SATURDAY_OPEN	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule you are also open on Saturday. What time do you open your facility on SATURDAY?	ALI_SATURDAY_OPEN
	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule you are also open on Saturday. What time do you open your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour	ALT_SATURDAY_OPEN ALT_SATURDAY_CLOSE
	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule you are also open on Saturday. What time do you open your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	ALT_SATURDAY_CLOSE
ALT_SATURDAY_OPEN	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule you are also open on Saturday. What time do you open your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour	
ALT_SATURDAY_OPEN 88 99	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule you are also open on Saturday. What time do you open your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24 REFUSED DON'T KNOW What time do you close your facility on	ALT_SATURDAY_CLOSE ALT_SATURDAY_CLOSE
ALT_SATURDAY_OPEN 88	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule you are also open on Saturday. What time do you open your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24 REFUSED DON'T KNOW What time do you close your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour	ALT_SATURDAY_CLOSE ALT_SATURDAY_CLOSE
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ALT_SATURDAY_OPEN 88 99	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule you are also open on Saturday. What time do you open your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24 REFUSED DON'T KNOW What time do you close your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24 REFUSED	ALT_SATURDAY_CLOSE ALT_SATURDAY_CLOSE ALT_SATURDAY_CLOSE ALT_SUNDAY_OPEN ALT_SUNDAY_OPEN
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ALT_SATURDAY_OPEN 88 99 ALT_SATURDAY_CLOSE	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule you are also open on Saturday. What time do you open your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24 REFUSED DON'T KNOW What time do you close your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24 REFUSED DON'T KNOW Ask if ALT_DAYS ~= 7; else skip to OS_REC; I recorded that during your alternate schedule you are also open on Sunday. What time do you open your facility on SUNDAY? Record Time 1AM - 12:30 AM in 12 hour	ALT_SATURDAY_CLOSE ALT_SATURDAY_CLOSE ALT_SATURDAY_CLOSE ALT_SUNDAY_OPEN ALT_SUNDAY_OPEN
ALT_SATURDAY_OPEN 88 99 ALT_SATURDAY_CLOSE 88 99	Ask if ALT_DAYS ~= 6; else skip to ALT_SUNDAY_OPEN; I recorded that during your alternate schedule you are also open on Saturday. What time do you open your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24 REFUSED DON'T KNOW What time do you close your facility on SATURDAY? Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24 REFUSED DON'T KNOW Ask if ALT_DAYS ~= 7; else skip to OS_REC; I recorded that during your alternate schedule you are also open on Sunday. What time do you open your facility on SUNDAY?	ALT_SATURDAY_CLOSE ALT_SATURDAY_CLOSE ALT_SATURDAY_CLOSE ALT_SUNDAY_OPEN ALT_SUNDAY_OPEN ALT_SUNDAY_OPEN

99	DON'T KNOW	ALT_SUNDAY_CLOSE
ALT_SUNDAY_CLOSE	What time do you close your facility on SUNDAY?	
	Record Time 1AM - 12:30 AM in 12 hour format by half hour as 1-24	OS_REC
88	REFUSED	OS_REC
99	DON'T KNOW	OS_REC

ONSITE RECRUITING

TO SCHEDULE INSTALLATION OF LIGHTING LOGGERS

If Logger_Flag = 1; Else Skip to Comment1

In order to improve this program's performance, &UTILITY would also like to make an accurate measurement of the energy savings associated with fluorescent lighting by collecting and analyzing information from selected customers.

If you agree to participate, Itron, on behalf of &UTILITY, will come to your business to install lighting logger devices on your lights to record when each light is in use. The lighting loggers would then be installed in an unobtrusive place and would be removed by us at the end of the research project. We expect the site visit to take about two hours. We'll come back and remove the logger devices within 3-6 months. Note, the electric use data will be used strictly for the study of the &Program and will not affect your electric service at all. You will need to sign a brief participation agreement.

LOG_REC Are you interested in participating in this project?

1	Yes	Comment2
2	No	Comment1
88	Refused	Comment1
99	Don't know	Comment1

TO SCHEDULE ONSITE VERIFICATION

As we've discussed, the &Program is an important component of the California Public Utilities Commission's ongoing efforts to save energy and reduce emissions affecting climate change. In order to improve this program's performance, the CPUC would like to make an accurate measurement of the energy savings associated with energy efficiency equipment installed by collecting and analyzing information from selected customers.

COMMENT1

Your input to this research is extremely important. By receiving a rebate through the &PROGRAM, your firm has agreed to allow verification of the installation of the equipment rebated through the program.

Our verification technician will need to meet a facilities representative of your company. This should be either the manager of the facility or part of the facilities staff.

COMMENT2

OS PHONE1

May I please have the name of the person who our technician can call

OS_NAME1 you to set up an appointment time?

77	Record Name	OS_PHONE1
99	Don't know	T&T

May I also have the best phone number for the technician to reach this person?

&OS_PHONE1	PHONE FOR PRIMARY CONTACT	OTHER
88	Refused	T&T
99	Don't know	T&T
99		1&1
OTHER	Is there another person that the engineer might speak with at your company, if this primary person is not available?	
&OTHER	Get name	OS_NAME2
88	Refused	T&T
99	Don't know	T&T
	May I please have their name so our technician can call them at	161
OS_NAME2	another time?	
&OS_NAME2	Get name	OS_PHONE2
- 88	Refused	T&T
99	Don't know	T&T
	May I also have the best phone number for the technician to reach	
OS_PHONE2	them?	
&OS_PHONE2	Get phone number	HB_Lift
88	Refused	T&T
99	Don't know	T&T
	Ask if HighBay_Flag = 1 or HB1>1=13 or HB2 = 1 or HB1a = 1; Else skip to VERIFY; Do you have some form or a lift or ladder available to reach the	
HB_Lift	lighting at your facility that is located 13ft or more above ground?	T
1	Yes	VERIFY
2	No	VERIFY
88	Refused	T&T
99	Don't know	T&T
OS_Business	Do you have a sign or business name other than &BUSINESS that our technicians should look for when they visit your site?	I
1	Yes	OS_Bus_name
2	No	Vendor_Name
88	Refused	T&T
99	Don't know	T&T
OS_Bus_Name	What is the sign or business name they should be looking for?	T
1	Get name	OS_REC
	You mentioned that you had a vendor/contractor that helped you with the installation of the lighting equipment that was installed through the 2010-2012 &IOU &PROGRAM program. Can you give me his or her name? !!Do you have his/her email address? !Do you have a phone number for him/her?	
VENDOR_NAME	!Do you have a cell phone number for him/her?	
77	RECORD NAME, Phone, Email ETC	VERIFY
88	Refused	VERIFY
99	Don't know	VERIFY
END.	Those are all the questions I have for today. Thank you for your time and help in this important study.	

Appendix B

WO29 Onsite Survey Instrument

Site ID #		
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Form	('(11/	HK

CPUC 2012 Non-Residential Lighting Evaluation On-Site Verification Survey Form

General Site Information (from phone s	survey & IOU tracking	database)
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		` '	,					
Itron SiteID								
Sample Strata			W	hat to Do				
Evaluation Phase			W	hat to Log				
			•					
Corporate (Multi-Site) N	lame							
Business Name (Trackii	ng Data)							
Actual Business Name								
Service Address								
City					Ž	Zip Code		
CORRECTIONS TO SIT	TE INFOR	MATION						
Revised Corp. (Multi-Sit	te) Name							
Revised Business Name	е							
Revised Service Addres	SS							
Revised City					Rev	ised 7in		

Site Contact Information

PS Completion D	ate:	Length (min)	Respondent:		Date of Install:	
	Contacted	Contact Name	Phone Number	Alternate Phone	Email Addr	ess
OS Primary						
OS Back-up						
OS Other						

Note: Use the "Contacted" check box to indicate the actual contact(s) for the site visit.

Scheduling Notes/Special Instructions for On-site Visit:	

Survey Tracking Information

Survey Company:		Assigned Surveyor's Initials:	
Survey Travel Mileage:	miles	Total <u>Travel</u> Time	hrs
Survey Duration (24 hr clock)	Start:	Survey Duration (24 hr clock)	End:
Total <u>Onsite</u> Time	hrs	Total Time to Fill Out Survey Form	hrs

	Date:	Initials
Field survey completed:	///	
Survey received from surveyor:	//	
Initial QC check completed:	//	
Survey sent back to surveyor (if needed):	///	
Received from surveyor (if needed):	///	
Itron QC completed:	///	
Data entry (DE) completed:	/ / /	
Logger extraction DE complete:	////	
Follow-up Logger Extraction DE complete:	///	

Form MEAS_SUM

IOU Tracking Data Measure Summary Sheet

This is a summary of all of the measures implemented at this site as extracted from the IOU tracking database. All of the measures listed here should also be found on the measure-level verification forms.

Measure Category	Meas ID	Measure Code	IOU MeasureName	Unit Basis	Rebated # of Units	Reference Meas Code

Lighting Other Description

Measure Code	Revised MeasureName Description	Rebated # of Units

Phone Survey Self-Reported Measure Counts for Calculated kWh Measures

CATI Measure Category-RebatedUnits-UnitBasis	Self Report # of Units

Phone Survey CFL-Specific Information

CATI Measure Category	Self Report % in Storage	% Installed outside this Facility				

<u>CFLs:</u> Self-Report # of CFLs bought Outside Program

Phone Survey High Bay Information

High Bay?	Max Fixture Height (ft)	Access to fixtures via lift or ladder?

Custom Measure Summary

Meas ID	Measure Name	Measure State	Activity Area	Unit Basis	Qty	Lamps per Fixture	Length	Type	Watts	
		İ								

Site ID #		_
Form SITEINFO, page	of	

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PRIMARY BUSINESS TYPE CODE (do not leave blank):		(Use codes from Business Type Table on next page)
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Phone Survey	Phone Survey Building Type:	FM050
	Detailed Building Type:	FM050a-j

Primary Product or Service: Give a brief description about the type of work and/or primary product/service. What is the primary activity(ies) that occur here and what makes this premise unique from other businesses of this type?	
Recent Survey Area Changes: Give a brief description about any changes made to this site since January 2009 that significantly impacted energy usage.	
Percent of Site Lighting Retrofitted: What percent of the site lighting was retrofitted? Describe whether it was almost all of the lighting or just certain areas.	

Fields in this table will be populated as much as possible with data from the phone survey. However, any fields that are blank should be completed during the on-site verification. Any fields that are incorrect should also be corrected.

1 0		,		,									
Electric Utility	PGE	SCE	SDGE	SMUD L	_ADV	VP OT				_			
Gas Utility	PGE	SCG	SDGE	AllElec/No	one	Propane	LBGO :	SWG OT					
Is this premise o	wner-occup	oied (O) or leas	sed (L)?				CC4	CC4 Revised			L	
How many full-t	ime equival	lent en	ployees	work at th	nis pı	remise?		FM070]	Revised			
What is the total occupied floor area of this premise? (exclude prkg garage)							CC2a / CC2b f	t ² F	Revised		ft²		
If the premise	has an enc	losed p	oarking	garage, wh	at is	the floor a	area?	ft²					
What percent of the total floor area is heated or cooled?						CC2c / CC2d	% F	Revised		%			
How many build	ings are par	rt of th	is premi	se?									
What year was th	nis business	establ	lished at	this locati	ion?			CC12a	F	Revised			
What year was the	ne majority	of the	facility	built?				CC8	F	Revised			
Cooling Type: 1=No A/C 2=Split-System 3=PkgRooftop 4=PTAC/PTHP 5=EvapCool 6=Chiller 7=IndivAC/HP 8=WLHP OT=Other							F	Revised					
Heating Fuel Type	: 1=Electric	2 =Ga	s 3 =Bo	h 4 =Prop	ane !	5 =None O	T=Other		F	Revised			
What kind of site is this? P = Part of a bldg B = Single building SM = Small CM = Campus (multi-bldg, subsampled bldgs) OT = Other						M = Small	multi-building						
For single, stand-a	alone building	gs or pa	artial buil	dings: Nun	nber (of stories/flo	ors						

Site ID #		
Form SEASONAL	OP, page	of

Premise-Level Schedule Definitions

New Year's Eve New Year's Day New Year's Day Celebrat Martin Luther King Day Presidents' Day St. Patrick's Day Easter Sunday Memorial Day Flag Day July 4 th	ed	July 4th Cei Labor Day Columbus I Veterans' D Thanksgivin Thanksgivin Christmas E Christmas I Christmas I Caesar Cha	Day Pay ng ng Friday Eve Day Day Celebrated	0000000
Other (1)		. , ,		
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Seasonal Operation Peroception Period Define seasonal operation period liffers significantly from normal periods, provide a brief description of the beginning the beginni	ds for significant periods <u>l</u> or <u>typical</u> business hours tion of the period (e.g. "sp	s and/or equipment oring break", "wint -12) and days for up	operation. To indicate sector break", "summer break to three time periods.	nt operatio sonal oper
Seasonal Operation Perion Define seasonal operation perion liffers significantly from normal veriods, provide a brief description oliday hours"), and list the beg	ds for significant periods <u>l</u> or <u>typical</u> business hours tion of the period (e.g. "sp	s and/or equipment oring break", "wint -12) and days for up Season	operation. To indicate sector break", "summer break to to three time periods. al Time Period	nt operatio sonal oper
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Site ID #		
Form BUS	HRS page	of

CPUC 2012 Non-Residential Lighting Of	Insite Verification Survey	Form
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Business Schedule Primary Business Hours

Define typical operation for <u>all</u> Day Types listed below and specify hours in military time (00 to 24). For partial (i.e. not full) operation days, also indicate the approximate % of full operation as Partial Op %.

Day Type	From Phone Survey	Corrected Business Hours	Closed All Day?	Open 24 hrs?	PartialOp%
Monday	from to	from to			
Tuesday	from to	from to			
Wednesday	from to	from to			
Thursday	from to	from to			
Friday	from to	from to			
Saturday	from to	from to			
Sunday	from to	from to			
Holidays	from to	from to			

□ N/A

Day Type	From Phone Survey	Corrected Business Hours	Closed All Day?	Open 24 hrs?	PartialOp%
Monday	from to	from to			
Tuesday	from to	from to			
Wednesday	from to	from to			
Thursday	from to	from to			
Friday	from to	from to			
Saturday	from to	from to			
Sunday	from to	from to			
Holidays	from to	from to			

Seasonal Operation Business Hours – Time Period 3

□ N/A

Day Type	Business Hours	Closed All Day?	Open 24 hrs?	PartialOp%
Monday	from to	Y N	Y N	
Tuesday	from to	Y N	Y N	
Wednesday	from to	Y N	Y N	
Thursday	from to	Y N	Y N	
Friday	from to	Y N	Y N	
Saturday	from to	Y N	Y N	
Sunday	from to	Y N	Y N	
Holidays	from to	Y N	Y N	

Site ID #		
FORM ACTAREA DEFS, page	of	

CPIIC 2012	Non-Residential	Lighting	Onsite	Verification	Survey Form
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Activity Area Definitions

Activity Area ID# Assignments Identify an Area ID# for each distinct Activity Area type within the surveyed area. Indicate each area on the Site Plan sketch, Form PREM_SKETCH. Also consider lighting system controls and operation when defining these areas.

Area ID#	Activity Area Code (AA Code)	Surveyor's Description of Area (include floor and Bldg identifiers if needed)	% of Total Premise Floor Area	Windows or Skylights	Conditioned Space Type Code	Total Qty of this Area Type On-site
1				W S		
2				W S		
3				W S		
4				W S		
5				W S		
6				W S		
7				W S		
8				W S		
9				W S		
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16				W S		
17				W S		
18				W S		
19				W S		
20				W S		
21				W S		
22				W S		
23				W S		
24				W S		
25				W S		

Conditioned Space Type Codes			
CH = Cooled & Heated CL = Only Co	oled HT = Only Heated	ECH = EvapCooled & Heated	ECL = Only EvapCool
NU = HVAC present but not used RF	= Refrigerated UN = Un	conditioned OU = Outside	OT = Other (describe in comments)

COMMENTS:		

Site ID #	
Form PREM_SKETCH, page _	of

CPIIC 2012	Non-Residential	Lighting	Onsita	Verification	Survey Form
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ise/S	Site.	Plan	ı ske	tch (com	men	ts:																			

Site	ID#		
Form PREM	SKETCH r	nage	of

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		•	•	•				•		•		•		•	•	•	•		•			•				•	•
Premise	/Site	-Pla	n sk	etch	com	men	ıts:																				

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Hourly Operation Schedules

Use this form if equipment operation is independent of Business Hours <u>as indicated on Form BUS_HRS</u>. Use one block for each end use. Indicate the applicable daytypes for each day type schedule, and account for all day types including holidays. Specify the % of max. occupancy or equipment-on for all time periods, and be sure to accurately capture <u>transition periods</u>. Pay attention to lighting control type as a separate schedule is needed for different control types.

Hour		12-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12
Schedule #_			LtgCtı	rIType	:	_	Des	criptio	n				
Applicable DayT						Equipmer							
MTWTFSSH	AM												
	PM												
MTWTFSSH	AM												
	PM												
MTWTFSSH	AM												
	PM												
MTWTFSSH	AM												
	PM												
Schedule #_			LtgCt	rlType):	_	Des	criptic	on				
Applicable DayT	ypes				% E	Equipmer	nt On						
MTWTFSSH	AM												
	PM												
MTWTFSSH	AM												
	PM												
MTWTFSSH	AM												
	PM												
MTWTFSSH	AM												
	PM												
Schedule #_			LtgCt	rlType):	_	Des	criptio	on				
Applicable DayT	ypes				% E	Equipmer	nt On						
MTWTFSSH	AM												
	PM												
MTWTFSSH	AM												
	PM												
MTWTFSSH	AM												
	PM												
MTWTFSSH	AM												
	PM												

Site ID #		
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Hourly Operation Schedules

Use this form if equipment operation is independent of Business Hours <u>as indicated on Form 7a/b</u>. Use one block for each end use. Indicate the applicable daytypes for each day type schedule, and account for all day types including holidays. Specify the % of max. occupancy or equipment-on for all time periods, and be sure to accurately capture <u>transition periods</u>.

Hour		12-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12		
Schedule #_		LtgCtrlType: Description													
Applicable DayT	ypes				% I	Equipme	nt On								
MTWTFSSH	AM														
	PM														
MTWTFSSH	AM														
	PM														
MTWTFSSH	AM														
	PM														
MTWTFSSH	AM														
	PM														
Schedule #_			LtgCt	rlType):		Des	cription	on						
Applicable DayT	ypes				% I	Equipme	nt On								
MTWTFSSH	AM														
	PM														
MTWTFSSH	AM														
	PM														
MTWTFSSH	AM														
	PM														
MTWTFSSH	AM														
	PM														
Schedule #_			LtgCt	rlType):	_	Des	cription	on						
Applicable DayT	ypes				% I	Equipme	nt On								
MTWTFSSH	AM														
	PM														
MTWTFSSH	AM														
	PM														
MTWTFSSH	AM														
	PM														
MTWTFSSH	AM														
	PM														

Site ID # _		
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Lighting Logger Installation Form

Use this table to record information for installed measurement devices such as lighting loggers.

Installation Date	Extraction Date	
Installer's Initials	Extraction Initials	
Scheduled Extraction Date		

Installation

Logger Serial Number																		
Primary or Backup Logger?		P	В		P	В		P	В			P	В			P	В	
Placement Area ID# (ref only)																		
Lighting Tech Type (HIM)	CF LF	HID	LED HB	CF LF	HID	LED HI	CF L	F HID	LED	НВ	CF LF	HID	LED	HB	CF LF	HID	LED	HB
Logger Placement on Fixture	I (nt)	E(xt)	O(ther)	I (nt)	E(xt)	O(ther)	I (nt)	E(xt) O (tl	her)	I(nt)	E(xt)	O(th	er)	I(nt)	E(xt)	O(the	er)
Placement Description Include building, floor, room #, etc. and be descriptive enough that it can be located for extraction.																		
Schedule #																		

Extraction

Logger Intact? See Legend Belo	Y N L P	Y N L P	Y N L P	Y N L P	Y N L P
Logger Tested "OK" (On/Off)	Y N NA				
% "ON" Time	%	%	%	%	%
Extraction Comments					
Logger Date&Time (HH:MM)					
Computer Date&Time (HH:MM)					
Alternate Extraction Date					

Logger Intact: "Y" – If logger is as originally installed, does <u>not</u> appear to be tampered with, and display indicates the logger is working **Logger Tested "OK"** – <u>If Logger Intact was "Y"</u> then <u>is it</u> properly logging the light ON/OFF, "Y" or "N"? <u>If Logger Intact was "N"</u> use "NA"

LOGR_INST

Site ID # _		
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Lighting Logger Installation Form (continued)

Use this table to record information for installed measurement devices such as lighting loggers.

Installation

Logger Serial Number															
Primary or Backup Logger?		P B		P	В		P	В			P	В		P	В
Placement Area ID# (ref only)															
Lighting Tech Type (HIM)	CF LF	HID LED HB	CF LF	HID	LED HB	CF LF	HID	LED H	B C	F LF	HID	LED HB	CF LF	HID	LED HB
Logger Placement on Fixture	I (nt)	$\mathbf{E}(\mathbf{xt})$ $\mathbf{O}(\mathbf{ther})$	I (nt)	E(xt)	O(ther)	I (nt)	E(xt)	O(ther)		I (nt)	E (xt)	O(ther)	I (nt)	$\mathbf{E}(xt)$	O(ther)
Placement Description															
Include building, floor, room #,															
etc. and be descriptive enough															
that it can be located for															
extraction.															
Schedule #															

Extraction

Logger Intact? (L=Lost/missing)	Y	N I	L P	Y	N	L P		Y	N L	. Р	Y	N I	. <i>P</i>	Y	N I	. <i>P</i>
Logger Tested "OK" (On/Off)	Y	N	NA	Y	N	NA		Y	N	NA	Y	N	NA	Y	N	NA
% "ON" Time			%				%			%			%			%
Extraction Comments																
Logger Date&Time (HH:MM)																
Computer Date&Time (HH:MM)																
Alternate Extraction Date																

Logger Intact: "Y" – If logger is as originally installed, does <u>not</u> appear to be tampered with, and display indicates the logger is working **Logger Tested "OK"** – <u>If Logger Intact is "Y"</u> then is it properly logging the light ON/OFF, "Y" or "N"? <u>If Logger Intact is "N"</u> use "NA"

LOGR_INST

Site ID # _		
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Lighting Logger Installation Form (continued)

Use this table to record information for installed measurement devices such as lighting loggers.

Installation

Logger Serial Number															
Primary or Backup Logger?		P B		P	В		P	В			P	В		P	В
Placement Area ID# (ref only)															
Lighting Tech Type (HIM)	CF LF	HID LED HB	CF LF	HID	LED HB	CF LF	HID	LED H	IB	CF LF	HID	LED HB	CF LF	HID	LED HB
Logger Placement on Fixture	I (nt)	$\mathbf{E}(\mathbf{xt})$ $\mathbf{O}(\mathbf{ther})$	I (nt)	E(xt)	O(ther)	I (nt)	E (xt)	O(ther))	I(nt)	E (xt)	O(ther)	I (nt)	E(xt)	O(ther)
Placement Description Include building, floor, room #, etc. and be descriptive enough that it can be located for extraction.															
Schedule #															

Extraction

Logger Intact? (L=Lost/missing)	Y	N	L P	Y	N	L P		Y	N I	. <i>P</i>	Y	N I	L <i>P</i>	Y	N I	L <i>P</i>	
Logger Tested "OK" (On/Off)	Y	N	NA	Y	N	NA		Y	N	NA	Y	N	NA	Y	N	NA	
% "ON" Time			%				%			%			%				%
Extraction Comments																	
Logger Date&Time (HH:MM)																	
Computer Date&Time (HH:MM)																	
Alternate Extraction Date						·											

Logger Intact: "Y" – If logger is as originally installed, does <u>not</u> appear to be tampered with, and display indicates the logger is working **Logger Tested "OK"** – <u>If Logger Intact is "Y"</u> then is it properly logging the light ON/OFF, "Y" or "N"? <u>If Logger Intact is "N"</u> use "NA"

LOGR_INST

Site ID #			
Form CEI	naga	of	

CFL Compact Fluorescent Lighting Measures

	Meas	Cotegory	Category CFL_MeasCategory											
		Measure Code			S_MeasCode									
IOU	IV.	leasure Name			S_MeasName									
Tracking			Rebated #of Units			_IOUUn								
Data			IOU <u>Unit Basis</u>	_	(CFL_IOU	UnitBas	IS						
			t Basis (if incorrect above above											
		Can Rebate	ed measures be clearly identified			Y	N							
			Inside or outside ligh	_		I	0							
			Total number of fix											
Visual			Number of lamps per fi											
Verification			Total number of l	_										
Data			Ltg Application Type											
Duu			Fixture Mount Type											
			Ltg Control											
			Multilevel: Fixture or Lamp switch			ML-F	ML-L	NA		1				
		-	tional # of units (ex post quanti					#						
			r estimation used?			Y	N							
Verification			off (basis may be different than IO											
Counts	-		ut in partial operation fixtures											
			(broken/entire fixture burned-	e	#									
		Units in Storage				Y	N	#						
		•	ticker observed on packages?	/ 1										
		ieck box if Lan	nps/Fixtures are <u>NOT</u> accessible											
			Number of unit	s pnys		ctea	***							
			*If more than one type		Primary		*Secondary							
			Lamp Wattage Make/Manufacturer											
Physical			Model/Lamp Code											
Inspection			Energy Star Observed											
Data			CFL Lamp Shape Code											
	D	allast configure	ation: M=Modular I=Integral		М Т			- M	т .					
	D D	anast configura	ation. Wi–Modulai 1–integral	n 1	MI	10	D 14	M	I	10				
			Lamp Base Type Code:	P M	_	MO T	P M ADP			10 r				
			# of lamps	AD	1 0024 0	-	ADI	<u> </u>	24 O.					
		Is no	ost-installation operation the same	e as pr	e-retrofit on	eration'	?	Y	N					
		15 p	If pre-retrofit operation was	-				- 11						
Baseline Sy	stem	Approxi	mate age of existing lighting syst											
Summary		прргол	mate age of existing lighting syst	cm pm	Lamp Ty									
(Observe						Wattage								
Self-Repor	rted)				Control Ty	_								
			Ni	ımher	of lamps pe									
	, ,	D 1 4 1							ОТ					
0	bserved vo		# of Units is: E=Equal M=More L=				E M	L	OT					
If Disposition N			d # of rebated units onsite (probe	for reb	oated under	10-12)								
Site Contact/Se		-	ased since rebated units installed											
Question	ns	(D) # of units	located at Other Affiliated Sites							#				

Site ID #	_
Form CFL, page of	

CPIIC 2012	Non-Residential	Lighting	Onsite Veri	ification Surve	v Form
C1 C C 2012	TYON-INESIMETHIAL	Ligiting	Onsile veri	fication surve	y I OIIII

Failed (and Replaced)	How long did units typically operate before failure (months)?	
Rebated Units	(E) # of rebated units that Failed, but replaced w/ incandescent	#
(Indirect/Self-Report)	# of rebated units that Failed but were replaced in-kind (Ref)	
Damarad Dahatad Unit	(F) # of rebated units that were Removed and not replaced	#
Removed <u>Rebated</u> Unit (Indirect/Self-Report)	When were the units removed? (month/year if possible)	
(mulrect/Sen-Report)	Describe why units were removed in comments	
	(Sum A-F) Total # of units accounted for on-site	(reqd)
	# that were rebated by other programs/projects?	
Total # of units (A-F) MOF	# that were purchased at Retailer?	
than Rebated # of Units	# that were received from utility give-away program?	
	# that were obtained from OTHER means (describe in comments)?	
Total # of units (A-F) LES	# of rebated units, other site contact explanation (note in comments)	
than Rebated # of Units	# of rebated units, unaccounted for	

CFL – Activity Area Assignment Table

		- ^ -	1 -
I\Л	easur	'ם ו	aa.
IVI	casui	てしい	u c .

Use this table to associate CFL # of units to Activity Areas, equipment operation schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the total # of installed and operational units in the table above.

Area ID#	Sched #	Item #	Primary or Secondary Type	Control type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
						%	<= Totals # of Instal	led & O	perational Units che	ck (no data entry)

Comments:			

Linear Fluorescent Lighting Measures

	Measure Category		LINFLUOR	_MeasCatego	ory	
	Measure Code		LINFLUOR_	_OS_MeasCo	ode	
	Measure Name		LINFLUOR_	OS_MeasNa	me	
IOU		Rel	oated #of Units	LIN	FLUOR_IOUU:	nitQtyRebated
Tracking			IOU <u>Unit Basis</u>	1	LINFLUOR_IO	UUnitBasis
Data	Correct	t <u>Unit Basis</u> (if incorrec	ct above above)			
	Can R	ebated measures be cle	early identified?		Y	N
		ELAMP Measure Code				
	All associated CASC	CADE Measure Code(s)	. 0 11			
]	Inside or outside li]	0
			Ceiling hei			
		Fixt	ure height from flo			
			Total number of	 		
		<u>PREDOMINA</u>	NT # of lamps per			
Visual			Total number of			
Verification			in ft. (e.g. 1.5 2			
Data			be Diameter (T5 7		T8	T5 T12
		Special fixture typ]	D T
		Multilevel: F	ixture or Lamp sw		ML-F	ML-L NA
			Ltg Application			
			Fixture Mount ty			
	(A) Installed & Ones	national # of units (or	Shiny/polished re	effector?	<u> </u>	Y N
	- · ·	rational # of units (ex g or estimation used?	post quantity)		-	Y N
Verification		ed off (basis may be dif	forant than IOI I is	nit bosis)	-	1 11
Counts		d out in partial operation		iiit vasis)	-	
Counts		ole (broken/entire fixt		Unite in n	lace	
	(C) # of Rebated Unit	•	are burneu-out)	Omto in p	iacc	
		: if Lamps/Fixtures are	NOT accessible (explain in	comments)	
	Check box	ij Europs/1 www.es are	Number of units			<u> </u>
					np Wattage	
	Lamp	Make/Manufacturer			<u> </u>	
		np Model/Lamp Code				
Physical		Ballst type: M	=Magnetic E =Ele	ectronic A=	=Advanced	M E A
Inspection				Ballast '	Type Code	
Data	Predominant	Fixture Type: # of ba	llasts per fixture			
			Ballast Model #			
			nufacturer/Brand			
	Secondary	Fixture Type: # of ba	_			
			Ballast Model #			
			nufacturer/Brand			
	Is	post-installation opera	-		-	Y N
		If pre-retrofit o	peration was diffe		-	
Baseline System					Type Code	
Summary Data	1				np Wattage	
(Observed or			1 7 3 4=-		type Code	
Self-Reported)	<u> </u>	T	ube Length and D			
		D. II			per fixture	
		Ballast typ	e: M=Magnetic E=	Electronic	A=Advanced	M E A

Site ID #		_
Form LINFLUOR, page	of	

Observed vo	ersus Rebated # of Units is: E=Equal M=More L=Less OT (describe)	M	L	OT
If Disposition Not Equal:	Self-Reported # of rebated units onsite (probe for rebated under 10-12)			
Site Contact/Self-Report	Others purchased since rebated units installed			
Questions	(D) # of units located at Other Affiliated Sites			
Failed (and Replaced)	How long did units typically operate before failure (months)?			
<u>Rebated</u> Units	(E) # of rebated units that Failed, but were replaced w/different tech	ı		
(Indirect/Self-Report)	# of rebated units that Failed but were replaced in-kind (Ref)			
Removed Rebated Units	(F) # of rebated units that were Removed and not replaced			
(Indirect/Self-Report)	When were the units removed? (month/year if possible)			
	Describe why units were removed in comments			
	(Sum A-F) Total # of units accounted for on-site			(reqd)
Total # of units (A-F) MORE	# that were rebated by other programs/projects?			
than Rebated # of Units	# that were obtained from OTHER means (explain in comments)?			
Total # of units (A-F) LESS	# of rebated units, other site contact explanation (note in comments)			
than Rebated # of Units	# of rebated units, unaccounted for			

near - Activity Area Assignment Table (AAAT

Measure Code:

Use the AAAT below to associate lighting units to Activity Areas, equipment oper. schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the total # of Installed and Operational units in the table above.

- If ONLY FIXTURE **DENT LL**: Only fill out **AAAT** below.
- If DENT LL & (DENT CT or HOBO): Fill out AAAT with logger info & the HIGHBAY Form for Panel Metering
- If ONLY PANEL METERING: Check N/A box and only fill out HIGHBAY Form.

Circle all that apply: (If Verify Only, circle 'NA', and fill out AAAT)

Metering Type: DENT LL DENT CT HOBO NA
--

□ N/A

Area ID#	Sched #	Item #	Control Type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%	<= Total # of Installed &	& Opera	tional Units check (no d	lata entry)

Comments (for delamping, explain how counts were confirmed: tombstone shadows observed, etc.):							

Site ID #		_
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Baseline Technology Characterization

Approximate age of existing lighting system prior to retrofit (years)			
Prior to retrofit, if original lamps were replaced, were they replaced with Energy Saver lamps?	Y	N	1
Since original fixtures were installed, approximately how many ballasts had been replaced?			
Were the replacement ballasts Magnetic, Electronic or Advanced?	M	E	A
What % of the originally installed fixtures had ballasts replaced since July 2010?			
Condition of original fixtures prior to retrofit (Good, Fair, Poor)	G	F	P
What % of original fixtures were completely burned out?			
What % of original fixtures were partially burned out?			
On a scale of 1-10, Please rate the following topics on their level of influence for retrofitting the lighting f	ixture	es:	
Burned out fixtures			
Adequate lighting levels			
Major Renovation / Re-Modeling			
Safety of Occupants			
Productivity of Occupants			
Lowering energy consumption and energy bills			
Going green			
Utility Incentive			
Other (describe in comments)			
Considering all of the influential factors above, in the absence of an energy efficiency rebate program: How long would you have continued to operate the original fixtures before replacing them? (years)			

Comments:			

Site ID #		
Form DELAMP, page	of	

Delamping Lighting Measures

Delamping	j Eigiling mea	34103						
	Measure Category							
	Measure Code							
IOU	Measure Name		LAMP_O	S_MeasName				
Tracking		Rebated #of Units		DELAMP_IOUUnitQ	tyRebated			
Data		IOU <u>Unit Basis</u>		DELAMP_IOUUn	itBasis			
		Basis (if incorrect above above)						
		d measures be clearly identified?		Y N				
	Associated LINFLUC	OR Measure Code (if applicable)		T				
		Inside or outside lig		I	0			
		Ceiling heigh						
		Fixture height from floo						
		Total number of fi						
		Number of lamps per f						
Visual		Number of delamped lamps per f						
Verification		Total number of Tube Length in ft. (e.g. 1.5 2 3						
Data								
		5 T12						
	Specia	T						
		L-L NA						
		Fixture Mount type Shiny/polished refle						
	=	N						
		nits (ex post quantity = Installed	d & Op	erable)	¥7			
	Was subsampling	Y N						
Verification	# <u>fixtures</u> switche							
Counts	# of <u>lamps</u> burned							
	(B) # of Non-Operat							
	(C) # of Rebated Unit							
		if Lamps/Fixtures are <u>NOT</u> access r of fixtures physically inspected (Ш			
	Numbe							
	Installed Lamp	Make/Manufacturer	IIIst	alled Lamp Wattage				
	•	p Model/Lamp Code						
Physical	Instance Built	Ballst type: M =Magnetic	E=Elec	ctronic A =Advanced	M E A			
Inspection		g.		Ballast Type Code	171 E 11			
Data	Predominant	Fixture Type: # of ballasts per fix	xture	71				
		Ballast Mo						
		Ballast Manufacturer/B	Brand					
	Secondary	Fixture Type: # of ballasts per fix	xture					
	·	Ballast Mo	del#					
	Ballast Manufacturer/Brand							
Baseline Syster	n Is	Ballast Manufacturer/B post-installation operation the sam		e-retrofit operation?	Y N			

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CPUC 2012 Non-Residential Lighting Onsite Verification Survey For	CPUC 2012 Non-	-Residential	l Lighting	Onsite V	'erification	Survey Forn
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	Approximate age of existing lighting system prior to retrofit (years)				
	Lamp Type Code				
	Lamp Wattage				
	Tube Length and Diameter (e.g. 4ft T12)				
	Number of lamps per fixture				
	Ballast type: M=Magnetic E=Electronic A=Advanced		M	E	A
C	bserved versus Rebated # of Units is: E=Equal M=More L=Less OT (describe)	Е	M	L	OT
If Disposition Not Equ	al: Self-Reported # of rebated units onsite (probe for rebated under 10-12)				
Site Contact/Self-Rep	<u> </u>				
Questions	(D) # of units located at Other Affiliated Sites				
Failed (and Replace	d) How long did units typically operate before failure (months)?				
Rebated Units	(E) # of rebated units that Failed, but were replaced w/different tech				
(Indirect/Self-Repo	# of rebated units that Failed but were replaced in-kind (Ref)				
Removed Rebated U	nits (F) # of rebated units that were Removed and not replaced				
(Indirect/Self-Repo	· · · /				
(Sum A-F) Total # of units accounted for on-site					reqd)
Total # of units (A-F) M	ORE # that were rebated by other programs/projects?				
than Rebated # of U					
Total # of units (A-F) I					
than Rebated # of U	# of rebated units, unaccounted for				

Delamping – Activity Area Assignment Table

Measure Co	de:
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For fixtures that are covered by both a LF and a Delamping measure, the logger information should be recorded on the LF form and copied below, making sure to check all <u>Ref. Logger</u> boxes. Use this table to associate lighting units to Activity Areas, equipment operation schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the total # of installed and operational units in the table above.

Area ID#	Sched #	Item #	Control Type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%	<= Total # of Installed &	& Opera	tional Units check (no a	lata entry)

Comments (for delamping, explain how counts were confirmed: tombstone shadows observed, etc. and any discrepancies in
observed versus rebated quantities):

Site ID #		
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Occupancy Sensor Lighting Measures (1 of 2): Verification Totals

NOTE: If any lighting measures are associated with the Occupancy Sensors, <u>FIRST</u> fill out the lighting measure forms, then fill out this form, making sure to link the Occ. Sensor **Item #'s** to the other measure forms.

	Measure Category LIGHTINGCONTROL_MeasCategory					
		sure Code		INGCONTROL_OS_MeasCode		
IOU	Meas	ure Name	LIGHT			
Tracking			Rebated #of Units	LIGHTINGCONTROL_IO	UUnitQtyRe	bated
Data			IOU <u>Unit Basis</u>	LIGHTINGCONTROL_	_IOUUnitBas	sis
			Basis (if incorrect above above)			
	C	an Rebated	measures be clearly identified?	Y N		
				r Outside Occupancy Sensors	I	0
Verification			Installed & Operational # of O			
Counts and		**		sampling or estimation used?	Y	N
Physical		Number	of Non-Operable (broken/non-			
Inspection			Occupanc	y Sensor Make/Manufacturer Occupancy Sensor Model		
Data			Number of	Units in Storage/Spares (C)		
		Check hox	t if Lamps/Fixtures are <u>NOT</u> acco			
		Check box		of units physically inspected		
				otal Nominal Lamp Wattage:		
Controlled Wattage (Sum of All (F)'s from the Controlled Watts Detail tables)						
Observed versus Rebated # of Units is: E=Equal M=More L=Less OT (describe)					E M	L OT
If Disposition N	Not Equal:	Self-Repo	orted # of rebated units onsite (pro	obe for rebated under 10-12)		
Site Contact/Self-Repor		Others purchased since rebated units installed				
Questio	ons	(D) # of units located at Other Affiliated Sites				
Failed (and R	Replaced)	How lon	g did units typically operate befo	re failure (months)?		
Rebated 1		(E) # of rebated units that Failed, but were replaced w/different tech				
(Indirect/Self	-Report)	# of rebated units that Failed but were replaced in-kind (Ref)				
		(F) # of 1	rebated units that were Removed	and not replaced		
Removed Reba		When	were the units removed? (month	n/year if possible		
(Indirect/Self	-Keport)	Descr	ibe why units were removed in co	omments		
			(Sum A-F) Total # of	units accounted for on-site		(reqd)
Total # of uni		# that we	ere rebated by other programs/pro	pjects		
MORE than Re Units		# that we	ere obtained from OTHER means	(explain in comments)		
Total # of units (ted units, other site contact expla	` • ·		
than Rebated			ted units, unaccounted for	,		
Comments:						

Site ID #		
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Occ. Sensor Ltg Measures (2 of 2): Controlled Watts Detail Measure:____

Control Information	-). 00	TICI OIIC	Ju	vatts	Deta		Meas	ui 6		
OccupancySensor	Itom #				I			I		
Associated Panel Meter Item #: (if appl										
Installed & Operational (OP) or Non-Operable		OP	N-0	ΩP	OP	N.	-OP	OP	N-	OP
Inside or Outside Occupancy Se		I	C		I			I		
Area ID # / S		1	Т	,	1	$\overline{}$	<u> </u>	1		<u>'</u>
Control Typ			<u> </u>			l			<u> </u>	
Control Time Delay (n										
If Non-Operable, Control Type Code now controlling	,									
Were sensors added to a non -retroffited lighting s		Y	1	N	Y		N	Y	1	N
Associated Lighting Measure Code(s) If 'N' & appl	•			.,				1		.,
Lamp Typ						<u> </u>			<u> </u>	
Total # of Controls represented here:	(A)									
# of Fixtures on EACH control	(B)									
# of Lamps Per Fixture Controlled by Occ. Sensor	(C)									
# of Lamps per										
Total number of lamps burnt out										
Number of Fixtures physically in										
Lamp Make/Manuf										
*	Model									
Lamp Wattage	(E)									
Total Controlled Lamp Wattage: (A*B*C*E)-(D*E)	(F)									
Tube diameter (T8										
	st type:	М	E	A	М	Е	A	М	E	A
Ballast Typ	* *									
# of Ballasts per	fixture									
Ballast Manufacturer	r/Brand									
Ballast N	/Iodel #									
Baseline System Summary Data (observed or self-epo	rted)									
Pre-retrofit Control Typ										
(<i>required</i>) Pre-retrofit operation S										
Approximate age of existing lighting system prior to	retrofit									
Logger Information										
Logger Type: ($DCT = DENT \ CT, \ H = HOBO, \ DLL = DECT \ DEC$	ENT LL)	DCT	Н	DLL	DCT	Н	DLL	DCT	Н	DLL
Primary Logg	er S/N:									
Reference I										
(Check if logger info already exists on this form or a										
Backup Logg										
	HOBO									
CT Amp size	HOBO									
Com	ments:									
(Make sure to provide detailed comments about th information above and/or logger, if it is associated with measures, Acitvity Area Assignement Tables, or Par Metering)	other									

LTCTR

Site ID #	 	
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Fo	rm HID	nage	of

HID High Intensity Discharge Lighting Measures

	Measure Category		HID_N	MeasCategory	
	Measure Code				
IOU	Measure Name				
Tracking		Rebated		HID_IOUUnitQtyl	Rebated
Data			Jnit Basis	HID_IOUUnitI	Basis
		Basis (if incorrect above			
	Can Rebated	d measures be clearly id	dentified?	Y N	
			outside lighting		0
			Lamp Type Cod		
			eiling height in ht from floor in		
¥721			umber of fixture		
Visual Verification			lamps per fixtui		
Data		Multilevel: Fixture or			L-L NA
Dutu			number of lamp		E-L NA
			ontrol Type Cod		
			Application Cod		
		Fixture	Mount type cod	e	
	(A) Installed & Op	perational (or delamp	ed) # of units (e	x post quantity)	
	Was subsampli	Y N			
Verification Counts	# <u>fixtures</u> switched off (basis may be different than IOU unit basis)				
	# of <u>lamps</u> burned out in partial operation fixtures				
	(B) # of Non-Operable (broken/entire fixture burned-out) Units in place				
		nits in Storage/Spares			_
	Check box	if Lamps/Fixtures are		(explain in comments) ts physically inspected	
	Lamr	Make/Manufacturer		Lamp Wattage	
	•	p Model/Lamp Code			
	Lan		=Magnetic E =F	lectronic A =Advanced	M E A
Physical				Ballast Type Code	N1 12 11
Inspection Data	Predominant	Fixture Type: # of ba	llasts per fixture	**	
			Ballast Model #	:	
			ufacturer/Brand		
	Secondary	Fixture Type: # of ba	_		
			Ballast Model #		
			ufacturer/Brand		I
	Is	post-installation opera			Y N
7 . 11 . G .	Annro	If pre-retrofit of ximate age of exisiting	•	ferent, specify Sched #	
Baseline System Summary Data	Аррго	Aimate age of existing	ngning system	Lamp Type Code	
(Observed or				Lamp Wattage	
Self-Reported)		Tı	the Length and I	Diameter (e.g. 4ft T12)	
,		10	_	per of lamps per fixture	
		Ballast typ		E=Electronic A =Advanced	M E A
0	bserved versus Reba	ated # of Units is: E=Eq			•

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CPIIC 2012	Non-Residential	Lighting	Onsite	Verification	Survey Form
CI 0 C 2012	- Ivon-Resideniai	Ligning	Onsue	verincunon	Survey Form

If Disposition Not Equal:	Self-Reported # of rebated units onsite (probe for rebated under 10-12)	
Site Contact/Self-Report	Others purchased since rebated units installed	
Questions	(D) # of units located at Other Affiliated Sites	
Failed (and Replaced)	How long did units typically operate before failure (months)?	
Rebated Units	(E) # of rebated units that Failed, but were replaced w/different tech	
(Indirect/Self-Report)	# of rebated units that Failed but were replaced in-kind (Ref)	
Danis and J. Dalis As J. Harles	(F) # of rebated units that were Removed and not replaced	
Removed Rebated Units	When were the units removed? (month/year if possible)	
(Indirect/Self-Report)	Describe why units were removed in comments	
	(Sum A-F) Total # of units accounted for on-site	(reqd)
Total # of units (A-F) MORE	# that were rebated by other programs/projects?	
than Rebated # of Units	# that were obtained from OTHER means (explain in comments)?	
Total # of units (A-F) LESS	# of rebated units, other site contact explanation (note in comments)	
than Rebated # of Units	# of rebated units, unaccounted for	

HID Lighting	ı – Activity	/ Area	Assignment	Table ((AAAT)

Measure	Code:	
---------	-------	--

Use the AAAT below to associate lighting units to Activity Areas, equipment oper. schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the total # of installed and operational units in the table above.

- If only **DENT LL**: Only fill out **AAAT** below.
- If DENT LL & (DENT CT or HOBO): Fill out AAAT with DENT LL info, & HIGHBAY Form for Panel Metering
- If only **DENT CT** or **HOBO**: Check <u>N/A</u> box and <u>only</u> fill out <u>**HIGHBAY**</u> Form.

Circle all that apply: (If Verify Only, circle 'NA', and fill out AAAT)

Metering Type:	DENT LL	DENT CT	HOBO	NA

□ N/A

Area ID#	Sched #	Item #	Control Type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					0%	<= Total # of Installed &	Operati	ional Units check (no c	data entry)

Comments:			
	 	 	

LED Lamp Lighting Measures

	PLIGIT	ing weasures							
		Measure Category		LED_M	IeasC	ategory			
		Engineering Estimation Method LED_Engl							
-0		Measure Code		LED_O	S_Me	asCode			
IOU Tracking		Measure Name		LED_OS	S_Me	/leasName			
Data		Rebated #of Units	UnitQ	tyReba	ted				
		IOU Unit Basis		LED_IC	OUUn	itBasis			
		Correct Unit Basis (only if incorrect above)							
		Can Rebated measures be clearly identified?							
		Inside or outside lighti			I	0			
		Total number of fixtu	-						
Visual		Number of lamps per fix	-						
Verification		Total number of lar	_						
Data		Ltg Application Type C Fixture Mount Type C	_						
		Ltg Control C	-						
		Multilevel: Fixture or Lamp switch	<u> </u>	M. I	7 11/		NT A		
	(A) Insta	illed & Operational # of units (ex post quantity		ML-F	Y IV.	IL-L	NA		
		Was subsampling or estimation used?						N	
T 7 101 41		# <u>fixtures</u> switched off (basis may be different than IOU unit basis)							
Verification Counts	# of <u>l</u>	# of <u>lamps</u> burned out in partial operation fixtures							
Counts		# of Non-Operable (broken/entire fixture burned-out) Units in place							
		of Units in Storage/Spares							
		Utility rebate sticker observed on packages? Y N						N	
	Li	Lamps/fixtures are NOT accessible (Check box & explain in comments)							
		Number of units physically inspected *If more than one type Primary					*Secondary		
		Lamp Wattage		Primary	*Secondary			al y	
Physical		Make/Manufacturer							
Inspection Data		Model/Lamp Code							
Data		Lamp Shape/Features Code							
		Lamp Base Type Code:	P M	гс г мо	P	M	С	I MO	
			ADF	GU24 OT		ADP	GU2	4 OT	
		Installed and OP # of lamps			0				
Baseline Sy	vstem	Is post-installation operation the same	•	-			Y	N	
Summary		If pre-retrofit operation was o	amere						
(Observe				Lamp Type Co					
Self-Reported)		Nu	mher (Watts per lan of lamps per fixto	_				
-0	boonsed							OT	
		ersus Rebated # of Units is: E=Equal M=More L=I			E	M	L	OT	
If Disposition N		Self-Reported # of rebated units onsite (probe for	or reb	ated under 10-12	2)				
Site Contact/Se Question	_	Others purchased since rebated units installed							
Questions		(D) # of units located at Other Affiliated Sites							

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How long did units typically operate before failure (months)? (E) # of rebated units that Failed, but replaced w/ incandescent # of rebated units that Failed but were replaced in-kind (Ref)	
 (F) # of rebated units that were Removed and not replaced When were the units removed? (month/year if possible) Describe why units were removed in comments 	
(Sum A-F) Total # of units accounted for on-site	(reqd)
# that were rebated by other programs/projects? # that were obtained from OTHER means (explain in comments)?	
# of rebated units, other site contact explanation (note in comments)	
	(E) # of rebated units that Failed, but replaced w/ incandescent # of rebated units that Failed but were replaced in-kind (Ref) (F) # of rebated units that were Removed and not replaced When were the units removed? (month/year if possible) Describe why units were removed in comments (Sum A-F) Total # of units accounted for on-site # that were rebated by other programs/projects? # that were obtained from OTHER means (explain in comments)?

LED – Activity Area Assignment Table

Measure C	ode:
-----------	------

Use this table to associate LED # of units to Activity Areas, equipment operation schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the total # of installed and operational units in the table above.

Area ID#	Sched #	Item #	Primary or Secondary Type	Control type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
			P S			%				
						%	<= Totals # of Instal	led & O	perational Units che	ck (no data entry)
Com	ments:									

Comments:	 	

Baseline Characterization

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Site ID #		
Form I FDI amp. page	of	

Please describe why these lights were changed to LEDs		
instead of any other lighting technology		
	Approximate age of existing lighting system prior to retrofit (years)	
	Condition of original fixtures prior to retrofit (Good, Fair, Poor)	G F P
	What % of original fixtures were completely burned out?	
	What % of original fixtures were partially burned out?	
On a scale of 1-10, Please rate th	e following topics on their level of influence for retrofitting the lighting fi	ixtures:
	Burned out fixtures	
	Adequate lighting levels	
	Major Renovation / Re-Modeling	
	Safety of Occupants	
	Productivity of Occupants	
	Lowering energy consumption and energy bills	
	Long lamp life	
	Low maintenance	
	Going green	
	Utility Incentive	
	Other (describe in comments)	
	ial factors above, in the absence of an energy efficiency rebate program: continued to operate the original fixtures before replacing them? (years)	
Comments:		

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LED Hardwired Fixture Lighting Measures

		211011 0 =1,	<u> </u>		 					
		Category			LEDFixtur	e _MeasCateg	gory			
	Mea	easure Code LEDFixture _OS_MeasCode								
IOU	Meas	sure Name LEDFixture_OS_MeasName								
Tracking				Reb	ated #of Units	LE	DFixture _IOUU	JnitQtyR	ebated	
Data]	OU <u>Unit Basis</u>		LEDFixture_IO	UUnitBo	ısis	
				Basis (if incorrec						
		Can Reb	oated :	measures be cle	arly identified?		Y	N		
				I	nside or outside	lighting?		<u> </u>		
					Ceiling he	_				
				Fixt	are height from					
					Ltg Applicat					
					Fixture Mount t	type code				
			1		<u> Total number of</u>					
Visual		near Tubes	Fix	xture Replaceme			F	R L	P	
Verification		<u>k</u> lighting		<u>PREDOMINA</u>	<u>ANT</u> # Lamps pe	ŀ				
Data	fixt	tures			Total number					
					mp Shape/Featu					
				strip, string, or						
				Provide dimensi	<u> </u>		Length	X	Widt	h (ft)
	If LE	ED <mark>linear fixt</mark>	ture:	Fixture dimensi			Length	_X	Widt	h (ft)
					and Tube 1					
Multilevel: Fixture or Lamp switched? ML-1 (A) Installed & Operational # of units (ex post quantity)							ML-F	ML-I	. NA	
		_			post quantity)			ļ.,	.,	т
Verification				imation used?	r i i ioii				Y N	<u> </u>
Counts			pasis may be diff			.1				
				oken/entire fixt	ure burnea-out) Units in j	olace			
	(C) # 01 K			torage/Spares	NOT googgible	(annlain in				
Db!1	Check box if Fixtures are NOT				Number of uni					
Physical Inspection	If the IImi	t Dasis — Law			rumber of um		re Wattage:			
Data		t Basis = Lam amp informati	-	Fixture Make	Manufacturer	TTAtu	ic waitage.			
Dutu	of <u>Fixture</u> info			Model Number						
				nstallation opera		nre-retrofi	t operation?	,	Y N	J
		20 P		If pre-retrofit o		-	-		<u> </u>	<u> </u>
					•		l type Code			
Baseline System						Type Code				
Summary Data (Observed or	(If LF Baseline) - Tube Length and Diameter (e.g. 4ft T12)									
Self-Reported					# La	mps/Fixture				
Sen-Reported					La	mp Wattage				
If NOT LF Baseline: Fixture										
				naracteristics)			_			
	Observed v			of Units is: E=Eq				E M	L	OT
If Disposition N		-		of rebated units	•	r rebated ui	nder 10-12)			
Site Contact/Se Question		-		l since rebated u						
				ated at Other At		,	\0			
Failed (and R <u>Rebated</u> U		_		nits typically ope						
(Indirect/Self				units that Failed	-					
(Lindii ecobell	-toport)	# Of rehate	a unit	ts that Failed bu	i were replaced i	m-kina (Re	1.)	1		

7/30/2013 LEDFixture

Site ID #		
Form I EDFixture page	of	

Removed <u>Rebated</u> Units (Indirect/Self-Report)	(F) # of rebated units that were Removed and not replaced When were the units removed? (month/year if possible) Describe why units were removed in comments	
	(Sum A-F) Total # of units accounted for on-site	(reqd)
Total # of units (A-F) MORE	# that were rebated by other programs/projects?	
than Rebated # of Units	# that were obtained from OTHER means (explain in comments)?	
Total # of units (A-F) LESS	# of rebated units, other site contact explanation (note in comments)	
than Rebated # of Units	# of rebated units, unaccounted for	

Measure	Codo
MEasure	COUE.

Use the AAAT below to associate lighting units to Activity Areas, equipment oper. Schedules, and lighting loggers. The values in the "Represented # of Units" column must add up to the total # of Installed and Operational units in the table above.

- If ONLY FIXTURE **DENT LL**: Only fill out **AAAT** below.
- If DENT LL & (DENT CT or HOBO): Fill out AAAT with logger info & the HIGHBAY Form for Panel Metering
- If ONLY PANEL METERING: Check N/A box and only fill out HIGHBAY Form.

Circle all that apply: (If Verify Only, circle 'NA', and fill out AAAT)

Metering Type:	DENT LL	DENT CT	HOBO	NA

□ N/A

Area ID#	Sched #	Item #	Control Type Code	Repres. # of Units	% of Total Inst&Op. Units (Ref)	Primary Logger S/N	Ref. Logger	Back-up Logger S/N	Comments
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					%				
					0/2	<= Total # of Installed &	& Operat	tional Units check (no d	lata entru)

Comments			

7/30/2013 LEDFixture

Site ID #		
Form LEDFixture page	of	

Rase	line	Chai	acter	ization	
Dase		viiai	acter	ızauvıı	

Approximate age of existing lighting system prior to retrofit (years) Condition of original fixtures prior to retrofit (Good, Fair, Poor) What % of original fixtures were completely burned out? What % of original fixtures were partially burned out? What % of original fixtures were partially burned out? In a scale of 1-10, Please rate the following topics on their level of influence for retrofitting the lighting fixtures: Burned out fixtures Adequate lighting levels Major Renovation / Re-Modeling Safety of Occupants Productivity of Occupants Lowering energy consumption and energy bills Long lamp life Low maintenance
Condition of original fixtures prior to retrofit (Good, Fair, Poor) G F P What % of original fixtures were completely burned out? What % of original fixtures were partially burned out? What % of original fixtures were partially burned out? In a scale of 1-10, Please rate the following topics on their level of influence for retrofitting the lighting fixtures: Burned out fixtures Adequate lighting levels Major Renovation / Re-Modeling Safety of Occupants Productivity of Occupants Lowering energy consumption and energy bills Long lamp life
What % of original fixtures were completely burned out? What % of original fixtures were partially burned out? In a scale of 1-10, Please rate the following topics on their level of influence for retrofitting the lighting fixtures: Burned out fixtures Adequate lighting levels Major Renovation / Re-Modeling Safety of Occupants Productivity of Occupants Lowering energy consumption and energy bills Long lamp life
What % of original fixtures were partially burned out? In a scale of 1-10, Please rate the following topics on their level of influence for retrofitting the lighting fixtures: Burned out fixtures Adequate lighting levels Major Renovation / Re-Modeling Safety of Occupants Productivity of Occupants Lowering energy consumption and energy bills Long lamp life
n a scale of 1-10, Please rate the following topics on their level of influence for retrofitting the lighting fixtures: Burned out fixtures Adequate lighting levels Major Renovation / Re-Modeling Safety of Occupants Productivity of Occupants Lowering energy consumption and energy bills Long lamp life
Burned out fixtures Adequate lighting levels Major Renovation / Re-Modeling Safety of Occupants Productivity of Occupants Lowering energy consumption and energy bills Long lamp life
Adequate lighting levels Major Renovation / Re-Modeling Safety of Occupants Productivity of Occupants Lowering energy consumption and energy bills Long lamp life
Major Renovation / Re-Modeling Safety of Occupants Productivity of Occupants Lowering energy consumption and energy bills Long lamp life
Safety of Occupants Productivity of Occupants Lowering energy consumption and energy bills Long lamp life
Productivity of Occupants Lowering energy consumption and energy bills Long lamp life
Lowering energy consumption and energy bills Long lamp life
Long lamp life
Low maintenance
Going green
Utility Incentive
Other (describe in comments)
Considering all of the influential factors above, in the absence of an energy efficiency rebate program: How long would you have continued to operate the original fixtures before replacing them? (years)

Comments:		

7/30/2013 LEDFixture

		Site ID #
CPUC 2012 Non-Residential Lighting Onsite Verification Survey Form	Form PANEL, page of	

Panel Meter - Circuit Spot Measurement Table: (REFERENCE ONLY – NO DATA ENTRY)

Note 1: Fill this table out, then fill out the *Consolidated Logging Circuit Table* below.

Circuit Label #	Phase	# Fixtures Controlled (DD)	# Lamps per Fixture (EE)	Watts per Lamp (FF)	# Lamps Burnt Out (GG)	(DD*EE*FF) -(FF*GG) Calc. Circuit Watts (HH)	Measured Circuit Watts (MW)	PF (<i>JJ</i>)	Measured Volts (KK)	Measured Amps (LL)	Measured Parasistic Watts (MM)	Comments

Panel Meter – Consolidated Logging Circuit Table: (REFERENCE ONLY – NO DATA ENTRY)

Note 1: After each circuit measurement is recorded in the table above, fill out the table below; here you can roll up >1 circuit into a single CT channel (if on the same phase).

Note 2: You will copy <u>ALL</u> values from the table below into their fields on the *Panel Meter – Final Spot Measurement and Logging* form.

Note 3: The "Item #" below should correlate to the "Item #" on the Panel Meter – Final Spot Measurement and Logging form.

	· · · · · · · · · · · · · · · · · · ·				(HOBO)) From applicalbe fields in table above					From applicalbe fields in table above					
Item #	<u>Circ</u> Label		Phase	HOBO Logger Type	Logger ID	CT Channel #	Total Fixtures Controlled	# Lamps per Fixture	Watts per Lamp	# Lamps Burnt Out	Sum Circuit Watts	Sum Meas. Watts	Avg. PF	Avg. Meas. Volts	Sum Meas. Amp	Sum Parasitic Watts
(A)	(B))	(C)	(X)	(Y)	(Z)	(D)	(E)	(F)	(G)	(H)	(I)	(\mathbf{J})	(K)	(L)	(M)

Panel Meter – Final Spot Measurement and Logging – (DATA ENTRY)

Breaker Circuit and Point of Control (POC) Assessment							
Panel Meter Item #:	(A)						
Associated Measure C							
IOU Unit							
Panel number/identifier (if appli		<u> </u>					
Circuit Label Number(s):	(B)						
Phase of Circuit(s):	(C)	A I	ВС	A	ВС	A	ВС
Breaker(s) Rated			-				
Control Type Code	(CTC)						
# Wall switches connected to this C	Circuit						
Circuit Configuration Code ((CCC)						
Sche	dule#						
Area ID #: (if > 1 AA, enter from left to	right)						
# Rebated Controls per Activity Area(s)	above:						
Fixture Verification and Nominal Watt Calculation							
<u>Circuit(s)</u> tested (On	Off)?	Y	N	Y	N	Y	N
# of Rebated <u>Units</u> on Cir	cuit(s)	`					
# of Rebated Fixtures controlled by Circuit(s):	(D)						
# of Rebated Lamps per Fixture:	(E)						
Rated Lamp Wattage:	(F)						
# of <u>Lamps</u> Burned-out or Non-Operable:	(G)						
Total Nominal Rebated Circuit(s) Watts: (D*E*F)-(F*G)	(H)						
Spot Measurements	()						
Max Measured Wattage: (with all fixtures on Circuit ON):	(I)		G N		G N		G N
Power Factor: (if 2 circuits on 1 CT, average the PF):	(J)	L. L.			0 11		
Measured Circuit(s) Voltage: (to Ground or Neutral):	(K)						
Max Measured Amperage: (with all fixtures 'ON'):	(L)						
	<u> </u>	0/	37 37	0/	37 N	0/	37 37
% Meas. vs. Calc. Watts: (I/H*100); Is this between 90-1	110% ?	%	Y N	%	Y N	%	Y N
Non-Rebated or Parsitic Loads Do Non-Rebated or Parasitic Loads exist on this Ci	mourit?	37 3	L DV	37 3	I DI	37	I DI
		Y N		Y			N DK
Is the parasitic load Constant or Var	_	C V	NA	C V	NA NA	C V	/ NA
Parasitic Wattage: (only if a <u>contant</u> parasitic load):	(M)						
Logger Information							
Logger Type: ($DCT = DENT \ CT, \ H = HOBO$)	(X)	DCT	Н	DCT	Н	DCT	Н
Primary Logger S/N:	(Y)						
Logger Channel #	(Z)						
Reference Lo							
Reference Cha]]			
CT Am	ıp size						
Logger Installation Com							

HIGHBAY

Panel Meter – Final Spot Measurement and Logging – (DATA ENTRY)

Breaker Circuit and Point of Control (POC) Assessment				
Panel Meter Item #:	(A)		1	
Associated Measure C				
Associated Measure C	- ' '			
Panel number/identifier (if appli				
Circuit Label Number(s):	(B)			
Phase of Circuit(s):	(C)	A B C	A B C	A B C
Breaker(s) Rated	` '			A B C
Control Type Code (,
# Wall switches connected to this C				
Circuit Configuration Code ((CCC)			
Sche	dule#			
Area ID #: (if > 1 AA, enter from left to	right)			
# Rebated Controls per Activity Area(s) a	above:			
Fixture Verification and Nominal Watt Calculation				
<u>Circuit(s)</u> tested (On	/Off)?	Y N	Y N	Y N
# of Rebated <u>Units</u> on Circ	cuit(s)	`		
# of Rebated Fixtures controlled by Circuit(s):	(D)			
# of Rebated Lamps per Fixture:	(E)			
Rated Lamp Wattage:	(F)			
# of <u>Lamps</u> Burned-out or Non-Operable:	(G)			
Total Nominal Rebated Circuit(s) Watts: (D^*E^*F) - (F^*G)	(H)			
Spot Measurements	(11)			
Max Measured Wattage: (with all fixtures on Circuit ON):	(I)	G N	G N	G N
Power Factor: (if 2 circuits on 1 CT, average the PF):	(J)		3 11	
Measured Circuit(s) Voltage: (to Ground or Neutral):	(K)			
Max Measured Amperage: (with all fixtures 'ON'):	(L)	0/ 77 37		
% Meas. vs. Calc. Watts: (<i>I/H*100</i>); Is this between 90-1	10%?	% Y N	% Y N	% Y N
Non-Rebated or Parsitic Loads				
Do Non-Rebated or Parasitic Loads exist on this Ci		Y N DK	Y N DK	Y N DK
Is the parasitic load Constant or Var	iable?	C V NA	C V NA	C V NA
Parasitic Wattage: (only if a <u>contant</u> parasitic load):	(M)			
Logger Information				
Logger Type: $(DCT = DENT \ CT, \ H=HOBO)$	(X)	DCT H	DCT H	DCT H
Primary Logger S/N:	(Y)			
Logger Channel #	(Z)			
Reference Lo	ogger:			
Reference Cha				
CT Am	p size			
Logger Installation Com				

Panel Meter - Final Spot Measurement and Logging

Breaker Circuit and Point of Control (POC) Assessment				
Panel Meter Item #:	(A)			
Associated Measure C	ode(s)			
IOU Unit	Basis			
Panel number/identifier (if appli	cable)	·	·	
Circuit Label Number(s):	(B)			
Phase of Circuit(s):	(C)	A B C	A B C	A B C
Breaker(s) Rated				
Control Type Code				
Wall switches connected to this (
Circuit Configuration Code (
	dule #		T T	<u> </u>
Area ID #: (if >1 AA, enter from left to				
# Rebated Controls per Activity Area(s) a	above:			
Fixture Verification and Nominal Watt Calculation				
<u>Circuit(s)</u> tested (On	/Off)?	Y N	Y N	Y N
# of Rebated <u>Units</u> on Cir	cuit(s)	`		
# of <u>Rebated Fixtures</u> controlled by <u>Circuit(s)</u> :	(D)			
# of Rebated Lamps per Fixture:	(E)			
Rated Lamp Wattage:	(F)			
# of <u>Lamps</u> Burned-out or Non-Operable:	(G)			
Total Nominal Rebated Circuit(s) Watts: (D*E*F)-(F*G)	(H)			
Spot Measurements				
Max Measured Wattage: (with all fixtures on Circuit ON):	(I)	G N	G N	G N
Power Factor: (if 2 circuits on 1 CT, average the PF):	(J)			
Measured Circuit(s) Voltage: (to Ground or Neutral):	(K)			
Max Measured Amperage: (with all fixtures 'ON'):	(L)			
2 2	<u> </u>	% Y N	0/ V N	0/ N/ N/
% Meas. vs. Calc. Watts: (I/H*100); Is this between 90-1	110% ?	% Y N	% Y N	% Y N
Non-Rebated or Parsitic Loads Do Non-Rebated or Parasitic Loads exist on this Ci	novit?	W M DV	W N DV	W N DV
		Y N DK	Y N DK	Y N DK
Is the parasitic load Constant or Var		C V NA	C V NA	C V NA
Parasitic Wattage: (only if a <u>contant</u> parasitic load):	(M)			
Logger Information				
Logger Type: ($DCT = DENT \ CT, \ H = HOBO$)	(X)	DCT H	DCT H	DCT H
Primary Logger S/N:	(Y)			
Logger Channel #	(Z)			
Reference Lo				
Reference Cha				
CT Am	ıp size			
Logger Installation Com				

Site ID #		
Form COMMENTS, page	of	

General Comments

Item #	Form Name	Comments

Site ID #		_
Form PHOTO LOG, page	of	

Site Photo Log

Record site photo information here including the PhotoID (i.e. digital file name) and a brief description of the photo where needed. Site Photos should include the site entrance and entire building, rebated measures, and close-up photos of nameplates, lamp codes, and other make/model identification. Refer to the training manual for more on what photos to take. Photo/file naming conventions is SiteID_Item# or SiteID 00# (e.g. PGE_056789_1.jpg, PGE_056789 001.jpg).

Item#	Description/Comments/Measure Code (no data entry)
1	
2	
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Incentive Payment										
My signature acknowledges that I received a participation incentive in the form of a \$ gift card for the survey effort										
regarding the Californ	regarding the California Saturation Survey / California Market Share Tracking effort.									
Print Name					Date Received					
Gift Card			Gift Card Seria	ıl						
Company			#							
Signature										

Appendix C

NTGR Working Group Framework for NTG Analysis

Methodological Framework for Using the Self-Report Approach to Estimating Net-to-Gross Ratios for Nonresidential Customers

Prepared for the Energy Division, California Public Utilities Commission

 $\mathbf{B}\mathbf{y}$

The Nonresidential Net-To-Gross Ratio Working Group

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Appendix A: References

Acknowledgments

As part of the evaluation of the 2010-12 energy efficiency programs designed and implemented by the four investor-owned utilities (Pacific Gas & Electric Company, Southern California Edison Company, Southern California Gas Company, and San Diego Gas and Electric Company) and third parties, the Energy Division of the California Public Utilities Commission (CPUC) re-formed the nonresidential net-to-gross ratio working group that was originally formed during the PY2006-2008 evaluation. The main purpose of this group was to furtherrefine and improve the standard net-to-gross methodological framework that was developed during the PY2006-2008 evaluation cycle. This framework includes decision rules, for integrating in a systematic and consistent manner the findings from both quantitative and qualitative information in estimating net-to-gross ratios. The working group, listed alphabetically, is composed of the following evaluation professionals:

- Jennifer Fagan, Itron, Inc.
- Nikhil Gandhi, Strategic Energy Technologies, Inc.
- Kay Hardy, Energy Division, CPUC
- Jeff Hirsch, James J. Hirsch & Associates
- Richard Ridge, Ridge & Associates
- Mike Rufo, Itron, Inc.
- Claire Palmgren, KEMA
- Valerie Richardson, KEMA
- Philippus Willems, PWP, Inc.

A public webinar was conducted to obtain feedback from the four investor-owned utilities and other interested stakeholders. The questionnaire was then pre-tested and, based on the pre-test results, finalized in December 2011.

1. OVERVIEW OF THE LARGE NONRESIDENTIAL FREE RIDERSHIP APPROACH

The methodology described in this section was developed to address the unique needs of Large Nonresidential customer projects developed through energy efficiency programs offered by the four California investor-owned utilities and third-parties. This method relies exclusively on the Self-Report Approach (SRA) to estimate project and program-level Net-to-Gross Ratios (NTGRs), since other available methods and research designs are generally not feasible for large nonresidential customer programs. This methodology provides a standard framework, including decision rules, for integrating findings from both quantitative and qualitative information in the calculation of the net-to-gross ratio in a systematic and consistent manner. This approach is designed to fully comply with the California Energy Efficiency Evaluation: Protocols: Technical, Methodological, and Reporting Requirements for Evaluation Professionals (Protocols) and the Guidelines for Estimating Net-To-Gross Ratios Using the Self-Report Approaches (Guidelines).

This approach preserves the most important elements of the approaches previously used to estimate the NTGRs in large nonresidential customer programs. However, it also incorporates several enhancements that are designed to improve upon that approach, for example:

- The method incorporates a 0 to 10 scoring system for key questions used to estimate the NTGR, rather than using fixed categories that are assigned weights.
- The method asks respondents to jointly consider and rate the importance of the many likely events or factors that may have influenced their energy efficiency decision making, rather than focusing narrowly on only their rating of the program's importance. This question structure more accurately reflects the complex nature of the real-world decision making and should help to ensure that all non-program influences are reflected in the NTGR assessment in addition to program influences.

It is important to note that the NTGR approach described in this document is a general framework, designed to address all large nonresidential programs. In order to implement this approach on a program-specific basis, it also needs to be customized to reflect the unique nature of the individual programs.

2. BASIS FOR SRA IN SOCIAL SCIENCE LITERATURE

The social sciences literature provides strong support for use of the methods used in the SRA to assess program influence. As the *Guidelines* notes,

More specifically, the SRA is a mixed method approach that involves asking one or more key participant decision-makers a series of structured and open-ended questions about whether they would have installed the same EE equipment in the

absence of the program as well as questions that attempt to rule out rival explanations for the installation (Weiss, 1972; Scriven, 1976; Shadish, 1991; Wholey et al., 1994; Yin, 1994; Mohr, 1995). In the simplest case (e.g., residential customers), the SRA is based primarily on quantitative data while in more complex cases the SRA is strengthened by the inclusion of additional quantitative and qualitative data which can include, among others, in-depth, openended interviews, direct observation, and review of program records. Many evaluators believe that additional qualitative data regarding the economics of the customer's decision and the decision process itself can be very useful in supporting or modifying quantitatively-based results (Britan, 1978; Weiss and Rein, 1972; Patton, 1987; Tashakkori and Teddlie, 1998). ¹

More details regarding the philosophical and methodological underpinnings of this approach are in Ridge, Willems and Fagan (2009), Ridge, Willems, Fagan and Randazzo (2009) and Megdal, Patil, Gregoire, Meissner, and Parlin (2009). In addition to these two articles, Appendix A provides an extensive listing of references in the social sciences literature regarding the methods employed in the SRA.

3. Free Ridership Analysis by Project Type

There are three levels of free-ridership analysis. The most detailed level of analysis, the **Standard – Very Large Project** NTGR, is applied to the largest and most complex projects (representing 10 to 20% of the total) with the greatest expected levels of gross savings² The **Standard** NTGR, involving a somewhat less detailed level of analysis, is applied to projects with moderately high levels of gross savings. The least detailed analysis, the **Basic** NTGR, is applied to all remaining projects. Evaluators must exercise their own discretion as to what the appropriate thresholds should be for each of these three levels.

4. Sources of Information on Free Ridership

There are five sources of free-ridership information in this study. Each level of analysis relies on information from one or more of these sources. These sources are described below.

1. **Program Files**. As described in previous sections of this report, programs often maintain a paper file for each paid application. These can contain various pieces of information which are relevant to the analysis of free-ridership, such as letters written by the utility's customer representatives that document what the customer had planned to do in the absence of the rebate and explain the customer's motivation for implementing the efficiency measure. Information on the measure payback with and without the rebate may also be available.

¹ Guidelines for Estimating Net-To-Gross Ratios Using the Self-Report Approaches, October 15, 2007, pg. 3

Note that we do not refer to an Enhanced level of analysis, since this is defined by the Protocols to involve the application of two separate analysis approaches, such as billing analysis or discrete choice modeling.

- 2. Decision-Maker Surveys. When a site is recruited, one must also determine who was involved in the decision-making process which led to the implementation of measures under the program. They are asked to complete a Decision Maker survey. This survey obtains highly structured responses concerning the probability that the customer would have implemented the same measure in the absence of the program. First, participants are asked about the timing of their program awareness relative to their decision to purchase or implement the energy efficiency measure. Next, they are asked to rate the importance of the program versus non-program influences in their decision making. Third, they are asked to rate the significance of various factors and events that may have led to their decision to implement the energy efficiency measure at the time that they did. These include:
 - the age or condition of the equipment,
 - information from a feasibility study or facility audit
 - the availability of an incentive or endorsement through the program
 - a recommendation from an equipment supplier, auditor or consulting engineer
 - their previous experience with the program or measure,
 - information from a program-sponsored training course or marketing materials provided by the program
 - the measure being included as part of a major remodeling project
 - a suggestion from program staff, a program vendor, or a utility representative
 - a standard business practice
 - an internal business procedure or policy
 - stated concerns about global warming or the environment
 - a stated desire to achieve energy independence.

In addition, the survey obtains a description of what the customer would have done in the absence of the program, beginning with whether the implementation was an early replacement action. If it was not, the decision maker is asked to provide a description of what equipment would have been implemented in the absence of the program, including both the efficiency level and quantities of these alternative measures. This is used to adjust the gross engineering savings estimate for partial free ridership, as discussed in Section 5.2.

This survey contains a core set of questions for **Basic** NTGR sites, and several supplemental questions for both **Standard and Standard – Very Large** NTGR sites For example, if a Standard or Standard-Very Large respondent indicates that a financial calculation entered highly into their decision, they are asked additional questions about their *financial criteria* for investments and their rationale for the current project in light of them. Similarly, if they respond that a *corporate policy* was a primary consideration in their decision, they are asked a series of questions about the specific policy that led to their adoption of the installed measure. If they indicate the installation was a *standard practice*, there are supplemental questions to understand the origin and evolution of that standard practice within their

organization. These questions are intended to provide a deeper understanding of the decision making process and the likely level of program influence versus these internal policies and procedures. Responses to these questions also serve as a basis for consistency checks to investigate conflicting answers regarding the relative importance of the program and other elements in influencing the decision. In addition, **Standard – Very Large** sites may receive additional detailed probing on various aspects of their installation decision based on industry- or technology-specific issues, as determined by review of other information sources. For Standard-Very Large sites all these data are used to construct an internally consistent "story" that supports the NTGR calculated based on the overall information given.

- 3. Vendor Surveys. A Vendor Survey is completed for all Standard and Standard-Very Large NTGR sites that utilized vendors, and for Basic NTGR sites that indicate a high level of vendor influence in the decision to implement the energy efficient measure. For those sites that indicate the vendor was very influential in decision making, the vendor survey results enter directly into the NTGR scoring. The vendor survey findings are also be used to corroborate Decision Maker findings, particularly with respect to the vendor's specific role and degree of influence on the decision to implement the energy efficient measure. Vendors are queried on the program's significance in their decision to recommend the energy efficient measures, and on their likelihood to have recommended the same measure in the absence of the program. Generally, the vendors contacted as part of this study are contractors, design engineers, distributors, and installers.
- 4. **Utility and Program Staff Interviews**. For the Standard and Standard-Very Large NTGR analyses, interviews with utility staff and program staff are also conducted. These interviews are designed to gather information on the historical background of the customer's decision to install the efficient equipment, the role of the utility and program staff in this decision, and the name and contact information of vendors who were involved in the specification and installation of the equipment.
- 5. Other information. For Standard Very Large Project NTGR sites, secondary research of other pertinent data sources is performed. For example, this could include a review of standard and best practices through industry associations, industry experts, and information from secondary sources (such as the U.S. Department of Energy's Industrial Technologies Program, Best Practices website URL, http://www1.eere.energy.gov/industry/bestpractices/). In addition, the Standard- Very Large NTGR analysis calls for interviews with other employees at the participant's firm, sometimes in other states, and equipment vendor experts from other states where the rebated equipment is being installed (some without rebates), to provide further input on standard practice within each company.

Table 1 below shows the data sources used in each of the three levels of free-ridership analysis. Although more than one level of analysis may share the same source, the amount of information that is utilized in the analysis may vary. For example, all three levels of analysis obtain core question data from the Decision Maker survey.

Table 1: Information Sources for Three Levels of NTGR Analysis

	Program File	Decision Maker Survey Core Question	Vendor Surveys	Decision Maker Survey Supplemental Questions	Utility & Program Staff Interviews	Other Research Findings
Basic NTGR	$\sqrt{}$	$\sqrt{}$	$\sqrt{1}$		$\sqrt{2}$	
Standard NTGR	$\sqrt{}$	$\sqrt{}$	$\sqrt{1}$	$\sqrt{}$	$\sqrt{}$	
Standard NTGR - Very Large Projects	V	V	$\sqrt{3}$	V	V	V

¹Only performed for sites that indicate a vendor influence score (N3d) greater than maximum of the other program element scores (N3b, N3c, N3g, N3h, N3l).

A copy of the complete survey forms (with lead-in text and skip patterns) are available upon request.

5. NTGR FRAMEWORK

The Self-Report-based Net-to-Gross analysis relies on responses to a series of survey questions that are designed to measure the influence of the program on the participant's decision to implement program-eligible energy efficiency measure(s). Based on these responses, a NTGR is derived based on responses to a set of "core" NTGR questions.

5.1. NTGR Questions and Scoring Algorithm

A self-report NTGR is computed for all NTGR levels using the following approach. Adjustments may be made for **Standard – Very Large** NTGR sites, if the additional information that is collected is inconsistent with information provided through the Decision Maker survey.

The NTGR is calculated as an average of three scores. Each of these scores represents the highest response or the average of several responses given to one or more questions about the decision to install a program measure.

• **Program attribution index 1 (PAI–1) score** that reflects the influence of the **most important** of various program and program-related elements in the

²Only performed for sites that have a utility account representative

³Only performed if significant vendor influence reported or if secondary research indicates the installed measure may be becoming standard practice.

customer's decision to select the specific program measure at this time. Program influence through vendor recommendations is also incorporated in this score.

- Program attribution index 2 (PAI–2) score that captures the perceived importance of the program (whether rebate, recommendation, training, or other program intervention) relative to non-program factors in the decision to implement the specific measure that was eventually adopted or installed. This score is determined by asking respondents to assign importance values to both the program and most important non-program influences so that the two total 10. The program influence score is adjusted (i.e., divided by 2) if respondents say they had already made their decision to install the specific program qualifying measure before they learned about the program.
- **Program attribution index 2 (PAI–3) score** that captures the likelihood of various actions the customer might have taken at this time and in the future if the program had not been available (the counterfactual).

When there are multiple questions that feed into the scoring algorithm, as is the case for both the **PAI-1** and **PAI-3** scores, the maximum score is always used. The rationale for using the maximum value is to capture the most important element in the participant's decision making. Thus, each score is always based on the strongest influence indicated by the respondent. However, high scores that are inconsistent with other previous responses trigger consistency checks and can lead to follow-up questions to clarify and resolve the discrepancy.

The calculation of each of the above scores is discussed below. For each score, the associated questions are presented and the computation of each score is described.

5.1.1. PAI–1 score

For the Decision Maker, the questions asked are:

I'm going to ask you to rate the importance of the program as well as other factors that might influence your decision to implement [MEASURE.] Think of the degree of importance as being shown on a scale with equally spaced units from 0 to 10, where 0 means not at all important and 10 means very important, so that an importance rating of 8 shows twice as much influence as a rating of 4.

Now, using this 0 to 10 rating scale, where 0 means "Not at all important" and 10 means "Very important," please rate the importance of each of the following in your decision to implement this specific [MEASURE] at this time.

- Availability of the PROGRAM rebate
- Information provided through a recent feasibility study, energy audit or other types of technical assistance provided through PROGRAM
- Information from PROGRAM training course

- Information from other PROGRAM marketing materials
- Suggestion from program staff
- Suggestion from your account rep
- Recommendation from a vendor/supplier (If a score of greater than 5 is given, a vendor interview is triggered)

For the Vendor, the questions asked (if the interview is triggered) are:

I'm going to ask you to rate the importance of the [PROGRAM] in influencing your decision to recommend [MEASURE] to [CUSTOMER] and other customers. Think of the degree of importance as being shown on a scale with equally spaced units from 0 to 10, where 0 means not at all important and 10 means very important, so that an importance rating of 8 shows twice as much influence as a rating of 4.

- 1. Using this 0 to 10 scale where 0 is 'Not at all important" and 10 is "Very Important," how important was the PROGRAM, including incentives as well as program services and information, in influencing your decision to recommend that CUSTOMER install the energy efficiency MEASURE at this time?
- 2. And using a 0 to 10 likelihood scale, where 0 denotes "not at all likely" and 10 denotes "very likely," if the PROGRAM, including incentives as well as program services and information, had not been available, what is the likelihood that you would have recommended this specific energy efficiency MEASURE to CUSTOMER?
- 3. Now, using a 0 to 100 percent scale, in what percent of sales situations did you recommend MEASURE before you learned about the [PROGRAM]?
- 4. And using the same 0 to 100 percent scale, in what percent of sales situations do you recommend MEASURE now that you have worked with the [PROGRAM]?
- 5. And, using the same 0 to 10 scale where 0 is "Not at all important" and 10 is "Very important", how important in your recommendation were:
 - a. Training seminars provided by UTILITY?
 - b. Information provided by the UTILITY website?
 - c. Your firm's past participation in a rebate or audit program sponsored by UTILITY?

If the Vendor interview is triggered, a score is calculated that captures the highest degree of program influence on the vendor's recommendation. This score (VMAX) is calculated as the MAXIMUM value of the following:

- 1. The response to question 1
- 2. 10 minus the response to question 2
- 3. The response to question 4 minus the response to question 3, divided by 10
- 4. The response to question 5a.
- 5. The response to question 5b.
- 6. The response to question 5c.

Note that vendors are asked an additional question regarding other ways that their recommendations regarding the measure might have been influenced. Their responses are not used in the direct calculation of the NTGR but are potentially useful in making adjustments to the core NTGR.

The PAI-1 score is calculated as:

The highest program influence score divided by the sum of the highest program influences (i.e., the responses to the first six decision maker questions) plus the highest non-program influence score, multiplied by 10. and, if the vendor interview has been triggered, the VMAX score multiplied by the score the decision makers assigned to the vendor recommendation.

5.1.2. PAI–2 score

The questions asked are:

- 1. Did you learn about PROGRAM BEFORE or AFTER you decided to implement the specific MEASURE that was eventually adopted or installed?
- 2. Now I'd like to ask you a last question about the importance of the program to your decision as opposed to other factors that may have influenced your decision. Again using the 0 to 10 rating scale we used earlier, where 0 means "Not at all important" and 10 means "Very important," please rate the overall importance of PROGRAM versus the most important of the other factors we just discussed in your decision to implement the specific MEASURE that was adopted or installed. This time I would like to ask you to have the two importance ratings -- the program importance and the non-program importance -- total 10.

The PAI-2 score is calculated as:

The importance of the program, on the 0 to 10 scale, to question 2. This score is reduced by half if the respondent learned about the program after the decision had been made.

5.1.3. PAI–3 Score

The questions asked are:

1. Now I would like you to think about the action you would have taken with regard to the installation of this equipment if the &PROGRAM had not been available. Using a likelihood scale from 0 to 10, where 0 is "Not at all likely" and 10 is "Extremely likely", if PROGRAM had not been available, what is the likelihood that you would have installed exactly the same program-qualifying efficiency equipment that you did in this project?

The PAI-3 score is calculated as:

10 minus the likelihood of installing the same equipment

5.1.4. The Core NTGR

The self-reported core NTGR in most cases is simply the average of the PAI-1, PAI-2, and PAI-3 scores, divided by 10. The one exception to this is when the respondent indicates a 10 in 10 probability of installing the same equipment at the same time in the absence of the program, in which case the NTGR is based on the average of the PAI-2 and PAI-3 scores only.

5.2. Data Analysis and Integration

The calculation of the Core NTGR is fairly mechanical and is based on the answers to the closed-ended questions. However, the reliance of the Standard NTGR – Very Large on more information from so many different sources requires more of a case study level of effort. The SRA Guidelines point out that a case study is one method of assessing both quantitative and qualitative data in estimating a NTGR. A case study is an organized presentation of all these data available about a particular customer site with respect to all relevant aspects of the decision to install the efficient equipment. In such cases where multiple interviews are conducted eliciting both quantitative and qualitative data and a variety of program documentation has been collected, one will need to integrate all of this information into an internally consistent and coherent story that supports a specific NTGR.

The following data sources should be investigated and reviewed as appropriate to supplement the information collected through the decision maker interviews.

- Account Representative Interview
- Utility Program Manager/Staff Interview
- Utility Technical Contractor Interview
- Third party Program Manager Interview
- Evaluation Engineer Interview
- Gross Impact Site Plan/Analysis Review
- Corporate Green/Environmental Policy Review (if mentioned as important)
- Corporate Standard Practice Review (if mentioned as important)
- Industry Standard Practice Review (if mentioned as important)
- Corporate payback review (if mentioned as important)
- Review relevant codes and standards, including regulatory requirements
- Review industry publications, websites, reports such as the Commercial Energy Use Survey, historical purchase data of specific measures etc.

As detailed in the Self-Report NTGR Guidelines, when complementing the quantitative analysis of free-ridership with additional quantitative and qualitative data from multiple respondents and other sources, there are some basic concerns that one must keep in mind. Some of the other data – including interviews with third parties who were involved in the decision to install the energy efficient equipment – may reveal important influences on the customer's decision to install the qualifying program measure. When one chooses to

incorporate other data, one should keep the following principles in mind: 1) the method chosen should be balanced. That is, the method should allow for the possibility that the other influence can either increase or decrease the NTGR calculated from the decision maker survey responses, 2) the rules for deciding which customers will be examined for potential other influences should be balanced. In the case of Standard –Very Large interviews, all customers are subject to such a review, so that the pool of customers selected for such examination will not be biased towards ones for whom the evaluator believes the external influence will have the effect of influencing the NTGR in only one direction, 3) the plan for capturing other influences should be based on a well-conceived causal framework. The onus is on the evaluator to build a compelling case using a variety of quantitative and/or qualitative data for estimating a customer's NTGR.

Establishing Rules for Data Integration

Before the analysis begins, the evaluation team should establish, to the extent feasible, rules for the integration of the quantitative and qualitative data. These rules should be as specific as possible and be strictly adhered to throughout the analysis. Such rules might include instructions regarding when the NTGR based on the quantitative data should be overridden based on qualitative data, how much qualitative data are needed to override the NTGR based on quantitative data, how to handle contradictory information provided by more than one person at a given site, how to handle situations when there is no decision-maker interview, when there is no appropriate decision-maker interview, or when there is critical missing data on the questionnaire, and how to incorporate qualitative information on deferred free-ridership.

One must recognize that it is difficult to anticipate all the situations that one may encounter during the analysis. As a result, one may refine existing rules or even develop new ones during the initial phase of the analysis. One must also recognize that it is difficult to develop algorithms that effectively integrate the quantitative and qualitative data. It is therefore necessary to use judgment in deciding how much weight to give to the quantitative versus qualitative data and how to integrate the two. The methodology and estimates, however, must contain methods to support the validity of the integration methods through preponderance of evidence or other rules/procedures as discussed above.

For the **Standard-Very Large** cases in the large Nonresidential programs, the quantitative data used in the NTGR Calculator (which calculates the "core" NTGR), together with other information collected from the decision maker regarding the installation decision, form the initial basis for the NTG "story" for each site. Note that in most cases, supplemental data such as tracking data, program application files and results of interviews with program/IOU staff and vendors, will have been completed before the decision maker is contacted and will help guide the non-quantitative questioning in the interview. In practice, this means that most potential inconsistencies between decision maker responses and other sources of information should have been resolved before the interview is complete and data are entered into the NTGR Calculator. For example, if a company has an aggressive "green" policy widely promoted on its website that is not mentioned by the decision makers, the interviewer will ask the respondent to clarify the role of that policy in the decision. Conversely, if the decision maker attributes the

decision to install the equipment to a new company wide initiative rather than the program, yet there is no evidence of such an initiative reported by program staff, vendors, or the company's website, the decision maker will be asked to explain the discrepancy so that his or her responses can be changed if needed.

In some cases, however, it may be necessary to modify or override one of the scores contributing to the overall NTGR or the NTGR itself. Before this is done all quantitative and qualitative data will be systematically (and independently) analyzed by two experienced researchers who are familiar with the program, the individual site and the social science theory that underlies the decision maker survey instrument. Each will determine whether the additional information justifies modifying the previously calculated NTGR score, and will present any recommended modifications and their rationale in a well-organized manner, along with specific references to the supporting data. Again, it is important to note that the other influences can have the effect of either increasing or decreasing the NTGR calculated from the decision maker survey responses, and one should be skeptical about a consistent pattern of "corrections" in one direction or another.

Sometimes, *all* the quantitative and qualitative data will clearly point in the same direction while, in others, the *preponderance* of the data will point in the same direction. Other cases will be more ambiguous. In all cases, in order to maximize reliability, it is essential that more than one person be involved in analyzing the data. Each person must analyze the data separately and then compare and discuss the results. Important insights can emerge from the different ways in which two analysts look at the same set of data. Ultimately, differences must be resolved and a case made for a particular NTGR. Careful training of analysts in the systematic use of rules is essential to insure inter-rater reliability³.

Once the individual analysts have completed their review, they meet to discuss their respective findings and present to the other the rationale for their recommended changes to the Calculator-derived NTGR. Key points of these arguments will be written down in summary form (e.g., Analyst 1 reviewed recent AQMD ruling and concluded that customer would have had to install the same measure within 2 years, not 3, thereby reducing NP score from 7.8 to 5.5) and also presented in greater detail in a workpaper so that an independent reviewer can understand and judge the data and the logic underlying each NTGR estimate. Equally important, the CPUC will have all the essential data to enable them to replicate the results, and if necessary, to derive their own estimates.

The outcome of the reconciliation by two analysts determines the final NTGR for a specific project. Again, the reasoning behind the "negotiated" final value must be thoroughly documented in a workpaper, while a more concise summary description of the rationale can be included in the NTGR Calculator workbook (e.g., Analyst 1 and Analyst 2 agreed that the NTGR score should have been higher than the calculated value of 0.45

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³ Inter-rater reliability is the extent to which two or more individuals (coders or raters) agree. Inter-rater reliability addresses the consistency of the implementation of a rating system.

because of extensive interaction between program technical staff and the customer, but they disagreed on whether this meant the NTGR should be .6 or .7. After discussion, they agreed on a NTGR of .65 as reflecting the extent of program influence on the decision).

In summary, it has been decided that supplemental data from non-core NTG questions collected through these surveys should be used in the following ways in the California Large Nonresidential evaluations:

- Vendor interview data will be used at times in the direct calculation of the NTGR. It will also be used to provide context and confirming/contradictory information for Standard-Very Large decision maker interviews.
- Qualitative and quantitative information from other sources (e.g., industry data, vendor estimates of sales in no-program areas, and other data as described above) may be used to alter core inputs only if contradictions are found with the core survey responses. Since judgments will have to be made in deciding which information is more compelling when there are contradictions, supplemental data are reviewed independently by two senior analysts, who then summarize their findings and recommendations and together reach a final NTGR value.
- Responses will also be used to construct a NTGR "story" around the project; that is they will help to provide the context and rationale for the project. This is particularly valuable in helping to provide guidance to program design for future years. It may be, for example, that responses to the core questions yield a high NTGR for a project, but additional information sources strongly suggest that the program qualifying technology has since become standard practice for the firm or industry, so that free ridership rates in future years are likely to be higher if program rules are not changed.
- Findings from other non-core NTGR questions (e.g., Payback Battery, Corporate Policy Battery) are also be used to **cross-check the consistency** of responses to core NTGR questions. When an inconsistency is found, it is presented to the Decision Maker respondent who is then be asked to explain and resolve it if they can. If they are not able to do so, their responses to the core NTGR question with the inconsistency may be overridden by the findings from these supplemental probes. These situations are handled on a case-by-case basis; however consistency checks are programmed into the CATI survey instrument used for the Basic and Standard cases.

Finally, some analysis of additional information beyond the close-ended questions that are used to calculate the Core NTGR could be done for the **Standard NTGR**. For example information regarding the financial criteria used to make capital investments, corporate policy regarding the purchase of energy efficiency equipment or the influence of standard practice in the same industry as the participant could be taken into account and used to make adjustments to the Core NTGR in a manner similar what is done for the Standard – Very Large NTGR.

5.3. Accounting for Partial Free Ridership

Partial free-ridership can occur when, in the absence of the program, the participant would have installed something more efficient than the program-assumed baseline efficiency but not as efficient as the item actually installed as a result of the program.

In situations where there is partial free ridership, the assumed baseline condition is affected. Absent partial free ridership, the assumed baseline would normally be based on existing equipment (in early replacement cases), on code requirements (in normal replace on burnout cases), or on a level above current code (e.g., this could be a market average or value purposefully set above code minimum but below market average; in this case, the definition and requirement would typically be defined by a specific program's baseline rules). In some cases, there may be a "dual" baseline (more specifically, a baseline that changes over the measure's EUL) if the project involves early replacement plus partial free ridership. In such cases, the baseline basis for estimating savings is the existing equipment over the remaining useful life (RUL) of the equipment, and then a baseline of likely intermediate efficiency equipment (e.g., code or above) for the remainder of the analysis period (i.e., the period equal to the EUL-RUL). When there is partial free ridership, the baseline equipment that would have been installed absent the program is of an intermediate efficiency level (resulting in lower energy savings than that assumed by the program if the program took in situ equipment efficiency as the basis for savings over the entire EUL). A related issue with respect to determination of the appropriate baseline is whether the adjustment made, if any, from the in situ or otherwise claimed baseline in the ex ante calculation, is whether the adjustment applies to the gross or net savings calculation.

Assignment of Partial Free Ridership Effects to Gross versus Net. In past evaluations, partial free ridership impacts have principally been incorporated into the net-to-gross ratio. This is because most partial free ridership is induced by market conditions, rather than by non-market factors. Market conditions refer primarily to standard adoption of a technology by a particular market segment or end user as a result of competitive market forces or other end user-specific factors. The key determining principle with respect to application of the adjustment to the net-to-gross ratio is whether there is a level of efficiency, below the efficiency of the measure for which savings are paid and claimed, but above what is required by code or minimum program baseline requirements that the end user would have implemented anyway without the program. Conditions that cause this adjustment to be made to gross savings rather than the net-to-gross ratio may include factors such as

- changing baseline equipment to meet changed business circumstances (such as increased production/throughput, changes in occupancy, etc.);
- compliance with environmental regulations, indoor air quality requirements, safety requirements; or
- the need to address an operational problem.

Each project should be examined separately for partial free ridership and a determination should be made based on the unique circumstances of each installation of whether an adjustment to gross savings or the net-to-gross ratio is warranted.

Data Collection Procedures. Information is gathered on partial free ridership using the following questions asked as part of the decision maker NTGR survey.

- 1. Now I would like you to think one last time about what action you would have taken if the program had not been available. Supposing that you had not installed the program qualifying equipment, which of the following alternatives would you have been MOST likely to do?
 - a. Install fewer units
 - b. Install standard efficiency equipment or whatever required by code
 - c. Install equipment more efficient than code but less efficient than what you installed through the program
 - d. repair/rewind or overhaul the existing equipment
 - e. do nothing (keep the existing equipment as is)
 - f. something else (specify what _____)
- 2. (IF FEWER UNITS) How many fewer units would you have installed? (It is okay to take an answer such as ...HALF...or 10 percent fewer ... etc.)
- 3. (IF MORE EFFICIENT THAN CODE) Can you tell me what model or efficiency level you were considering as an alternative? (It is okay to take an answer such as ... 10 percent more efficient than code or 10 percent less efficient than the program equipment)
- 4. (IF REPAIR/REWIND/OVERHAUL) How long do you think the repaired/rewound/refurbished equipment would have lasted before requiring replacement?

In addition, these same partial free ridership questions should be asked during the on-site audit for a given project. This latter interview will be conducted by the project engineers. The collected information helps the gross impact and NTG analysis teams gain a more complete understanding of the true project baseline and equipment selection decision. These decision maker questions are included in the Excel version of the CATI-based Standard and Basic decision maker survey instrument as well as in the Standard-Very Large instrument.

Data Analysis and Integration Procedures. In cases where partial free ridership is found and it is determined that the adjustment should be made to the net-to-gross ratio, the following procedure should be used:

On the net side, the adjustment is based on the intermediate baseline indicated by the decision maker for the time period in which the intermediate equipment would have been installed. The calculation of energy saved under this intermediate baseline is done, and then divided by the savings calculated under the in situ baseline. The resulting ratio is then multiplied by the initial NTGR which was previously calculated using only the

'core' scoring inputs. The effect of this adjustment is to reduce the NTGR further to reflect the effects of the revealed partial free ridership.

In all cases, the Gross Impacts and NTG analysis teams will need to carefully coordinate their calculations to ensure that they are not inadvertently adjusting the savings twice for the same partial free ridership, i.e., through adjustments both to the gross savings calculation and to the NTG ratio.

6. NTGR INTERVIEW PROCESS

The NTGR surveys are conducted via telephone interviews. Highly-trained professionals with experience levels that are commensurate with the interview requirements should perform these interviews. Basic and Standard level interviews should be conducted by senior interviewers, who are highly experienced conducting telephone interviews of this type. Standard - Very Large interviews should be completed by professional consulting staff due to the complex nature of these projects and related decision making processes. More than likely, these will involve interviews of several entities involved in the project including the primary decision maker, vendor representatives, utility account executives, program staff and other decision influencers, as well as a review of market data to help establish an appropriate baseline.

All but the Standard -Very Large interviews should be conducted using computer-aided telephone interview (CATI) software. Use of a CATI approach has several advantages: (1) the surveys can be customized to reflect the unique characteristics of each program, and associated program descriptions, response categories, and skip patterns; (2) it drastically reduces inaccuracies associated with the more traditional paper and pencil method; and (3) the process of checking for inconsistent answers can be automated, with follow up prompts triggered when inconsistencies are found.

7. COMPLIANCE WITH SELF-REPORT GUIDELINES

The proposed NTGR framework fully complies with all of the CPUC/ED and the MECT's Guidelines for Estimating Net-to-Gross Ratios Using the Self-Report Approach.

Appendix A

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Appendix D

Survey Banners

This appendix provides the questions and responses to the phone survey. Each question and response is provided at the Program Period, HIM group and Building Type level as well as across Program Period.

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<fm050> What is the main business activity at this facility?</fm050>	8.90	15.05		58.25	0.00	0.14	0.00	3.69	38.84	0.00		0.00	6.86
Offices (non-medical) Restaurant/Food Service	18.02	15.85 28.91	6.71 14.60	0.00	68.98	88.56	0.00	8.96	0.00	87.54	1.24 83.73	0.00	6.06
Food Store (grocery/liquor/convenience)	1.13	1.74	0.93	0.00	11.25	0.05	0.00	0.91	0.00	7.63	0.09	0.00	1.61
Agricultural (farms, greenhouses) Retail Stores	0.01 44.77	0.03 35.55	0.00 47.66	0.00 1.95	0.00	0.00 11.25	0.00	0.08 71.61	0.00 8.53	0.00	0.00 14.94	0.00 48.47	0.00 75.06
Warehouse	1.39	1.58	1.33	5.73	0.00	0.00	0.00	0.42	4.27	0.00	0.00	0.00	2.50
Health Care	1.21	2.91	0.68	11.74	0.00	0.00	0.00	0.00	6.23	0.00	0.00	0.00	0.00
Education Public Assembly (church/fitness/theatre/	0.01 9.85	0.03 5.47	0.01	0.12 11.90	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00 22.17	0.00
Services (hair/nail/massage/spa/gas/repa	4.86	5.95	4.52	5.51	0.00	0.00	0.00	12.04	18.03	4.42	0.00	0.00	6.82
Industrial (food processing plant, Manuf Laundry (Coin Operated/Commercial Laundr	0.25	0.58	0.15	1.93 0.12	0.00	0.00	0.00	0.28	0.64	0.00	0.00	0.00	0.24
Caundry (Com Operated/Commercial Eauthor	9.60	1.38	12.19	2.77	0.00	0.00	0.00	1.76	3.06	0.00	0.00	29.37	0.37
n	564	278	286	106	38	34	3	96	93	43	34	13	102
<fm050a> Which of the following types of offices best describes the Administration and management</fm050a>	is facility? 21.47	22.43	20.67	22.35	0.00	100.00	0.00	21.60	16.82	0.00	100.00	0.00	24.15
Financial / Legal	25.42	38.94	14.21	41.88	0.00	0.00	0.00	1.30	20.62	0.00	0.00	0.00	0.00
Insurance/Real Estate	12.04	16.21	8.59	17.47	0.00	0.00	0.00	0.00	12.46	0.00	0.00	0.00	0.00
Mixed-Use/Multi-tenant Office with Warehouse	8.21 2.88	6.06 4.81	9.98 1.28	6.53 3.85	0.00	0.00	0.00	0.00 17.61	13.50 1.86	0.00	0.00	0.00	2.33 0.00
Contractors' Offices	1.93	0.61	3.03	0.65	0.00	0.00	0.00	0.00	4.39	0.00	0.00	0.00	0.00
Travel Services (Travel Agent)	1.22	1.04	1.38	0.95	0.00	0.00	0.00	2.15	2.00	0.00	0.00	0.00	0.00
Other n	26.83 125	9.91 67	40.85 58	6.32 59	0.00	0.00	0.00	57.34 7	28.35 53	0.00	0.00	0.00	73.51 4
<fm050b> Which of the following types of restaurants or food services: Fast Food or Self Services</fm050b>				?								0.01	
Fast Food or Self Service Specialty/Novelty Food Service	10.23 15.27	11.13 13.28	9.67 16.52	0.00	30.24 0.68	3.82 20.62	0.00	0.00 8.06	0.00	29.12 5.43	2.13 8.47	0.00	73.53
Table Service	59.53	55.90	61.81	0.00	53.04	68.54	0.00	0.00	0.00	55.78	79.68	0.00	0.00
Bar/Tavern/Nightclub/Brew Pub or Micro-B	8.56	11.97	6.42	0.00	8.75	0.00	0.00	79.74	0.00	2.33	9.73	0.00	1.27
Caterer Other	0.60 3.70	0.00 5.65	0.97 2.48	0.00	0.00	0.00 7.02	0.00	0.00 12.20	0.00	0.00	0.00	0.00	7.10 18.10
Other-Do not use unless necessary	2.11	2.06	2.13	0.00	7.03	0.00	0.00	0.00	0.00	7.34	0.00	0.00	0.00
n	144	66	78	0	32	31	0	3	0	39	31	0	8
<fm050c> Which of the following types of food stores best described the supermarkets</fm050c>	es this fac 28.73	20.64	33.40	0.00	26.03	0.00	0.00	0.00	0.00	84.92	0.00	0.00	0.00
Specialty/Ethnic Grocery/Deli	1.58	4.33	0.00	0.00	4.81	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Store	5.49	2.19	7.40	0.00	0.00	0.00	0.00	10.85	0.00	0.00	0.00	0.00	12.40
Liquor Store Retail Bakery	8.72 54.84	15.83 57.00	4.61 53.59	0.00	0.00 69.15	0.00	0.00	78.40 10.75	0.00	0.00	0.00	0.00	7.73 79.87
Other	0.64	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
r <fm050d> What type of agricultural facicility is this?</fm050d>	14	8	6	0	4	1	0	3	0	2	1	0	3
Commercial Farm	100.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
n FM050E> Which of the following types of retail stores best describ	1 ne this fac	1 ility2	0	0	0	0	0	1	0	0	0	0	0
Department / Variety Store	16.96	3.67	19.94	0.00	0.00	0.00	21.49	0.05	7.97	0.00	0.00	42.82	3.85
Retail Warehouse/Club	2.16	0.36	2.57	0.00	0.00	0.00	0.00	0.48	0.00	0.00		5.25	0.73
Shop in Enclosed Mall Shop in Strip Mall	1.51 16.56	0.00 22.78	1.85 15.16	0.00 5.73	0.00	0.00 100.00	0.00	0.00 21.59	0.00	0.00	0.00	0.00	3.47 21.96
Auto / Truck / Motorcycle Sales	1.48	4.77	0.75	0.00	0.00	0.00	0.00	6.35	0.00	0.00	0.00	0.99	0.63
Art Gallery	2.35	1.95	2.44	0.00	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.00	4.58
Heavy Equipment Sales Facility is a Mall/Strip Mall	0.97 2.78	0.00 2.19	1.18 2.91	0.00	0.00	0.00	0.00	0.00 2.91	0.00 17.32	0.00	0.00	0.00	2.22 4.81
10	11.47	24.78	8.48	23.70	0.00	0.00	0.00	32.52	13.95	100.00	0.00	0.00	15.29
Other n	43.75 146	39.49 67	44.70 79	70.57 6	0.00	0.00	78.51 3	33.50 57	60.76 6	0.00	0.00	50.30	42.46 64
<fm050f> Which of the following types of warehouses best describ</fm050f>			79		U		3	57	٥		,	/	04
Unconditioned Warehouse, High Bay(lightin	3.96	14.56	0.00	5.77	0.00	0.00	0.00	92.79	0.00	0.00	0.00	0.00	0.00
Unconditioned Warehouse,Low Bay	18.61 19.94	68.42 7.27	0.00 24.68	76.11 8.09	0.00	0.00	0.00	0.00	0.00 70.53	0.00	0.00	0.00	0.00
Shipping / Distribution Center Garage / Parking / Storage for Commercia	0.20	0.73	0.00	0.00	0.00	0.00	0.00	7.21	0.00	0.00	0.00	0.00	0.00
Public Self-Storage Facility	1.46	5.36	0.00	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other n	55.83 13	3.66	75.32 5	4.07	0.00	0.00	0.00	0.00	29.47 4	0.00	0.00	0.00	100.00
<fm050g> Which of the following types of health care centers best</fm050g>	describes	this facilit	y?										
Medical/Dental Office Clinic/Outpatient Care	13.67	21.82 44.31	2.68 12.65	21.82 44.31	0.00	0.00	0.00	0.00	2.68 12.65	0.00	0.00	0.00	0.00
Alchohol/Drug Treatment / Rehabilitation	2.42	44.31	0.00	44.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Doctor's Office	4.56	7.94	0.00	7.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dentist's Office	9.90	10.83	8.64 76.03	10.83	0.00	0.00	0.00	0.00	8.64 76.03	0.00	0.00	0.00	0.00
Othor		10.88	70.03	13	0.00	0.00	0.00	0.00	7 7	0.00	0.00	0.00	0.00
Other n	20		_										
<fm050h> Which of the following types of educational centers best</fm050h>	describes			40					100 -			0	
		this facilit	100.00 1	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
<fm050h> Which of the following types of educational centers best Vocational or Trade School</fm050h>	describes 100.00 2	100.00	100.00	1	0	0	0	0	1	0	0	0	0
<fm050h> Which of the following types of educational centers best Vocational or Trade School n <fm050d> Which of the following types of lodging best describes th</fm050d></fm050h>	100.00 2 s facility?	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<fm050h> Which of the following types of educational centers best Vocational or Trade School n <fm050i> Which of the following types of lodging best describes the</fm050i></fm050h>	100.00 2 s facility? 0.00	0.00 0	100.00 1 0.00	1	0	0	0	0	1	0	0	0	0
<fm050h> Which of the following types of educational centers best Vocational or Trade School on Trade Schoo</fm050h>	100.00 2 s facility? 0.00 0 s best desi	0.00 0 cribes this	0.00 0 (facility?	0.00	0.00	0.00	0.00	0.00	0.00 0 45.40	0.00	0.00	0.00	0.00
FM050H> Which of the following types of educational centers best Vocational or Trade School on Trade School	100.00 2 s facility? 0.00 0 s best desi 15.37 1.55	0.00 0 cribes this 57.31 1.72	0.00 0 0 facility? 8.94 1.53	0.00 0 23.86 0.00	0.00 0 100.00 0.00	0.00 0 0.00 0.00	0.00 0 0.00 0.00	0.00 0 0.00 100.00	0.00 0 45.40 0.00	0.00 0 0.00 0.00	0.00 0 0.00 0.00	0.00 0 0.00 0.00	0.00 0 0.00 100.00
<fm050h> Which of the following types of educational centers best Vocational or Trade School on Trade Schoo</fm050h>	100.00 2 s facility? 0.00 0 s best desi	0.00 0 cribes this	0.00 0 (facility?	0.00	0.00	0.00	0.00	0.00	0.00 0 45.40	0.00	0.00	0.00	0.00
<fm050h> Which of the following types of educational centers best Vocational or Trade School on Trade Schoo</fm050h>	describes 100.00 2 s facility? 0.00 0 s best desi 15.37 1.55 0.10 70.58 1.53	0.00 0 cribes this 57.31 1.72 0.00 2.79 11.54	0.00 0 1 facility? 8.94 1.53 0.12 80.97	0.00 0 23.86 0.00 0.00 5.18 21.44	0.00 0 100.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0 0 0.00 100.00 0.00 0.00 0.00	0.00 0 45.40 0.00 0.61 11.05 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0 0.00 0.00 0.00 0.00 100.00	0.00 0.00 100.00 0.00 0.00 0.00
<fm050h> Which of the following types of educational centers best Vocational or Trade School on Trade Schoo</fm050h>	describes 100.00 2 s facility? 0.00 0 s best describes 15.37 1.55 0.10 70.58	0.00 0.00 0 cribes this 57.31 1.72 0.00 2.79	0.00 0.00 6 facility? 8.94 1.53 0.12 80.97	0.00 0 23.86 0.00 0.00 5.18	0.00 0 100.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0 0.00 0.00 0.00 0.00	0.00 0 0 0.00 100.00 0.00 0.00	0.00 0 45.40 0.00 0.61 11.05	0.00 0.00 0.00 0.00 0.00	0.00 0 0.00 0.00 0.00 0.00	0.00 0 0 0.00 0.00 0.00 100.00	0.00 0 0.00 100.00 0.00 0.00

<fm050k> Which of the following types of service buildings best des</fm050k>	cribes thi	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
Hair Salon	26.93	36.81	22.61	0.00	0.00	0.00	0.00	47.76	0.00	0.00	0.00	0.00	46.02
Day Spa Gas Station / Auto Repair	3.02 9.02	1.29	3.77 7.69	0.00 42.73	0.00	0.00	0.00	1.68 2.95	7.34	0.00	0.00	0.00	7.68 8.80
Gas Station w/Convenience Store	3.46	0.00	4.98	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
General Repair (Non-Auto) Package Delivery (Fed Ex / UPS / DHL)	4.87 4.78	1.76	6.23 6.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.68
Pet Care / Grooming	4.10	0.00	5.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.01
Photographer Vehicle Inspections	4.17 0.29	8.60 0.00	2.24 0.41	37.49 0.00	0.00	0.00	0.00	0.00	4.87	0.00	0.00	0.00	0.00
Upholstery	4.13	0.00	5.93	0.00	0.00	0.00	0.00	0.00	12.92	0.00	0.00	0.00	0.00
Other n	35.23 41	39.48 19	33.37 22	19.78	0.00	0.00	0.00	45.34 14	59.88 9	0.00	0.00	0.00	11.98
<fm050l> Which of the following types of buildings best describes the</fm050l>	nis facility	?											
Assembly / Light Manufacturing Other	65.73 34.27	81.99 18.01	46.07 53.93	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
n	8	6	2	5	0	0	0	1	1	0	0	0	1
<fm050m> What type of laundry facility is this? Dry Cleaners</fm050m>	100.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	1	1	0	1	0	0	0	0	0	0	0	0	0
<fm050n> Which of the following types of buildings best describes to</fm050n>	his facility 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<fm050o> Which of the following types of buildings best describes t</fm050o>	his facility 0.00	/ ?	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0
<cc2a> What is the total square footage at this facility? Less than 1500 sq ft</cc2a>	12.83	18.01	11.02	21.06	14.11	3.80	0.00	27.15	14.48	21.85	2.89	0.00	20.21
Between 1500 and 5000 sq ft	31.18	40.41	27.95	24.83	39.77	74.59	9.08	38.18	30.61	60.72	47.91	0.41	40.44
Between 5000 and 10,000 sq ft Between 10,000 and 25,000 sq ft	8.44 7.42	7.57 3.02	8.74 8.96	8.89 0.76	21.73	12.14	0.00	0.94 7.44	13.45 8.65	8.27 0.00	32.56 8.03	0.00 8.90	7.99 10.62
Between 25,000 and 50,000 sq ft	12.30	10.88	12.80	5.89	0.00	0.00	69.43	14.43	8.73	0.00	0.00	32.44	2.71
Between 50,000 and 75,000 sq ft Over 100,000 sq ft (Ag area)	0.64 7.30	1.32	0.41 9.86	5.32	0.00	0.00	0.00	0.00	2.25 0.00	0.00	0.00	0.41 29.87	0.00
Don't Know	19.89	18.81	20.27	33.26	24.40	9.47	21.49	11.85	21.83	9.16	8.61	27.97	18.03
<cc2b> Would you say that the floor area is</cc2b>	561	278	283	106	38	34	3	96	93	43	34	10	102
Less than 1500 sq ft	7.72	14.80	5.41	28.88	0.00	4.54	0.00	7.18	18.13	7.14	15.36	0.00	6.29
Between 1500 and 5000 sq ft Between 5000 and 10,000 sq ft	46.42 2.45	71.12 4.97	38.39 1.63	63.28	95.86 0.00	95.46 0.00	0.00	78.73 9.14	27.22 4.46	83.81	84.64 0.00	0.00	84.26 2.82
Between 10,000 and 25,000 sq ft	39.93	6.46	50.81	0.00	0.00	0.00	100.00	0.00	40.53	0.00	0.00	100.00	0.00
Between 25,000 and 50,000 sq ft Don't Know	0.54 2.94	0.31 2.33	0.62 3.13	0.70	0.00 4.14	0.00	0.00	0.00 4.94	4.72 4.94	0.00 9.05	0.00	0.00	0.00 6.63
n	107	54	53	28	4	5	1	15	18	6	6	1	21
<cc2c> Is the entire floor area of this facility heated or cooled? Yes</cc2c>	81.72	78.08	83.00	72.13	91.70	81.10	100.00	72.81	68.35	80.80	82.09	100.00	73.63
No	17.64	21.92	16.14	27.87	8.30	18.90	0.00	27.19	31.65	19.20	17.91	0.00	24.12
Don't Know	0.64 561	0.00 278	0.87 283	0.00 106	0.00	0.00	0.00	0.00 96	0.00	0.00 43	0.00 34	0.00	2.25 102
<cc2d> What percentage of the floor area is heated or cooled at htis</cc2d>	facility?												
0 Percent Between 0 and 15 Percent	26.65 5.06	29.04 10.78	25.51 2.33	30.87 24.40	14.56 0.00	31.40 0.00	0.00	28.51 6.58	12.73 9.83	11.13	12.37	0.00	35.24 0.00
Between 15 and 30 Percent	7.76	8.75	7.29	8.71	0.00	32.20	0.00	1.43	6.34	0.00	12.50	0.00	7.40
Between 30 and 45 Percent Between 45 and 60 Percent	8.17 14.20	4.00 10.85	10.15 15.80	12.28 5.34	0.00 83.25	0.00	0.00	0.29 10.94	6.68 33.44	39.54 19.16	1.61 0.00	0.00	10.17 11.35
Between 60 and 80 Percent	14.43	7.02	17.95	0.87	0.00	36.40	0.00	1.53	21.00	5.40	73.53	0.00	6.27
Between 80 and 100 Percent 100 Percent	9.98 2.60	12.41 0.89	8.82 3.41	9.09	0.00	0.00	0.00	20.25 0.95	2.98 5.20	24.77 0.00	0.00	0.00	11.36 3.78
Don't Know	11.15 160	16.26 86	8.72 74	7.04 35	2.19	0.00	0.00	29.54 38	1.82	0.00	0.00	0.00	14.42
CC3A> Is your space heated using electricity or gas?	160	80	/4	35	4	8	0	30	20	8		0	32
Electricity	39.70	39.07	39.91	58.53		51.13	21.49	31.41	50.09	39.05	44.05	28.74	46.00
Gas Both Gas and Electricty	38.32 11.24	36.65 12.72	38.90 10.73	35.54 1.19	52.72 25.79	34.97 12.65	78.51 0.00	25.95 17.71	29.70 14.62	47.86 8.20	50.26 4.38	50.25 16.19	26.17 6.56
Propane	0.05 6.24	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00 3.83	0.00	0.00	0.18
5 Other	2.93	0.20	5.30 3.87	0.00	4.84 0.00	0.00	0.00	0.53	0.81	0.00	0.00	4.82	13.40 6.08
Don't Know	1.53 504	2.40 247	1.22 257	4.04	1.51	0.00	0.00	3.27 77	4.77 88	1.06 42	0.00	0.00	1.61 85
<c0> About what percentage of your operating costs does energy ac</c0>			201	100	3/	29	3	- //	00	42	31	70	85
Less than 1 percent 1 to 2 percent	4.01 11.96	5.00 17.05	3.66 10.18	8.80 12.58	0.00	0.00 4.92	0.00 9.08	7.41	4.26 13.95	4.76 12.20	0.00 3.04	0.00	7.52 19.15
3 to 5 percent	15.02	19.61	13.41	34.55	22.61	17.60	0.00	12.87	11.68	17.94	22.84	3.31	19.13
6 to 10 percent 11 to 15 percent	13.60 8.43	13.13 7.41	13.77 8.79	7.61 10.83	14.73 0.00	19.86 11.46	0.00	14.69 6.64	15.85 9.37	40.43 1.57	26.47 0.00	0.65 16.99	16.97 5.11
16 to 20 percent	2.04	3.94	1.37	3.72	0.00	9.03	0.00	3.38	5.32	1.14	4.55	0.00	0.42
21 to 50 percent	4.31 1.20	9.53 1.21	2.48 1.19	6.04 2.01	4.22	6.57 0.00	0.00	16.43 0.94	2.92 5.51	2.60 0.31	2.93	0.00	4.32 1.32
Over 51 percent Don't Know	39.43	23.12	45.15	13.86	21.58	30.54	90.92	15.83	31.16	19.05	40.17	78.65	25.91
n	561	278	283	106	38	34	3	96	93	43	34	10	102
CCCAN Door your business own Issue as manage the facility of		24.70	23.07	42.96		10.87	21.49	13.37	35.03	19.94	15.23	32.91	13.51
<cc4> Does your business own, lease or manage the facility? Own</cc4>	23.49			50.00	54.13	89.14	78.51	86.21	64.98	75.31	84.77	67.09	86.37 0.12
Own Lease/Rent	76.24	75.12	76.63	56.92		0.00			0.00	A 70		0.00	
Own LesseRent Manage Refused	76.24 0.23 0.04	75.12 0.04 0.15	0.30	0.12	0.00	0.00	0.00	0.03	0.00	4.76 0.00	0.00	0.00	0.00
Own Lesse/Rent Manage Refused Refused	76.24 0.23	75.12 0.04	0.30	0.12	0.00		0.00	0.03			0.00		0.00 102
Own Lesse/Rent Manage Refused η <c5> How many locations does your organization have. Is it This facility only</c5>	76.24 0.23 0.04 561 69.72	75.12 0.04 0.15 278 74.48	0.30 0.00 283 68.06	0.12 0.00 106 75.34	0.00 0.00 38 65.18	0.00 34 67.37	0.00 0.00 3 69.43	0.03 0.39 96 81.32	0.00 93 73.99	0.00 43 77.35	0.00 0.00 34 72.55	0.00 10 62.96	68.01
Own Lesse/Rent Manage Refused CS> How many locations does your organization have. Is it This facility only 2 to 4 locations	76.24 0.23 0.04 561 69.72	75.12 0.04 0.15 278 74.48 16.66	0.30 0.00 283 68.06 17.49	0.12 0.00 106 75.34 15.76	0.00 0.00 38 65.18 23.38	0.00 34 67.37 23.75	0.00 0.00 3 69.43 9.08	0.03 0.39 96 81.32 12.56	73.99 10.49	0.00 43 77.35 14.32	0.00 0.00 34 72.55 24.99	0.00 10 62.96 8.54	68.01 25.62
Own Lesse/Rent Manage Refused n C5">C5">C5">C5">C5">C5">C5">C5">C5	76.24 0.23 0.04 561 69.72 17.28 2.01	75.12 0.04 0.15 278 74.48 16.66 3.90	0.30 0.00 283 68.06 17.49 1.35	0.12 0.00 106 75.34 15.76 0.36 1.96	0.00 0.00 38 65.18 23.38 5.00 5.96	0.00 34 67.37 23.75 6.76 0.44	0.00 0.00 3 69.43 9.08 0.00 0.00	0.03 0.39 96 81.32 12.56 4.98 0.40	73.99 10.49 5.34	77.35 14.32 0.33 6.41	72.55 24.99 1.20	0.00 10 62.96 8.54 0.41 0.00	68.01 25.62 1.09
Own Lease/Rent Manage Refused n <c5> How many locations does your organization have. Is it This facility only 2 to 4 locations 5 to 10 locations</c5>	76.24 0.23 0.04 561 69.72 17.28 2.01 1.24 9.75	75.12 0.04 0.15 278 74.48 16.66 3.90 1.46 3.51	0.30 0.00 283 68.06 17.49 1.35 1.16	0.12 0.00 106 75.34 15.76 0.36 1.96 6.58	0.00 0.00 38 65.18 23.38 5.00 5.96	0.00 34 67.37 23.75 6.76 0.44 1.68	0.00 0.00 3 69.43 9.08 0.00	0.03 0.39 96 81.32 12.56 4.98 0.40 0.74	73.99 10.49 5.34 1.27 8.90	77.35 14.32 0.33	72.55 24.99 1.20 0.00	0.00 10 62.96 8.54 0.41 0.00 28.09	68.01 25.62 1.09 1.72 3.57
Own Lesse/Rent Manage Refused n CS> How many locations does your organization have, Is it This facility only 2 to 4 locations 5 to 10 locations 11 to 25 locations 7 More than 25 locations 0 Acceptable of the control of the con	76.24 0.23 0.04 561 69.72 17.28 2.01 1.24 9.75 561 and clima	75.12 0.04 0.15 278 74.48 16.66 3.90 1.46 3.51 278 te contro	0.30 0.00 283 68.06 17.49 1.35 1.16 11.94 283	0.12 0.00 106 75.34 15.76 0.36 1.96 6.58 106	0.00 0.00 38 65.18 23.38 5.00 5.96 0.48 38	0.00 34 67.37 23.75 6.76 0.44 1.68 34 ions at thi	0.00 0.00 3 69.43 9.08 0.00 0.00 21.49 3 s facility?	0.03 0.39 96 81.32 12.56 4.98 0.40 0.74 96 Would yo	73.99 10.49 5.34 1.27 8.90 93	77.35 14.32 0.33 6.41 1.60 43	72.55 24.99 1.20 0.00 1.25 34	0.00 10 62.96 8.54 0.41 0.00 28.09	68.01 25.62 1.09 1.72 3.57
Own Lesse/Rent Lesse/Rent Manage Refused C5> How many locations does your organization have, is it This facility only 2 to 4 locations 5 to 10 locations 11 to 25 locations 11 to 25 locations More than 25 locations CC6> How active a role does your business take in making lighting Very active – involved in all phases and have veto power	76.24 0.23 0.04 561 69.72 17.28 2.01 1.24 9.75 561 and clima	75.12 0.04 0.15 278 74.48 16.66 3.90 1.46 3.51 278 te contro	0.30 0.00 283 68.06 17.49 1.35 1.16 11.94 283 I equipme 74.73	0.12 0.00 106 75.34 15.76 0.36 1.96 6.58 106 ent purcha	0.00 0.00 38 65.18 23.38 5.00 5.96 0.48 38 ase decis	0.00 34 67.37 23.75 6.76 0.44 1.68 34 ions at thi	0.00 0.00 3 69.43 9.08 0.00 0.00 21.49 3 s facility?	0.03 0.39 96 81.32 12.56 4.98 0.40 0.74 96 Would yourded	73.99 10.49 5.34 1.27 8.90 93 ou say y	0.00 43 77.35 14.32 0.33 6.41 1.60 43 ou are 73.87	72.55 24.99 1.20 0.00 1.25 34	0.00 10 62.96 8.54 0.41 0.00 28.09 10	68.01 25.62 1.09 1.72 3.57 102
Own Lesse/Rent Alexage Refused A CSS> How many locations does your organization have. Is it This facility only 2 to 4 locations 5 to 10 locations 11 to 25 locations More than 25 locations More than 25 locations CCCS> How active a role does your business take in making lighting Very active – involved in all phases and have veto power Somewhat active-we approve decisions and provide some input and review	76.24 0.23 0.04 561 69.72 17.28 2.01 1.24 9.75 561 and climar 74.06 17.80 3.57	75.12 0.04 0.15 278 74.48 16.66 3.90 1.46 3.51 278 te contro 72.16 15.73 5.73	0.30 0.00 283 68.06 17.49 1.35 1.16 11.94 283 equipme 74.73 18.53 2.82	0.12 0.00 106 75.34 15.76 0.36 1.96 6.58 106 57.89 23.26 11.59	0.00 0.00 38 65.18 23.38 5.00 5.96 0.48 38 83.60 6.07 5.00	0.00 34 67.37 23.75 6.76 0.44 1.68 34 ons at thi 59.86 31.38 8.76	0.00 0.00 3 69.43 9.08 0.00 21.49 3 s facility? 78.51 21.49 0.00	0.03 0.39 96 81.32 12.56 4.98 0.40 0.74 96 Would yr 82.99 5.21 1.50	73.99 10.49 5.34 1.27 8.90 93 bu say yi 80.08 12.08 2.81	0.00 43 77.35 14.32 0.33 6.41 1.60 43 ou are 73.87 9.36 13.54	0.00 0.00 34 72.55 24.99 1.20 0.00 1.25 34 58.46 36.42 5.12	0.00 10 62.96 8.54 0.41 0.00 28.09 10 68.60 31.28 0.00	102 68.01 25.62 1.09 1.72 3.57 102 83.08 5.78 3.08
Own Lesse/Rent Manage Refused (C5> How many locations does your organization have. Is it This facility only 2 to 4 locations 5 to 10 locations 11 to 25 locations or More than 25 locations or More than 25 locations or More than 25 locations 12 locations 13 locations 14 locations 15 locations or More than 25 locations or More than 25 locations or More than 25 locations 17 locations 18 locations 19 locations 19 locations 10 locations 10 locations 11 locat	76.24 0.23 0.04 561 69.72 17.28 2.01 9.75 561 and clima 74.06 17.80	75.12 0.04 0.15 278 74.48 16.66 3.90 3.51 278 te contro	0.30 0.00 283 68.06 17.49 1.35 1.16 11.94 283 equipme 74.73 18.53	0.12 0.00 106 75.34 15.76 0.36 1.96 6.58 106 57.89 23.26	0.00 0.00 38 65.18 23.38 5.00 5.96 0.48 38 ase decisi 83.60 6.07	0.00 34 67.37 23.75 6.76 0.44 1.68 34 ions at thi 59.86 31.38	0.00 0.00 3 69.43 9.08 0.00 21.49 3 s facility? 78.51 21.49 0.00	0.03 0.39 96 81.32 12.56 4.98 0.40 0.74 96 Would yo 82.99 5.21 1.50	73.99 10.49 5.34 1.27 8.90 93 ou say y 80.08 12.08	0.00 43 77.35 14.32 0.33 6.41 1.60 43 ou are 73.87 9.36	72.55 24.99 1.20 0.00 1.25 34 58.46 36.42	0.00 10 62.96 8.54 0.41 0.00 28.09 10 68.60 31.28	102 68.01 25.62 1.09 1.72 3.57 102 83.08 5.78
Own Lesse/Rent Alexage Refused A CS5> How many locations does your organization have. Is it This facility only 2 to 4 locations 5 to 10 locations 11 to 25 locations More than 25 locations More than 25 locations CCC5> How active a role does your business take in making lighting Very active – involved in all phases and have veto power Somewhat active-we approve decisions and provide some input and review	76.24 0.23 0.04 561 69.72 17.28 2.01 1.24 9.75 561 and clima 17.80 3.57 0.41	75.12 0.04 0.15 278 74.48 16.66 3.90 1.46 3.51 278 te contro 72.16 15.73 5.73	0.30 0.00 283 68.06 17.49 1.35 1.16 11.94 283 283 equipme 74.73 18.53 2.82 0.29	0.12 0.00 706 75.34 15.76 0.36 1.96 6.58 706 ent purche 57.89 23.26 11.59	0.00 0.00 0.00 38 65.18 23.38 5.00 5.96 0.48 38 ase decis 6.607 5.00 5.07	0.00 34 67.37 23.75 6.76 0.44 1.68 34 ons at thi 59.86 31.38 8.76	0.00 0.00 3 69.43 9.08 0.00 21.49 3 s facility? 78.51 21.49 0.00	0.03 0.39 96 81.32 12.56 4.98 0.40 0.74 96 Would yr 82.99 5.21 1.50	73.99 10.49 5.34 1.27 8.90 93 bu say yi 80.08 12.08 2.81 0.00	77.35 14.32 0.33 6.41 1.60 43 Du are 73.87 9.36 13.54	0.00 0.00 34 72.55 24.99 1.20 0.00 1.25 34 58.46 36.42 5.12	0.00 10 62.96 8.54 0.41 0.00 28.09 10 68.60 31.28 0.00 0.12	102 68.01 25.62 1.09 1.72 3.57 102 83.08 5.78 3.08 0.39

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<cc8> In what year was your facility built? After 2000</cc8>	5.99	5.08	6.31	8.40	0.62	2.86	0.00	6.25	11.87	15.61	24.33	0.00	3.51
In the 1990's 1980's	4.58 8.02	4.60 6.54	4.58 8.54	1.69 6.43	12.47 11.92	11.85 0.44	0.00	0.97 8.92	0.74 7.29	10.63 7.97	8.67 1.69	0.00 16.99	7.69 3.75
1970's	5.69	9.64	4.31	9.81	15.89	17.91	0.00	4.76	13.78	16.35	7.09	0.00	2.56
1960's 1950's	4.05 2.90	7.31 3.83	2.90 2.58	6.27 1.89	23.67 0.00	14.21 0.00	0.00	0.31 8.84	1.32 1.62	3.91 1.67	19.96 0.00	0.00	0.85 5.96
Before 1950 Don't Know	9.95 58.81	10.81 52.19	9.65 61.13	0.77 64.73	0.00 35.44	0.14 52.59	0.00	27.84 42.11	9.99 53.39	4.93 38.92	0.00 38.26	12.88 70.13	10.21 65.49
n CC10> If Don't Know, would you say it was	561	278	283	106	38	34	3	96	93	43	34	10	102
After 2000 In the 1990's	0.89	0.64	0.97	0.00	7.40	0.00	0.00	0.07	3.55	2.66	0.75	0.18	0.93
1980's	18.76 11.00	9.10 17.38	21.65 9.09	6.63 26.78	30.51 2.26	1.12 17.60	21.49 0.00	6.42 17.96	10.65 17.91	18.23 15.90	4.43 9.76	39.88 0.00	10.92 14.44
1970's 1960's	30.66 13.96	21.42 15.08	33.42 13.62	15.68 21.94	11.60 5.83	32.39 25.13	69.43 0.00	6.00 9.74	13.86 14.06	36.51 8.76	24.37 29.00	47.77 0.00	26.55 23.84
1950's Before 1950	7.94 6.87	10.89 15.43	7.06 4.31	5.03 19.21	3.85 37.21	11.39 1.63	0.00 9.08	22.22 16.68	13.87 5.60	0.00 13.29	0.00	11.59 0.58	2.91 7.37
Don't Know	9.92	10.06	9.88	4.73	1.34	10.74	0.00	20.91	20.50	4.64	31.53	0.00	13.03
<cc11> In what year was this facility last remodeled?</cc11>	348	175	173	71		17	3	64	59	19	19	8	67
Between 2008 and present Between 2000 and 2007	47.76 21.00	45.20 18.91	48.65 21.73	49.67 23.41	53.08 26.54	32.60 40.98	78.51 0.00	41.12 5.19	53.71 20.56	33.44 55.02	38.17 39.29	53.27 18.12	48.20 15.54
During the 1990's OR Before the 1990's	7.21	8.79	6.65	13.73		4.49	0.00	10.25	14.16	7.70	8.72 5.01	0.00	9.26
Don't Know	20.81	23.24	19.97	11.05	10.80	18.97	21.49	37.61	8.32	1.17 2.67	8.81	27.97	22.39
CC11A> Would you say the last remodeling was done	561	278	283	106	38	34	3	96	93	43	34	10	102
Between 2008 and present	8.08 5.79	11.35 2.37	6.75	0.00 18.25	0.00	40.17 0.00	0.00	8.21 0.36	0.00 4.50	0.00	33.23 0.00	0.00	11.89
Between 2000 and 2007 During the 1990's OR	4.05	7.61	7.19 2.59	6.58	0.00	40.18	0.00	0.88	15.22	0.00	14.29	0.00	16.13 2.61
Before the 1990's Don't Know	15.78 66.30	32.46 46.20	8.98 74.49	31.54 43.62	15.90 84.10	18.89 0.76	0.00	40.39 50.16	29.00 51.28	17.91 82.09	18.82 33.66	0.00	15.00 54.37
n <cc12a> In what year was this organization established at this locat</cc12a>	119	66	53	23	7	9	1	26	14	5	7	1	26
Between 2009 and present	25.57	24.07	26.09	21.16		6.56	78.51	29.51	16.27	29.47	6.64	36.16	25.68
Between 2006 and 2008 Between 2000 and 2005	8.82 16.53	9.60 14.62	8.55 17.21	4.15 14.58	5.65 15.90	17.73 35.83	0.00	11.75 5.71	7.63 26.72	15.77 26.98	31.24 36.72	0.41 4.82	8.30 17.87
In the 1990's 1980's	17.95 11.19	25.00 10.23	15.48 11.53	35.61 12.57	10.34 19.13	33.27 3.25	0.00	22.40 10.89	18.88 11.62	11.63 7.26	17.36 2.17	0.00 17.63	27.70 9.54
1970's	4.13	4.31	4.07	7.28	9.17	0.14	0.00	3.56	15.65	6.70	0.00	0.00	4.71
1960's 1950's	1.89 1.52	3.81 3.05	1.22 0.98	0.62	22.86 0.00	2.96 0.00	0.00	0.72 8.02	2.25 0.00	0.42	5.01 0.00	0.00	0.96 2.55
Before 1950 Don't Know	3.25 9.14	0.00 5.30	4.39 10.49	0.00 4.03	0.00 1.44	0.00 0.26	0.00 21.49	0.00 7.44	0.00	0.00 1.76	0.00	12.88 28.09	0.36 2.33
n	561	278	283	106	38	34	3	96	93	43	34	10	102
<cc12b> If Don't Know, would you say it was After 2005</cc12b>	78.20	22.94		0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	99.56	0.00
Between 2000 and 2005 In the 1990s	1.72 14.32	9.25 54.37	0.39 7.23	49.11 10.28	0.00 33.04	0.00	0.00	0.00 96.06	0.00 23.75	0.00 90.56	0.00	0.44	0.00 72.06
In the 1980s In the 1970s	1.78 2.86	3.37 7.48	1.49	10.24 16.61	0.00 66.96	100.00	0.00	0.00 3.94	0.00	0.00 9.44	100.00	0.00	4.96 22.98
Before 1960	1.12	2.59	0.86	13.77	0.00	0.00	0.00	0.00	76.25	0.00	0.00	0.00	0.00
n SBC090> Has the square footage of the facility increased, decreased	25 or rema	13 ained the	12 same sin	6 ce Janua	ry 2009?	1	1	2	2	2	1	2	4
Increase in square footage Decrease in square footage	0.77	0.80	0.76 0.16	0.00	2.87	0.44	0.00	0.95	3.38 1.32	6.48	0.00	0.00	0.00
Stayed the same	97.87	97.75	97.92	97.00	94.76	99.56	100.00	97.95	95.29	93.52	100.00	100.00	96.97
Don't Know n	1.09 561	0.87 278	1.17 283	0.65 106	2.36 38	0.00 34	0.00	1.09 96	0.00 93	0.00 43	0.00 34	0.00	3.03 102
<bc100> How many square feet were added? Less than 1500 sq ft</bc100>	50.46	63.78	45.86	0.00	100.00	100.00	0.00	12.18	0.00	100.00	0.00	0.00	0.00
Between 1500 and 5000 sq ft	40.24 9.30	0.00 36.22	54.14 0.00	0.00	0.00	0.00	0.00	0.00 87.82	100.00	0.00	0.00	0.00	0.00
Between 5000 and 10,000 sq ft n	8.30	30.22	4	0.00	1	1	0.00	2	3	1	0.00	0.00	0.00
<bc110> How many square feet was the facility reduced? Between 1500 and 5000 sq ft</bc110>	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
n <bc120> What year did this change in square feet occur?</bc120>	2	1	1	1	0	0	0	0	1	0	0	0	0
2010	8.03	0.00	12.28	0.00	0.00	0.00	0.00	0.00	19.75	0.00	0.00	0.00	0.00
2011	22.14	2.71	32.41	0.00	0.00	0.00	0.00	10.34	28.10 52.15	0.00	0.00	0.00	0.00
		6.16	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 n	2.13 11	6	5	1	1	1	0	3	4	1	0	U	
6 n <ca15> Over the past 3 years, how would you characterize your org</ca15>	11 anization'	6 s busines	s outlook	?						-			15.14
6 6 n CA15> Over the past 3 years, how would you characterize your org Excellent Good	11 anization' 15.28 39.60	6 s busines 26.07 37.49	s outlook 11.50 40.33	43.48 26.94	43.00 40.67	5.25 45.80	0.00 21.49	23.60 41.53	35.55 38.16	12.75 48.07	4.11 26.46	0.65	15.14 38.91
6 n <ca15> Over the past 3 years, how would you characterize your org Excellent</ca15>	anization's 15.28	6 s busines 26.07	11.50 40.33 30.11	43.48	43.00 40.67 7.93	5.25	0.00	23.60	35.55	12.75	4.11	0.65	
6 6 n CCA15> Over the past 3 years, how would you characterize your org Excellent Good Fair	11 15.28 39.60 27.28 10.25 7.06	6 8 busines 26.07 37.49 19.18 8.52 8.12	11.50 40.33 30.11	26.94 12.99	43.00 40.67 7.93	5.25 45.80 20.51 6.65 21.80	0.00 21.49 78.51	23.60 41.53 17.37	35.55 38.16 15.53	12.75 48.07 19.74	4.11 26.46 42.26	0.65 46.21 53.15	38.91 12.92
6 6 n rCA15> Over the past 3 years, how would you characterize your org Excellent Good Fair Adequate OR Poor Refused Don't Know	11 anization': 15.28 39.60 27.28 10.25 7.06 0.47 0.07	6 s busines 26.07 37.49 19.18 8.52 8.12 0.62 0.00	11.50 40.33 30.11 10.85 6.69 0.41	43.48 26.94 12.99 9.42 7.17 0.00	43.00 40.67 7.93 3.09 1.50 3.81	5.25 45.80 20.51 6.65 21.80 0.00	0.00 21.49 78.51 0.00 0.00 0.00	23.60 41.53 17.37 11.92 5.18 0.39 0.00	35.55 38.16 15.53 9.34 1.42 0.00 0.00	12.75 48.07 19.74 11.56 0.17 7.72 0.00	4.11 26.46 42.26 6.93 20.25 0.00 0.00	0.65 46.21 53.15 0.00 0.00 0.00	38.91 12.92 21.67 11.11 0.00 0.26
6 6 n n CA15> Over the past 3 years, how would you characterize your org Excellent Good Fair Adequate OR Poor Refused Dent Know CA15A> Projecting over the next 3 years, how would you character	11 anization' 15.28 39.60 27.28 10.25 7.06 0.47 0.07 561 ize your b	6 s busines 26.07 37.49 19.18 8.52 8.12 0.62 0.00 278 usiness o	s outlook 11.50 40.33 30.11 10.85 6.69 0.41 0.10 283 utlook?	43.48 26.94 12.99 9.42 7.17 0.00 0.00	43.00 40.67 7.93 3.09 1.50 3.81 0.00	5.25 45.80 20.51 6.65 21.80 0.00 0.00 34	0.00 21.49 78.51 0.00 0.00 0.00 0.00 3	23.60 41.53 17.37 11.92 5.18 0.39 0.00 96	35.55 38.16 15.53 9.34 1.42 0.00 0.00 93	12.75 48.07 19.74 11.56 0.17 7.72 0.00 43	4.11 26.46 42.26 6.93 20.25 0.00 0.00 34	0.65 46.21 53.15 0.00 0.00 0.00 0.00 10	38.91 12.92 21.67 11.11 0.00 0.26 102
6 6 n CA15> Over the past 3 years, how would you characterize your org Excellent Good Fair Adequate OR Poor Refused Don't Know n	11 anization': 15.28 39.60 27.28 10.25 7.06 0.47 0.07 561	6 s busines 26.07 37.49 19.18 8.52 8.12 0.62 0.00 278	\$ outlook 11.50 40.33 30.11 10.85 6.69 0.41 0.10 283	43.48 26.94 12.99 9.42 7.17 0.00	43.00 40.67 7.93 3.09 1.50 3.81 0.00	5.25 45.80 20.51 6.65 21.80 0.00	0.00 21.49 78.51 0.00 0.00 0.00	23.60 41.53 17.37 11.92 5.18 0.39 0.00	35.55 38.16 15.53 9.34 1.42 0.00 0.00	12.75 48.07 19.74 11.56 0.17 7.72 0.00	4.11 26.46 42.26 6.93 20.25 0.00 0.00	0.65 46.21 53.15 0.00 0.00 0.00	38.91 12.92 21.67 11.11 0.00 0.26
6 6 n n <ca15> Over the past 3 years, how would you characterize your org Excellent Good Fair Adequate Poor Refused Don't Know n n <ca15a> Projecting over the next 3 years, how would you character Excellent Good Fair</ca15a></ca15>	11 anization's 15.28 39.60 27.28 10.25 7.06 0.47 0.07 561 ize your b 19.28 59.39 11.71	6 s busines 26.07 37.49 19.18 8.52 8.12 0.62 0.000 278 usiness 0 30.82 42.38 13.54	s outlook: 11.50 40.33 30.11 10.85 6.69 0.41 0.10 283 utlook? 15.24 65.36 11.07	2 43.48 26.94 12.99 9.42 7.17 0.00 0.00 106 51.76 23.78	43.00 40.67 7.93 3.09 1.50 3.81 0.00 38 46.52 44.09 3.67	5.25 45.80 20.51 6.65 21.80 0.00 0.00 34 11.50 50.69 25.80	0.00 21.49 78.51 0.00 0.00 0.00 0.00 3 0.00 90.92 9.08	23.60 41.53 17.37 11.92 5.18 0.39 0.00 96 26.40 42.54 9.83	35.55 38.16 15.53 9.34 1.42 0.00 0.00 93 45.43 31.01 19.03	12.75 48.07 19.74 11.56 0.17 7.72 0.00 43 8.57 63.27	4.11 26.46 42.26 6.93 20.25 0.00 0.00 34 6.19 74.37 11.12	0.65 46.21 53.15 0.00 0.00 0.00 0.00 10 0.77 95.52 3.72	38.91 12.92 21.67 11.11 0.00 0.26 102 21.63 48.03 14.70
6 6 n n <ca15> Over the past 3 years, how would you characterize your org Excellent Good Fair Adequate OR Poor Refused Don't Know n n CA15A> Projecting over the next 3 years, how would you character Excellent Good Fair Adequate OR And Projecting over the next 3 years, how would you character Adequate OR Fair Adequate OR Poor</ca15>	11 anization' 15.28 39.60 27.28 10.25 7.06 0.47 0.07 561 19.28 59.39 11.71 3.75 1.59	6 s busines 26.07 37.49 19.18 8.52 0.62 0.00 278 usiness o 30.82 42.38 13.54 4.14 1.55	s outlook: 11.50 40.33 30.11 10.85 6.69 0.41 0.10 283 utlook? 15.24 65.36 11.07 3.61	7 43.48 26.94 12.99 9.42 7.17 0.00 0.00 106 51.76 23.78 15.67 2.97 5.20	43.00 40.67 7.93 3.09 1.50 3.81 0.00 38 46.52 44.09 3.67 0.97	5.25 45.80 20.51 6.65 21.80 0.00 0.00 34 11.50 50.69 25.80 0.00	0.00 21.49 78.51 0.00 0.00 0.00 0.00 0.00 90.92 90.92 9.08	23.60 41.53 17.37 11.92 5.18 0.39 0.00 96 26.40 42.54 9.83 5.71	35.55 38.16 15.53 9.34 1.42 0.00 0.00 93 45.43 31.01 19.03 3.40 0.65	12.75 48.07 19.74 11.56 0.17 7.72 0.00 43 8.57 63.27 12.19 6.66 1.14	4.11 26.46 42.26 6.93 20.25 0.00 0.00 34 6.19 74.37 11.12 6.82 0.00	0.65 46.21 53.15 0.00 0.00 0.00 70 0.77 95.52 3.72 0.00 0.00	38.91 12.92 21.67 11.11 0.00 0.26 102 21.63 48.03 14.70 5.43 3.80
6 6 6 7 CCA15> Over the past 3 years, how would you characterize your org Excellent Good Fariar Adequate OR Peor Refused Don't Know CCA15A> Projecting over the next 3 years, how would you character Excellent Good Fariar Adequate OR Adequate OR Adequate OR Adequate OR	11 anization' 15.28 39.60 27.28 10.25 7.06 0.47 0.07 561 19.28 19.28 11.71 3.75	6 s busines 26.07 37.49 19.18 8.52 0.62 0.00 278 usiness o 30.82 42.38 13.54 4.14	s outlook: 11.50 40.33 30.11 10.85 6.69 0.41 0.10 283 utlook? 15.24 65.36 11.07 3.611 1.60 0.03	7 43.48 26.94 12.99 9.42 7.17 0.00 0.00 106 51.76 23.78 15.67 2.97	43.00 40.67 7.93 3.09 1.50 3.81 0.00 38 46.52 44.09 3.67 0.97	5.25 45.80 20.51 6.65 21.80 0.00 0.00 34 11.50 50.69 25.80 5.80	0.00 21.49 78.51 0.00 0.00 0.00 3 0.00 90.92 9.08 0.00	23.60 41.53 17.37 11.92 5.18 0.39 0.00 96 26.40 42.54 9.83 5.71	35.55 38.16 15.53 9.34 1.42 0.00 0.00 93 45.43 31.01 19.03 3.40	12.75 48.07 19.74 11.56 0.17 7.72 0.00 43 8.57 63.27 12.19 6.66	4.11 26.46 42.26 6.93 20.25 0.00 0.00 34 6.19 74.37 11.12 6.82	0.65 46.21 53.15 0.00 0.00 0.00 0.00 10 0.77 95.52 3.72	38.91 12.92 21.67 11.11 0.00 0.26 102 21.63 48.03 14.70 5.43
6 6 6 7 CCA15> Over the past 3 years, how would you characterize your org Excellent Good Fair Adequate OR Poor Refused Don't Know n CCA15A> Projecting over the next 3 years, how would you character Excellent Good Don't ReaDgoing out of business Refused DONOT READgoing out of business Refused Don't Know	11 anization' 15.28 39.60 27.28 10.25 7.06 0.47 0.07 561 122 your b 19.28 15.59 0.05 0.05 0.05 0.05 0.05 0.05 0.05	6 s busines 26.07 26.07 37.49 19.18 8.52 8.12 0.62 0.00 278 usiness o 30.82 43.54 4.14 1.55 0.10 0.62 6.86	s outlook: 11.50 40.33 30.11 10.85 6.69 0.41 0.10 283 utlook? 15.24 65.36 11.07 3.61 1.60 0.03 0.41	7 43.48 26.94 12.99 9.42 7.17 0.00 0.00 706 51.76 23.78 15.67 2.97 5.20 0.39 0.00 0.23	43.00 40.67 7.93 3.09 1.50 3.81 0.00 38 46.52 44.09 0.97 0.00 0.00	5.25 45.80 20.51 6.65 21.80 0.00 0.00 34 11.50 50.69 25.80 0.00 0.00 0.00	0.00 21.49 78.51 0.00 0.00 0.00 0.00 3 0.00 90.92 9.98 0.00 0.00 0.00	23.60 41.53 17.37 11.92 5.18 0.39 0.00 96 26.40 42.54 9.83 5.71 0.70 0.00	35.55 38.16 15.53 9.34 1.42 0.00 0.00 93 45.43 31.01 19.03 3.40 0.65 0.23 0.00	12.75 48.07 19.74 11.56 0.17 7.72 0.00 43 8.57 63.27 12.19 6.66 1.14 0.00 7.72 0.43	4.11 26.46 42.26 6.93 20.25 0.00 0.00 34 6.19 74.37 11.12 6.82 0.00 0.00	0.65 46.21 53.15 0.00 0.00 0.00 10 0.77 95.52 3.72 0.00 0.00 0.00	38.91 12.92 21.67 11.11 0.00 0.26 702 21.63 48.03 14.70 5.43 3.80 0.00 0.00 6.41
6 6 n <ca15> Over the past 3 years, how would you characterize your org Excellent Good Fair Adequate OR Peror Refused Don't Know CA15A> Projecting over the next 3 years, how would you character Good Fair Adequate OR Refused Don't Know CA15A> Projecting over the next 3 years, how would you character Good Fair Adequate OR Poor DO NOT READgoing out of business Refused Don't Know CAM70> How many people are currently working at the facility, incil</ca15>	111 15.28 39.60 27.28 10.25 7.06 0.47 0.07 15.28 19.28	6 s busines 28.07 37.49 19.18 8.52 8.12 0.622 0.000 278 usiness 0 42.38 13.54 4.14 1.55 0.10 0.62 6.86 278 (1 till and	s outlook: 11.50 40.33 30.11 10.85 6.69 0.41 0.10 283 utlook? 15.24 65.36 11.07 3.61 1.60 0.03 0.41 2.68 283 part time	7 43.48 26.94 12.99 12.99 1.17 0.00 0.00 106 51.76 23.78 15.67 2.97 5.20 0.39 0.00 0.23	43.00 40.67 7.933 3.09 1.50 3.81 0.00 3.87 46.52 44.09 3.67 0.97 0.00 0.00 0.00 3.81	5.25 45.80 20.51 6.65 21.80 0.00 0.00 34 11.50 50.69 25.80 0.00 0.00 0.00 0.00	0.00 21.49 78.51 0.00 0.00 0.00 0.00 3 0.00 90.92 9.08 0.00 0.00 0.00 0.00	23.60 41.53 17.37 11.92 5.18 0.39 0.00 96 26.40 42.54 9.83 5.71 0.70 0.00 0.39 14.43	35.55 38.16 15.53 9.34 1.42 0.00 0.00 93 45.43 31.01 19.03 3.40 0.65 0.23 0.00 0.24	12.75 48.07 19.74 11.56 0.17 7.72 0.00 43 8.57 63.27 12.19 6.66 1.14 0.00 7.72 0.43	4.11 26.46 42.26 6.93 20.25 0.00 0.00 34 6.19 74.37 11.12 6.82 0.00 0.00 0.00	0.65 46.21 53.15 0.00 0.00 0.00 10 0.77 95.52 3.72 0.00 0.00 0.00 0.00	38.91 12.92 21.67 11.11 0.00 102 21.63 48.03 14.70 5.43 3.80 0.00 0.00 6.41 102
6 6 n n CCA15> Over the past 3 years, how would you characterize your org Excellent Good Fair Adequate OR Refused Don't Know Don't Know Adequate OR CCA15A> Projecting over the next 3 years, how would you character Excellent Good Fair Adequate OR For DO NOT READgoing out of business Refused Don't Know Refused DON'T READgoing out of Dusiness Refused DON'T READgoing out of DON'T READgoing out	11 anization* 15.28 39.60 27.28 10.25 7.06 0.47 0.07 561 11.71 12.75 1.59 0.05 0.47 3.77 561	6 s business 26.07 37.49 19.18 8.52 8.12 0.602 0.000 30.82 42.38 13.54 4.14 1.55 0.10 0.62 6.866 6.866 278	s outlook: 11.50 40.33 30.11 10.85 6.69 0.41 0.10 283 utlook? 15.24 65.36 11.07 3.61 1.60 0.03 0.41	7 43.48 26.94 12.99 9.42 7.17 0.00 0.00 706 51.76 23.78 15.67 2.97 5.20 0.39 0.00 0.23	43.00 40.67 7.933 3.09 1.50 3.81 0.00 3.87 46.52 44.09 3.67 0.97 0.00 0.00 0.00 3.81	5.25 45.80 20.51 6.65 21.80 0.00 0.00 34 11.50 50.69 25.80 0.00 0.00 0.00	0.00 21.49 78.51 0.00 0.00 0.00 0.00 3 0.00 90.92 9.98 0.00 0.00 0.00	23.60 41.53 17.37 11.92 5.18 0.39 0.00 96 26.40 42.54 9.83 5.71 0.70 0.00	35.55 38.16 15.53 9.34 1.42 0.00 0.00 93 45.43 31.01 19.03 3.40 0.65 0.23 0.00	12.75 48.07 19.74 11.56 0.17 7.72 0.00 43 8.57 63.27 12.19 6.66 1.14 0.00 7.72 0.43	4.11 26.46 42.26 6.93 20.25 0.00 0.00 34 6.19 74.37 11.12 6.82 0.00 0.00	0.65 46.21 53.15 0.00 0.00 0.00 10 0.77 95.52 3.72 0.00 0.00 0.00	38.91 12.92 21.67 11.11 0.00 0.26 702 21.63 48.03 14.70 5.43 3.80 0.00 0.00 6.41

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small (%)
<fm080> Since January 2009 has the number of people working at the Yes No</fm080>	30.21 60.35	37.07 59.67		29.17 67.57		37.09 62.91	0.00 78.51	45.81 52.95	29.60	17.29 72.85	34.95 65.05	20.30	33.10 62.61
Refused Don't Know	0.43	0.47	0.41	0.00	3.81	0.00	0.00	0.00	0.00	7.72	0.00	0.00	0.00
r <fm081> Would these changes have increased or decreased number</fm081>	561	278	283	106	38	34	3	96	93	43	34	10	102
Increased number of employees Decreased number of employees	46.51 50.87	60.82	39.82 56.34	18.67 81.33	83.12 16.88	94.88	0.00	57.60 42.40	60.08 39.92	57.42 42.58	71.34 28.66	0.00	44.22 47.39
Don't Know	2.62 152	0.00 78	3.84 74	0.00	0.00 10	0.00	0.00	0.00 28	0.00 27	0.00 9	0.00	0.00	8.39 27
<fm100> In 2008 approximately how many people were working at the 1 to 10</fm100>	his facility 58.52	, includin 60.75	g both ful 57.07	70.65	time emp 60.59	loyees? 76.59	0.00	48.82	31.12	25.94	94.89	0.00	52.33
11 to 50 51 to 100	19.13 4.84	19.95 2.73	18.59 6.21	18.83 0.00	0.00 13.99	22.57 0.00	0.00	27.08 0.00	3.66 34.16	0.00 3.31	4.74 0.00	0.00	30.56 0.00
101 to 500 Don't Know	0.56 16.96	0.00 16.57	0.93 17.21	0.00 10.51	0.00 25.42	0.00 0.84	0.00	0.00 24.10	5.23 25.83	0.00 70.75	0.00	0.00	0.00 17.11
n <pc010> Thinking back to 2008, were any changes made to the facility</pc010>								15 e than 10		6	6	0	16
Yes No	9.17 65.87	9.32 63.27	66.79	12.85 69.39	10.05 72.94	13.57 85.69	0.00 30.57	6.02 49.74	14.86 62.04	11.55 75.77	14.36 74.08	0.00 67.56	13.31 64.31
Refused Don't Know	0.04 24.92	0.14 27.28		0.56 17.20		0.00	0.00 69.43	0.00 44.24	23.10	0.00 12.68	0.00 11.56	0.00 32.44	0.00 22.39
n <pc020> Would these changes have increased or decreased consum</pc020>		278	283	106	38	34	3	96	93	43	34	10	102
Increased Decreased	28.33 69.02 2.65	30.87 69.13 0.00	27.42 68.97 3.60	93.53 0.00	1.79 98.21 0.00	82.99 17.01 0.00	0.00 0.00 0.00	21.18 78.82 0.00	13.73 86.27 0.00	44.21 2.69 53.10	27.38 72.62 0.00	0.00	30.22 69.78 0.00
Don't Know n <v1> Now I would like to find out, did you use a contractor/vendor to</v1>	48	23	25	9	3	4	0	0.00 7 2012 Prog	10	53.10	0.00	0.00	0.00
Yes No	82.26 16.55	79.45 19.49	83.24 15.52	85.64 13.99	85.95 13.04	76.18 19.91	100.00	71.91 27.86	83.17 15.01	84.30 14.87	85.40 11.13	87.00 13.00	79.26 19.19
Don't Know	1.19	1.06	1.24	0.37	1.01	3.91	0.00	0.23	1.81	0.83	3.47	0.00	1.55
<v2> How did you come into contact with the contractor/vendor? They contacted you</v2>	74.80	81.31		73.26	88.19	78.22	69.43	88.96	72.63	74.23	80.93	47.11	93.81
You had worked with them before	5.56	6.79	5.15	16.55	1.50	11.80	0.00	0.00	15.64	13.71	11.68	0.00	3.26
4 Other	0.05	0.15 7.41	0.01	0.00	1.12	0.00	0.00	0.00	0.00	0.20 5.73	0.00	0.00	0.00
Don't Know	0.84 426	0.76	0.87	0.00	0.83	0.00	9.08	0.00	3.34 72	5.64 32	0.00	0.47	0.00
<v2a> In relation to this project, did the vendor/contractor approach</v2a>	100.00			ghting? 0.00	100.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100.00
n <v2b> On a scale of 0 - 10, with 0 being very unlikely and 10 being V</v2b>	9	3	6	t your or	1	1	1	0	0	1	1	3 actor/ven	dor Not
contacted you? 1 Not at All Likely	13.72	15.12	13.19	0.29	0.70	10.06	0.00	34.86	11.95	0.00	0.00	0.00	24.67
2 3	7.71 8.97	9.82 10.22	6.92 8.50	16.74 19.40	21.15 6.18	10.20 18.00	0.00	2.52 3.97	18.10 6.88	10.75 1.13	5.37 10.26	0.00 11.77	7.35 7.68
5	1.56 20.69	1.38 16.98		1.08	0.00 4.30	5.88 0.00	0.00 100.00	0.20 18.83	4.20 11.40	0.00 14.47	5.25 0.00	0.00 87.23	0.94 0.75
6 7	2.29 1.10	1.41 0.00	2.62 1.51	5.21 0.00	0.36 0.00	0.00	0.00	0.31	0.78 0.00	0.00 0.48	0.00 5.70	0.00	5.31 1.60
8 9	0.52 0.68	1.22 1.64	0.25 0.32	3.93 6.37	0.00	1.11 0.67	0.00	0.22	0.00 1.35	2.95 0.00	0.00 1.24	0.00	0.22
10 VERY LIKELY Zero Not at All Likely	2.73 39.91	2.85 39.36		0.46 33.29	5.08 62.23	10.43 43.66	0.00	0.29 38.81	13.37 31.97	0.97 69.25	1.36 70.82	0.00	1.22 49.91
Don't Know	0.12 344	0.00 172	0.16 172	0.00 62	0.00 25	0.00 22	0.00	0.00 61	0.00 55	0.00 23	0.00 21	0.00	0.34 68
<v3> Did the contractor/vendor tell you about or recommend the pro Yes No</v3>	gram? 66.75 32.25	70.23 28.35	65.58 33.56	62.56	72.42 27.58	52.18 45.61	78.51 21.49	83.32 16.68	70.78 24.95	65.72 33.51	70.50 28.03	47.58 52.42	79.30 20.33
Don't Know	1.00 426	26.35 1.42 212		33.62	0.00	2.20	0.00	0.00	4.27 72	0.78	1.46	0.00	0.37 75
	u organiza 31.60		plans to		nstall ligh		ment?	55		02	20		
								0.42	16.70	22 17	4.00		
No	68.11	81.00	63.50	20.15 77.66	2.14 97.86	13.99 85.37	0.00	91.58 0.00	16.70 83.30	22.17 77.83	4.80 93.78	87.35 12.65	76.29
No Don't Know n	68.11 0.29 286	81.00 0.61 143	63.50 0.17 143	20.15 77.66 2.20 51	97.86 0.00 21	85.37 0.65 17	0.00 0.00 2	91.58 0.00 52	83.30 0.00 44	77.83 0.00 21	93.78 1.42 17	12.65 0.00 5	76.29 0.00 56
No Don't Know n -V4A> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very commended it?	68.11 0.29 286 ery likely.	81.00 0.61 143 How likel	63.50 0.17 143 y is it that	20.15 77.66 2.20 51 your org	97.86 0.00 21 panization	85.37 0.65 17 would ha	0.00 0.00 2 ve retrofit	91.58 0.00 52 ted lightin	83.30 0.00 44 g equipr	77.83 0.00 21 nent had	93.78 1.42 17 the contra	12.65 0.00 5 ctor/veno	76.29 0.00 56 or Not
No. Don't Know n V44A> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very unlikely and 11 being Verecommended it? 1 Not at All Likely 2	68.11 0.29 286 ery likely. 9.54 9.42	81.00 0.61 143 How likel 3.31 7.69	63.50 0.17 143 y is it that 11.77 10.04	20.15 77.66 2.20 51 your org 0.00 20.09	97.86 0.00 21 ganization 8.14 10.07	85.37 0.65 17 would ha 1.48 0.73	0.00 0.00 2 eve retrofit 0.00 0.00	91.58 0.00 52 ted lightin 4.86 3.49	83.30 0.00 44 g equipr 1.81 7.21	77.83 0.00 21 nent had 3.38 10.21	93.78 1.42 17 the contra 2.81 30.62	12.65 0.00 5 ctor/venc 0.00 0.00	76.29 0.00 56 or Not 24.86 10.85
No Dornt Know n Not a scale of 0 - 10, with 0 being very unlikely and 10 being Verecommended it? 1 Not at All Likely 2 3 4	68.11 0.29 286 ery likely. 9.54 9.42 9.11 3.59	81.00 0.61 143 How likel 3.31 7.69 10.98 2.36	63.50 0.17 143 y is it that 11.77 10.04 8.45 4.03	20.15 77.66 2.20 51 t your org 0.00 20.09 18.33 1.25	97.86 0.00 21 anization 8.14 10.07 0.00 8.61	85.37 0.65 17 would ha 1.48 0.73 0.00 6.17	0.00 0.00 2 vve retrofit 0.00 0.00 0.00 0.00	91.58 0.00 52 tted lightin 4.86 3.49 16.21 0.08	83.30 0.00 44 g equipr 1.81 7.21 0.65 13.76	77.83 0.00 21 nent had 3.38 10.21 2.84 1.93	93.78 1.42 17 the contra 2.81 30.62 0.16 12.57	12.65 0.00 5 ctor/venc 0.00 0.00 11.65 0.00	76.29 0.00 56 or Not 24.86 10.85 11.90
No Don't Know n 44 On a scale of 0 - 10, with 0 being very unlikely and 10 being Verecommended it? 1 Not at All Likely 2 3 4 5 6	68.11 0.29 286 ery likely. 9.54 9.42 9.11 3.59 23.45	81.00 0.61 143 How likel 3.31 7.69 10.98 2.36 21.83 1.52	63.50 0.17 143 y is it that 11.77 10.04 8.45 4.03 24.03 1.17	20.15 77.66 2.20 51 your org 0.00 20.09 18.33 1.25 16.28	97.86 0.00 21 janization 8.14 10.07 0.00 8.61 1.50 0.00	85.37 0.65 17 would ha 1.48 0.73 0.00 6.17 5.54 6.78	0.00 0.00 2 ve retrofit 0.00 0.00 0.00 0.00 88.44 0.00	91.58 0.00 52 ted lightin 4.86 3.49 16.21 0.08 24.38 0.33	83.30 0.00 44 g equipr 1.81 7.21 0.65 13.76 5.12 0.80	77.83 0.00 21 nent had 3.38 10.21 2.84 1.93 13.56 0.00	93.78 1.42 17 the contra 2.81 30.62 0.16 12.57 5.33 1.96	12.65 0.00 5 ctor/venc 0.00 0.00 11.65 0.00 86.37 0.00	76.29 0.00 56 or Not 24.86 10.85 11.90 1.35 0.83 1.87
No Don't Know n a scale of 0 - 10, with 0 being very unlikely and 10 being Verecommended it? 1 Not at All Likely 2 3 4 5 6 7 8	68.11 0.29 286 ery likely. 9.54 9.42 9.11 3.59 23.45 1.26 1.39	81.00 0.61 143 How likel 3.31 7.69 10.98 2.36 21.83 1.52 1.35 0.58	63.50 0.17 143 y is it that 11.77 10.04 8.45 4.03 24.03 1.17 1.40 1.17	20.15 77.66 2.20 51 2 your org 0.00 20.09 18.33 1.25 16.28 1.93 5.02	97.86 0.00 21 panization 8.14 10.07 0.00 8.61 1.50 0.00 0.76 0.43	85.37 0.65 17 would ha 1.48 0.73 0.00 6.17 5.54 6.78 0.00 2.30	0.00 0.00 2 ve retrofit 0.00 0.00 0.00 0.00 88.44 0.00 0.00	91.58 0.00 52 ted lightin 4.86 3.49 16.21 0.08 24.38 0.33 0.13	83.30 0.00 44 g equipr 1.81 7.21 0.65 13.76 5.12 0.80 3.80 0.00	77.83 0.00 21 nent had 3.38 10.21 2.84 1.93 13.56 0.00 2.88 3.01	93.78 1.42 17 the contra 2.81 30.62 0.16 12.57 5.33 1.96 0.00 1.42	12.65 0.00 5 0.00 0.00 0.00 11.65 0.00 86.37 0.00 1.00 0.00	76.29 0.00 56 or Not 24.86 10.85 11.90 1.35 0.83 1.87 1.12
No Continue No Con	68.11 0.29 286 ery likely. 9.54 9.42 9.11 3.59 23.45 1.26 1.39 1.02 0.366 3.10	81.00 0.61 143 How likel 3.31 7.69 10.98 2.36 21.83 1.52 1.35 0.58 0.00 0.95	63.50 0.17 143 y is it that 11.77 10.04 8.45 4.03 24.03 1.17 1.40 1.17 0.49	20.15 77.66 2.20 51 your org 0.00 20.09 18.33 1.25 16.28 1.93 5.02 0.87 0.00	97.86 0.00 21 anization 8.14 10.07 0.00 8.61 1.50 0.00 0.76 0.43 0.00 0.00	85.37 0.65 17 would ha 1.48 0.73 0.00 6.17 5.54 6.78 0.00 2.30 0.00	0.00 0.00 2 ve retrofit 0.00 0.00 0.00 0.00 88.44 0.00 0.00 0.0	91.58 0.00 52 ted lightin 4.86 3.49 16.21 0.08 24.38 0.33 0.13 0.00 0.00	83.30 0.00 44 g equipr 1.81 7.21 0.65 13.76 5.12 0.80 0.00 0.00 5.24	77.83 0.00 21 nent had 3.38 10.21 2.84 1.93 13.56 0.00 2.88 3.01 7.98 0.00	93.78 1.42 17 the contra 2.81 30.62 0.16 12.57 5.33 1.96 0.00 1.42 0.00 0.73	12.65 0.00 5 ctor/venc 0.00 0.00 11.65 0.00 86.37 0.00 1.00 0.00 0.00 0.00	76.29 0.00 56 lor Not 24.86 10.85 11.90 1.35 0.83 1.87 1.12 1.89 0.12
No o Don't Know n V44A> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very unlikely and 11 being Very unlikely and 11 being Very unlikely and 13 being Very 1 Not at All Likely 2 3 4 5 6 7 7 8	68.11 0.29 286 ery likely. 9.54 9.42 9.11 3.59 23.45 1.26 1.39	81.00 0.61 143 How likel 3.31 7.69 10.98 2.36 21.83 1.52 1.35 0.58	63.50 0.17 143 y is it that 11.77 10.04 8.45 4.03 24.03 1.17 1.40 1.17 0.49 3.87	20.15 77.66 2.20 51 2 your org 0.00 20.09 18.33 1.25 16.28 1.93 5.02 0.87	97.86 0.00 21 anization 8.14 10.07 0.00 8.61 1.50 0.00 0.76 0.43 0.00 0.00	85.37 0.65 17 would ha 1.48 0.73 0.00 6.17 5.54 6.78 0.00 2.30 0.00	0.00 0.00 2 vve retrofit 0.00 0.00 0.00 0.00 88.44 0.00 0.00 0.0	91.58 0.00 52 ted lightin 4.86 3.49 16.21 0.08 24.38 0.33 0.13 0.00 0.00	83.30 0.00 44 g equipr 1.81 7.21 0.65 13.76 5.12 0.80 3.80 0.00 0.00	77.83 0.00 21 nent had 3.38 10.21 2.84 1.93 13.56 0.00 2.88 3.01 7.98	93.78 1.42 17 the contra 2.81 30.62 0.16 12.57 5.33 1.96 0.00 1.42 0.00	12.65 0.00 5 0.00 0.00 0.00 11.65 0.00 86.37 0.00 1.00 0.00	76.29 0.00 56 or Not 24.86 10.85 11.90 1.35 0.83 1.87 1.12 1.89
No	68.11 0.29 286 9.54 9.42 9.11 3.59 23.45 1.26 0.36 3.10 3.700 0.77	81.00 0.61 143 How likel 3.31 7.69 2.36 21.83 1.52 1.35 0.58 0.00 0.95 49.43 0.00 143	63.50 0.17 743 y is it that 11.77 10.04 8.45 4.03 24.03 1.17 0.49 3.87 32.54 1.04	20.15 77.66 2.20 2.11 your org 0.00 20.09 18.33 1.25 16.28 1.93 5.02 0.87 0.00 0.13 36.08 0.00 51	97.86 0.00 21 anization 8.14 10.07 0.00 8.61 1.50 0.00 0.76 0.43 0.00 70.47 0.00	85.37 0.65 17 would ha 1.48 0.73 0.000 6.17 5.54 6.78 0.00 2.30 0.00 0.00 0.00 76.99	0.00 0.00 2 ve retrofit 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	91.58 0.00 52 ted lightin 4.86 3.49 16.21 0.08 24.38 0.33 0.13 0.00 0.00 0.00 5.52	83.30 0.00 44 g equipr 1.81 7.21 0.65 13.76 5.12 0.80 3.80 0.00 0.00 0.00 5.24 53.62 8.00 44	77.83 0.00 27 nent had 3.38 10.21 2.84 1.93 13.56 0.00 2.88 3.01 7.98 0.00 54.22 0.00 27	93.78 1.42 17 the contra 2.81 30.62 0.16 12.57 5.33 1.96 0.00 1.42 0.00 0.73 44.40 0.00 17	12.65 0.00 5 ctor/venc 0.00 11.65 0.00 1.00 0.00 1.00 0.	76.29 0.00 56 or Not 24.86 10.85 11.90 1.35 0.83 1.87 1.12 1.89 0.12 6.42 38.79 0.00
No Dorn't Know n V4A> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very unlikely and 10 being Very unlikely and 10 being Very erecommended it? 1 Not at All Likely 2 3 4 5 6 6 7 7 8 8 9 10 VERY LIKELY 2 aro Not at All Likely Dorn't Know	68.11 0.29 286 29.54 9.54 9.42 9.41 3.59 23.45 1.26 0.36 3.10 37.00 0.777 286 ery likely	81.00 0.61 143 How liket 3.331 7.69 10.98 2.36 21.83 1.52 1.35 0.58 0.00 0.95 49.43 0.00 143 . How like	63.50 0.17 743 y is it thai 11.77 10.04 8.45 4.03 24.03 1.17 0.49 3.87 32.54 1.04 1.04 1.04 1.04 1.04 1.04 1.04 1.0	20.15 77.66 2.20 2.11 your org 0.00 20.09 18.33 1.25 16.28 1.93 5.02 0.87 0.00 0.13 36.08 0.00 51	97.86 0.00 21 anization 8.14 10.07 0.00 8.61 1.50 0.00 0.76 0.43 0.00 70.47 0.00 27 ganization	85.37 0.65 17 would ha 1.48 0.73 0.00 6.17 5.54 6.78 0.00 2.30 0.00 0.00 76.99 0.00 177 1 would ha	0.00 0.00 2 ve retrofile 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	91.58 0.00 52 ted lighting 4.86 3.49 16.21 0.08 24.38 0.33 0.13 0.00 0.00 50.52 0.00 52 ed lighting	83.30 0.00 44 g equipr 1.81 7.21 0.65 13.76 5.12 0.80 3.80 0.00 0.00 0.00 5.24 53.62 8.00 44	77.83 0.00 27 nent had 3.38 10.21 2.84 1.93 13.56 0.00 2.88 3.01 7.98 0.00 54.22 0.00 27	93.78 1.42 17 the contra 2.81 30.62 0.16 12.57 5.33 1.96 0.00 1.42 0.00 0.73 44.40 0.00 1.77 he same k	12.65 0.00 5 ctor/venc 0.00 11.65 0.00 1.00 0.00 1.00 0.	76.29 0.00 56 Or Not 24.86 10.85 11.90 1.35 0.83 1.87 1.12 1.89 0.12 6.42 38.79 0.00 56 ficiency
No Don't Know n	68.11 0.29 286 ery likely. 9.54 9.11 3.59 23.45 1.02 0.36 3.10 37.00 0.777 286 ery likely	81.00 0.61 1433 How likel 3.31 7.69 10.98 2.36 21.83 1.52 1.35 0.00 0.95 49.43 0.00 143 . How like 2.85	63.50 0.17 143 y is it that 11.77 10.04 8.45 4.03 24.03 1.17 0.49 3.87 32.54 1.04 1.17 1.18 19 is it that	20.15 77.66 2.20 51 your org 0.00 20.09 18.33 1.25 16.28 1.93 5.02 0.87 0.00 0.13 36.08 0.00 0.10 19.78 19.26	97.86 0.00 21 anization 8.14 10.07 0.00 8.61 1.50 0.00 0.76 0.00 27 ganization 15.67 9.25 31.77	85.37 0.65 177 would ha 1.48 0.73 0.00 6.17 5.54 6.78 0.00 0.00 0.00 76.99 0.00 77.99 0.00 17 1 would ha	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	91.58 0.00 52 ted lightin 4.86 3.49 16.21 0.08 24.38 0.33 0.13 0.00 0.00 0.00 5.52 ed lighting 1.70 10.88	83.30 0.00 44 g equipr 1.81 7.21 0.65 13.76 5.12 0.80 3.80 0.00 0.00 5.24 53.62 8.00 44 equipr 1.81 1	77.83 0.00 21 nent had 3.38 10.21 2.84 1.93 13.56 0.00 2.88 0.00 2.88 0.00 2.7 ent with t 4.52 8.82 2.84	93.78 1.42 177 the contra 2.81 30.62 0.16 12.57 5.33 1.96 0.00 0.73 1.42 0.00 1.77 he same k	12.65 0.00 5 ctor/venc 0.00 0.00 11.65 0.00 86.37 0.00 1.00 0.00 0.00 0.00 5 evel of eft	76.29 0.00 56 10 Not 24.86 10.85 11.90 1.35 0.83 1.87 1.12 6.42 38.79 0.00 56 Ficiency 13.52 13.50 5.99
No Don't Know n Port Know n Don't Know n No No a scale of 0 - 10, with 0 being very unlikely and 10 being Very unlikely and 10 being Very unlikely and 10 being Very ecommended it? 1 Not at All Likely 2 3 4 4 5 6 6 7 7 8 9 10 VERY LIKELY Don't Know n Not at All Likely Don't Know n Not at All Likely 1 Not at All Likely 1 Not at All Likely 1 Not at All Likely 2 3 4 4 5 5	68.11 0.29 2866 ery likely. 9.54 9.42 9.11 3.599 23.45 1.02 0.36 3.700 0.777 2866 ery likely 5.52 12.27 6.25 7.84	81.00 0.61 1433 How likel 3.31 7.69 10.98 2.183 1.52 0.00 0.95 49.43 0.00 1433 How likel 13.54 6.633	63.50 0.17 743 y is it that 11.77 10.04 8.45 4.03 24.03 1.17 0.49 1.17 0.49 1.17 0.49 1.19 1.19 1.19 1.10 1.11 1.10 1.11 1.11	20.15 77.66 2.20 0.00 20.09 18.33 1.25 16.28 1.93 5.02 0.87 0.00 0.13 36.088 0.00 19.78 19.26 19	97.86 0.00 21 anization 8.14 10.07 0.00 8.61 1.50 0.00 0.76 0.00 27 ganization 15.67 9.25 31.77	85.37 0.65 177 would ha 0.73 0.00 6.17 5.54 6.78 0.00 2.30 0.00 76.99 0.00 77 1 would ha 0.00 0.0	0.00 0.00 2 ve retrofit 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	91.58 0.00 52 ted lightin 4.86 3.49 16.21 0.08 24.38 0.33 0.13 0.00 0.00 0.00 50.52 ed lighting 1.70 10.88	83.30 0.00 44 g equipr 1.81 7.21 0.65 13.76 5.12 0.80 3.80 0.00 0.00 5.24 53.62 8.00 44 equipm 1.81 1	77.83 0.00 21 nent had 3.38 10.21 2.84 1.93 13.56 0.00 54.22 0.00 54.22 0.00 27 ent with t 4.52 8.82 2.84 2.84 2.84 16.57	93.78 1.42 17 the contra 2.81 30.62 0.16 12.57 5.33 1.96 0.00 0.73 44.40 0.00 17 he same k 0.00 33.46 2.21 12.47	12.65 0.00 5 cctor/venc 0.00 0.00 11.65 0.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	76.29 0.00 56 or Not 24.86 10.85 11.90 1.35 0.83 1.87 1.12 6.42 38.79 0.00 56 ficiency 13.52 13.00 5,99 0.00 6.02
No Don't Know n Av4A> On a scale of 0 - 10, with 0 being very unlikely and 10 being Verecommended it? 1 Not at All Likely 2 3 4 4 5 6 7 7 10 VERY LIKELY Zero Not at All Likely Don't Know n Av4B> On a scale of 0 - 10, with 0 being very unlikely and 10 being Ver	68.11 0.29 286 ery likely. 9.54 9.42 9.11 3.59 23.45 1.26 0.36 3.10 37.00 0.77 286 (ery likely) 5.52 12.27 6.25 4.29 7.844 1.02	81.00 0.61 143 3.31 From the likeling to the l	63.50 0.17 743 y is it that 11.77 10.04 8.45 4.03 24.03 1.17 0.49 3.2.54 1.04 1.140 1.189 3.64 3.96 8.48 8.48 0.16 0.99	20.15 77.66 2.20 0.00 20.09 18.33 1.25 16.28 1.93 0.00 0.00 0.00 0.00 19.78 19.26 14.08 14.08 14.08 14.08 14.08 14.08	97.86 0.00 21 anization 8.14 10.07 0.00 8.61 1.50 0.00 0.00 70.47 0.00 27 ganization 15.67 9.25 31.77 1.12 4.09 0.00 0.00	85.37 0.65 177 would ha 1.48 0.73 0.00 6.17 5.54 6.78 0.00 2.30 0.00 76.99 0.00 77 1 would h	0.00 0.00 2 ve retrofit 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	91.58 0.00 52 ted lightin 4.86 3.49 16.21 0.08 24.38 0.03 0.13 0.00 0.00 0.00 50.52 ed lighting 1.70 10.88 11.14 0.00 12.19 11.93 14.91	83.30 0.00 44 47 48 49 49 49 49 49 40 40 40 40 40 40 40 40 40 40	77.83 0.00 21 nent had 3.38 10.21 2.84 1.93 13.56 0.00 54.22 0.00 54.22 0.00 21 ent with t 4.52 8.82 2.84 2.88 16.57 0.00 0.00	93.78 1.42 17 1the contra 2.81 30.62 0.16 12.57 5.33 1.96 0.00 0.73 44.40 0.00 33.46 2.21 12.47 0.00 0.00	12.65 0.00 5 ctor/venc 0.00 0.00 11.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	76.29 0.000 1.000 24.866 10.855 11.900 1.355 1.877 1.121 6.42 6.42 13.000 566 13.525 13.000 6.020 1.121 1.12
No Don't Know n V4A> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very erecommended it? 1 Not at All Likely 2 3 4 5 6 7 8 9 10 VERY LIKELY Zero Not at All Likely Don't Know n 4B On a scale of 0 - 10, with 0 being very unlikely and 10 being V	68.11 0.29 286 ery likely. 9.54 9.42 9.11 3.59 1.26 1.39 1.02 0.36 3.10 37.00 0.777 286 6.25 4.29 7.84 1.88 1.02 2.83 0.44	81.00 0.61 143 3.31 How likel 3.31 7.69 10.98 2.36 2.36 1.52 1.35 0.00 0.95 49.43 0.00 1.31 How likel 2.85 6.69 6.69 1.10 0.91	63.50 0.17 143 y is it that 11.77 10.04 8.455 4.03 24.03 1.17 1.40 1.17 0.49 3.87 1.04 1.189 3.64 1.189 3.64 0.166 0.196 8.48 0.196 0.195 0.555	20.15126 77.8686 77.8686 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.00000 9.00000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.000	97.86 0.00 21 anization 8.14 10.07 0.00 8.61 1.50 0.00 0.00 0.00 0.00 70.47 0.00 21 ganization 15.67 9.25 31.77 1.12 4.09 0.00 0.00 0.00 0.00 0.00 0.00 0.00	85.37 0.65 177 would ha 1.48 0.73 0.00 6.17 5.54 6.78 0.00 0.00 0.00 0.00 0.00 177 1 would ha 1 2.30 0.00 0	0.00 0.00 2 ve retrofit 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	91.58 0.00 52 ted lightin 4.86 3.49 16.21 0.08 24.38 0.13 0.00 0.00 0.00 50.52 0.00 17.0 10.88 11.14 0.00 12.19 11.93 14.0 10.00 10.00 11.93 10.00 10.0	83.30 0.00 44 9 equipr 7.21 0.65 13.76 5.12 0.80 3.80 0.00 0.00 44 44 44 44 44 44 43 1.81	77.83 0.00 271 nent had 3.38 10.21 2.84 1.93 13.56 0.00 2.88 0.00 54.22 0.00 27 ent with t 4.52 8.82 2.84 16.57 0.00 0.00 1.39	93.78 1.42 17 1the contra 2.81 30.62 0.16 12.57 5.33 1.96 0.00 0.73 44.40 0.00 17 he same is 0.00 33.46 2.21 12.47 0.00 0.00 3.39 0.00 0.00 0.00 0.00 0.00	12.65 0.00 5 ctor/venc 0.00 0.00 11.65 0.00 0.00 1.00 0.00 0.00 0.00 0.00 0.0	76.29 0.000 10.85 566 566 10.85 11.900 11.900 1.355 1.87 1.122 1.890 0.121 1.890 0.000 0.000 1.355 560 0.000 0.000 1.3500 0.00
No. Don't Know No. VV4A> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very 1 Not at All Likely 2 3 4 4 5 6 7 7 8 9 10 VERY LIKELY Zero Not at All Likely Don't Know nn VV4B> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very If the contractor/vendor had Not recommended to do so? 1 Not at All Likely 3 4 5 6 7 7 8 8 9 10 VERY LIKELY Zero Not at All Likely Don't Know nn VV4B> On a scale of 0 - 10, with 0 being very unlikely and 10 being Very 1 Not at All Likely 3 4 5 6 7 7	68.11 0.29 286 Dry likely. 9.54 9.42 9.41 3.59 23.45 1.26 0.36 0.36 0.36 0.77 286 (ery likely. 5.52 4.29 7.84 1.88 1.82 1.82	81.00 0.61 143 3.31 7.69 1.08 2.36 21.83 1.52 1.351 0.58 0.00 0.95 143 1.00 143 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	63.50 0.17 143 11.77 10.04 11.77 10.04 10.03 10.04 10.03 11.77 10.04 10.03	20.15 77.66 2.20 57.66 2.20 0.00 20.09 18.33 1.25 16.28 1.93 5.02 0.87 0.00 0.13 36.08 0.00 0.13 36.08 0.10 0.10 0.00 0.00 0.00 0.00 0.00 0	97.86 0.00 21 anization 8.14 8.14 1.007 0.00 8.61 1.50 0.00 0.76 0.43 0.00 70.47 0.00 27 ganization 15.67 1.12 4.09 0.00 0.00 0.00 1.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	85.37 0.65 177 would ha 1.48 0.73 0.000 6.17 5.54 6.78 0.000 0.000 7.000 7.000 7.000 7.000 177 1 would ha	0.00 0.00 2 ve retrofit 0.00 0.00 0.00 0.00 0.00 0.00 1.156 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	91.58 0.00 52 ted lightin 4.86 3.49 16.21 0.08 24.38 0.33 0.13 0.00 0.00 0.00 50.52 0.00 50.52 1.70 10.88 11.14 0.00 12.19 11.93 14.91	83.30 0.00 44 47 1.81 7.21 0.65 5.12 0.80 0.00 0.00 0.00 0.00 0.00 1.81 1.206 4.30 4.41 equipm 1.81 1.206 4.30 1.706 4.41 1.81 1.816 1.81	77.83 0.00 27 nent had 3.38 10.21 2.84 1.93 13.56 0.00 2.88 3.01 7.98 0.00 54.22 0.00 27 ent with t 4.52 8.82 2.84 2.88 16.57 0.00 0.00 1.39	93.78 1.42 17 1the contra 2.81 30.62 0.16 12.57 5.33 1.96 0.00 0.00 1.42 0.00 0.00 3.346 2.21 12.47 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	12.65 0.00 5 5 cctor/venc 0.00 0.00 11.65 0.00 1.00 0.00 1.00 0.00 0.00 0.00 0.0	76.29 0.000 566 567 568 10.855 11.900 11.355 11.900 11.355 11.900 11.355 11.900 11.355 11.900 11.355 11.900 11.355 11.900 11.355 11.900 11.355 11.900

	ALL	.ED Lamp(s)(%)	LED Reflector(s)(%)	-ED Lamp(s) Office - Small(%)	.ED Lamp(s) Restaurant - Fast ood(%)	LED Lamp(s) Restaurant - Sit Down(%)	.ED Lamp(s) tetail - Large(%)	.ED Lamp(s) tetail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	.ED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<v40> On a scale of 0 - 10, with 0 being very unlikely and 10 being Veinstall? Was it</v40>		How impo		1	t from the			rked with				quipment	
2 3	0.20 2.29	0.03 2.55	0.26 2.20	0.00	0.00	0.00	0.00	0.08 5.98	0.00 8.21	0.00 5.38	0.00	0.00	0.59
4 5	17.40 5.18	8.61 9.53	20.55	0.00	3.84	0.00	88.44	2.56	0.00	0.00	0.00	78.38	2.13
6	2.16	1.36	2.44	1.91	6.59	0.00	0.00	0.00	6.70	8.72	0.00	0.00	2.47
7 8	6.53 12.94	3.26 9.94	7.70 14.02	1.71 22.41	4.61 17.28	5.38 2.96	0.00	3.63 4.48	1.44 25.82	11.69 12.68	5.63 4.39	7.99 0.00	9.45 21.27
9 10 Extremely Important	13.60 37.28	22.47 37.64	10.42 37.15	12.23 55.73	32.52 34.09	0.65 70.97	0.00 11.56	36.74 22.21	10.70 45.90	10.99 40.01	7.96 67.76	1.00	16.27 39.64
Zero Not at All Important Don't Know	0.72 1.70	1.93 2.69	0.29 1.35	1.65	0.78	6.78	0.00	1.23 4.97	0.00	0.00 2.35	1.96 0.00	0.00	0.12 2.52
n <ap9> How did you FIRST learn about the Utility's program?</ap9>	286	143	143	51	21	17	2	52	44	21	17	5	56
Bill insert	6.48	8.40		15.72	0.48	16.94	0.00	3.14	4.85	11.36	29.50	0.00	3.52
Program literature Account representative	7.02 8.13	8.53 3.93	6.50 9.59	10.09	5.03 16.82	12.78 0.26	0.00	7.77 1.69	10.64 2.75	12.12 6.41	18.33 1.36	16.99	6.58 8.22
Program Approved Vendor Program representative	8.44 20.24	15.77 29.29	5.87 17.07	11.98 22.20	16.97 27.20	5.58 42.42	0.00	25.34 32.30	21.77 22.76	10.35 45.26	6.23 19.91	0.65	4.63 25.07
Utility or program website Trade publication	0.51 1.16	0.36 1.46	0.56	1.45	0.00	0.00	0.00	0.00	4.50 8.73	0.00	0.17	0.00	0.00
Conference	4.06	2.74	4.53	1.22	19.77	0.00	0.00	0.00	2.29	0.00	0.00	12.88	0.00
Newspaper article Word of mouth	0.01 4.92	0.02 6.19	4.47	0.08 9.41	0.00 3.59	0.00	0.00	0.00 8.99	0.00 0.95	0.00 7.57	0.00 3.94	0.00	0.00 9.12
Previous experience with it Other	1.17 0.89	2.57 0.17	0.69 1.14	0.54 0.00	0.00 1.36	0.00	0.00	6.39 0.00	0.00 0.38	0.00	0.00	0.00 3.31	1.79
Contractor Result of an audit	31.34 0.19	17.23 0.00	36.28	14.53 0.00	8.76 0.00	15.72 0.00	100.00	10.20	15.39 0.00	5.79 0.00	12.53	66.05	28.40
e-mail 17	0.41	1.09	0.18	0.00	0.00	5.25 0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.47
Other -Record	1.72 1.60	0.30	2.06	0.00	0.00	0.00	0.00	0.79	0.18	1.14	8.03	0.00	4.66 2.82
Don't Know n	1.70 559	1.42 277	1.80 282	0.00 106	0.00	1.06 34	0.00	3.18 96	2.03 93	0.00 43	0.00 34	0.00	4.05 102
<a>AP9A> How else did you learn about Utility's program? Bill insert	4.36	2.79	4.92	2.35	13.90	0.67	0.00	0.91	0.97	14.30	0.00	3.31	7.73
Program literature Account representative	1.37	2.61	0.93	0.79	5.01	7.03	0.00	1.15	2.18	5.46 2.14	1.87	0.00	0.42
Program Approved Vendor	1.59	1.48	1.63	5.89	0.00	0.00	0.00	0.00	8.91	0.00	0.00	0.00	1.46
Program representative Utility or program website	2.75 2.71	0.60 3.04	3.50 2.60	0.43 3.45	1.19	0.00 9.33	0.00	0.92	2.83 1.65	1.20 2.98	0.00 12.97	0.00	8.22 2.07
Trade publication Conference	0.00 0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.25	0.00	0.00	0.00	0.00
Newspaper article	0.31	1.19	0.00	0.00	0.00	0.00	0.00	3.19	0.00	0.00	0.00	0.00	0.00
Word of mouth Previous experience with it	1.95 1.05	2.43 1.45	1.79 0.91	1.94 0.00	4.05 4.69	5.30 0.00	0.00	1.10 2.31	7.77 0.00	0.58 0.64	0.00	0.00	2.17 1.97
Other Contractor	0.12 8.76	0.22 2.81	0.09 10.85	0.89 5.49	0.00	0.00 1.05	0.00 21.49	0.00	0.73 1.16	0.00 6.94	0.00 3.39	0.00 27.97	0.00
Result of an audit Part of larger expansion or remodeling e	0.00 0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00 1.64	0.00	0.00	0.00	0.00	0.00
NO OTHER SOURCES Other -Record	72.84	79.54 0.15	70.49	74.07	69.97	76.62	78.51 0.00	88.08	70.43	64.17	64.15	68.31	75.26
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00 2.35	0.00	0.00	0.00	0.00	0.00 1.35	0.00	0.00	0.00	0.00
Email from utility or City of Palm Deser	1.06 551	5.96 274	0.00 277	25.52 106	0.00	0.00	0.00	0.00 94	0.00 92	0.00 43	0.00 34	0.00	0.00
<n33> You mentioned that you have an Utility Account Representativ</n33>	e. Can yo	u give me	his or he	er name?	!!Do y	rou have I	nis/her em	ail addres	s? !I	Do you ha	ve a phon	e number	for
him/her? !Do you have a cell phone number for him/her? Don't have ACCOUNT REP	47.04	88.93	41.94	83.40	100.00	100.00	0.00	62.96	10.28	92.31	100.00	0.00	73.54
Record information Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know THIS INFORMATION	7.48 35	7.28 16	7.50 19	4.70	0.00 5	0.00	0.00	37.04 7	0.00 2	7.69 5	0.00	0.00	26.46 8
<a1b> According to our Records, your organization also received a</a1b>	0.00	rom your 0.00		this corr	ect? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<id0> To the best of your knowledge, has the facility located at this Yes</id0>	26.22	21.13	28.00	15.45	25.90	13.22	90.92	16.91	8.41	15.11	5.27	60.41	14.70
No Don't Know	58.31 15.48	67.67 11.20	55.03 16.98	75.38 9.17	9.52	75.94 10.84	9.08 0.00	68.24 14.85	86.62 4.97	68.47 16.42	84.11 10.62	23.40 16.19	62.00 23.30
According to our Records, your organization also received T	561 ECHNICA	278 L ASSIST	283 ANCE fro	106 m vour U	38 tility . Is t	34 his correc	3 :t?	96	93	43	34	10	102
	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<a1d> According to our Records, your organization also received a</a1d>			UDY from			s correct	?			0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0.00	0.00	0.00 <i>0</i>	0.00	0.00	0.00	0.00
<a1e> According to our Records, your organization also received R</a1e>	0.00	O.00		your Uti 0.00	0.00	is correct 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <a1f> According to our Records, your organization also received Pi</a1f>	O ROGRAM	TRAINING	O G from vo	o ur Utility.	ls this co	orrect?	0	0	0	0	0	0	0
n	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<id1> Are you aware of any programs, other than the one we mentio</id1>	ned early	or resou	rces that	are desig	ned to he	lp organi	zations like	e yours re	duce its	energy bi	lls?		
Yes No	13.31 86.17	18.06 81.30	11.65 87.87	20.27 79.73	34.86 59.87	12.58 87.42	0.00 100.00	16.63 83.37	20.69 79.31	21.15 72.39	5.96 94.04	3.31 96.28	16.26 83.74
Don't Know	0.53 559	0.65 277	0.48 282	0.00 106	5.27 38	0.00 34	0.00	0.00 96	0.00 93	6.46 43	0.00 34	0.41 10	0.00
<id2> What types of programs can you recall? ?</id2>													
Rebates/incentives (include mentions of BLDG Commissioning(Retrocommissioning,Mo	31.45 0.24	13.08 0.25	0.23	16.16 0.91	0.00	17.65 0.00	0.00	8.61 0.00	39.53 1.07	38.19 0.00	10.71 0.00	100.00 0.00	35.78
Business energy audits and feasibility s Energy Centers (Pacific Energy Center, S	7.75 1.49	5.12 0.44	9.17 2.06	18.43 0.00	0.00	0.00	0.00	0.00 1.24	0.00	0.00	0.00	0.00	17.07
Seminars, classes, and workshops Other	2.37 7.82	6.73 7.00		0.00 8.62	28.33 12.96	0.00	0.00	0.00 4.34	0.00 3.19	0.00 38.34	0.00	0.00	0.00 7.17
Demand Response Programs (Flex Your Powe	22.57	19.90	24.03	32.28	27.37	6.83	0.00	10.00	31.47	20.90	5.76	0.00	27.72
Upstream HVAC and Motors Program OTHER PROGRAMRecord name or descripti	0.96 10.03	2.72 1.25		9.77 0.00	0.00 3.91	0.00 2.35	0.00	0.00	0.00 12.91	0.00	0.00 50.50	0.00	17.07
Refused Don't Know	0.00 11.70	0.00 29.56		0.00 9.48	0.00	0.00 51.73	0.00	0.00 57.05	0.00 4.71	0.00	0.00 13.22	0.00	0.00
		48		16	9	5	0.00	18	20	6		,	16

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<id3> Has your Account Representativeresentative, or any Program : Yes, Account Representative</id3>	Staff or P			scussed 0.00	solar, win	d or othe	r self-gene 21.49	ration equ	uipment 0.84	opportun 1.60	ities with y	ou?	0.64
Yes, Program Staff Yes, Program Vendor	1.60	1.91	1.49	2.66	0.00	6.51	0.00	0.00	3.76 5.02	0.00	0.35	0.00	2.58
Refused Don't Know	0.00 3.21	0.00	0.00 4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	559	277	282	106	38	34	3	96	93	43	34	10	102
<id3a> Has your Account Representativeresentative, Program Staff, Yes, Account Representative</id3a>	or Progra 12.83	am Vendo 3.40		sed Dema 3.76	and Redu 0.00	ction prog	grams, tecl 21.49	hNologies 3.28	5.59	ortunities 1.04	with you? 0.29	44.96	1.38
Yes, Program Staff Yes, Program Vendor	0.14 1.00	0.01	0.19 1.34	0.00	0.00	0.00	0.00	0.03	0.00	0.00 4.42	0.29 0.73	0.00	0.41 2.58
Refused Don't Know	0.00 3.50	0.00	4.64	0.00 0.49	0.00	0.00	0.00	0.00 0.28	0.00 1.65	0.00	0.00	0.00 12.88	0.00 0.48
n <li1> What are the primary types of lighting used at your facility that</li1>										43	34	10	102
High Performance T8 Fixtures T8 Fluorescent Fixtures (1 inch)	0.00 11.34	0.00 4.20	0.00 13.84	0.00 7.69	0.00 5.59	0.00	0.00 21.49	0.00	0.00 9.07	0.00 4.83	0.00	0.00 27.97	0.00 8.47
T10 Fluorescent Fixtures T12 Fixtures (1.5 in)	0.20	0.00	0.70	0.00	0.00 3.80	0.00	0.00	0.00	2.21 5.10	0.00 0.42	0.00	0.00	0.00 0.15
T5 Fixtures (5/8 inch) COMPACT HID (High Intensity Discharge) F	0.09 0.23	0.04 0.61	0.10 0.10	0.15 0.12	0.00 4.69	0.00	0.00	0.00	0.52 0.54	0.00 0.64	0.00	0.12	0.00
Screw-in Modular CFL bulbs Hardwired CFL Fixtures	0.76 5.51	1.38 1.46	0.54 6.92	1.19 5.89	4.69 0.00	1.68 0.00	0.00	0.49	0.12 8.73	0.64 0.00	1.25 0.00	0.00 16.99	0.92 0.67
Incandescent Other	4.98 2.52	5.66 4.40	4.74 1.86	17.52 11.87	0.14 10.97	5.37 0.00	0.00	0.71 0.30	9.20 2.36	13.12 11.26	3.58 0.00	0.00	6.58 2.53
Fat/Thick Tubes Skinny/Thin Tubes	0.98 2.84	0.08 2.87	1.30 2.83	0.23 0.08	0.18	0.00 2.74	0.00	0.00 6.10	1.71 2.78	0.00 6.21	8.03 11.15	0.00	0.52 2.40
Other-Record Refused	5.85 0.00	5.53 0.00		2.11 0.00	2.20 0.00	0.00	0.00	12.43 0.00	2.22 0.00	14.30 0.00	21.07 0.00	0.00	6.75 0.00
Don't Know LEDs (lamps/reflector lamps/fixtures-NOT	5.09 11.00	1.02	6.51 10.51	0.63 25.03	2.62 0.00	0.26 93.92	0.00	1.29 0.00	8.10 15.67	0.96 0.00	0.86 34.04	13.53	2.40 8.50
All lights were retrofitted n	55.97 559	65.81 277	52.52 282	51.95 106	34.35 38	85.96 34	78.51 3	72.95 96	47.46 93	43.34 43	59.77 34	41.39 10	62.85 102
<li1a> Which, if any, of the following automatic lighting controls are Timers</li1a>	used on 1 33.33	this older 18.68	equipmer 37.02	nt? 18.70	16.22	36.85	0.00	18.05	9.94	18.79	26.62	51.18	37.04
Occupancy sensors Photocells	16.43 12.21	6.08 1.83	19.03 14.82	3.66 1.53	10.49	26.68 15.81	0.00	0.74 0.18	14.40 6.76	5.84 19.72	46.73 9.06	28.99 28.99	1.82 0.00
NONE-no automatic lighting controls Other	54.16 4.36	62.03 12.26	52.17 2.37	65.85 12.26	73.29 0.00	39.24 0.00	100.00	50.28 26.55	62.45 16.61	70.75 0.00	16.16 0.00	48.82 0.00	59.37 0.47
Refused Don't Know	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00 4.56	0.00	0.00	0.00	0.00	0.00 1.30
n <led1> Does your older lighting that exisited before the retrofit have</led1>				36 ED lighti		10	1	32	43	23	12	5	37
Yes No	14.83 78.05	22.90 66.08	81.07	18.79 61.18	18.31 80.97	35.02 64.98	0.00 100.00	30.78 56.32	15.71 67.58	11.66 84.61	4.52 95.48	21.98 78.02	1.87 85.98
Don't Know	7.12 219	11.03 99	6.14 120	20.03 36	0.73 20	0.00	0.00	12.89 32	16.72 43	3.73 23	0.00 12	0.00 5	12.16 37
<li3> How old would you estimate this pre-retrofit lighting equipment Less than 5 years old</li3>	t to be?	Would vo											
	32.59	26.99	34.00	22.00	of it is 13.21	28.52	100.00	34.57	18.79	30.08	14.08	47.72	29.25
Between 5 and 10 years old Between 10 and 15 years old or	32.59 32.11 21.77	26.99 27.93 16.32	34.00 33.17 23.15	22.00 38.96 4.39	13.21 23.48 50.37	43.17 16.65	0.00	17.99 5.22	35.11 23.06	48.67 6.13	78.61 3.11	21.98 29.20	30.02 24.85
Between 5 and 10 years old Between 10 and 15 years old or More than 15 years old. Don't Know	32.59 32.11 21.77 12.15 1.37	26.99 27.93 16.32 25.27 3.48	34.00 33.17 23.15 8.85 0.83	22.00 38.96 4.39 32.64 2.01	13.21 23.48 50.37 11.85 1.09	43.17 16.65 11.66 0.00	0.00	17.99 5.22 33.83 8.39	35.11 23.06 19.90 3.13	48.67 6.13 12.56 2.56	78.61 3.11 4.21 0.00	21.98 29.20 1.10 0.00	30.02 24.85 15.05 0.83
Between 5 and 10 years old Between 10 and 15 years old or More than 15 years old. Don't Know a <li4> And how would you describe the condition of this lighting equij</li4>	32.59 32.11 21.77 12.15 1.37 219	26.99 27.93 16.32 25.27 3.48 99	34.00 33.17 23.15 8.85 0.83 120 I say it is.	22.00 38.96 4.39 32.64 2.01 36	13.21 23.48 50.37 11.85 1.09 20	43.17 16.65 11.66 0.00 10	0.00 0.00 0.00 0.00	17.99 5.22 33.83 8.39 32	35.11 23.06 19.90 3.13 43	48.67 6.13 12.56 2.56 23	78.61 3.11 4.21 0.00 12	21.98 29.20 1.10 0.00 5	30.02 24.85 15.05 0.83 37
Between 5 and 10 years old Between 10 and 15 years old or More than 15 years old. Don't Know n <ll4> And how would you describe the condition of this lighting equil In poor condition In Fair condition</ll4>	32.59 32.11 21.77 12.15 1.37 219 20ment? V 2.60 28.49	26.99 27.93 16.32 25.27 3.48 99 Would you 2.97 28.70	34.00 33.17 23.15 8.85 0.83 120 1 say it is. 2.50 28.44	22.00 38.96 4.39 32.64 2.01 36 4.50 41.62	13.21 23.48 50.37 11.85 1.09 20 0.00 22.62	43.17 16.65 11.66 0.00 10 0.00 19.21	0.00 0.00 0.00 0.00 1	17.99 5.22 33.83 8.39 32 4.65 24.42	35.11 23.06 19.90 3.13 43 11.01 36.31	48.67 6.13 12.56 2.56 23 0.00 41.76	78.61 3.11 4.21 0.00 12 0.00 47.82	21.98 29.20 1.10 0.00 5 0.00 28.99	30.02 24.85 15.05 0.83 37 3.40 15.32
Between 5 and 10 years old Between 10 and 15 years old or More than 15 years old. Don't Know **CLI4> And how would you describe the condition of this lighting equip In poor condition In Fair condition or In Good condition Don't Know	32.59 32.11 21.77 12.15 1.37 219 coment? V 2.60 28.49 67.63 1.29	26.99 27.93 16.32 25.27 3.48 99 Would you 2.97 28.70 63.23 5.10	34.00 33.17 23.15 8.85 0.83 120 1 say it is. 2.50 28.44 68.74 0.32	22.00 38.96 4.39 32.64 2.01 36 4.50 41.62 43.06 10.82	13.21 23.48 50.37 11.85 1.09 20 0.00 22.62 77.38 0.00	43.17 16.65 11.66 0.00 10 0.00 19.21 80.79 0.00	0.00 0.00 0.00 0.00 1	17.99 5.22 33.83 8.39 32 4.65 24.42 66.48 4.45	35.11 23.06 19.90 3.13 43 11.01 36.31 51.43 1.24	48.67 6.13 12.56 2.56 23 0.00 41.76 58.24 0.00	78.61 3.11 4.21 0.00 12 0.00 47.82 52.18 0.00	21.98 29.20 1.10 0.00 5 0.00 28.99 71.01 0.00	30.02 24.85 15.05 0.83 37 3.40 15.32 80.76 0.52
Between 5 and 10 years old of Between 10 and 15 years old or More than 15 years old or More than 15 years old. Don't Know **CLIA> And how would you describe the condition of his lighting equition in Fair condition of In Fair condition of In Good condition Don't Know or CLIE> Do you currently have any plans to retrofit your old lighting equitions.	32.59 32.11 21.77 12.15 1.37 219 2.60 28.49 67.63 1.29 219	26.99 27.93 16.32 25.27 3.48 99 Would you 2.97 28.70 63.23 5.10	34.00 33.17 23.15 8.85 0.83 120 2 say it is. 2.50 28.44 68.74 0.32	22.00 38.96 4.39 32.64 2.01 36 4.50 41.62 43.06 10.82	13.21 23.48 50.37 11.85 1.09 20 0.00 22.62 77.38 0.00 20	43.17 16.65 11.66 0.00 10 0.00 19.21 80.79 0.00 10	0.00 0.00 0.00 0.00 1 0.00 0.00 100.00 0.00	17.99 5.22 33.83 8.39 32 4.65 24.42 66.48 4.45 32	35.11 23.06 19.90 3.13 43 11.01 36.31 51.43 1.24 43	48.67 6.13 12.56 2.56 23 0.00 41.76 58.24 0.00 23	78.61 3.11 4.21 0.00 12 0.00 47.82 52.18 0.00 12	21.98 29.20 1.10 0.00 5 0.00 28.99 71.01 0.00 5	30.02 24.85 15.05 0.83 37 3.40 15.32 80.76 0.52 37
Between 5 and 10 years old a Between 10 and 15 years old or More than 15 years old. More than 15 years old. Don't Know **CLI4> And how would you describe the condition of this lighting equition in Fair condition of In Fair condition on In Good condition In Good condition Don't Know **Record Condition of Control	32.59 32.11 21.77 12.15 1.37 219 coment? V 2.60 28.49 67.63 1.29 219 iipment? 19.64 79.96	26.99 27.93 16.32 25.27 3.48 99 Nould you 2.97 28.70 63.23 5.10 99	34.00 33.17 23.15 8.85 0.83 720 1 say it is. 2.50 28.44 68.74 0.32 720	22.00 38.96 4.39 32.64 2.01 36 4.50 41.62 43.06 10.82 7.17 92.83	13.21 23.48 50.37 11.85 1.09 20 0.00 22.62 77.38 0.00 20	43.17 16.65 11.66 0.00 10 0.00 19.21 80.79 0.00 10	0.00 0.00 0.00 0.00 1 0.00 0.00 100.00 100.00 100.00	17.99 5.22 33.83 8.39 32 4.65 24.42 66.48 4.45 32 20.85 74.70	35.11 23.06 19.90 3.13 43 11.01 36.31 51.43 1.24 43 14.55 85.45	48.67 6.13 12.56 2.56 23 0.00 41.76 58.24 0.00 23 17.61 82.39	78.61 3.11 4.21 0.00 12 0.00 47.82 52.18 0.00 12 8.89 91.11	21.98 29.20 1.10 0.00 5 0.00 28.99 71.01 0.00 5	30.02 24.85 15.05 0.83 37 3.40 15.32 80.76 0.52 37 9.19
Between 5 and 10 years old of Between 10 and 15 years old or More than 16 years old old old or More than 16 years old	32.59 32.11 21.77 12.15 1.37 219 2.60 28.49 67.63 1.29 219 219 219 31pment? 49.66 0.39 219	26.99 27.93 16.32 25.27 3.48 99 Would you 2.97 28.70 63.23 5.10 99	34.00 33.17 23.15 8.85 0.83 720 J say it is. 28.44 0.32 720 18.93 80.92 0.16	22.00 38.96 4.39 32.64 2.01 36 4.50 4.50 4.50 7.17 92.83 0.00 36	13.21 23.48 50.37 11.85 1.09 20 0.00 22.62 77.38 0.00 20 46.05 53.95 0.00	43.17 16.65 11.66 0.00 0.00 19.21 80.79 0.00 70 35.66 64.34 0.00	0.00 0.00 0.00 0.00 1 0.00 0.00 100.00 0.00 100.00 100.00	17.99 5.22 33.83 8.39 32 4.65 24.42 66.48 4.45 32	35.11 23.06 19.90 3.13 43 11.01 36.31 51.43 1.24 43	48.67 6.13 12.56 2.56 23 0.00 41.76 58.24 0.00 23	78.61 3.11 4.21 0.00 12 0.00 47.82 52.18 0.00 12	21.98 29.20 1.10 0.00 5 0.00 28.99 71.01 0.00 5	30.02 24.85 15.05 0.83 37 3.40 15.32 80.76 0.52 37
Between 5 and 10 years old of Between 10 and 15 years old or More than 16 years old old or More than 16 years old of than 16 years old old or More than 16 years old old old or More than 16 years old	32.59 32.11 21.77 12.15 1.37 219 219 219 67.63 1.29 219 19.64 79.96 0.39 219 219 219 219 219 219 219 219 219 21	26.99 27.93 16.322 25.27 3.48 99 Nould you 2.977 28.70 63.23 5.10 99 22.48 76.18 1.34 1.34 0.00	34.00 33.17 23.15 8.85 0.83 720 1 say it is. 2.50 28.44 68.74 0.32 720 18.93 80.92 0.16 19	22.00 38.96 4.39 32.64 2.01 36 4.50 41.62 43.06 10.82 7.17 92.83 0.00 am during 0.00	13.21 23.48 50.37 11.85 1.09 20 0.00 22.62 77.38 0.00 20 46.05 53.95 0.00 3, is this	43.17 16.65 11.66 0.00 0.00 10 19.21 80.79 0.00 10 35.66 64.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 f 0.00 0.00 0.00 0.	17.99 5.22 33.83 8.39 32 4.65 24.42 66.48 4.45 32 20.85 74.70 4.45 32	35.11 23.06 19.90 3.13 43 11.01 36.31 51.43 1.24 43 14.55 85.45 0.00 43	48.67 6.13 12.56 2.56 23 0.00 41.76 58.24 0.00 23 17.61 82.39 0.00 23	78.61 3.11 4.21 0.00 72 0.00 47.82 52.18 0.00 12 8.89 91.11 0.00 72	21.98 29.20 1.10 0.00 5 0.00 28.99 71.01 0.00 5 30.09 69.91 0.00 5	30.02 24.85 15.05 0.83 37 3.40 15.32 80.76 0.52 37 9.19 90.30 0.52 37
Between 5 and 10 years old a Between 10 and 15 years old or More than 15 years old years old years old years of the second o	32.59 32.11 21.77 12.15 1.37 279 2.600 28.49 67.63 1.299 279 219 219 219 219 219 219 219 219 219 21	26.99 16.32 25.27 3.48 99 Would you 2.97 63.23 5.10 99 22.48 76.18 1.34 99 through 0.00 0	34.00 33.17 23.15 8.85 0.83 720 1 say it is. 2.50 28.44 0.32 720 18.93 80.92 0.16 120 0.00 the Progr	22.00 38.96 4.39 32.64 2.01 36 4.50 41.62 43.06 10.82 36 7.17 92.83 0.00 36 am during 0.00 0 in the Pr	13.21 23.48 50.37 11.85 1.09 20 0.00 22.62 77.38 0.00 20 46.05 53.95 0.00 20 3, is this 0.00 ogram?	43.17 16.65 11.66 0.00 10.00 19.21 80.79 0.00 70 35.66 64.34 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 100.00 100.00 100.00 0.00 100.00 0.00 0.00	17.99 5.22 33.83 8.39 32 4.65 24.42 66.48 4.45 32 20.85 74.70 4.45 32	35.11 23.06 19.90 3.13 43 11.01 36.31 51.43 1.24 43 14.55 85.45 0.00 43	48.67 6.13 12.56 2.56 23 0.00 41.76 58.24 0.00 23 17.61 82.39 0.00 23	78.61 3.11 4.21 0.00 12 0.00 47.82 52.18 0.00 12 8.89 91.11 0.00 12	21.98 29.20 1.10 0.00 5 28.99 71.01 0.00 5 30.09 69.91 0.00 5	30.02 24.85 15.05 0.83 377 3.40 15.32 80.76 0.52 37 9.19 90.30 0.52 37
Between 5 and 10 years old Between 10 and 15 years old or More than 15 years old. Lid> And how would you describe the condition of this lighting and In poor condition In Fair condition or In Good condition In Fair condition or In Good condition Don't Know In Good condition Don't Know In Good condition Don't Know In Condition In Fair condition or Yes No Don't Know In Good Condition In Fair Condition In In Good Condition In	32.59 32.11 21.77 12.15 1.37 219 coment? V 2.60 28.49 67.63 1.29 219 iipment? 19.64 79.96 0.39 219 coments of the coment of the	26.99 27.93 16.32 25.27 3.48 99 Would you 2.97 63.23 5.10 99 22.48 76.18 1.34 99 through 1 0.00 6 0.00	34.00 34.00	22.00 38.96 4.39 32.64 2.01 36 41.62 43.06 10.82 36 7.17 92.83 0.00 36 am during 0.00 0 in the Pr 0.000 0.00	13.21 23.48 50.37 11.85 1.09 20 0.000 22.62 77.38 0.00 20 46.05 53.95 0.00 20 3, is this 0.000 0 .000	43.17 16.65 11.66 0.00 70 0.00 19.21 80.79 0.00 70 35.66 64.34 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 100.00 100.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00	17.99 5.22 33.83 8.39 32 4.65 24.42 66.48 4.45 32 20.85 74.70 4.45 32 0.00 0	35.11 23.06 19.90 3.13 43 11.01 36.31 51.43 1.24 43 14.55 85.45 0.00 43 0.00 0	48.67 6.13 12.56 23 0.00 41.76 58.24 0.00 23 17.61 82.39 0.00 0.00 0.00 0.00	78.61 3.11 4.21 0.00 12 0.00 47.82 52.18 0.00 12 91.11 0.00 12 0.00 0.	21.98 29.20 1.10 0.00 5 0.00 28.99 71.01 0.00 5 30.09 69.91 0.00 0.00 0.00	30.02 24.85 15.05 0.83 37 3.40 15.32 80.76 0.52 37 9.19 90.30 0.52 37
Between 5 and 10 years old Between 10 and 15 years old or More than 16 years of More than 16 yea	32.59 32.11 21.77 12.15 1.37 219 20ment? V 2.60 28.49 67.63 1.29 219 ipment? 19.64 79.96 0.39 219 0 0 0 0 0 0 0.000 0.000 0.000	26.99 27.93 16.32 25.27 25.27 28.70 63.23 5.10 99 22.48 76.18 1.34 99 through 0.00 0.00 0.000	34.00 34.00 33.17 23.15 8.85 0.83 720 J say it is. 2.50 28.44 68.74 0.32 720 18.93 80.92 0.16 720 0.00 0.00 0.00 0.00	22.00 38.96 4.39 32.64 2.01 366 4.50 4.50 4.50 7.17 7.17 9.283 0.00 6.00 0.00 0.00 0.00 0.00	13.21 23.48 50.37 11.85 1.09 20 0.00 22.62 77.38 0.00 20 46.05 53.95 0.00 0.00 0.00 0.00 0.00 0.00	43.17 16.65 10.60 0.00 10 19.21 80.79 0.00 70 35.66 64.34 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 100.00 0.00 100.00 0.00 100.00 0.00	17.99 5.22 33.83 8.39 32 4.65 24.42 66.48 4.45 32 20.85 74.70 4.45 32 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35.11 23.06 19.90 3.13 43 11.01 36.31 51.43 1.24 43 14.55 85.45 0.00 43 0.00 0.00 0.00 0.00	48.67 6.13 12.56 2.56 23 41.76 58.24 0.00 23 17.61 82.39 0.00 23 0.00 0.00 0.00 0.00 0.00	78.61 3.11 4.21 0.00 72 0.00 47.82 52.18 0.00 72 8.89 91.11 0.00 0.00 0.00 0.00 0.00	21.98 29.20 1.10 0.00 5 0.00 28.99 71.01 0.00 5 0.00 0.00 0.00 0.00 0.00 0.0	30.02 24.85 15.05 0.83 37 3.40 15.32 80.76 0.52 37 9.19 90.30 0.52 37 0.00 0.00 0.00
Between 5 and 10 years old Between 10 and 15 years old or More than 18 years old. LIA> And how would you describe the condition of this lighting go or ondition of this lighting of In Good condition or In Good condition Don't Know Don't Know No Don't Know In More than 18 years of the World of the Wo	32.59 32.11 21.77 12.15 1.37 279 2.60 28.49 67.63 1.29 1.29 1.29 1.29 1.29 1.29 1.29 1.29	26.99 27.93 16.32 25.27 3.484 999 Would you 28.70 28.70 5.10 999 22.48 999 40.00 0.00 0.00 0.000 0.000 0.000	34.00 33.17 23.15 8.85 0.83 720 1 say it is. 2.50 28.44 0.32 720 18.93 80.92 0.16 720 the Progr. 0.00 0.00 0.00 0.00 0.00 0.00	22.00 38.96 4.39 32.64 2.01 36 4.50 4.50 4.50 6.00 6.00 6.00 6.00 6.00 6.00 6.00 6	13.21 23.48 50.37 11.85 1.09 20 0.00 22.62 77.38 0.00 20 48.05 53.95 0.00 20 0.00 0.00 0.00 0.00 0.00 0.00	43.17 16.65 11.66 0.00 70 0.00 19.21 80.79 0.00 70 35.66 64.34 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 100.00 100.00 100.00 100.00 100.00 0.00 100.00 0.00	17.99 5.22 33.83 8.39 32 4.65 24.42 66.48 4.45 32 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	35.11 23.06 3.13 43 11.01 36.31 51.43 14.55 85.45 0.00 0.00 0.00 0.00 0.00 0.00 0.00	48.67 6.13 12.56 2.56 23 0.00 41.76 58.24 0.00 23 17.61 82.39 0.00 0.00 0.00 0.00 0.00 0.00 0.00	78.61 3.11 4.21 0.00 72 0.00 47.82 52.18 0.00 12 8.89 91.11 0.00 0.00 0.00 0.00 0.00 0.00 0.	21.98 29.20 1.10 0.00 5 0.00 28.99 71.01 0.00 5 30.09 69.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00	30.02 24.85 15.05 0.83 37 3.40 15.32 80.76 0.52 37 9.19 90.30 0.52 37 0.00 0.00 0.00 0.00 0.00 0.00
Between 5 and 10 years old Between 10 and 15 years old or More than 15 years old. LIA> And how would you describe the condition of this lighting equipment of this lighting equipment was made of the More of t	32.59 32.11 21.77 12.15 1.37 279 279 28.49 2.60 28.49 279 19.64 79.96 0.39 0 0 0 0.00 0.00 0.00 0.00 0.00 0.0	26.99 27.93 16.32 25.27 3.48 99 29.73 28.70 28.70 29.77 28.70 5.10 99 22.48 1.34 1.34 1.34 1.34 1.34 1.34 1.34 1.34	34.00 33.17 23.15 8.85 0.83 720 1 say it is. 2.50 28.44 0.32 720 18.93 18.93 10.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	22000000000000000000000000000000000000	13.21 23.48 50.37 11.85 1.09 20 0.00 22.62 77.38 0.00 20 48.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00	43.17 16.65 11.66 0.00 70 0.00 0.00 19.21 80.79 0.00 35.66 64.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 10.00 0.00 100.00 0.00 100.00 0	17.99 5.22 33.83 8.39 32 4.65 24.45 66.48 4.45 32 20.85 74.70 4.45 32 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	35.11 23.06 3.13 43 11.01 36.31 1.24 43 14.55 85.45 0.00 0.00 0.00 0.00 0.00 0.00 0.00	48.67 6.13 12.56 2.56 23 0.00 41.76 58.24 0.00 23 17.61 82.39 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	78.61 3.11 4.21 0.00 12 52.18 0.00 12 8.89 91.11 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.98 29.20 1.10 0.00 5 0.00 28.99 71.01 0.00 5 30.09 69.91 0.00	30.02 24.85 15.05 0.83 37 340 15.32 9.19 90.30 0.52 37 0.00 0.00 0.00 0.00 0.00 0.00
Between 5 and 10 years old of Between 10 and 15 years old or More than 15 years old or State 10 years old or More than 15 years old or No State 10 years old	32.595.00	26.99 27.93 16.32 16.32 2.97 2.97 2.97 2.97 2.97 2.97 2.97 2.9	34.00 33.17 23.15 8.85 8.65 8.85 9.25 9.25 9.25 9.25 9.25 9.26 9.16 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25	22000000000000000000000000000000000000	13.212 23.48 46.05 20 20 20 20 20 20 20 20 20 20 20 20 20	43.17 16.65 11.66 0.00 10.00 19.21 80.79 0.00 35.66 64.34 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	17.99 5.22 33.83 8.39 32 4.65 24.42 66.48 4.45 32 20.85 74.70 4.45 32 0.00 0 0 0.00 0.00 0.00 0.00 0.00 0.	35.11 23.06 19.90 3.13 43 11.01 36.31 12.44 43 14.55 85.45 0.00 0.00 0.00 0.00 0.00 0.00 0.00	48.67 6.13 12.56 2.56 2.56 58.24 0.00 23 17.61 82.39 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	78.61 3.11 4.21 0.00 12 52.18 0.00 12 52.18 0.00 12 91.11 0.00 0.	21.98 29.20 1.10 0.00 5 0.00 28.99 71.01 0.00 5 30.09 69.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3.0.02 24.85 15.05 0.83 37 3.40 0.52 80.76 0.52 37 9.19 9.03 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Between 5 and 10 years old of Between 10 and 15 years old or More than 15 years old. Botheen 10 and 15 years old. Don't Know n <li4> And how would you describe the condition of this lighting equipment was installed as a condition of the condition of the condition of the second of the condition of t</li4>	32.595.00	28.99 27.93 3.48 8.25 27.93 3.48 8.25 27.93 3.48 8.25 27.93 3.48 8.25 27.93 27	34.00 33.17 23.15 33.17 23.15 33.17 23.15 33.17 23.15 33.17 23.15 33.17 23.15 34.15 35.25	22000000000000000000000000000000000000	13.212 23.48 45.55 45.65	43.171 11.66 5 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.00 0.00 0.00 0.00 100.00 0.00 100.00 0.00 100.00 0.00	77.99 5.22 33.83 8.39 34.65 24.42 24.42 20.85 74.70 0.00 0.00 0.00 0.00 0.00 0.00 0.0	35.11 23.06 3.13 43 11.01 51.43 51.43 12.44 73 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	48.67 6.13 12.66 6.13 12.66 6.13 12.66 6.13 12.66 6.13 12.66 6.25 6.25 12.60 6.10 12.60	78.61 3.11 4.21 0.00 47.82 52.18 0.00 72 72 8.89 91.11 0.00 0.00 0.00 0.00 0.00 0.00 0.	2198 2920 1.10 0.00 0.00 0.00 0.00 0.00 0.00 0.	30.02 2485 15.05 0.83 37 3.40 0.52 80.76 0.52 37 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Between 5 and 10 years old of Between 10 and 15 years old or More than 16 years old or More than 16 years of More than	32.595 and 32.11	26.999 (27.93) 16.323 (27.93) 27.93 (27.93) 27.93 (27.93) 28.97 (Vould you 29.97) 28.77 (28.77) 28.77 (28.77) 29.97 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 22.48 (29.97) 23.47 (29.97) 24.48 (29.97) 25.48 (29.97) 26.4	34.00 33.17 23.15 23.15 23.15 23.15 25.15	22000 38.969 4.339 38.969 2.011 38.264 4.339 38.264 2.011 38.264 4.3000 4.3000 6.00000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.00000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.00000 6.00000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0000 6.0	13.21 2 3.48 4.05 5.07 5.00 5.00 5.00 5.00 5.00 5.00 5	43.17 1.665 2.00	0.00 0.00 0.00 0.00 100.00 100.00 100.00 100.00 0.00 100.00 0.	77.99 5.22 33.83 8.39 32 4.65 22.4.42 24.42 20.88 74.70 0.00 0.00 0.00 0.00 0.00 0.00 0.0	35.11 23.06 31.11 19.90 3.13 43 11.01 36.31 51.43 1.24 43 0.00 0.00 0.00 0.00 0.00 0.00 0.00	48.67 6.13 12.66 6.13 12.66 6.13 12.66 6.13 12.66 6.13 12.66 6.25 6.25 12.66 6.13 12.66	7861 3111 3111 3111 3111 3111 3111 3111 3	2198 (2000) (200	3.40 15.05 0.83 3.7 3.40 0.52 80.76 0.52 80.76 0.52 9.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Between 5 and 10 years old a Between 10 and 15 years old or More than 15 years old. Between 10 and 15 years old. More than 15 years old. Don't Know n <ilia> And how would you describe the condition of this lighting equipment was installed as in the performance 18 and the performance 18 and the performance 18 and 10 years of the performance 19 yea</ilia>	32.595 and 32.11	26.99 27.93 16.32 27.93 34.84 35.25 27.93 27.93 28.75 28.77	34.00 33.17 23.15 23.15 23.15 23.15 23.15 25.05	22000 38.969 4.339 38.969 2.010 3.8264 4.339 3.8264 2.010 4.505 4.3060 4.3060 6	13.21 23.48 4.05 5.03 7.00 7.00 7.00 7.00 7.00 7.00 7.00 7	43.17 1.66 6.6 6.6 1.6 6.6 6.6 1.6 6.6 6.6 6.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	77.99 5.22 33.83 8.39 32 4.65 24.42 24.42 20.85 7.470 0.00 0.00 0.00 0.00 0.00 0.00 0.0	35.11 23.06 35.13 19.90 3.13 43 11.01 51.43 1.24 43 0.00 0.00 0.00 0.00 0.00 0.00 0.00	48.67 (1.2.56	7861 1	2198 (200 miles) (90.02 24.85 0.83 3.40 15.05 80.76 9.19 9.19 9.19 9.00 0.00 0.00 0.00 0.00
Between 5 and 10 years old of Between 10 and 15 years old or More than 15 years old or Info year old years old or Info year old or Info year old or Info year old ondition of this lighting equipment of Info year old ondition Don't Know Info Year old Info year old ondition Don't Know Info Year old Year O	32.595 and 32.11	26.99 27.93 16.32 27.93 34.84 32.52 27.93 34.84 34.92 35.72 34.84 34.93	34.00 3.00 3.01 1.00 1.00 1.00 1.00 1.00 1	22000 38.999 4.3333 38.999 4.3333 32.646 2.0101 4.1626 4.1	13.21 23.48 50.37 31.41 50.50	43.17.1 1.66.6 5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	0.00 0.00 0.00 0.00 0.00 0.00 100.00 100.00 0.00 100.00 0.00	77.99 5.22 33.83 8.39 32 4.65 24.42 24.42 20.85 77.70 0.00 0.00 0.00 0.00 0.00 0.00 0.	35.11 23.06 19.90 3.13 43 11.01 36.31 51.43 1.24 43 14.55 0.00 0.00 0.00 0.00 0.00 0.00 0.00	48.67 6.13 12.56 6.13	7861 1	2198 (2000) (200	30.02 24.85 0.83 31.505 0.83 37.32 9.19 9.19 9.19 9.05 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Between 5 and 10 years old Between 10 and 15 years old or More than 15 years old or Info Good condition of this lighting equipment of Info Good condition of Info	32.595 and 32.11	26.99 26.99 27.93	34.00 33.17 23.15 23.15 23.15 23.16 23.17 23.15 23.17 23.15 23.17 23.17 23.17 23.17 23.17 23.17 23.17 23.17 23.17 23.17 23.17 23.17 23.17 24.17 25.17	22000 38.999 38.	13.21 23.48 45.05 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	43.17.1 1.686 1.000 1.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	77.99 5.22 33.83 8.39 32 4.65 22.42 22.42 20.85 77.70 0.00 0.00 0.00 0.00 0.00 0.00 0.	35.11 23.08 19.90 3.13 43 11.01 36.31 51.43 12.44 43 11.455 85.45 60.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	48.67 (1.5 m)	7861 4 21 1 0 0 0 0 1 1 2 1 2 1 2 1 2 1 2 1 2	2198 2920 1.10 0.00 0.00 0.00 0.00 0.00 0.00 0.	30.02 24.85 15.05 0.83 3.40 15.32 80.76 0.52 37 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Between 5 and 10 years old Between 10 and 15 years old or More than 16 years of More than 16 yea	32.595 and 32.11	26.99 26.99 27.93	34.00 34.00 33.17 23.15 33.17 23.15 3.85 8.85 8.85 8.85 8.87 18.87	22000 38.969 4.339 38.969 201 201 318.969 318.	13.21 2 3.48 4 5 5 3.77 4 5 6 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	43.171 at 1.665 at 1.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	77.98 5.22 33.83 8.39 32 4.85 22.42 22.42 20.85 74.70 0.00 0.00 0.00 0.00 0.00 0.00 0.0	35.11 23.06 19.90 3.13 43 43 11.01 36.31 12.4 43 12.4 43 0.00 0.00 0.00 0.00 0.00 0.00 0.00	48.67 6.13 12.56 6.13	7861 7861 7861 7861 7861 7861 7871 72 72 72 72 73 74 74 74 74 74 74 74	2198 (200 mm) (200 mm	39.02 24.85 15.05 0.83 37 3.40 15.32 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93
Between 5 and 10 years old Between 10 and 15 years old or More than 15 years old or Info Good condition of this lighting equipment of Info Good condition of Info	32.595 and 32.11	26.99 26.99 27.93	34.00 33.17 23.15 23.15 23.15 23.15 23.15 23.15 23.15 25.55 25.55 25.55 25.55 26.27 27 20 28.44 28.72 29.44 29.72 29.44 29.72 29.44 29.72 29.44 29.72 29.44 29.72 29.72 29.72 29.72 29.72 29.72 20.72	22000 38.969 4.333 38.969 2.010 3.860 2.011 4.502 3.860 2.011 4.502 3.860 3.86	13.21 23.48 45.50 37 37 38 37 38 37 38 37 38 38 38 38 38 38 38 38 38 38 38 38 38	43.171 at 1.665 at 1.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	77.98 5.22 33.83 8.39 32 4.85 24.42 24.42 4.85 24.42 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35.11 23.06 19.90 3.13 43 43 11.01 36.31 12.4 43 14.55 85.45 0.00 0.00 0.00 0.00 0.00 0.00 0.00	48.67 6.13 12.56 6.13	7861 7861 7861 7861 7861 7861 7871 78	2198 (2020) (202	39.02 24.85 15.03 0.83 37 3.40 15.32 3.40 15.32 0.52 27 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Between 5 and 10 years old Between 10 and 15 years old or More than 16 years old old or More than 16 years old old or More than 16 years old	32.595 and 32.11	26.99 26.99 27.93	34.00 33.17 23.15 23.15 23.15 23.15 23.15 25.05 25.05 25.05 25.05 26.07 28.44 28.72 28.44 28.72 20 21.	22000 38.969 4.333 38.969 4.333 32.646 2.010 4.500 4.500 4.500 6.0	13.21 23.48 50.37 31.20 23.48 50.37 31.20 23.48 50.37 31.20 23.20	43.17 1.66 6.66 6.7 1.66 6.66 6.7 1.66 6.66 6	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	77.90 5.22 33.83 8.39 32 4.65 22.43 22 4.65 22.7 77.70 0.00 0.00 0.00 0.00 0.00 0.0	35.11 23.06 19.90 3.13 43 43 11.01 36.31 12.4 43 12.4 43 0.00 0.00 0.00 0.00 0.00 0.00 0.00	48.67 6.13 12.56 6.13	7861 7861 7861 7861 7861 7861 7871 72 72 72 72 73 74 74 74 74 74 74 74	2198 (200 mm) (200 mm	39.02 24.85 15.05 0.83 37 3.40 15.32 0.63 0.76 0.93 0.90 0.00 0.00 0.00 0.00 0.00 0.00
Between 5 and 10 years old Between 10 and 15 years old or More than 16 years old old or More than 16 years old old or More than 16 years old old old or More than 16 years old	32.595 and 32.11	26.99 27.93 16.323 16.3	34.00 33.17 23.15 23.15 23.15 23.15 23.15 23.15 23.15 23.15 23.15 25.15	22000 38.969 4.333 38.969 4.333 32.646 2.010 3.2666 3.2666 3.2666 3.2666 3.2666 3.2666 3.2666 3.2666 3.2666 3.2666 3.2666 3.2666 3.26666 3.26666 3.26666 3.266666 3.26666666666	13.21 23.48 50.37 1.18	43.171 at 1.665 at 1.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	77.96 5.22 33.83 8.39 32 4.65 5.24.42 20.85 74.70 0.00 0.00 0.00 0.00 0.00 0.00 0.0	35.11 23.06 19.90 3.13 43 43 11.01 36.31 12.4 43 12.4 43 0.00 0.00 0.00 0.00 0.00 0.00 0.00	48.67 a	7861 7861 7861 7861 7861 7861 7861 7871 72 72 72 72 72 72 72	2198 (2000) (200	30.02 24.85 15.05 0.83 37 3.40 15.32 3.70 3.40 15.32 3.77 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Between 5 and 10 years old Between 10 and 15 years old or More than 16 years old old or More than 16 years old old or More than 16 years old	32.595 and 32.11	26.99 27.93 16.32 27.93 16.32 27.93 28.40 28.70 28.70 29.77 28.70 29.77 20.00 29.77 20.00	34.00 34.00 33.17 23.15 23.15 23.15 23.15 23.15 25.55	22000 38.999 4.3339 38.999 4.3339 32.646 2.0101 4.1626 3.66 4.1026	13.21 23.48 50.37 31.87 51.87	43.17 1.66 65 61 62 62 62 62 62 62 62 62 62 62 62 62 62	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	77.96 5.22 33.83 8.39 32 4.65 22.43 22 4.65 22.43 22 4.65 24.42 20.85 7.47 0.00 0.00 0.00 0.00 0.00 0.00 0.00	35.11 35.11 36.31 37.31 38.31 11.01 38.31 12.44 14.55 14.35 10.00 0	48.67 6.13 12.56 6.13	7861 311 421 000 311 421 000 4782 000 4782 889 9111 000 72 000 000 000 000 000 000 000 000	2198 (200 m) (30.02 24.85 15.05 0.83 37 3.40 15.32 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.8

	_	ED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	-ED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<li101d_1> What type of lighting was removed and replaced when y</li101d_1>	ou installe	_						the Progr		F & E	Re:	Rel	Rel
High Performance T8 T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DID NOT REMOVE ANYTHING, ADDITION ONLY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101e_1> Were the HID Lamps you removed High pressure Sodium</li101e_1>			cury Vap			?						U	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101f_1> Approximately how old were the lights that were remove</li101f_1>	ed/replace	d by the I	high perf	ormance	T8 fluores	cent fixtu		٥	٥	0	U	٥	-
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101g_1> How would you describe the removed light equipment's</li101g_1>	condition	? Would	you say 1	hey were	in	v	U	٧	٥	U	u u	۰	-
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101h_1> Approximately what percentage of the lighting equipment</li101h_1>	nt that wa		d and rep		s broken					0	U	٥	-
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li10a 2=""> Approximately how many T8 Flu</li10a>		U	U		U	٥	U	٥	٥	0	U	٥	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101b_2> Would you say that the number of T8 fluorescent fixture</li101b_2>	s installed	under the	e prograi		0	<u> </u>	-	۰	٥	,	-	۰	
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	percenta		you esti		U	٥	U	٥	٥	0	U	٥	
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101d_2> What type of lighting was removed and replaced when y</li101d_2>	-		fluoresce		s through	-	ram?						
High Performance T8 T8 fluorescent fixtures (1in, diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in, diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DID NOT REMOVE ANYTHING, ADDITION ONLY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101e_2> Were the HID Lamps you removed High pressure Sodium</li101e_2>	0 n. Metal H	0 alide. Mer	CULY Ass	or or Inca	ndescent	?	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101f_2> Approximately how old were the lights that were remove</li101f_2>	0 d/replace	0 d by the T	8 fluore	cent five	res?	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101g_2> How would you describe the removed light equipment's</li101g_2>	condition	2 Would	VOII SOV	hey were	in 0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101h_2> Approximately what percentage of the lighting equipment</li101h_2>	of that wa	o s remove	d and rer	laced was	0 s broken	or not wo	0 rking prior	to install	0 na?	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101a_3> Approximately how many T10 fluorescent fixtures did yo</li101a_3>	0 u buy for	this facili	tv?	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101b_3>Would you say that the number of T10 fluorescent fixture</li101b_3>	s installe	0 d under th	e progra	m are	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
*CLI101C_3> Were any placed/installed at another facility? If so, what	o percenta	ge would	you esti	nate?	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0

<li101d_3-what and="" lighting="" of="" p="" removed="" replaced="" type="" was="" when="" ye<=""></li101d_3-what>	PL F	the T10 (%)	LED Selector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Astronomy Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small (%)
High Performance T8 T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter) DID NOT REMOVE ANYTHING, ADDITION ONLY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101e_3> Were the HID Lamps you removed High pressure Sodiun</li101e_3>	0 Metal H	0 alide Me		or or Inca	0 andescent	0	0	0	0	0	0	0	0
	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101f_3> Approximately how old were the lights that were remove</li101f_3>	d/replace 0.00	0 d by the 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101g_3> How would you describe the removed light equipment's</li101g_3>	condition 0.00	? Would 0.00	9 you say t 0.00	hey were	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101h_3> Approximately what percentage of the lighting equipmer</li101h_3>	nt that wa	s remove 0.00	d and rep	laced wa	s broken	or not wo	rking prior	to installi	0.00	0.00	0.00	0.00	0.00
<li101a_4> Approximately how many HID fixtures did you buy for the state of the</li101a_4>	nis facility	7 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101b_4> Would you say that the number of HID fixtures installed to</li101b_4>	o under the	o program	are 0	0	0	0	0	0	0	0	0	0	0
<li101c_4> Were any placed/installed at another facility? If so, what</li101c_4>					0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00 0 ou installe	0.00 0 ed the HID	0	0.00 0 through th	0.00 0 ne Progra	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
High Performance T8 T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter) DID NOT REMOVE ANYTHING, ADDITION ONLY	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DID NOT REMOVE ANYTHING, ADDITION ONLY Other -Record	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101e_4> Were the HID Lamps you removed High pressure Sodiun</li101e_4>	n, Metal H 0.00	alide, Mei 0.00			ndescent 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101f_4> Approximately how old were the lights that were remove</li101f_4>	0	0	0	0	0	0	0	0	0	0	0	0	0
SETTOTE 42 Approximately now old were the lights that were remove	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101g_4> How would you describe the removed light equipment's</li101g_4>	·	? Would 0.00	you say t		in 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101h_4> Approximately what percentage of the lighting equipmer</li101h_4>	nt that wa	0.00		laced wa	0.00	0.00	rking prior	to installi	0.00	0.00	0.00	0.00	0.00
n <li101a_5> Approximately how many Compact Fluorescent, Screw-</li101a_5>	n Modula 0.00	r did you 0.00		onis facility	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CETTOTA_52 Approximately now many Compact Fluorescent, Screw-					. 0.00					0.00		00	0.00
n	0	0	0	0 under the	0 program	0	0	0	0	0	0	0	
	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0			0.00	0.00	0.00	0.00	0.00	0.00	0.00

<li 101d_5="">What type of lighting was removed and replaced when yo	Du installe	od LED Lamp(s)(%)	LED	LED Lamp(s)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small (%)
High Performance T8 T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors Flectronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter) DID NOT REMOVE ANYTHING, ADDITION ONLY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<lh01e_5> Were the HID Lamps you removed High pressure Sodium n</lh01e_5>	0.00 0.00	0.00 0.00			0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101f_5> Approximately how old were the lights that were remove n</li101f_5>	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00
< <u>LI101G_5> How would you describe the removed light equipment's</u> n	0.00	7 Would 0.00	you say t 0.00	0.00 0.00	in 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101h_5> Approximately what percentage of the lighting equipmer</li101h_5>	0.00	s remove 0.00			s broken 0.00	0.00 0.00		to install	ing? 0.00	0.00	0.00	0.00	0.00
<li101a_6> Approximately how many Hardwired Compact Fluoresce</li101a_6>	ont Fixture	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Fluoresce 0.00	0.00			ne progra	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
/ <li101c_6> Were any placed/installed at another facility? If so, what</li101c_6>	percenta 0.00	ge would			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101d_6>What type of lighting was removed and replaced when yo High Performance T8</li101d_6>	0 ou installe	0 d the Har		ompact F	0	0 0.00	through t	0 he Progra	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures T12 fluorescent fixtures	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter) DID NOT REMOVE ANYTHING, ADDITION ONLY	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CLI101E_6> Were the HID Lamps you removed High pressure Sodium	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101f_6> Approximately how old were the lights that were removed.</li101f_6>	0.00	d by the I 0.00	0.00	Compac 0.00	0.00	cent Fixtu	res? 0.00	0.00	0.00	0.00	0.00	0.00	0.00
-	0	0	o you say t	hey were	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
r <li101g_6> How would you describe the removed light equipment's</li101g_6>	condition 0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00			0.00
n	0.00 0 nt that wa	0.00 0 s remove	0 d and rep			or not wo	rking prior	to install	ing?		0	0	
Climate</td <td>0.00 0 nt that wa 0.00 0 is facility</td> <td>0.00 s remove 0.00 0</td> <td>0 d and rep 0.00 0</td> <td>0.00</td> <td>0.00 0</td> <td>0.00 0</td> <td>rking prior 0.00</td> <td>0.00 0</td> <td>ing? 0.00 0</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	0.00 0 nt that wa 0.00 0 is facility	0.00 s remove 0.00 0	0 d and rep 0.00 0	0.00	0.00 0	0.00 0	rking prior 0.00	0.00 0	ing? 0.00 0	0.00	0.00	0.00	0.00
<li101g_6> How would you describe the removed light equipment's 6 <li101h_6> Approximately what percentage of the lighting equipment <li101a_10> Approximately how many Reflectors did you buy for the lighting equipment</li101a_10></li101h_6></li101g_6>	0.00 0 t that wa 0.00 0 s facility	0.00 0 s remove 0.00 0	0 and rep 0.00 0	0.00	s broken 0.00	or not wo	rking prior	to install	ing? 0.00	0.00	0.00	0.00	
<li101g_6> How would you describe the removed light equipment's</li101g_6>	0.00 0 1t that wa 0.00 0 is facility 0.00 0 inder the 0.00 0	0.00 0 s remove 0.00 0 0 0 0 0 program 0.00 0	0.00 0.00 0.00 0.00 0 are 0.00	0.00 0 0.00 0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0	0.00	0.00	0.00	0.00

| <li101d_10>What type of lighting was removed and replaced when</li101d_10> | You instal | ant bell (%) | LED
supposed to the control of the c | ם
ח | B LED Lamp(s) Restaurant - Fast Food(%) | ⇒ LED Lamp(s)
Restaurant - Sit
Down(%) | LED Lamp(s)
Retail - Large(%) | LED Lamp(s)
Retail - Small(%) | | | LED Reflector(s)
Restaurant - Sit
Down(%) | LED Reflector(s)
Retail - Large(%) | LED Reflector(s)
Retail - Small(%) |

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High Performance T8 T8 fluorescent fixtures (1in, diameter b
 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00
 |
| T10 fluorescent fixtures
 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00
 |
| T12 fluorescent fixtures Compact HID (High Intensity Discharge) F
 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00
 |
| Screw-in Modular CFLS
 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00
 |
| Hardwired CFL Fixtures
 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00
 |
| Incandescent bulbs CFL Exit Signs
 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00
 |
| LED Exit Signs
 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
 | 0.00 | 0.00 | 0.00
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 |
| Halogen bulbs
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 | 0.00 | 0.00 | 0.00 | 0.00
 |
| Electronic Ballast
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 | 0.00 | 0.00 | 0.00 | 0.00
 |
| Magnetic Ballast
Manual Switches
 | 0.00
 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
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 |
| Lighting Controls, Time Clock
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| Lighting Controls, Occupancy Sensor
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| Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell
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| Other
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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00
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 |
| Fat/Thick Tubes
Skinny/Thin Tubes
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| T5 Fixtures (5/8in. diameter)
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| DID NOT REMOVE ANYTHING, ADDITION ONLY Other -Record
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| Don't Know
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| n <li101e_10> Were the HID Lamps you removed High pressure Sodiu</li101e_10>
 | ım, Metal
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Halide, Me | | | | 0
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| n <li101f_10> Approximately how old were the lights that were remove</li101f_10>
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 | ed by the | Reflector | 0
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| <li101g_10> How would you describe the removed light equipment's</li101g_10>
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| <li101h_10> Approximately what percentage of the lighting equipment.</li101h_10>
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| <li101a_11> Approximately how many Electronic Ballasts did you b</li101a_11>
 | uy for this
 | facility? | 0.00 | 0.00 | 0.00 | 0.00
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| <li101b_11> Would you say that the number of Electronic Ballasts in</li101b_11>
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| <li101c_11> Were any placed/installed at another facility? If so, wh</li101c_11>
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| CLIO1D_11>What type of lighting was removed and replaced when: High Performance T8 T8 fluorescent fixtures (11, diameter b T10 fluorescent fixtures) T12 fluorescent fixtures T12 fluorescent fixtures Compact HID (High Intensity Discharge) F Screw-in Notaliar CFLS Hardwired CFL Fixtures incandescent builbs CFL Ext Signs LED Ext Signs LED Ext Signs Hatogen builbs Reflectors Electronic Ballast Magnetic Ballast Magnetic Ballast Magnetic Ballast Manual Switches Lighting Contriots, Time Clock Lighting Contriots, Time Clock
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### CLIDID_11>What type of lighting was removed and replaced when it high Performance T6 High Performance T6 T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures (1 T12 fluorescent fixtures in T12 fluorescent butbs in T12 fluores	at percent	tage would be seen as a se	d you est 0.000 0.		0.000 0.000	0.00 0 0 0 0 0 0 0 0 0	0.00 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.	0.00 0.00	0.000 0.000	0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
SILED Earl Signs Halpen Controls. Reflectors Blighting was removed and replaced when it is a control to the sign of the sign	at percent	Control Cont	d d you est do	imate? 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.000	0.00 0.	0.00 0 2 2 0.00 0.0	0.00 0.00	0.00 0.00	0.000 0.000	0.00 0.00	0.00 0.00	0.00 0.00
	at percentage at	aage would be a large would be also well as a large would be a large would	d you est do you est and you e	mate?	0.000	0.00 0.	0.00	0.00 0.	0.00 0.00	0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00	0.00 0.	0.00 0.00
SLIDID_11>What type of lighting was removed and replaced when in High Performance T8 T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures in T12 fluorescent fixtures Compact HID (High Intensity Discharge) F Screw-in Modular CFLS Screw-in Modular CFLS Hardwired CFL Fixtures in Incandescent buibs CFL Exil Signs LED Exil Signs LED Exil Signs Halogen buibs Reflectors Reflectors Electroric Ballast Magnetic Ballast Magnetic Ballast Magnetic Ballast Magnetic Ballast Magnetic Ballast Lighting Controls, Time Clock Lighting Controls, Decupancy Sensor Lighting Controls, Popass Delay Timers Lighting Controls, Popass Delay Timers Lighting Controls, Photocell Other FatThick Tubes Skinny Thin Tubes T5 Fatures (s/Siin diameter) DID NOT REMOVE ANYTHINS, ADDITION ONLY Other -Record Refused Don't Know	at percent 0.0000 or constant 0.	age would be a large with a lar	d you est		0.000	0.00 0.	0.00 0.00	0.00 0.00	0.00 0.00	0.000 0.000	0.00 0.00	0.00 0.00	0.00 0.00
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Lighting was removed and replaced when help her promote 78 High Performance 78 High performance 78 T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures for T2 fluorescent fixtures for T2 fluorescent fixtures of T3 fluorescent fixtures of T3 fluorescent fixtures of T3 fluorescent fixtures (58 fluorescent fixturescent fixture	at percent	age would be a large with a large would be a large would	d you est on the control of the cont		0.000 the control of	0.00 0.	0.00 0.	0.00 0.	0.00 0.00	0.000 0.000	0.00 0.00	0.00 0.	0.00 0.00
CLIO1D_11>What type of lighting was removed and replaced when help hereform when help hereform when help hereform when help hereform was removed and replaced when help hereform was removed and replaced when he here was removed the provided and replaced the provided replaced by the provided replaced r	at percent	age would be a seen of the see	d you est d ou ou of the control of		0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.	0.00 0.	0.00 0.00	0.000 0.000	0.00 0.00	0.00 0.	0.00 0.00
Lighting was removed and replaced in High Performance T8 High Performance T8 High Performance T8 T8 fluorescent flutures (1 in, diameter by T10 fluorescent flutures). T10 fluorescent flutures T10 fluorescent flutures. T12 fluorescent butbs. T12 fluturescent butbs. T13 fluturescent butbs. T14 fluturescent butbs. T15 flu	at percent	a age would be a age with a age w	d you est d ou o		0.000 the control of	0.00 0.	0.00 0.	0.00 0.	0.00 0.00	0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00	0.00 0.	0.00 0.00
### STATINE TO NOT REMOVE ANYTHING, ADDITION ONLY Clioting Control on the programme of	The control of the	age would be laid to the laid of the laid	d you est d ou o	mate? mate	0.000 the control of	0.00 0.	0.00 0.	0.00 0.	0.00 0.	0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00	0.00 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
SLIBOID_11>What type of lighting was removed and replaced when in High Performance T8 T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures) T10 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures) T2 fluorescent fixtures Compact HID (High Intensity Discharge) F Screw-in Modular CFLS Hardwired CFL Fixtures CFL Exit Signs LED Exit Signs LED Exit Signs Halogen bulbs Reflectors Electroric Ballast Magnetic Ballast Magnetic Ballast Magnetic Ballast Magnetic Ballast Lighting Controls, Time Clock Lighting Controls, Departy Sensor Lighting Controls, Departy Sensor Lighting Controls, Departy Sensor Lighting Controls, Photoceal Other FatThick Tubes T5 Fixtures (s/Sin. diameter) DID NOT REMOVE ANYTHING, ADDITION ONLY Other -Record Refused DOT! Know Other -Record Refused CAL101E_11> Were the HID Lamps you removed High pressure Sodii													
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	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	ED Reflector(s) Restaurant - Fast ood(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<li101d_13>What type of lighting was removed and replaced when High Performance T8</li101d_13>								Program?	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
T12 fluorescent fixtures Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter) DID NOT REMOVE ANYTHING, ADDITION ONLY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
n	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101e_13> Were the HID Lamps you removed High pressure Sodium</li101e_13>	m, Metal 0.00			por or Inc	andescer	nt? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
<li101f_13> Approximately how old were the lights that were remove.</li101f_13>	ed/replac	ed by the			r Lighting	Controls							
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101g_13> How would you describe the removed light equipment's</li101g_13>	conditio	n? Would	l you say	they were	e in								
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101h_13> Approximately what percentage of the lighting equipment</li101h_13>	ent that w	_	ed and re	_	as broken				-		, ,	,	
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
<li101a_16> Approximately how many These Other Fluorescent Fix</li101a_16>					U	U	0	0	U	U	0	U	U
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
<li101b_16> Would you say that the number of These Other Fluores</li101b_16>	cent Fixtu	roe inetal	0 lad unda	the prog	ram are	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
// CLI101C 16> Were any placed/installed at another facility? If so, wh	0	0	0	0	0	0	0	0	0	0	0	0	0
SETTOTO_10 - Were any placeumstaneu at another facility : if so, wi	0.00	0.00	0.00	timate? 0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
n <li101d_16>What type of lighting was removed and replaced when</li101d_16>	0	0	0 ese Othe	0	ent Fixtu	0	n the Pro	0	0	0	0	0	0
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
DID NOT REMOVE ANYTHING, ADDITION ONLY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<li101e_16> Were the HID Lamps you removed High pressure Sodiu</li101e_16>	m, Metal 1 0.00	Halide, Me 0.00	o.00	por or Inc	andescer 0.00	nt? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0.00	0.00		0.00	0.00
<li101f_16> Approximately how old were the lights that were removed.</li101f_16>	ed/replac 0.00	ed by the 0.00	These O	0.00	escent Fix 0.00	ctures? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101g_16> How would you describe the removed light equipment's</li101g_16>	conditio	n? Would		they were	e in	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
<li101h_16> Approximately what percentage of the lighting equipment</li101h_16>													
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
<li101a_17> Approximately how many Skinny/Thin Fluorescent Tub</li101a_17>			uy for th		?							-	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101b_17> Would you say that the number of Skinny/Thin Fluores</li101b_17>	cent Tube		installed	under the	program		,	,	J			0	Ü
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
<li101c_17>Were any placed/installed at another facility? If so, what</li101c_17>	o t percent	age would	0 I you est	o imate?	0	0	0	0	0	0	0	0	0
in so, who	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
n	0	0		0	0	0	0	0	0	0	0	0	0

<li101d_17>What type of lighting was removed and replaced when y</li101d_17>	Vou install	ed LED Lamp(s)(%)	LED uiq Zyketlector(s)(%)		LED Lamp(s) Restaurant - Fast Food(%)	HED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) H Retail - Large(%)	LED Lamp(s)		LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
High Performance T8 T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs LED Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter) DID NOT REMOVE ANYTHING, ADDITION ONLY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DID NOT REMOVE ANYTHING, ADDITION ONLY Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101e_17> Were the HID Lamps you removed High pressure Sodiu</li101e_17>	m, Metal I	Halide, Me	o.00	por or Inc 0.00	andescer 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
<li101f_17> Approximately how old were the lights that were removed in the control of the con</li101f_17>	0.00 0.00	0.00 0	Skinny/T 0.00	0.00	0.00	0.00	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00
<li101g_17> How would you describe the removed light equipment's</li101g_17>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101h_17> Approximately what percentage of the lighting equipme</li101h_17>	ent that w	as remove		placed wa	s broken	or not wo	orking prio	r to insta	lling?				
	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101b_18> Would you say that the number of T5 Fixtures installed</li101b_18>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
/ / / / / / / / / / / / / / / / / / /	o at percent 0.00	0.00	0.00	imate? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101d_18>What type of lighting was removed and replaced when y</li101d_18>							0	0	0	0	0	0	0
High Performance T8 T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 fluorescent fixtures Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardwired CFL Fixtures Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LED Exit Signs Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DID NOT REMOVE ANYTHING, ADDITION ONLY Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101e_18> Were the HID Lamps you removed High pressure Sodiu</li101e_18>	m, Metal I		orcury Va	por or Inc	andescer 0.00		0.00	0.00	0.00	0.00		0.00	0.00
n <li101f_18> Approximately how old were the lights that were remove</li101f_18>	o ved/replac	ed by the	T5 Fixtu	res?	0	0	0	0	0	0	0	0	0
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101g_18> How would you describe the removed light equipment's</li101g_18>	0.00	0.00	0.00	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li101h_18> Approximately what percentage of the lighting equipments.</li101h_18>	0.00	0.00	0.00 0.00	placed wa 0.00 0	0.00	0.00 0.00	0.00	0.00	0.00 0	0.00	0.00	0.00	0.00
		u buy for t	this facili	ty?	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
<li101a_77> Approximately how many These Other Lighting Measur</li101a_77>	0.00	0.00	0.00	0.00							0.001		
<li101a_77> Approximately how many These Other Lighting Measur <li101b_77>Would you say that the number of These Other Lighting</li101b_77></li101a_77>	0 Measures	0 s installed	o under th	o e progran	o n are	0	0	0	0	0	0	0	0
n	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0						0.00		0.00

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<li101d_77>What type of lighting was removed and replaced when y High Performance T8</li101d_77>	ou install 0.00	0.00	ese Othe 0.00	r Lighting 0.00	Measure 0.00	s through 0.00	0.00	am? 0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures T12 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact HID (High Intensity Discharge) F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Screw-in Modular CFLS Hardwired CFL Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFL Exit Signs LED Exit Signs	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manual Switches Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell Other	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DID NOT REMOVE ANYTHING, ADDITION ONLY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101e_77> Were the HID Lamps you removed High pressure Sodiu</li101e_77>	m. Metal	0 Halide, M		por or inc	0 candesce	ont?	0	0	0	0	0	0	0
	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101f_77> Approximately how old were the lights that were removed.</li101f_77>	/ed/renlac	ed by the	These O	ther Light	ting Meas	Ures?	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li101g_77> How would you describe the removed light equipment's</li101g_77>	0 conditio	n2 Would	0 I you say	thou wor	0 0 in	0	0	0	0	0	0	0	0
SETTOTO_117 How would you describe the removed light equipment s	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<li101h_77> Approximately what percentage of the lighting equipment.</li101h_77>	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<c_replace_addon> To determine if replacement or Addon? REPLACEMENT</c_replace_addon>	99.54	100.00	99.44	100.00	0.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	99.29
ADDON	0.46	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71
CUST_INSTALL_DATE_NU> Our Records indicate that your organize	46 ration inst	20 talled this	26 CUSTON	6 I LIGHTIN	G EQUI	1 PMENT or	this spec	13 ific date.	9 Is this co	orrect?	1	0	15
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CUST INSTALL YEAR>In what year did you install this CUSTOM LI	GHTING F	OUIPME	0 NT?	0	0	0	0	0	0	0	0	0	0
	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n CUST_INSTALL_MONTH> And in which Month. If you Don't Know t	he MONT	0 H could s	OU remer	nher the	SEASON	0	0	0	0	0	0	0	U
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <t12_1> Do you currently use T12 fluorescent lamps for any of your</t12_1>	lighting n	eeds? Th	ese woul	d be linea	or fluores	0 cent tubes	0 that are 1	0 L5 inches	in diame	eter or are	fatter/thic	ker than	other
linear fluorescent lamps.													
Yes No	12.35 67.78	8.05 70.92		2.20 81.26	23.04 59.19	18.99 63.47	0.00 30.57	2.93 77.60	7.95 82.51	28.83 55.42	17.24 61.25	21.01 46.55	6.41 82.43
Don't Know	19.87	21.04	19.46	16.54		17.54	69.43	19.47	9.55	15.74	21.51	32.44	11.16
n <t12_1a> Have you retrofitted any T12 Linear Fluorescent lighting sy</t12_1a>	544	268	276 ray effici	101 ent linear	fluoresco	34 ent lightin	n such at T	94 F8s or T5s	89 within t	he last ve	33 ar?	10	100
Yes	15.37	10.47	16.89	6.68	6.72	16.25	21.49	8.60	8.00	28.49	7.74	27.97	8.21
No Don't Know	64.51 20.12	70.77 18.76	62.57 20.54	77.62 15.70	88.16 5.12	72.23 11.52	9.08 69.43	73.02 18.38	87.62 4.37	62.21 9.30	91.50 0.76	26.71 45.32	86.04 5.75
n Boilt Kilow	404	190	214	56	29	26	3	75	62	36	26	10	79
<t12_1b> For what percent of the linear fluorescent lighting that you Your best estimate is fine.</t12_1b>	have retr	rofittedin	the last ye	ear did yo	u receive	rebates o	r other inc	centives fr	om your	r utility or	through a	utility pro	gram?
0 Percent	34.99	41.56	32.55	34.11	56.66	66.86	0.00	36.68	35.96	45.89	86.12	0.00	51.53
Between 0 and 15 Percent Between 30 and 45 Percent	16.31	6.61 0.30	19.91 0.00	0.69	0.00	16.70 0.00	23.64	0.00	9.37 0.00	0.00	0.66	46.30 0.00	0.00
Between 30 and 45 Percent Between 45 and 60 Percent	0.08	0.30	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00	0.00
Between 60 and 80 Percent	0.70	0.00		0.00	0.00	0.00	0.00	0.00	8.29	0.00	0.00	0.00	0.00
	0.74	1.89	0.31	1.98	3.59	4.06	0.00	0.00	0.00 43.16	0.68 25.82	2.26 0.51	0.00 53.70	0.00
Between 80 and 100 Percent 100 Percent	38.98	38.15	39.29	55.17	29.21	0.45	76.36	43.14					36.60
	38.98 8.13	38.15 11.23	39.29 6.98	8.05	10.53	11.93	0.00	18.16	3.23	27.61	10.45	0.00	11.87
100 Percent Don't Know	38.98 8.13 279	38.15 11.23 148	39.29 6.98 131	8.05 64					3.23 45	27.61 25	10.45 17		
100 Percent Don't Know n <t12_2> Do you carry an inventory of T12 fluorescent lamps to use Ves</t12_2>	38.98 8.13 279 when your 21.04	38.15 11.23 148 r existing 18.15	39.29 6.98 131 ones buri 21.90	8.05 64 n out? 8.56	10.53 18 32.88	11.93 19 42.69	0.00	18.16 44 3.45	11.72	25 49.18	8.96	0.00 2 30.29	11.87 41 2.81
100 Percent Don't Know (T12_2> Do you carry an inventory of T12 fluorescent lamps to use v Yes No	38.98 8.13 279 when your 21.04 70.55	38.15 11.23 148 r existing 18.15 61.87	39.29 6.98 131 ones buri 21.90 73.15	8.05 64 n out? 8.56 48.07	10.53 18 32.88 57.12	11.93 19 42.69 55.15	0.00 2 0.00 100.00	18.16 44 3.45 60.19	11.72 79.59	49.18 45.94	8.96 91.04	0.00 2 30.29 69.71	11.87 41 2.81 76.67
100 Percent Don't Know n <t12_2> Do you carry an inventory of T12 fluorescent lamps to use v Yes No Don't Know n</t12_2>	38.98 8.13 279 when your 21.04 70.55 8.41 144	38.15 11.23 148 r existing 18.15 61.87 19.98	39.29 6.98 131 ones buri 21.90 73.15 4.95	8.05 64 n out? 8.56	10.53 18 32.88 57.12	11.93 19 42.69	0.00	18.16 44 3.45	11.72	25 49.18	8.96	0.00 2 30.29	11.87 41 2.81
100 Percent Dent Know AT12_2> Do you carry an inventory of T12 fluorescent lamps to use v Yes N Dent Know AT12_2> How long do you estimate your inventory of T12 fluorescent	38.98 8.13 279 when your 21.04 70.55 8.41 144 nt lamps	38.15 11.23 148 r existing 18.15 61.87 19.98 70 will last?	39.29 6.98 131 ones burr 21.90 73.15 4.95 74	8.05 64 n out? 8.56 48.07 43.36 21	10.53 18 32.88 57.12 10.00	11.93 19 42.69 55.15 2.15	0.00 2 0.00 100.00 0.00 1	3.45 60.19 36.36 23	11.72 79.59 8.68 20	49.18 45.94 4.88 18	8.96 91.04 0.00 9	0.00 2 30.29 69.71 0.00 4	11.87 41 2.81 76.67 20.52 22
100 Percent Don't Know n <t12_2> Do you carry an inventory of T12 fluorescent lamps to use v Yes No Don't Know n</t12_2>	38.98 8.13 279 when your 21.04 70.55 8.41 144	38.15 11.23 148 r existing 18.15 61.87 19.98	39.29 6.98 131 ones bur 21.90 73.15 4.95 74	8.05 64 n out? 8.56 48.07 43.36	10.53 18 32.88 57.12 10.00	11.93 19 42.69 55.15 2.15	0.00 2 0.00 100.00	3.45 60.19 36.36	11.72 79.59 8.68	49.18 45.94 4.88	8.96 91.04 0.00	0.00 2 30.29 69.71 0.00	11.87 41 2.81 76.67 20.52
100 Percent Don't Know n <t12_2> Do you carry an inventory of T12 fluorescent lamps to use v Yes No Don't Know A <t12_2a> How long do you estimate your inventory of T12 fluoresce T3 to 6 moriths G months to 1 year 1 to 2 years</t12_2a></t12_2>	38.98 8.13 279 when your 21.04 70.55 8.41 144 nt lamps 1 6.82 34.36 0.46	38.15 11.23 148 r existing 18.15 61.87 19.98 70 will last? 26.00 56.13	39.29 6.98 131 ones burr 21.90 73.15 4.95 74 2.06 28.95 0.00	8.05 64 n out? 8.56 48.07 43.36 21 0.00 45.25 20.34	10.53 18 32.88 57.12 10.00 13 7.54 62.31	11.93 19 42.69 55.15 2.15 11 41.72 56.38 0.00	0.00 2 0.00 100.00 0.00 1 0.00 0.00 0.00	3.45 60.19 36.36 23 0.00 36.04 12.79	11.72 79.59 8.68 20 0.00 39.66 0.00	49.18 45.94 4.88 18 9.72 31.05 0.00	8.96 91.04 0.00 9 8.88 91.12 0.00	0.00 2 30.29 69.71 0.00 4 0.00 20.43 0.00	11.87 41 2.81 76.67 20.52 22 0.00 100.00
100 Percent Don't Know n <t12_2> Do you carry an inventory of T12 fluorescent lamps to use very Yes No Don't Know n <t12_2a> How long do you estimate your inventory of T12 fluoresce 3 to 6 months 6 months to 1 year</t12_2a></t12_2>	38.98 8.13 279 when your 21.04 70.55 8.41 144 nt lamps 1 6.82 34.36	38.15 11.23 148 r existing 18.15 61.87 19.98 70 will last? 26.00 56.13	39.29 6.98 131 ones burr 21.90 73.15 4.95 74 2.06 28.95 0.00 9.38	8.05 64 n out? 8.56 48.07 43.36 21	10.53 18 32.88 57.12 10.00 13 7.54 62.31	11.93 19 42.69 55.15 2.15 11 41.72 56.38	0.00 2 0.00 100.00 0.00 1	18.16 44 3.45 60.19 36.36 23 0.00 36.04	11.72 79.59 8.68 20 0.00 39.66	49.18 45.94 4.88 18 9.72 31.05	8.96 91.04 0.00 9 8.88 91.12	0.00 2 30.29 69.71 0.00 4 0.00 20.43	11.87 41 2.81 76.67 20.52 22 0.00 100.00
100 Percent Don't Know n <t12_2> Do you carry an inventory of T12 fluorescent lamps to use v No Don't Know n <t12_2a> How long do you estimate your inventory of T12 fluorescent 10 formstents 6 months to 1/years 1 to 2/years 1 to 5 years 2 to 3 years 3 to 5 years 5 to 10 years</t12_2a></t12_2>	38.98 8.13 279 when you 21.04 70.55 8.41 144 nt lamps 6.82 34.36 0.46 9.50 2.39 0.56	38.15 11.23 148 r existing 18.15 61.87 19.98 70 will last? 26.00 56.13 2.32 10.00 2.72 2.83	39.29 6.98 131 ones bur 21.90 73.15 4.95 74 2.06 28.95 0.00 9.38 2.31	8.05 64 n out? 8.56 48.07 43.36 21 0.00 45.25 20.34 0.00 34.41	10.53 18 32.88 57.12 10.00 73 7.54 62.31 0.00 30.15	11.93 19 42.69 55.15 2.15 11 41.72 56.38 0.00 0.00	0.00 2 100.00 0.00 7 0.00 0.00 0.00 0.00 0.00	18.16 44 3.45 60.19 36.36 23 0.00 36.04 12.79 0.00 0.00 51.17	11.72 79.59 8.68 20 0.00 39.66 0.00 0.00 60.34 0.00	9.72 31.05 0.00 0.00 0.00	8.96 91.04 0.00 9 8.88 91.12 0.00 0.00 0.00 0.00	0.00 2 30.29 69.71 0.00 4 0.00 20.43 0.00 0.00 0.00	11.87 41 2.81 76.67 20.52 22 0.00 100.00 0.00 0.00 0.00
100 Percent Don't Know No No Ont Know No Ont Know No Ont Know No Ont Know Ont Know Ont Know Ont Know Ont Know Ont Know T12_2a> How long do you estimate your inventory of T12 fluoresce S no the sort flow of the total of the tot	38.98 8.13 279 when your 21.04 70.55 8.41 144 nt lamps v 6.82 34.36 0.46 9.50 2.39	38.15 11.23 148 r existing 18.15 61.87 19.98 70 will last? 26.00 56.13 2.32 10.00 2.72	39.29 6.98 131 ones bur 21.90 73.15 4.95 74 2.06 28.95 0.00 9.38 2.31	8.05 64 n out? 8.56 48.07 43.36 21 0.00 45.25 20.34 0.00 34.41	10.53 18 32.88 57.12 10.00 13 7.54 62.31 0.00 30.15	11.93 19 42.69 55.15 2.15 11 41.72 56.38 0.00 1.90	0.00 2 0.00 100.00 0.00 1 0.00 0.00 0.00	18.16 44 3.45 60.19 36.36 23 0.00 36.04 12.79 0.00 0.00	11.72 79.59 8.68 20 0.00 39.66 0.00 0.00 60.34	9.72 31.05 0.00 59.23 0.00	8.96 91.04 0.00 9 8.88 91.12 0.00 0.00 0.00	0.00 2 30.29 69.71 0.00 4 0.00 20.43 0.00 0.00 0.00	11.87 41 2.81 76.67 20.52 22 0.00 100.00 0.00 0.00
100 Percent Don't Know A T12_2">T0 you carry an inventory of T12 fluorescent lamps to use v Yes N Don't Know Don't Know A T2_2">T2_	38.98 8.13 8.13 9.10 9.10 9.10 9.10 9.10 9.10 9.10 9.10	38.15 11.23 148 r existing 18.15 61.87 19.98 70 will last? 26.00 56.13 2.32 10.00 2.72 2.83 0.00 155 at has ph.	39.29 6.98 731 ones burr 21.90 73.15 4.95 74 2.06 28.95 0.00 9.38 2.31 0.00 57.30	8.05 64 n out? 8.56 48.07 43.36 21 0.00 45.25 20.34 0.00 34.41 0.00 0.00	10.53 18 32.88 57.12 10.00 13 7.54 62.31 0.00 30.15 0.00 0.00 0.00	11.93 19 42.69 55.15 2.15 11 41.72 41.72 56.38 0.00 1.90 0.00 0.00 0.00 4	0.00 2 100.00 100.00 0.00 1 0.00 0.00 0.	18.16 44 3.45 60.19 36.36 23 0.00 12.79 0.00 0.00 51.17 0.00 3 escent lar	11.72 79.59 8.68 20 0.00 39.66 0.00 0.00 60.34 0.00 0.00 4	9.72 31.05 0.00 0.00 0.00 0.00 5.5	8.96 91.04 0.00 9 8.88 91.12 0.00 0.00 0.00 0.00 0.00 0.00	0.00 2 30.29 69.71 0.00 4 0.00 20.43 0.00 0.00 0.00 0.00 79.57 2	11.87 47 2.81 76.67 20.52 22 0.00 100.00 0.00 0.00 0.00 0.00
100 Percent Don't Know n <t12_2> Do you carry an inventory of T12 fluorescent lamps to use vote to the self-self-self-self-self-self-self-self-</t12_2>	38.98 8.13 279 when your 21.04 70.55 8.41 144 nt lamps 0.46 9.50 2.39 2.39 4.59 45.90 30	38.15 11.23 148 r existing 18.15 61.87 19.98 70 will last? 2.32 10.00 2.72 2.83 0.000	39.29 6.98 731 ones burn 21.90 73.15 4.95 74 2.06 28.95 0.00 9.38 2.31 0.00 57.30 57.30 40.08	8.05 64 n out? 8.56 48.07 43.36 21 0.00 45.25 20.34 0.00 34.41 0.00 0.00	10.53 18 32.88 57.12 10.00 13 7.54 62.31 0.00 30.15 0.00 0.00 0.00	11.93 19 42.69 55.15 2.15 17 41.72 56.38 0.00 1.90 0.00 0.00 0.00 0.00 4	0.00 2 100.00 100.00 0.00 0.00 0.00 0.00	18.16 44 3.45 60.19 36.36 23 0.00 12.79 0.00 0.00 51.17 0.00 3	11.72 79.59 8.68 20 0.00 39.66 0.00 0.00 60.34 0.00 0.00 4	25 49.18 45.94 4.88 78 9.72 31.05 0.00 0.00 0.00 0.00 5 9.31	8.96 91.04 0.00 9 8.88 91.12 0.00 0.00 0.00 0.00 0.00 3	0.00 2 30.29 69.71 0.00 4 0.00 20.43 0.00 0.00 0.00 79.57	11.87 41 2.81 76.67 20.52 22 0.00 100.00 0.00 0.00 0.00 0.00
100 Percent Don't Know n <t12_2> Do you carry an inventory of T12 fluorescent lamps to use v Yes No Don't Know A <t12_2a> How long do you estimate your inventory of T12 fluoresce T10 to years 1 to 2 years 2 to 3 years 3 to 5 years 5 to 10 years 99 n <t12_3> Are you aware of the new law that came into effect in July Yes</t12_3></t12_2a></t12_2>	38.98 8.13 279 when you 21.04 70.55 8.411 144 nt lamps 0.46 9.50 45.90 0.56 45.90 30 05 2012 thi 35.85 6.388 0.27	38.15 11.23 148 r existing 18.15 61.87 19.98 70 will last? 2.600 56.13 2.32 10.00 2.72 2.72 2.83 0.00 15 at has ph. 22.47 6.79 0.75	39.29 6.98 731 ones bur 21.90 73.15 4.95 74 2.06 28.95 0.00 9.38 2.31 0.00 57.30 57.30 40.08 40.08 60.12	8.05 64 n out? 8.56 48.07 43.36 21 0.00 45.25 20.34 0.00 34.41 0.00 4 45 40 40 41 41 41 41 41 41 41 41 41 41 41 41 41	10.53 18 32.88 57.12 10.00 13 7.54 62.31 0.00 0.00 0.00 4 ction of n 10.12 9.88 0.00	11.93 19 42.69 55.15 2.15 11 41.72 56.38 0.00 0.00 0.00 4.46 95.54	0.00 2 0.00 100.00 0.00 0.00 0.00 0.00 0	18.16 44 3.45 60.19 36.36 23 0.00 36.04 12.79 0.00 0.00 51.17 0.00 3 escent lar 28.26 69.09 2.65	11.72 79.59 8.68 20 0.00 39.66 0.00 0.00 60.34 0.00 0.00 4 mps? 45.27 54.73 0.00	25 49.18 45.94 4.88 78 9.72 31.05 0.00 0.00 0.00 0.00 5 9.31 90.69 0.00	8.96 91.04 0.00 9 8.88 91.12 0.00 0.00 0.00 0.00 3 28.81 71.19	0.00 2 30.29 69.71 0.00 4 0.00 20.43 0.00 0.00 0.00 0.00 79.57 2 50.17 49.83 0.00	11.87 41 2.81 76.67 20.52 22 0.00 0.00 0.00 0.00 0.00 0.00
100 Percent Don't Know	38.98 8.13 279 when your 21.04 70.55 8.411 144 nt lamps 6.82 34.36 0.46 9.50 45.90 0.56 45.90 35.85 63.88 0.27	38.15 11.23 148 r existing 18.15 61.87 19.98 70 will last? 26.00 56.13 2.32 10.00 2.72 2.83 0.00 15 at has ph. 22.47 76.79 16.79	39.29 6.98 737 ones bur 21.90 73.15 4.95 74 2.06 28.95 0.00 9.38 2.31 0.00 57.30 40.08 59.80 0.12	8.05 64 n out? 8.56 48.07 43.36 27 0.00 45.25 20.34 0.00 34.41 0.00 4 4 4the produ 64.51 0.00 68	7.54 62.31 0.00 0.00 0.00 0.00 4 ction of n 10.12 89.88 0.00 0.22	11.93 19 42.69 55.15 2.15 71 41.72 56.38 0.00 0.00 0.00 0.00 4 4.46 95.54 0.00	0.00 2 0.00 100.00 0.00 0.00 0.00 0.00 0	18.16 44 3.45 60.19 36.36 23 0.00 12.79 0.00 0.00 51.17 0.00 3 escent language 28.26 69.09 2.65	11.72 79.59 8.68 20 0.00 39.66 0.00 0.00 60.34 0.00 0.00 4 mps? 45.27 54.73	25 49.18 45.94 4.88 78 9.72 31.05 0.00 59.23 0.00 0.00 0.00 5.923 9.31 9.69 0.00 28	8.96 91.04 0.00 9 8.88 91.12 0.00 0.00 0.00 0.00 0.00 3 28.81 71.19 0.00	0.00 2 30.29 69.71 0.00 4 0.00 20.43 0.00 0.00 0.00 79.57 2 50.17 49.83 0.00 5	11.87 41 2.81 76.67 20.52 22 0.00 0.00 0.00 0.00 0.00 0.00
100 Percent Don't Know 712_2> Do you carry an inventory of T12 fluorescent lamps to use ves No Don't Know Pon't Know Active Service S	38.98 8.13 279 Nhen your 21.04 70.55 8.41 744 nt lamps 6.82 34.36 9.50 2.39 0.56 45.90 30 f 2012 th. 35.85 63.88 0.27 316	38.15 11.23 1748 r existing 18.15 61.87 19.98 70 will last? 26.00 56.13 2.32 2.03 0.00 2.72 2.83 0.00 15 at has ph. 22.47 76.79 0.756 160 ndate that	39.29 6.98 731 ones burn 21.90 73.15 4.95 74 2.06 28.95 0.00 9.38 2.31 0.00 57.30 155 ased out 40.08 59.80 0.12 156 t prohibits	8.05 64 n out? 8.56 48.07 43.36 27 0.00 45.25 20.34 0.00 0.00 34.41 0.00 4 4 4 the produ 35.49 68 8 s the prod	10.53 18 32.88 57.12 10.00 13 7.54 62.31 0.00 0.00 0.00 0.00 4 ction of n 10.12 89.88 0.80 0.22 luction of	11.93 19 42.69 55.15 2.15 77 41.72 56.38 0.00 0.00 0.00 0.00 0.00 4 4.46 95.54 95.54 96.54 96.54 97.54	0.00 2 0.00 100.00 0.00 7 0.00 0.00 0.00 0.00	18.16 44 3.45 60.19 36.36 23 0.00 36.04 12.79 0.00 51.17 0.00 3 rescent lar 28.26 69.09 2.65 48 scent ligh	45 11.72 79.59 8.68 20 0.00 39.66 0.00 0.00 0.00 4 100 4 100 54 110 110 110 110 110 110 110 11	9,72 31,05 0,00 0,00 0,00 0,00 0,00 0,00 0,00	8.96 91.04 0.00 9 8.88 91.12 0.00 0.00 0.00 0.00 0.00 0.00 71.19 0.00 19 9	0.00 2 30.29 69.71 0.00 4 0.00 20.43 0.00 0.00 0.00 79.57 2 50.17 49.83 0.00 5	11.87 41 2.81 76.67 20.52 22 0.00 0.00 0.00 0.00 0.00 0.00
100 Percent Don't Know (T12_2> Do you carry an inventory of T12 fluorescent lamps to use very Yes No Don't Know Port Know On the Company of T12 fluorescent lamps to use very Stop of the Company of T12 fluorescent at the Company of T12 fluoresc	38.98 8.13 279 When you 21.04 70.55 8.41 144 nt lamps 6.82 34.36 9.50 2.39 0.56 45.90 30 67 2012 thi 35.85 63.88 0.27 316 used a mai	38.15 11.23 1748 r existing 18.15 61.87 19.98 70 will last? 26.00 56.13 2.32 10.00 2.72 2.83 0.00 2.76 76.79 76.79 0.756 760 0.00 0.00 0.00 0.00 0.00 0.00 0.00	39.29 6.98 737 ones bur 21.90 73.15 4.95 74 2.06 28.95 0.00 9.38 2.31 0.00 57.30 59.80 0.122 756 t prohibits	8.05 64 nout? 8.56 48.07 43.36 27 0.000 45.25 20.34 0.00 0.00 4.00 35.49 64.51 0.00 68 a the produ	10.53 18 32.88 57.12 10.00 133 7.54 62.311 0.00 30.15 0.00 0.00 0.00 4 ction of n 10.12 89.88 0.00 0.22 luction of	11.93 19 42.69 55.15 2.15 77 41.72 56.38 0.00 0.00 0.00 0.00 0.00 4.46 95.54 0.00 19 19 19 19 10 10 10 10 10 10 10 10 10 10	0.00 2 0.00 100.00 0.00 0.00 0.00 0.00 0	18.16 44 3.45 60.19 36.36 23 0.00 36.04 12.79 0.00 0.00 51.17 0.00 3 28.26 69.09 2.65 48 scent light	11.72 79.59 8.68 20 0.00 39.66 0.00 60.34 0.00 4 	9.72 31.05 0.00 59.23 0.00 0.00 0.00 59.23 0.00 0.00 0.00 28 18.79	8.96 91.04 0.00 9 8.88 91.12 0.00 0.00 0.00 0.00 0.00 1.00 0.00 0	0.00 2 30.29 69.71 0.00 4 0.00 20.43 0.00 0.00 0.00 79.57 2 50.17 49.83 0.00 5	11.87 47 47 20.52 22 0.00 100.00 0.00 0.00 0.00 0.00 33.82 65.76 0.43 49 duction
100 Percent Don't Know n <t12_2> Do you carry an inventory of T12 fluorescent lamps to use v Ves No Don't Know n <t12_2a> How long do you estimate your inventory of T12 fluoresce T10 to 2 years 10 to 2 years 10 to 3 years 10 to 5 years 5 to 10 years 5 to 10 years 99 <t12_3> Are you aware of the new law that came into effect in July Yes No Don't Know n <t12_4> You may have heard that the Department of Energy has sis of many T12 lamps has been phased out. Doe this sound familiar?</t12_4></t12_3></t12_2a></t12_2>	38.98 8.13 279 Nhen your 21.04 70.55 8.41 744 nt lamps 6.82 34.36 9.50 2.39 0.56 45.90 30 f 2012 th. 35.85 63.88 0.27 316	38.15 11.23 1748 r existing 18.15 61.87 19.98 70 will last? 26.00 56.13 2.32 2.03 0.00 2.72 2.83 0.00 2.76 76.79 76.79 0.75 76.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	39.29 6.98 737 ones burn 21.90 73.15 4.95 74 2.06 2.05 0.00 9.38 2.31 0.00 57.30 155 ased out 40.08 59.80 0.12 756 t prohibits	8.05 64 n out? 8.56 48.07 43.36 27 0.00 45.25 20.34 0.00 0.00 34.41 0.00 4 4 4 the produ 35.49 68 8 s the prod	10.53 18 32.88 57.12 10.00 13 7.54 62.31 0.00 0.00 0.00 0.00 4 ction of n 10.12 89.88 0.80 0.22 luction of	11.93 19 42.69 55.15 2.15 77 41.72 56.38 0.00 0.00 0.00 0.00 0.00 4 4.46 95.54 95.54 96.54 96.54 97.54	0.00 2 0.00 100.00 0.00 7 0.00 0.00 0.00 0.00	18.16 44 3.45 60.19 36.36 23 0.00 36.04 12.79 0.00 51.17 0.00 3 rescent lar 28.26 69.09 2.65 48 scent ligh	45 11.72 79.59 8.68 20 0.00 39.66 0.00 0.00 0.00 4 100 4 100 54 110 110 110 110 110 110 110 11	9,72 31,05 0,00 0,00 0,00 0,00 0,00 0,00 0,00	8.96 91.04 0.00 9 8.88 91.12 0.00 0.00 0.00 0.00 0.00 0.00 71.19 0.00 19 9	0.00 2 30.29 69.71 0.00 4 20.43 0.00 0.00 0.00 79.57 50.17 49.83 0.00 5,4 the production	11.87 47 2.81 76.67 20.52 22 0.00 100.00 0.00 0.00 0.00 1 33.82 65.76 0.43 49 duction

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		(%)(s)	(%)(s	ı(s) nall(%)	LED Lamp(s) Restaurant - Fas: Food(%)	(s) t - Sit	r(s) rge(%)	(s) nall(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fas Food(%)	ctor(s) t - Sit	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
		ED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small	LED Lamp(s) Restaurant - Food(%)	LED Lamp(s) Restaurant - Down(%)	LED Lamp(s) Retail - Large(%	LED Lamp(s) Retail - Small(%)	Refle ce - Sn	LED Reflector(s) Restaurant - Fas Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	Refle	Refle ail - Sn
CTGC 5: How did you have no away of the law offseting the words	¥			ğ EE	Res Foo	LED Res	LED	LED	Ğ E E	Res Foo	LED Resi Dow	LED Reta	LED Reta
<t12_5> How did you become aware of the law affecting the production and sighting retailer/vendor</t12_5>	30.16	22.04	31.70	25.47	0.00	0.00	100.00	13.91	5.88	0.00	0.37	68.47	0.29
Utility ACCOUNT representative Utility PROGRAM representative	1.29 7.33	0.00	1.53 6.10	0.00 2.10	0.00	0.00 73.75	0.00	0.00 0.74	12.02 11.22	0.00	0.00 27.50	0.00	0.00 6.89
Utility or program website	3.89	0.00	4.63	0.00	0.00	0.00	0.00	0.00	8.34	0.00	0.00	0.00	11.94
Contractor Lighting manufacturer	6.05 12.72	4.86 0.00	6.27 15.14	6.01 0.00	2.63 0.00	0.00	0.00	7.53 0.00	2.91 0.00	32.89	0.00	0.00 31.53	16.68
Energy services company Newspaper article	0.00 10.86	0.00 28.14	0.00 7.57	0.00 37.79	0.00	0.00	0.00	0.00 41.66	0.00	0.00	0.00	0.00	0.00
Radio	3.13	2.14	3.32	0.00	0.00	0.00	0.00	6.91	0.00	0.00	0.00	0.00	11.10
Internet Trade publication	4.84 0.27	3.27	5.14 0.00	5.18	0.00	0.00	0.00	3.81 5.36	0.95	0.00	0.00	0.00	16.79
Conference	0.91	0.94	0.91	2.33	0.00	0.00	0.00	0.00	7.14	0.00	0.00	0.00	0.00
Word of mouth Result of an audit	9.59	2.08	11.02	3.99	0.00	0.00	0.00	1.53 0.00	5.90	0.00	1.12 0.00	0.00	33.99
Record how they heard about	6.97	7.99	6.78	12.57	0.00	5.09	0.00	6.63	0.71	6.68	68.33	0.00	0.00
Refused Don't Know	0.00 3.88	0.00 7.99	0.00 3.09	0.00 3.52	0.00 97.37	0.00 15.26	0.00	0.00	0.00	0.00 26.55	0.00 2.47	0.00	6.89
n	113	59	54	31	2	4	1	20	23	5	6	2	17
<t12_6> Did you choose to replace your T12 lamps to higher efficien Yes</t12_6>	62.62	fluoresce 31.90	nt lighting 70.03	24.35	of the T1 2.63	0.00	out? 100.00	29.50	9.42	93.95	87.39	100.00	56.69
No	37.38 86	68.10 48	29.97 38	75.65 28	97.37	100.00	0.00	70.50 15	90.58	6.05	12.61	0.00	43.31
<t12_7> Do you think the T12 phase out has had an influence on you</t12_7>	ır decisio	ns to retro	ofit your T	12 syster	ns earlier	than you	otherwise	would h	ave?	2	3	1	13
Yes No	97.00 3.00	99.59 0.41	96.71 3.29	100.00	0.00	0.00	100.00	100.00	100.00	0.00	75.34 24.66	100.00	95.42 4.58
n	29	13	3.29	7	100.00	0.00	0.00	4	4	100.00	24.66	1	4.56
<t12_8> How much earlier did you retrofit your T12 lighting systems 6 months earlier than they would have</t12_8>	due to th	e T12 pha	se out? 3.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.39
between 6 months and 1 year earlier	5.79	33.33	2.68	6.45	0.00	0.00	0.00	95.41	38.22	0.00	100.00	0.00	6.04
1 to 2 years earlier 2 to 4 years earlier	80.02 1.76	62.57 0.00	82.00 1.96	82.67 0.00	0.00	0.00	100.00	4.59 0.00	0.00	0.00	0.00	100.00	35.96 8.30
4 to 7 years earlier	7.69	0.00	8.56	0.00	0.00	0.00	0.00	0.00	25.13	0.00	0.00	0.00	33.42
Other Don't Know	0.47	0.71	0.44	1.89	0.00	0.00	0.00	0.00	8.89 27.77	0.00	0.00	0.00	0.89
n	25	12	13	7	0	0	1	4	4	0	1	1	7
<t12_10> On a scale of 0 to 10 where 10 means Completely Influenti system?</t12_10>	al and 0 n	neans not	at all influ	uential, h	ow influer	ncial was	the T12 pl	nase out	on your d	ecision to	retrofit y	our T12 li	ghting
5	77.56	29.95	82.95	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	100.00	38.90
6 7	0.64	6.25	0.00	16.61 3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	6.13	2.43	6.55	6.45	0.00	0.00	0.00	0.00	63.35	0.00	0.00	0.00	20.75
10 Completely Influential	7.10 5.27	0.00	7.91 2.36	0.00 73.17	0.00	0.00	0.00	0.00 10.45	0.00 27.77	0.00	0.00	0.00	33.42 6.93
Zero- Not at All Influential	2.95 25	29.00 12	0.00	0.00	0.00	0.00	0.00	89.55	0.00	0.00	0.00	0.00	0.00
<t12_20> Because of the T12 phase out, have you thought about rep</t12_20>							ianau lina	7			,	,	
			ear nuore	scent ligi	nting to hi	gher effic	hency line	ar fluores	scent lign	ting?			
Yes	90.87	87.00	91.55	41.98	100.00	100.00	0.00	64.21	31.14	100.00	100.00	100.00	100.00
No n	90.87 9.13 24	87.00 13.00 12	91.55 8.45 12	41.98 58.02 6	0.00 1	0.00 1	0.00 0.00	64.21 35.79 3	31.14 68.86 5	100.00 0.00 2	0.00	0.00	0.00
No n <t12_21> On a scale of 0 to 10 where 10 means Extremely Likely an</t12_21>	90.87 9.13 24	87.00 13.00 12	91.55 8.45 12	41.98 58.02 6	0.00 1	0.00 1	0.00 0.00	64.21 35.79 3	31.14 68.86 5	100.00 0.00 2	0.00	0.00	0.00
No. 7 No. 7 No. 8 No. 9 No. 10 No. 10 No. 10 No. 10 No. 11 No. 11 No. 12	90.87 9.13 24 d 0 means	87.00 13.00 12 8 Not at A	91.55 8.45 12 II Likely, h	41.98 58.02 6 iow likely	100.00 0.00 1 are you t	100.00 0.00 1 to replace	0.00 0.00 0 your T12	64.21 35.79 3 fixtures v	31.14 68.86 5 with a ligi	100.00 0.00 2 nting syst	0.00 1 em that is	0.00 1 the minim	0.00 2 num
No <112_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 3	90.87 9.13 24 d 0 means 3.32 0.73	87.00 13.00 12 8 Not at A 20.72 2.29	91.55 8.45 12 II Likely, h	41.98 58.02 6 low likely 0.00 14.85	100.00 0.00 1 are you t	0.00 0.00 1 0.00 0.00 0.00	0.00 0.00 0 your T12 0.00 0.00	64.21 35.79 3 fixtures v 35.79 0.00	31.14 68.86 5 with a ligh 0.00 3.70	100.00 0.00 2 nting syst 5.88 0.00	0.00 1 em that is 0.00 0.00	0.00 f the minim 0.00 0.00	0.00 2 num 0.00 0.00
Noo n <t12_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 3 5 7</t12_21>	90.87 9.13 24 d 0 means 3.32 0.73 49.53 11.39	87.00 13.00 12 8 Not at A 20.72 2.29 0.00 5.11	91.55 8.45 12 Il Likely, h 0.24 0.45 58.30 12.51	41.98 58.02 6 ow likely 0.00 14.85 0.00 33.04	100.00 0.00 1 are you t 100.00 0.00 0.00	0.00 0.00 1 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 your T12 0.00 0.00 0.00 0.00	64.21 35.79 3 fixtures v 35.79 0.00 0.00 0.00	31.14 68.86 5 with a ligi 0.00 3.70 0.00 0.00	100.00 0.00 2 nting syst 5.88 0.00 0.00 0.00	0.00 f em that is 0.00 0.00 0.00	0.00 1 the minim 0.00 0.00 100.00 0.00	0.00 2 num 0.00 0.00 0.00 87.26
No <112_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 3 5 7 8	90.87 9.13 24 d 0 means 3.32 0.73 49.53 11.39 17.54	87.00 13.00 12 8 Not at A 20.72 2.29 0.00 5.11	91.55 8.45 12 Il Likely, h 0.24 0.45 58.30 12.51 10.75	41.98 58.02 6 10 w likely 0.00 14.85 0.00 33.04 0.00	100.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00	0.00 0.00 1 0.00 0.00 0.00 0.00 0.00 100.00	0.00 0.00 0 your T12 0.00 0.00 0.00 0.00	64.21 35.79 3 fixtures v 35.79 0.00 0.00 0.00	31.14 68.86 5 with a ligl 0.00 3.70 0.00 0.00 0.00	100.00 0.00 2 nting syst 5.88 0.00 0.00 0.00 0.00	0.00 f em that is 0.00 0.00 0.00 0.00 100.00	0.00 1 the minim 0.00 0.00 100.00 0.00	0.00 2 num 0.00 0.00 0.00 87.26
Noo n <t12_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 3 5 7 7 8 10 Extremely Likely Zero - Not at All Likely</t12_21>	90.87 9.13 24 d 0 means 3.32 0.73 49.53 11.39 17.54 7.18 10.31	87.00 13.00 12 8 Not at A 20.72 2.29 0.00 5.11 55.86 14.45	91.55 8.45 12 Il Likely, h 0.24 0.45 58.30 12.51 10.75 5.89 11.86	41.98 58.02 6 6 6 10w likely 0.00 14.85 0.00 33.04 0.00 41.98 10.12	100.00 0.00 1 are you t 100.00 0.00 0.00	0.00 0.00 1 0.00 0.00 0.00 0.00 0.00 100.00 0.00	0.00 0.00 0 1 your T12 0.00 0.00 0.00 0.00 0.00	64.21 35.79 3 fixtures v 35.79 0.00 0.00 0.00 0.00 64.21	31.14 68.86 5 with a ligl 0.00 3.70 0.00 0.00 31.14 65.15	100.00 0.00 2 nting syst 5.88 0.00 0.00 0.00 0.00 94.12	0.00 f em that is 0.00 0.00 0.00 100.00 0.00	0.00 1 the minim 0.00 0.00 100.00 0.00 0.00 0.00 0.00	0.00 2 num 0.00 0.00 0.00 87.26 0.00 12.74
Noo n <t12_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 3 5 7 7 8 8 10 Extremely Likely Zero - Not at All Likely Zero - Not at All Likely Xero - Not at All Likel</t12_21>	90.87 9.13 24 d 0 means 3.32 0.73 49.53 17.54 7.18 10.31	87.00 13.00 12 8 Not at A 20.72 2.29 0.00 5.11 55.86 14.45 1.56	91.55 8.45 12 Il Likely, h 0.24 0.45 58.30 12.51 10.75 5.89 11.86	41.98 58.02 6 10w likely 0.00 14.85 0.00 33.04 0.00 41.98 10.12	100.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00 0.00 0.00 1	0.00 0.00 1 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0 vyour T12 0.00 0.00 0.00 0.00 0.00 0.00	64.21 35.79 3 fixtures v 35.79 0.00 0.00 0.00 0.00 64.21 0.00 3	31.14 68.86 5 with a light 0.00 3.70 0.00 0.00 0.00 31.14 65.15	100.00 0.00 2 nting syst 5.88 0.00 0.00 0.00 0.00 94.12 2	0.00 f em that is 0.00 0.00 0.00 100.00 0.00	0.00 7 the minim 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00	0.00 2 num 0.00 0.00 0.00 87.26 0.00 12.74 0.00
No. 7 <t12_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 3 6 7 8 10 Extremely Likely Zero - Not at All Likely Zero - Not at All Likely 4 <t12_22> On a scale of 0 to 10 where 10 means Extremely Likely an iminimum allowable level of efficiency within the next year as a re</t12_22></t12_21>	90.87 9.13 24 d 0 means 3.32 0.73 49.53 11.39 17.54 7.18 10.31 24 d 0 means	87.00 13.00 12 S Not at A 20.72 2.29 0.00 5.11 55.86 14.45 1.56 12 S Not at A	91.55 8.45 12 II Likely, h 0.24 0.45 58.30 12.51 10.75 5.89 11.86 12 II Likely, h	41.98 58.02 6 0.00 14.85 0.00 33.04 0.00 41.98 10.12 6 tow likely	100.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00 0.00 0.00 1 are you t	100.00 0.00 1 0 replace 0.00 0.00 0.00 0.00 100.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 your T12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	64.21 35.79 3 fixtures v 35.79 0.00 0.00 0.00 0.00 64.21 0.00 3	31.14 68.86 5 with a light 0.00 3.70 0.00 0.00 0.00 31.14 65.15 5	100.00 0.00 2 nting syst 5.88 0.00 0.00 0.00 0.00 94.12 2 nting syst	0.00 1 em that is 0.00 0.00 0.00 100.00 0.00 0.00 100.00 0.00 0.00	0.00 1 the minim 0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 better tha	0.00 2 num 0.00 0.00 0.00 87.26 0.00 12.74 0.00 2
No. 7 <t12_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 1 Not at All Likely 2 Note of the transport of</t12_21>	90.87 9.13 24 d 0 means 3.32 0.73 49.53 11.59 17.54 7.18 10.31 24 d 0 means	87.00 13.00 13.00 12 8 Not at A 20.72 2.29 0.00 5.11 55.86 14.45 1.56 22 8 Not at A	91.55 8.45 12 II Likely, h 0.24 0.45 58.30 12.51 10.75 5.89 11.86 12 II Likely, h	41.98 58.02 6 0.00 likely 0.00 14.85 0.00 33.04 0.00 41.98 10.12 6 iow likely 0.00 14.85	100.00 0.00 1 are yout 100.00 0.00 0.00 0.00 0.00 0.00 1 are yout 100.00 1 0.00 0.00 0.00 0.00 0.00 0.00	100.00 0.00 1 0 replace 0.00 0.00 0.00 0.00 0.00 100.00 0.00 100.00 0 replace	0.00 0.00 0 your T12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	64.21 35.79 3 ffixtures v 35.79 0.00 0.00 0.00 64.21 0.00 3 ffixtures v	31.14 68.86 5 0.00 3.70 0.00 0.00 31.14 65.15 5 with a light	100.00 0.00 2 1ting syst 5.88 0.00 0.00 0.00 0.00 94.12 2 1ting syst 5.88	0.00 1 em that is 0.00 0.00 0.00 100.00 0.00 100.00 0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 1 the minim 0.00 0.00 100.00 0.00 0.00 0.00 1 better the	0.00 2 num 0.00 0.00 87.26 0.00 12.74 0.00 2 an the
No or A scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the standard of	90.87 9.13 24 d 0 means 3.32 0.73 49.53 11.39 17.54 7.18 10.31 24 d 0 means 1.39 1	87.000 13.00 12 s Not at A 20.72 2.29 0.000 5.11 55.86 14.45 122 s Not at A	91.55 8.45 12 II Likely, h 0.24 0.45 58.30 12.51 10.75 5.89 11.86 12 II Likely, h 0.24 0.45 1.71	41.98 58.02 6 0.00 likely 0.00 14.85 0.00 41.98 10.12 6 iow likely 0.00 41.98 15.18	100.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	100.00 0.00 1 o replace 0.00 0.00 0.00 0.00 100.00 0.00 0.00 0	0.00 0.00 0 your T12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	64.21 35.79 3 fixtures v 35.79 0.00 0.00 0.00 64.21 0.00 3 fixtures v 35.79	31.14 68.86 5 with a light 0.00 3.70 0.00 0.00 31.14 65.15 5 with a light 0.00 3.70	100.00 0.00 2 ting syst 5.88 0.00 0.00 0.00 0.00 94.12 2 ting syst 5.88 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 7 em that is 0.00 0.00 0.00 0.00 100.00 0.00 7 em that is	0.00 1 the minim 0.00 0.00 100.00 0.00 0.00 0.00 1 better tha	0.00 2 num 0.00 0.00 87.22 0.00 12.74 0.00 2 an the 0.00 0.00
Not of All Likely a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 1 Not at All Likely 2 Revenue 1 Not at All Likely 2 Not at All Likely 1 Not at All Likely 3 Not at All Likely 4 No	90.87 9.13 24 d 0 means 3.322 0.73 49.53 11.39 17.54 7.18 10.31 24 d 0 means 3.32 0.73 1.81	87.00 13.00 12.07 12.07 12.07 12.07 15.11 15.86 12.07	91.55 8.45 72 II Likely, h 0.24 58.30 12.51 10.75 5.89 11.86 72 II Likely, h 0.24 0.45 1.71 14.34 69.05	41.98 58.02 6 ow likely 0.00 14.85 0.00 33.04 0.00 41.98 10.12 6 ow likely 0.00 14.85 15.18 0.00 0.00	100.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	100.00 0.00 0.00 1 o replace 0.00 0.00 0.00 0.00 100.00 0.00 0.00 0	0.00 0.00 0 your T12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	64.21 35.79 3 fixtures v 35.79 0.00 0.00 0.00 64.21 0.00 3 fixtures v 35.79 0.00 0.00 4.21 0.00 3 4.21 0.00 0.00 0.00 4.21 0.00	31.14 68.86 5 with a light 0.00 3.70 0.00 0.00 0.00 3.114 65.15 5 with a light 0.00 3.70 0.00 0.00 0.00 0.00 0.00	100.00 0.00 2 titing syst 5.88 0.00 0.00 0.00 0.00 94.12 2 titing syst 5.88 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 1 em that is 0.00 0.00 0.00 100.00 0.00 7 em that is 0.00 0.00 0.00 0.00 100.00 0.00 100.00 0.00 100.00 0.00 100.00 0.00 100.00 0.00	0.00 1 the minim 0.00 100.00 0.00 0.00 0.00 0.00 1 the minim 0.00 0.	0.00 2 num 0.00 0.00 87.26 0.00 12.74 0.00 2 an the 0.00 0.00 10.00 10.00 0.00
No. 7 <t12_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at Al Likely 1 Not at Al Likely 2 Not at Al Likely 2 Referency Likely 3 Not at Al Likely 4 Referency Likely an minimum allowable level of efficiency within the next year as a re 1 Not at Al Likely 3 September 1 Not at Al Likely 4 Not at Al Likely 5 Not at Al Likely 6 Not at Al Likely 7 Not at Al Likely 8 Not at Al Likely 9 Not at Al Likely 1 Not at Al Lik</t12_21>	90.87 9.13 24 d 0 means 3.32 0.73 49.53 11.39 10.31 24 d 0 means 12.44 10.31 24 10.31 24 10.31 24 10.73 10.81	87.00 13.00 12.07 8 Not at A 20.72 2.29 0.00 5.11 14.45 1.56 12 8 Not at A 20.72 2.29 2.35 5.22 5.86 6.45	91.55 8.45 12 II Likely, h 0.24 0.45 58.30 12.51 10.75 5.89 11.86 12 II Likely, h 0.24 0.45 1.71 14.34 69.05 4.06	41.98 58.02 6 ow likely 0.00 14.85 0.00 33.04 0.00 41.98 10.12 6 ow likely 0.00 14.85 15.18 0.00 36.92	100.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	100.00 0.00 7 o replace 0.00 0.00 0.00 0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 your T12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	64.21 35.79 3 fixtures v 35.79 0.00 0.00 0.00 64.21 0.00 3 fixtures v 35.79 0.00 0.00 17.89	31.14 68.86 5 with a light 0.00 3.70 0.00 0.00 0.00 31.14 65.15 5 with a light 0.00 3.70 13.94 0.00 31.14	100.00 0.00 2 titing syst 5.88 0.00 0.00 0.00 0.00 0.00 94.12 2 titing syst 5.88 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 f em that is 0.00 0.00 0.00 100.00 f em that is 0.00 0.00 0.00 0.00 0.00 100.00 0.00	0.00 1 the minim 0.00 100.00 100.00 0.00 0.00 0.00 1 better tha 0.00 0.00 0.00 0.00 1 better tha	0.00 2 num 0.00 0.00 87.26 0.00 12.7 0.00 2 an the 0.00 0.00 0.00 0.00 0.00 0.00 0.00
No or A scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 1 Not at All Likely 1 Not at All Likely 2 To - Not at All Likely 1 Not at All Likely 2 To - Not at All Likely 2 To - Not at All Likely 1 Not at All Likely 1 Not at All Likely 3 To - Not at All Likely 1 Not at All Likely 3 To - Not at All Likely 4 To - Not at All Likely 5 To - Not at All Likely 2 Likely 4 Likely 2 Likely 4 Likely 4 Likely 4 Likely 5 Likely 5 Likely 5 Likely 5 Likely 5 Likely 6 Likely 6 Likely 7 Likely 8 Like	90.87 9.13 24 d 0 means 3.32 0.73 49.53 11.39 17.54 7.18 10.31 10.31 12.4 d 0 means 1.81 12.96 67.07 4.72 9.39 9.39 9.39 24	87.00 13.00 12.07 8 Not at A 20.72 2.29 0.00 14.45 1.566 12 8 Not at A 20.72 5.86 12 5.166 2.55.86 8.45 5.12 5.11 12	91.55 8.45 12 II Likely, h 0.24 0.45 58.30 12.51 10.75 5.89 11.86 72 II Likely, h 0.44 0.45 1.71 14.34 69.05 4.06 10.15 10.15	41.98 58.02 6 ow likely 0.00 14.85 0.00 33.04 0.00 41.98 10.12 6 ow likely 0.00 14.85 15.18 0.00 0.00	100.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00 0.00 1 are you t 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	100.00 0.00 0.00 1 o replace 0.00 0.00 0.00 0.00 100.00 0.00 0.00 0	0.00 0.00 0 your T12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	64.21 35.79 3 fixtures v 35.79 0.00 0.00 0.00 64.21 0.00 3 fixtures v 35.79 0.00 0.00 4.21 0.00 3 4.21 0.00 0.00 0.00 4.21 0.00	31.14 68.86 5 with a light 0.00 3.70 0.00 0.00 0.00 3.114 65.15 5 with a light 0.00 3.70 0.00 0.00 0.00 0.00 0.00 0.00	100.00 0.00 2 titing syst 5.88 0.00 0.00 0.00 0.00 94.12 2 titing syst 5.88 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 1 em that is 0.00 0.00 0.00 100.00 0.00 7 em that is 0.00 0.00 0.00 0.00 100.00 0.00 100.00 0.00 100.00 0.00 100.00 0.00 100.00 0.00	0.00 1 the minim 0.00 100.00 0.00 0.00 0.00 0.00 1 the minim 0.00 0.	0.00 2 num 0.00 0.00 87.26 0.00 12.74 0.00 2 an the 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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No. 7 <t12_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 1 Not at All Likely 2 To Complete the complete th</t12_21>	90 878 24 24 24 24 24 24 24 24 24 24 24 24 24	87:00 13:00	91.55 8.46 12 21 Likely, h. p. 12 14 14 14 14 14 14 14 14 14 14 14 14 14	4.1989 down likely 6.00 own li	100,000 100,00	100.00 7 7 100.00 100.0	0.00 0 your T12 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	64.21 3.579	31.14.19 68.88 6 8.88 6 8.88 8 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10	100.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
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No. 7 <t12_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 1 Not at All Likely 2 To 10 Extremely Likely 2 Zero - Not at All Likely 7 <t12_22> On a scale of 0 to 10 where 10 means Extremely Likely 7 <t12_22> On a scale of 0 to 10 where 10 means Extremely Likely 7 <t12_22> On a scale of 0 to 10 where 10 means Extremely Likely 7 1 Not at All Likely 7 1 Not at All Likely 7 2 To 10 Extremely Likely 2 Zero - Not at All Likely 7 4 Say 10 Extremely Likely 2 Zero - Not at All Likely 2 Zero - Not at All Likely 2 Zero - Not at All Likely 3 Say 10 Extremely Likely 4 Zero - Not at All Likely 5 Zero - Not at All Likely 7 To replace old/outdated lighting equipment was used Maintenance downtime/associated expenses for old equip were too high Had process problems and were seeking a solution 7 To gain more control over how the meguipment performance To improve the ighting equipment performance To improve the ighting equipment performance To improve the guality of the lighting in your facility To comply wifo codes set by regulation yagencies To myrow evisibility/plant safety Comply w/co. policies regarding lighting retroffis/remodeling To get a rebate from the program To protect the environment To reduce energy uselpower outlages To update to the latest technology Other Retused Don't Know 6N2> Did your company make the decision to install measure before</t12_22></t12_22></t12_22></t12_21>	90 878 787 878 978 978 978 978 978 978 978	87:00 21 3 Not at A 20 72 2 299 2 20 20 3 11 5 8 Not at A 20 72 2 299 2 20 20 3 11 5 58 86 5 11 5 58 86 5 52 2 2 20 2 35 55 6 86 5 55 6 11 6 5 6 86 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	91.55 8.46 4.66 4.67 4.67 4.67 4.67 4.67 4.67 4	4.1989 do se de la companya de la co	100,000 100,00	100.00 10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	64.21 3 3 79 3 75 75 75 75 75 75 75 75 75 75 75 75 75	31.14.19.10.10.10.10.10.10.10.10.10.10.10.10.10.	100,000 100,00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000
No 7 <t12_21> On a scale of 0 to 10 where 10 means Extremely Likely an allowable level of efficiency within the next year as a result of the 1 Not at All Likely 1 Not at All Likely 2 Sero - Not at All Likely 3 Not at All Likely 4 Sero - Not at All Likely 5 Not at All Likely 6 Not at All Likely 7 Not at All Likely 7 Not at All Likely 8 Not at All Likely 9 Not a Sero - Not at All Likely 9 Not at All Likely 9 Not at All Likely 1 Not at All Likely 1 Not at All Likely 2 Sero - Not at All Likely 3 Not at All Likely 4 Not at All Likely 5 Not at All Likely 6 Not at All Likely 7 Not at All Likely 8 Not at All Likely 9 Not at All Likely 1 To replace old/outdated lighting equipment was used Maintenance downtime/associated expenses for old equip were too high 9 Had process problems and were seeking a solution 9 To improve thing equipment performance 1 To improve the quality of the lighting in your facility 1 To comply with codes set by regulatory aperiormance 1 To improve the quality of the lighting in your facility 1 To comply wico. policies regarding lighting retroffits/remodeling 1 To get a rebet from the program 1 To protuce the program 1 To protuce energy costs 1 To reduce energy costs 1 To reduce energy usepower outages 1 To update to the latest technology 1 Other 1 Refused 2 Don't Know 2 Note Service and the Service Servi</t12_21>	90 878 787 878 978 978 978 978 978 978 978	87:00 21 3 Not at A 20 72 2 299 2 20 20 3 11 5 8 Not at A 20 72 2 299 2 20 20 3 11 5 58 86 5 11 5 58 86 5 55 5 55 6 10 6 10 6 10 6 10 6 10 6 10 6 10 6 10	91.55 8.46 172 1 Likely, h 1.65 18.46 172 1 Likely, h 1.65 18.46	4.1989 do 6 lo 6	100,000 1 are you to 100,000 1 0,000 1	100.00 10	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	64.21 3 35.79 3 35.79 3 35.79 3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	31.14.19.10.10.10.10.10.10.10.10.10.10.10.10.10.	100,000 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<n3a> On a scale of 1-10 please rate the age or condition of the old 1 Not at All Important</n3a>	2.29	1.96	2.41	0.25	9.59	1.69	0.00	1.02	0.68	3.04	2.83	0.00	4.81
2	6.42 7.82	3.88 2.85	7.31 9.56	1.95 0.38	7.86 2.62	1.91	0.00	5.42 4.79	12.11 5.39	7.77 6.42	12.27	0.12 22.22	10.48
3	12.86	13.81	12.53	17.64	16.65	3.20 11.02	0.00	13.86	14.70	11.95	2.39 24.71	12.88	2.51 8.14
5	17.57 5.02	13.10 5.86	19.13 4.73	16.00 2.44	5.02 5.16	20.97 9.03	21.49 0.00	8.55 7.59	13.07 2.83	15.01 7.18	25.54 5.90	31.28 0.00	9.32 8.71
7	4.58	3.74	4.87	4.27	4.40	8.25	0.00	1.46	4.53	20.98	4.35	0.00	7.07
8	8.58 1.68	11.13	7.69 0.93	21.14	3.35 3.09	14.99 12.08	0.00	6.86 1.58	12.76 1.18	9.34	12.27	0.00	11.14
10 Extremely Important	13.33	19.85	11.04	17.05	28.15	15.21	9.08	22.94	11.72	6.41	4.08	1.05	22.04
Zero Not at All Important Don't Know	19.80	19.99	19.73	16.77 0.00	14.11 0.00	1.65 0.00	69.43 0.00	25.91	20.42	11.48	3.42 0.00	32.44 0.00	14.46
n	561	278	283	106	38	34	3	96	93	43	34	10	102
<n3aa> How, specifically, did this enter into your decision to install/d Equipment broken/needed replacement</n3aa>	elamp th 29.02	is lighting 32.51	equipme 27.27	nt? 24.42	33.62	39.22	0.00	31.96	19.85	17.65	30.50	100.00	28.10
Program was sole reason for equipment replacement	16.78	28.95	10.67	59.36	52.71	22.72	0.00	12.86	25.17	25.22	13.65	0.00	5.90
Poor lighting quality Inefficient equipment	0.00 19.24	0.00 16.85	0.00 20.44	0.00 7.22	0.00 28.60	0.00 24.39	0.00	0.00 15.08	0.00 10.34	0.00 29.48	0.00 40.52	0.00	0.00 17.75
Equipment being phased out	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Other - Unrelated	0.29	0.05 5.96	0.41 14.41	0.22	0.00 16.49	0.00 13.16	0.00	0.00 2.29	3.40 17.87	0.00	0.00 11.86	0.00	0.00 14.32
Other - Other	20.08	11.92	24.17	9.19	0.00	0.00	0.00	24.11	23.37	0.00	0.00	0.00	32.05
Refused Don't Know	0.00 5.14	0.00	0.00 3.26	0.00	0.00 1.26	0.00 0.51	0.00	0.00 21.34	0.00	0.00 13.94	0.00 3.47	0.00	0.00 2.59
n	139	65	74	26	6	13	0.00	20	22	13.94	12	1	30
<n3b> On a scale of 1-10 please rate the availability of the program 1 Not at All Important</n3b>	rebate/co 0.28	st reducti 1.08	on 0.00	4.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.26	0.22	0.27	0.90	0.00	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.00
3	0.76 1.10	0.37	0.90	0.00	3.01	0.00	0.00	0.00	0.00	11.58 6.94	0.00	0.00	0.73 2.64
5	2.71	4.94	1.93	13.55	6.43	3.72	0.00	0.51	3.64	11.86	1.69	0.00	1.72
6 7	0.67 11.39	0.56 6.92	0.70 12.95	0.07 6.17	0.00 10.55	0.00 10.47	0.00 21.49	1.43	2.80 1.08	1.96 4.62	0.00 4.99	0.12 31.28	0.57 4.43
8	12.88	19.79	10.46	14.56	25.93	21.90	0.00	23.10	16.51	13.31	14.94	0.65	15.29
9 10 Extremely Important	14.50 53.76	4.25 59.57	18.09 51.72	7.14 50.09	0.69 53.39	1.88 62.03	0.00	5.34 63.66	8.77 63.47	2.32 47.40	10.20	29.87 38.09	15.39
Zero Not at All Important	0.63	0.94	0.52	2.77	0.00	0.00	78.51 0.00	0.67	1.32	0.00	67.90 0.00	0.00	55.64 0.93
Don't Know	1.07 561	1.06 278	1.08	0.00 106	0.00 38	0.00 34	0.00	2.79 96	0.17 93	0.00 43	0.29 34	0.00	2.66
<n3bb> Why do you give it this rating?</n3bb>	301	2/6	203	700	30	34	3	90	93	43	34	70	102
1 2	26.93 10.50	17.86 6.71	29.88	2.93 16.51	1.16	14.39	100.00	17.88 2.39	9.57	36.79 0.00	23.04 5.83	56.20 24.91	17.16
3	1.33	2.92	0.81	0.35	0.00	11.66 0.00	0.00	6.32	13.59 0.67	0.00	5.05	0.00	3.44 0.29
4 5	48.64 0.97	59.95 0.00	44.96 1.28	66.31 0.00	83.69 0.00	73.77 0.00	0.00	54.16 0.00	48.40 0.00	59.65 0.00	63.86	18.89	57.55 3.23
7	0.54	0.68	0.49	0.68	6.42	0.00	0.00	0.06	0.00	0.00	0.00	0.00	1.24
8	1.12	0.63 1.74	1.29	3.42 3.75	0.00 8.73	0.00 0.18	0.00	0.00	9.76 1.09	0.00 3.55	0.00 2.22	0.00	0.00 1.82
Record verbatim	7.57	5.41	8.27	6.05	0.00	0.00	0.00	9.44	16.92	0.00	0.00	0.00	15.16
Don't Know	1.04 286	4.11 129	0.04 157	0.00 49	0.00 15	0.00 18	0.00	9.09 45	0.00 55	0.00	0.00	0.00	0.10 58
<n3c> Information provided through</n3c>	200	720	101	.0	,,,	.0			00		20		00
1 Not at All Important	0.06 34.12	0.00 18.58	0.07 38.23	0.00	0.00	0.00	0.00 76.36	0.00	2.01	0.00	0.00	0.00 53.70	0.00
3	1.33	1.67	1.24	0.00	11.09	0.00	0.00	0.00	0.00	42.88	0.00	0.00	0.00
5	6.51 3.84	18.80 1.24	3.26 4.53	54.75 0.00	7.57 0.00	2.20 0.00	0.00	24.56 4.08	48.21 0.00	23.92	15.56 0.00	0.00	2.43 22.41
7	29.64	12.03	34.29	0.00	1.97	49.71	23.64	0.00	0.92	5.10	55.53	46.30	0.00
8	3.63 5.63	5.52 5.12	3.13 5.76	12.49 12.82	18.09 1.81	1.09	0.00	1.32 8.28	29.35	4.21 0.00	23.45 0.00	0.00	7.20 28.51
10 Extremely Important	8.66	19.63	5.76	15.02	39.96	47.01	0.00	17.18	19.51	16.15	5.46	0.00	22.14
Zero Not at All Important	5.71 0.88	14.07 3.34	3.50 0.22	4.92 0.00	2.05 17.45	0.00	0.00	42.26 2.31	0.00	0.00 7.75	0.00	0.00	17.31 0.00
n	71	3.34	36	8	17.43	4	2	11	10	9	4	2	11
<n3cc> Why do you give it this rating?</n3cc>	91.25	91.55	91.03	54.60	100.00	100.00	0.00	100.00	37.86	100.00	0.00	0.00	100.00
Record verbatim	8.75	8.45	8.97	45.40	0.00	0.00	0.00	0.00	62.14	0.00	0.00	0.00	0.00
n <n3d> Recommendation from an equipment vendor that sold you th</n3d>	21 e lighting	measure	and/or in	stalled it	2	1	0	4	4	1	0	0	5
1 Not at All Important	2.53	7.43	0.89	0.00	0.21	0.00	0.00	21.49	0.00	5.38	0.00	0.00	1.64
2	11.76	5.09 1.95	13.99	0.27	0.60 0.16	0.00 1.17	69.43 0.00	0.00 4.98	2.25 0.00	8.52 6.06	3.52 0.00	37.29 0.00	0.00 1.49
4	5.05	3.68	5.51	1.19	13.72	3.03	0.00	2.83	11.82	10.55	2.80	0.00	8.72
5	15.50	12.51	16.51 1.10	13.71 10.24	9.13 3.05	20.28 8.63	0.00	11.33	17.31 4.20	12.96 0.00	18.88 3.43	19.53	13.19 0.56
5	2.19	5.45	1.10										2.16
6 7	11.70	5.06	13.92	5.55	12.32	0.38	21.49	0.97	2.50	4.82		35.95	
6					12.32 1.94 6.73	0.38 39.47 0.73	21.49 0.00 0.00	0.97 18.11 12.20	2.50 22.14 2.16	4.82 9.78 15.68	31.44	35.95 0.74 0.00	18.77
6 7 7 8 9 10 Extremely Important	11.70 15.09 5.46 23.86	5.06 18.62 8.96 25.01	13.92 13.91 4.29 23.47	5.55 18.20 13.83 25.14	1.94 6.73 46.33	39.47 0.73 22.73	0.00 0.00 9.08	18.11 12.20 21.21	22.14 2.16 24.07	9.78 15.68 12.16	31.44 1.00 15.35	0.74 0.00 6.49	18.77 8.29 43.46
6 7 8 9	11.70 15.09 5.46 23.86 5.27 0.44	5.06 18.62 8.96 25.01 5.32 0.93	13.92 13.91 4.29 23.47 5.26 0.28	5.55 18.20 13.83 25.14 11.88 0.00	1.94 6.73 46.33 5.82 0.00	39.47 0.73 22.73 1.38 2.20	0.00	18.11 12.20 21.21 3.25 1.52	22.14 2.16 24.07 13.34 0.20	9.78 15.68 12.16 14.09 0.00	31.44 1.00 15.35 20.63 1.46	0.74 0.00 6.49 0.00 0.00	18.77 8.29 43.46 1.47 0.24
6 7 8 9 10 Extremely Important Zero Not at All Important Don't Know	11.70 15.09 5.46 23.86 5.27 0.44 426	5.06 18.62 8.96 25.01 5.32 0.93 212	13.92 13.91 4.29 23.47 5.26 0.28 214	5.55 18.20 13.83 25.14 11.88 0.00 86	1.94 6.73 46.33 5.82	39.47 0.73 22.73 1.38	0.00 0.00 9.08 0.00	18.11 12.20 21.21 3.25	22.14 2.16 24.07 13.34	9.78 15.68 12.16 14.09	31.44 1.00 15.35 20.63	0.74 0.00 6.49 0.00	18.77 8.29 43.46 1.47
6 7 7 8 9 10 Extremely Important Zero Not at All Important Dan't Know	11.70 15.09 5.46 23.86 5.27 0.44 426	5.06 18.62 8.96 25.01 5.32 0.93 212	13.92 13.91 4.29 23.47 5.26 0.28 214	5.55 18.20 13.83 25.14 11.88 0.00 86	1.94 6.73 46.33 5.82 0.00	39.47 0.73 22.73 1.38 2.20	0.00 0.00 9.08 0.00 0.00	18.11 12.20 21.21 3.25 1.52	22.14 2.16 24.07 13.34 0.20	9.78 15.68 12.16 14.09 0.00	31.44 1.00 15.35 20.63 1.46 26	0.74 0.00 6.49 0.00 0.00	18.77 8.29 43.46 1.47 0.24
6 7 8 9 10 Extremely Important Zero Not at All Important Don't Know n National Important On a scale of 1-10 please rate your previous experience with 1 Not at All Important 2	11.70 15.09 5.46 23.86 5.27 0.44 426 energy ef 3.73 3.87	5.06 18.62 8.96 25.01 5.32 0.93 212 ficient lig 6.57 3.74	13.92 13.91 4.29 23.47 5.26 0.28 214 hting proj 2.73 3.92	5.55 18.20 13.83 25.14 11.88 0.00 86 ects? 0.00 4.49	1.94 6.73 46.33 5.82 0.00 32 1.01 3.99	39.47 0.73 22.73 1.38 2.20 25 2.31 5.16	0.00 9.08 0.00 0.00 0.00 3 0.00 9.08	18.11 12.20 21.21 3.25 1.52 65	22.14 2.16 24.07 13.34 0.20 72 0.00 3.23	9.78 15.68 12.16 14.09 0.00 32 0.83 12.26	31.44 1.00 15.35 20.63 1.46 26	0.74 0.00 6.49 0.00 0.00 8 4.82 0.41	18.77 8.29 43.46 1.47 0.24 75 2.17 6.18
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6 7 8 8 9 10 Extremely Important Zero Not at All Important Dont Know SMSE> On a scale of 1-10 please rate your previous experience with 1 Not at All Important 1	11.70 15.09 5.46 23.86 5.27 0.44 426 3.73 3.87 2.20 1.83 4.60 2.92 10.26 9.49	5.06 18.62 8.96 25.01 0.93 212 ficient lig 6.57 3.74 2.73 2.26 5.34 4.21 2.88 11.83	13.92 13.91 4.29 23.47 5.26 0.28 274 hting proj 2.73 3.92 2.01 1.68 4.34 4.34 4.34 6.12.85 8.67	5.55 18.20 13.83 25.14 11.88 0.00 86 ects? 0.00 4.49 0.34 0.00 9.41 10.06 5.50	1.94 6.73 46.33 5.82 0.00 32 1.01 3.99 17.03 3.85 2.67 2.87 0.36	39.47 0.73 22.73 1.38 2.20 25 2.31 5.16 0.00 5.25 9.32 0.00 0.00 17.53	0.00 0.00 9.08 0.00 0.00 3 3 0.00 9.08 0.00 0.00 0.00 0.00 0.00 0.00	18.11 12.20 21.21 3.25 1.52 65 15.77 1.59 1.44 2.03 2.34 3.58 0.69 9.81	22.14 2.16 24.07 13.34 0.20 72 0.00 3.23 0.79 0.18 4.02 0.17 4.88 32.28	9.78 15.68 12.16 14.09 0.00 32 0.83 12.26 6.42 0.82 6.58 8.66 8.90 23.31	31.44 1.00 15.35 20.63 1.46 26 2.39 3.08 8.03 0.00 8.57 0.00 0.44 7.59	0.74 0.00 6.49 0.00 0.00 8 8 4.82 0.41 0.12 0.00 0.00 0.00 31.28	18.77 8.29 43.46 1.47 0.24 75 2.17 6.18 1.67 4.21 6.64 5.14 3.67 6.94
6 7 7 8 9 10 Extremely Important Zero Not at All Important Dank Know AN3E> On a scale of 1-10 please rate your previous experience with 1 Not at All Important 2 2 3 4 5 6 7 7	11.70 15.09 5.46 23.86 5.27 0.44 426 energy ef 3.73 3.87 2.20 1.83 4.60 2.92	5.06 18.62 8.96 25.01 5.32 0.93 272 ficient lig 6.57 3.74 2.73 2.26 4.21 2.88	13.92 13.91 4.29 23.47 5.26 0.28 274 htting proj 2.73 3.92 2.01 1.686 4.34 2.46 12.85	5.55 18.20 13.83 25.14 11.88 0.00 86 ects? 0.00 4.49 0.34 0.00 9.41 10.06 5.50	1.94 6.73 46.33 5.82 0.00 32 1.01 3.99 17.03 3.85 2.67 2.87	39.47 0.73 22.73 1.38 2.20 25 2.31 5.16 0.00 5.25 9.32 0.00	0.00 0.00 9.08 0.00 0.00 3 0.00 9.08 0.00 0.00 0.00 0.00 0.00 0.00	18.11 12.20 21.21 3.25 1.52 65 15.77 1.59 1.44 2.03 2.34 3.58 0.69	22.14 2.16 24.07 13.34 0.20 72 0.00 3.23 0.79 0.18 4.02 0.17 4.88	9.78 15.68 12.16 14.09 0.00 32 0.83 12.26 6.42 0.82 6.58 8.66	31.44 1.00 15.35 20.63 1.46 26 2.39 3.08 8.03 0.00 8.57 0.00 0.44	0.74 0.00 6.49 0.00 0.00 8 4.82 0.41 0.12 0.00 0.00 0.00 0.00	18.77 8.29 43.46 1.47 0.24 75 2.17 6.18 1.67 4.21 6.64 5.14
6 7 7 8 9 10 Extremely Important Zero Not at All Important On a scale of 1-10 please rate your previous experience with 1 Not at All Important 2 3 4 5 6 6 7 7 8	11.70 15.09 5.46 23.86 5.27 0.44 426 energy ef 3.73 3.87 2.20 1.83 4.60 2.92 10.26 9.49 5.08	5.06 18.62 8.96 25.01 0.93 212 ficient lig 6.57 3.74 2.73 2.26 5.34 4.21 2.88 11.83	13.92 13.91 4.29 23.47 5.26 0.28 214 hting pro 2.73 3.92 2.01 1.68 4.34 2.46 12.85 8.67 6.32	5.55 18.20 13.83 25.14 11.88 0.00 86 ects? 0.00 4.49 0.34 0.00 9.41 10.06 5.50 15.34	1.94 6.73 46.33 5.82 0.00 32 1.01 3.99 17.03 3.85 2.67 2.87 0.36 7.61	39.47 0.73 22.73 1.38 2.20 25 2.31 5.16 0.00 5.25 9.32 0.00 0.00 17.53	0.00 0.00 9.08 0.00 3 0.00 9.08 0.00 0.0	18.11 12.20 21.21 3.25 1.52 65 15.77 1.59 1.44 2.03 2.34 3.58 0.69 9.81	22.14 2.16 24.07 13.34 0.20 72 0.00 3.23 0.79 0.18 4.02 0.17 4.88 32.28	9.78 15.68 12.16 14.09 0.00 32 0.83 12.26 6.42 0.82 6.58 8.66 8.90 23.31	31.44 1.00 15.35 20.63 1.46 26 2.39 3.08 8.03 0.00 0.44 7.59 0.86 27.90	0.74 0.00 6.49 0.00 0.00 8 4.82 0.41 0.12 0.00 0.00 0.00 0.00 0.00 16.99	18.77 8.29 43.46 1.47 0.24 75 2.17 6.18 1.67 4.21 6.64 5.14 3.67 6.94

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large (%)	LED Reflector(s) Retail - Small(%)
<n3f> On a scale of 1-10 please rate your previous experience with 1 Not at All Important</n3f>	the utility 4.19	6.39	am or a s 3.41	imilar util 0.00	ity progra 1.01	am? 2.60	0.00	15.08	0.00	0.83	2.39	4.82	3.89
2 3	3.92 1.56	3.96 1.46	3.91 1.59	5.38 0.69	11.14 9.87	4.42 0.00	0.00	1.08 0.20	7.69 0.27	12.26	3.08 8.03	0.00	5.14 1.32
4	0.54	0.55	0.53	0.00	2.87	0.00	0.00	0.51 5.88	0.30	6.75	0.00	0.00	0.35
5 6	1.41	1.06	1.53	0.22	0.95	5.25	0.00	0.00	0.64	1.14	0.00	0.41	6.81 3.51
7 8	15.20 5.46	6.47 7.64	18.26 4.70	7.90 7.75	2.61 4.52	7.02 7.81	21.49 0.00	4.27 9.63	1.05 9.88	1.04	2.93 6.94	48.27 0.00	4.77 5.19
9	1.83	2.71	1.53	6.93	3.49	0.00	0.00	1.47	2.31	11.92	0.00	0.00	1.58
10 Extremely Important Zero Not at All Important	10.87 48.64	9.17 55.12	11.46 46.37	11.78 54.10	7.92 52.77	7.69 63.93	0.00 69.43	9.98 50.01	18.47 52.27	8.37 34.41	23.67 46.14	0.41 45.97	15.66 46.62
Don't Know	2.95 561	1.89 278	3.32 283	3.08 106	2.84 38	0.29 34	0.00	1.89 96	4.41 93	2.48 43	5.96 34	0.00	5.19 102
<n3g> Information from the program or utility training course?</n3g>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NICON What true of information was provided that was related to	0	0	0	0	0.00	0.00	0	0.00	0.00	0		0.00	0.00
<n3gg> What type of information was provided that was related to the Other</n3gg>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<n3ggg> How, specifically, did this enter into your decision to insta</n3ggg>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <n3h> On a scale of 1-10 please rate Information from the program</n3h>	0	0	0	0	0	0	0	0	0	0	0	0	0
1 Not at All Important	2.75	6.85	1.31	0.00	3.81	2.31	0.00	15.59	0.68	7.72		0.00	1.44
2 3	7.07 3.50	2.27 2.43	8.75 3.87	0.74 3.64	0.00 2.87	2.20 0.00	0.00	4.37 3.09	5.96 5.86	0.00 6.48	9.74 0.00	16.99 0.00	3.50 7.32
4	2.89	3.73	2.60	2.79	5.69	11.16	0.00	0.51	3.26	12.32	8.33	0.00	1.63
5 6	20.52 3.40	15.60 3.51	22.24 3.37	17.42 2.54	12.40	14.32 6.57	69.43 0.00	8.10 4.25	16.73 7.27	18.58 6.40	10.21 3.10	45.45 0.00	8.06 4.68
7 8	13.87 11.48	7.65 18.98	16.04 8.86	13.42	0.00 21.86	14.25 22.53	21.49 0.00	0.99	2.83	1.69	16.40 11.95	36.10 0.00	4.90 13.34
9	3.19	5.58	2.35	11.13	3.36	8.99	0.00	1.72	4.06	2.39	4.55	0.00	3.14
10 Extremely Important Zero Not at All Important	15.98 13.61	13.97 17.87	16.69 12.11	10.52 15.62	33.01 16.82	15.56 2.10	0.00 9.08	11.32 28.96	22.92 16.14	13.30 10.25	26.22 6.67	0.41 1.05	26.42 22.16
Don't Know	1.75 561	1.59 278	1.80 283	1.93 106	0.18 38	0.00 34	0.00	2.86 96	3.50 93	0.36 43	0.44 34	0.00	3.41 102
<n3hh> What type of information was provided that pertained to the Related</n3hh>					40.27		400.00	91.02	60.86		00.45	98.87	45.58
Unrelated	19.20	73.17 14.93	65.24 20.52	69.32 2.38	59.73	67.07 21.84	100.00	6.23	20.32	62.00 38.00	31.58	0.00	29.29
Other Refused	7.77	0.28	10.08	0.00	0.00	0.00	0.00	0.71	18.38	0.00	0.00	0.00	19.00
Don't Know	5.92 172	11.62 77	4.16 95	28.31 33	0.00	11.09 14	0.00	2.04 21	0.44 34	0.00	8.27 15	1.13	6.13 33
<n3hhh> How, specifically, did this enter into your decision to instal</n3hhh>	l/delamp t	this lightin	g equipn	nent?	,		- 1						
Related Unrelated	67.11 19.20	73.17 14.93	65.24 20.52	69.32 2.38	40.27 59.73	67.07 21.84	100.00	91.02 6.23	60.86 20.32	62.00 38.00	60.15 31.58	98.87	45.58 29.29
Other Refused	7.77 0.00	0.28	10.08	0.00	0.00	0.00	0.00	0.71	18.38 0.00	0.00	0.00	0.00	19.00
Don't Know	5.92	11.62	4.16	28.31	0.00	11.09	0.00	2.04	0.44	0.00	8.27	1.13	6.13
N3J> On a scale of 1-10 please rate standard practice in your busing	172 ness/indus	77 stry	95	33		14	7	21	34	8	15	4	33
1 Not at All Important 2	3.38 1.66	7.76 2.06	2.01 1.53	0.00 3.17	0.00 9.76	2.65 2.53	0.00	17.47 0.00	0.82 6.75	0.00 10.47	2.85 2.56	0.00	4.44 0.00
3	2.85	2.79	2.86	0.09	5.79	0.00	0.00	5.58	0.99	14.64	0.00	0.00	5.62
4 5	0.82 8.74	1.24 9.29	0.70 8.56	1.62 6.64	8.40 13.15	0.00 17.45	0.00	0.45 7.30	5.30 9.66	2.01 12.80	0.00 30.42	0.00 3.86	0.00 6.19
6 7	2.73 14.18	3.40 6.61	2.52 16.53	0.33	7.34 19.37	3.39 7.16	0.00 23.64	4.87 2.68	6.88 8.64	9.76 1.64	2.42	0.00 28.08	2.81 13.20
8	14.24	14.06	14.29	14.27	13.36	22.66	0.00	11.81	4.60	27.42	13.85	18.42	11.48
9 10 Extremely Important	2.57 26.10	4.20 19.26	2.06	1.98	0.00 12.63	12.97 9.09	0.00 76.36	2.43	3.43 10.69	0.00 3.41	8.44 10.42	0.00 49.63	2.16
Zero Not at All Important Don't Know	13.88 8.88	21.43 7.92	11.53 9.17	41.64 13.37	5.64 4.56	14.87 7.22	0.00	20.00 7.15	29.98 12.26	17.39 0.46	19.28 7.09	0.00	14.51 19.24
n	346	156	190	59	19	22	2	53	63	26	24	9	67
<n3l> A suggestion by your account representative</n3l>			0.98				0.00	0.00	0.00	25.00		0.00	0.00
5	3.26 0.34	29.94	0.00	0.00	58.70 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 1.40
7	5.93 59.69	32.89 28.13	2.64	100.00	0.00	0.00	0.00	8.31 68.76	89.72	0.00	0.00	0.00	1.11
9	1.43	2.80	1.27	0.00	0.00	0.00 100.00	0.00	5.96	0.00	7.69	4.51	0.00	50.36 0.00
10 Extremely Important Zero Not at All Important	28.07 0.40	4.08 2.16	31.00 0.19	0.00	2.83 4.24	0.00	0.00	16.97 0.00	10.28 0.00	18.69 4.79		0.00	47.13 0.00
n	37	17	20	3	5	1	0	7	2	5	3	1	8
<n3ll> What did they recommend? Related</n3ll>	82.75	12.43	88.13	0.00	0.00	100.00	0.00	52.58	0.00	0.00	100.00	100.00	64.67
Unrelated Other	8.03 0.23	15.11 1.13	7.49 0.16	0.00	50.83	0.00	0.00	0.00	0.00	100.00	0.00	0.00	20.23 0.00
Refused	0.00	0.00 71.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	20	10	10	2	49.17	0.00	0.00	47.42	0.00	0.00	0.00	0.00	15.09
<n3lll> How, specifically, did this enter into your decision to install Related</n3lll>	delamp tl 64.70	his lighting 35.89	equipm 65.36	ent? 0.00	0.00	100.00	0.00	79.32	0.00	0.00	4.63	100.00	43.75
Unrelated	29.23	0.00	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.37	0.00	45.56
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	6.07 15	64.11 6	4.73 9	0.00	100.00	0.00	0.00	20.68	0.00	100.00	0.00	0.00	10.69 4
"													

<n3m> How, specifically, did this enter into your decision to install th</n3m>	Is lighting	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
1 Not at All Important	4.83 2.78	8.27 1.23	3.76 3.26	2.22 2.85	0.00	2.65 2.53	0.00	17.47 0.00	13.03 2.66	0.00	2.85 2.56	0.12	5.31 6.25
3	5.55	3.88	6.08	0.00	10.02	12.94	0.00	0.81	0.56	8.11 8.82	17.79	0.00	10.22
5	1.29 6.38	1.10 11.66	1.35 4.73	0.06 23.56	7.42 15.08	0.00 12.18	0.00	1.18 5.93	1.86 7.86	1.03 16.54	0.00 9.45	0.00 3.32	2.98
6 7	8.77 2.09	3.27 3.62	10.49	0.78 1.36	19.02	0.00 3.10	23.64 0.00	0.02 6.45	0.98 1.35	0.00	0.00 1.41	28.08	0.00 3.60
8 9	13.18 0.69	14.66 2.08	12.71 0.25	14.06 1.82	5.64 0.00	31.00 7.78	0.00	10.72 0.04	14.16 0.90	18.29	17.89 1.43	18.84	3.87 0.00
10 Extremely Important Zero Not at All Important	13.83 35.96	5.67 39.83	16.37	1.72	10.01	1.95 18.50	0.00 76.36	9.84	4.31 47.47	3.41	31.39 8.14	17.06 32.57	16.81 40.80
Refused	0.16	0.02	0.20	0.00	0.00	0.00	0.00	0.06	0.98	1.95	0.00	0.00	0.00
Don't Know	4.50 346	4.71 156	4.44 190	1.22 59	7.53 19	7.38 22	0.00	5.47 53	3.89 63	8.21 26	7.09 24	0.00	7.86 67
<n3mm> How, specifically, did this enter into your decision to install/ Related</n3mm>	delamp th 11.00	2.39	12.90	ent? 11.59	0.00	0.00	0.00	1.56	6.37	0.00	0.00	20.22	4.61
Unrelated Other	76.81 6.14	78.93 0.33	76.34 7.42	87.67 0.00	45.13 0.00	99.33 0.00	100.00	64.01 0.87	73.07 15.87	100.00	98.05 0.00	79.14 0.00	53.73 30.30
Refused Don't Know	0.00 6.04	0.00 18.35	0.00 3.34	0.00	0.00 54.87	0.00 0.67	0.00	0.00 33.56	0.00 4.69	0.00	0.00 1.95	0.00	0.00
n	109	48	61	19	4	8	1	16	20	6	1.93	6	11.36 17
<n3n> Please rate the degree of importance of payback or return on 1 Not at All Important</n3n>	0.38	0.46	alling this 0.35	0.00	equipmer 0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	0.92
2 3	1.09 1.09	0.09 1.18	1.44	0.35 2.68	0.00 2.62	0.00	0.00	0.00 0.51	1.81 0.17	0.96	0.73	3.31 0.00	0.00 2.71
4 5	0.25 4.14	0.44 8.10	0.18 2.75	0.67 16.20	0.00 9.82	0.00 13.08	0.00	0.71 0.97	0.00 5.00	2.55 8.89	0.00 5.29	0.00	0.13 2.83
6	2.20	2.92	1.95	0.74	5.25 1.14	10.88	0.00	0.00	3.04 0.62	7.25 12.62	7.94 0.00	0.00	0.81
8	31.00	18.37	35.42	9.61	23.74	16.92	90.92	12.28	14.09	23.01	18.96	73.41	16.03
9 10 Extremely Important	6.02 38.66	8.62 41.45	5.10 37.69	11.84 33.84	5.00 49.79	9.92 42.63	0.00 9.08	8.26 47.94	6.75 47.09	0.64 38.46	2.35 59.10	0.00 22.63	10.33 41.40
Zero Not at All Important Refused	6.07 0.01	9.86 0.03	4.75 0.00	17.14 0.00	0.00	0.00 0.14	0.00	14.77 0.00	15.71 0.00	5.26 0.00	0.00	0.65	6.11 0.00
Don't Know	4.30 561	5.93 278	3.73 283	5.31 106	2.64 38	5.99 34	0.00	8.24 96	5.73 93	0.36 43	5.64 34	0.00	6.22 102
<n3o> To Improve production as a result of lighting?</n3o>													
1 Not at All Important	0.34 2.33	1.00 0.62	0.11 2.93	0.00 1.58	5.00 0.00	0.00	0.00	1.02 0.61	0.17 0.00	0.33 7.26	0.00 11.04	0.00	0.19 3.43
3 4	0.61 2.27	1.59 1.58	0.27 2.51	2.85 0.00	7.15 0.51	0.00 6.86	0.00	0.00	1.32 8.41	1.37	0.29 3.75	0.00	0.00 2.64
5	8.53 2.89	10.77 3.33	7.75 2.73	24.82 2.06	9.32 15.12	9.30 3.26	0.00	4.45 0.87	26.42 4.66	16.58 6.41	6.99 5.01	0.00	7.50 3.30
7	6.02 25.15	4.08 19.16	6.70 27.25	1.25	3.88 5.23	11.25 32.30	0.00	2.89	1.17	17.16 13.62	20.52 35.11	3.31 46.44	5.87 12.63
9	5.67	6.65	5.33	14.01	0.41	1.47	0.00	7.48	8.02	6.77	0.86	0.00	10.14
10 Extremely Important Zero Not at All Important	34.73 11.46	42.88 8.34	31.87 12.56	31.07 2.25	50.76 2.62	34.52 1.05	9.08 69.43	57.29 8.77	27.24 2.28	28.91 0.36	16.43 0.00	17.81 32.44	50.25 4.05
n N3OO> How, specifically, did this enter into your decision to install/	561 delamp th	278 is lighting	283 equipme	106 ent?	38	34	3	96	93	43	34	10	102
Related Unrelated	45.91 46.67	32.50 61.69	50.75 41.25	25.11 69.27	40.28 59.72	41.13 58.39	100.00	26.30 63.25	45.35 36.56	32.19 66.91	16.79 80.53	87.78 12.22	37.49 48.97
Other Refused	5.30	1.70	6.60	5.05 0.00	0.00	0.17	0.00	1.28	14.57 0.00	0.00	1.59 0.00	0.00	11.56 0.00
Don't Know	2.12	4.11 218	1.40	0.58	0.00	0.31	0.00	9.17	3.52	0.90	1.10	0.00	1.97
<n3p> Compliance with state or federal regulations or standards su</n3p>	ch as Title	24?		83			2						80
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<n3pp> How, specifically, did this enter into your decision to install/o Other</n3pp>	elamp th 0.00	is lighting 0.00	equipme 0.00	nt? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0.00	0.00	0	0	0.00	0.00	0	0.00	0
<n3r> Compliance with your organization's normal remodeling or li</n3r>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <n3rr> How, specifically, did this enter into your decision to install/or</n3rr>							0	0	0	0	0		0
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<n3s> Were there any other factors we haven't discussed that was in Related</n3s>			cision to		s lighting 100.00			96.31	90.77	99.69	98.31	100.00	93.24
Unrelated	3.71	4.52	3.42	8.99	0.00	5.84	0.00	3.08	9.23	0.31	1.69	0.00	5.46
Other Refused	0.43 0.00	0.23 0.00	0.50	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	1.30 0.00
Don't Know	0.00 561	0.00 278	0.00 283	0.00 106	0.00	0.00 34	0.00	0.00 96	0.00 93	0.00 43	0.00 34	0.00	0.00 102
<n3ss> Using the same Zero to 10 scale, how would you rate the inf</n3ss>	luence of 1.79	this factor	r? 0.00	0.00	0.00	0.00	0.00	23.85	0.00	0.00	0.00	0.00	0.00
6 7	1.76	0.00	2.36	0.00	0.00	0.00	0.00	0.00	9.10	4.29	0.00	0.00	0.00
8	8.88	9.95	8.52	21.21	0.00	0.00	0.00	0.00	6.95	0.00	0.00	0.00	11.69
9 10 Extremely Important	7.67 72.99	73.66	7.40 72.76	0.00 78.79	0.00	100.00	0.00	28.45 45.13	0.00 73.58	95.71	100.00	0.00	77.16
CC1> You indicated earlier that compliance with codes or regulator.	43 y policies	was one	25 of the rea	10 Isons you	did the p	roject. Ho	owever, ju	st now yo	12 u scored	2 I the imp	ortance of	0 complian	ce with
state or federal regulations or standards such as Title 24 in your dec Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<cc1a> You indicated earlier that compliance with codes or regulate compliance with state or federal regulations or standards such as Ti</cc1a>	tle												
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ii .		J	J	J	J	v	v	٧	v	J	U	v	

	ALL	_ED Lamp(s)(%)	LED Reflector(s)(%)	ED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	-ED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<ncc3> You indicated earlier that a regularly scheduled retrofit was companies regularly schedule retrofit or lighting replacement in your</ncc3>	one of the	e reasons		the project							pliance w		
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<p1> What financial calculations does your company typically make</p1>	before pr	oceeding	with the	installatio	n of lighti	ing equip	ment like y	ou install	ed throu	gh the pr	ogram?		
Payback Return on Investment (ROI)	80.00 10.99	37.11 39.47	86.59 6.62	0.00 94.26	0.00	0.00 95.42	0.00	0.00 28.76	20.30 37.07	39.66 0.00	0.00 82.99	96.13 3.87	0.00 18.39
upfront Costs No Calculations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	50.67 0.00	30.78 0.00	53.73	5.74 0.00	0.00	0.00	76.36 0.00	4.79 0.00	44.59 0.00	0.00	0.00	57.79 0.00	28.91 0.00
Don't Know	6.96	21.03	4.80	0.00	100.00	4.58	0.00	66.44	18.34	60.34	17.01	0.00	52.71
N P2A> What is your threshold in terms of the payback or return on it.				es before	deciding	to proce	ed with an	investme		3	3	5	5
0 to 6 months 1 to 2 years	42.06 0.38	75.96 0.00	39.83 0.41	0.00	0.00	0.00	76.36 0.00	0.00	0.00	100.00	0.00	39.46 0.00	0.00
2 to 3 years	57.55 10	24.04	59.76 7	0.00	0.00	0.00	23.64 2	0.00	0.00	0.00	0.00	60.54 4	0.00
<p2b> What is your ROI?</p2b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
<p3> Did the rebate move your project within this acceptable range' Yes</p3>	83.00	98.52	80.89	98.01	51.86	98.38	100.00	100.00	69.58	93.53		79.46	100.00
No Don't Know	3.09 13.91	1.48 0.00	3.31 15.80	1.99 0.00	48.14 0.00	1.62	0.00	0.00	10.19 20.23	6.47 0.00	0.00	3.35 17.19	0.00
n <p4> On a scale of 0 to 10, with a 10 meaning a "Very Important" an</p4>	45	18	27	5	3	4	2	3	7 that the	4	as now in	7 the accer	5
range?	2.89	11.65	1.44	0.00	87.57	19.73	0.00	28.76	0.00	17.77	24.85	0.00	9.47
6	3.05	9.22	2.03	0.00	12.43	77.25	0.00	0.00	0.00	42.57	58.15	0.00	0.00
7 8	29.92 17.20	10.18 21.00	33.19 16.58	0.00 6.81	0.00	0.00	23.64 0.00	4.79 66.44	0.00 74.72	0.00 39.66	0.00	35.62 16.40	28.91 1.58
9 10 VERY IMPORTANT	0.54 45.73	0.19 47.41	0.60 45.46	0.00 93.19	0.00	0.00	0.00 76.36	0.00	0.00	0.00	0.00	0.00 47.98	8.92 51.12
Zero Not at All Important Don't Know	0.33 0.33	0.00	0.38	0.00	0.00	0.00 3.01	0.00	0.00	25.28 0.00	0.00	0.00 17.01	0.00	0.00
n	36	15	21	4	2	3	2	3	4	3	3	5	5
<p3a> The rebate seemed to make the difference between meeting y why is that?</p3a>													
Related Unrelated	100.00	100.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<p3e> Why did it have an impact?</p3e>		1	,		,						0		
Related Unrelated	0.74 99.26	12.87 87.13	100.00	0.00 100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<n41> How many of the ten points would you give to the importance</n41>	e of the p	rogram in	your de	cision?									
0	0.25 0.64	0.88	0.03	0.00	7.15 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08 2.25
2 3	1.96 2.87	1.41 4.98	2.15	5.27 2.46	0.51	0.00	0.00	0.10 11.50	4.91 0.98	2.31 0.00	3.01 0.00	0.00	2.86 5.22
4 5	4.05 42.04	2.56 27.67	4.57 47.07	5.93 15.92	0.00	0.30	0.00	2.73 21.90	8.53 25.83	0.00 34.72	0.29 15.18	3.31 82.75	6.27 34.02
6	7.23	11.04	5.90	9.37	20.44	4.24	0.00	14.18	13.98 3.85	18.02	1.18	0.00	8.08 4.58
8	16.53	18.25	15.92	7.06	24.58	14.42	0.00	28.14	15.38	5.03	31.67	13.53	15.15
9	2.49 11.49	0.64 20.50	3.14 8.33	0.58 41.59	0.48 9.35	1.31	0.00	0.49 17.55	5.65 16.97	6.35 15.15	0.86 5.05	0.00	5.24 12.40
99 n	1.87 561	0.95 278	2.19 283	0.88 106	0.00	0.00 34	0.00	1.92 96	3.91 93	0.00 43	2.17 34	0.00 10	3.85 102
<n42> And how many points would you give to all of these other fact</n42>	ors? 11.49	20.50	8.33	41.59	9.35	12.37	0.00	17.55	16.97	15.15	5.05	0.41	12.40
1	2.49	0.64	3.14	0.58	0.48	1.31	0.00	0.49	5.65	6.35	0.86	0.00	5.24
2 3	16.53 8.59	18.25 11.12	15.92 7.70	7.06 10.95	24.58 8.48	14.42 35.38	0.00	28.14 1.50	15.38 3.85	5.03 18.40	31.67 40.60	13.53 0.00	15.15 4.58
4 5	7.23 42.04	11.04 27.67	5.90 47.07	9.37 15.92	20.44 29.02	4.24 31.99	0.00	14.18 21.90	13.98 25.83	18.02 34.72	1.18 15.18	0.00 82.75	8.08 34.02
6	4.05	2.56 4.98	4.57	5.93 2.46	0.00	0.30	0.00	2.73	8.53 0.98	0.00	0.29	3.31	6.27 5.22
8	2.10	1.41	2.34	5.27	0.51	0.00	0.00	0.10	4.91	2.31	4.74	0.00	2.86
9	0.64 0.31	0.00 1.10	0.87	0.00	0.00 7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25 0.08
99 n	1.67 561	0.73 278	2.00	0.00 106	0.00	0.00 34	0.00	1.92 96	3.91 93	0.00 43	0.44 34	0.00	3.85 102
<n5> Using a likelihood scale from 0 to 10, where 0 is Not at All Like installed exactly the same program qualifying lighting equipment that</n5>		is Extrem	ely Likely	, if THE p	rogram h	ad NOT E	BEEN AVA	ILABLE, v	what is th	ne likeliho	od that yo	ou would h	iave
1 Not at All Likely	14.70	14.50 7.10	14.77	5.00 4.93	7.43 8.78	2.96 11.67	0.00	30.22 5.93	7.90 6.85	4.71 18.77	5.01 17.96	19.25 32.29	18.58 11.54
3	4.10	5.51	3.58	7.62	3.75	11.68	0.00	1.65	3.83	14.55	5.73	0.00	3.43
4 5	3.01 7.14	5.02 9.47	2.27 6.28	7.26 12.29	5.65 0.27	7.54 20.15	0.00 29.69	2.19 4.04	1.37 8.01	4.60 16.00	1.87 8.67	0.00 5.50	3.67 4.13
6 7	2.17 9.45	3.71 4.39	1.60	0.23 11.81	0.00	3.19 0.00	0.00 70.31	7.81 0.00	0.77 6.55	1.67	2.16 0.44	0.00 41.40	2.63 0.00
8	1.57	2.72	1.15	0.07	3.85	0.00	0.00	5.71	2.79	0.54	0.00	0.00	1.71
10 Extremely Likely	2.71	2.94	2.62	0.70	17.03	0.00	0.00	1.30	6.12	0.00	0.00	0.96	3.58
Zero Not at All Likely Don't Know	39.83 0.21	43.86 0.59	38.33 0.07	49.93 0.00	48.72 4.52	42.80 0.00	0.00	40.75 0.00	55.82 0.00	38.00 1.17	54.22 0.00	0.61	50.32 0.00
n <n5aa> Using a likelihood scale from 0 to 10, where 0 is Not at All L</n5aa>	552 ikelv and	273 10 is Extr	279 emelv Lil	104 kelv. if TH	38 E progran	34 m had NO	Z T BEEN A	94 VAILABL	92 E. what i	43 s the like	34 lihood that	9 t vou wou	100 ld have
installed exactly the same lighting equipment at the same time as yo	u	20.07	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
Zero Not at All Likely	3.12 96.88	79.93	100.00	100.00	0.00	0.00	100.00	62.13 37.87	100.00	0.00	0.00	100.00	100.00
n	9	5	4	2	0	0	1	2	1	0	0	1	2

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<n5a> Will you explain in your own words, the role the rebate played 1 2 2 2 3 3 4 4 5 6 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8</n5a>	39.04 43.05	52.08 45.99	33.52	100.00 0.00	0.00	0.00 0.00	0.00	84.57 13.22	24.48 75.52	0.00	0.00	100.00	37.78 41.35
Record Don't Know	9.58 8.33	1.94	12.82 11.85	0.00	0.00	0.00	0.00	2.22 0.00	0.00	0.00	0.00 100.00	0.00	20.87 0.00
<nn5aa> Would you like for me to change your score on the important of the control of the con</nn5aa>		14 ne rebate 1	17 that you g	ave a rat	ing of <n< td=""><td>0 3B> and/c</td><td>or change</td><td>your ratin</td><td>ng on the</td><td>1 likelihood</td><td>l you woul</td><td>d install t</td><td>9 he</td></n<>	0 3B> and/c	or change	your ratin	ng on the	1 likelihood	l you woul	d install t	9 he
same equipment without the rebate which you gave a rating of <n5- 5<="" change="" no="" td=""><td>73.77 18.13</td><td>94.55</td><td>64.97 24.31</td><td>66.67</td><td>100.00</td><td>0.00</td><td>0.00</td><td>91.68 5.13</td><td>87.76 0.00</td><td>100.00</td><td>0.00</td><td>100.00</td><td>65.35 21.07</td></n5->	73.77 18.13	94.55	64.97 24.31	66.67	100.00	0.00	0.00	91.68 5.13	87.76 0.00	100.00	0.00	100.00	65.35 21.07
8 10	1.88 0.25	0.00	2.68 0.00	0.00	0.00	0.00	0.00	0.00 1.41	12.24 0.00	0.00	0.00	0.00	0.00
Record n	5.96 31	1.06 14	8.03 17	0.00	0.00	0.00	0.00	1.77 9	0.00 4	0.00 1	0.00	0.00	13.58 9
<n5b> If the program had not been available, what is the likelihood 1 Not at All Likely 2</n5b>	12.74 8.03	16.79 8.89	11.24	7.39 7.79	12.12 8.78		0.00 0.00	29.11 11.20	5.20 4.22	4.49 18.12	5.01 8.82	19.25	11.23 11.55
3 3	2.85 3.46	1.28	3.43	1.20	4.53 0.18	1.04	0.00	0.43	7.82 2.44	9.21 4.53	7.32 0.64	0.00	2.11
5 6	4.46 0.91	6.87 2.92	3.56	7.72 0.00		21.26 0.00	0.00	1.31 7.52	3.49 0.00	2.14 0.00	6.21 0.00	4.90 0.00	2.24 0.37
7	8.51 0.73	2.09 0.79	0.70	1.98 0.62	0.00 3.85	0.00	70.31 0.00	0.72 0.32	0.00 2.48	0.00 0.54	0.44	41.40 0.00	1.07 0.78
9 10 Extremely Likely	0.01 0.59	0.04 1.73	0.00 0.17	0.00 0.29		0.00	0.00 29.69	0.10 0.38	0.00	0.00	0.00	0.00	0.00
Zero Not at All Likely Don't Know	57.50 0.22 552	52.17 0.60 273	59.48 0.07 279	61.50 0.00 104	58.60 4.52 38	50.24 0.00 34	0.00 0.00 2	47.16 0.03 94	74.35 0.00 92	59.79 1.17 43	71.56 0.00 34	0.00 9	0.00 100
<td1> If the program had not been available, how likely is it that you Definitely would have within one year</td1>		ave replac	ced your							0.44	3.94	42.61	11.58
Probably would have (within one year) 50-50 chance you would (within one year)	5.87 15.53	8.12 24.76	5.05	6.12	18.35	9.55	0.00	5.90 16.74	6.67	13.72	5.23	4.93	3.34 16.18
Probably not (within one year) OR Definitely not (within one year)	19.80 44.71	19.72 43.98	44.97	23.87 37.85	36.78 42.53	27.21 15.45	0.00	8.40 65.32	17.28 51.22	38.65 33.12	53.20 20.60	0.18 52.28	19.76 47.46
Don't Know	0.66 541	0.38 265	0.77 276	0.00 103	0.00 36	0.00 34	0.00	0.96 91	0.37 92	0.00 42	0.00 34	0.00	1.67 100
<td2> If the program had not been available, how likely is it that yo Definitely would have within three years Probably would have (within three years)</td2>	10.09 21.84	10.07 21.18	10.10 22.12	8.11 33.48	5.00 29.15	4.89 17.08	0.00 0.00	of when y 15.88	12.78	5.41	7.31	0.00	14.73
Frobably would have (within three years) 50-50 chance you would (within three yea Probably not (within three years) OR	21.84 17.40 28.83	21.18 25.49 20.87		20.64 16.81	29.15 16.18 37.61	51.25 19.47	0.00	17.48 19.28	15.99 22.12 17.28	23.04 23.09 28.86	15.65 48.98	0.00 56.60	15.77 14.55 23.02
Definitely not (within three years) Ork	21.69	21.89		20.49	8.96	7.31	0.00	34.95	31.83 0.00	9.59 0.00	9.40	1.07	31.93 0.00
<td3> If the program had not been available, how likely is it that you</td3>	508	251	257 ced your	99	34	34	0	84 f when yo	87	41	33	6	90
Definitely would have within five years Probably would have (within five years)	17.45 26.00	16.65 32.73	17.79 23.13	21.29 33.52	40.79 35.21	17.91 34.78	0.00	4.19 30.01	20.38 19.39	17.51 56.10	10.54 22.99	33.75 12.51	12.29 23.43
50-50 chance you would (within five year Probably not (within five years)	22.92 14.82	14.58 15.57	14.50	10.28 18.30	0.66	24.76 19.61	0.00	11.79 16.02	26.85 7.46	10.11 5.60	14.47 45.45	52.67 0.00	21.59 14.23
Definitely not (within five years) Don't Know	18.69 0.12 433	20.47 0.00 211	17.93 0.17 222	16.61 0.00 82	9.74 0.00 30	2.94 0.00 29	0.00 0.00	38.00 0.00 70	25.61 0.32 79	9.02 1.66 34	6.55 0.00 30	1.07 0.00	28.46 0.00 73
<n9bb> you could explain in your own words the role the age/condition</n9bb>		existing								1	2	0	4
<n6> Now I would like you to think one last time about what action y MOST likely to do?</n6>				rogram I									
Installed fewer units Installed standard efficiency equipment	1.90	2.00		2.48	0.00	5.25 25.01	0.00	0.99 18.97 13.05	0.68 22.55	0.00 7.76	0.00	0.00	4.65 9.63
Installed equipment more efficient than Done nothing (keep the existing equipmen Done the exact same thing we did through	24.99 36.38 13.64	14.87 38.35	28.53 35.69	17.08	4.71	6.12	69.43				12.34	0.65	
		0.46	15 11	36.85	40.34	37.87	0.00	44.65	14.21 36.15	19.41 50.14	27.09 34.53	54.67 12.88	12.31 53.46
Repair/rewind or overhaul the existing e	10.91	9.46 13.04 0.53	10.17	6.07 8.67	24.29 19.66	3.13 16.12	21.49 0.00	44.65 8.21 14.14	36.15 16.73 9.44	19.41 50.14 7.34 15.35	27.09 34.53 6.18 19.50	54.67 12.88 31.40 0.00	53.46 4.24 15.72
Repair/rewind or overhaul the existing e Do Something else (specify) Don't Know n	10.91 0.26 0.35 561			6.07	24.29	3.13	21.49	44.65 8.21	36.15 16.73	19.41 50.14 7.34	27.09 34.53 6.18	54.67 12.88 31.40	53.46 4.24
Do Something else (specify) Don't Know	0.26 0.35	13.04 0.53 1.25	10.17 0.17 0.04 283	6.07 8.67 0.08 0.00	24.29 19.66 0.00 0.00 38	3.13 16.12 0.00 6.51 34	21.49 0.00 9.08	44.65 8.21 14.14 0.00 0.00	36.15 16.73 9.44 0.25 0.00	19.41 50.14 7.34 15.35 0.00 0.00	27.09 34.53 6.18 19.50 0.00 0.35	54.67 12.88 31.40 0.00 0.41 0.00	53.46 4.24 15.72 0.00 0.00
Do Something else (specify) Don't Know	0.26 0.35 561 0.00 34.25 21.88	13.04 0.53 1.25 278 0.00 88.45	10.17 0.17 0.04 283 0.00 24.21 25.93	6.07 8.67 0.08 0.00 106 0.00 100.00	24.29 19.66 0.00 0.00 38 0.00 0.00 0.00	3.13 16.12 0.00 6.51 34 0.00 0.00 0.00	21.49 0.00 9.08 0.00 3 0.00 0.00 0.00	44.65 8.21 14.14 0.00 0.00 96 0.00 69.63 0.00	36.15 16.73 9.44 0.25 0.00 93 0.00 58.34 33.91	19.41 50.14 7.34 15.35 0.00 0.00 43 0.00 0.00 0.00	27.09 34.53 6.18 19.50 0.00 0.35 34 0.00 0.00 0.00	54.67 12.88 31.40 0.00 0.41 0.00 10 0.00 0.00 0.00	53.46 4.24 15.72 0.00 0.00 102 0.00 22.65 25.57
Do Something else (specify) Dort Know	0.26 0.35 561 0.00 34.25 21.88 0.00	13.04 0.53 1.25 278 0.00 88.45 0.00 0.00	10.17 0.17 0.04 283 0.00 24.21 25.93 0.00 17.91	6.07 8.67 0.08 0.00 106 0.00 100.00 0.00 0.00	24.29 19.66 0.00 0.00 38 0.00 0.00 0.00 0.00 0.00	3.13 16.12 0.00 6.51 34 0.00 0.00 0.00 0.00 0.00	21.49 0.00 9.08 0.00 3 0.00 0.00 0.00 0.00 0.00 0.00	44.65 8.21 14.14 0.00 0.00 96 0.00 69.63 0.00 0.00 30.37	36.15 16.73 9.44 0.25 0.00 93 0.00 58.34 33.91 0.00 7.75	19.41 50.14 7.34 15.35 0.00 0.00 43 0.00 0.00 0.00 0.00 0.00 0.00	27.09 34.53 6.18 19.50 0.00 0.35 34 0.00 0.00 0.00 0.00	54.67 12.88 31.40 0.00 0.41 0.00 10 0.00 0.00 0.00 0.	53.46 4.24 15.72 0.00 0.00 102 0.00 22.65 25.57 0.00 18.38
Do Something else (specify) Don't Know a <n6a> How many fewer units would you have? 0.25% less 26-50% less 51-75% less 76-100% less 76-100% less</n6a>	0.26 0.35 561 0.00 34.25 21.88 0.00	13.04 0.53 1.25 278 0.00 88.45 0.00	10.17 0.17 0.04 283 0.00 24.21 25.93 0.00 17.91	6.077 8.677 0.088 0.000 100.000 100.000 0.000 0.000 0.000 0.000	24.29 19.66 0.00 0.00 38 0.00 0.00 0.00 0.00 0.00 0	3.13 16.12 0.00 6.51 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00	21.49 0.00 9.08 0.00 3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	44.65 8.21 14.14 0.00 96 0.00 69.63 0.00 0.00 30.37 0.00	36.15 16.73 9.44 0.25 0.00 93 0.00 58.34 33.91 0.00 7.75 0.00	19.41 50.14 7.34 15.35 0.00 0.00 43 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	27.09 34.53 6.18 19.50 0.00 0.35 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00	54.67 12.88 31.40 0.00 0.41 0.00 10 0.00 0.00 0.00 0.	53.46 4.24 15.72 0.00 0.00 102 0.00 22.65 25.57
Do Something else (specify) Don't Know A SN6A> How many fewer units would you have? 0.25% less 26.50% less 51.75% less 76-100% less Other Refused Don't Know	0.26 0.35 561 0.00 34.25 21.88 0.00 16.92 0.00 26.95	13.04 0.53 1.25 278 0.00 88.45 0.00 0.00 11.55 0.00 0.00 6	10.17 0.17 0.04 283 0.00 24.21 25.93 0.00 17.91 0.00 31.94	6.07 8.67 0.08 0.00 100 0.00 100.00 0.00 0.00 0.0	24.29 19.66 0.00 0.00 38 0.00 0.00 0.00 0.00 0.00 0	3.13 16.12 0.00 6.51 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00	21.49 0.00 9.08 0.00 3 0.00 0.00 0.00 0.00 0.00 0.00 0.00	44.65 8.21 14.14 0.00 0.00 96 0.00 69.63 0.00 0.00 30.37	36.15 16.73 9.44 0.25 0.00 93 0.00 58.34 33.91 0.00 7.75	19.41 50.14 7.34 15.35 0.00 0.00 43 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	27.09 34.53 6.18 19.50 0.00 0.35 34 0.00 0.00 0.00 0.00 0.00	54.67 12.88 31.40 0.00 0.41 0.00 10 0.00 0.00 0.00 0.	53.46 4.24 15.72 0.00 0.00 702 0.00 22.65 25.57 0.00 18.38 0.00 33.41
Do Something else (specify) Don't Know R	0.26 0.35 561 0.00 34.25 21.88 0.00 16.92 0.00 26.95 15 idering as	13.04 0.53 1.25 278 0.00 88.45 0.00 0.00 11.55 0.00 0.00 6 s an alterr	10.17 0.17 0.04 283 0.00 24.21 25.93 0.00 17.91 0.00 31.94 9	6.07 8.67 0.08 0.00 100.00 100.00 0.00 0.00 0.00	24.29 19.66 0.00 0.00 38 0.00 0.00 0.00 0.00 0.00 0	3.13 16.12 0.00 6.51 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00	21.49 0.00 9.08 0.00 3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	44.65 8.21 14.14 0.00 0.00 96 0.00 69.63 0.00 0.00 30.37 0.00 0.00 30.37	36.15 16.73 9.44 0.25 0.00 93 0.00 58.34 33.91 0.00 7.75 0.00	19.41 50.14 7.34 15.35 0.00 0.00 43 0.00 0.00 0.00 0.00 0.00 0	27.09 34.53 6.18 19.50 0.00 0.35 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	54.67 12.88 31.40 0.00 0.41 0.00 10 0.00 0.00 0.00 0.	53.46 4.24 15.72 0.00 0.00 102 0.00 22.65 25.57 0.00 18.38 0.00 33.41 5
Do Something else (specify) Don't Know N6A> How many fewer units would you have?	0.26 0.35 567 0.00 34.255 21.88 0.00 16.92 0.00 26.95 idering as 0.00 0.00 76.51 0.000 20.69	13.04 1.25 278 0.00 88.45 0.00 11.55 0.00 11.55 0.00 0.00 6.8 an alterr 0.00 6.87 0.00 20.55	10.17 0.17 0.04 283 0.00 24.21 25.93 0.00 17.91 0.00 31.94 0.00 0.00 0.00 78.25 0.00	6.07 8.67 0.08 0.00 100.00 0.00 0.00 0.00 0.00 0.	24.29 19.66 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3.13 16.12 0.00 6.51 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	21.49 0.00 9.08 0.00	44.65 8.21 14.14 0.00 0.00 96 0.00 69.63 0.00 0.00 0.00 30.37 0.00 0.00 30.37 0.00 0.00	36.15 16.73 9.44 0.25 0.00 93 0.00 58.34 33.91 0.00 0.00 4 0.00 0.00 0.00 73.94 0.00	19.41 50.14 7.34 15.35 0.00 0.0	27.09 34.53 6.18 19.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	54.67 12.88 31.40 0.00 0.41 0.00 0.00 0.00 0.00 0.00	53.46 4.24 15.72 0.00 0.00 22.65 25.57 0.00 33.41 5 0.00 0.00 68.40 0.00 28.01
Do Something else (specify) Don't Know *N6A> How many fewer units would you have?	0.26 0.35 567 0.00 34.25 21.88 0.00 16.92 0.00 26.95 15 idering as 0.00 76.51 0.00 20.69	13.04 0.53 1.255 278 0.000 88.45 0.000 0.00 11.55 0.000 6 s an alterr 0.000 0.00 0.000 0.000 0.000 0.000 0.000 0.000 0.000	10.17 0.14 0.04 283 0.00 24.21 25.93 0.00 17.91 0.00 31.94 9 active? 0.00 78.25 0.00 20.72 355 re failing	6.07 8.67 0.08 0.00 100.00 100.00 0.00 0.00 0.00	24.29 19.66 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3.13 16.12 0.00 6.51 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	21.49 0.00 9.08 0.00	44.65 8.21 14.14 0.00 0.00 96 0.00 0.00 0.00 0.00 0.00 0	36.15 16.73 9.44 0.25 0.00 93 0.00 58.34 33.91 0.00 0.00 4 0.00 7.75 0.00 0.00 7.394 0.00 24.13	19.41 50.14 7.34 15.35 0.00 0.00 0.00 0.00 0.00 0.00 0.00	27.09 34.53 6.18 19.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	54.67 12.88 31.40 0.00 0.41 0.00 10 0.00 0.00 0.00 0.	53.46 4.24 15.72 0.00 0.00 702 0.00 22.65 25.57 0.00 18.38 0.00 33.41 5 0.00 0.00 68.40 0.00 28.01
Do Something else (specify) Don't Know (N6A> How many fewer units would you have? 0.25% less 28-50% less 15:175% less 76-100% less Albert Refused Don't Know (Nese Refused Don't Know Less efficient than code None Other Refused Don't Know Less efficient fan code None Other Refused Don't Know Don't Know Don't Know Albert Refused Don't Know Don't Refused Don't Know Don't Refused Don't Know Do	0.26 0.355 567 0.000 34.255 21.88 0.000 16.925 0.000 0.000 76.51 0.000 0.000 0.000 0.000 76.51 0.000 0.000 0.000	13.04 0.53 1.25 278 0.00 88.45 0.00 0.00 11.55 0.00 6 6 s an atter 0.00 68.87 0.00 68.87 0.00	10.17 0.17 0.04 283 0.00 24.21 25.93 0.00 31.94 9 active? 0.00 78.25 0.00 20.72 35 re failing	6.07 8.67 0.08 0.000 100.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.00000 0.0000 0.00000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.0000	24.29 19.66 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3.13 16.12 0.00 0.51 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	21.49 0.00 9.08 0.00	44.65 8.21 14.14 0.00 0.00 96 0.00 69.63 0.00 0.00 0.00 30.37 0.00 0.00 30.37 0.00 0.00	36.15 16.73 9.44 0.25 0.00 93 0.00 58.34 33.91 0.00 0.00 4 0.00 0.00 0.00 73.94 0.00	19.41 50.14 7.34 15.35 0.00 0.0	27.09 34.53 6.18 19.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	54.67 12.88 31.40 0.00 0.41 0.00 0.00 0.00 0.00 0.00	53.46 4.24 15.72 0.00 0.00 22.65 25.57 0.00 33.41 5 0.00 0.00 68.40 0.00 28.01
On Something else (specify) Don't Know (N6A> How many fewer units would you have?	0.26 0.35 561 0.00 0.35 21.88 0.00 16.92 0.00 26.95 155 idering as 0.00 76.51 0.00 20.69 65 65 40 17.54 9.23	13.04 0.53 1.255 278 0.00 88.45 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	10.17 0.17 0.04 283 0.00 24.21 25.93 0.00 17.91 0.00 31.94 9 active? 0.00 0.00 20.72 355 re failing 0.00 21.53 9.19 9.20	6.07 8.67 0.08 6.07 706 0.00 0.00 0.00 0.00 0.00 0.00	24.29 19.66 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3.13 16.12 0.00 6.51 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	21.49 0.00 9.08 0.00	44.65 8.21 14.14 0.00 0.00 96 69.63 0.00 0.00 30.37 0.00 0.00 0.00 30.39 10.00 30.39 15.65 16.63	36.15 16.73 9.44 0.25 0.00 93 0.00 58.34 33.91 0.00 7.75 0.00 0.00 0.00 73.94 0.00 24.13 8 0.00 0.00 7.57 2.866 4.45	19.41 50.14 7.34 15.35 0.00 0.0	27.09 34.53 6.18 19.50 0.00 0.35 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	54.67 12.88 31.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	53.46 4.24 15.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Do Something else (specify) Don't Know A *N6A> How many fewer units would you have? 0.25% less 26.50% less 51.75% less 76-100% less Refused Don't Know A **N6B> Can you tell me what model or efficiency level you were const Less efficient than code A **None Refused Don't Know **None Refused Don't Know **None Refused Don't Know **None Refused Don't Know **Tellow than than to the company to the compan	0.26 0.355 58f1 0.00 0.355 21.88 0.00 0.00 26.955 155 idering as 0.00 76.51 0.00 26.99 4.17.54 17.54 19.23 10.07 4.07 4.07	13.04 0.53 1.255 278 0.00 88.45 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	10.17 0.17 0.19 0.04 283 0.00 24.21 25.93 0.00 31.94 9 ative? 0.00 78.25 0.00 20.72 35 re failing 0.00 21.53 9.19 9.20 4.60 24.40 0.60	6.077 8.6767 0.08080 0.00000 0.000000 0.000000 0.000000 0.000000	24.29 19.66 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3.13 16.12 0.00 6.51 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	21.49 0.00 9.08 0.00	44.65 8.21 14.14 0.00 0.00 96 96,63 0.00 0.00 30.37 0.00 0.00 30.37 0.00 0.00	36.15 16.73 9.44 0.25 0.000 58.34 33.91 0.000 4 0.000 24.13 0.000 24.13 0.0000 0.0000 0.00	19.41 50.14 7.34 15.35 0.00 0.00 0.00 0.00 0.00 0.00 0.00	27.09 34.53 6.18 19.50 0.00 0.35 34 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	54.67 12.88 31.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	53.46 4.24 15.72 0.00 10
Do Something else (specify) Don't Know NGA> How many fewer units would you have?	0.26 0.35 567 0.00 0.00 16.92 16.92 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	13.04 0.53 1.255 278 0.00 0.00 0.00 11.55 0.00 0.00 0.00 0.0	10.17 0.17 0.07 0.04 283 0.00 24.21 25.93 0.00 17.91 0.00 31.94	6.07	24.29 24.29	3.13 13 16 12 12 16 16 16 16 16 16 16 16 16 16 16 16 16	21.49 (0.00	44.65.8 8.21 14.14 0.00 0.00 0.00 0.00 0.00 0.00 0.	36.15 16.73 9.44 0.25 9.44 0.25 0.00 9.3 0.00 0.00 0.00 0.00 0.00 0.00	19.41 7.34 15.32 65 6.00 0.00 0.00 0.00 0.00 0.00 0.00 0	2709 2709 3453 6.18 1950 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	54.67 (2.88 31.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	53.46 4.24 15.72 0.00 10.00 22.65 25.57 0.00 33.41 5 0.00 33.41 5 0.00 8.77 0.00 8.77 12 11.91 3.96
Do Something else (specify) Don't Know N6A> How many fewer units would you have? 0-25% less 26-50% less 76-100% less 76-100% less Other Retused Don't Know Note Retused Don't Know Note Retused Don't Know Note Note Note Note Note Something system wo Exes efficient than code Don't Know 1 Retused Don't Know 1 Retused Don't Know 1 Retused Don't Know 1 Serze> How many more years do you think your lighting system wo 1 2 3 4 5 6 7 8 8 8 10 10	0.262 0.3555 0.000000000000000000000000000000	13304 0 1 1 2 2 2 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	10.171 0.171 0.171 0.171 0.171 0.004 283 0.000 31.94 0.000 31.94 0.000 31.94 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	6.07	24.29 (19.60 to 19.60	3.113 (1.101 (1.	21.49 (0.00	44 65 8.27 1 14.14 0.00 98 6 2.27 1 14.14	36.15 16.77 9.44 0.25 6.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	19.41 7.34 15.52 10.00 0.00 0.00 0.00 0.00 15.34 15.52 0.00 0.00 0.00 0.00 0.00 0.00 0.00	27.99 34.53 6.18 19.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00	54.67 (2.88 31.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	53.46 4.24 4.24 4.24 4.26 0.00 702 2.265 2.57 0.00 33.41 5 0.00 0.00 33.41 7 2.57 0.00 0.00 33.41 7 2.57 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
Do Something else (specify) Don't Know *N6A> How many fewer units would you have?	0.26	13.04 of 1.25	10.171 0.004 283 0.000 283 0.000 17.91 0.004 283 0.000 17.91 0.000 17.91 0.000 18.25 0.000 20.772 36 24.400 20.772 24.400 24.400 24.400 25.400 26.4000 26.4	607 C C C C C C C C C C C C C C C C C C C	24.29 19.66 6.00 19.60 1	3.113 16.12	21.49 (0.00	44 65 6 27 1 14 14 14 14 16 16 16 17 14 14 14 16 16 16 17 16	36.15 16.77 9.44 0.25 16.75 16	19.41 7.34 15.55 2.65 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	2709 2709 2709 2709 2709 2709 2709 2709	54.67 (2.88 S1.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	53.46 4.24 15.72 0.00 10
Do Something else (specify)	0.265	130,000 before 12,255 be 13,300 be 14,300 be 15,300 be 1	10.171 0.000	607 867 786 867 786 867 786 867 786 867 786 867 786 867 867	24.29 (19.00 (19	31131	21.49 (2.00	44 65 8 211 14 14 0.000 98 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36.15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19.41 7.34 15.35 0.00 0.00 0.00 0.00 0.00 0.00 0.00	2709 2709 2709 2709 2709 2709 3453 618 1530 000 000 0355 34 000 000 000 000 000 000 000 000 000	54.67 (2.88 31.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	53.46 4.24 15.72 0.00 1702 10.00 1702 10.00 10.0
Do Something else (specify) Both Know N6A> How many fewer units would you have?	0.26 95 95 95 95 95 95 95 95 95 95 95 95 95	13040 1.55 1.55 1.55 1.55 1.55 1.55 1.55 1.5	10.171	607 8 6 6 7 8 6 7	24.29 (19.66) 19.666 10.000 10.0000 10	3.13.13.14.14.14.14.14.14.14.14.14.14.14.14.14.	21.49 (0.00	44 65 6 27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36.15 1 16.73 9.44 0.25 2 16.75 16.7	19.41 7.34 15.35 60.14 7.34 15.35 60.14 15	2709 2709 2709 2709 2709 2709 2709 2709	54.67 (2.88 31.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	53.46 4.24 15.72 0.00 0.00 10.
Do Something else (specify) Dort Know Port Know	0.265 0.000	130,000 1.25 27 37 30 4.25 2.24 2.24 4.25 2.24 2.25 4.15 1.25 2.27 3 4.25 2.25 2.27 3 4.25 2.25 2.27 3 4.25 2.25 2.27 3 4.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25	10.171	607 8 6 6 7 8 6 7	24.29.20 19.66 0.00 0.00 0.00 0.00 0.00 0.00 0.00	3.113.1000 .0000	21.44 0.00 0.00 0.00 0.00 0.00 0.00 0.00	44 65 6 27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	38.15 1 16.73 9.44 1 0.22 9 1 16.73 9.44 1 0.22 1 19.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19.41 7.34 15.35 6.00 10	2709 2709 2709 2709 2709 2709 2709 2709	54.67 (2.88 31.40 0.00 0.00 0.00 0.00 0.00 0.00 0.00	53.46 4.24 15.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<er9> In your opinion, based on the economics of operating this equal to the economics of economics of economics of economics of economics.</er9>	3.08	0.00	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
5 99	36.61 60.32	0.00	36.61 60.32	0.00		0.00	0.00	0.00	37.77 62.23	0.00	0.00	0.00	0.00
n <er15> Can you briefly describe the specific code/regulatory require</er15>					0	0	0	0	2	0	0	0	7
Related Unrelated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	100.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<er19> Can you briefly describe the specific company policies regarded. Related</er19>	ding regu	lar/norm	al mainter 0.00	nance/rep	lacement 0.00	policy(ie	s) that we	re relevan	t to this	project?	0.00	0.00	0.00
Unrelated Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<pp1> What do you believe the PROGRAM'S primary strengths are? Improved lighting quality</pp1>	11.92	17.43	9.99	24.09	35.39	12.46	0.00	12.38	11.16	9.43	31.26	3.84	8.87
Ease of participation Reliability of program	6.40 0.88	10.89 0.67	4.83 0.95	23.26 1.76	2.57 0.00	8.73 0.05	0.00	8.25 0.59	11.14 3.57	7.28 1.14	7.61 0.00	0.00	5.84 1.20
Financial benefits (upfront costs, savings, payback, ROI) Energy efficiency/environmental impacts	48.63 37.94	51.09 45.44	47.77 35.31	57.19 52.05	77.06 60.66	43.53 42.66	0.00 78.51	50.13 32.69	63.19 27.24	59.30 41.91	56.14 33.72	34.24 37.67	50.51 35.36
No impact Program awareness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 5.86	0.00 7.90	0.00	0.00	0.00	0.00
Educational benefit Other	13.63	9.33	15.14	8.80	0.71	6.09	69.43	5.17 24.38	7.84	1.30	2.24	32.44	8.22 17.41
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	7.64 559	2.21 277	9.55 282	0.00 106	0.27 38	2.95 34	21.49 3	1.02 96	0.00 93	0.41 43	2.04 34	27.97 10	0.19 102
<pp2> What concerns do you have about the program, if any? (IF NE None</pp2>	49.88	61.39	u view as 46.26	55.41	62.85	95.82	9.08	56.44	56.15		63.56	17.52	58.65
Program will not continue Problems with contractors	22.28 0.00	9.81	26.21 0.00	8.59 0.00	0.00	0.00	90.92	1.70 0.00	10.13	0.00	0.00	78.09 0.00	1.66 0.00
Rebate amount will decrease Insufficient advertisement/program awareness	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dissatisfaction with equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Too time consuming or cumbersome paperwork Lack of follow up	1.75 0.76	3.37 0.80	1.24 0.74	10.00 2.94	6.03 0.00	0.00	0.00	0.00	6.06 4.67	9.08 2.72	0.00	0.00	0.00
Source of program funding Rebate too small	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate too small Expand program scope	0.00 2.38	0.00	0.00 2.71	0.00	0.00 1.34	0.00	0.00	0.00 3.38	0.00	0.00 0.55	0.00 4.68	0.00	0.00 5.20
Savings are not what were expected Other	2.09 15.38	2.11 10.41	2.08 16.95	0.10 9.42	7.07 1.12	0.00	0.00	3.95 20.41	0.00	11.27 6.46	1.78 28.36	0.00 4.39	3.30 23.88
Refused	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
Don't Know	0.06 467	0.11 231	0.04 236	0.15 90	31	0.00 27	0.00	0.14 80	0.02 80	0.16 34	0.02 28	0.00	0.07 86
<pp4> On a scale of 0 - 10, where 0 is Completely Dissatisfied and 1 1 Completely Dissatisfied</pp4>	0.26	0.00	0.34	0.00	0.00	your over 0.00	0.00	0.00	0.00	6.42	0.00	0.00	0.00
2 3	0.03	0.10 0.62	0.00	0.39	0.00 5.00	0.00	0.00	0.00	0.00	0.00 0.74	0.00	0.00	0.00
4 5	0.16 1.64	0.43 2.28	0.07 1.42	0.00	0.00 3.81	2.22 8.88	0.00	0.00	0.00	0.00 9.27	0.64 6.82	0.00	0.00
6 7	1.03 9.58	0.95 3.71	1.05	0.81 2.68	2.62	0.00	0.00 21.49	1.13 3.71	1.64	0.00 7.25	0.00 3.01	0.00 28.09	2.22 4.29
8	13.82	19.59	11.80	11.89	16.20	37.93	0.00	19.35	11.39	22.38	28.05	3.31	13.08
9 10 Completely Satisfied	11.81 61.08	4.95 66.03	14.21 59.35	9.47 68.89	5.81 63.17	2.00 48.97	0.00 78.51	3.96 71.85	12.55 73.25	8.33 45.62	0.00 61.48	22.46 46.14	12.55 67.60
Zero Completely Dissatisfied n	0.41 559	1.36 277	0.08 282	5.47 106	0.00	0.00	0.00	0.00 96	0.65 93	0.00 43	0.00	0.00	0.00 102
<pp5> Why do you say that? To replace old/outdated lighting equipment</pp5>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As part of a planned remodeling/build-out/expansion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
To gain more control over how the mequipment was used Maintenance downtime/associated expenses for old equip were too high	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Had process problems and were seeking a solution To improve lighting equipment performance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
To improve the quality of the lighting in your facility Lack of follow up	0.00 0.76	0.00	0.00	0.00 2.94	0.00	0.00	0.00	0.00	0.00 4.67	0.00 2.72	0.00	0.00	0.00
To improve visibility/plant safety Comply w/co. policies regarding lighting retrofits/remodeling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Comply w/co. policies regarding lighting retrofits/remodeling To get a rebate from the program	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
To protect the environment Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0	0	0	0	0	0	0	0	0	0	0	0	0
<pp6> The program you participated in was run by an implementer, No</pp6>	97.40	100.00	95.07	100.00	100.00	100.00	programs 0.00	100.00	100.00	0.00	100.00	0.00	100.00
Don't Know	2.60 14	0.00	4.93 4	0.00	0.00 4	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
<pp8> Please consider your recent experience with the program run two that stand out? Any there attributes or services that seemed bet</pp8>		plemente	r versus y	our past	experien	ce with th	e utility ru	n progran	ns. Are	there any	difference	s betwee	n the
Related Unrelated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Retused Don't Know	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PP10> The program you participated in was run by &IOU, have you	participa	0 ted in pro		n by gove	ornments,	0 institutio	ns, or other	o r indepen	0 dent firn	ns in the p	ast three	ears? (s	elect all
that apply) Local Government	4.16	0.02	5.55	0.08	0.00	0.00	0.00	0.00	0.64	0.00	0.00	12.93	2.85
State Government or Institution Independent Firm	3.96	0.00	5.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.45	12.93	0.00
Other	89.56	98.76	86.49	98.05	98.32	98.09	100.00	99.44	99.36	97.87 0.00	87.23	70.01	94.96
Refused Don't Know n	0.00 5.47	0.00	7.02	0.00	0.00 1.62	0.00 1.91	0.00	0.42	0.00	2.13	0.00 3.32	0.00 17.06	2.10
	545	267	278	104	34	33	3	93	92	43	33	9	101

<pp12> Please consider your experiences with the program run by an</pp12>	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)		LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small (%)
two that stand out? Are there attributes or services that seemed bette	r												
Related Unrelated	65.26 0.00	84.56 0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	34.74	15.44	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00
PP14> Please consider your experiences with the program run by a g	overnm	ent or inst	titution ve	rsus vou	r recent e	xperience	with the	ıtility run ı	orogram	. Are ther	e anv diff	erences	1
between the two that stand out? Are there attributes that seemed bett	ter in o 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrelated	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
<pp16> Which entity, the utility or the implementer was more effective</pp16>	e in supp	orting yo	ur organi	zation's c	lecision n	naking pro	ocess?						
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
<pp18> How significant was this difference, would you say</pp18>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
<pp20> Which entity had a better technical understanding of the energy</pp20>	gy use a	t your fac	ility and p	orovided 0.00	the best t	echnical a	0.00	in specify	o.00	project? 0.00	0.00	0.00	0.0
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
<pp22> How significant was this difference, would you say</pp22>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
n <pp24> Which entity, the utility or the implementer was more effective.</pp24>	0	0	0	0	0	0	0	0	0	0	0	0	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
n PP26> How significant was this difference, would you say	0	0	0	0	0	0	0	0	0	0	0	0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
n PP3> Do you have any comments on the current incentive structure	of the p	rogram?	-	U	0	0	0	0	0	0	0	0	
n	559	277	282	106	38	34	3	96	93	43	34	10	102
1	4.28	5.60	3.99	0.19	0.00	31.71	0.00	0.00	7.30	24.03	15.57	0.00	2.4
2 3	3.66	6.44 15.63	3.05 9.56	0.00 20.66	0.00 39.59	28.90 29.98	0.00	3.02 5.85	0.00 33.57	18.05 28.80	0.00	0.85	6.0 15.2
4	9.09	2.76	10.48	8.97	8.04	0.00	0.00	0.00	32.62	7.38	58.94	0.00	4.3
5 6	12.37 13.30	23.77 1.21	9.86 15.97	22.48 0.00	1.54 0.00	0.00	0.00	39.60 2.65	14.49 0.00	0.00	0.00	0.00 34.81	26.4
7 8	2.73 4.88	1.07 4.25	3.10 5.02	4.27 10.52	0.00	0.00	0.00	0.00 3.54	0.00 6.61	0.00	0.00	6.78	0.2 13.7
9	0.63	0.07	0.76	0.00	1.14	0.00	0.00	0.00	0.00	17.69	0.00	0.00	0.0
10 18	7.98	7.47 0.24	8.09 0.00	1.11	11.52 0.00	0.00	0.00	14.16 0.53	1.36 0.00	0.00	13.17	0.00	21.3
20 25	0.06	0.12 2.57	0.05	0.00	0.00 38.17	0.00	0.00	0.00	0.00	0.00 4.06	0.00	0.00	0.0
99	29.64	28.80	29.82	31.30	0.00	9.41	100.00	30.64	3.29	0.00	12.32	57.56	8.6
n <lt3> During this time, how many times has your organization partici</lt3>	117 ipated in	these pro	65 ogram(s)?	20	6	5	1	19	20	9	6	5	24
7 to 10 times, or more 4 to 7 times	0.61 4.20	2.57 0.50	0.17	0.50	38.17	0.00	0.00	0.00	0.00	4.06 0.00	0.00	0.00	0.0
2 to 4 times	47.97	50.04	47.51	52.26	22.24	67.06	0.00	51.94	46.86	46.89	22.63	42.44	62.0
less than 2 times Don't Know	18.42 28.80	19.52 27.36	18.18 29.12	14.92 31.30	39.59 0.00	31.71 1.24	0.00	16.89 30.64	47.81 4.78	49.05 0.00	74.51 2.86	0.00 57.56	13.5 8.6
n	117	52	65	20	6	5	1	19	20	9	6	5	24
<ca6> What type of equipment did you install through this (these) pro- Indoor lighting</ca6>	gram(s) 81.45	94.23	78.81	91.44	61.83	100.00	0.00	100.00	99.18	79.47	39.33	100.00	70.0
Cooling equipment	2.73	3.83	2.50	0.00	39.59	0.00	0.00	0.00	17.20	2.20	0.00	0.00	0.0
Natural gas equipment (Water heater/furnace/appliances) Insulation or windows	0.00	0.00 1.69	0.00 1.32	0.00 6.95	0.00	0.00	0.00	0.00	0.00	0.00 21.82	0.00	0.00	0.0
Refrigeration Industrial process equipment	10.25	5.62 0.00	11.21	0.00	38.17	0.00	0.00	4.03	0.00	28.08	74.23 0.00	0.00	0.4
Greenhouse heat curtains	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Outdoor lighting Food Service Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
HVAC	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
None	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
				0.00	0.00								
Other	4.84	2.25	5.38	8.56	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	12.7
Other Refused Don't Know	4.84 0.00 5.82	2.25 0.00 0.00	5.38 0.00 7.02	8.56 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00	0.00	0.00	0.00	12.7 0.0 17.2
Other Refused	4.84 0.00	2.25 0.00	5.38 0.00	8.56 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.7
Other Refused Don't Know n ctT6> What factors led you to participate in these programs/? Rebate/incentive	4.84 0.00 5.82 95 38.81	2.25 0.00 0.00 41	5.38 0.00 7.02 54 43.82	8.56 0.00 0.00 15	0.00 0.00 0.00 6	0.00 0.00 0.00 3	0.00 0.00 0.00 0	0.00 0.00 0.00 16	0.00 0.00 16	0.00 0.00 9	0.00 0.00 5	0.00 0.00 3 57.31	12.7 0.0 17.2 20
Other Refused Don't Know **Note: The Control of th	4.84 0.00 5.82 95 38.81 32.69 29.09	2.25 0.00 0.00 41 16.75 32.02 28.50	5.38 0.00 7.02 54 43.82 32.84 29.23	8.56 0.00 0.00 15 2.21 10.61 53.65	0.00 0.00 0.00 6 9.58 39.59 0.00	0.00 0.00 0.00 3 0.00 98.76 28.90	0.00 0.00 0.00 0 100.00 0.00	0.00 0.00 0.00 16 22.46 20.92 21.93	0.00 0.00 16 27.27 26.46 36.68	0.00 0.00 9 70.70 28.80 5.35	0.00 0.00 5 5.78 32.42 13.17	0.00 0.00 3 57.31 42.44 41.59	12.7 0.0 17.2 2 37.0 21.0
Other Refused Don't Know	4.84 0.00 5.82 95 38.81 32.69	2.25 0.00 0.00 41 16.75 32.02	5.38 0.00 7.02 54 43.82 32.84 29.23	8.56 0.00 0.00 15 2.21 10.61	0.00 0.00 0.00 6 9.58 39.59 0.00	0.00 0.00 0.00 3 0.00 98.76	0.00 0.00 0.00 0 100.00	0.00 0.00 0.00 16 22.46 20.92	0.00 0.00 16 27.27 26.46	0.00 0.00 9 70.70 28.80	0.00 0.00 5 5.78 32.42	0.00 0.00 3 57.31 42.44	12.7 0.0 17.2 2 37.0 21.0 16.0 19.1
Other Refused Don't Know n cLT6> What factors led you to participate in these program(s)? Rebale Incentive Energy savings Cost savings Quality of equipment Payback Ease of program participation	4.84 0.00 5.82 95 38.81 32.69 29.09 9.93 0.00	2.25 0.00 0.00 41 16.75 32.02 28.50 20.80 0.00	5.38 0.00 7.02 54 43.82 32.84 29.23 7.46 0.00 0.00	8.56 0.00 0.00 15 2.21 10.61 53.65 36.12 0.00	0.00 0.00 0.00 6 9.58 39.59 0.00 38.17 0.00	0.00 0.00 0.00 3 0.00 98.76 28.90 0.00 0.00	0.00 0.00 0.00 0 0 100.00 0.00 0.00 0.0	0.00 0.00 0.00 16 22.46 20.92 21.93 20.42 0.00	0.00 0.00 16 27.27 26.46 36.68 5.27 0.00	0.00 0.00 9 70.70 28.80 5.35 28.08 0.00 0.00	0.00 0.00 5 5.78 32.42 13.17 0.00 0.00	0.00 0.00 3 57.31 42.44 41.59 0.00 0.00	12.7 0.0 17.2 2 37.0 21.0 16.0 19.1 0.0
Other Refused Don't Know n KLT6> What factors led you to participate in these program(s)? Rebate/incentive Energy savings Cost savings Quality of equipment	4.84 0.00 5.82 95 38.81 32.69 29.09 9.93 0.00	2.25 0.00 0.00 41 16.75 32.02 28.50 20.80 0.00	5.38 0.00 7.02 54 43.82 32.84 29.23 7.46 0.00	8.56 0.00 0.00 15 2.21 10.61 53.65 36.12 0.00	0.00 0.00 0.00 6 9.58 39.59 0.00 38.17	0.00 0.00 0.00 3 0.00 98.76 28.90 0.00	0.00 0.00 0.00 0 0 100.00 0.00 0.00 0.0	0.00 0.00 0.00 16 22.46 20.92 21.93 20.42 0.00	0.00 0.00 16 27.27 26.46 36.68 5.27 0.00	0.00 0.00 9 70.70 28.80 5.35 28.08 0.00	0.00 0.00 5 5.78 32.42 13.17 0.00 0.00	0.00 0.00 3 57.31 42.44 41.59 0.00 0.00	12.7 0.0 17.2 2 37.0 21.0 16.0 19.1 0.0 0.0
Other Refused Don't Know A CLT6> What factors led you to participate in these program(s)? Rebate/incentive Energy savings Cost savings Cuality of equipment Payback Ease of program participation Recommendation from utility rep or contractor Other Refused	4.84 0.00 5.82 95 38.81 32.69 29.09 9.93 0.00 0.00 2.38 10.38	2.25 0.00 0.00 41 16.75 32.02 28.50 0.00 0.00 1.28 2.34 0.00	5.38 0.00 7.02 54 43.82 32.84 29.23 7.46 0.00 0.00 2.63 12.21	8.56 0.00 0.00 15 2.21 10.61 53.65 36.12 0.00 0.00 0.00	0.00 0.00 0.00 6 9.58 39.59 0.00 38.17 0.00 0.00 1.14 11.52	0.00 0.00 0.00 3 3 0.00 98.76 28.90 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 16 22.46 20.92 21.93 20.42 0.00 2.65 2.90 0.00	0.00 0.00 16 27.27 26.46 36.68 5.27 0.00 0.00 5.76 9.74	0.00 0.00 9 70.70 28.80 5.35 28.08 0.00 0.00 17.69 0.00	0.00 0.00 5 5 5.78 32.42 13.17 0.00 0.00 0.00 0.00 58.94 0.00	0.00 0.00 3 57.31 42.44 41.59 0.00 0.00 0.00 0.00 0.00 0.00 0.00	12.7 0.0 17.2 2 37.0 21.0 16.0 19.1 0.0 0.0 4.1 18.8
Other Refused Don't Know **CLT6> What factors led you to participate in these program(s)? Rebate/incentive Energy savings Cost savings Quality of equipment Payback Ease of program perticipation Recommendation from utility rep or contractor Other Refused Don't Know n	4.84 0.00 5.82 95 38.81 32.69 9.93 0.00 0.00 0.2.38 10.38 0.00 8.07	2.25 0.00 0.00 41 16.75 32.02 28.50 0.00 0.00 1.28 2.34 0.00 21.86	5.38 0.00 7.02 54 43.82 32.84 29.23 7.46 0.00 0.00 2.63 12.21 0.00 4.94 64	8.56 0.00 0.00 15 2.21 10.61 53.65 36.12 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 6 9.58 39.59 0.00 38.17 0.00 0.00 1.14 11.52	0.00 0.00 0.00 3 0.00 98.76 28.90 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 16 22.46 20.92 21.93 20.42 0.00 0.00 2.65 2.90	0.00 0.00 16 27.27 26.46 36.68 5.27 0.00 0.00 5.76	0.00 0.00 9 70.70 28.80 5.35 28.08 0.00 0.00 17.69 0.00	0.00 0.00 5 5.78 32.42 13.17 0.00 0.00 0.00 0.00 58.94	0.00 0.00 3 57.31 42.44 41.59 0.00 0.00 0.00 0.00	12.7 0.0 17.2 2 37.0 21.0 16.0 19.1 0.0 0.0 4.1 18.8 0.0
Other Refused Don't Know n CLT6> What factors led you to participate in these program(s)? Rebate/incentive Energy savings Cost savings Quality of equipment Payback Ease of program participation Recommendation from utility rep or contractor Other Refused Don't Know n CLT7> And exactly how did that experience help to convince you to ins	4.84 0.00 5.82 95 38.81 32.69 9.93 0.00 0.00 2.38 10.38 0.00 8.07 116	2.25 0.00 0.00 41 16.75 32.02 28.50 20.80 0.00 1.28 2.34 0.00 21.86 52 lighting e	5.38 0.00 7.02 54 43.82 32.84 29.23 7.46 0.00 0.00 2.63 12.21 0.00 4.94 64 quipment	8.56 0.00 0.00 15 2.21 10.61 53.65 36.12 0.00 0.00 0.00 0.64 0.00 30.66 20	0.00 0.00 0.00 6 9.58 39.59 0.00 38.17 0.00 0.00 1.14 11.52 0.00 6	0.00 0.00 0.00 3 0.00 98.76 28.90 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 16 22.46 20.92 21.93 20.42 0.00 0.00 2.65 2.90 0.00 30.64 19	0.00 0.00 16 27.27 26.46 36.68 5.27 0.00 0.00 5.76 9.74 0.00 8.69	0.00 0.00 9 70.70 28.80 5.35 28.08 0.00 0.00 17.69 0.00 0.00 0.00	0.00 0.00 5 5.78 32.42 13.17 0.00 0.00 0.00 0.00 58.94 0.00 2.86 6	0.00 0.00 3 57.31 42.44 41.59 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	12.7 0.0 17.2 21.0 21.0 16.0 19.1 0.0 4.1 18.8 0.0 12.2
Other Refused Don't Know n Recharding the service of the service o	4.84 0.00 5.82 95 38.81 32.69 29.09 9.93 0.00 0.00 2.38 10.38 0.00 8.07 176 stall this 28.80 0.00	2.25 0.00 0.00 41 16.75 32.02 28.50 0.00 0.00 1.28 2.34 0.00 21.86 52 lighting e 19.33 0.00	5.38 0.00 7.02 54 43.82 32.84 29.23 7.46 0.00 0.00 2.63 12.21 0.00 4.94 64 quipment 31.35 0.00	8.56 0.00 0.00 15 2.21 10.61 53.65 36.12 0.00 0.00 0.00 0.00 30.66 20 27 27.38	0.00 0.00 0.00 6 9.58 39.59 0.00 0.00 1.14 11.52 0.00 0.00 6	0.00 0.00 0.00 98.76 28.90 0.00 0.00 0.00 0.00 1.24 5	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 16 22.46 20.92 21.93 20.42 0.00 0.00 2.65 2.90 0.00 30.64 19	0.00 0.00 16 27.27 26.46 36.68 5.27 0.00 0.00 5.76 9.74 0.00 8.69 20	0.00 0.00 9 70.70 28.80 5.35 28.08 0.00 0.00 17.69 0.00 0.00 9	0.00 0.00 5 5.78 32.42 13.17 0.00 0.00 0.00 0.00 0.00 58.94 0.00 2.86 6	0.00 0.00 3 57.31 42.44 41.59 0.00 0.00 0.00 0.00 0.00 0.25 5	12.7 0.0 17.2 20 37.0 21.0 16.0 19.1 0.0 0.0 4.1 18.8 0.0 12.2 2
Other Refused Don't Know Restance of the service of	4.84 0.00 5.82 95 38.81 32.69 29.09 9.93 0.00 2.38 10.38 0.00 8.07 716 stall this	2.25 0.00 0.00 41 16.75 32.02 28.50 20.80 0.00 0.00 0.188 2.34 0.00 21.86 52 lighting e	5.38 0.00 7.02 54 43.82 32.84 29.23 7.46 0.00 2.63 12.21 0.00 4.94 64 quipment 31.35 0.47 4.76	8.56 0.00 0.00 15 2.21 10.61 53.65 36.12 0.00 0.00 0.64 0.00 30.66 20 7	0.00 0.00 0.00 0.00 0.00 9.58 9.58 9.59 0.00 38.17 0.00 1.14 11.52 0.00 0.00 12.66 0.00 0.00	0.00 0.00 0.00 3 0.00 98.76 28.90 0.00 0.00 0.00 0.00 0.00 1.24 5	0.00 0.00 0.00 0 0 100.00 0.00 0.00 0.0	0.00 0.00 0.00 16 22.46 20.92 21.93 20.42 0.00 0.00 2.65 2.90 0.00 30.64 19	0.00 0.00 16 27.27 26.46 36.68 5.27 0.00 0.00 5.76 9.74 0.00 8.69 20	0.00 0.00 9 70.70 28.80 5.35 28.08 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 5 5.78 32.42 13.17 0.00 0.00 0.00 0.00 58.94 0.00 2.86 6	0.00 0.00 3 57.31 42.44 41.59 0.00 0.00 0.00 0.00 0.00 0.00 0.25 5	12.7 0.0 17.2 2 37.0 21.0 16.0 0.0 4.1 18.8 0.0 12.2 2 22.4 0.0
Other Refused Don't Know n cLT6> What factors led you to participate in these program(s)? RebateIncentive Energy savings Cost savings Quality of equipment Payback Ease of program participation Recommendation from utility rep or contractor Other Refused Don't Know Don't Know ALT7> And exactly how did that experience help to convince you to im Positive experience Ease of participation Refused Refu	4.84 0.00 5.82 95 38.81 32.69 29.09 9.93 0.00 0.00 2.38 0.00 8.07 116 stall this 28.80 0.00 6.56 35.29 0.00	2.25 0.00 0.00 41 16.75 32.02 28.50 0.00 1.28 2.34 0.00 21.86 52 lighting e 19.33 0.00 13.28 24.16 0.00	5.38 0.00 7.02 54 43.82 32.84 29.23 7.46 0.00 0.00 2.63 12.21 0.00 4.94 64 quipment 31.35 0.00 4.76 38.27 38.27	8.56 0.00 0.00 155 2.21 10.61 53.65 36.12 0.00 0.00 0.64 0.00 30.66 20 27.38 0.00 0.53 33.555	0.00 0.00 6 9.58 39.59 0.00 38.17 0.00 1.14 11.52 0.00 0.00 6	0.00 0.00 0.00 98.76 28.90 0.00 0.00 0.00 1.24 5	0.00 0.00	0.00 0.00 0.00 16 22.46 20.92 21.93 20.42 0.00 2.65 2.90 0.00 30.64 19 21.21 0.00 22.15 16.85 0.00	0.00 0.00 16 27.27 26.46 36.68 5.27 0.00 5.76 9.74 0.00 8.69 20 35.10 0.00 12.84 26.40	0.00 0.00 9 70.70 28.80 0.00 17.69 0.00 0.00 9 72.93 0.00 0.00 0.00 0.00 11.79	0.00 0.00 5 5 5.78 32.42 13.17 0.00 0.00 0.00 0.00 0.00 0.00 2.86 6 6	0.00 0.00 3 3 57.31 42.44 41.59 0.00 0.00 0.00 0.00 0.00 0.25 5	12.7. 0.0 17.2.2. 2 21.0 16.0 19.1 16.0 0.0 12.2 2.2. 4 2.2. 4 2.3. 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Other Refused Don't Know n Reclaid the septiment of the s	4.84 0.00 5.82 95 38.81 32.69 29.09 9.93 0.00 0.00 2.38 10.38 0.00 8.07 116 stall this 28.80 0.00 6.566 35.29	2.25 0.00 0.00 47 16.75 32.02 28.50 0.00 0.00 1.28 21.86 52 iighting e 19.33 0.00 31.328 24.16	5.38 0.00 7.02 54 43.82 32.84 29.23 7.46 0.00 0.00 4.94 64 quipment 31.35 0.00 4.76 38.27	8.56 0.00 0.00 15 2.21 10.61 53.65 36.12 0.00 0.00 0.64 0.00 30.66 20 27.38 0.00 0.53 33.55	0.00 0.00 6 9.58 39.59 0.00 38.17 0.00 1.14 11.52 0.00 0.00 6	0.00 0.00 0.00 0.00 0.00 0.00 98.76 28.90 0.00 0.00 0.00 0.00 0.00 0.00 1.24 5 0.00 0.10 11.97 42.32 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 16 22.46 20.92 21.93 20.42 0.00 0.00 2.65 2.90 30.64 19 21.21 0.00 22.15 16.85	0.00 0.00 16 27.27 26.46 36.68 5.27 0.00 5.76 9.74 0.00 8.69 20 35.10 0.00	0.00 0.00 9 70.70 28.80 5.35 28.08 0.00 17.69 0.00 0.00 0.00 9 72.93 0.00 11.79 0.00	0.00 0.00 5 5 32.42 13.17 0.00 0.00 0.00 2.86 6 79.93 0.00 10.49 0.00 10.40 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 3 3 57.31 42.44 41.59 0.00 0.00 0.00 0.00 0.00 0.00 0.25 5	12.7 0.0 17.2 2.0 17.2 2.0 18.0 18.0 18.0 18.0 18.0 18.0 18.0 18
Other Refused Don't Know ACLT6> What factors led you to participate in these program(s)? Rebate/incentive Energy savings Cost savings Quality of equipment Payback Ease of program participation Recommendation from utility rep or contractor Other Refused Don't Know n ALT7> And exactly how did that experience help to convince you to lim Positive experience Ease of participation Reliability of program Financial benefits (upfront costs, savings, payback, ROI) Energy efficiency/environmental impacts No impact	4.84 0.00 5.82 95 38.81 32.69 29.09 9.93 0.00 2.38 10.38 0.00 5.81 8.07 116 8.80 0.00 6.56 35.29 0.00 0.00	2.25 0.00 0.00 47 16.75 32.02 28.50 0.00 0.00 1.28 2.34 0.00 21.86 522 ighting e 19.33 0.00 13.28 24.16	5.38 0.00 7.02 54 43.82 32.84 29.23 7.46 0.00 0.00 2.63 12.21 0.00 4.94 4.76 31.35 0.00 4.76 38.27 0.00 0.00 0.00	8.56 0.00 0.00 155 2.21 10.61 53.65 36.12 0.00 0.00 0.64 0.00 30.66 20 7 27.38 0.00 0.53 33.55 0.00 0.00 0.00	0.00 0.00 0.00 6 9.58 39.59 0.00 38.17 0.00 0.00 1.14 11.52 0.00 0.00 6 12.66 0.00 0.00 8.04 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 16 22.46 20.92 21.93 20.42 0.00 0.00 30.64 19 21.21 0.00 22.15 16.85 0.00	0.00 0.00 16 27.27 26.46 36.68 5.27 0.00 0.00 5.76 9.74 0.00 8.69 20 35.10 0.00 12.84 26.40 0.00	0.00 0.00 9 70.70 28.80 0.00 0.00 17.69 0.00 0.00 9 72.93 0.00 0.00 11.79 0.00 0.00	0.00 0.00 5 5 5 5.78 32.42 13.17 0.00 0.00 0.00 58.94 0.00 2.86 6 79.93 0.00 10.49 6.41 0.00	0.00 0.00 3 3 57.31 42.44 41.59 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	12.7 0.0 17.2

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food (%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small (%)
<lt8> Have these programs had any long-term influence on your or individual projects?</lt8>													
No Don't Know	98.07 1.93	91.73 8.27	98.89	33.14 66.86	0.00	0.00	0.00	100.00 0.00	0.00 100.00	100.00	0.00	0.00	100.00
n <lt9> Has your organization developed a specification policy for the second s</lt9>	he selecti	on of ene	rgy-efficie		ment?	0	0	1	1	1	0	0	7
n	0.00	0.00	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<lt10> Has your organization assigned responsibility for controlling n</lt10>	0.00	0.00 0	0.00	0.00 0	0.00	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<lt11> Does your organization have any internal incentive or reward</lt11>	d policies 0.00		ess units	or staff re	esponsibl		aging ene		0.00	0.00	0.00	0.00	0.00
<ca2> In marketing materials or in communications with customers</ca2>	0	0	ny highlig	0	0	0	0 usiness is	0	0	0	0.00	0.00	0.00
Yes No	47.04 51.77	38.42 59.62		26.38 67.24	37.65	51.90 47.85	90.92	31.89 67.39	30.54 69.46	34.88 60.59	63.61 35.53	77.24 22.34	31.10 67.71
Don't Know	1.20	1.96	0.93	6.39		0.26	0.00	0.72	0.00	4.53	0.86	0.41	1.18
<a3a> According to our Records, your organization inatalled <qty1> Yes-quantity correct</qty1></a3a>	many lig 96.73	hting mea 98.35	sures thr 96.16	rough <> 96.09		this corre 98.95	ct?	99.14	93.70	100.00	82.38	100.00	97.07
Yes-Change Quantity	3.27 561	1.65	3.84 283	3.91 106	1.21	1.05	0.00	0.86	6.30	0.00	17.62	0.00	2.94 102
<a3a_qty> Approximately how many of this lighting measure did yo</a3a_qty>		12.04	0.00	0.00		100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3 6	1.17 8.20	8.89 34.83	0.00 4.15	0.00 60.25	100.00	0.00	0.00	0.00	0.00 20.98	0.00	0.00	0.00	0.00
10 12	1.11 6.52	8.45 2.22	0.00 7.17	14.62		0.00	0.00	0.00 11.31	0.00	0.00	0.00	0.00	0.00 24.50
16 17	1.25 9.27	9.47 8.22	0.00 9.43	16.38		0.00	0.00	0.00 41.82	0.00	0.00	0.00	0.00	0.00 32.20
20 46	13.63 12.83	14.26 0.00	13.54 14.78	8.75 0.00	0.00	0.00	0.00	46.86 0.00	4.34 74.68	0.00	0.00	0.00	43.31 0.00
50 9999	43.82 0.61	0.00	50.48 0.46	0.00		0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
n <a3a_oth> Would you say that the number of units installed throug</a3a_oth>	19 h the pro	11 gram wer	8 э?	5	1	1	0	3	3	0	1	0	3
Don't Know	100.00	100.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<deem_install_date1_nu> Our Records indicate you installed lig 1</deem_install_date1_nu>	hting equ 98.08	piment th 97.64	rought th 98.23	e prograi 91.90	m on <thi:< td=""><td>100.00</td><td>100.00</td><td>99.07</td><td>95.13</td><td>100.00</td><td>100.00</td><td>100.00</td><td>96.94</td></thi:<>	100.00	100.00	99.07	95.13	100.00	100.00	100.00	96.94
2 99	0.01 1.91	0.04 2.32	0.00 1.77	0.18 7.92		0.00	0.00	0.00	0.00 4.87	0.00	0.00	0.00	0.00 3.06
n <deem_install_year1> In what year did you install/delamp the lig</deem_install_year1>	561 hting equ	278 ipment?	283	106	38	34	3	96	93	43	34	10	102
3 n	100.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<pre><deem_install_month1> And what month? 6</deem_install_month1></pre>	100.00	100.00	0.00	100.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <li18a> Of the CFLs you received through the program, what percer</li18a>		ou estima	o ate were p		to storage		use?	0	0	0	0	0	0
n	0.00	0.00	0	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li19a> Were any of the program provided lighting equipment instal 0</li19a>	92.43	98.06	90.46	99.71	95.00	100.00	78.51	99.90	99.75	95.25	100.00	72.03	99.93
1 10	0.01 0.18	0.03	0.00 0.24	0.12	0.00	0.00	0.00	0.00	0.00	0.00 4.42	0.00	0.00	0.00
70 80	0.17 7.15	0.62 1.22	0.02 9.23	0.00	0.00	0.00	0.00 21.49	0.00	0.00	0.33	0.00	0.00 27.97	0.00
90 100	0.02 0.01	0.00 0.04	0.03	0.00 0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
102 n	0.03 561	0.04 278	0.03 283	0.00	0.00	0.00	0.00	0.10 96	0.25 93	0.00 43	0.00 34	0.00	0.00 102
<li20a> What type of lighting was removed and replaced when you in High Performance T8</li20a>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures	0.78	0.00	0.45	0.00	0.00	0.00	0.00	0.51	0.32	5.26 0.00	0.00	0.00	0.35
T12 fluorescent fixtures Compact HID (High Intensity Discharge) F	3.77 0.03	3.48 0.03	3.88 0.03	11.16 0.00	0.22	0.44	0.00	0.00	0.00	0.00	0.00	0.00	9.41 0.00
Screw-in Modular CFLs Hardwired CFL Fixtures	0.00	6.97 0.00			0.00	0.00		7.64 0.00	22.76 0.00	0.00	0.00	0.41	0.00
Incandescent bulbs CFL Exit Signs	39.55 0.00	48.18 0.00	36.52 0.00	36.08 0.00	0.00	42.00 0.00	9.08	58.85 0.00	33.25 0.00	53.71 0.00	51.90 0.00	0.00	43.03
LED Exit Signs Halogen bulbs	0.09 28.85	0.35 16.21	0.00 33.27	0.00 3.48	3.81	0.00 20.08	0.00 21.49	0.00 25.77	0.00 19.46	0.00 17.39	19.03	0.00 40.85	0.00 37.44
Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast Manual Switches	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	5.59 1.57	9.00 3.70 0.41	4.40 0.83 0.85	12.03 6.42 0.31		0.00 2.55 0.00	0.00 0.00	11.72 2.39 0.73	5.97 1.46 0.26	8.02 2.32 0.66	0.00 2.88 5.75	0.77 0.00 0.00	7.77 0.53 0.33
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.73	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
Nid not Remove Anything Record	9.78 6.42	5.87 4.56	7.07	0.18 7.74	4.10	7.26	69.43 0.00	4.98 1.96	0.24 11.42	13.78	0.00 4.51	32.44	1.08 8.73
	0.00	0.00 278	0.00 283	0.00 106		0.00 34	0.00	0.00 96	0.00 93	0.00 43	0.00 34	0.00	0.00 102
Screw-in LEDs	561												
	90.22	94.14	88.85	99.82		100.00		95.02	99.76	100.00	100.00	67.56	98.92
<d_replace_addon> To determine if replacement or add on</d_replace_addon>	90.22 9.78 561	94.14 5.87 278	88.85 11.15 283	99.82 0.18 106	0.00	100.00 0.00 34	30.57 69.43 3	95.02 4.98 96	99.76 0.24 93	100.00 0.00 43	100.00 0.00 34	67.56 32.44 10	98.92 1.08 102

				_	ı,		-			. 44			
		.ED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Offlice - Small(%)	ED Lamp(s) testaurant - Fas ood(%)	mp(s) rant - Sit %)	.ED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	.ED Reflector(s) Restaurant - Fas Food(%)	ED Reflector(s) testaurant - Sit town(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
	ALL.	ED La	_ED Reflect	-ED Lamp(s) Office - Smal	LED Lamp(s) Restaurant - Food(%)	LED Lamp(s) Restaurant - Down (%)	LED Lamp(s) Retail - Large	ED La	ED Re	-ED Ref Restaura Food(%)	LED Reflecto Restaurant - Down(%)	ED Re	ED Re Retail -
<li22a> Approximately how old was the equipment that were removed. Less than 5 years old.</li22a>	ed and re 57.34	placed? 48.82	60.51	19.26		71.90	70.31	55.89	48.47	64.84	65.82	65.97	59.00
Between 5 and 10 years old Between 10 and 15 years old or	20.05 5.77	29.94 6.24	16.38 5.59	55.06 7.55	16.08 13.32	18.42 1.34	0.00 29.69	25.08 4.34	31.80 6.14	27.08 2.46	22.53 10.39	0.00 7.74	17.78 3.16
More than 15 years old Don't Know	14.38 2.46	10.18 4.82	15.94 1.59	9.46 8.66	19.77 2.36	1.15 7.19	0.00	12.68 2.01	11.71 1.88	5.26 0.36	0.06 1.20	26.29 0.00	17.35 2.71
n <li23a> How would you describe the condition of the lighting equipment of the lighting equipment.</li23a>			279 ved and r	104 eplaced?		34	2	94	92	43	34	9	100
Poor condition Fair condition or	5.38 43.01	7.05 39.00	4.75 44.49	12.69 50.33	2.63 34.43	1.04 44.34	0.00 100.00	8.24 27.10	2.36 35.62	6.84 57.55	3.68 42.82	0.61 74.47	7.96 28.41
Good condition Don't Know	49.93 1.69	52.96 0.99	48.81 1.95	36.74 0.25	62.94 0.00	54.36 0.26	0.00	62.39 2.27	56.38 5.63	35.61 0.00	52.64 0.86	0.00	61.12 2.51
CLI24A> Approximately what percentage of the lighting equipment to the lighting equipment e		273 moved ar				34 Not workii		94 installing		43	34	9	100
0	69.82 2.61	79.84	66.10 2.73	69.91 1.98	92.49 0.48	95.14 0.00	0.00	78.05 4.37	73.47 6.09	79.31 3.79	90.64 0.00	19.86 4.90	1.04
3	0.57	0.27 1.95	0.68	0.00	0.00	0.00	0.00	0.00 4.83	5.01 0.00	0.00	0.00	0.00	1.10
5	0.29 6.00	0.03 2.23	0.39 7.40	0.00 4.66	0.00	0.00 2.70	0.00	1.18	1.11	0.00 1.14	1.18	0.00 26.10	0.86 1.15
8 9	0.36	0.25	0.40	0.00		0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.94
10 15	3.37 3.32	1.35 3.31	4.12 3.32	2.50 6.79		1.04 0.00	0.00	1.01 3.98	3.57 9.00	0.80 8.65	3.39 0.00	7.14 0.00	3.20 3.68
20 25	9.38 0.54	2.57 1.51	11.91 0.18	1.53 2.10	4.10 0.00	0.00	70.31 0.00	0.87 2.49	0.25 0.00	4.83 0.00	0.00	41.40 0.00	2.80 0.42
30	0.99 0.04	0.69 0.13	1.10 0.01	2.36 0.14	0.53 0.71	0.00	0.00	0.00	0.55 0.05	0.00	0.00	0.00	2.40 0.00
45 50	0.31 0.47	1.14 1.06	0.00 0.25	4.33 1.75	0.00	0.00	0.00 29.69	0.00 0.14	0.00 0.17	0.00 0.65	0.00	0.00	0.00
60	0.36 0.10	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00 0.47	0.00	3.94 0.00	0.00	0.00
100 102	0.03	0.00	0.04	0.00	0.00	0.00	0.00	0.00 2.43	0.26 0.00	0.00	0.00	0.00	0.00
A3B> According to our Records, your organization inatalled <qty1:< p=""></qty1:<>	552 many lig	273 hting mea	279 asures thr	104 ough ⇔	38 period is 1	34 this correc	ct?	94	92	43	34	9	100
Yes-quantity correct Yes-Change Quantity	92.17 1.27	93.67 1.39	91.55 1.22	92.83 4.12	91.02 0.00	96.64 0.00	100.00	92.51 1.03	95.09 1.77	97.45 0.41	77.07 0.00	98.59 0.00	88.01 2.76
Did Not Install Don't Know	2.07 4.49	2.82 2.13	1.76 5.47	1.42 1.64	0.00 8.98	3.36 0.00	0.00	4.84 1.63	0.48 2.66	1.76 0.37	2.74 20.18	1.41 0.00	2.17 7.06
n <a3b_qty> Approximately how many of this lighting measure did y</a3b_qty>	466 ou install?	242	224	92	35	30	3	81	71	39	30	7	76
2 4	4.90 27.06	15.27 47.26	0.00 17.52	21.24 65.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 15	56.24 3.00	28.11 9.35	69.53	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	86.52 0.00
18 18 20	1.45 7.36	0.00	2.13	0.00		0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
n <a3b_oth> Would you say that the number of units installed through</a3b_oth>	8	4	4	3	0	0	0	1	1	1	0	0	2
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CDEEM_INSTALL_DATE2_NU> Our Records indicate you installed it	0	0.00	0.00	0	0	0	0	0			0		
<deem_install_date2_nu> Our Records indicate you installed if 1 2</deem_install_date2_nu>	97.87 0.67	0.00 0 upiment ti 99.09 0.68	0.00 0 hrought th 97.35 0.66	0 ne progra 98.49 1.04	0 m on <thi 96.49 3.51</thi 	0 s date> is 100.00 0.00	0 that corre 100.00 0.00	99.67 0.00	97.75 0.00	92.46 7.54	100.00	100.00	94.66 0.46
<deem_install_date2_nu> Our Records indicate you installed it 1 2 99 n</deem_install_date2_nu>	97.87 97.87 0.67 1.46 428	0.00 0 upiment tl 99.09 0.68 0.24 221	0.00 0 hrought th 97.35	0 ne progra 98.49	0 m on <thi 96.49</thi 	o s date> is 100.00	that corre	0 ect? 99.67	97.75	92.46	100.00	100.00	94.66
CDEEM_INSTALL_DATE2_NU> Our Records indicate you installed in the control of the	97.87 97.87 0.67 1.46 428 hting equ	0.00 0 upiment tl 99.09 0.68 0.24 221 ipment? 38.05	0.00 0 hrought th 97.35 0.66 1.98 207	0 ne progra 98.49 1.04 0.47 87	0 m on <thi 96.49 3.51 0.00 32</thi 	0 s date> is 100.00 0.00 0.00 28	0 that correction 0.00 0.00 3	99.67 0.00 0.33 70	97.75 0.00 2.26 66	92.46 7.54 0.00 37	0 100.00 0.00 0.00 28	0 100.00 0.00 0.00 5	94.66 0.46 4.87 70
<deem_install_date2_nu> Our Records indicate you installed if 1 2 99 9 <deem_install_year2> In what year did you install/delamp the light 3 99 0</deem_install_year2></deem_install_date2_nu>	97.87 0.67 1.46 428	0.00 0 upiment tl 99.09 0.68 0.24 221 ipment?	0.00 0 hrought th 97.35 0.66 1.98 207	0 ne progra 98.49 1.04 0.47 87	0 m on <thi 96.49 3.51 0.00 32</thi 	0 s date> is 100.00 0.00 0.00 28	0 that corrections 100.00 0.00 0.00 3	99.67 0.00 0.33 70	97.75 0.00 2.26 66	92.46 7.54 0.00 37	0 100.00 0.00 0.00 28	0 100.00 0.00 0.00 5	94.66 0.46 4.87 70
CDEEM_INSTALL_DATE2_NU> Our Records indicate you installed it 2 99 CDEEM_INSTALL_YEAR2> In what year did you installidelamp the light of the ligh	97.87 97.87 0.67 1.46 428 hting equ 11.54 88.46 5	0.00 0 upiment tl 99.09 0.68 0.24 221 ipment? 38.05 61.95 3	0.00 0 hrought th 97.35 0.66 1.98 207 0.00 100.00 2	0 ne progra 98.49 1.04 0.47 87 100.00 0.00 2	0 m on <thi 0.00="" 0.00<="" 1="" 100.00="" 3.51="" 32="" 96.49="" td=""><td>0 s date> is 100.00 0.00 0.00 28 0.00 0.00 0.00</td><td>0 s that correspond to 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0</td><td>99.67 0.00 0.33 70 0.00 0.00 0.00</td><td>97.75 0.00 2.26 66 0.00 0.00 0.00</td><td>92.46 7.54 0.00 37 0.00 100.00 1</td><td>0 100.00 0.00 0.00 28 0.00 0.00 0</td><td>0 100.00 0.00 0.00 5 0.00 0.00 0.00</td><td>94.66 0.46 4.87 70 0.00 100.00 1</td></thi>	0 s date> is 100.00 0.00 0.00 28 0.00 0.00 0.00	0 s that correspond to 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	99.67 0.00 0.33 70 0.00 0.00 0.00	97.75 0.00 2.26 66 0.00 0.00 0.00	92.46 7.54 0.00 37 0.00 100.00 1	0 100.00 0.00 0.00 28 0.00 0.00 0	0 100.00 0.00 0.00 5 0.00 0.00 0.00	94.66 0.46 4.87 70 0.00 100.00 1
<deem_install_date2_nu> Our Records indicate you installed it 1 2 99 n <edeem_install_year2> In what year did you installidelamp the lighter of the</edeem_install_year2></deem_install_date2_nu>	0 ghting equ 97.87 0.67 1.46 428 htting equ 11.54 88.46 5	0.00 0 upiment tl 99.09 0.68 0.24 221 ipment? 38.05 61.95 3 20.34 79.66	0.00 0 0 97.35 0.66 1.98 207 0.00 100.00 2	0 ne progra 98.49 98.49 1.04 0.47 87 100.00 2 2 20.34 79.66 2	0 m on 6 m on 7 m on 8 m on 8 m on 96.49 m on 96.40 m on	0 s date> is 100.00	0 that corrections of the correc	0 99.67 0.00 0.33 70 0.00 0.00	97.75 0.00 2.26 66 0.00 0.00	92.46 7.54 0.00 37 0.00 100.00	0 100.00 0.00 0.00 28 0.00 0.00 0.00	0 100.00 0.00 0.00 5 0.00 0.00	0 94.66 0.46 4.87 70 0.00 100.00
CDEEM_INSTALL_DATE2_NU> Our Records indicate you installed it 1 2 99 n CDEEM_INSTALL_YEAR2> In what year did you install/delamp the lit 3 99 4 CDEEM_INSTALL_MONTH2> And what month? 6 99 4 CLI18B> Of the CFLs you received through the program, what percent 0	0 ghting equ 97.87 0.67 1.466 428 hting equ 11.54 88.46 79.66 2 2 ttage do y	0.00 0 0 upiment ti 99.09 9.08 0.24 221 ipment? 38.05 61.955 3 20.34 79.66 2 cou estima	0.00 0 hrought the 97.35 97.35 97.35 0.66 1.98 207 0.00 100.00 2 0.00 0.00 0.00 47.85	98.49 1.04 0.47 87 100.00 0.00 2 20.34 79.66 2 blaced int	0 m on	0 s date> is 100.00	0 that corrections on the correction of the corr	0 ect? 99.67 0.00 0.33 70 0.00 0.00 0.00 0.00 0.00	97.75 0.00 2.26 66 0.00 0.00 0.00 0.00 0.00	92.46 7.54 0.00 37 0.00 100.00 7	0 100.00 0.00 0.00 28 0.00 0 0 0.00 0.00 0.	0 100.00 0.00 0.00 5 0.00 0.00 0.00 0.00	0 94.66 0.46 4.87 70 0.00 100.00 1 0.00 0.00 0.00
CDEEM_INSTALL_DATE2_NU> Our Records indicate you installed it 1 2 99 n CDEEM_INSTALL_YEAR2> In what year did you install/delamp the life 3 3 6 CDEEM_INSTALL_MONTH2> And what month? 6 99 n <clh8b> Of the CFLs you received through the program, what perce 0 102 n 102</clh8b>	0 ghting equ 97.87 0.677 1.466 4288 htting equ 11.54 88.466 5 5 2 2 344 79.666 2 2 1tage do y 57.69 42.31 13	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0 nrought ti 97.35 0.66 1.98 207 0.00 100.00 0.00 0.00 0.00 47.85 52.15	0 ne progra 98.49 98.49 1.04 0.47 87 100.00 0.00 2 20.34 79.66 2 2 0.00 0.00 0.00 0.00 0.00 0.00 0.	0 m on 4thin 96.49 96.49 3.51 0.00 100.00 100.00 0.00 0.00 0.00 0.	0 s date> is 100.00	0 that correction 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0 oct? 99.67 0.00 0.33 70 0.00 0.00 0.00 0.00 0	97.75 0.00 2.26 66 0.00 0.00 0 0.00 0.00	92.46 7.54 0.00 37 0.00 100.00 7	0 100.00 0.00 28 0.00 0.00 0.00 0.00 0.00 0	0 100.00 0.00 0.00 5 0.00 0.00 0 0.00 0.0	0 94.66 0.46 4.87 70 0.00 100.00 1 0.00 0.00
CDEEM_INSTALL_DATE2_NU> Our Records indicate you installed it 1 2 9 9 7 CDEEM_INSTALL_YEAR2> In what year did you install/delamp the light 3 3 99 7 CDEEM_INSTALL_MONTH2> And what month? 6 99 7 CLH8B> Of the CFLs you received through the program, what perce 0 102 7 CLH9B> Were any of the program provided lighting equipment install	0 ghting equ 97.87 0.677 1.466 428 428 46 5 5 20.344 79.666 2 142.31 13 16d at anno 89.22	0.00 0 0 99.09 0.68 0.24 227 ipment? 38.05 61.95 3 20.34 79.66 2 0u estimation of the state of t	0.00 0 nrought # 97.35 0.66 1.98 207 0.00 0.00 0.00 0.00 0.00 0.00 47.85 52.15 5 tty? If so.	0 ne program 98.49 1.04 0.47 87 100.00 0.00 2 20.34 79.66 2 blaced intl 100.00 0.00 2 what pee	0 m on sthi 96.49 3.51 0.00 100.00 100.00 7 0.00 0.00 0.00 0.	0 s date> is 100.00	0 that correction 100.00	99.67 99.67 0.00 0.33 70 0.00	0 97.75 0.00 2.26 66 0.00 0.00 0.00 0.00 0.00 0	92.46 7.54 0.00 37 0.00 100.00 0.00 0.00 0.00 100.00 7	0 100.00 0.00 0.00 0.00 0.00 0.00 0.00	0 100.00 0.00 0.00 0.00 0.00 0.00 0.00	94.66 0.46 4.87 70 0.00 100.00 0.00 0.00 0.00 43.33 56.67 3
CDEEM_INSTALL_DATE2_NU> Our Records indicate you installed it is considered. If it is considered in the constant is considered in the constant in the const	0 ghting equ 97.87 0.67 1.46 428 hting equ 11.54 88.46 20.34 79.66 2 2 ttage do y 57.69 42.31 133 led at anc 89.22 0.022 9.76	0.00 0 0 9.09 0.68 0.24 221 ipment? 38.05 61.95 3 20.34 79.66 2 rou estima 100.00 8 ther facili 96.77 1.44	0.00 0 0 1.98 97.35 0.66 1.98 207 0.00 100.00 0.00 0.00 0.00 0.00 47.85 52.15 5 5 ty? If so, 86.00 0.00 13.31	0 ne progra 98.49 1.04 0.47 87 100.00 0.00 20.34 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 m on thi 96.49 3.51 0.00 100.00 100.00 0.00 0.00 0.00 0.	0 s date> is 100.00	0 that corre 100.00	0 et? 99.67 0.00 0.33 70 0.00 0.00 0.00 0.00 0.00	0 97.75 0.00 2.26 66 0.00 0.00 0.00 0.00 0.00 0	92.46 7.54 0.00 37 0.00 100.00 0.00 0.00 100.00 100.00 100.00 100.00 0.00	0 100.00 0.00 0.00 28 0.00 0.00 0.00 0.00 0	0 100.00 0.00 0.00 0.00 0.00 0.00 0.00	0 94.66 0.46 4.87 70 0.00 100.00 7 0.00 0.00 43.33 56.67 3 98.02 0.00 0.00
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	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small (%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<li21b> Were the HID lamps you removed High Pressure Sodium, M.</li21b>	0.00 0	0.00 0	0.00	0.00 0.00	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li22b> Approximately how old was the equipment that were removed. Less than 5 years old</li22b>	ed and re 48.02	placed? 54.37	45.45	47.22	84.86	57.39	30.57	52.71	49.97	79.85	54.89	38.50	42.91
Between 5 and 10 years old Between 10 and 15 years old or	22.44 6.43	18.10 8.94	24.19	29.36 9.62	9.09	16.96 15.19	0.00	17.90 9.71	27.03 12.05	11.32 0.00	20.41 12.48	17.48	34.56 7.84
More than 15 years old Don't Know	6.39	8.38	5.58	11.17	0.00	9.83	0.00	10.30	10.95	8.02 0.81	3.77 8.44	0.00	10.3
n	359	185	174	69	28	22	3	62	58	29	23	4	59
<li23b> How would you describe the condition of the lighting equipm Poor condition</li23b>	5.77	6.43 42.41	5.51 24.85	11.69	3.62	9.25	0.00	3.70	22.28	9.66 42.81	4.15	0.00	5.04
Fair condition or Good condition	50.31	44.80	52.53	54.19 33.24	30.20 62.80	43.29 47.47	0.00 30.57	47.12 48.28	34.46 43.00	47.54	44.65 51.20	0.00 55.98	41.19 53.58
Don't Know	14.02 359	6.36 185	174	0.87 69	3.37 28	0.00	69.43 3	0.91 62	0.26 58	0.00 29	0.00	44.02 4	0.19 59
<li24b> Approximately what percentage of the lighting equipment the opening of the lighting equipment the control of the lighting equipment /li24b>	at was re 59.69	75.52		84.00	roken or 1 84.72	78.98	ng prior to 9.08	79.25	66.16	59.15	85.13	18.03	78.9
1 2	1.32 0.19	2.58 0.08		0.00	0.00	0.00	0.00	6.97 0.00	0.00	5.79 2.44	0.00	0.00	1.5
3 5	0.04	0.02	0.05	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
8	0.01	0.03	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
9	0.10 4.22	0.17 1.62		0.00 0.63	1.42 3.99	0.00	0.00	0.00 2.24	0.00 8.84	1.26 0.55	0.00 2.78	0.00	11.8
15 20	3.84 13.16	4.94 4.91		8.22 3.34	4.05 0.00	0.00 8.62	0.00 21.49	6.60 2.19	13.01	17.90 7.25	0.00 10.15	0.00 37.95	1.0
25 30	0.25 0.12	0.32 0.17	0.22	0.16	2.30 0.75	0.00	0.00	0.00	0.00	3.91 0.00	0.00	0.00	0.0
50 70	0.40	1.31	0.03	0.23	0.00	6.50	0.00	0.00	0.00	0.00	0.00	0.00	0.0
90	14.41	5.68	17.94	0.00	0.00	0.00	69.43	0.73	0.00	1.74	0.00	44.02	2.5
100 102	1.39 0.14	0.56 0.49	0.00	1.63 0.00	0.00	0.00	0.00	0.43 1.32	9.05 0.00	0.00	0.00	0.00	0.0
n <a>A3C> According to our Records, your organization inatalled <qty1></qty1>	359 many lig	185 hting mea		69 rough ⇔	28 period is 1	22 this corre	3 ct?	62	58	29	23	4	59
Yes-quantity correct Yes-Change Quantity	92.11 1.46	95.89 2.18	90.10	91.24 7.61	89.97 0.00	100.00	100.00	98.19 0.53	83.89 1.81	76.90 0.00	100.00	100.00	85.35 1.96
Did Not Install Don't Know	2.11	1.54	2.41	0.84	10.03	0.00	0.00	0.48	4.76 9.54	11.35 11.75	0.00	0.00	10.2
n	325	171	154	62	28	23	1	56	49	27	21	1	55
<a3c_qty> Approximately how many of this lighting measure did you 16</a3c_qty>	42.33	9.30		0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00
	51.61 6.06	84.33 6.37		92.98 7.02	0.00	0.00	0.00	0.00	73.73 26.27	0.00	0.00	0.00	0.00
n <a3c_oth> Would you say that the number</a3c_oth>	6	3	3	2	0	0	0	1	2	0	0	0	1
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<deem_install_date3_nu> Our Records indicate you installed light</deem_install_date3_nu>	ghting equ	upiment t	hrought ti 98.47	ne progra 99.24	m on <thi< td=""><td>s date> is 95.66</td><td>that corn</td><td>ect? 100.00</td><td>98.29</td><td>100.00</td><td>91.49</td><td>100.00</td><td>100.00</td></thi<>	s date> is 95.66	that corn	ect? 100.00	98.29	100.00	91.49	100.00	100.00
2	1.14	0.83	1.32	0.00	0.00	4.34	0.00	0.00	0.00	0.00	8.51	0.00	0.00
99 n	0.21 296	0.20 159	0.21 137	0.76 59	0.00 25	0.00 23	0.00	0.00 50	1.71 43	0.00 23	0.00 21	0.00	0.00 48
<deem_install_year3> In what year did you install/delamp the lig 99</deem_install_year3>	hting equ 100.00	100.00	100.00	0.00		100.00	0.00	0.00	0.00				0.00
n <deem_install_month3> And what month? {If they can Not recal</deem_install_month3>	2	- 1		0.00	0.00	100.00			0.00	0.00	100.00	0.00	
	l month, t	ry to get	1	0	0.00	1	0	0	0.00	0.00	100.00	0.00	0.00
n	0.00 0	0.00	the seaso	0		0.00					100.00 1 0.00		
<l 18c=""> Of the CFLs you received through the program, what percer</l>	0.00	0.00	the seaso 0.00 0 ate were	0.00 0.00	0.00	0.00	0.00 0 use?	0.00	0.00	0.00	0.00	0.00	0.00
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<li18c> Of the CFLs you received through the program, what percer of the CFLs you received through the program and the CLI19C> Were any of the program provided lighting equipment install to the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the CLI19C> Were any of the program provided lighting equipment install the CLI19C> Were any of the C</li18c>	0.00 0 100.00 22 led at ano 99.88	0.00 0 /ou estim 100.00 9 other facil 99.66	1 the seaso 0.00 0 ate were 100.00 13 ity? If so.	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0 0 storage 100.00 5 rcentage	0.00 0 e for later 0.00 0 would you	0.00 0 use? 0.00 0 usestimate	0.00 0 100.00 2 7	0.00 0 100.00 1	0.00 0 100.00 6	0.00 0 100.00 3	0.00 0 0 0.00 0	100.00
<li18c> Of the CFLs you received through the program, what perceived through the program, what perceived through the program provided lighting equipment instal 0 102 n</li18c>	0.00 0 100.00 22 led at ano 99.88 0.12 296	0.00 0 7ou estim 100.00 9 9ther facil 99.66 0.34 159	1 the seaso 0.00 0 ate were 100.00 13 ity? If so, 100.00 0.00 137	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0 e for later 0.00 0 would you 100.00 0.00	0.00 0 use? 0.00 0	0.00 0 100.00 2	0.00	0.00	0.00	0.00 0 0.00 0	0.00
<li18c> Of the CFLs you received through the program, what perceived through the program, what perceived through the program provided lighting equipment instal 0 102 n <li20c> What type of lighting was removed and replaced when you High Performance T8</li20c></li18c>	0.00 0 100.00 22 led at ano 99.88 0.12 296 nstalled ti	0.00 0 100.00 9 other facil 99.66 0.34 159 he lighting	1 the seaso 0.00 0 ate were 100.00 13 ity? If so, 100.00 0.00 137 g equipme 0.47	0.00 0 0laced int 100.00 2 what per 1.28 59 ent throug	0.00 0 storage 100.00 5 rcentage 100.00 0.00 25 gh the Pro	0.00 0 for later 0.00 0 would you 100.00 0.00 23 0gram?	0.00 0 use? 0.00 0 usestimate 100.00 0.00 1	0.00 0 100.00 2 ? 100.00 0.00 50	0 0.00 0 100.00 1 100.00 0.00 43	0.00 0 0.00 100.00 6 100.00 0.00 23	100.00 100.00 3 100.00 0.00 21	0.00 0.00 0.00 0.00 0.00 0.00 1.00.00	100.00 3 100.00 0.00 48
LIRSC> Of the CFLs you received through the program, what perceived through the program, what perceived the program provided lighting equipment install the program provided lighting equipment in the program provided lighti	0.00 0 100.00 22 led at and 99.88 0.12 296 nstalled t	0.00 0 7ou estim. 100.00 9 other facil 99.66 0.34 159 he lighting	1 the seaso 0.00 0 ate were 100.00 133 ity? If so, 100.00 0.00 137 g equipm 0.47 3.09	0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0 storage 100.00 5 rcentage 100.00 0.00 25 gh the Pro	0.00 6 for later 0.00 0 would you 100.00 0.00 23 ogram?	0.00 0 use? 0.00 0 use? 0.00 0 usestimate 100.00 0.00 1	0.00 0 100.00 2 7 100.00 0.00 50	0.00 0 100.00 1 100.00 0.00 43	0 0.00 0 100.00 6 100.00 0.00 23	100.00 3 100.00 0 0 0 0.00 21	0.00 0 0.00 0 100.00 0.00	100.00 3 100.00 0.00 48
LI18C> Of the CFLs you received through the program, what percer 0 <li19c> Were any of the program provided lighting equipment instal 0 102 7 <li20c> What type of lighting was removed and replaced when you was removed and replaced from the program of the</li20c></li19c>	0.00 0 100.00 100.00 22 led at ano 99.88 0.12 296 nstalled t 0.70 3.11 0.00 4.09	0.00 0 0 0 0 0 0 0 0 0 0 0 0	1 the seaso 0.00 0 ate were 100.00 130 137 147 ff so. 100.00 0.00 137 2 equipm. 0.47 3.09 0.00 0.00	0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0 storage 100.00 5 rcentage 100.00 0.00 25 gh the Pro 0.00 0.00 0.00	0.00 0 for later 0.00 0 would you 100.00 23 ogram? 0.00 0.00 0.00 0.00	0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 100.00 2 7 100.00 0.00 50 0.00 1.89 0.00 3.79	0 0.00 0 100.00 1 100.00 0.00 43 4.81 1.87 0.00 9.05	0 0.00 0 100.00 6 100.00 23 0.00 0.00 0.00 0.00 1.52	100.00 100.00 3 100.00 21 0.00 0.00 0.00 0.00 0.00	0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00 100.00 3 100.00 48 0.00 7.97 0.00 6.76
**ELH8C> Of the CFLs you received through the program, what perceived through the program, what perceived through the program provided lighting equipment install of the program provided lighting equipment install of the program provided lighting equipment install the program of the program	0.00 0 100.00 22 led at anc 99.88 0.12 296 nstalled ti 0.70 3.11 0.00 4.099 0.00 2.87	0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 the seaso 0.00 0 the seaso 100.00 130 100.00 100.00 137 3 309 0.00 3.47 0.00 0.00 2.74	0.00 0.00 0 0.00 0 0.00 2 what pee 98.72 1.28 599 ent throug 12.37 0.00 18.42 0.00 0.00	0.000 0 storage 100.00 5 reentage 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 0.00 0 100.00 2 7 100.00 0.00 50 0.00 1.89 0.00 3.79 0.00 7.84	0 0.00 0 100.00 100.00 0.00 43 4.81 1.87 0.00 9.05 0.00 0.00	0 0 0.00 0 100.00 6 100.00 0.00 0.00 0.00 0.00 1.52 0.00	100.00 0 00 100.00 3 100.00 0.00 21 0.00 0.00 0.00 0.00 0.00 0.00	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 100.00 100.00 0.
**EL18C> Of the CFLs you received through the program, what perceived through the program, what perceived through the program provided lighting equipment instal of the program provided lighting equipment instal of the program of th	0.00 0 100.00 22 ed at ano 99.88 0.12 296 nstalled ti 0.70 3.11 0.00 4.09 0.00 2.87 0.00 54.66	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 the seaso 0.00 0 ate were 100.00 100.00 100.00 0.00 100.00 0.47 3.09 0.00 3.47 0.00 2.74 0.00 59.28	0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 0 storage 100.00 0 storage 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 0 for later 0.00 100.00 100.00 23 0.00 0.00 0.00 0.00 0.00 0.00 0	0 0.00 0 0 0.00 0.00 0.00 0.00 0.00 0.	0 0 0.00 0 0 100.00 2 7 100.00 0.00 50 0.00 1.89 0.00 0.3.79 0.00 7.84 0.00 0.00 3.90 0.00	0 0.00 0 100.00 1 100.00 0.00 43 4.81 1.87 0.00 9.05 0.00 0.00 0.00 0.00	0 0.00 0 100.00 6 100.00 0.00 0.00 0.00	100.00 0 00 100.00 3 100.00 0.00 21 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0 0.00 0 0 0 0 0 0.00 0.00 0.00 0.00 0	0.00 0.00 100.00 100.00 0.00 0.00 0.00 0.00 0.00 0.7.97 0.00
LI18C> Of the CFLs you received through the program, what percer 0 <li19c> Were any of the program provided lighting equipment instal 0 102 102 LI20C> What type of lighting was removed and replaced when you in High Performance T8 T8 fluorescent fixtures (In diameter b T10 fluorescent fixtures) T10 fluorescent fixtures T12 fluorescent fixtures Compact HID (High Intensity Discharge) F Screw-in Modular CFLS Hardwird CFL Fixtures</li19c>	0.00 0 100.00 22 led at ano 99.88 0.12 296 nstalled ti 0.70 3.11 0.00 4.09 0.000 2.87	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### the seaso ### control of the seaso ### con	0.00 0.00 0 laced int 100.00 2 what per 98.72 1.28 59 ent throug 18.42 0.00 0.00 0.00	0.000 0 storage 100.00 5 reentage 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00	0 0.00 0 100.00 2 7 100.00 0.00 50 1.89 0.00 3.79 0.00 7.84 0.00	0 0.00 0 100.00 1 100.00 0.00 43 4.81 1.87 0.00 9.05 0.00 0.00	0 0 0.00 0 1 100.00 6 1 100.00 0.00 0.00 0.00 1.52 0.00 0.00 0.00	0.00 0 100.00 3 100.00 0.00 21 0.00 0.00 0.00 0.00 0.00	0 0.00 0 0.00 0 0.00 0 0.00 0.00 0.00 0	0.00 0.00 100.00 100.00 0.
LI18C> Of the CFLs you received through the program, what percer 0 <li19c> Were any of the program provided lighting equipment instal 0 102 4 <li20c> What type of lighting was removed and replaced when you in the percent for the per</li20c></li19c>	0.00 0 100.00 22 ed at ano 99.88 0.12 296 nstalled ti 0.70 3.11 0.00 4.09 0.00 2.87 0.00 54.66 0.00	0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### seaso 0.00 0 ate were 100.00 100.00 100.00 137 g equipm 0.07 3.09 0.00 2.74 0.00 59.28 0.00 46.64	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 storage 100.00 5 ccentage 100.00 0.00 0.00 0.00 0.00 0.00 0.00 71.04 0.00 0.00 0.00 0.00 0.00 8.20	0.00 0 1 for later 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0.00 0 0 2 7 100.00 0.00 50 0.00 1.89 0.00 3.79 0.00 7.84 0.00 39.07 0.00	0 0.00 0 100.00 1 100.00 0.00 43 4.81 1.87 0.00 9.05 0.00 0.00 0.00 27.18 0.00 0.00	0 0.000 0 100.00 0.0000 0.000	100.00 0 100.00 3 100.00 21 100.00 0.0	0 0.00 0 0 0 0.00 0.00 1 0.00 0.00 0.00	100.00 100.00 100.00 0.00
LI18C> Of the CFLs you received through the program, what perceived through the program, what perceived through the program provided lighting equipment instal of the program provided lighting equipment instal program provided program provided provided program provided provided provided provided program provided p	0.00 0 100.00 22 ed at ano 99.88 0.12 296 nstalled ti 0.70 4.09 0.00 54.66 0.00 0.00 38.19 0.00 0.00	0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	### seaso 0.00 0 ate were 100.00 100.00 137 137 100.00 0.00 3.47 0.00 3.47 0.00 59.28 0.00 0.00 46.64 0.00 0.00 0.00	0 n.} 0.00 0 placed int 100.00 2 what pee 98.72 1.28 59 ent through 1.2.37 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 storage 100.00 0 0.00 25 0 hthe Pro 0.00 0.00 1.93 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 1 for later 0.00 0 0 100.00 23 09gram? 0.00 0.00 0.00 0.00 0.00 0.00 18.10 0.00 0.0	0 0.00 0 0 0.00 0.00 0.00 0.00 0.00 0.	0 0.00 0 0.00 100.00 0.00 1.89 0.00 0.00 3.79 0.00 3.907 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 0.00 0 100.00 1 100.00 0.00 43 4.81 1.87 0.00 9.05 0.00 0.00 0.00 0.00 0.00 0.00	0 0.00 0 0 100.00 0.00 23 0.00 0.00 0.00 0.00 0.00 0	100.00 100.00 3 100.00 21 0.00	0 0.00 0 0 0 0 0 0.00 0.00 0.00 0.00 0	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000
**ELIBC> Of the CFLs you received through the program, what perceived through the program, what perceived through the program provided lighting equipment instal of the program provided provided program provided	0.00 0 0 100.00 100.00 100.00 99.88 0.12 296 0 100.00 0.70 1.3111 0.00 4.09 0.00 0.00 0.00 38.19 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 overstim 100.00 9 yether facili 99.66 0.34 159 he lightin 1.12 0.00 5.24 0.00 0.00 46.05 0.00 0.00 0.00 0.00 1.13	### the seaso ### control of the seaso ### con	0 n.} 0.00 0 laced im 100.00 98.72 1.28 98.72 1.28 5.95 12.37 0.00 18.42 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 storage 100.00 0 0.00 25 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 for later 0.00 0 would you 100.00 23 gram? 0.00 0.00 0.00 0.00 0.00 0.00 18.10 0.00 0.0	0 0.00 0 0 0.00	0.00 0.00 0 100.00 2 7 100.00 0.00 1.89 0.00 3.79 0.00 7.84 0.00 3.97 0.00 0.00 0.00 0.00	0 0.00 0 100.00 100.00 0.00 43 4.81 1.87 0.00 0.00 0.00 27.18 0.00 0.00 0.00 0.00 0.00 0.00	0 0.00 0 100.00 6 100.00 0.00 0.00 0.00	100.00 0 100.00 3 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.000 0.000
**ELIBC> Of the CFLs you received through the program, what perceived through the program, what perceived through the program provided lighting equipment instal of the program provided in the provided program provided provided program provided p	0.00 0 0 100.00 22 10d at anc 99.88 0.12 296 0.12 296 0.12 296 0.12 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0 ovu estim 100.00 9 other facil 99.66 0.344 159 he lightim 1.12 3.144 0.00 0.00 0.00 0.00 0.00 1.13 0.00 0.00	### the seaso ### control of the seaso #### control of t	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0 storage 100.00 100.00 25 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 1 for later 0.00 0 0 100.00 0 0 0 0 0 0 0 0 0 0 0 0	0.00	0 0.00 0 100.00 2 7 100.00 0.00 1.89 0.00 1.89 0.00 3.79 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 0.00 0 100.00 6 100.00 0.00 0.00 0.00	100.00 100.00 3 100.00 27 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
LI18C> Of the CFLs you received through the program, what percer 0 <li19c> Were any of the program provided lighting equipment instal 0 102 102 <li20c> What type of lighting was removed and replaced when you in the percent flature (in diameter by 170 fluorescent flatures) (in diameter by 170 fluorescent flatures) (in diameter by 170 fluorescent flatures) (in diameter by 171 fluorescent flatures) (in</li20c></li19c>	0.00 0 ontage do y 100.00 22 led at ano 99.88 0.12 296 nstalled ti 0.70 3.11 0.00 4.09 0.00 54.66 0.00 0.00 38.19 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 ostim 100.00 99.66 99.66 0.344 759 he lightin 1.122 3.14 0.00 3.10 0.00 46.05 0.00 22.43 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	### seaso 0.00 0.00 ate were 100.00 100.00 1377 0.00 1377 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0 storage 100.00 5 centage 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0 for later 0.00 100.00 100.00 23 0.00 0.00 0.00 0.00 0.00 0.00 18.10 0.00 0.0	0 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00	0 0.00	0.00 0.00 0.00 0.00 0.00 43 4.81 1.87 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 0 000 0 100.00 0 000 0.00 0.00 0.00 0.	0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<li18c> Of the CFLs you received through the program, what percer 0 0 4LI19C> Were any of the program provided lighting equipment instal 0 102 4LI20C> What type of lighting was removed and replaced when you High Performance 18 18 floorsecent flotures (In. diameter b 170 fluorescent flotures 171 fluorescent flotures Compact HID (High Intensity Discharge) F Screw-in Modura CFLS Hardwind CFL Fixtures Incandescent bulbs CFL Exit Signs LED Exit Signs LED Exit Signs Halogen bulbs Reflectors Electronic Ballast Magnetic Ballast Magnetic Ballast Magnetic Ballast Maynet Signs Lighting Controls, Time Clock Lighting Controls, Bypass Delay Timers Lighting Controls, Decopancy Sensor Lighting Controls, Sphass Delay Timers Lighting Controls, Photoceal Utiph Controls, Octopancy Sensor Lighting Controls, Photoceal Other Other</li18c>	0.00 0 0 100.00 22 ed at anough a series of the series of	0.00 0 ostim 100.00	## the seaso ## control of the	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 0.0000 0.00000000000000000000000	7 0.000 7 100 100 100 100 100 100 100 100 10	0 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00	000 000 000 000 000 000 000 000 000 00	0,00 0,00 0,00 100,00 100,00 0,00 0,00	0 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00	100.00 100	0,000 0 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0 0,000 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<li18c> Of the CFLs you received through the program, what percer 0 0 ALI9C> Were any of the program provided lighting equipment instal 0 102 <li20c> What type of lighting was removed and replaced when you High Performance 18 18 High Performance 18 18 T8 fluorescent foutures (in. dameter b 170 fluorescent foutures 171 fluorescent fixtures Compact HID (High Intensity Discharge) F Screw-in Modular CFLS Hardwired CFL Fixtures Ican descent bulbs CFL Ext Signs LED Ext Signs Hatogen bulbs Reflectors Electronic Ballist Magnetic B</li20c></li18c>	0.000 0.000	0.000 0.000	### the season of the season o	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 000 0 storage of 10000 0 100000 0 100000 0 10000 0 10000 0 10000 0 10000 0 10000 0 10000 0 10000 0 1	0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 100.00 2 7 100.00 0.00 189 0.00 1.89 0.00 0.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,000 0,000 6 100,000 6 100,000 0,000	1 100.00	0,000 0 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0 0,000 0 0,000 0 0 0	0.00 (
<li18c> Of the CFLs you received through the program, what percer 0 0 cLI19C> Were any of the program provided lighting equipment instal 0 102 cLI20C> What type of lighting was removed and replaced when you High Performance 18 176 fluorescent fixtures (1in. diameter b 170 fluorescent fixtures 171 fluorescent fixtures Try 1 fluorescent fixtures Compact HID (High Intensity Discharge) F Screw-in Modular CFLS Hardwird CFL Fixtures Ican descent bulbs CFL Ext Signs LED Ext Signs Halogen bulbs Reflectors Reflectors Maynetic Ballist Maynetic Balli</li18c>	0.00 0 tage do y 100.000 22 led at ano 99.88 0.12 2.96 0.12 0.70 3.11 0.00 4.09 0.00 54.66 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.000 0.000	T	0.000 0.000	0.000 0 storagegard 100.000 0 storagegard 100.000 0 storagegard 100.000 100.000 0 storagegard 100.000 0 storag	0.00	000 000 000 000 000 000 000 000 000 00	000 000 000 000 000 000 000 000 000 00	0.00 0.00 0.00 100.00 100.00 43 4.81 1.87 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.00 100.00 3 100.00 0 0 0 0 0 0 0 0 0 0 0 0	0,000 0 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0 0 0,000 0 0 0 0 0 0	0.00 () () () () () () () () () (
<li18c> Of the CFLs you received through the program, what percer 0 0 n LI19C> Were any of the program provided lighting equipment install 0 102 <li20c> What type of lighting was removed and replaced when you high Performance T8 T8 fluorescent fixtures (1in. diameter b 17 fluorescent fixtures T12 fluorescent fixtures Compact HID (High Intensity) Biocharge) F Screw-in Modular CFLS Hardwird CFL Fixtures Incandescent bulbs CFL Exit Signs LED Exit Signs Halogen bulbs Reflectors Electronic Balliast Manual Switches Lighting Controls, Time Clock Lighting Controls, Cocupancy Sensor Lighting Controls, Occupancy Sensor Lighting Controls, Occupancy Sensor Lighting Controls, Photocel Other FatThick Tubes SkinnyrThin Tubes T5 Fixtures (56th climater) T5 Fixtures (56th climater)</li20c></li18c>	0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 estimated from the control of	T T T T T T T T T T	0.000 0.000	0 0 storage 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,00 000	0,000 0,000 100,000 100,000 100,000 110,000	0,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 100.00	0.00 0.00 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00	0.00 (
LI18C> Of the CFLs you received through the program, what percer 0 QLI19C> Were any of the program provided lighting equipment instal 0 102 0 102 7 Selection of the program provided lighting equipment instal 10 10 10 10 10 10 10 10 10 10 10 10 10	0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 stimulation of the control of	## the season of	0 0 0 0 0 0 0 0 0 0	0 o storage 100 o o storage 100 o o o storage 100 o o o o o o o o o o o o o o o o o o	0000 0000 0000 0000 0000 0000 0000 0000 0000	0 use? 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,000 000 100,000 200 200 200 100,000 000 000 000 000 000 00	0.00 0.00 0.00 0.00 100.00 100.00 100.00 100.00 1100.00 1187 0.00 0	0,000 0 100,000 6 100,000 0,00	1 100.00 100.00 100.00 100.00 159 100.00 100.00 159 100.00	0.00 0.00	0.00 (
<li18c> Of the CFLs you received through the program, what perceived. 0 0 102 4LI19C> Were any of the program provided lighting equipment install on the program provided lighting equipment install on the program provided lighting equipment install on the program of the progr</li18c>	0.000 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.000 of stimular of the control of t	### The season of the season o	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 o storage 100.00 o storage 100.00 fo contage 1	0.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.	0.00 0.00	0,000 0,	100.00 0 00 0 00 0 00 0 00 0 00 0 00 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000.000.000.000.000.000.000.000.000.

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<li22c> Approximately how old was the equipment that were remov Less than 5 years old</li22c>	39.25 39.92	placed? 41.24 25.67	38.20 47.42	33.17 34.16	88.12 3.22	55.05 16.17	0.00	31.12 18.43	26.05 26.07	97.83	64.13 17.43	0.00	55.86 26.66
Between 5 and 10 years old Between 10 and 15 years old or More than 15 years old years	9.65 6.44	14.56 7.20	7.06 6.04	1.00 31.67	7.13 1.53	27.39 1.39	100.00 0.00 0.00	18.43 18.83 1.35	4.29 43.59	1.55	17.43 18.34 0.10	0.00	9.25 4.65
Don't Know	4.75	11.34	1.28	0.00	0.00	0.00	0.00	30.27	0.00	0.00	0.00	0.00	3.58
<li23c> How would you describe the condition of the lighting equipm Poor condition</li23c>	nent that v	was remo 9.78	ved and r 9.86	eplaced? 32.51	1.14	9.83	0.00	2.45	36.06	4.26	11.52	0.00	11.11
Fair condition or Good condition	47.59 37.95	40.01 39.22	51.58 37.28	27.18 40.31	9.77 89.09	46.53 43.63	100.00 0.00	39.30 28.94	34.61 29.33	21.24 74.50		100.00	28.59 56.72
Don't Know	4.63 184	10.98 95	1.28	0.00	0.00	0.00 17	0.00	29.31	0.00	0.00	0.00 17	0.00	3.58 32
<li24c> Approximately what percentage of the lighting equipment the second seco</li24c>	51.23 2.49	61.06 4.95	46.06 1.19	61.28 6.41	89.13 0.00	90.17 0.00	0.00 0.00	46.82 9.87	55.22 2.72	91.04	88.48	0.00	58.41 2.58
2 3	0.64	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.75
5 9	3.00 0.17	1.64 0.25	3.71 0.13	1.39 0.00	6.10 2.17	0.00	0.00	1.79 0.00	6.46 0.00	0.00 3.09	0.00	0.00	8.56 0.00
10 15	3.04 1.83	1.98 2.72	3.60 1.36	4.42 0.00	0.00	0.00	0.00	2.98 7.26	1.55 0.00	0.00	0.00	0.00	9.62 3.80
20 25 30	1.96 3.08 0.31	3.09 2.91 0.33	1.36 3.17 0.30	0.00 14.89 0.19	0.00 0.00 2.60	9.83 0.00 0.00	0.00 0.00 0.00	2.03 0.00 0.00	0.00 31.73 2.33	0.00 0.00 1.62	4.18 0.00 0.00	0.00	0.00 0.00
33 40	0.02	0.07	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00 7.34	0.00	0.00
45	0.00	0.01	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 7.64
90 95	0.12 23.73	0.00 7.83	0.18 32.10	0.00	0.00	0.00	0.00 100.00	0.00	0.00	4.26 0.00	0.00	0.00 100.00	0.00
102 n	4.62 184	10.96 95	1.28 89	0.00	0.00 16	0.00 17	0.00	29.24 31	0.00 26	0.00 12	0.00 17	0.00	3.58
<li30> Considering all of the lighting changes we just discussed that changes?</li30>													
0 1 2	0.16 0.32 0.02	0.39 0.45 0.00	0.07 0.27 0.02	0.00 1.80 0.00	0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00	0.00 2.25 0.17	0.00 0.00	0.00 0.00	0.00	0.19 0.00 0.00
5 10	0.35	0.20	0.40	0.24	0.00	0.00	0.00	0.37	1.64	0.00	0.00	0.00	0.52
15 17	0.96 0.23	0.34 0.88	1.18	0.34	0.00 7.15	0.00	0.00	0.68	0.27 0.00	0.00	3.01 0.00	0.00	2.12 0.00
20 25	1.97 0.82	1.87 1.82	2.01 0.48	1.55 5.32	2.87 0.00	2.11 1.69	0.00	1.85 0.45	1.59 1.35	12.89 0.00	1.79 2.83	0.00	2.37 0.00
30	0.70 0.23	0.32 0.71	0.83	0.00	1.01 4.52	0.00	0.00	0.51 0.39	0.91 0.00	0.83 1.17	0.00	0.00	1.75 0.00
35 40 45	4.30 4.10 0.01	0.05 0.84 0.06	5.80 5.24 0.00	0.15 0.23 0.00	0.00 3.09 0.00	0.05 0.00 0.00	0.00 0.00	0.00 1.05 0.14	1.20 1.03 0.00	0.84 1.07 0.00	0.00 0.29 0.00	16.99 12.88 0.00	0.00 2.02 0.00
50	8.33 1.20	6.86 2.41	8.84 0.78	12.40	0.95	4.90 6.23	0.00	7.18	3.94 2.04	3.51 2.14	25.18 3.47	0.77	13.36
70 75	10.34 3.65	3.53 5.85	12.72	1.87	5.67 23.76	0.00 12.94	21.49 0.00	3.04 0.27	0.69 6.12	3.74 12.26	8.03 7.73	27.97 0.00	6.04 1.63
80 85	6.19 1.95	6.10 3.10	6.22 1.55	1.83 5.89	4.47 0.51	6.65 0.00	0.00	10.04 4.15	7.02 8.73	16.86 0.77	0.00	0.00	11.62 1.18
90 95	9.15 3.11	4.31 5.09	10.85 2.42	5.89 5.09	3.34 9.75	6.05 2.70	0.00	3.36 5.56	15.03 5.54	8.31 2.51	14.82 1.18	8.13 0.00	11.07 3.85
98	0.58	0.00	0.26	3.96 0.00	4.10 0.00	0.00	0.00	0.00	0.00 2.86	4.83 0.00	0.00	0.00	0.00 1.55
100 102 n	39.80 0.07 561	52.63 0.05 278	35.31 0.08 283	48.88 0.00 106	26.96 0.40 38	56.69 0.00 34	69.43 0.00 3	58.86 0.00 96	34.28 0.00 93	24.76 1.54 43	31.68 0.00 34	32.86 0.00 10	40.27 0.00 102
<hb1> Thinking about all of the types of linear fluorescent bulbs that 0</hb1>			ugh the p		what is th		height ab				FEET]	0.00	4.41
5 6	0.65 0.70	0.56 0.22	0.69 0.91	0.00	10.47 0.00	0.00	0.00	0.00 0.52	0.00 0.27	13.83 0.97	0.00 0.75	0.00	0.00 1.64
7	0.01 14.19	0.05 11.64	0.00 15.31	0.00 10.68	0.00 29.48	0.00 9.33	0.00	0.11 12.81	0.00 27.26	0.00 13.89	0.00 29.84	0.00	0.00 14.38
9 10 11	4.13 26.18 16.77	3.79 38.37 6.49	4.28 20.82 21.29	5.97 33.25 0.00	8.72 36.81 4.97	3.33 34.12 0.00	0.00 0.00 100.00	2.50 49.46 0.00	1.56 28.04 0.00	35.09 18.63 0.00	1.08 23.84 0.00	0.00 0.00 98.05	4.77 27.80 0.00
112	9.91	6.36 0.45	11.47	8.36 0.00	0.00	11.32 0.00	0.00	4.49 1.08	4.49 0.00	0.00	3.32 0.00	0.00	23.35
14 15	1.87	0.54	2.45	1.86	0.00	0.00 30.07	0.00	0.14	7.97 14.31	0.00	8.70 19.09	0.00	0.09
16 17	2.88 0.24	5.41 0.78	1.77 0.00	7.67 0.50	0.00	0.00 0.00	0.00	8.11 1.54	0.00 0.00	0.00	6.67 0.00	0.00	2.05 0.00
18 20	0.31 5.27	0.82 7.34	0.08 4.36	3.18 12.48	0.00	0.00 11.76	0.00	0.00 4.08	0.48 1.97	0.00 2.44	0.00 4.17	0.00	7.65
22 25 26	0.38 0.08 0.20	0.00 0.15 0.43	0.54 0.05 0.10	0.00 0.59 0.00	0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 1.02	3.36 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00	0.00
26 28 30	0.20 0.03 0.81	0.43 0.11 0.31	0.10 0.00 1.03	0.00	0.00	0.00 0.00	0.00 0.00 0.00	0.26 0.74	0.00	0.00	0.00	0.00	0.22 0.00 2.32
66 99	0.34	0.16 5.48	0.42	0.63	0.00	0.00	0.00	0.00	0.00	0.00		1.95	0.00 9.73
<hb2> Just to double check, was any of the linear fluorescent lightin</hb2>	336	169	167	67	17	21	1	62	61	19	22	2	62
HIGH BAY lighting. Yes	2.74	1.51	3.22	4.20	5.50	0.00	0.00	0.40	13.40	0.00	0.83	0.00	3.18
No Don't Know n	96.01 1.26 229	95.33 3.17 112	96.27 0.52 117	94.02 1.78 44	94.50 0.00	88.15 11.85	100.00 0.00	98.00 1.60 41	84.86 1.74 44	100.00	99.17 0.00 13	0.00 0.00	96.16 0.66 44
<hb3> What is the main kind of linear bulbs located at this height? T8s</hb3>	37.76	28.88	43.62	55.20	61.11	9.21	0.00	11.76	71.78	39.74	45.44	0.00	19.64
10s 75s Other	37.76 3.39 5.60	0.72 1.12	5.16 8.57	0.00	0.00	0.00	0.00	2.53	16.27 9.56	0.00	0.00	0.00	0.00
Refused Don't Know	0.00 50.41	0.00 61.68	0.00 42.96	0.00 44.80	0.00	0.00 65.85	0.00	0.00	0.00 11.95	0.00 60.26	0.00	0.00	0.00 66.16
n <hb1a> Other than linear fluorescents, is any of the lighting installed</hb1a>	92 through t	48 the progra	44 am consid	23 dered to b	e High Ba	7 ay? (If nee	o eded, light	15 ting highe	19 er than 13	ft)	9	0	13
Yes No	30.57 67.39	19.41 76.85	34.48 64.07	15.39 81.74	38.27 52.92	26.53 67.18	21.49 78.51	12.02 86.03	19.30 79.73	19.52 75.56	14.59 77.85	58.90 41.10	73.27
Don't Know	2.04 561	3.74 278	1.44 283	2.87 106	8.81 38	6.28 34	0.00	1.95 96	0.96 93	4.92 43	7.56 34	0.00	0.59 102

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small (%)
<hb2a> What kind of High Bay Lighting is it? HID (High-intensity discharge) High Pres</hb2a>	0.37	1.54	0.14	0.00	0.58	0.00	0.00	5.93	0.00	0.00	0.00	0.00	0.48
HID Metal Halide	23.38	6.26 0.22	26.76 0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	47.49 0.00	0.00
HID Mercury Vapor HID - Don't Know what type	1.59	6.02	0.00	0.00	0.00	22.94	0.00	0.92	0.00	0.00	15.34	0.00	0.00
CFLs Other	0.39 31.59	0.69 13.45	0.33 35.17	0.00	2.49 0.00	0.00 40.42	0.00	0.38 11.05	0.00 40.33	10.92	0.00 48.61	0.00 21.87	0.00 61.16
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	12.77 86	32.51 36	8.88 50	51.48 9	0.00	24.77 4	0.00	67.47 13	7.80 13	10.94 6	20.07	1.10 5	22.17 20
<del1> We also show that you delamped linear fluorescent fixtures.</del1>	77.95	rrect? 81.11	77.11	100.00	100.00	100.00	0.00	58.39	100.00	63.90	100.00	0.00	71 27
Yes No	0.86	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.37 1.41
Don't Know	21.18	18.89 19	21.80 18	0.00	0.00	0.00	0.00	41.61 12	0.00	36.10 3	0.00	0.00	27.22 10
<del1a> As part of the retrofit you had done during your participation</del1a>							e?						
Yes No	8.62 66.16	7.34 78.90	9.15 60.95	6.36 86.82	0.00 81.76	90.24	0.00	13.87 85.78	7.94 90.02	3.97 96.03	0.00	0.00 1.95	22.91 76.29
Don't Know	25.22 210	13.76 101	29.90 109	6.82 37	18.24 10	9.76 14	100.00	0.35 38	2.04 40	0.00	0.00	98.05	0.80
<del2> Have you had Removal only Delamping done within your fac</del2>			103	37	70	14	,	30	70		,,,		37
Yes No	4.88 93.52	5.64 90.32	4.46 95.27	12.20 77.44	0.00 95.06	0.18 99.82	0.00	3.56 96.44	0.00 98.30	2.59 97.41	17.12 82.88	100.00	4.25 95.75
Don't Know	1.61	4.05	0.27	10.36	4.94	0.00	0.00	0.00	1.70	0.00	0.00	0.00	0.00
n SEL2a> What percent of the original fixtures within the retrofitted as	220 rea were i	118 removed?	102	52	13	12	0	41	34	20	8	1	39
Between 0 and 15 Percent	30.42	4.51	48.35	0.00	0.00	100.00	0.00	15.72	0.00	0.00	0.00	0.00	75.13
Between 15 and 30 Percent Between 30 and 45 Percent	6.47 9.46	15.81 0.00	0.00 16.00	21.40 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 24.87
Between 45 and 60 Percent Between 80 and 100 Percent	1.22	2.98	0.00 3.78	0.00	0.00	0.00	0.00	11.62	0.00	0.00 67.88	0.00	0.00	0.00
100 Percent	39.99	58.06	27.48	78.60	0.00	0.00	0.00	0.00	0.00	32.12	100.00	0.00	0.00
Don't Know	10.21 13	18.64 6	4.38 7	0.00	0.00	0.00	0.00	72.65 3	0.00	0.00	0.00	100.00	0.00
<del3> Have you had Remove and Replace Delamping done within y</del3>	our facili	ty since 2	009?										_
Yes No	23.91 72.35	32.22 60.68	19.35 78.74	24.98 72.52	39.92 37.02	51.72 22.34	0.00	29.18 70.82	17.79 80.51	26.27 72.85	22.41 54.49	0.00	18.49 81.51
Don't Know	3.74 220	7.11 118	1.90 102	2.49 52	23.06	25.93 12	0.00	0.00 41	1.70 34	0.88 20	23.11	0.00	0.00
<del3a> What type of fixtures were removed?</del3a>	220	118	102	52	13	12	o l	41	34	20	٥	- 1	39
2	3.64 33.16	0.00 19.73	6.96 45.41	0.00 9.71	0.00	0.00	0.00	0.00 46.66	0.00 58.93	53.47 0.00	0.00	0.00	0.00 56.94
13	0.27	0.56	0.00	0.00	4.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	5.40 5.47	11.33 7.86	0.00 3.28	0.00	0.00	47.41 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Describe Type of Fixtures	24.20	34.00	15.26	45.51	5.97	44.59	0.00	28.65	15.42	24.81	100.00	0.00	3.12
Don't Know n	27.86 56	26.51 33	29.08 23	30.33 15	89.64 4	8.00 4	0.00	13.70 10	3.37 9	21.72 4	0.00	0.00	39.94 8
<del3b> What type of fixtures were installed?</del3b>	45.00	17.48	40.04	2.05	0.00	0.00	0.00	46.07	40.00	0.00	0.00	0.00	16.03
1 2	15.26 23.70	4.40	13.24 41.30	2.05 2.70	0.00	0.00	0.00	10.02	19.68 53.93	53.47	0.00	0.00	40.91
13	0.27 13.47	0.56 21.47	0.00 6.18	0.00	4.39 0.00	0.00 47.41	0.00	0.00 27.57	0.00	0.00	0.00	0.00	0.00 9.59
21	2.02	3.82	0.38	14.45	0.00	0.00	0.00	0.00	2.60	0.00	0.00	0.00	0.00
Describe Type of Fixtures Don't Know	21.57	25.43 26.83	18.05 20.86	45.51 35.29	5.97 89.64	44.59 8.00	0.00	5.34 11.00	16.98 6.80	24.81 21.72	100.00	0.00	7.08 26.40
n	56	33	23	15	4	4	0	10	9	4	2	0	8
<del3c> How many lamps per fixture were present prior to the delar</del3c>	nping reti 2.86	0.99	4.57	0.00	0.00	0.00	0.00	2.70	0.00	0.00	0.00	0.00	7.08
2 3	30.17 2.03	19.41	39.98 3.89	50.34	0.00	24.02	0.00	0.96	25.67 0.00	8.57 0.00	58.41 0.00	0.00	47.38 6.03
4	50.33	52.03	48.79	40.46	10.36	20.57	0.00	95.37	55.50	91.43	41.59	0.00	39.51
Don't Know	14.60 56	27.57 33	2.78 23	9.20 15	89.64 4	55.41 4	0.00	0.97 10	18.83 9	0.00 4	0.00	0.00	0.00
<del3d> How many lamps per fixture are present Now, after the delagation.</del3d>	amping re												
1 2	18.79 58.44	10.16 48.09	26.65 67.88	38.38	0.00	0.00 44.59	0.00	0.00 75.66	1.80 98.20	0.00	0.00	0.00	40.91 50.61
3	6.70 8.71	14.04	0.00 5.47	10.25	0.00	47.41 8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	7.37	15.45	0.00	0.00	89.64	0.00	0.00	10.63	0.00	0.00	0.00	0.00	0.00
n CDEL3E> Approximately how old were the Ifixtures that were remove.	56	33	23	15 of this De	4 move an	4 d Ponlace	0 delamnin	10 n2 Would	9 Lyou say	4	2	0	8
Less than 5 years old	17.82	11.33	23.74	0.00	0.00	47.41	0.00	0.00	51.34	30.29	0.00	0.00	18.97
Between 6 and 10 years old Between 10 and 15 years old	45.97 8.50	42.62 14.91	49.02 2.65	38.61 54.20	95.68 0.00	20.57	0.00	41.27 1.55	26.27 17.99	0.00	41.59 0.00	0.00	65.01 0.00
More than 15 years old	26.23 1.48	30.36 0.78	22.47 2.11	7.19 0.00	0.00	32.02 0.00	0.00	56.57 0.61	4.40 0.00	53.47	58.41 0.00	0.00	16.03
Don't Know	56	33	23	15	4.32	4	0.00	10	9	16.24 4	2	0.00	0.00
<del3f> How would you describe the condition of the fixtures that w</del3f>	oro romo	wod and r	onlaced a	o o rocul	t of the E	lomovo o	nd Banlage	dolomni	na2 Wo	uld vou o	w thou wo	ro in	
Poor condition	1.04	1.36	0.74	5.15	0.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00
Fair condition or Good condition	51.38 45.83	72.03 22.93	32.55 66.71	90.90	94.03 5.97	75.98 24.02	0.00	48.17 41.80	22.39 72.61	53.47 46.53	41.59 58.41	0.00	29.57 70.43
Don't Know	1.76	3.69	0.00	0.00	0.00	0.00	0.00	10.02	0.00	0.00	0.00	0.00	0.00
OPEL3G> Approximately what percentage of the fixtures that were re-							to the Ren					U	8
0 Percent Between 0 and 15 Percent	84.81 8.95	87.62 7.36	82.26 10.40	89.17 7.10	95.61 4.39	79.43 20.57	0.00	89.02 0.00	77.01 20.40	46.53 0.00	58.41 41.59	0.00	93.53 6.47
Between 15 and 30 Percent	4.10	0.55	7.34	2.07	0.00	0.00	0.00	0.00	2.60	53.47	0.00	0.00	0.00
Between 45 and 60 Percent Between 60 and 80 Percent	0.21	0.44	0.00	1.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	1.76	3.69	0.00	0.00	0.00	0.00	0.00	10.02	0.00	0.00	0.00	0.00	0.00
OEL4> Have you had a delamping retrofit to reduce the number of land							U	10	9	4	- 2	U	8
Yes No	50.44 48.35	40.45 57.25	55.91 43.48	53.50 41.28	47.56 47.50	15.38 84.62	0.00	36.86 63.14	67.52 28.69	59.37 40.63	37.36 62.64	0.00	54.66 45.34
Don't Know	1.21	2.29	0.61	5.21	4.94	0.00	0.00	0.00	3.80	0.00	0.00	0.00	0.00
n SDEL4a> How many lamps per fixture were present prior to the delar	220 npina ret	118	102	52	13	12	0	41	34	20	8	1	39
1 to 10	89.36	92.11	88.27	98.58	64.29	100.00	0.00	92.19	100.00	97.14	100.00	0.00	82.67
51 to 100 n	10.64 109	7.89 58	11.73 51	1.42 28	35.71 4	0.00	0.00	7.81	0.00 17	2.86 9	0.00	0.00	17.33 22

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
DEL4bnew	87.75	90.33	86.73	99.23	64.29	100.00	0.00	86.57	98.81	97.14	100.00	0.00	80.68
3 n	12.25	9.67	13.27	0.77	35.71	0.00	0.00	13.43	1.19	2.86	0.00	0.00	19.32
<del5> Is the amount of lighting better, worse, or the same than bef</del5>	ore your	delamping	job?		,								
Better Worse	55.70 8.20	61.08 10.25	52.74 7.08	82.00 3.17	18.51 0.00	70.04 0.00	0.00	51.12 22.59	76.00 1.56	46.37 2.25	73.56 0.00	0.00	46.21 9.80
Same Don't Know	34.80 1.30	27.42 1.24	38.84 1.33	14.82 0.00	81.50 0.00	29.96 0.00	0.00	23.24 3.06	22.45 0.00	51.38 0.00	26.44 0.00	100.00	42.01 1.97
n	220	118	102	52	13	12	0	41	34	20	8	1	39
<del11> Did you install additional lighting equipment to increase the No n</del11>	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	100.00	0.00	0.00	100.00
<l_msp1> Since January 2010, have you purchased and installed an</l_msp1>		on your o	wn witho	out any as	·					t this fac			tions?
Yes-only at this facility Other	34.64 11.99	31.77 4.02	35.36 14.00	10.48 0.67	35.29 6.84	33.33 0.00	0.00 70.31	49.21	16.53 0.39	7.64 0.44	59.80 0.00	51.67 41.65	23.92
No	52.50	62.87	49.88	88.85	57.86	66.67	29.69	46.80	83.08	91.92	40.20	6.68	74.00
Don't Know	0.87 327	1.33 149	0.75 178	0.00 50	0.00	0.00	0.00	3.99 54	0.00 52	0.00	0.00	0.00	2.07 62
<lsp2> What type of fixtures, ballasts or light controls were installe High Performance T8</lsp2>	d as part 0.00	of this ligh	nting retr	ofit that w	as done	without ar	y assista	nce from 9	your Utili 0.00	ty? 0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures	3.97	0.55	4.60	1.16	0.00	0.00	0.00	0.98	30.13	0.00	19.66 19.66	0.00	3.13
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures- Compact Fluorescent, Screw-in Modular	16.08 4.57	0.00 3.52	19.02 4.76	0.00	0.00 12.51	0.00 4.56	0.00	0.00	0.00	0.00 8.96	0.00 9.63	27.11 0.00	10.76 19.09
Compact Fluorescent, Hardwire	14.60 1.25	0.74 2.60	17.14	0.00	0.00	4.56 16.00	0.00	0.00	0.00 2.14	0.00	0.00 6.56	27.11 0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED Halogen	0.00 8.48	0.00 17.89	0.00 6.76	0.00 6.00	0.00 64.24	0.00	0.00	0.00 6.80	0.00 2.29	0.00	0.00 19.66	0.00	0.00 22.50
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	2.30 0.00	0.00	2.71 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.66 0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell Other	0.55 2.87	3.54 0.00	0.00 3.39	0.00	0.00	0.00	0.00	7.71 0.00	0.00 6.46	0.00 6.74	0.00	0.00	0.00 17.33
Fat/Thick Tubes Skinny/Thin Tubes	0.09 2.91	0.55 0.81	0.00 3.29	4.05 0.00	0.00	0.00	0.00	0.47 1.75	0.00 7.78	0.00 15.87	0.00	0.00	0.00 15.91
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (Screw Based) Other -Record	11.10 38.98	0.75 22.40	12.99 42.00	9.07	0.00 6.41	0.00 78.88	0.00	0.00 1.90	0.00	0.00 63.02	0.00 73.78	20.56 44.63	0.00 16.72
Refused Don't Know	0.00 4.29	0.00	0.00 4.96	0.00 6.50	0.00	0.00	0.00	0.00	0.00 2.15	0.00	0.00	0.00 7.70	0.00
Screw-in LEDSs Reflector Lamps	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<li17> Were the HID lamps you installed High Pressure Sodium, Met.</li17>	79 al Halide,	33 Mercury V	46 apor or l	ncandesc	ent?	4	1	12	11	9	7	4	14
High Pressure Sodium Metal Halide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mercury Vapor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incadescent Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp2a_1> How many High Performance T8 Fluorescent Fixtures d</msp2a_1>	d you pu	rchase for	this faci	lity?									
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp2b_1> How many High Performance T8 Fluorescent Fixtures d</msp2b_1>	0.00 0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp4_1> On a scale from 0 to 10, where Zero indicates you Strongl</msp4_1>	y Disagre		ndicates		igly Agre								
Program influenced my decision to install this high efficiency equipm	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<pre></pre> <msp5_1> Why do you give it this rating?</msp5_1>	0	0	0	0	0	0	0	0	0	0	0	0	0
Record REASON Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp17_1> Why did you purchase this lighting without the financial.</msp17_1>						0	0	0	0	0	0	0	0
Too much paperwork Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (no time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended Equipment would not qualify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important enough Didn't know program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp19_1> Was this measure specifically recommended by a Progr</msp19_1>			ored Aud 0.00	it, report o	or progra	m technic			0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp20_1> If you had not participated in the Program, how likely is would Not have implemented this measure and 10 means you Definition.</msp20_1>	tely	-											
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp23_1> In what year did you install the High Performance T8 Flu</msp23_1>	orescent	Fixtures?	0.00										
n	0.00	0.00	0.00	0.00	0.00	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
And in which month (or season)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MSP25 45 Did you receive a relate for the High Berformance TS El	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp25_1> Did you receive a rebate for the High Performance T8 Fl</msp25_1>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0

 What type of lighting equipment was removed and repla	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter) Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew euqipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp27_1> Approximately how old was this lighting equipment that</msp27_1>	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
MSP28_1> How would you describe the condition of this removed example.	o equipment	?	0	0	0	0	0	0	0	0	0	0	0
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp29_1> Approximately what percentage of this removed lighting</msp29_1>					prior to i					1 inch di	ameter bul		0.00
n n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 <i>0</i>	0.00	0.00	0.00	0.00
<msp2a_2>How many T8 Fluorescent Fixtures (1 inch diameter bulb</msp2a_2>	22.52	purchase 0.00	23.01	facility?	0.00	0.00	0.00	0.00	79.34	0.00	0.00	0.00	0.00
5	13.44	82.48	11.94	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00
10	57.80 6.24	0.00 17.52	59.06 5.99	0.00	0.00	0.00		0.00	0.00 20.66	0.00	100.00	0.00	0.00
n	6.24	2	3.99	100.00	0.00	0.00	0.00	1	20.00	0.00	1	0.00	1
<msp2b_2> How many T8 Fluorescent Fixtures (1 inch diameter bull</msp2b_2>	os) did yo 0.00	u purchas	e for you 0.00	r other lo	cations?	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp4_2> On a scale from 0 to 10, where Zero indicates you Strong</msp4_2>	0 by Dispare	0 a and 10 i	0 ndicates	0	0	0		0 Howing of	0	0 My ove	0	0	0
Program influenced my decision to install this high efficiency equipn	nen												
5 10 STRONGLY AGREE	13.44 6.24	82.48 17.52	11.94 5.99	0.00	0.00	0.00	0.00	100.00	0.00 20.66	0.00	0.00	0.00	100.00
Zero Strongly disagree	80.32	0.00	82.07	0.00	0.00	0.00	0.00	0.00	79.34	0.00	100.00	0.00	0.00
MSDE 25 Why do you give it this rating?	6	2	4	1	0	0	0	1	2	0	1	0	1
<msp5_2> Why do you give it this rating? Record REASON</msp5_2>	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dontrilow	2	1	1	1	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00
<msp17_2> Why did you purchase this lighting without the financial</msp17_2>		e available					0.00		0.00			2.00	
Too much paperwork Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (no time to	35.96	82.48	34.95	0.00	0.00	0.00	0.00	100.00	79.34	0.00	0.00	0.00	100.00
Program had ended Equipment would not qualify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important enough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't know program was available No program available	57.80 6.24	0.00 17.52	59.06 5.99	0.00	0.00	0.00	0.00	0.00	0.00 20.66	0.00	100.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Dontknow	6	2	4	1	0.00			1	0.00	0.00		0.00	1
<msp19_2> Was this measure specifically recommended by a Progr</msp19_2>	am or Util	ity sponso	ored Audi 0.00	it, report o	or progra		al speciali	o.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp20_2> If you had not participated in the Program, how likely is Would Not have implemented this measure and 10 means you Defini</msp20_2>		r organiza	tion wou	ıd still ha	ve implen	nented thi	is measure	, using a	0 to 10 s	cale whe	re 0 mean	s you Defi	nitely
5 10 DEFINITELY WOULD HAVE	13.44 86.56	82.48 17.52	11.94 88.06	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00
n <msp23_2> In what year did you install the T8 Fluorescent Fixtures (</msp23_2>	6	2 meter bull	4	1	0	0	0	1	2	0	1	0	1
2010 2011	57.80 35.96	0.00 82.48	59.06 34.95	0.00	0.00	0.00	0.00	0.00	0.00 79.34	0.00	100.00	0.00	0.00
4 n	6.24 6	17.52 2	5.99 4	100.00	0.00	0.00	0.00	0.00	20.66 2	0.00	0.00	0.00	0.00
And in which month (or season)	57.80	0.00	59.06	0.00	0.00		0.00	0.00	0.00	0.00	100.00	0.00	0.00
June November	22.52	0.00	23.01	0.00	0.00	0.00		0.00	79.34	0.00	0.00	0.00	0.00
Spring	6.24	17.52	5.99	100.00	0.00	0.00	0.00	0.00	20.66	0.00	0.00	0.00	0.00
Don't Know	13.44	82.48 2	11.94 4	0.00	0.00	0.00		100.00	0.00	0.00	0.00	0.00	100.00
<msp25_2> Did you receive a rebate for the T8 Fluorescent Fixtures</msp25_2>		meter bu						l l	-				
No n	100.00	100.00	100.00	100.00	0.00	0.00		100.00	100.00	0.00	100.00	0.00	100.00

<msp26_2> What type of lighting equipment was removed and repla</msp26_2>	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures	71.24 0.00	82.48 0.00	70.99	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00
T12 Fixtures (1.5in. diameter bulbs)	6.24	17.52	5.99	100.00	0.00	0.00	0.00	0.00	20.66	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures- Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE) Nothing removednew euqipment	0.00 22.52	0.00	0.00 23.01	0.00	0.00	0.00	0.00	0.00	0.00 79.34	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	6	2	4	1	0	0	0	1	2	0	1	0	1
<msp27_2> Approximately how old was this lighting equipment that Less than 5 years old</msp27_2>	91.95	ved? 82.48	92.22	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00	0.00	100.00
More than 15 years old?	8.05	17.52	7.78	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
<msp28_2> How would you describe the condition of this removed e</msp28_2>	auipment	?	3	,	U	U	0	1	,	U	7	U	,
In Poor condition	91.95	82.48	92.22	0.00	0.00	0.00	0.00	100.00	0.00	0.00		0.00	100.00
Fair condition or n	8.05 5	17.52 2	7.78	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
<msp29_2> Approximately what percentage of this removed lighting</msp29_2>					ior to inst	alling T8			s (1 inch	diameter			
1 5	8.05 74.60	17.52 0.00	7.78 76.71	100.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00
100	17.35	82.48	15.51	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00
n <msp23_3> In what year did you install the T10 fluorescent fixtures?</msp23_3>	5	2	3	,	0	0	0	1	1	0	1	0	,
2010 n	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
And in which month (or season)		U	,	U	U	٥	· ·	U U	U	U		٥	U
December	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
<msp26_3> What type of lighting equipment was removed and repla</msp26_3>		you insta		10 fluore:	scent fixt	ures?							-
High Performance T8 T8 fluorescent fixtures (1in, diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
T10 fluorescent fixtures	100.00	0.00								0.00		0.00	0.00
T12 Fixtures (1.5in. diameter bulbs) HID (High Intensity Discharge) Fixtures-	0.00		100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 100.00	0.00	0.00
Compact Fluorescent, Screw-in Modular		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 100.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	0.00	0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 100.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Compact Fluorescent, Hardwire Incandescent	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Incandescent Generic LED (SCREW BASE)	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00
Incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00
incandescent Generic LED (SCREW BASE) Ext Signs, Compact Fluorescent Ext Signs, LED Halogen	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Exit Signs, LDD Halogen Install Reflectors	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
incandescent Generic LED (SCREW BASE) Ext Signs, Compact Fluorescent Ext Signs, LED Halogen	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Exit Signs, Compact Fluorescent Faxi Signs, Compact Fluorescent Hatogen Hatali Reflectors Electronic Balliest Magnetic Balliest Lighting Contrios, Time Clock	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Exit Signs, LCD Haldogen Install Reflectors Electronic Ballast Magnetic Ballast Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Incandescent Generic LED (SCREW BASE) Ext Signs, Compact Fluorescent Ext Signs, Compact Fluorescent Ext Signs, Logn Install Reflectors Electronic Ballast Magnetic Ballast Lighting Controls, Bypass/Delay Timers	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Exit Signs, LCD Haldogen Install Reflectors Electronic Ballast Magnetic Ballast Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Exit Signs, Compact Fluorescent Exit Signs, Loge Histall Reflectors Electronic Ballast Magnetic Ballast Magnetic Ballast Lighting Controls, Time Cleor, Lighting Controls, Sprass/Delay Timers Lighting Controls, Bypass/Delay Timers Lighting Controls, Controls, Fluorescent Lighting Controls, Proceeding Controls, Procee	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00
Incandescent Generic LED (SCREW BASE) Ext Signs, Compact Fluorescent Ext Signs, LED Hatogen Install Reflectors Electronic Ballast Magnetic Ballast Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor Lighting Controls, Photocel Lighting Controls, Photocel Lighting Controls, Photocel FatThick Tubes	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Install Reflectors Electronic Ballest Uphting Controls, Brogness Gallest Lighting Controls, Cocupancy Sensor Lighting Controls, Bypass (Occupancy Sensor Lighting Controls, Bypass (Parkers) Lighting Controls, Photocol Other Fall/Thick Tubes Stannyfi'n Tubes TS Fluores (Scill Amenter) Nothing removednew eutpinment Other Record	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00
Incandescent Generic LEO (SCREF WasSE) Exit Signs, Compact Fluorescent Exit Signs, Compact Fluorescent Exit Signs, Compact Fluorescent Exit Signs, Logan Install Reflectors Electrorin Ballast Magnetic Ballast Lighting Controis, Byass Polesiy Timers Sighting Controis, Byass Polesiy Timers Lighting Controls, Byass Polesiy Timer	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00
Incandescent Generic LED (SCREW BASE) Ext Signs, Compact Fluorescent Ext Signs, LED Halogen Install Reflectors Electronic Ballast Ughting Controls, Proceed Signs Lighting Controls, Time Clock Lighting Controls, Propass Polesty Timers Lighting Controls, Physics Physics Lighting Controls, Physics Polesty Timers Lighting Controls, Physics Physics Lighting Controls, Physic	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00
Incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Install Reflectors Electronic Balliest Uphting Controls, Cecupancy Sensor Lighting Controls, Bypass/Delay Timers Lighting Controls, Bypass/	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00
Incandescent Generic LED (SCREW BASE) Ext Signs, Compact Fluorescent Ext Signs, LCD Ext Signs, Compact Fluorescent Ext Signs, LCD Hadgen Install Reflectors Electrorin Ballast Magnetic Ballast Lighting Controls, Byass/Delay Timers Lighting Controls, Dyass/Delay Timers Lighting Controls, Dyass/Delay Timers Lighting Controls, Photocel Other Fat/Thick Tubes Signs, June Signs, Jun	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00
Incandescent Generic LED (SCRW BASE) Exit Signs, Compact Fluorescent Exit Signs, Compact Fluorescent Exit Signs, Compact Fluorescent Exit Signs, LED Hatogen Install Reflectors Electronic Balliest Magnetic Balliest Lighting Controls, Time Clock Lighting Controls, Dysas-Pleay Timer Sick Lighting Controls, Bysas-Pleay Timers Lighting Controls, Bysas-Pleay Timers Lighting Controls, Bysas-Pleay Timers Lighting Controls, Photocold Controls, Photocold Lighting Controls, Photocold Fat/Thick Tubes Signify Thin Tubes T5 Fat/Thick Tubes T5 Fat/Thick Tubes T6 Fat/Thick Tubes T7 Fat/Thick Tubes T7 Fat/Thick Tubes T8 Fat/Thick Tubes T8 Fat/Thick Tubes T9 Fat/Thick Tubes T8 Fat/Thick Tubes T9 Fat/Thick Tubes T8 Fat/Thick Tubes T9 Fat/Thick	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00
Incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Install Reflectors Electronic Ballast Lighting Controls, Ploace Ballast Lighting Controls, Sposspaney Sensors Lighting Controls, Sposspaney Sensors Lighting Controls, Photocol Lighting Controls, Photocol Cother Fall Thick Tubes Stannyl'in Tubes To Fluore (Scharmer) Nothing removed _new eutpinment Nothing removed_new eutpinment Other -Record Refused Don't Know Other -Record Refused Don't Know Don't Know To Stannyl'in	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.0000 0.0000 0.00	0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.0000 0.0000 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00
Incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Exit Signs, LED Halogen Install Reflectors Electronic Ballast Magnetic Ballast Lighting Controls, Plosas-Obelay Times Lighting Controls, Occupancy Sensor Lighting Controls, Ontone Sensor Sensor Lighting Controls, Ontone Lighting Controls, Ontone Sensor Sensor Lighting	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00
Incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Install Reflectors Electronic Balliest Lighting Controls Balliest Lighting Controls, Decupancy Sensor Lighting Controls, Occupancy Sensor Lighting Controls, Decupancy Sensor Lighting Controls, Dec	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.0000 0.0000 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.0000 0.0000 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Interview of Interview Inter	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.00	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000
Incandescent Generic LED (SCRW BASE) Exit Signs, Compact Fluorescent Exit Signs, Compact Fluorescent Exit Signs, Compact Fluorescent Hadogen Hatali Reflectors Electronic Balliest Magnetic Balliest Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Pay Timer Sick Lighting Controls, Photocoel Uighting Controls, Bypass/Pay Timer Sick Lighting Controls, Photocoel Territoris, Photocoel Other Fat/Thick Tubes Stimery Thin Tubes To Fat/Thick Tubes To Fat/Thick Tubes To Fixtures (5/8in. diameter) Nothing removedew eugipment Other Aecord Refused Don't Know AmsP27_3> Approximately how old was this lighting equipment that Between 5 and 10 years old In Poor condition «MSP28_3> How would you describe the condition of this removed to In Poor condition In Poor condition Signa Pays AmsP29_3> Approximately what percentage of this removed lighting Signa Pays Signa	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Install Reflectors Electroric Ballest Lighting Controls, Brocupancy Sensor Lighting Controls, Docupancy Sensor Lighting Controls, Docupancy Sensor Lighting Controls, Docupancy Sensor Lighting Controls, Docupancy Sensor Lighting Controls, Photocel Other FatThick Tubes Skinnylin in Tubes To Fixtures (Skinnylin in Tubes) Nothing removed. new euiginment Nothing removed. new euiginment Refused Don't Know **CMSP27_3> Approximately how old was this lighting equipment that Between 5 and 10 years old Skinnylin in Tubes **CMSP28_3> How would you describe the condition of this removed and the Poor condition **In Poor c	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

		ઉ		(%	ıst	+	(%)	(રૂ	s) %)	s) ast	s)	(%)	(S (S)
	ı,	.ED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(LED Lamp(s) Restaurant - Fa Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(LED Lamp(s) Retail - Small(%)	ED Reflector(s)	.ED Reflector(s) Restaurant - Fas Food(%)	ED Reflector(s) Restaurant - Sit Down(%)	ED Reflector(s)	LED Reflector(s)
<msp26_4> What type of lighting equipment was removed and repla</msp26_4>	ced when	you insta	lled the T	12 Fixture	es (1.5in.	diameter	bulbs)?						
High Performance T8 T8 fluorescent fixtures (1in, diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures- Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew eugipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp27_4> Approximately how old was this lighting equipment that</msp27_4>	0.00	ved? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp28_4> How would you describe the condition of this removed e</msp28_4>	quipment 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp29_4> Approximately what percentage of this removed lighting</msp29_4>												0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp2a_5> How many compact HID (High Density Discharge) Fixture</msp2a_5>													
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp2b_5> How many compact HID (High Density Discharge) Fixture</msp2b_5>	es did yo	u buy on y	our own		locations	?							
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp4_5> On a scale from 0 to 10, where Zero indicates you Strong</msp4_5>	y Disagre		ndicates										
Program influenced my decision to install this high efficiency equipm	o.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n .	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp5_5> Why do you give it this rating?</msp5_5>									0.00				
Record REASON Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp17_5> Why did you purchase this lighting without the financial.</msp17_5>	0	0 a available	0 through	0 utility r	0	0	0	0	0	0	0	0	0
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (no time to Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would not qualify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important enough Didn't know program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp19_5> Was this measure specifically recommended by a Progr</msp19_5>	am or Uti 0.00	0.00	ored Aud 0.00	it, report of 0.00	or progra 0.00	m technic 0.00	al specialis 0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp20_5> If you had not participated in the Program, how likely is a Would Not have implemented this massure and 10 means you Definite.</msp20_5>		ır organiza	ation wou	ld still ha	ve implen	nented thi	s measure	, using a	0 to 10 s	cale whe	re 0 means	you Defi	nitely
Would Not have implemented this measure and 10 means you Defini	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp23_5> In what year did you install the compact HID (High Densi</msp23_5>	ty Discha 0.00	rge) Fixtu 0.00	res? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
And in which month (or season)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n n	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp25_5> Did you receive a rebate for the compact HID (High Dens</msp25_5>								0.00	0.00			0.00	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

		(%)(s	(%)	s) all(%)	s) - Fast	s) - Sit	s) je(%)	s) III(%)	tor(s)	tor(s) - Fast	tor(s) - Sit	tor(s) ge(%)	tor(s)
	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fas Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<msp26_5> What type of lighting was removed and replaced when y High Performance T8</msp26_5>	ou installe	0.00	npact HII 0.00	0.00 (High De	ensity Dis	charge) F		0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell Other	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew eugipment Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
<msp27_5> Approximately how old was this lighting equipment that</msp27_5>				J				,	٠			-	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp28_5> How would you describe the condition of this removed e</msp28_5>				J			, ,	,	۰		•	-	
	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
												-	
<msp29_5> Approximately what percentage of the removed replace</msp29_5>	d lighting 0.00	equipmen 0.00	0.00	0.00	ot working 0.00	g prior to 0.00		0.00	0.00	High Den 0.00	sity Discha	arge) Fixtu	0.00
n	0	0	0	0	0	0		0	0	0	0	0	0
<msp2a_6> How many SCREW-IN MODULAR CFLs did you purchas 5</msp2a_6>	se for this 8.21	facility? 21.07	6.47	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	9.22
15	24.60	0.00	27.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
20 9999	11.04 56.15	78.93 0.00	1.87 63.73	0.00	100.00	0.00		0.00	0.00	100.00	0.00	0.00	90.78
n	6	2	4	0	1	1		0	0	1	1	0	2
<msp2b_6> How many SCREW-IN MODULAR CFLs did you purchas</msp2b_6>	e for you 0.00	other loc 0.00	cations? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp4_6> On a scale from 0 to 10, where Zero indicates you Strongl Program influenced my decision to install this high efficiency equipm</msp4_6>	ly Disagre nen	e and 10 i	ndicates	you Stror	ngly Agre	e, please	rate the fo	llowing st	atement	. My exp	erience wi	th the 201	0-2012
1 STRONGLY DISAGREE	24.60	0.00	27.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
10 STRONGLY AGREE Zero Strongly disagree	67.19 8.21	78.93 21.07	65.61 6.47	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	90.78 9.22
n	6	2	4	0	1	1	0	0	0	1	1	0	2
<msp5_6> Why do you give it this rating? Record REASON</msp5_6>	83.57	0.00	97.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
<msp17_6> Why did you purchase this lighting without the financial</msp17_6>							0.00	0.00	0.00	0.00	0.00	0.00	0.00
Too much paperwork Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (no time to	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Program had ended Equipment would not qualify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important enough	0.00 88.96	0.00 21.07	0.00 98.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't know program was available No program available	0.00	0.00	98.13	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	2.51	21.07	0.00	0.00	0.00	100.00		0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
n	6	2	4	0	1		0	0	0	1	1	0	2
<msp19_6>Was this measure specifically recommended by a Progra Yes</msp19_6>	100.00	0.00	100.00	0.00	r program 0.00	n technic 0.00	0.00	0.00	0.00	0.00		0.00	100.00
MSP20_6> If you had not participated in the Program, how likely is	1	0	1	0	0	0		0	0	0	0	0	1
Would Not have implemented this measure and 10 means you Defini	tely		ition wot	iia stiii na				, using a	0 10 10 8			s you ben	nitely
5 10 DEFINITELY WOULD HAVE	30.30 69.70	0.00 100.00	34.39 65.61	0.00	0.00	0.00		0.00	0.00	0.00	100.00	0.00	9.22 90.78
n	6	2	4	0.00	1	1	0.00	0.00	0.00	1	1	0.00	2
<msp23_6> In what year did you install the SCREW-IN MODULAR CI 2010</msp23_6>	FLs? 56.15	0.00	63.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.78
2011	24.60	0.00	27.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
2012	5.70 13.55	0.00 100.00	6.47 1.87	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	9.22
n	6	2	4	0.00	1	1		0.00	0.00	1	1	0.00	2
And in which month (or season) November	2.51	21.07	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
December	11.04	78.93	1.87	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
Fall Don't Know	61.86 24.60	0.00	70.21 27.92	0.00	0.00	0.00		0.00	0.00	0.00	0.00 100.00	0.00	100.00
n	6	2	4	0	1	1	0	0	0	1	1	0	2
<msp25_6> Did you receive a rebate for the SCREW-IN MODULAR C No</msp25_6>	FLs? 100.00	100.00	100.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	100.00
n	6	2	4	0	1	1		0	0	1	1	0	2

<msp26_6> What type of lighting equipment was removed and repla</msp26_6>	Ced when	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small (%)
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00 41.34	0.00 78.93	0.00 36.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 9.22
Compact Fluorescent, Screw-in Modular Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	56.15	0.00	63.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.78
Exit Signs, Compact Fluorescent Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter) Generic LED (SCREW BASE)	0.00 2.51	0.00 21.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew euqipment	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Other -Record Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
n	6	2	4	0	1	1	0	0	0	1	1	0	2
<msp27_6> Approximately how old was this lighting equipment that Less than 5 years old</msp27_6>	you remo 88.96	ved? 21.07	98.13	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
Don't Know	11.04	78.93	1.87	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
n	6	2	4	0	1	1	0	0	0	1	1	0	2
<msp28_6> How would you describe the condition of this removed of the properties of the condition of this removed of the condition of th</msp28_6>	38.14	100.00	29.79	0.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00
Fair condition or	5.70	0.00	6.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.22
Good condition	56.15 6	0.00	63.73 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.78
<msp29_6> Approximately what percentage of this removed lighting</msp29_6>	equimen		ken or no		prior to i	nstalling t		/-IN MOD					
0 20	56.15 2.51	0.00 21.07	63.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.78
30	24.60	0.00	27.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
100 n	16.74	78.93 2	8.35	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	9.22
<cfl1a> Where did you purchase the CFLs that were installed OUT:</cfl1a>		rogram?	[ACCEP		LES]	,	ا	U	v		- 1	U	2
Home Depot	00.45												
	86.45	0.00	98.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00
Costco	0.00	0.00	98.13 0.00 0.00	0.00 0.00 0.00	0.00	0.00 0.00	0.00 0.00 0.00	0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	100.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00
Costco Orchard Spply Hdwr ACE Hardware	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Costco Orchard Spply Hdwr ACE Hardware Lowe's	0.00 0.00 0.00 56.15	0.00 0.00 0.00 0.00	0.00 0.00 0.00 63.73	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 90.78
Costco Orchard Spply Howr ACE Hardware Lowe's SaweMart K-Mart	0.00 0.00 0.00 56.15 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 63.73 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 90.78 0.00 0.00
Costoo Orchard Spply Howr ACE Hardware Lowe's SaveMart K-Mart Sam's Club	0.00 0.00 0.00 56.15 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 63.73 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 90.78 0.00 0.00
Costco Orchard Spply Howr ACE Hardware Lowe's SaweMart K-Mart	0.00 0.00 0.00 56.15 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 63.73 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 90.78 0.00 0.00
Costoo Orchard Sphardware ACE Phardware Lowe's Saws ACE K-Mart K-Mart San's Club Smart & Final Yardbirds Hirn Cir FRY's Elect	0.00 0.00 56.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 63.73 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00
Costoo Orchard Spply Howr ACE Hardware Lowe's SaveMart K-Mart Sam's Club Smart & Final Yardbirds Hm CT FRY's Elect True Value	0.00 0.00 0.00 56.15 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 63.73 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Costoo Orchard Sphardware ACE Phardware Lowe's Saws ACE K-Mart K-Mart San's Club Smart & Final Yardbirds Hirn Cir FRY's Elect	0.00 0.00 0.00 56.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 13.55	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 63.73 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Costoc Orchard Spply Howr ACE Hardware Lowe's SaveMart K-Mart Sam's Club Smart & Final Yardbirds Hm Ctr FRY's Elect True Veate Contractor Installed them Other Refused	0.00 0.00 0.00 56.15 0.00	0.00 0.00	0.00 0.00 0.00 63.73 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Costoc Orchard Sply Howr ACE Hardware Lowe's SaveMart K-Mart Sam's Club Smart & Final Yardbirds Hm Ctr FRY's Elect True Value Contractor Installed	0.00 0.00 0.00 56.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 13.55	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 63.73 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Costoo Orchard Spply Howr ACE Phardware Lowe's SaweMart K-Mart K-Mart Sam's Club Smart & Final Yardbirdx Him Clir Ture Value Contractor insalled them Other Refused Don't Know CFL3A>Were all of these CFLs installed or were some put into stor	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 63.73 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Costoc Orchard Spply Howr ACE Hardware Lowe's SaveMart K-Mart K-Mart Sam's Club Smart & Final Yardbids Hm Ctr FR'vs Elot Trive Vatue Contractor installed them Other Refused Don't Know CFEL3A>Were all of these CFLs installed or were some put into stor All sitstalled	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 63.73 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Costoc Orchard Spply Howr ACE Hardware Lower's SaveMart K-Mart Sam's Club Smart & Final Yarobirds Hm Ctr FRY's Eloc True Vatue Contractor installed them Other Refused Don't Know Refused Some installed or were some put into a baseling Some installed, some in storage Some installed, some in storage Some installed, some in storage	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Costoc Orchard Spply Howr ACE Hardware Lowe's SaveMart K-Mart K-Mart Sam's Club Smart & Final Yardbrick Hm Ctr FRY's Elect True Contractor Installed dree Contractor Installed or were some put into stor All installed Some installed, some in storage <cfl3a>Were all of these CFLs installed or were some put into storage All installed Some installed, some in storage <cfl4> Considering all of the lighting changes we just discussed (pi</cfl4></cfl3a>	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Costoc Orchard Spply Howr ACE Hardware Lowe's SaweMart K-Mart Sam's Club Smart & Final Yardbrids Hm Ctr FRY's Elect True Value Contractor Installed them Other Refused Don't Know CFL3A-Were all of these CFLs installed or were some put into stor All installed Some installed, some in storage (CFL4> Considering all of the lighting changes we just discussed (pr	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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Costoo Orchard Spply Howr ACE Hardware Lowe's SaveMart K-Mart K-Mart Sam's Club Smart & Final Yardbidok Hm Ctr FTrys Elabe Contractor installed them Other Refused Don't Know CFL3A-Were all of these CFLs installed or were some put into stor some installed, some in storage Some installed, some in storage CFL4> Considering all of the lighting changes we just discussed (pr changes? Between 15 and 30 Percent Between 45 and 60 Percent Between 45 and 60 Percent Between 60 and 80 Percent Between 60 and 80 Percent	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 6 0.000 6 0.000 6 0.000 13.555 6 6 irchases of	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 63.73 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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Cestoo Orchard Sply Howr ACE Hardware Lowe's SaveMart AS Assert SaveMa	0.00 0.00 0.00 56.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 63.73 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Cesteb Orchard Spply Howr ACE Hardware Lower's SaveMart K-Mart K-Mart Sam's Club Smart & Final Yardbirds Hm Ctr FR's Eldt Contractor installed them Contractor installed them Contractor installed them Contractor installed them Refused Don't Know <	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Costoc Orchard Spply Howr ACE Hardware Lowe's SaveMart H-Mart Sam's Club Smart & Final Yardbirds Hm Ctr FRY's Eloct True Volta Contractor Installed them Other Refused Don't Know All Installed, Some installed, some in storage (CFL3A>Were all of these CFLs installed or were some put into storage) All Installed, Some installed, some in storage CFL4> Considering all of the lighting changes we just discussed (pichanges? Between 45 and 60 Percent Between 45 and 60 Percent Between 60 and 80 Percent Between 60 and 80 Percent Between 60 and 80 Percent Refused Don't Know Refused Refused Don't Know	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 90.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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Cesteb Orchard Spply Howr ACE Hardware Lower's SaveMoart K-Mart Samr's Club Smart & Final Yardbirds Hm Ctr FRR's Elect True Value Contractor installed tome Contractor installed tome Refused Don't Know Refused Contractor installed or were some put into stor Refused Contractor installed tome Contractor installed or being the story of the story	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
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Costoo Orchard Spply Howr ACE Hardware Lowe's SaveMart K-Mart Sam's Club Smart & Final Yardbrick Hm Ctr FRY's Elect True Contractor Installed Sam Installed Contractor Installed Game Refused Don't Know All Installed Some installed, some in storage Refused Some installed, some in storage Refused Some installed Some in Storage Changes? Between 45 and 60 Percent Between 45 and 60 Percent Between 45 and 60 Percent Refused Contractor Installed Some in Storage Refused Refused Changes? Record REASON PUT INTO STORAGE Refused Don't Know A SCFL5> Why were they put in storage? Record REASON PUT INTO STORAGE Refused Don't Know A SMSP2A_7> How many Hardwired CFL Fixtures did you purchase for SMSP2B_7> How many Hardwired CFL Fixtures did you purchase for	0.000 0.000		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Costoo Orchard Spply Howr ACE Hardware Lowels Saware Refused Samar & Final Yardbrides Hm Ctr FTR's Elect TTR's Elect Contractor installed them Other Refused Don't Know CFL3A>Were all of these CFLs installed or were some put into stor All installed Some installed, some in storage Some installed, some in storage Refused Don't Know CFL4> Considering all of the lighting changes we just discussed ple changes? Between 45 and 50 Percent Between 45 and 50 Percent Refused Don't Know CFL5> Why were they put in storage? Record REASON PUT INTO STORAGE Refused Don't Know CFL5> Why were they put in storage? Record REASON PUT INTO STORAGE Refused Don't Know CFL5> Why was they put in storage? Record REASON PUT INTO STORAGE Refused Don't Know All Stalled Don't Know Refused Don't Know CFL5> Why was they put in storage? Record REASON PUT INTO STORAGE Refused Don't Know All Stalled Don't Know Refused	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.000 0.000 0.000 100 0.000 17 100.000 0.000 7 7 100.000 7 7 0.000 7 7 0.000 0.000 7 7 0.000 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
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Costoo Orchard Spply Howr ACE Hardware Lower's SaveMeart R-Mart R-Mart Samris Club Smart & Final Yardbirds Hm Ctr FR'rs Elote Try Elote Contractor installed them Other Retused Don't Know Retused Don't Know Retused Contractor installed or were some put into store Retused Don't Know Retused Contractor installed or were some put into store Retused Don't Know Retused Some installed, some in storage? Retween 15 and 30 Percent Between 60 and 80 Percent Between 60 and 80 Percent Retused Don't Know Retused R	0.000		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

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	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<msp17_7> Why did you purchase this lighting without the financial. Too much paperwork</msp17_7>	assistanc 0.00	e availabl			orogram?	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval Needed equipment immediately (no time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended Equipment would not qualify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important enough Didn't know program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	2	1	1	0	0	1	0	0	0.00	0.00	0.00	0.00	0.00
<msp19_7> Was this measure specifically recommended by a Progr</msp19_7>	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp20_7> If you had not participated in the Program, how likely is</msp20_7>	it that you	ır organiz	ation wou	ld still ha	ve implen	nented thi	s measure	, using a	0 to 10 s		e 0 means	you Def	initely
Would Not have implemented this measure and 10 means you Defini 10 DEFINITELY WOULD HAVE	100.00	100.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
<msp23_7> In what year did you install the Hardwired CFL Fixtures?</msp23_7>		1	,	0	0	1	0	0		0	0	,	
2010	99.22 0.78	0.00 100.00		0.00	0.00	0.00 100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
And in which month (or season)	2	1	1	0	0	1	0	0	0	0	0	1	0
January Don't Know	0.78 99.22	100.00		0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp25_7>Did you receive a rebate for the Hardwired CFL Fixtures?</msp25_7>	2	1	1	0	0	1	0	0	0	0	0	1	0
No n	100.00	1	1	0.00	0	1	0.00	0.00	0.00	0.00	0.00	100.00	0.00
<msp26_7> What type of lighting equipment was removed and repla High Performance T8</msp26_7>	ced when	you insta	lled the H	lardwired 0.00	CFL Fixt	ures? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs) HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent Exit Signs, Compact Fluorescent	99.22	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE) Nothing removednew eugipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record Refused	99.22 0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Don't Know	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp27_7> Approximately how old was this lighting equipment that Less than 5 years old</msp27_7>	you remo			0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
More than 15 years old?	99.22	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
<msp28_7> How would you describe the condition of this removed on the programme of the programme of the programme.</msp28_7>	equipmen 100.00		100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
n	2	1	1	0	0	1	0	0	0	0	0.00	1	0.00
<msp29_7> Approximately what percentage of this removed lighting 10</msp29_7>	99.22	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
20 n	0.78 2	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp2a_9> How manyCompact Fluorescent Exit Signs did you pu</msp2a_9>	o.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp2b_9> How manyCOMPACT FLUORESCE did you purchase</msp2b_9>		other loca		0	0	0	0	0	0	0	0	0	0
n	0.00	0.00	0	0.00	0	0.00	0.00	0.00	0.00 <i>0</i>	0.00	0.00	0.00	0.00
<msp4_9> On a scale from 0 to 10, where Zero indicates you Strongl Program influenced my decision to install this high efficiency equipm</msp4_9>	ly Disagre nen	e and 10	indicates	you Stro	ngly Agre	e, please	rate the fo	llowing st	atement	. My expe	erience wit	th the 201	0-2012
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp5_9> Why do you give it this rating? Record REASON</msp5_9>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MSP17_9> Why did you purchase this lighting without the financial	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Too much paperwork Takes too long to get approval	0.00	0.00		0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (no time to Program had ended	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would not qualify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important enough Didn't know program was available	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp19_9> Was this measure specifically recommended by a Progr</msp19_9>		0 ility spons	ored Aud	0 lit, report	or progra		o cal special	o ist?	0	0	0	0	0
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp20_9> If you had not participated in the Program, how likely is Would Not have implemented this measure and 10 means you Definite.</msp20_9>		ir organiz	ation wou	ld still ha	ve implen	nented thi	s measure	, using a	0 to 10 s	cale wher	e 0 means	you Def	initely
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp23_9> In what year did you install the Compact Fluorescent Exit.</msp23_9>	it Signs?	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
And in which month (or season)	0.50	0		0	0	0	0	0	0	0	0	0	0.00
And in which month (or season)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp25_9> Did you receive a rebate for the Compact Fluorescent E</msp25_9>		?		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp26_9> What type of lighting equipment was removed and repla High Performance T8 T9 fluoreneed lighting (1) digesters by</msp26_9>	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs) HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Hadrescent Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew euqipment Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp27_9> Approximately how old was this lighting equipment that n</msp27_9>	0.00	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp28_9> How would you describe the condition of this removed e n</msp28_9>	quipment 0.00 0	9 0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp29_9> Approximately what percentage of the removed replaced.</msp29_9>	d lighting 0.00	equipmen 0.00	t was bro	ken or no	ot working 0.00	g prior to i	installing? 0.00	0.00	0.00	0.00		0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp2a_10> How manyLED Exit Signs did you purchase for this</msp2a_10>		0.00	0.00			0.00	0.00	0.00	0.00			0.00	
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp2b_10> How manyLED Exit Signs did you purchase for you</msp2b_10>	r other loc		- 1	-	-	-	-	-	-			-	-
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
n <msp4_10> On a scale from 0 to 10, where Zero indicates you Strong</msp4_10>	oly Disagr	0 ee and 10	indicates	0 VOU Str	0 naly Aar	0 ee nlease	rate the fo	O O	0 statemer	0 nt My ex	0 nerience w	0 ith the 20	10.
2012 Program influenced my decision to install this high efficiency ed	uipme												
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp5_10> Why do you give it this rating?</msp5_10>		Ü	<u></u>			Ü	-	-	٩	Ů	۰	<u> </u>	
Record REASON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp17_10> Why did you purchase this lighting without the financial</msp17_10>			le throug		program		3	J	U	U	, °	۷	
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (no time to Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would not qualify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important enough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't know program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp19_10> Was this measure specifically recommended by a Programment of the second /msp19_10>	0.00	0.00	o.00	dit, repor 0.00	t or progr 0.00	0.00	ical specia 0.00	0.00 0	0.00	0.00	0.00	0.00	0.00
			ation wo	-	-	-	-					- 1	-
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp23_10> In what year did you install the LED Exit Signs?</msp23_10>		U	٥	U	U	-	۷	J	٥	U		3	3
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
And in which month (or season)		0.61	0.67			0.5	0.0-	0.06	0.5			0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp25_10> Did you receive a rebate for the LED Exit Signs? . n</msp25_10>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
II.	U	U	U	U	U	b	J	,	U	U		,	J

### STATES 1979 197	ANSDAS 40. What time of liabilities equipment was removed and excl	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)		LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large (%)	LED Reflector(s) Retail - Small(%)
The flavoure final and the company of the company o	High Performance T8	0.00	0.00	0.00	0.00	0.00								
Tell Flavor of Decision Comparison Com														
Compart Functions Stormer Information 100 20	T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Information 100 20														
Ext Syst. Company Leaves of 100 20 20 20 20 20 20 20 20 20 20 20 20 2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Extract Library 100														
Part	Exit Signs, LED	0.00	0.00	0.00		0.00	0.00	0.00	0.00		0.00			0.00
Exertice States Color Co														
Lighting Corrells, Time Cook		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Cooperang Server Gib 100 000			0.00											
Lighting Centers, Precode 0.00 0.	Lighting Controls, Occupancy Sensor		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Color Colo														
Selection Sele	Other													
Committee Comm														
Nothing processes and exceptional Color			0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00	0.00
Comparison Com		0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00	
Control Cont	Other -Record											0.00		
### STATE 19 19 19 19 19 19 19 1			0.00		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Company Comp	n	0	0	0			0	0						
	n	0.00	0.00											
			0.00	0.00										
And in which month (or seasons) O		0.00	0.00	0.00	0.00	0.00	0.00	0.00						
And in which month (or season)														
		0	0	0	0	0	0	0	0	0	0	0	0	0
### State 1-9- What type of lighting equipment was removed and replaced when you invalided the Help Performance TS 0.00 0.														
Migh Performance 18					0	0	0	0	0	0	0	0	0	- 0
T19 Enters (15 m April Final Propriet T19 Enters (15 m April T1	High Performance T8	0.00	0.00	0.00										
T12 Fibrures (1.5m. dameter bubb)														
Compact Fluorescent, Series-in Modular 0.00 0														
Incandiscent 0.00														
Generic LED (SCREW BASE)														
Exispin. LED 0.00 0														
Halogen 1,000 0,0														
Electronic Ballast 0.00														
Managenetic Balliast														
Lighting Controls, Occupancy Sensor	Magnetic Ballast													
Lighting Controls, Bypass/Delay Timers														
Other	Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fall/hick Tubes														
T5 Fibutuse (5/8in diameter) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew euglipment 0.00 0														
Refused		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know Don														
MSP27_11> Approximately how old was this lighting equipment that you removed?			0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SMSP28_11> How would you describe the condition of this removed equipment	<msp27_11> Approximately how old was this lighting equipment that</msp27_11>	0.00	oved? 0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SMSP28_11> Approximately what percentage of the removed replaced lighting equipment was broken or not working prior to installing	<msp28_11> How would you describe the condition of this removed</msp28_11>	equipmer	nt?									0.00	0.00	
MSP2A_12> How manyREFLECTORSdid you purchase for this facility?			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MSP2B_12> How manyREFLECTORS did you purchase for your other locations? September MSP2B_12> How manyREFLECTORS did you purchase for your other locations? September MSP2B_12> How manyREFLECTORS did you purchase for your other locations? September MSP2B_12> How manyREFLECTORS did you purchase for your other locations? September Septembe														
CAMSP4_12> On a scale from 0 to 10, where Zero indicates you Strongly Usingsree and 10 indicates you Strongly Agree, please rate the following statement. My experience with the 2010-2012 Program influenced my decision to install this high efficiency equipmes		or other lo	0 cations?	0	0	0	0	0	0	0	0	0	0	0
2012 Program influenced my decision to install this high efficiency oculome		0	0	0	0	0	0	0	0	0	0	0	0	0
Second REASON 0.00	2012 Program influenced my decision to install this high efficiency ed	uipme 0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Record REASON 0.00		0	0	0	0	0	0	0	0	0	0	0	0	0
Don't Know 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Record REASON													

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
MSP17_12> Why did you purchase this lighting without the financial Too much paperwork	0.00	0.00	0.00	0.00	program 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval Needed equipment immediately (no time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended Equipment would not qualify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important enough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't know program was available No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp19_12> Was this measure specifically recommended by a Prog</msp19_12>	ram or Ut	tility spon	sored Au	dit, repor	t or progr	am techni	cal specia	list?					
·	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp20_12> If you had not participated in the Program, how likely is Would Not have implemented this measure and 10 means you Definit</msp20_12>		ur organi	zation wo	uld still h	ave imple	mented th	nis measu	re, using a	0 to 10	scale who	ere 0 mear	is you De	finitely
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp23_12> In what year did you install the Reflectors?</msp23_12>													
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
And in which month (or season)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MSP25 12> Did you receive a rebate for the Reflectors?	0	0	0	0	0	0	0	0	0	0	0	0	C
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp26_12> What type of lighting equipment was removed and replacement.</msp26_12>					0 's?	0	0	0	0	0	0	0	(
High Performance T8 T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Compact Fluorescent, Screw-in Modular Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Exit Signs, Compact Fluorescent Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Halogen Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Magnetic Ballast Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Lighting Controls, Photocell Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Generic LED (SCREW BASE) Nothing removednew eugipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n MSP27_12> Approximately how old was this lighting equipment that	vou rem	oved?	0	0	0	0	0	0	0	0	0	0	C
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp28_12> How would you describe the condition of this removed</msp28_12>	equipmer	nt?											
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp29_12> Approximately what percentage of the removed replace</msp29_12>	ed lighting 0.00	equipme 0.00		oken or 0.00	not workii 0.00	ng prior to 0.00	installing 0.00	0.00	0.00	0.00	0.00	0.00	0.0
n <msp23_13> In what year did you install the ELECTRONIC BALLAST</msp23_13>	0	0	0	0	0	0	0	0	0	0	0	0	C
+	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
And in which month (or season)	,			0				0					
6 n	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
<msp26_13>What type of lighting equipment was removed and repla High Performance T8</msp26_13>	ced wher	you insta	alled the E	lectronic 0.00	Ballast?	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
T10 fluorescent fixtures T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
HID (High Intensity Discharge) Fixtures- Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Incandescent Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Exit Signs, Compact Fluorescent Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Halogen Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Electronic Ballast	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.0
Magnetic Ballast Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Nothing removednew eugipment													
Nothing removednew eucjipment Other -Record Refused Don't Know	0.00 0.00 0.00	0.00 0.00 0.00	0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00	0.0

		ED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	-ED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<msp27_13> Approximately how old was this lighting equipment tha</msp27_13>	you rem	_	R E	9 6	R R	P & C	Re LE		₹ 5	H & K			
Between 5 and 10 years old n	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
<msp28_13>How would you describe the condition of this removed en In Poor condition</msp28_13>	quipmen 100.00	t? 0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
n <msp29_13> Approximately what percentage of this removed lightin</msp29_13>	1 g equipme	o ent was br	oken or	0 working p	rior to in:	o stalling the	e Electroni	c ballast	0	0	1	0	0
5 n	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
<msp23_14> In what year did you install the MAGNETIC BALLAST?</msp23_14>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n And in which month (or season)	0	0	0	0	0	0	0	0	0	0	0	0	0
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp26_14>What type of lighting equipment was removed and replational High Performance T8</msp26_14>	ced when	you insta	lled the I	MAGNETI 0.00	0.00	ST? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs) HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew eugipment Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp27_14> Approximately how old was this lighting equipment that</msp27_14>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp28_14> How would you describe the condition of this removed</msp28_14>	equipmer 0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
<msp29_14> Approximately what percentage of this removed lightin</msp29_14>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
n <msp2a_15> How manyTIME CLOCK LIGHT did you purchase for</msp2a_15>		0 ty?	U	0	U	0	U	0	0	0	0	0	0
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0	0.00	0.00	0.00	0.00
<msp2b_15> How manyTIME CLOCK LIGHT did you purchase fo</msp2b_15>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
	0 ly Disagr	ee and 10	indicates	o s you Stro	ongly Agr	ee, please	rate the fe	Ollowing s	0 statemen	nt. My ex	perience w	0 ith the 20	0 10 -
2012 Program influenced my decision to install this high efficiency ed	uipme 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n SP5_15> Why do you give it this rating?	0	0	0	0	0	0	0	0	0	0	0	0	0
Record REASON Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp17_15> Why did you purchase this lighting without the financial</msp17_15>	assistan	ce availabl	le throug	h a utility	program	?							
Too much paperwork Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Needed equipment immediately (no time to Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would not qualify Rebate wasn't important enough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't know program was available No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp19_15> Was this measure specifically recommended by a Prog</msp19_15>	ram or Ut		ored Aud	-					0.00	0.00		0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp20_15> If you had not participated in the Program, how likely is Would Not have implemented this measure and 10 means you Definit</msp20_15>	ely												
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp23_15> In what year did you install the Time Clock Lighting Cor</msp23_15>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n And in which month (or season)	0	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp25_15> Did you receive a rebate for the Time Clock Lighting Co.</msp25_15>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n n	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

		_		•	, t					~ #			0.0
	ALL.	_ED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%	LED Lamp(s) Restaurant - Fas Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	_ED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%	LED Reflector(s) Restaurant - Fas Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s)	LED Reflector(s)
<msp26_15> What type of lighting equipment was removed and repl</msp26_15>	aced whe	n you inst	alled the	Time Clo	ck Lightin	g Control	s?						
High Performance T8 T8 fluorescent fixtures (1in, diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures- Compact Fluorescent. Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter) Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew euqipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp27_15> Approximately how old was this lighting equipment that</msp27_15>		oved?	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp28_15> How would you describe the condition of this removed</msp28_15>													
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp29_15> Approximately what percentage of the removed replace</msp29_15>	ed lighting								J				-
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp2a_16> How many OCCUPANCY SENSOR LIGHTING CONTROL</msp2a_16>	LS did vo	0 ou purchas	e for this	facility?	0	0	0	0	0	0	U	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp2b_16>How many OCCUPANCY SENSOR LIGHTING CONTROL</msp2b_16>	0 S did vo	0	0 for you	other lo	cations?	0	0	0	0	0	0	0	0
	0.00	0.00	e for you 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp4_16> On a scale from 0 to 10, where Zero indicates you Strong 2012 Program influenced my decision to install this high efficiency ed</msp4_16>		ree and 10	indicate	s you Stro	ongly Agn	ee, please	rate the fo	ollowing s	tatemen	it. My ex	perience w	ith the 20	10-
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<a href="mailto: MSP5_16>Why do you give it this rating? Record REASON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp17_16>Why did you purchase this lighting without the financial</msp17_16>													
Too much paperwork Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (no time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would not qualify Rebate wasn't important enough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Didn't know program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MSP19 16> Was this measure specifically recommended by a Programment	ram or U	0 tility spon	o sored Au	0 dit. report	or progr	0 am techni	cal special	0 list?	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp20_16> If you had not participated in the Program, how likely is</msp20_16>	0	0	0	0	0 ave imple	0	0	0	0 to 10	0 coale wh	O moor	0	0 finitoly
<msp20_16> If you had not participated in the Program, how likely is Would Not have implemented this measure and 10 means you Defini</msp20_16>		ur organi	LAUON WO	ulu stili h	ave imple	mentea ti	ns measur	e, using a	01010	SCAIG WIT	ere o mear	is you De	initely
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp23_16> In what year did you install the OCCUPANCY SENSOR</msp23_16>		CONTRO	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
And in which month (or season)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp25_16> Did you receive a rebate for the OCCUPANCY SENSOR</msp25_16>								0.00	0.00			0.00	6.07
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
·													

MSP26_16-What type of lighting equipment was removed and replaced when you installed the OCCUPANCY SENSOR LIGHTING CONTROLS? High Performance T8	LED Reflector(s) Retail - Large(%	LED Reflector(s) Retail - Small(%)
T8 fluorescent fixtures (1in. diameter b 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
HID (High Intensity Discharge) Flatures 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Compact Fluorescent, Screw-in Modular 0.00 0.	0.00	0.00
Compact Fluorescent, Hardwire 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
	0.00	0.00
	0.00	0.00
Exit Signs, Compact Fluorescent 0.00	0.00	0.00
Halogen 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Install Reflectors 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Electronic Ballast 0.00	0.00	0.00
Lighting Controls, Time Clock 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Lighting Controls, Occupancy Sensor 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Lighting Controls, Bypass/Delay Timers 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Lighting Controls, Photocell 0.00	0.00	0.00
Fal/Thick Jubes 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Skinny/Thin Tubes 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
T5 Fixtures (5/8in. diameter) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Generic LED (SCREW BASE) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Other-Record 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Refused 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	0.00
Don't Know 0.00 0	0.00	0.00
<msp27 16=""> Approximately how old was this lighting equipment that you removed?</msp27>		
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00	0.00
	0	0
<msp28_16>How would you describe the condition of this removed equipment? 0.00 /ul></msp28_16>	0.00	0.00
n 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	0.00
cMSP29_16> Approximately what percentage of this removed lighting equiment was broken or not working prior to installing the OCCUPANCY SENSOR LIGHTING CONTR	OLS?	0.00
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00	0.00
<msp2a_17> How manyBYPASS/DELAY TIM did you purchase for this facility?</msp2a_17>		
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00	0.00
n 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0
CMSZB_1/> How manyBTPASS/DELAY TIM did you purchase for your other locations? 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.00
n 0 0 0 0 0 0 0 0 0 0	0	0
<msp4_17> On a scale from 0 to 10, where Zero indicates you Strongly Disagree and 10 indicates you Strongly Agree, please rate the following statement. My experience values.</msp4_17>	vith the 20	010-
2012 Program influenced my decision to install this high efficiency equipme	0.00	
		0.00
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00	0.00
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		0
0.00 0.00	0.00	0.00
0.00 0.00	0.00 0.00	0.00
- 0.00 0.0	0.00	0.00
Company Comp	0.00 0.00 0.00 0.00	0.00 0.00 0.00
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0	0.00 0.00 0.00 0.00
0.00 0.00	0.00 0.00 0.00 0 0	0.00 0.00 0.00 0.00 0.00
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0 0 0 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00
Note	0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0	0.000 0.000 0.000 0.000 0.000 0.000 0.000
. 000 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
Needed equipment immediately not mete 1 No No No No No No No	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
. 0.00 0.00	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
Columbia 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
. 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00
Columb	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00
	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00
Columb C	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
Neede equipment wind lately to list the stating Neede equipment important enough Neede equipment wind roughly Neede wasn't important enough Neede wa	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000
Companies Comp	0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.000 0.000
Company Comp	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000
Columbia 0.00	0.000 0.000	
New York 0.00 0.	0 00000 00000 00000 00000 00000 00000 0000	
Companies Comp	0.00 0.00	0.000 0.000

-MSP26_17> What type of lighting equipment was removed and repl	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	ng Cont 0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew eugipment Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp27_17> Approximately how old was this lighting equipment tha</msp27_17>	t vou rem		U	U	U	U	U U	0	U	U	- 0	- 0	
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n MSP28_17> How would you describe the condition of this removed	0	0	0	0	0	0	0	0	0	0	0	0	0
MSP26_172 How would you describe the condition of this removed.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp29_17> Approximately what percentage of the removed replace</msp29_17>	o.00	g equipme 0.00	ont was br	0.00	not workii 0.00	ng prior to 0.00	installing 0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	- 0
<msp2a_18> How many Photocell Lighting Controls did you purchas</msp2a_18>	e for this	facility?	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp2b_18> How many Photocell Lighting Controls did you purcha</msp2b_18>	se for you 0.00	ur other lo	cations? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n .	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp4_18> On a scale from 0 to 10, where Zero indicates you Strong</msp4_18>		ree and 10	indicates	you Stro	ongly Agr	ee, please	rate the f	ollowing s	statemer	nt. My exp	erience w	ith the 20	10-
2012 Program influenced my decision to install this high efficiency ed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	- 0
<msp5_18> Why do you give it this rating? Record REASON</msp5_18>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp17_18> Why did you purchase this lighting without the financia</msp17_18>	assistan	-	le throug				· ·	٥	U	v	· ·	٧	
Too much paperwork	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval Needed equipment immediately (no time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would not qualify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important enough Didn't know program was available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp19_18> Was this measure specifically recommended by a Prog</msp19_18>	7am or U	tility spon 0.00	sored Aud 0.00	lit, report 0.00	or progr	am techni 0.00	cal specia 0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp20_18> If you had not participated in the Program, how likely is</msp20_18>		ur organi	zation wo	uld still h	ave imple	mented ti	nis measuı	re, using a	0 to 10	scale whe	re 0 mean	s you De	finitely
Would Not have implemented this measure and 10 means you Defini	t ely 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp23_18> In what year did you install the Photocell Lighting Contr</msp23_18>	ols? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
And in which month (or season)			2.5.5			0.77			0.00			0.00	
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp25_18> Did you receive a rebate for the Photocell Lighting Con</msp25_18>													
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

< MSP26_18 What type of lighting equipment was removed and replacement.	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	0 L	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew eugipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other -Record Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp27_18> Approximately how old was this lighting equipment that n</msp27_18>	0.00 0	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp28_18> How would you describe the condition of this removed</msp28_18>	0.00	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp29_18> Approximately what percentage of the removed replace.</msp29_18>								0.00	0.00	0.00		0.00	0.00
n <msp23_19> In what year did you install the FLUORESCENT FIXTURE.</msp23_19>	0 RES?	0	0	0	0	0	0	0	0	0	0	0	0
+	97.84 2.16	0.00	97.84 2.16	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
n	2.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	1
And in which month (or season)	0.10		0.10	2.22		0.00				100.00		0.00	
11 15	2.16 97.84	0.00	2.16 97.84	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
n	2	0	2	0	0	0	0	0	0				- 4
			- 4						U	1	0	0	,
<msp26_19> What type of lighting equipment was removed and repl</msp26_19>	aced whe	n you inst	alled the	FLUORES	CENT FI	XTURES?	0.00						0.00
	0.00	n you inst 0.00 0.00	0.00	0.00 0.00	0.00	XTURES? 0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp26_19> What type of lighting equipment was removed and repl High Performance T8 T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures</msp26_19>	0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00	0.00 0.00 0.00	0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00
<msp26_19> What type of lighting equipment was removed and rep High Performance 18 T8 fluorescent fixtures (1n, diameter b T10 fluorescent fixtures T12 Flutures (1.5n, diameter bulbs)</msp26_19>	0.00 0.00 0.00 97.84	0.00 0.00 0.00 0.00	0.00 0.00 0.00 97.84	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 100.00
<msp26_19> What type of lighting equipment was removed and rep. High Performance T8 T8 fluorescent fixtures (11, diameter b T10 fluorescent fixtures T12 Fixtures (1.5n, diameter bulbs) HID (High Intensity Discharge) Fixtures- Compact Fluorescent, Screwin Modular</msp26_19>	0.00 0.00 0.00 97.84 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 97.84 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 100.00 0.00 0.00
<msp26_19> What type of lighting equipment was removed and repling Performance 18 Tell fluorescent flutures (in, diameter b T10 fluorescent flutures). T10 fluorescent flutures (15m, diameter builts) T12 Flutures (15m, diameter builts) HID (High Intensity Discharge) Flutures-Compact Fluorescent, Screw-In Modular Compact Fluorescent, Hardwire</msp26_19>	0.00 0.00 0.00 97.84 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 97.84 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 100.00 0.00 0.00
<msp26_19> What type of lighting equipment was removed and rep. High Performance 18 T8 fluorescent fixtures (1r., dameter b T10ucrescent fixtures) T12 Fixtures (1.5 in. dameter bulbs) HID (High Intensity Discharge) Fixtures— Compact Fluorescent, Screw'in Modular Compact Fluorescent, Hardwire Longdescent fluorescent, Screw and Screw fluorescent fixtures.</msp26_19>	0.00 0.00 0.00 97.84 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 97.84 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 100.00 0.00 0.00
<msp26_19> What type of lighting equipment was removed and repl High Performance T8 T8 fluorescent flutures (1.in. diameter b T10 fluorescent flutures) T12 Fixtures (1.5in. diameter bulbs) HID (High Intensity Discharge) Fixtures-Compact Fluorescent, Screw-in Modular Compact Fluorescent, Screw-in Modular Compact Fluorescent, Hardwire Incandescent Generic LED (SCREW BASE) Ext Signs, Compact Fluorescent</msp26_19>	0.00 0.00 97.84 0.00 0.00 0.00 0.00 0.00	n you inst 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 97.84 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	XTURES? 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.00
<msp26_19> What type of lighting equipment was removed and repiting in the programmen of the progra</msp26_19>	0.00 0.00 97.84 0.00 0.00 0.00 0.00 0.00	n you inst 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 97.84 0.00 0.00 0.00 0.00 0.00 0.00 0.00	FLUORES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	XTURES? 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
<msp26_19> What type of lighting equipment was removed and repl High Performance T8 T8 fluorescent flutures (1.in. diameter b T10 fluorescent flutures) T12 Fixtures (1.5in. diameter bulbs) HID (High Intensity Discharge) Fixtures-Compact Fluorescent, Screw-in Modular Compact Fluorescent, Screw-in Modular Compact Fluorescent, Hardwire Incandescent Generic LED (SCREW BASE) Ext Signs, Compact Fluorescent</msp26_19>	0.00 0.00 97.84 0.00 0.00 0.00 0.00 0.00	n you inst 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 97.84 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	XTURES? 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.00
<msp26_19> What type of lighting equipment was removed and replining programmen and the programmen and th</msp26_19>	0.000 0.000 97.84 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	n you inst 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 97.84 0.00 0.00 0.00 0.00 0.00 0.00 0.00	FLUORES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	XTURES? 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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KMSP26_19> What type of lighting equipment was removed and rep. Tight Performance 18 Tight P	0.000000000000000000000000000000000000	n you inst 0.000 0	0.000 0.000	FLUORES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.000 0.0000 0.0000 0.00	XTURES? 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.0000 0.0000 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00
<msp26_19> What type of lighting equipment was removed and repitally provided to the control of the control</msp26_19>	0.000 0.000	n you inst	0.00 0.00	FLUORES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.000 0.000	XTURES** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.000 0.0000 0.0000 0.0000 0.0000 0.	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<msp26_19> What type of lighting equipment was removed and rep. High Performance 18 T8 fluorescent fixtures (11 diameter b T10 fluorescent fixtures (12 diameter b T12 Fixtures (1.5n. diameter bulbs) HID (High Intensity Discharge) Fixtures- Compact Fluorescent, Server in Modular Compact Fluorescent, Hardwire Incandescent Generic LED (SCREW BASE) Exit Signs, Compact Fluorescent Exit Signs, Compact Fluorescent Halogen Halogen Install Reflectors Electronic Ballast Lighting Controls, Time Clock Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor Lighting Controls, Delays Yimers Lighting Controls, Photocel Other Fall Thick Tubes Sknny/Thin Tubes T5 Fibrures (Sfin diameter) Nothing removednew euppment Other -Record Refused Don't Rrow (MSP27_13> Approximately how old was this lighting equipment than Less than 5 years old Between 5 and 10 years old SMSP28_19> How would you describe the condition of this removed</msp26_19>	0.000 0.000	n you inst	0.00 0.00	FLUORES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.000 0.000	XTURES* 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.000 0.000	0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<msp26_19> What type of lighting equipment was removed and rep. High Performance 18 T8 fluorescent fixtures (11. diameter b T10 fluorescent fixtures) (11. diameter b T10 fluorescent fixtures) T12 Fluorescent fixtures (15. diameter bulbs) HID (High Intensity Discharge) Flutures-Compact Fluorescent, Screwin Modular Compact Fluorescent, Hardwire learned fluorescent, Hardwire learned fluorescent, Hardwire learned fluorescent screwing fluorescent screwing fluorescent screwing fluorescent screwing fluorescent fluorescen</msp26_19>	0.000 0.000	you install	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	FLUORES 0.000 0.00	0.000 0.000	XTURES** 0.00* 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.000 0.0000 0.0000 0.0000 0.0000 0.	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<msp26_19> What type of lighting equipment was removed and repited high Performance 18 and 18 in the Performance 18 in the Perform</msp26_19>	0.000 0.000	n you inst	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	FLUORES 0.000 0.00	0.000 0.000	XTURES** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.000 0.000	0.000 0.000	0.00 0.00	0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<msp26_19> What type of lighting equipment was removed and rep. High Performance 18 T6 fluorescent fixtures (11, diameter b T10 fluorescent fixtures) (11, diameter b T10 fluorescent fixtures) T12 Fixtures (1.5n. diameter bulbs) HID (High Intensity Discharge) Fixtures—Compact Fluorescent, Serverin Modular Compact Fluorescent, Hardwire learned for lineardscent Generic LED (SCREW BASE). Ext Signs, LED Ext Signs, Compact Fluorescent Ext Signs, LED Ext Signs, Compact Fluorescent Ext Signs, LED Habegen Habegen Install Reflectors Electronic Ballast Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor Lighting Controls, Occupancy Sensor Lighting Controls, Depass/Delay Timers Lighting Controls, Spass/Delay Timers Lighting Controls, Spass/Delay Timers SkinnyThin Tubes SkinnyThin Tubes T5 Fotures (Si8n. diameter) Nothing removednew eugipment Other -Record Refused Don't Know Approximately how old was this lighting equipment than Spass old Less than 5 years old Between 5 and 10 years old Extense 1 years old Refused 2010 2012 <msp28_13> How would you describe the condition of this removed lightin O (MSP29_19> Approximately what percentage of this removed lightin</msp28_13></msp26_19>	0.000 0.000	you install	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	FLUORES 0.000 0.00	0.000 0.000	XTURES** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
KMSP26_19> What type of lighting equipment was removed and repited to the control of the control	0.000 0.000	you install	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	FUORES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.000 0.000	XTURES** 0.000 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<msp26_19> What type of lighting equipment was removed and rep High Performance T8 T8 fluorescent flutures (In, diameter b T10 fluorescent flutures). T10 fluorescent flutures (In, diameter b T10 fluorescent flutures). T12 Fixtures (1.5in, diameter bulbs) HID (High Intensity Discharge) Fixtures-Compact Fluorescent, Server in Modular Compact Fluorescent, Hardwire Incandescent Compact Fluorescent. Generic LED (SCREW BASE). Ext Signs, Compact Fluorescent. Ext Signs, LED Halogeen Halogeen Install Reflectors Electronic Ballast Lighting Controls, Time Clock Lighting Controls, Decupancy Sensor John FatThick Tubes T5 Fotures (58in, diameter) Nothing removednew equipment Other -Record Refused Don't Know On't Know A MSP27_19> Approximately how old was this lighting equipment that Less than 5 years old Between 5 and 10 years old Between 5 and 10 years old Sensor SMSP28_19> How would you describe the condition of this removed 4MSP29_19> Approximately what percentage of this removed lighting «MSP29_19> Approximately what percentage of this removed lighting «MSP29_19> Approximately what percentage of this removed lighting SMSP23_20> In what year did you install the Fat or Thicker FLUORE</msp26_19>	0.000 0.000	n you hat 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	FUORES 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.000 0.000	XTURES** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.000 0.000	0.000 0.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

	ALL	ED Lamp(s)(%)	LED Reflector(s)(%)	.ED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	.ED Reflector(s) Restaurant - Fast Good(%)	ED Reflector(s) Restaurant - Sit	LED Reflector(s)	LED Reflector(s) Retail - Small(%)
<msp26_20> What type of lighting equipment was removed and repl</msp26_20>			alled the					2 ES2	3 6	78.5	١٥٨٥	2 %	2 %
High Performance T8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures T12 Fixtures (1.5in, diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Dypassi Belay Filters Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes	60.59	60.59	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew euqipment	39.41	39.41	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	2	2	0.00	1	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00
<msp27_20> Approximately how old was this lighting equipment that</msp27_20>													
Don't Know	100.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp28_20>How would you describe the condition of this removed</msp28_20>	eauipmen	t?		· ·		-	,		٠				-
In Poor condition	100.00		0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	1	1	0	1	0	0	0	0	0	0	0	0	0
<msp29 20=""> Approximately what percentage of this removed lighting</msp29>	a eauime	nt was bro	oken or n	ot workin	a prior to	installing	the Fat or	Thicker F	LUORES	SCENT F	XTURES?		
0	100.00		0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	1	1	0	1	0	0	0	0	0	0	0	0	0
<msp2a_21> How many SKINNY or THIN FLUORESCENT FIXTURES</msp2a_21>	4.60	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
25	4.28	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
9999	91.12	0.00	95.20	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
n <msp2b_21> How many SKINNY or THIN FLUORESCENT FIXTURES</msp2b_21>	4	1	3	0	0	0	0	1	1	1	0	0	1
<msp2b_21> How many SKINNY OF THIN FLUORESCENT FIXTURES</msp2b_21>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp4_21> On a scale from 0 to 10, where Zero indicates you Stronger and the scale of the sca</msp4_21>		ree and 10	indicate	s you Stro	ongly Agr	ee, please	rate the f	ollowing	tatemen	it. My ex	perience w	ith the 20	10-
2012 Program influenced my decision to install this high efficiency en	91.12	0.00	95.20	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
Zero Strongly disagree	8.88	100.00	4.80	0.00	0.00	0.00	0.00	100.00	0.00	100.00	0.00	0.00	0.00
n	4	1	3	0	0	0	0	1	1	1	0	0	1
<msp5_21>Why do you give it this rating? Record REASON</msp5_21>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp17_21>Why did you purchase this lighting without the financial Too much paperwork</msp17_21>	0.00	0.00	e through 0.00	0.00	program1 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Takes too long to get approval	0.00	0.00	0.00					0.00	0.00	0.00			
Takes too long to get approval			0.00	0.00	0.00	0.00	0.00				0.00	0.00	0.00
Needed equipment immediately (no time to	85.70	0.00	89.54	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
Needed equipment immediately (no time to Program had ended	0.00	0.00	89.54 0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
Needed equipment immediately (no time to			89.54	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available	0.00 0.00 0.00 14.30	0.00 0.00 0.00 100.00	89.54 0.00 0.00 0.00 10.46	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 100.00	0.00 0.00 0.00 0.00 100.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program available	0.00 0.00 0.00 14.30 0.00	0.00 0.00 0.00 100.00 0.00	89.54 0.00 0.00 0.00 10.46 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 100.00 0.00	0.00 0.00 0.00 0.00 100.00	100.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	100.00 0.00 0.00 0.00 0.00 0.00
Needed equipment immediately (no time to Program had ended Equipment veud not qualify Rebate wasn't important early Didn't know program was available Didn't know program available No program available Other States of the	0.00 0.00 0.00 14.30 0.00	0.00 0.00 0.00 100.00 0.00	89.54 0.00 0.00 0.00 10.46 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 100.00 0.00	0.00 0.00 0.00 0.00 100.00 0.00	100.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	100.00 0.00 0.00 0.00 0.00 0.00
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program available	0.00 0.00 0.00 14.30 0.00	0.00 0.00 0.00 100.00 0.00	89.54 0.00 0.00 0.00 10.46 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 100.00 0.00	0.00 0.00 0.00 0.00 100.00	100.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	100.00 0.00 0.00 0.00 0.00 0.00
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important an available Didn't know program available No program available Other Refused Other Refused Don't Know	0.00 0.00 14.30 0.00 0.00 0.00 0.00	0.00 0.00 100.00 0.00 0.00 0.00 0.00	89.54 0.00 0.00 10.46 0.00 0.00 0.00 0.00 3	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 1	0.00 0.00 0.00 0.00 100.00 0.00 0.00	100.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important an available Didn't know program available No program available Other Refused Other Refused Don't Know	0.00 0.00 14.30 0.00 0.00 0.00 0.00 4	0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 tility spons	89.54 0.00 0.00 0.00 10.46 0.00 0.00 0.00 0.00 3 sored Au	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 1	0.00 0.00 0.00 100.00 100.00 0.00 0.00 0.00 1	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important an available Didn't know program available No program available Other Refused Other Refused Don't Know	0.00 0.00 14.30 0.00 0.00 0.00 0.00	0.00 0.00 100.00 0.00 0.00 0.00 0.00	89.54 0.00 0.00 10.46 0.00 0.00 0.00 0.00 3	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 1	0.00 0.00 0.00 0.00 100.00 0.00 0.00 0.	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate was Program had ended Equipment would not qualify Rebate was Program as available Didn't known program available No program available Other Refused Other Refused Don't Known Program available Program available Other Refused Program available	0.00 0.00 14.30 0.00 0.00 0.00 4 ram or U	0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 tility spons	89.54 0.00 0.00 0.00 10.46 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 0.00 1 0.00 0.00	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 1	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was valiable No program available Office of Program available Office Office Refused Don't Know American State of Control of Co	0.000 0.000 14.300 0.000 0.000 0.000 0.000 4 ram or U 0.000 s it that yetel	0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 tility spon 0.00 0.00	89.54 0.00 0.00 0.00 10.46 0.00 0.00 0.00 0.00 3 sored Au 0.00 0 zation we	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 0.00 0.00 0.00 0.00 1	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
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Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important available No program available No program available Other Refused Don't Know Refused Don't Know Refused Don't Know No program available Other Refused Don't Know Refused Don't Know No Program No	0.000 0.000 14.300 0.000 0.000 0.000 0.000 4 ram or U 0.000 s it that yell 100.000 4 ESCENT 10.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	89.54 0.00 0.00 0.00 10.46 0.00 0.00 0.00 0.00 3 sored Au 0.00 0 zation w	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1 0.00 0.00 0.00 0.00 1 0.00	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important would not qualify Rebate wasn't important was evaluable Didn't know program available No program available Other Refused Don't Know Other Refused Don't Know On't Kno	0.000 0.000 14.300 0.000 0.000 0.000 0.000 4 ram or U 0.000 0.000 s it that yetel 100.000 4 ESCENT	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.	89.54 0.00 0.00 0.00 0.00 10.46 0.00 0.00 0.00 0.00 0.00 0.00 3 sored Au 0.00 0 zation w	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 0.00 0.00 0.00 1 0.00 0.00 1 0.00 0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program available Other Refused Don't Know Program available Don't	0.000 0.000 14.300 0.000 0.000 0.000 0.000 4 ram or U 0.000 s it that yell 100.000 4 ESCENT 10.01	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	89.54 0.00 0.00 0.00 10.46 0.00 0.00 0.00 0.00 3 sored Au 0.00 0 zation w	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1 0.00 0.00 0.00 0.00 1 0.00	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important would not qualify Rebate wasn't important was evaluable Didn't know program available No program available Other Refused Don't Know Other Refused Don't Know On't Kno	0.000 0.000 14.300 0.000 0.000 0.000 0.000 4 ram or U 0.000 s it that yell 100.000 4 ESCENT 10.01	0.00 0.00 100.00 100.00 0.00 0.00 0.00	89.54 0.00 0.00 0.00 10.46 0.00 0.00 0.00 0.00 3 sored Au 0.00 0 zation w	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 100.00	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program available No program available No program available Other Retused Don't Know American Program available Other Retused Don't Know American Program available Program available Don't Know American Program available Don't Know American Program Am	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 100.00 100.00 0.00 0.00 0.00	89.54 0.00 0.00 0.00 10.46 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 100.00 0.00 0.00 0.	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Needed equipment immediately (no time to Program had ended Equipment vould not qualify Rebate was priorgam variable Didn't know program available No program available No program available Other Refused Don't Know Don't K	0.000 0.000 14.330 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.00000 100.0000 100.0000 100.0000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.000000 100.0000000 100.00000000	0.00 0.00 100.00 0.00 0.00 0.00 0.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00	89.54 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 100.00	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program available No program available No program available Other Refused Don't Know no American Program available Program available No program available No program available Don't Know no Program available Don't Know no Program available Don't Know no Program No Pr	0.000 0.000 14.330 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.0000 100.00000 100.0000 100.0000 100.0000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.00000 100.000000 100.0000000 100.00000000	0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.	89.54 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 100.00 0.00 0.00 0.	0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program savailable No program savailable No program savailable Other Refused Don't Know Program savailable Other Refused Don't Know Program savailable Other Refused Don't Know Program savailable No program savailable No program savailable No program savailable Program	0.000 0.000 14.300 0.000 0.000 0.000 0.000 4 ram or U 0.000 4 rescent 100.00 4 ESCENT 10.01 89.99 4 94.89 5.11	0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.	89.54 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 100.00 0.00 0.00 0.00 0.00 0.00 0.00 1 100.00	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	100.00 0.00 0.00 0.00 0.00 0.00 0.00 0.

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<msp26_21> What type of lighting equipment was removed and repl High Performance T8</msp26_21>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
T12 Fixtures (1.5in. diameter bulbs) HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, LED Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fat/Thick Tubes Skinny/Thin Tubes	4.28 81.10	100.00	0.00 84.73	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew euqipment	4.60	0.00	4.80	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00
Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	10.01	0.00	10.46	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
<msp27_21> Approximately how old was this lighting equipment that</msp27_21>	t vou rem	oved?		-	-	-	-	-	-		-	-	
Less than 5 years old	85.01	0.00	89.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	100.00
Between 10 and 15 years old or	4.49	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00		0.00	0.00
Don't Know	10.50	0.00	10.99	0.00	0.00	0.00	0.00	0.00	100.00	0.00		0.00	0.00
<msp28_21> How would you describe the condition of this removed</msp28_21>	equipme		-	۲	•	Ü	۰		- 1	Ů		٩	
In Poor condition	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00		0.00	100.00
n	3	1	2	0	0	0	0	1	1	0	0	0	1
440000 04- 4							41				FIVELIBE	•	
<msp29_21> Approximately what percentage of this removed lightin 20</msp29_21>	4.49	100.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
80	85.01	0.00	89.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	100.00
100	10.50	0.00	10.99	0.00	0.00	0.00	0.00	0.00	100.00	0.00		0.00	0.00
n	3	1	2	0	0	0	0	1	1	0	0	0	1
<msp2a_22>How many T5 FIXTURES did you purchase for this facil</msp2a_22>	ity? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp2b_22> How many T5 FIXTURES did you purchase for your otl</msp2b_22>	ner locatio	ns?											
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MSP4_22> On a scale from 0 to 10, where Zero indicates you Strong	ulu Dianas	0	0		-	0	0	0	0		perience w		
2012 Program influenced my decision to install this high efficiency ed		ee and 10	indicate	s you Stro	ingly Agn	ee, piease	rate the i	ollowing	statemer	it. Wiy ex	perience w	itii tiie 20	10-
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp5_22>Why do you give it this rating? Record REASON</msp5_22>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Record REASON Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0		0	0
<msp17_22>Why did you purchase this lighting without the financial</msp17_22>					program1	?		0.00			0.07		
Too much paperwork Takes too long to get approval	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Needed equipment immediately (no time to	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Program had ended	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment would not qualify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rebate wasn't important enough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Didn't know program was available No program available	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No program available Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp19_22> Was this measure specifically recommended by a Prog</msp19_22>		ility spons	sored Au	lit, report	or progra	am techni	cal specia	llist?	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp20_22> If you had not participated in the Program, how likely is</msp20_22>	it that vo	ur organiz	ation wo		ave imple		nis measu						finitely
Would Not have implemented this measure and 10 means you Defini	tely												
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<pre> </pre> <msp23_22> In what year did you install the T5 FIXTURES?</msp23_22>	0	0	0	0	0	0	0	0	0	0	U	0	0
-mor 20_22 m what year did you mstall the 10 FIXTURES?	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
And in which month (or season)												,	4
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
<msp25_22> Did you receive a rebate for the T5 FIXTURES?</msp25_22>		, J	U		0	, ,	٦,	٧	J	0		٧.	-
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down (%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<msp26_22> What type of lighting equipment was removed and repl High Performance T8</msp26_22>	0.00	n you inst 0.00	alled the 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs) HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Incandescent	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Install Reflectors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electronic Ballast Magnetic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T5 Fixtures (5/8in. diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew eugipment Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp27_22> Approximately how old was this lighting equipment that n</msp27_22>	0.00 0.00	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp28_22> How would you describe the condition of this removed</msp28_22>	0.00	0.00 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp29_22> Approximately what percentage of this removed lighting.</msp29_22>	g equime 0.00	nt was bro	oken or n		g prior to	installing 0.00	0.00		0.00	0.00	0.00	0.00	0.00
	you purcl	0 hase for t 44.72	his facility	0 /? 44.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	0.47	55.28	0.00	55.28		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200	98.96	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
n	3	2	1	2	0	0	0	0	0	0	0	1	0
<msp2b_23>How many GENERIC SCREW BASED LED BULBS did y</msp2b_23>	0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0
<msp4_23> On a scale from 0 to 10, where Zero indicates you Stron 2012 Program influenced my decision to install this high efficiency en</msp4_23>	giy Disagr quipme	ee and 10	indicates	s you sure	nigiy Agr	ee, piease	rate the i	ollowing s	tatemer	it. wy exp	erierice w	itii tiie 20	10-
10 STRONGLY AGREE	98.96	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Zero Strongly disagree	1.04	100.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ANCOR 225 Miles de vess eine it this retire 2	3	2	1	2	0	0	0	0	0	0	0	- 1	0
<msp5_23>Why do you give it this rating? Record REASON</msp5_23>	100.00	0.00	100.00	0.00		0.00	0.00						
Refused	0.00	0.00	0.00	0.00	0.00			0.00	0.00	0.00	0.00	100.00	0.00
Don't Know	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
n		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
	1	0	1	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp17_23>Why did you purchase this lighting without the financial Too much paperwork</msp17_23>	assistand	0	1	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<msp17_23>Why did you purchase this lighting without the financial Too much paperwork Takes too long to get approval</msp17_23>	0.00	0.00 0.00	0.00 0.00	0.00 0.00 0 n a utility 0.00 0.00	0.00 0.00 0 program 0.00 0.00	0.00 0.00 0 0 0 0.00	0.00 0.00 0 0.00 0.00	0.00 0.00 0 0.00 0.00	0.00 0.00 0 0.00	0.00 0.00 0 0 0.00	0.00 0.00 0 0.00 0.00	0.00 0.00 1 0.00 0.00	0.00 0.00 0 0.00 0.00
<msp17_23>Why did you purchase this lighting without the financial Too much paperwork. Takes too long to get approval Needed equipment immediately no time to</msp17_23>	0.00 0.00 0.47	0.00 0.00 0.00 44.72	0.00 0.00 0.00	0.00 0.00 0 1 a utility 0.00 0.00 44.72	0.00 0.00 0 program' 0.00 0.00	0.00 0.00 0 0 0 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00	0.00 0.00 1 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00
<msp17_23>Why did you purchase this lighting without the financial Too much paperwise. Takes too long to get approval Needed equipment immediately (no time to Program had ended</msp17_23>	0.00 0.00 0.47 0.00	0.00 0.00 0.00 44.72 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0 n a utility 0.00 0.00 44.72 0.00	0.00 0.00 0 program 0.00 0.00 0.00	0.00 0.00 0 2 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00 0.00	0.00 0.00 1 0.00 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00 0.00
<msp17_23>Why did you purchase this lighting without the financial Too much paperwork. Takes too long to get approval Needed equipment immediately no time to</msp17_23>	0.00 0.00 0.47	0.00 0.00 0.00 44.72	0.00 0.00 0.00	0.00 0.00 0 1 a utility 0.00 0.00 44.72	0.00 0.00 0 program' 0.00 0.00	0.00 0.00 0 0 0 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00	0.00 0.00 1 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00
<msp17_23>Why did you purchase this lighting without the financial Too much peperwork. Takes too long to get approval Needed equipment immediately (no time to Program had ended Equipment voud not qualify Rebate wasn't important enough Didn't know program was available</msp17_23>	0.00 0.00 0.47 0.00 0.00 0.00 0.58	0.00 0.00 0.00 44.72 0.00 0.00 0.00 55.28	1 le through 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0 a utility 0.00 0.00 44.72 0.00 0.00 0.00 0.00 55.28	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 1 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<msp17_23>Why did you purchase this lighting without the financial Too much paperwork. Takes too long to get approval Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program available</msp17_23>	0.00 0.47 0.00 0.00 0.00 0.00 0.58 98.96	0.00 0.00 0.00 44.72 0.00 0.00 0.00 55.28	1 le through 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0 1 a utility 0.00 0.00 44.72 0.00 0.00 0.00 55.28	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 1 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
KMSP17_23>Why did you purchase this lighting without the financial Too much paperwine Takes too long to get approval Needed equipment immediately (no time to lead to the program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program available Other	0.00 0.00 0.47 0.00 0.00 0.00 0.58 98.96	0 ce availab 0.00 0.00 44.72 0.00 0.00 55.28 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0 a utility 0.00 0.00 44.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
<msp17_23>Why did you purchase this lighting without the financial Too much paperwork. Takes too long to get approval Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program available</msp17_23>	0.00 0.00 0.47 0.00 0.00 0.00 0.58 98.96 0.00	0.00 0.00 0.00 44.72 0.00 0.00 0.00 55.28	1 le through 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0 1 a utility 0.00 0.00 44.72 0.00 0.00 0.00 55.28	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 7 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
KMSP17_23>Why did you purchase this lighting without the financial Too much paperwork. Takes too long to get approval Needed equipment immediately, not lime to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program available Other Refused Don't Know	0.00 0.00 0.47 0.00 0.00 0.00 0.58 98.96 0.00 0.00 0.00	0 ce availab 0.000 0.000 44.72 0.000 0.00 55.28 0.000 0.000 0.000 0.000	1 le through 0.00 0.00 0.00 0.00 0.00 0.00 100.00 0	0.00 0.00 0 a utility 0.00 0.00 0.00 0.00 0.00 0.00 0.00 55.28 0.00 0.00 0.00 0.00 2	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
KMSP17_23>Why did you purchase this lighting without the financial Too much paperwise. Takes too long to get approval Needed equipment immediately (no time to long to get approval) Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program available Other Refused Other Refused Don't Know Don't Know Don't Know	0.00 0.00 0.47 0.00 0.00 0.58 98.96 0.00 0.00 0.00 3	0 ce availab 0.00 0.00 44.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	through 0.00 0.00 0.00 0.00 0.00 0.00 100.00 0.00 0.	0.00 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 7 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
KMSP17_23>Why did you purchase this lighting without the financial Too much paperwork. Takes too long to get approval Needed equipment immediately, not lime to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program available Other Refused Don't Know	0.00 0.47 0.00 0.00 0.00 0.58 98.96 0.00 0.00 0.00 3 ram or Ut	0 ce availab 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	1 le through 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00 1 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
KMSP17_23>Why did you purchase this lighting without the financial Too much paperwork. Too much paperwork. Takes too long to get approval. Needed equipment immediately (no time to Program had ended Equipment would not qualify. Rebate wasn't important enough. Didn't know program was available. No program available. No program available. Other Refused. Don't Know. Other Refused. Don't Know. AMSP19_23> Was this measure specifically recommended by a Program. KMSP20_23> If you had not participated in the Program, how likely is	0.00 0.00 0.47 0.00 0.00 0.00 0.00 0.58 98.96 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 ce availab 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	1 le through 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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KMSP17_23>Why did you purchase this lighting without the financial Too much paperwise. Takes too long to get approval Needed equipment immediately (no time to be program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program was available Other Refused Don't Know of Refused Don't Know no Refused Don't Know no Refused No program was the No program was been not not wish to be not not wish to be not	0.00 0.00 0.47 0.00 0.00 0.00 0.00 0.58 98.96 0.00 0.00 0.00 0.00 0.00 0.00 it that yo toly 98.96 1.04	0 20 availab 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	1 le through 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0 a utility 0.00 0.00 44.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 100.00 0.00 100.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<msp17_23>Why did you purchase this lighting without the financial Too much paperwork Takes too long to get approval Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wann't important enough Didn't know program was available No program available Other Refused Don't Know ——————————————————————————————————</msp17_23>	0.00 0.00 0.07 0.00 0.00 0.00 0.00 0.00	0 2 availab 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	100.00 100.00 0.00 0.00 0.00 0.00 100.00 0.00 100.00 0.00	0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
KMSP17_23>Why did you purchase this lighting without the financial Too much paperwork Takes too long to get approval Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program available No program available Other Refused Don't Know AMSP19_23> Was this measure specifically recommended by a Program so will be program available of the program	0.00 0.00 0.00 0.00 0.00 0.00 0.58 98.96 0.00 0.00 0.00 0.00 0.00 0.00 0.00 it that yo tely 98.96 1.04 3	0 e availab 0.000 0.000 44.72 0.0000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000	7 le through 0.000	0.00 0.00 0 a utility 0.00 44.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<msp17_23>Why did you purchase this lighting without the financial Too much paperwork Takes too long to get approval Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wann't important enough Didn't know program was available No program available Other Refused Don't Know ——————————————————————————————————</msp17_23>	0.00 0.00 0.07 0.00 0.00 0.00 0.00 0.00	0 2 availab 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	7 le through	0.00 0.00 0 a utility 0.00 0.00 44.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
KMSP17_23>Why did you purchase this lighting without the financial Too much paperwork Takes too long to get approval Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program wailable No program wailable Other Refused Don't know	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0 co availab 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	7 le through	0.00 0.00 0 a utility 0.00 0.00 44.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 1 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
<msp17_23>Why did you purchase this lighting without the financial Too much paperwork Too much paperwork Program and Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program was available No program was available Other Refused Don't know Don't Know Program was available Other Refused Don't Know Don't Know Program available Other Refused Don't Know Program available Other Refused Don't Know Program available Other Refused Don't Know Program Available Don't Row /msp17_23>	0.00 0.00 0.00 0.00 0.00 0.58 98.96 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 ce availab 0.000 0.000 44.72 0.000	fe through 0.00 0	0.00 0.00 0 a utility 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 7 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
CMSP17_23>Why did you purchase this lighting without the financial Too much paperwork Takes too ing to get approval Needed equipment immediately (no time to Program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program was available No program was available No program was available Other Refused Don't Know n CMSP19_23> Was this measure specifically recommended by a Program was available to the program was available of the program was av	0.00 0.07 0.07 0.00 0.00 0.00 0.00 0.00	0 o availab 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	fe through	0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
KMSP17_23>Why did you purchase this lighting without the financial Too much pserver with the financial Regulary and the financial Regulary and the financial Regulary and and ended Equipment would not qualify Rebate want important enough Didn't know program was available. No program available Other Refused Don't know program was available. Other Refused Don't know Program available of Don't know American State of	0.00 0.00 0.00 0.00 0.00 0.58 98.96 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0 co availab 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	fe through	0.00 0.00 0 a utility 0.00 0.00 44.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 7 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
KMSP17_23>Why did you purchase this lighting without the financial Too much paperwork Takes too long to get approval Needed equipment immediately (no time to be program had ended Equipment would not qualify Rebate wann't important enough Didn't know program was available No program available Other Refused Don't Know AMSP19_23> Was this measure specifically recommended by a Program available **CMSP19_23> If you had not participated in the Program, how likely is Would Not have implemented this measure and 10 means you Defini 4 **MSP23_23> In what year did you install the GENERIC SCREW BAS And in which month (or season) And in which month (or season)	0.00 0.07 0.07 0.00 0.00 0.00 0.00 0.00	0 ea availab 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	fe through	0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
CMSP17_23>Why did you purchase this lighting without the financial Too much paperwork Takes too ing to get approval Needed equipment immediately (no time to head of the program had ended Equipment would not qualify Rebate wasn't important enough Didn't know program was available No program was available No program was available Onth the program was available Program was available No program was available No program was available Onth Know Program was available Program was available Onth Know Program was available Onth World Not have implemented this measure and 10 means you Defining Volume Program, Inc. 10 DEFINITELY WOULD HAVE 10 DEF	0.00 0.07 0.07 0.00 0.00 0.00 0.00 0.00	0 ea availab 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	F 16 through 7 16 through 7 16 through 10.00 0.00	0.000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small (%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small (%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<msp26_23> What type of lighting equipment was removed and repl High Performance T8</msp26_23>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T8 fluorescent fixtures (1in. diameter b T10 fluorescent fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures- Compact Fluorescent, Screw-in Modular	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Hardwire Incandescent	0.00	0.00 55.28	0.00	0.00 55.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Exit Signs, Compact Fluorescent Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	98.96	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
Install Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor Lighting Controls, Bypass/Delay Timers	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in, diameter)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Generic LED (SCREW BASE)	0.47	44.72	0.00	44.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew euqipment Other -Record	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refused Don't Know	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <msp27_23> Approximately how old was this lighting equipment that</msp27_23>	3	2 oved?	1	2	0	0	0	0	0	0	0	1	0
Less than 5 years old	0.58	55.28	0.00	55.28			0.00	0.00	0.00	0.00	0.00	0.00	0.00
Between 5 and 10 years old Don't Know	98.96 0.47	0.00	100.00	0.00 44.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
n <msp28_23> How would you describe the condition of this removed</msp28_23>	equipme:	nt?	1	2	0	0	0	0	0	0	0	1	0
In Poor condition Good condition	0.47 99.53	44.72 55.28	0.00	44.72 55.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	3	2	1	2	0	0	0	0	0	0	0	1	0.00
<msp29_23> Approximately what percentage of this removed lightin 0</msp29_23>	ng equime 98.96	ont was bi	100.00	0.00	0.00	installing 0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00
1 100	0.58 0.47	55.28 44.72	0.00	55.28 44.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	3	2	1	2	0.00	0		0.00	0.00	0.00	0	1	0.00
<msp23_77> In what year did you install the OTHER FIXTURES? 2010</msp23_77>	35.84	31.55	36.34	0.00	46.81	78.33	0.00	0.00	0.00	48.70	21.79	37.79	63.81
2011 2012	0.03 2.81	0.32 8.23	0.00 2.18	0.00	8.43 0.00	0.00 21.67	0.00	0.00	0.00 29.89	0.00 17.16	0.00 7.36	0.00	0.00
4 n	61.32 35	59.89 13	61.48	100.00	44.76	0.00	100.00	100.00	70.11 4	34.14 5	70.85 5	62.21	36.19 5
And in which month (or season)	2.19		0.74	69.09	0.00	0.00	0.00	27.67	27.61	17.16	0.00	0.00	0.00
April	1.87	14.72	2.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.10	0.00	0.00
June August	1.61 0.19	2.68 1.83	1.48	30.91	0.00	0.00 4.81	0.00	0.00	57.84 0.00	29.79	0.00	0.00	0.00
September October	41.53 2.74	17.56	44.32 3.06	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	62.21	36.60
November	1.05	2.11	0.92	0.00	44.76	0.00	0.00	0.00	0.00	4.35	4.61	0.00	0.00
December Spring	6.47 2.97	29.76 22.83	3.76 0.66	0.00	0.00	78.33 0.00	0.00	0.00 72.33	0.00	0.00	21.79 0.00	0.00	7.89
Fall Winter	8.38 4.73	0.00 6.41	9.35 4.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.14 7.36	0.00	0.00 35.40
Don't Know	26.27	2.12	29.08	0.00	55.24	0.00	0.00	0.00	0.00	48.70	0.00	37.79	20.12
<msp26_77> What type of lighting equipment was removed and repl</msp26_77>	aced whe	n you ins	alled the	OTHER F	IXTURES								
High Performance T8 T8 fluorescent fixtures (1in. diameter b	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
T10 fluorescent fixtures T12 Fixtures (1.5in. diameter bulbs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HID (High Intensity Discharge) Fixtures-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Compact Fluorescent, Screw-in Modular Compact Fluorescent, Hardwire	3.98 0.00	0.00	4.45 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.10 0.00	0.00	28.4
Incandescent Generic LED (SCREW BASE)	35.46 0.00	8.79 0.00	38.56 0.00	27.50 0.00	0.00	16.86	0.00	0.00	47.46 0.00	0.00	61.50 0.00	37.79 0.00	0.0
Exit Signs, Compact Fluorescent Exit Signs, LED	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Halogen	42.86	17.56	45.80	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	62.21	20.12
Install Reflectors Electronic Ballast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnetic Ballast Lighting Controls, Time Clock	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Occupancy Sensor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lighting Controls, Bypass/Delay Timers Lighting Controls, Photocell	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Fat/Thick Tubes	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Skinny/Thin Tubes T5 Fixtures (5/8in. diameter)	0.06	0.62	0.00	3.41	8.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nothing removednew eugipment	11.33	35.74	8.50	69.09	0.00	78.33	0.00	0.00	22.66	56.85	21.79	0.00	43.58
Other -Record Refused	4.03 0.00	5.73 0.00	3.83 0.00	0.00	91.57 0.00	4.81 0.00	0.00	0.00	17.95 0.00	43.15 0.00	16.71 0.00	0.00	0.00
	0.91 35	8.73 13	0.00	0.00	0.00	0.00	0.00	27.67 2	0.00	0.00	0.00	0.00	0.00
Don't Know		noved?											
n <msp27_77> Approximately how old was this lighting equipment that</msp27_77>			60.92	0.00	100.00	77.80	100.00	0.00	0.00	60.23	84.53	62.21	64.3
<msp27_77> Approximately how old was this lighting equipment the Less than 5 years old Between 5 and 10 years old</msp27_77>	59.59 11.29	53.29	7.87	100.00	0.00	0.00		100.00	100.00	39.77	15.47		
<msp27_77> Approximately how old was this lighting equipment the Less than 5 years old Between 5 and 10 years old Between 10 and 15 years old Between 10 and 15 years old or</msp27_77>	59.59 11.29 1.91	53.29 2.84	1.83	0.00	0.00	22.20	0.00	0.00	0.00	0.00	0.00	0.00	
<msp27_77> Approximately how old was this lighting equipment the Less than 5 years old Between 5 and 10 years old Between 10 and 15 years old or Between 10 and 15 years old or More than 15 years old?</msp27_77>	59.59 11.29 1.91 27.22 27	53.29 2.84 0.61			0.00								
Ams. Approximately how old was this lighting equipment the Less than 5 years old Between 5 and 10 years old Between 10 and 15 years old Between 10 and 15 years old or More than 15 years old or More than 15 years old or Ams. Ams. Ams. Ams. Ams. Ams. Ams. Ams.	59.59 11.29 1.91 27.22 27 equipmer 34.26	53.29 2.84 0.61 11 nt? 17.55	1.83 29.38 16 35.62	0.00 0.00 2	0.00 0.00 3	22.20 0.00 2 22.20	0.00 0.00 1	0.00 0.00 2 27.67	0.00 0.00 3	0.00 0.00 3	0.00 0.00 4 21.36	0.00 37.79 2 37.79	0.00 3 50.36
<msp27_77> Approximately how old was this lighting equipment the Less than 5 years old Between 5 and 10 years old Between 10 and 15 years old Order than 15 years old or More than 15 years old or Archivest Page 10 and 15 years old or Archivest Page 10 years old old or Archivest Page 10 years old or Archivest Page 10 years old old old or Archivest Page 10 years old old old old old old old old old old</msp27_77>	59.59 11.29 1.91 27.22 27 equipmer	53.29 2.84 0.61 11	1.83 29.38 16	0.00 0.00 2	0.00 0.00 3	22.20 0.00 2	0.00 0.00 1	0.00 0.00 2	0.00 0.00 3	0.00 0.00 3	0.00 0.00 4	0.00 37.79 2	35.66 0.00 3 50.36 49.64 0.00

	ALL	LED Lamp(s)(%)	LED Reflector(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	LED Reflector(s) Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
<msp29_77>Approximately what percentage of this removed lighting 0</msp29_77>	15.47 3.34	9.68 35.53	15.94 0.72	100.00 0.00	44.76 0.00	22.20 0.00	0.00 0.00	0.00 72.33	76.80 0.00	10.08	84.70	0.00	35.66 13.98
10	75.76	37.30	78.89	0.00	0.00	77.80	100.00	0.00	0.00	0.00	9.41	100.00	0.00
30 40	0.45 0.17	0.00	0.49 0.18	0.00	0.00	0.00	0.00	0.00	23.20 0.00	0.00 39.77	0.00	0.00	0.00
50 100	3.32 1.49	0.61 16.89	3.54 0.23	0.00	0.00 55.24	0.00	0.00	0.00 27.67	0.00	0.00 50.15	5.90 0.00	0.00	50.36 0.00
n	27	11	16	2	3	2	1	2	3	3	4	2	3
<li30_a> Considering all of the lighting changes we just discussed (pchanges?</li30_a>													
0 Percent Between 0 and 15 Percent	24.95 39.71	7.13 65.23	28.21 35.05	0.00 19.14	0.00 32.48	0.00 79.44	100.00	0.00 94.64	0.00 79.16	0.00 68.81	0.00 18.06	44.63 34.81	0.00 36.34
Between 15 and 30 Percent Between 30 and 45 Percent	19.80 6.09	18.17 1.10	20.10 7.01	29.38 0.00	67.52 0.00	4.56 0.00	0.00	0.00 2.39	14.62	20.38		20.56	1.76
Between 30 and 45 Percent Between 45 and 60 Percent	2.81	3.94	2.60	5.21	0.00	16.00	0.00	1.99	6.23	0.00	29.29 5.86	0.00	16.90 8.63
Between 60 and 80 Percent	0.87	2.87	0.51	34.76	0.00	0.00	0.00	0.00	0.00	0.00	3.67	0.00	0.00
Between 80 and 100 Percent Don't Know	2.57 3.19	1.11 0.45	2.84 3.69	11.51 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.91 20.46
n	79	33	46	9	6	4	1	12	11	9	7	4	14
<cl1> What type of equipment is used to cool this facility? No A/C</cl1>	5.47	5.62	5.41	8.39	5.02	2.16	9.08	5.25	3.62	18.91	0.56	0.41	9.79
Split system-compressor is separate from	11.84	10.12	12.45	18.18	19.77	8.82	0.00	3.92	16.70	0.00	2.74	16.99	11.74
Packaged system-(one component-rooftop u	75.08 0.06	77.37 0.22	74.28 0.00	60.58 0.88	72.35 0.00	84.53 0.00	69.43 0.00	87.47 0.00	73.33 0.00	80.26 0.00		66.16 0.00	74.99 0.00
Package Terminal A/C or Heat Pump (Hotel Evaporative coolers (swamp coolers)	1.98	2.06	1.96	3.02	0.00	3.44	0.00	1.52	0.00	20.00		0.00	0.00
Water or Air Chiller (Central plant)	0.34	0.15	0.40	0.62	0.00	0.00	0.00	0.00	3.31	0.00	0.00	0.00	0.00
Window/Wall Units Other	1.46 0.46	3.40 0.49	0.78 0.45	9.09	1.18	0.00	0.00	2.63 1.20	2.33	0.00	0.00	0.00	1.29
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	9.89 559	2.26 277	12.56 282	1.84 106	1.01	1.05 34	21.49	0.69 96	4.26 93	0.83 43	0.00	33.44 10	2.52 102
<cl2> What is the primary fuel used by this cooling equipment?</cl2>										-			
Electricity Natural Gas	78.83 3.09	86.75 4.60	76.06 2.56	86.14 7.44	89.27 4.23	91.29 0.00	76.36 0.00	85.43 5.97	79.29 3.61	71.90 13.79		67.08 0.00	78.82 4.05
Natural Gas Both Electricity and Gas	5.92	4.60	6.56	1.23	6.00	8.71	0.00	3.47	15.08	9.23	7.57	0.00	9.26
Don't Know	12.16	4.56	14.82	5.19	0.50	0.00	23.64	5.13	2.03	5.09	0.00	32.92	7.88
n <r1> What kinds of refrigeration equipment, if any, is present at your</r1>	500	248	252	100	36	30	2	80	87	39	32	9	85
Residential Sized Refrigerator	41.06	35.05	43.16	58.96	20.98	6.57	69.43	33.31	43.93	6.13		66.03	40.02
Residential Sized Freezer Larger Standard Refrigerator (>30 cubic	3.27 8.05	4.28 9.74	2.92 7.46	1.02	5.89 37.54	14.75 20.45	0.00	1.22	3.02 5.99	9.91 47.97	3.27 23.59	0.00	4.31 4.03
Self Contained - Coffin/Horizontal Case	3.07	6.18	1.99	0.00	21.37	3.75	0.00	7.42	0.00	14.66		0.00	0.55
Self Contained - Vertical Case (multi sh	2.00	2.95	1.67	0.00	13.53	6.16	0.00	0.28	0.00	13.11	7.08	0.00	0.48
Single-Deck display cases - Open single- Single-Deck display cases - Closed servi	3.12 2.04	3.80	2.88 1.67	0.62	7.69 13.83	13.27 7.42	0.00	0.39	2.25 0.00	16.07 24.12	3.27	0.00	3.61 0.00
Single-Deck display cases - Island coffi	1.28	1.94	1.05	0.00	2.87	8.25	0.00	0.00	0.00	10.90	4.18	0.00	0.00
Single-Deck display cases - Coffin/tub (Multi-Deck (vertical) display cases - Op	1.18 1.70	1.51 1.83	1.06 1.65	0.62	3.88 1.92	4.59 7.51	0.00	0.00	2.25 0.00	14.71 6.41	0.00	0.00	0.00 3.20
Multi-Deck (vertical) display cases - Op Multi-Deck (vertical) display cases - Gl	3.16	4.63	2.64	0.00	13.93	0.89	0.00	7.21	0.00	18.53		0.00	4.14
Walk-Ins and Preparation Areas - Freezer	14.52	16.27	13.90	1.37	43.93	50.33	0.00	2.25	4.29	46.81	52.65	12.88	2.10
Walk-Ins and Preparation Areas - Cooler/ NONE-no refrigeration equipment	18.57 11.35	25.06 17.90	16.29 9.06	6.56 19.54	66.60	69.62	0.00 9.08	4.89 32.96	10.77 16.63	65.02	72.78 0.00	6.00	8.99 13.17
Other	9.64	2.99	11.97	0.96	0.71	11.92	0.00	0.98	6.94	10.66	9.27	16.99	10.21
Refused Don't Know	0.08 7.54	0.29 1.62	0.00 9.62	0.00	2.39	0.00	0.00 21.49	0.00 1.07	0.00	0.00	0.00	0.00 27.97	0.00 1.01
n	559	277	282	106	38	34	3	96	93	43		10	102
<g1> Which of the following natural gas equipment is present at you</g1>		40.00	07.04	20.40	05.00	70.45	70.54	20.70	40.57	00.50	00.40	20.00	20.05
Water Heater Furnace	40.62 31.28	49.23 26.36	37.61 33.01	36.43 29.52	85.89 27.50	70.15 23.43	78.51 78.51	30.79 17.66	42.57 36.06	66.56 54.50		36.28 49.84	20.35 15.61
Boiler	3.39	5.00	2.82	1.30	10.82	17.43	0.00	0.00	6.29	15.27	11.21	0.00	0.00
Stove Clothes Dryer	17.71 2.72	22.67 5.75	15.98 1.66	11.08	48.09 24.29	70.89 6.51	0.00	1.02 3.46	17.24	69.33	71.32 0.35	0.00	5.95 3.40
NONE- DO NOT HAVE NATURAL GAS	32.06	34.37	31.25	48.64	7.45	4.59	0.00	53.95	48.79	11.45		4.82	60.11
Other	0.39	0.38	0.40	0.00	3.09	0.00	0.00	0.00	0.00	0.42	0.44	0.00	0.85
Refused Don't Know	0.08 13.56	0.29 4.14	0.00 16.85	0.00 2.07	2.39 0.00	0.00	0.00 21.49	0.00 6.26	0.00 1.05	0.00		0.00 41.91	0.00 7.17
n	559	277	282	106	38	34	3	96	93	43	34	10	102
<gh1> Do you have greenhouses at your facility? No</gh1>	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
n	559	277	282	106	38	34	3	96	93	43	34	10	102
<gh2> How many square feet of greenhouses do you have at your fa</gh2>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
<st1> Do you have steamtraps at your facility?</st1>						1	0.0-1					0.00	
Yes No	0.09 90.12	0.04 94.43	0.10 88.61	0.12 99.74	99.73	0.05 93.38	0.00 30.57	0.00 99.28	0.00 99.74	1.93 96.93	0.00 97.07	0.00 67.56	0.00 99.56
Don't Know	9.80	5.53	11.29	0.15	0.27	6.57	69.43	0.72	0.26	1.14	2.93	32.44	0.44
n	559	277	282	106	38	34	3	96	93	43	34	10	102
<st2> How many steamtraps are currently installed at your facility? 1 to 10</st2>	91.41	23.57	100.00	0.00	0.00	100.00	0.00	0.00	0.00			0.00	0.00
11 to 50	8.59	76.43	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
n <m1> Do you currently have any motors installed at your facility?</m1>	5	2	3	1	0	1	0	0	0	3	0	0	0
Yes	17.11	12.66	18.67	13.42	30.97	18.37	0.00	5.24	18.95	18.29		29.87	10.68
No n	82.89 559	87.34 277	81.33 282	86.58 106	69.03 38	81.63 34	100.00	94.76 96	81.05 93	81.71 43	87.03 34	70.13 10	89.32 102
<m2> How many motors are currently installed at your facility?</m2>	559	217	202	100	30	34	3	30	93	73	. 54	,,,	102
1	72.62	74.15	72.26	92.00	43.53	85.32	0.00	83.23	86.70	76.05		56.88	93.68
2	7.14 20.24	16.24 9.60	4.98 22.76	8.00	24.58 31.88	14.68	0.00	16.77	13.30	23.95	9.11	0.00 43.12	6.32 0.00
6													
6													

		.ED Lamp(s)(%)	r(s)(%)	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	np(s) ant - Sit)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflector(s) Office - Small(%)	LED Reflector(s) Restaurant - Fast Food(%)	ED Reflector(s) testaurant - Sit town(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
	ALL	ED Lan	LED Reflector(s)(%)	.ED Lamp(s) Office - Smal	LED Lamp(s) Restaurant - Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	ED Lamp(s) Retail - Large	ED Lamp(s) tetail - Small	ED Refl	LED Refl Restaura Food(%)	LED Reflector(s Restaurant - Sit Down(%)	ED Refl	ED Refl
<m3> What two or three applications account for most of the motor</m3>	energy us	ed in your		7.67	0.00		0.00			0.00	14.03	0.00	4.50
Pumping Fans/Blowers	4.85 12.66	10.45 9.56	13.40	2.55	29.51	26.77 0.00	0.00	6.17 0.00	11.85 1.44	52.32	61.96	0.00	26.00
Compressed Air Materials handling (conveyor belts)	11.24 1.47	20.13 5.02	9.13 0.62	41.08 0.62	0.00 16.14	14.68	0.00	33.36 0.00	9.82 0.00	25.79 1.80	9.11	0.00	26.66 2.41
Production process machinery Ventilation/HVAC	2.32 28.79	3.89 29.00	1.95 28.74	0.62 3.44	0.00 21.88	0.00 66.16	0.00	23.66 19.47	0.00 6.28	0.00 43.57	0.00 38.04	0.00 43.12	8.85 0.00
Boiler fans	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refused	10.22	21.62 0.00	7.51 0.00	43.90	0.00	33.84 0.00	0.00	4.23 0.00	46.07 0.00	5.08 0.00	0.00	0.00	7.18 0.00
Don't Know	1.84	9.60	0.00	0.00	31.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	83	41		15		6	0	12		12	6	2	13
<ot2> Besides what we have already covered, since January 2009, I Yes</ot2>	6.93	11.08	5.48	11.75	8.56	17.62	0.00	9.80	17.04	10.09	10.95	0.00	4.31
No Don't Know	89.86 3.21	88.92 0.00	90.19 4.33	88.25 0.00	91.44	82.38 0.00	100.00	90.20	82.96 0.00	88.37 1.54	89.05 0.00	87.12 12.88	95.69 0.00
n	559	277	282	106	38	34	3	96	93	43	34	10	102
<ot3> Which of the following types of equipment were installed sinc Food Service Equipment</ot3>	21.34	20.60	21.87	5.67	0.00	62.55	0.00	0.00	11.98	24.87	67.36	0.00	0.00
Water Heating Equipment Outdoor Lighting Equipment or	4.36 0.00	4.82 0.00	4.03 0.00	0.56	0.00	15.30 0.00	0.00	0.00	4.36 0.00	0.00	10.78	0.00	0.00
Compressed Air Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Refrigeration Equipment	24.46 12.12	28.21 17.98	21.80 7.97	73.27 12.34	58.37 8.09	0.00 37.19	0.00	10.17 7.74	24.02 0.00	3.26 7.64	0.00 32.64	0.00	40.99 0.00
Gas Equipment Record	5.07 26.07	3.27 27.46	6.34 25.08	0.00 6.75	33.53 0.00	0.26 3.74	0.00	0.00 72.88	0.00 19.07	64.24 0.00	0.00	0.00	0.00 59.01
Refused	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Don't Know	0.00 48	0.00 26	0.00 22	0.00	0.00	0.00 7	0.00	0.00	0.00	0.00 5	0.00	0.00	0.00
<ot7_1> What was the efficiency level of the Food Service Equipme Energy Star</ot7_1>	nt? 79.25	90.28	71.89	0.00	0.00	97.31	0.00	0.00	0.00	33.59	100.00	0.00	0.00
Don't Know	20.75	9.72	28.11	100.00	0.00	2.69	0.00	0.00	100.00	66.41	0.00	0.00	0.00
<ot10_1> In what year did you install the Food Service Equipment?</ot10_1>		3	٥	,	U	- 2	٥	٧	,	2	2	٧	
2009 2010	1.59 15.28	0.00 7.23	2.66 20.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.90 0.00	0.00	0.00
2011	4.47	0.00	7.46	0.00	0.00	0.00	0.00	0.00	0.00	66.41	0.00	0.00	0.00
2012 2013	2.26 76.39	0.00 92.77	3.77 65.46	0.00	0.00	0.00 100.00	0.00	0.00	0.00	33.59 0.00	0.00 96.10	0.00	0.00
OT11_1> And can you recall the month?	8	3	5	1	0	2	0	0	1	2	2	0	0
February	1.00	2.49	0.00	0.00	0.00	2.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00
June December	1.59 2.26	0.00	2.66 3.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00 33.59	3.90 0.00	0.00	0.00
Summer Don't Know	79.87 15.28	90.28 7.23	72.91 20.66	0.00	0.00	97.31 0.00	0.00	0.00	0.00	66.41 0.00	96.10 0.00	0.00	0.00
n	8	3	5	1	0.00	2	0.00	0.00	1	2	2	0.00	0.00
<ot18_1> Did you receive a rebate for the Food Service Equipment? Yes</ot18_1>	95.13	100.00	91.06	0.00	0.00	100.00	0.00	0.00	0.00	0.00	96.10	0.00	0.00
No n	4.87	0.00	8.94	0.00	0.00	0.00	0.00	0.00	0.00	100.00	3.90	0.00	0.00
<ot7_2> What was the efficiency level of the Water Heating Equipme</ot7_2>	ent?								-				
Standard Efficiency High Efficiency	76.50 23.50	96.94 3.06	59.16 40.84	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
n <ot10_2> In what year did you install the Water Heating Equipment?</ot10_2>	4	2	2	1	0	1	0	0	1	0	1	0	0
2012	76.50	96.94	59.16	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
2013 n	23.50 4	3.06	40.84 2	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
<ot11_2> And can you recall the month? August</ot11_2>	23.50	3.06	40.84	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
September	76.50	96.94	59.16	0.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00
n OT18_2> Did you receive a rebate for the Water Heating Equipment	4	2	2	1	0	1	0	0	1	0	1	0	0
No n	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00
<ot7_3> What was the efficiency level of Outdoor Lighting Equipme</ot7_3>	nt ?		, ,	,									
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<ot10_3> In what year did you install the Outdoor Lighting Equipme</ot10_3>	nt ?	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<ot11_3> And can you recall the month?</ot11_3>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <ot18 3=""> Did you receive a rebate for the Outdoor Lighting Equipm.</ot18>	ont?	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n <ot7_4> What was the efficiency level of the Compressed Air Equip</ot7_4>	nent?	0	0	0	0	0	0	0	0	0	0	0	0
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<ot10_4> In what year did you install the Compressed Air Equipment</ot10_4>	t?												
n	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<ot11_4> And can you recall the month?</ot11_4>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<ot18_4> Did you receive a rebate for the Compressed Air Equipme</ot18_4>	nt? 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
n	0	0	0	0	0	0	0	0	0	0	0	0	0

SOT, P. What was the efficiency self and MAC Cooling Equipment? Service Ministry S			(%)(s)	(%)(s	(s) nall(%)	(s) t - Fast	(s) t - Sit	(s) .de(%)	(s) iall(%)	ctor(s)	ctor(s) t - Fast	ctor(s) t - Sit	stor(s)	ctor(s)
Company Comp		ALL	LED Lamp(s)(%)	LED Reflector(s	LED Lamp(s) Office - Small(%)	LED Lamp(s) Restaurant - Fast Food(%)	LED Lamp(s) Restaurant - Sit Down(%)	LED Lamp(s) Retail - Large(%)	LED Lamp(s) Retail - Small(%)	LED Reflec Office - Sm	LED Reflector(s) Restaurant - Fas Food(%)	LED Reflector(s Restaurant - Sit Down(%)	LED Reflector(s) Retail - Large(%)	LED Reflector(s) Retail - Small(%)
High Effective Co. 1940 1940	<ot7_5> What was the efficiency level of the HVAC Cooling Equipme</ot7_5>	ent?	10.60		0.00			0.00	0.00			0.00	0.00	
Color Colo	High Efficiency	19.64	6.44	31.75	8.89	0.00	0.00	0.00	3.11	67.48	0.00	0.00	0.00	6.53
CFTS_6 by what year did you metalf the WACA Cooling Equipment. 15														
2011 3.00 1.00 5.07 0.00	n			7										
Section Sect		33.09	11.09	53.27	0.00	0.00	0.00	0.00	91.37	0.00	0.00	0.00	0.00	93.47
2013 6 20 8 97 90 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										8.98				
Section Common														
August 2300 1509 5327 200 0.08 0.09 0.77 0.00 0.00 0.01 0.00 0.0		14	7	7	3	1	0	0	3	4	1	0	0	2
November 328 1.17 5.21 1.72 5.00	August													
December 14.5 2.89 22.79 7.77 0.00 0.														
COTIS, SP Did you receive a nibula for the NYAC Cooling Equipment?		14.23	4.89	22.79	7.17	0.00	0.00	0.00	0.00	54.88	0.00	0.00	0.00	0.00
## Comment Com														
## 100 100	n	14		7										
## Command		100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00
Strong of Head Stro	n	8		4	2				2	2				2
High Efficiency 648 15.03 0.00 20.02 20.08 0.00 0			35.52	39.36	0.00	73.77	51.21	0.00	0.00	0.00	100.00	33.03	0.00	0.00
Control 10 10 10 10 10 10 10 1	High Efficiency	9.61	15.63	0.00	0.00	26.23	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
## Command														
2009 128 204 0.00 0.00 202 0.00 0.00 6.34 0.00 0.0	n	12		3										0
2012 9.49 9.52 9.48 0.00 73.77 10.05 0.00 0.00 100.00 0.0			2.04	0.00	0.00	26.23	0.00	0.00	6.34	0.00	0.00	0.00	0.00	0.00
Company														
## Control of Programs 12 8 3 1 2 4 0 2 0 1 2 0 0 0 0 0 0 0 0 0														
April Apri	n		9											
February 0.66		37.03	22.27	60.64	0.00	0.00	35.24	0.00	0.00	0.00	0.00	66.97	0.00	0.00
Noembre 27 51 28 01 29 91 0.00 0	February													
Winter Sammer Miles M														
Dot Now 10.85 11.73 9.46 0.00 73.77 13.55 0.00		8.36	13.58	0.00	0.00	0.00	0.00	0.00	93.66	0.00	0.00	0.00	0.00	0.00
Color Colo														
No	n			3		2			2		1			
Color Part Color Colo		28.67	52.07	0.00	0.00	100.00	27.78	0.00	100.00	0.00	0.00	0.00	0.00	0.00
STT				100.00		0.00								
High Efficiency 0.66			5	,	U	7	2	0	2	U	U	,	U	- 0
COT10_7> In what year did you install the Gas Equipment?	High Efficiency													
2011 0.65 2.43 0.00	Energy Star		97.57	100.00	0.00	100.00		0.00		0.00	100.00	0.00	0.00	0.00
Section Sect		0.05	0.10	0.00		0.00	100.00	2.00	0.00	0.00				-
STITE To No No No No No No No														
April 0.65 2.43 0.00		3		1		1					1			
Cottagn=12		0.65	2.43	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
No 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 0.00 0.00 100.00 0.0		99.35	97.57	100.00		100.00	0.00	0.00	0.00		100.00	0.00	0.00	
Standard Efficiency 27 03 166 40.32 22 59 0.00			2			/1	- '	۰	٧	U	,	U U	U U	-
Standard Efficiency 10.87 3.68 40.32 22.59 0.00 0.0		100.00		100.00										
Standard Efficiency 27.03 1.66 40.32 22.59 0.00 0.0	<ot7_77> What was the efficiency level of the other equipment?</ot7_77>		2	- 1	,	- 1	- 1		۰	٥	,	۰	۰	Ů
Energy Star 55.09 78.98 42.56 0.00	Standard Efficiency													
***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install of the other equipment?** ***COT10_77> In what year did you install on the other equipment?** ***COT10_77> In what year did you install on the other equipment?** ***COT10_77> In what year did you install on the other equipment?** ***COT10_77> In what year did you install on the other equipment?** ***COT10_77> In what year did you install on the other equipment?** ***COT10_77> In what year did you install on the other equipment?** ***COT10_77> In what year did you install on the other equipment?** ***COT10_77> In what year did you install year did you install year did you install year did you install year did														
COT10_77> In what year did you install of the other equipment? 2009 20.99 0.00 31.99 0.00<														0.00
2009 20.99 0.00 31.99 0.00 0.00 0.00 0.00 0.00 0.00 0.00 56.89 0.00	<ot10_77> In what year did you install of the other equipment?</ot10_77>	. 12		٥	3	U	'	v		٥	U	v	0	
2011 9.60 0.00 14.64 0.00	2009													
2013 6.57 11.64 3.82 22.59 0.00 0.00 0.00 11.22 6.82 0.00	2011	9.60	0.00		0.00	0.00	0.00	0.00	0.00	25.48	0.00	0.00	0.00	0.00
COT11_77> And can you recall the month? August 1.31 3.90 0.00 0.00 0.00 100.00 0.0														
August 1 3.1 3.9 0.00 0.00 0.00 0.00 0.00 0.00 0.00	n	12	6			0.00			2					
September 0.42 1.26 0.00 71.43 0.00 0	<ot11_77> And can you recall the month?</ot11_77>	1 24	3 00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
December 3.56 10.58 0.00 0.00 0.00 0.00 0.00 0.00 11.22 0.00 0		0.42	1.26		71.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spring 57:14 83.76 43.65 0.00 0.00 0.00 0.00 88.78 0.00 0														
Don't Know 31.72 0.00 47.81 0.00 0.00 0.00 0.00 0.00 0.00 0.00 84.83 0.00	Spring	57.14	83.76	43.65	0.00	0.00	0.00	0.00	88.78	0.00	0.00	0.00	0.00	100.00
No 85.44 100.00 74.41 0.00 0.00 100.00 0.00 100.00 0														
No 85.44 100.00 74.41 0.00 0.00 100.00 0.00 100.00 0.00 0	n													
Don't Know 14.56 0.00 25.59 0.00 0.00 0.00 0.00 0.00 100.00 0.00 0	<ot18_77> Did you receive a rebate for the other equipment?</ot18_77>	85.44	100.00	74 44	0.00	0.00	100.00	0.00	100.00	0.00	0.00	0.00	0.00	100.00
n 4 2 2 0 0 1 0 1 1 0 0 0 7			0.00			0.00		0.00				0.00	0.00	
	n	4	2	2	0	0	1	0	1	1	0	0	0	1

Appendix E

Lighting Logger Field Installation Procedures

This appendix contains the procedures for installing lighting loggers in commercial establishments for the Nonresidential Downstream Lighting Impact Evaluation of the 2010-2012 Investor-Owned Utilities' (IOU) energy efficiency programs. It presents an overview of the objectives and describes the equipment and materials used for the study, initialization and programming of the data loggers, the procedures to be used for installing and extracting the loggers, and the procedures for panel metering and circuit spot measurements.

Please note that this appendix contains materials taken directly from the procedure and guideline documents provided to the onsite surveyors, and therefore are written in a future tense on what the surveyors should do on-site.

Sections of this appendix are as follows.

- E.1 Technologies Monitored
- E.2 Equipment and Installation Materials
- E.3 Data Logger Initialization and Programming Procedures
- E.4 Logger Installation Guidelines (Non-Panel Metering)
- E.5 Special Logger Installation Situations
- E.6 Logger Extraction Procedures
- E.7 Panel Metering Guidelines

E.1 Technologies Monitored

Lighting loggers will be used to obtain annual equivalent full load hour estimates and load shapes for seven high-impact measures (HIM) lighting technologies: Indoor – CFL Basic, CFL Reflectors, Occupancy Sensors, HIDs, High Bay Fluorescents, Linear Fluorescents, and Linear Fluorescent Delamping. The following are brief descriptions of each technology monitored:

■ Indoor CFL – Basic (CFL). These are either screw-in CFLs or pin-based fixtures. For these measures, the counts and measure descriptions are available from the IOU tracking database.

- Indoor CFL Reflector (CFLr). These are either screw-in CFLs or pin-based fixtures where the CFL shape is that of a reflector, flood, or PAR. For these measures, the counts and measure descriptions are available from the IOU tracking database.
- Indoor Controls Occupancy Sensor (OCC). These are any type of occupancy sensor that controls indoor lighting. These will typically be mounted on indoor walls, ceilings, or integrated into the lighting fixture.
- **Indoor HID (HID).** These are high intensity discharge lamps with the most common being metal halide and ceramic metal halide.
- Indoor High Bay Fluorescent (HBF). These are typically four to six lamp T8 or T5HO fixtures used in a high bay (fixtures greater than 12 ft. in height) space. They typically replace HID lighting or HO T12s.
- Indoor Linear Fluorescents (LF). These are non-high bay linear fluorescent fixtures, typically converted and/or delamped from T12s, but other baseline technologies (less efficient T8s, incandescent, mercury vapor, etc.) are possible.
- Indoor Linear Fluorescent Delamping (LFD). Typically these are done in conjunction with a linear fluorescent retrofit where the fixture configuration installed has fewer lamps per fixture than the fixture that was replaced.

E.2 Equipment and Installation Materials

This section contains a description of the lighting loggers used for this study, and the materials needed to install them.

E.2.1 Lighting Data Loggers

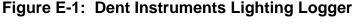
Dent Instruments (DENT) and/or Onset Computer Corporation (HOBO) data loggers will be used for this study. The three data logger models that will be used are:

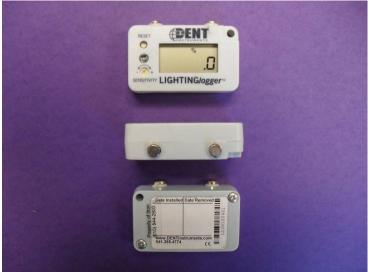
- DENT LIGHTINGlogger (LL or LC). This is the project default, and will be used for all HIM lighting technologies whenever possible. These loggers are installed on or in the vicinity of lighting fixtures and follow the installation guidelines set forth in Section E.4 below.
- DENT CTlogger (CT). The CT (current tranducer) logger will be used for HIM lighting technologies in plug-in or high bay applications where fixtures are not accessible and do not have integrated occupancy sensors. When used in high bay applications the logger will be installed in the electric panel and follows installation guidelines set forth in Section E.7 below.

Onset HOBO U12-006 (*HOBO*). This is a four channel logger that when used in combination with Onset split-core current transducers (CTV/A/B/C) records current levels flowing through a circuit at pre-defined time intervals. This logger and current transducer combination will be used for high bay applications where fixtures are controlled by integrated occupancy sensors. These loggers are also installed in electric panels and follow the installation guidelines in Section E.7 below.

Each data logger is described briefly below.

DENT LIGHTING*logger*TM (TOUL-3G). This is a time-of-use (TOU) logger that monitors on/off events and is the default data logger installed on the majority of measures seen throughout the project. The data logger is shown in Figure E-1. Both the photocell sensor and adjustment screw are located on the front of the logger, as is the LCD indicator panel which shows total ontime in hours, percent of time on, and a light-on indicator. These loggers are equipped with magnets that can be used to attach to the lighting fixture.





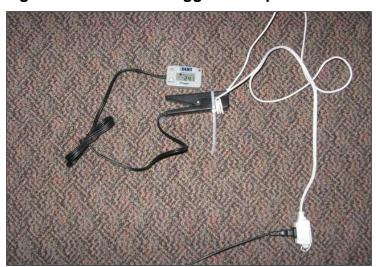
DENT CT*logger*TM (TOUCT-3G). This data logger is shown in Figure E-2. The CT logger is also a time-of-use type logger, but monitors the current through an electrical circuit via a clampon current transducer (CT). The CT logger will be used to monitor plug-in wall-mounted and table fixtures, such as those commonly found in hotels and motels, as well as be installed in electrical panels to monitor inaccessible high bay fixtures controlled by a switch or circuit breaker. As with the DENT lighting logger, the adjustment screw and LCD indicator panel are located on the front of the logger. For plug-in fixtures, a split-wire extension cord will need to be used with the CT logger. As shown in Figure E-3, one of the wires from the extension cord is

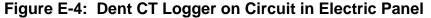
wound around the prongs of the CT logger, and the CT is zip tied to ensure that it remains clamped around the wire. Because the minimum current sensitivity of the logger (0.25 amps) was below that for a single lamp (12W CFL. 120V = 0.1 amps), typically at least three twists were required to ensure that the logger would register. Surveyors were instructed to use as many twists as needed to register fixture operation at its minimum operation state, for example, for a two lamp fixture with independent switching the minimum would be one lamp. For high bay fixtures, the CT will be installed on the lighting circuit in the electric panel as shown in Figure E-4.

Figure E-2: Dent CT Logger



Figure E-3: Dent CT Logger and Split-Wire Extension Cord







Onset HOBO U12-006 with CVT-A/B (HOBO). These are continuous type metering loggers rather than event loggers, and can record the magnitude of current at a pre-defined time interval when used in conjunction with the HOBO split-core current transducers (CTV-A/B). For high bay lighting that is controlled by integrated occupancy sensors and are not physically accessible, Itron will use the HOBO logger with CTV-B (50 amp) and CTV-A (20 amp) split-core CTs to log the lighting circuits. The HOBO allows for up to four split-core CTs, however, due to limited logger memory, Itron will only use two of the four channels as to extend the data logging period. This data logger setup is shown in Figure E-5.

Figure E-5: HOBO Logger and Split-core CTV-B



A summary of the data logger specifications is presented in Table E-1.

Table E-1: Data Logger Characteristics Summary

Logger Type	Sensitivity Range	Sensitivity Adjustment* - = less sensitive + = more sensitive	Event Checking Rate	Data Storage Capacity	Battery Life
Dent LL	2 to 450 lumens/m ²	CC = -, CW = +	1 sec	8000 on/off events	5 Year
Dent CT	0.25 to 16 amps	CC = -, CW = +	1 sec	8000 on/off events	5 Year
НОВО	+-4.5% of Full Scale	NA	5 min	43,000 measurements	1Year

^{*} CW = Clockwise, CC = Counter-clockwise

E.2.2 Logger Installation Tools and Materials

Materials needed specifically for lighting logger installation include the following.

- Multiple copies of the CPUC Letter of Introduction and business cards. These should be left behind at every site so that if something happens with the loggers, the site contact will know who to contact.
- Extra copies of blank logger installation and verification forms.
- Assortment of loggers (based on measures to be logged).
- Large gallon-size zip-lock plastic bags (for storing retrieved loggers or broken CFL clean-up).
- Razor blade or sharp pocket knife (for slitting painted-over fixtures to allow access to lamps and ballasts).
- Plastic zip ties, variety pack various lengths (4", 8", 14").
- \blacksquare 3M double-sided tape 1" squares (3M-4026) and glass scraper (for removal).
- Hook and loop (i.e., VelcroTM) tape.
- Stick-on, round Avery labels (color coding dots) for marking the location of installed loggers (something bright and easy to see, i.e., red, yellow, orange). Note that dots do not have to be used for smaller sites where the lamps are uncovered and loggers are clearly visible, and every fixture and logger location can be shown on the site sketch.
- Poster putty (removable/reusable). The best way to install a logger with putty is to put two dime to nickel sized pieces in contact with the logger and the surface.
- DENT Flexible fiber-optic attachment, various lengths.
- Split-wire extension cords for the DENT CT loggers.
- Flexible water discharge hose (used to hide and wrap installed CT loggers).

- Permanent ink fine point pen (for marking CFL lamps for retention study).
- Electrical tape and wire nuts.
- Small scissors or wire cutters (use to snip zip ties for logger extraction).
- 6 foot telescoping ladder to access lighting fixtures.
- For panel metering:
 - Insulated tool set for removal of panel covers
 - Personal Protective Equipment (PPE) following NFPA 70E standards
 - Digital multimeter with current transducer for circuit power measurements

E.3 Data Logger Initialization and Programming Procedures

Prior to their use in the field, data loggers need to be initialized and/or programmed. A summary of these procedures for DENT and HOBO loggers is provided in this section, but the *data logger user's guides should be reviewed for additional details*.

E.3.1 DENT Data Logger Initialization Procedures

The following steps, applicable to both the LL and CT loggers, should be taken when programming the DENT data loggers:

- 1. Be sure your computer clock is set to the correct time before beginning.
- 2. Make sure the software installed on your machine is Smartware 2011.
- 3. Communications cable needed is a Dent Smartlogger USB Com Cable.
- 4. After opening the software and plugging in a logger, choose the following:
 - A. Logger>Logger Clock>Synchronize time to match PC.
 - B. Logger>Clear Logger Memory.

E.3.2 HOBO Data Logger Initialization Procedures

The following steps should be taken when programming the HOBO data loggers:

- 1. Be sure your computer clock is set to the correct time before beginning.
- 2. Make sure the software installed on your machine is HOBOwarePro.
- 3. Use a micro USB cable to connect data logger to computer.
- 4. After opening the software and plugging in a logger choose the following:
 - A. Device>Launch

- 5. In the pop-up click "Blink Device Light" to see if the red light on the logger blinks, then select "OK".
- 6. Verify the logger serial number and make sure the logger has sufficient battery life.
- 7. Enable channels 1 and 2 and change the sensor type to AC Current (50 or 20 Amps).
- 8. Disable channels 3 and 4.
- 9. Set the sampling interval to 5 minutes.
- 10. Set the starting method to "Button Start" and select "Launch" to complete the setup.

E.4 Logger Installation Guidelines

This section covers installation of the loggers, how to select the fixtures and proper logging method, and how to install and adjust the loggers while following proper safety protocol.

E.4.1 Pre-Visit Preparation

Before the site visit, the information provided on the populated onsite survey form should be *thoroughly reviewed* and the surveyor should estimate the number and type of loggers needed and installation methods to be used. The measure summary, phone survey questions, and site information sections of the survey form should all be reviewed. Issues to consider are discussed below.

- **Business Type.** Is it a large or small business? Is it likely to have high bay ceilings? Are the business hours regular/consistent, or mostly by appointment? If mostly by appointment, instead of making a cold-call (the default approach) the surveyor should call to schedule an appointment. If a school, then an appointment and possibly registration will be required if you plan on going during school hours. The DEER activity areas for this business type should also be reviewed.
- **Technology Types and Configurations.** What are the types of measures installed onsite? Are any of the measures installed in high bay applications and if so, are they accessible by lift or ladder? If there are high bay lights you may need to bring Dent CT and HOBO loggers. Are the CFLs likely to be downlights/cans? If so, then an optical cable might need to be used, so make sure that you bring a few and know how to use and install them.
- Measure Summary Table. This table contains a summary of the rebated measures that you will be logging and verifying, so review the Measure Summary table and make sure that you understand what the measures are. This should include understanding what the pre-retrofit baseline technology assumed by the IOUs was, since you will be trying to obtain that information as well.

■ Estimate the Number and Type of Loggers Needed and Bring Extras. To avoid revisiting a site to install additional loggers, be prepared by bringing a variety of loggers and installation materials, and also be ready to improvise with what you have if needed. But always remember rule #1 (safety first)!

As always, if there are any questions or anticipated problems, then the surveyor should consult with one of the field survey leads for direction *before actually visiting the site*.

E.4.2 Logger Placement and Logger Type

The first step in deciding which fixtures to log is to assess the site and define schedule groups of the rebated lighting fixtures. Once schedule groups have been defined, loggers should be placed in all areas that have a different time or control schedule. Several considerations factor into how and where loggers should be placed. The following guidelines will be used to determine the type, number, and location of loggers to be installed.

- 1. Safety for Surveyors and Occupants Is #1! If loggers cannot be installed safely, do not attempt to install them. It is better to lose this site and do another one than to risk injury installing and/or retrieving the loggers. This applies to the safety of the occupants as well. Never install a logger where it could injure someone if it falls especially if it is installed with putty, or alternately, make sure that a logger is secure if you are installing it above a space that is usually occupied (like a fixture above someone's desk).
- 2. **Defining Schedule Groups**. For this study, a schedule group can be considered as the Activity Area plus Hourly Equipment Operation Schedule plus the Control Type for the fixtures or circuits represented by the logger. When deciding on schedule groups, keep in mind that the final, composite logger data results should produce a complete picture of how the lighting measure/technology operates at that site. As such, lights that are on all the time, as well as those that are suspected to be mostly off should also be logged.
- 3. Log ALL lighting HIMs found onsite, unless otherwise noted. For this study, certain basic CFL and linear fluorescent measures do not need to be logged, and instead self-report lighting schedules will be used and adjusted using results from the 2006-08 lighting logger study. The survey forms will indicate which measures do not need to be logged.
- **4. Type of Loggers**. The types of loggers installed onsite depend on the rebated technologies, how they are controlled, and if they are physically accessible. Dent lighting loggers are used in most applications and are installed on physically accessible fixtures. Dent CT loggers are used for plug-in fixtures and inaccessible high bay fixtures controlled

For this study a "Schedule Group" consists of the Activity Area + Hourly Equipment Operation Schedule + Control Type that are to be represented by the logger.

by a switch or circuit breaker. HOBO loggers are used for inaccessible high bay fixtures controlled by integrated occupancy sensors as they measure current levels, capturing when each individually controlled fixture on a circuit is on or off. When logging inaccessible high bay fixtures, both the Dent CT and HOBO loggers are installed in electrical panels. This type of logging is referred to as "Panel Metering" has its own set of procedures and safety protocols contained in Section E.7 below.

- 5. **Minimum of # of Loggers per Site**. Never install only one logger at a site, unless the only measure at the site is a single lamp fixture. Even the smallest sites should have at least two loggers installed, one primary logger and one backup logger, if there is only a single circuit/switch at the site.
- 6. **Target** # of Loggers per Site. An overall average of 10 loggers per site is the target. For individual sites such as hotels/motels or sites with multiple private offices that means that more than 10 can be used if needed to characterize the diversity of lighting operation at the site. For Large Custom sites, the max number of loggers to install is 30. For most small commercial sites, it is expected that four to six loggers is all that will be needed, but the surveyor has the latitude to use a much larger number.
- 7. **Placement within Fixture: Avoid "insensitive" logger situations.** Be sure to place the logger so that the photocell eye "sees" only the lamp, and a part of the lamp that is brightest. This means checking the angle of installation as well as the position along the lamp. A symptom of incorrect placement is the logger appearing to be insensitive, that is, needing to be adjusted to maximum sensitivity to register. Situations to be avoided are:
 - Avoid darkened tube ends. Position the logger in the <u>middle</u> of the fixture and away from the tube ends, which will darken with age. This will also avoid the situation of trying to adjust a logger when the tube ends have already started to darken.
 - Avoid highly angled mounting surfaces. The logger should be installed such that the light sensor is aimed as directly at the light source as possible to maximize sensitivity and avoid ambient lighting effects. In practice, this means to avoid mounting the logger on an angled surface that will causes the sensor to view more of the fixture and surroundings than the lamp. The aperture of most light sensors is very small, so if it is not pointed directly at the light source the sensitivity will be need to be increased, which also makes the logger more susceptible to ambient lighting sources. If the logger has to be turned up to maximum sensitivity to register, then it is installed at too large an angle to the light source and should be re-adjusted with poster putty or moved to a different mounting surface.

- 8. **Back-up Loggers.** A "back-up" logger² is a logger placed on the same switched circuit but in a different fixture. Back-up loggers should not be placed side-by-side in the exact same physical location as the primary logger. If they are placed in the same spot due to special circumstances (like inaccessible fixtures and limited options for placing loggers on horizontal or vertical surfaces) then this situation should be fully explained in comments. Additional notes include:
 - Back-up required for Significant Loads/Number of Measures. Schedule groups that have larger than 10 fixtures must have a backup logger installed on the groups representing the largest kW loads. The idea is that if something happens to the primary logger that these large loads will always be represented in the final analysis.
 - Bi-level A/B Switched Fixtures. These are fixtures where the lamps in that fixture are on two different switches, and can be used to create two different lighting levels (hence bi-level). A logger installed on the "A" side should not be recorded as a back-up (secondary logger) for the "B" side. In addition, the "A" and "B" lamp loggers should be installed in different fixtures to avoid any lighting spillover. If this cannot be done, then the loggers should be installed so the logger eye is right on the lamp.
- 9. Single room or area served by multiple switches/circuits. At least one fixture on every switch should receive a logger. If the lighting in this area is a significant fraction of the total rebated quantity for the site, then a back-up logger should also be installed in at least one of the circuits. The surveyor should also ask if switches are typically operated separately or all together and should note this in comments, but should not rely on this information to limit the installation of loggers on all switches/circuits, except where an inordinate number of loggers (>20) would be required otherwise.
 - Describe Location. The room number, office tenant name, etc. should be recorded
 on the logger installation comments. This information will be used during logger
 data QC to compare/contrast the operation of switches/fixtures within the same area.
- 10. **Minimum # of Similar Areas to Log.** Examples include private offices, classrooms, and lodging guest rooms. If a large number of similar activity areas are found that have varying time schedules (such as individual private offices) then ~20% should receive loggers.
 - Target # of Guest Rooms for Lodging Sites. Surveyors should attempt to log at least five (5) guest rooms throughout the hotel/motel and representing as many different room configurations as possible. It is understood that access to guest rooms

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Note that for the analysis, if data from both loggers is good it will be averaged together rather than just using one logger.

- may be limited by the management staff. However, at least two guest rooms must be monitored, otherwise a replacement site will need to be selected.
- 11. **Difficult Locations: Downlight/Cans, Sealed, Inaccessible Fixtures.** Loggers do not have to be placed in the fixture. If the area is relatively free from other light sources (sunlight, task lighting, etc.) and a suitable location outside the fixture can be found, then the logger can be placed and adjusted properly for this location. Specific issues/examples are described below:
 - **CFL Cans/Downlights.** The easiest way to attach loggers to CFL cans/downlights is to use several plastic cable zip ties and tie them directly to the base of the lamp itself. If loggers cannot be placed inside of the cans, poster putty, double-sided tape, VelcroTM (hook and loop) tape, or plastic cable zip ties can be used to attach them outside the fixture. Unfortunately, CFL cans are usually aluminum, but sometimes poster putty or double-sided tape will work. Try stepping back and looking at the area/room as a whole and look for a spot with minimal ambient light pollution. Work through the possibilities to choose the best situation for logging. Sometimes there are other flat surfaces where a logger can be placed, or even metal nearby (such as HVAC diffuser plates) so the loggers magnets can be used. For cans that have slits in the top and are installed in a false ceiling, consider placing the logger in the ceiling on top of the can and over the slit. A proxy fixture – as described below – might also be used. If no other options are available, the DENT Flexible fiber-optic attachment may be used. Each circumstance is unique and might require a bit of thought and creativity, but you can usually find some way to install the logger properly.
 - High-Bay fixtures. If panel metering cannot be conducted the Dent lighting loggers can be placed on a horizontal surface (book case, shelf, etc.) away from windows and other ambient light sources and adjusted accordingly. Lots of testing is needed to confirm the logger is only capturing rebated lighting lumens and no other light sources.
 - Using a Proxy Fixture/Circuit. Generally, only <u>rebated</u> fixtures and lamps should be logged. However, if rebated fixtures or lamps are inaccessible but a suitable non-rebated fixture "proxy" is available, then loggers can be installed on that fixture/circuit. However, this approach should only be used as a last resort, and must be thoroughly explained in comments, photographs, and diagrams if needed.
- 12. **Place Loggers where they will not be disturbed**. An attempt should always be made to place loggers where they are not easily noticed or accessed by occupants. This prevents moving, removal, or resetting by site personnel once the logger has been placed.
 - Consider covering the reset button. If the loggers are visible and can be easily accessed by a customer or guest, consider covering the reset button with a piece of tape of round sticker to remove the temptation of pressing the reset button.

- 13. **Do not install loggers in excessively hot environments.** The data loggers are only rated for 140 F, and some downlights and covered fixtures may get hot. DENT equates this to a distance of eight inches from a 100 watt incandescent bulb in free-moving air. In this situation, install the logger outside of the fixture and use a DENT with the fiber optic extension.
- 14. **Do not install loggers where there is a high probability of theft.** For sites such as a rundown motel with highly transient guests, or a restaurant where the installed logger would be accessible to the customers, if the loggers cannot be installed out of site and/or you think they will likely be stolen no matter where they are installed, then do not install loggers. Just be sure to document your reason for not installing loggers in site comments. Enough loggers are lost at reputable sites (sometimes as high as 20% at lodging sites), so that it is better to not install loggers where theft is highly expected. Whenever possible, you should call one of the field-survey leads to confirm this approach.
- 15. **Two Different Rebated Measures on the Same Switch**. The survey form is set up so a logger can be used to represent more than one measure. A reference box is included next to the logger field on the measures' Activity Area Assignment Table (AAAT) and can be checked any time a logger ID is repeated on another measure's AAAT.

Please note that whenever there is any doubt about the correct approach to be used for a site, Itron staff should be immediately consulted for guidance.

E.4.3 Dent Logger Adjustment and Installation Procedures (Non-Panel)

There are general as well as specific adjustment procedures required for the Dent loggers and they are addressed in this section.

DENT LL Logger Adjustment and Installation Procedures

Once the fixture locations have been decided, the following procedures should be used to properly set the logger to accurately measure lighting operation:

1. Press and hold the reset button (approximately two seconds) on the front of the logger until the word "rESEt" appears on the display, then <u>immediately</u> release the button.

NOTE: Be sure to release the reset button as soon as "rESEt" appears. Holding the reset button for more than that - approximately five seconds - will cause "CLEAR" to appear on the LCD. This function resets the internal date to 01/01/2001 and the time to 12:00 am. If this happens while on site, you should *not* use this logger and you will need to resynchronize the logger's date and time before it can be used.

- 2. The logger should be placed at or as close as possible to the location chosen.
- 3. Adjust the Sensitivity. The sensitivity adjustment screw should be all the way toward the negative (left). Slowly adjust the sensitivity screw toward the positive (right) until the sunlight symbol appears on the display. Note that there will be a couple second delay before the symbol appears on the display, so turn the sensitivity screw slowly and gradually to allow for this delay. When the symbol first appears, this means that the logger is now sensing the light from the measured fixture. Once this threshold has been reached, the sensitivity screw needs to be adjusted another ~10 degrees clockwise. NOTE: Be careful not to allow yourself to create a shadow between the measured light source and the sensor on the logger while doing this.
- 4. Once the sensitivity has been adjusted, place the logger in the location chosen and verify that the remains on in the display.
- 5. **Testing.** Now turn OFF the fixture/s being measured and verify that the symbol has disappeared from the display. This means the logger is no longer sensing light and will accurately measure the lighting source ON/OFF operation. If the light cannot be turned off, an easy way to test it is to face the photocell downward away from the light. Facing downward exposes the photocell to the amount of light it will see when the fixture is off.
- 6. Test one time further by turning ON the fixture/s and verifying that the lighting symbol appears again. If these are fixtures that are observed and/or reported to be always off, then see Section E.5.1.

Final Actions

- 7. Place a colored AveryTM dot near the logger to aid in locating the logger for removal.
- 8. Record the date of install and a detailed location for the logger on the survey form and site sketch.
- 9. Complete the verification survey form.

DENT CT Logger Adjustment and Installation Procedures

See "Hotel/Motel (and Other Lodging) Guest Rooms" in Section E.5.2 below.

E.5 Special Logger Installation Situations

There are some situations that require additional efforts, including the following.

- Fixtures/lamps that are always off.
- Hotel/motel guest rooms (and other lodging).
- High-ceiling and high-bay T5/T8 lighting.
- Using the fiber-optic cable for recessed cans.

E.5.1 Fixtures/Lamps That Are Always or Mostly Off

For some small businesses, the lights in some areas may be off more often than they are on. This can occur in areas that are rarely used, or in areas that receive adequate ambient lighting from windows, skylights, or adjacent areas. Since the logger data for these areas would look more like a logger that malfunctioned, special steps are taken during installation to ensure that we can tell that this is valid data:

- **Describe this unusual situation in comments!** Because there is essentially no energy being used and hence no savings being produced by these fixtures, this situation should be thoroughly described in comments and a unique schedule defined. The comment must include the *reason* the lights are typically turned off (e.g., ambient light from windows/skylights is enough, staff work mostly in another room that does not have rebated measures, etc.). An estimate of the on time (hours per day, week, or month, whatever the site contact tells you) should be incorporated into the schedule and recorded in comments.
- Test Period to validate logger operation. Once installed, the logger should be run through a "test period" of operation; the light must be turned on and left on for at least one minute or more. If possible, you should leave the light on the whole time that you are installing loggers in other areas, which will give an even better test period/confirmation. This process will be repeated when the logger is extracted if the lights are off at the time of the site visit. The idea is that, even if these lights are never turned on during the monitoring period, the test period data which can be reviewed as part of the logger data QC process will confirm that the logger was correctly installed and operational.

As always, if there are multiple switches/circuits in a room, both need to be monitored and both should be tested.

E.5.2 Hotel/Motel (and Other Lodging) Guest Rooms

The problems that a surveyor faces with installation of loggers at a lodging site are numerous and include:

- Getting access to the guest rooms, which is typically where rebated CFLs are installed.
- Guest room CFL fixtures are typically plug-in wall, desk, and floor lamps for which CT loggers are better suited (rather than LL loggers).
- Sub-sampling to estimate for large numbers of rebated fixtures/lamps.
- Tracking burnt out CFLs or # rebated units that failed and replaced with in-kind technology. Since records are not kept by the maintenance staff it is usually impossible to estimate a schedule for these lights.
- Theft of the CT loggers, which requires additional efforts to hide and secure them.

NOTE: Do not install loggers at a site – especially a smaller one – if you think there is a high probability that all or most of the loggers will be stolen. Just be sure to document your reason for not installing loggers in the "lost" site disposition. Enough loggers are lost at reputable sites (typically about 20%), so that it is better to not install loggers where theft is highly expected.

This procedure attempts to address these conditions. The following approach should be followed while performing the verifications and logger installation at lodging facilities:

- Schedule the site visit. Unlike most small commercial sites which can be visited without scheduling, for a larger hotel it is better to schedule an appointment with the site contact. Furthermore, if the CFLs are installed in the guest rooms, then you should ask them to make available five rooms and, if possible, a variety of rooms. These would include different physical configurations, and those on different floors that are occupied frequently and not as much. You can also try to schedule your visit between typical check-in/check-out times. In case of a smaller motel site, scheduling may not be necessary, though it is always a good idea to ensure some guest rooms are accessible.
- Use the LL Loggers whenever possible, be creative! The LL loggers should be used wherever possible, as they are less expensive and can be used in more applications than the CT loggers. Two examples showing creative use of tie-wraps are shown in Figure E-6 and Figure E-7 below. However, if needed, a CT logger can be utilized for plug-in fixtures.





Figure E-7: LL Logger Installation in a Table Lamp w/ Zip Ties



■ Obtain a site plan and attach to the survey form. Most lodging sites will have a map of the site that shows the site layout including all buildings and common areas (office/lobby, pool, gym, etc.). A copy of the site plan should be obtained and used to indicate which buildings were physically visited and what rooms the loggers were installed in.

- Add building identifiers if needed. If not already identified, label each building on the site plan with a letter or number (Bldg A, Bldg 1, etc.), which can be referenced on the sketches, comments, and lighting logger installation forms.
- Sketch the typical room layout. Provide a sketch of a typical room configuration showing placement of the lighting fixtures, or do a quick sketch of each room configuration that is logged, if there are significant differences. Show the bathroom as a separate area, if lighting measures are installed there.
- **Logging Common Areas.** The common areas in a hotel/motel (lobby, hallways, breakfast area, offices, etc.) can typically be logged with the default DENT LL loggers. However, if needed, a CT logger can be utilized for plug-in fixtures.
- Logging Guest Rooms. Most of the rebated CFLs for a lodging site will be located in the guest rooms. Up to five guest rooms located on different floors and of different physical configurations should be logged. However, access to the guest rooms is often limited by the site contact. If loggers cannot be installed in at least two guest rooms, then the site should not be logged and it should be recorded as a "lost" site.
- Approach to Logger Installation in Guest Rooms. Most of the CFLs in guest rooms will be installed in plug-in wall and table lamps. For these lamps, a CT logger is usually the best choice. However, as the CT loggers and associated split-wire extension cords are much more visible than the DENT LL loggers, it is important to take a few precautions during installation to avoid theft or disturbance of these units. Guidelines for installing loggers in guest rooms are as follows:
 - Install loggers on all measures. Install logger on <u>all</u> of the rebated measures in the guest room. Use the CT loggers for plug-in fixtures and LL loggers for hardwired fixtures and/or wherever they can be used.
 - Use as many loggers as needed. The average loggers assigned per site is 10, but it is OK and in fact expected for lodging sites that more than 10 loggers will be used. But do not install loggers in more than 5 guest rooms.
 - Hide the CT loggers. The CT loggers should be installed in such a way that they
 are out of sight, tucked away behind a desk, bed, table, or a television set.
 - Anchor/Secure the CT loggers. The CT loggers should be anchored with a zip tie
 to furniture or other fixed object whenever possible, as shown in Figure E-8. Again,
 this will help to eliminate theft of the loggers.
 - Inform maintenance staff. The surveyor should ask the site contact to inform the maintenance staff (head of housekeeping) about the loggers, so that they know not to disturb or unplug the logger. The surveyor should also leave his business card with the site contact so that they can call us in case the loggers are unplugged or end up in lost and found.

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— Guest room bathroom fixtures. The guest room bathrooms will usually have T8s or CFLs which can be logged with the LL loggers. Extra care must be taken to keep the logger out of sight so that the management does not get complaints from the guests. Create a separate Activity Area for the guest bathrooms.





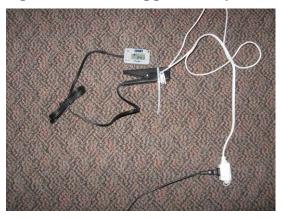
CT Logger Installation Procedure. The CT logger detects current flowing or not flowing through the wire and records this as ON/OFF transition data. A brief description of how a CT logger should be installed to monitor a plug-in fixture is given below.

- 1) Put a split-wire extension cord between the wall outlet and the plug-in fixture containing the rebated measures.
- 2) **Adjust and test the sensitivity.** Turn the CT logger sensitivity switch all the way clockwise so it is at its highest level of sensitivity. This will ensure that the logger can detect low watt CFLs. For fixtures that have only one low-watt CFL bulb, wrap the wire around the CT clamp at least three times (as shown in Figure 7) to get the logger to register³. Turn the lamp on and make sure the indicator icon is shown on the panel. If it is not, keep wrapping until it registers as on. Also, if there are multiple lamps in the fixture that can be operated independently, test the logger to make sure that it registers with only one lamp on.
- 3) **Tie-wrap the CT jaws closed.** Once the logger is registering correctly, zip tie the CT closed as shown Figure E-9, make the assembly as unobtrusive as possible, and anchor the whole assembly as previously described, to avoid theft or accidental removal.

Minimum sensitivity is 0.25 amps, which corresponds to about 27W @ 110V.

4) **Wrap in flexible discharge hose.** The CT logger, split-extension cord, and lighting fixture cord should be enclosed in a sleeve of flexible discharge hose. This will clean up the installation and make it less likely that the logger will be removed by cleaning staff. A photo of discharge hose is shown in Figure E-10.

Figure E-9: CT Logger and Split-Wire Extension Cord



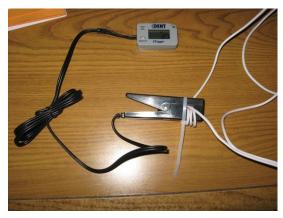
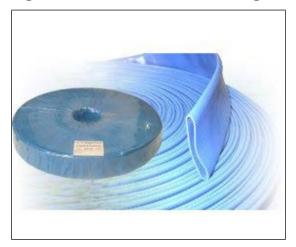


Figure E-10: Flat Water Discharge Hose





E.5.3 Inaccessible High-Ceiling and High Bay Fixtures

The DENT LL loggers should be used to log these fixtures whenever possible or whenever it makes the most sense by using whatever local equipment is made available to the surveyor (i.e., ladders or lifts) to reach the fixtures. However, in some cases, high-ceiling and high bay fixtures will be inaccessible. If panel metering cannot be conducted and if a good proxy for the inaccessible fixtures is available (i.e., a system that operates the same as the high bay system), then that approach can be used as long as it is noted as a proxy in comments. You should always ask if a lift or other method is available for accessing the fixtures. However, as always, consider

<u>your safety</u>; do not do anything that you feel is unsafe, such as standing on a pallet lifted by a forklift, or carrying a 30 ft. ladder through an active production line.

E.5.4 DENT Fiber Optic Attachment for Recessed Cans

A fiber optic attachment, shown in Figure E-11, is available for use with the DENT LL loggers. Minimum length is 1 foot, and longer lengths are available. The fiber optic attachment can be used for situations where the lighting loggers cannot be placed inside of the lighting fixture for physical reasons, or because the logger could overheat (for instance inside a CFL downlight). For example, for a site with recessed cans and a suspended ceiling, the logger can be placed behind one of the ceiling panels and the fiber optic attachment snaked through an opening in the can or the panel. Another use for the fiber optic attachment would be to "aim" the photocell at a high bay fixture and screen out ambient light.

One note of caution: The fiber optic attachment should <u>not</u> be bent at right angles to avoid cracking the housing! Bends should be gradual and curving, as shown in the figure.



Figure E-11: DENT LL Logger with Fiber Optic Attachment

E.6 Logger Extraction Procedures

Loggers are schedule to remain in the field for 2 to 6 months with a maximum of one year. Ideally the surveyor who did the original installation will also do the extraction. The type of lighting systems and loggers installed must be reviewed before visiting the site. Take a camera along to photograph problems found when the loggers are extracted or photos missed upon installation. Use a **colored pen** (**blue or red**) to record any extraction notes and comments so that they stand out from the text on the copied survey forms that are used for extraction and <u>do not use</u> a pencil! Wire cutters will be needed in loggers are installed with plastic zip ties. For magnets that separate from the loggers, a pair of pliers may be needed to remove magnets from the lighting fixtures.

The process should be as follows:

- 1. **Obtain a copy of the survey form.** *Prior to the site visit*, obtain a copy of the complete survey form and write "*Extraction*" across the top of the form. The copy can be made from the surveyor's original hardcopy or the scanned copy of the survey form that is saved on the network drive. It's typically easiest to print out the entire form. Do not use the original survey form for the extraction work! Additional instructions are:
 - On the cover sheet: Check the installation date and make sure the loggers have been in at least 2 months. Also note the surveyor's initials and have their cell phone number handy in case you need to call them while on site.
 - Review the cover sheet, comments, logger installation sheet, and site tracking spreadsheet for notes regarding extraction (logger #'s that were missed, ballast numbers missed, retention marking needed, etc.) and especially note any additional information that needs to be obtained when re-visited.
 - Make sure the Lighting Logger Installation form is present and filled out. Note the quantity and of each type of logger installed and use this as a check when you leave the site. For some site, this page may also contain notes on actions that need to be taken when the loggers are extracted. For example, sometimes the logger numbers were not recorded correctly.
 - Review the lighting measure sheets for the type of fixtures the loggers were installed
 on. Review the sketch to see where the loggers were placed. Check the ceiling
 height recorded on the lighting measure sheets to determine if a lift or high ladder
- 2. **Prep a logger storage bag.** Prepare a zip-lock or paper bag for storage of the loggers after retrieval. Write the SiteID, date, and surveyor's initials on both sides of a card or piece of paper and place in the bag (paper bag can also write on the outside of the bag). Please use the full SiteID, that is, use PGE_663621371 not just 663621371.

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- 3. **Site visit: Record extraction date and initials.** Record the date of the site visit and surveyor's initials in the "**Extraction Date**" and "**Extraction Initials**" field. Hard scheduling the logger pick-up for a specific day is highly recommended.
 - Multiple Extractions/Alternate Extraction Dates. Multiple extractions are often required for lodging sites when some guest rooms cannot be accessed. In these situations, the "alternate extraction date" for these loggers should be recorded at the bottom of the column for that logger (see revised/latest logger installation form).
- 4. **Observe the logger <u>before</u>** removing it; Is it still in position and functional? Observe the logger and make sure it is still *functioning correctly*. If the lights are off, turn them on briefly to see if the "lights on" indicator responds (sun symbol). If the lights are on when you arrive, make sure the appropriate indicator is shown, then turn the lights off to make sure the off indicator responds accordingly.
 - Low-Use Test for loggers where lights are off and show <=5% On time. If the lights in a logged fixture are off when you arrive and the LED display indicates a percent on time of 5% or less, then a test is needed to show that the logger is working and was adjusted correctly. Before removing these loggers from the fixture, turn the lights on and leave them on for at least a minute, or if possible, turn on the lights and leave them on, and extract these loggers last. This will provide a small test period that can be reviewed during the logger QC process. Extraction comment for the test should be something like "Light off, test done, logger OK" or "light on, logger OK, no test needed".</p>
 - Photograph any unique situations. If the loggers are damaged or found in a unique condition that should be avoided in future installations, take a photo so that it can be shared with other field staff and/or included in the field procedures. Figure E-12 is an example of a logger installed in a closed fixture and overheated or melted, or hanging by a single magnet, or fallen down within a closed fixture. Turn in those photos with the loggers.

Figure E-12: Melted Lighting Logger



5. "Logger intact?" and "Extraction Comments". If loggers have been moved or fallen or have obviously been tampered with, then circle "N" in the "Logger Intact?" field of the survey form, and describe the situation in the "Extraction Comments" block. If the logger appears to be functioning correctly and is as originally placed, then circle "Y" for "Logger Intact". Loggers that cannot be found are recorded as "L" for Lost.

Example extraction comment for an intact, low % on-time logger: Could be something like "4.5% On Lights Off, Test Done, Logger OK" which translates to the lights were off when the space was entered, the lights were flipped on and left on to perform the low-use test, and the logger sensitivity was checked to make sure that the sun symbol showed when the light was turned on and disappeared when the light was turned off (or the sensor was covered by your finger).

Other instructions and issues for this section of the survey form include:

- Light is Off. If the light is off when you enter the space where the logger is installed, then you should note that in the extraction comments (or in general comments and reference the logger ID).
- Logger Sensitivity Check. Again, this should be done before you remove the logger from the fixture, and it is especially important for loggers with low % on-times, and this applies for both LL and CT loggers. If the lights are on, then the sun symbol should be displayed and it should disappear when the lights are turned off or the sensor is covered. This would get a "logger OK" comment in the extraction comments field. If the lights are off, then turn the lights on and see if the sun symbol is displayed. If the sun symbol is not displayed, then either the logger sensitivity was not set correctly, or there is some other issue with the logger. Check the current sensitivity adjustment (and the logger can probably be removed from the lighting fixture for this test. Is it turned all the way to the minimum setting or is the sensitivity adjustment stripped out (turns and doesn't hit a stop)? If the logger is turned to the minimum setting, note this in the extraction comments because the data cannot be used (there will probably not be any data to use). If the logger was instead turned up to maximum sensitivity and pointed to a light source and still not registering, then it should be noted as a "BAD logger/insensitive" in extractions comments, and explained in general comments as well.
- Record the % On Time on the display. In the extraction comments block, record the percent on time displayed on the logger. If 0 % on time is displayed, perform the test described previously for lights that are off. If 0% is displayed and the lights are on, note this discrepancy in the extraction comments as well (the logger sensitivity was probably not correctly set).

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- Lost/Missing and Pending loggers need an explanation! In some cases it may not be possible to locate all of the loggers, especially in lodging guest rooms where they can easily be removed by hotel guests or cleaning staff. Sometimes loggers can fall out of open fixtures where they are picked up by staff. In any case, you should ask the site contact about any loggers that appear to be missing before recording them as lost. If the problem is that they cannot be located then call the field surveyor who did the installation to see if he can provide additional information. If they cannot be located, then please record a note in the General Comments form to explain what you did to try to locate the lost loggers.
- Flickering or burnt-out lamps. If the linear fluorescent lamp being monitored by the logger is flickering or burnt-out, then that should be noted in the extraction comments.
- 6. **Remove loggers.** Remove each logger and adjust the sensitivity to its least sensitive setting (all the way to the "-" sign), as confirmed by the sun indicator. Place in the marked zip-lock bag so that loggers don't get separated. *This is especially important if you are picking up loggers from multiple sites in a single day.* The loggers should always be bagged and not just left loose. **Do NOT push the reset button!** This will erase all of the recorded data. Use pliers to remove any magnets that separate from the logger and remain attached to the lighting fixture.
- 7. **Before leaving the site, check quantities** (="No loggers left behind"). Do a quick quantity by type count and make sure that you have all of the loggers that were installed. These totals by logger type will be needed for the daily site status report that is emailed to Itron. Lost loggers should also be noted in the daily status report.
- 8. **Tag updated sections of the survey form.** Use post-its and highlighters to indicate the portions of the survey form that have been updated. Updates will typically be limited to the logger installation form, the general comments page, the spot watt measurement form, and possibly the photo page, but may affect other pages as well.
- 9. **Return loggers and survey forms to Itron.** Extracted loggers and updated survey forms will be returned to Itron for downloading.
- 10. **Download the logger data.** Logger downloads will be conducted by trained admin staff, not the onsite surveyors. The admin staff will download and briefly review the .log and .csv files and save in the site's subdirectory on the network using the correct file naming convention Section E.6.1 . Record the "logger time" and "computer time" in the logger extraction comment block or in the respective data fields (two versions of the form). Review the other comments written in the extraction notes that might explain issues observed with the logger data. Update the tracking sheet (or send a status report) to show that the loggers were extracted and how many were extracted.

- Check Extraction Date. An extraction date is <u>critical</u>! If the extraction date is blank
 then follow up with the field person who removed the loggers immediately to obtain
 a date.
- Extraction on multiple dates. If for any reason the loggers at a site are extracted on different dates, then the <u>earliest</u> date should be recorded on the logger installation form as the extraction date, and the <u>later</u> extraction date should be recorded in the Alternate Extraction Date under that logger, as well as noting in General Comments why multiple extractions were required.
- Record Logger vs. Clock time and note differences. If the logger time and clock time are more than 15 minutes different, the logger should be tagged as "BAD". To check the logger time follow the following steps:
 - Open SMARTware 2011 and plug logger into computer
 - Choose Logger > Display Logger Status

This will open up a dialog box showing the current time of the logger.

- **Daylight Savings Time (DST).** DST will be very evident; there will be a roughly 1 hour difference (maybe a few minutes off) between the logger time and computer time, and the installation/extraction period will span a DST event.
- **False DST.** This situation occurs when the surveyor installed loggers after the March DST event that were not resynchronized after DST. When this happened, it was usually only one or two loggers at a site, so it is very easy to detect in that the majority of the other loggers are OK (logger time = computer time) and the installation date is after and typically close to the DST event.
- **Time-Drift Issue.** Some of these loggers will be very noticeably shifted, and not by an hour. This problem is illustrated in the SMARTware graph below.

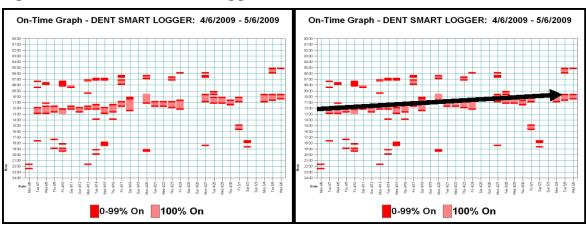


Figure E-13: Illustration of Logger Time-Drift Issue

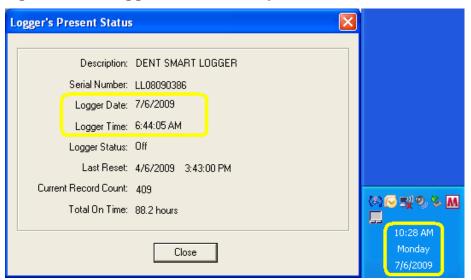


Figure E-14: Logger Time vs. Computer Time

- Year Set to 2001. The date should also be checked. If the Logger Date year is 2001 then write "2001" in the Extraction Comments block. The logger is likely OK, but was not either not synchronized before installation ((Last Reset year is 2001 but month/date other than 1/1) or was cleared at installation (Last Reset = 1/1/2001).
 - **Logger was "Clear"ed instead of reset on site**. The "Logger Reset" date will be 1/1/2001 and the "Data Ends" date will also be 2001. To be used for the analysis, this data will have to be re-sequenced/time-corrected.
 - **Logger was synchronized but not reset upon installation**. The "Logger Reset" date will be different than the installation date (typically will be 1/1/2001 or another 2001 date), but the "Data Ends" date/year will be consistent with the installation/extraction period (2012, 2013, or 2014).
- Loggers with no data, 0%. A logger that shows 0% run-time is not necessarily a BAD logger, since there are many sites where the lighting systems in some areas are not used. To test the logger, turn it all the way back to maximum sensitivity and hold it near a lighting fixture. If the indicator does not light within 2 to 3 feet of a lighting fixture, then it should be marked as BAD.
- Loggers that lost their magnets and fell-off. Re-attach and make sure both magnets
 are secure and check for other data anomalies. If it seems OK, then it can be
 returned to inventory.
- Loggers exposed to too much heat. Loggers that on extraction are found to have been overheated (melted or permanent black LED screen) or reset to 2001should be marked as BAD and placed in the BAD LOGGERS box. If the LED screen is black

but slowly returns to normal (in a couple of hours) the logger is still good and reusable.

- 11. **Scan the survey form.** Admin staff will scan the completed Lighting Logger Installation form and save the PDF on the network drive and place the hardcopy in the file folder.
- 12. **Logger Check-In** (return to inventory for re-use or BAD). Once the data has been successfully downloaded and QCed, the loggers can be checked in and returned to inventory or reset and readied for installation at another site.
 - Good Loggers. These should be returned to inventory and checked into the tracking spreadsheet. In the tracking spreadsheet, record the date that the logger is checked back in and under the "Person Assigned" column change from surveyors initials to "OFFICE".
 - BAD Loggers. A logger will be labeled "Bad" for several reasons. It may have a time-drift issue, may have crushed/melted, or had battery failure. These are also checked into the spreadsheet, but labeled "BAD" with a description of why. The loggers that have a time-drift issue will be returned to DENT. The battery failures will be set aside to have the battery replaced, and the rest will be placed in the "bad logger" box.

E.6.1 Logger Data File Naming Conventions

The Itron viewLoggers tool will be used to review and disposition all logger data. This tool reads the logger data from the *.csv files, so the naming and format must be consistent. Naming conventions for the logger data files are as follows:

- Files must be saved in a subdirectory named for the SiteID.
- Save both the proprietary <u>raw</u> logger data file (*.log,), and the <u>processed</u> transition data file as a *.csv file.
- Both the proprietary and the processed transition data files should have the LoggerID logger type (LL, LC, or CT) and the serial # encoded into file name at the beginning of the file⁴. The format must be: <Serial Number>_<SiteID>.log <Serial Number>_<SiteID>.csv. An example is given below:
 - SiteID: PGE_2584148005
 - LoggerID/Serial Number: LL0807007901
 - Final raw data file name => LL0807007901_ PGE_2584148005.log
 - Final transition data file name => LL0807007901_ PGE_2584148005.csv

Additional characters may be added to the file name if needed by the surveyor, but the LoggerID must always appear first in the file name.

In creating the name, field staff should assure the following rules:

- LL, CT, and LC are capital letters
- There are no spaces in the file name
- There are no extraneous suffixes (e.g., _1, _2, ...)
- In addition, the LoggerID number must be present in the *first line* of the *.csv file itself, as shown in the examples below.

Figure E-15: DENT LL logger⁵ => LL0805097701_PGE2584148005.csv

```
Berial Number: LL08050977,,,

Description: DENT SMART LOGGER,,,

Connected Load: -1.00 KW,,,

Logger Reset: 08/26/08 12:02:02,,,

On-Time Since Reset: 145.6 hrs,,,

8/26/2008,12:02:02 PM,Was ON,1

8/26/2008,12:02:03 PM,Turned OFF,0

8/26/2008,12:02:05 PM,Turned ON,1

8/26/2008,12:05:41 PM,Turned ON,1
```

Figure E-16: DENT CT logger => CT0708001401_PGE2584148005.csv

```
Serial Number: CT07080014,,,
Description: 659980_Unit5,,,
Connected Load: -1.00 KW,,,
Logger Reset: 09/09/08 14:14:01,,,
on-Time Since Reset: 378.0 hrs,,,
9/9/2008,2:14:01 PM, was ON,1
9/9/2008,2:15:16 PM, Turned OFF,0
9/12/2008,3:39:27 PM, Turned ON,1
9/13/2008,12:11:26 AM, Turned OFF,0
9/13/2008,6:03:11 PM. Turned ON,1
```

- NOTE: The viewLoggers tool does not use the file names, but instead relies on the text in the first line of the csv file to determine what type of logger it is, and then reads the LoggerID accordingly from the file. Examples:
 - For DENT LL and CT TOU Loggers: If first line starts with *Serial Number*.... then it is a DENT LL or CT logger. The first two characters denote the logger type (LL or CT) and the next eight numbers are a unique number. This serial number is <u>hardwired</u> into the logger, and the default *.log file saved by SmartWare is named as S/N01.log (as shown in the examples above).

_

The file name for DENT CT and LL loggers is actually the logger type (CT or LL), the serial number, and then an "01" is tacked on to the end when the data is downloaded from the SmartWare software.

E.7 Panel Metering Guidelines

E.7.1 Objective

To safely, accurately, and efficiently monitor and measure lighting usage within electrical panels for commercial high bay applications.

E.7.2 Overview

High bay lighting (considered as more than 12 feet in height for this document) presents its own challenges for monitoring lighting usage. For these applications, monitoring within the electrical panel, compared to the fixture level, provides a solution to these challenges and can be faster, safer, and allow for more accurate data acquisition. Panel metering addresses the following challenges associated with evaluating high bay lighting:

- 1. Fixtures may not be physically accessible for the installation of DENT time of use (TOU) loggers within the fixture due to their increased fixture height. In this case, the only option for monitoring lighting usage is in the electrical panel
- 2. If fixtures are accessible, extra time is needed onsite for the use of ladders and lifts to access the fixtures, also increasing the risk for injury
- 3. Time onsite is further increased when fixtures are controlled with integrated occupancy sensors, as each logger installed in a fixture only represents that one fixture

The onsite surveyor will determine the best logging approach for each high bay site, taking into account safety, fixture accessibility, time, and accuracy of data.

The remainder of this document focuses on the equipment, procedures, and forms used to assess and perform panel metering in high bay applications.

E.7.3 Equipment

Three categories of equipment are needed for the metering of commercial electric panels: Safety, Measurement, and Metering equipment. Each of these is described in detail below:

Safety Equipment

Safety is the number one priority onsite and to safely meter in commercial electrical panels you must have the appropriate safety equipment. Itron currently follows the 2009 NFPA 70E standards for safety and each onsite surveyor conducing panel metering has attended and

completed training on the 2009 NFPA 70E standards. Each surveyor has also gone through onsite training and has been deemed a qualified person by senior engineering staff.

Below is an itemized list of the safety equipment required for these metering efforts:

NOTE: Fire Resistant (FR), Hazard Category (HC), and equipment ratings vary with application and the 2009 NFPA 70E standards should be used to determine equipment needs and safety ratings.

- 1. Insulated mat
- 2. Insulated shoes
- 3. Fire resistant pants
- 4. Fire resistant jacket
- 5. Protective glasses
- 6. Balaclava (sock hood)
- 7. Ear plugs
- 8. Face shield
- 9. Insulated gloves
- 10. Insulated hand tools

Measurement Equipment

1. Digital multimeter with current transducer to measure watts, power factor, voltage, and amperage

Figure E-17: Digital Multimeter with Current Transducer



Metering Equipment

Itron uses DentCT and HOBO data loggers (discussed in Section E.2.1 above) as the two metering options for electric panel metering. Each option is specific to different lighting configurations seen onsite. These configurations and their associated metering methods are discussed later below.

E.7.4 Procedures

Perform Pre-visit Calling Site Assessment

While the CATI center will make the initial contact with customers, it is the responsibility of the field technician to arrange the site visit and gather all pre-site visit information before going onsite. The questions in Figure E-18 are to be asked when scheduling a site visit to pre-assess the rebated technologies, options for logging and any site requirements the host may have.

Figure E-18: Panel Pre-Visit Site Contact Questions

	Pre-visit Site Contact Questions		
1	What is the approximate height of the rebated lighting (ft)?		
2	In what areas are the rebated high bay fixtures or lights installed (describe all that apply)		
3	Are there any skylights in these areas (circle one)? Yes No		
4	Are the high bay fixtures accessible and if so, how? Yes No ☐ Ladders ☐ Lifts ☐ Other		
5	How are the rebated high bay fixtures/lights controlled (select all that apply)? Manual Switch Breaker Int. Occ. Sensor Occ. Sensor Photocell EMS Always on 24/7		
6	Are there any protocols we need to follow onsite as we may be accessing and installing loggers within the fixtures or electrical panels? (circle one)? Yes No If Yes, describe all that apply?		
7	Will we be able to turn high bay lights ON and OFF to verify the connected circuits (circle one)? Yes		

Using the answers to the pre-site visit questions the surveyor will visit the site aware of accessibility, onsite requirements, and logging strategies. The technician will also estimate the type of loggers (DENT CT and/or HOBO), number of loggers, and number of HOBO CTs needed to capture the rebated lighting usage.

Complete Onsite Verification of Measures

The first order of action onsite is to complete the onsite verification of all measures and forms. **NOTE:** If rebated low bay measures also exist onsite, perform the necessary installation of

<u>DENT loggers for the low bay fixtures before attempting high bay panel logging.</u> Only after the site verification is complete (site sketch, activity areas, schedules, etc.) shall the surveyor move to the logging of rebated high bay fixtures.

Locate High Bay Lighting and Investigate the Best Logging Method

The following high bay logging screening questions in Figure E-19 should be asked onsite to investigate the best method for monitoring the high bay lighting. As a default, first screen for monitoring within the electrical panel and if this option is not available, screen for monitoring at the fixture with DENT TOU loggers. If HOBO, DENT CT and DENT LL logging are not feasible, the high bay lighting will only be verified and no metering will be performed.

Figure E-19: Screening for Panel Monitoring

Screening for Panel Monitoring:					
1. Are the electrical panels accessible, and will the customer allow you to get into them? (circle one)		Yes	No		
2. Are the electrical panels clean and safe to work with? (circle one)		Yes	No		
If Q1 or Q2 = NO:	You cannot conduct any metering at the panel. Do not move on to Q3.				
3. Is either true: A) the lighting is 277V; or B) you can trace all wiring from the Point-of-Control to the breaker Circuit? (circle one)		Yes	No		
4. Will the customer allow you to switch lights ON and OFF throughout the business for several minutes at a time? (circle one)		Yes	No		
5. Through the combination of amp measurements <u>AND</u> site contact confidence, can you identify and relate the number of rebated fixtures associated with each lighting circuit? (circle one)		Yes	No		
If Q3, Q4, or Q5 = YES:	You may conduct metering at the panel.				

Screening for Fixture Monitoring:				
1. Are the high bay lamps accessible by ladder or lift? (circle one)		Yes	No	
If Q1 = NO:	You cannot conduct any metering at the fixture. Do not move on to Q2.			
2. Will the customer allow you to switch lights on and off throughout the business for several minutes at a time? (circle one)			No	
If Q2 = YES:	You may conduct metering at the fixture, depending on the level of confidence in the accuracy of assumptions.			

Identify and Test Each Lighting Circuit and Confirm Number of Fixtures per Circuit

The overall intent of testing the lighting ON and OFF is to determine the number of fixtures controlled by each circuit. As we are installing loggers on a circuit, we need to know the number of fixtures that circuit controls and this information will be recorded on the general site sketch with clear distinctions of which fixtures are associated with each breaker. Each high bay lighting circuit must be tested ON and OFF at the circuit breaker, not at the walls switches, as there may

be a discontinuity between the fixtures controlled by the circuit breaker and those controlled by the associated wall switch. Logging should only be performed on a circuit that can be turned ON and OFF at the breaker/contactor level.

Determine the Circuit Configuration Codes (CCC) and Logging Method

After testing each lighting circuit and confirming the number of fixtures controlled by each circuit, we need to qualify and record the configuration type of the circuits, as different configurations require different logging approaches. The areas in which the rebated lights exist along with the numerous ways they can be controlled are all factors that must be considered as each combination of scenarios may yield a different logging approach. The Circuit Configuration Code Tables (CCC), seen in Figure E-20 and Figure E-21 below, outline the different circuit configuration types and associates each type with the appropriate logging method to be used. The first table below is used for lighting fixtures that are physically controlled by the customer at the wall switch level. The second table is for lighting controlled by the customer at the breaker/contractor, and both provide scenarios for integrated occupancy sensors.

Figure E-20: Circuit Configuration Code Tables (CCC)

Circuit Configuration Codes (CCC): Wall Switch Controlled

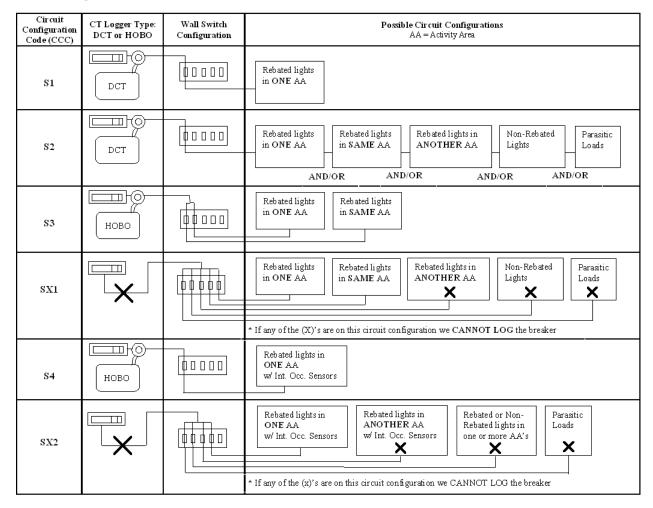
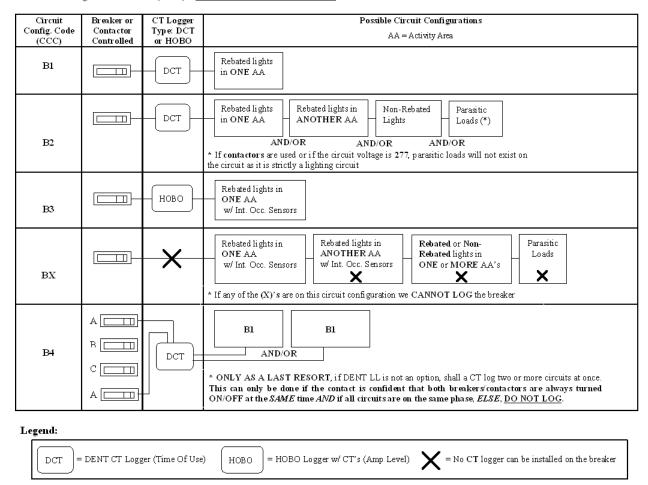


Figure E-21: Circuit Configuration Code Tables (CCC)

Circuit Configuration Codes (CCC): Breaker/Contactor Controlled



Complete: Panel Meter – Circuit Spot Measurement Table (CSMT)

After identifying the Circuit Configuration Codes and determining the logging method to use, the surveyor will then fill out the *Panel Meter – Circuit Spot Measurement Table (CSMT)*. This table is for reference only and acts as the first stepping stone to completing the final form that will be data entered, the *Final Spot Measurement and Logging Form* seen in Figure E-25 below. The *CSMT* tracks each spot measurement and allows for the cross checking of each circuit, comparing the expected nominal values to measured values, and determining if the data received from each logger is representative of the fixtures stated. The *CSMT* is seen in Figure E-22 below.

Figure E-22: Panel Meter – Circuit Spot Measurement Table (CSMT)

Panel Meter - Circuit Spot Measurement Table:

Note 1: Fill this table out, then fill out the Consolidated Logging Circuit Table below.

Circuit Label #	Phase	# Fixtures Controlled (DD)	# Lamps per Fixture (EE)	Watts per Lamp (FF)	# Lamps Burnt Out (GG)	(DD*EE*FF) -(FF*GG) Calc. Circuit Watts (HH)	Measured Circuit Watts (MW)	PF (JJ)	Measured Volts (<i>KK</i>)	Measured Amps (LL)	Measured Parasistic Watts (MM)	Comments

The main items to compare are columns "II" and "JJ" as this will confirm if the number of fixtures we think the circuit represents is actually representative, as well as if our assumptions on lamp wattage is correct. For example, if we tested a circuit ON and OFF and think it controls 5 fixtures, with 6 lamps per fixture, at 32 watts per fixture, we would expect to measure on the circuit (at full output), 5*6*32 = 960 watts, plus or minus ten percent due to ballast factor. If we actually measured around 750 watts, we know our counts were wrong, other parasitic loads exist on the circuit, or our estimated lamp wattage was incorrect. In this case we might think that our estimated lamp wattage was incorrect as if the lamp wattage was 25 watts, our calculated nominal circuit watts (II) would be 750, matching our measured value of 750 watts (JJ). After filling out this table, trends usually appear between the calculated and measured values across the circuits, one being that the measured wattage is usually 5-10% higher than the calculated (mostly due to ballast factor). Lastly columns "DD – MM" will be associated to columns "D-M" in the **Panel Meter – Consolidated Logging Circuit Table (CLCT)** discussed further below.

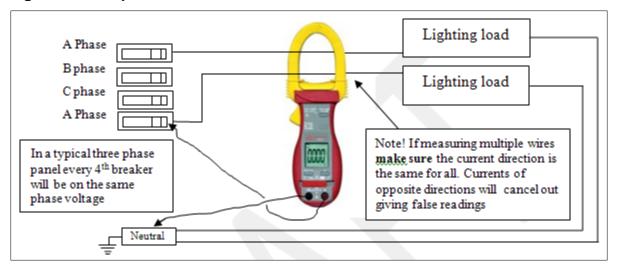
How To Conduct Spot Measurements

- 1. Make sure the lighting is on for at least 10 minutes before taking a reading. For Metal Halide and other arc type lamps the internal arc must be on steady before starting the count to 10 minutes.
- 2. Set meter switch to power setting.
- 3. Clamp meter around the conductor or conductors to be measured. More than one conductor can be measured as long as all are the same AC phase electrically.
- 4. Attach the black or reference lead to neutral. If neutral is not safely accessible use ground instead, but neutral is preferred for greater accuracy.
- 5. Attach the red or hot lead to the exposed conductor, such as on the breaker screw.
- 6. Read the kW or Watts and the power factor and record on the survey form. The meter is self-ranging. Power factor is always between 0.5 and 1.

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- 7. If the reading varies allow it to stabilize within 10% of a nominal reading then take an average.
- 8. If the reading is negative either flip the current clamp or the meter leads. The meter is accurate for either direction so an absolute value can be taken here.
- 9. Place the slider to the "V-A Auto" setting and record the amperage of the circuit.
- 10. In the "V-A Auto" setting, press the "Select" button twice and record the voltage from the conductor to neutral or ground.

Figure E-23: Spot Measurements



Common system voltages from a conductor to neutral:

- 105 to 130 volts is usually seen in smaller commercial and office buildings from conductor to neutral or ground. Voltage phase to phase is around 202 to 210 if a 3 phase panel.
- 220 volts to ground is not used often. It's usually in smaller commercial and office buildings.
- 267 to 280 volts is often used in larger office buildings and industrial facilities. Voltage phase to phase is around 470 to 490 Volts.

Complete: Panel Meter – Consolidated Logging Circuit Table (CLCT)

The *Panel Meter - Consolidated Logging Circuit Table (CLCT)*, seen in Figure E-24 below, is also for reference only and is the second stepping stone to completing the *Final Spot Measurement and Logging Form* seen in Figure E-25 below. The *CLCT* is used to assign loggers and channels to circuits. This table is the consolidated version of the *CSMT*, as multiple

items in the *CSMT* can be rolled together and assigned to a single current transducer. As previously mentioned, columns "DD – MM" from the *CSMT* will be combined, when appropriate, and entered into columns "D-M" of the *CLCT*. Typically no more than two line items in the *CSMT* will be consolidated into one item on the *CSMT* as each circuit is usually controlled by a 20 amp breaker, and the CTV-B current transducers are rated at 50 amps.

Figure E-24: Consolidated Logging Circuit Table

Panel Meter – Consolidated Logging Circuit Table:

	Prom table above DCT or HOBO				(HOBO)		From applicable fields in table above Prom applicable fields in table above								ve	
Item #	<u>Circ</u> Label		Phase	Logger Type	Logger ID	CT Channel #	Total Fixtures Controlled	# Lamps per Fixture	Watts per Lamp	# Lamps Burnt Out	Sum Circuit Watts	Sum Meas. Watts	Avg. PF	Avg. Meas. Volts	Sum Meas. Am p	Sum Parasitic Watts
(A)	(B))	(9)	(X)	(P)	(Z)	(D)	(E)	(F)	(G)	(H)	(I)	(3)	(K)	(L)	(M)

Complete: Panel Meter - Final Spot Measurement and Logging Form

This is the final panel metering form to be data entered, and summaries all of the rebated measures and the lighting loggers associated to each measure and configuration. Many fields on this form are directly copied from the *CLCT*, and each row on the *CLCT* will be shown as a column on the *Panel Meter – Final Spot Measurement and Logging Form*. Fields "A, B, C, X, Y, Z, D, E, F, G, H, I, J, K, L, and M" will be copied from the *CLCT* and inserted on to this final form. The *Panel Meter – Final Spot Measurement and Logging Form* is shown in Figure E-25 below.

Figure E-25: Panel Meter – Final Spot Measurement and Logging Form

Panel Meter – Final Spot Measurement and Logging

	Logging		
			I
_	A B C	A B C	A B C
			•
Circuit			
(CCC)			
right)			
√Off)?	У И	И У	У И
cuit(s)	*		
(D)			
(E)			
(F)			
(G)			
(H)			
Ø	G N	G N	G N
	l		
	% V N	0/ 1/ NI	% Y N
11070:	70 1 14	70 1 19	70 1 14
morrit?	V 11 DV	II NI DII	V N DV
			Y N DK
	C V NA	C V NA	C V NA
(M)			
(X)	DCT H	DCT H	DCT H
(Y)			
(Z)			
ogger:			
annel:			
p size			
nments			
	(A) (Ode(s) (Basis (Cable) (B) (C) (CTC) (Circuit (CCC) (CCC	(A) (A) (B) (C) (B) (C) (C)	(A) Ode(s) Easis Cable CC CC CC CC CC CC CC

Install Loggers and Current Transducers

Safety around electrical panels is CRITICAL! Please refer to and follow all safety procedures when working in or around electrical panels (Section A.7 Onsite Safety).

Once the *Panel Meter – Final Spot Measurement and Logging Form* is filled out, the loggers are ready to be installed as we now know which loggers and channels are going to be logging which circuits, and have measured values associated with each of those circuits logged. The DENT CT loggers and/or the CTV-B CTs associated with the HOBO loggers are placed on individual circuits at the contactor or breaker.

HOBO Logger and CTV-B Installation

The I-bar of the CTV's can be hinged open in order to install the CTV around an individual wire or multiple wires if on the same phase. Be sure that the current you are measuring will never exceed the maximum range of the CTV, this would corrupt the data on all channels. Below are the steps for installing the CTVs and HOBO logger:

- 1. Rotate the CTV I-bar open
- 2. Place the wire or wires from the branch circuit(s) in the CTV window
- 3. Snap the I-bar closed
- 4. Slide circuits toward the center of the CTV for most accurate readings
- 5. Insert the CTV lead into the HOBO logger channel assigned

A light (LED) on the side of the HOBO logger confirms logger operation. The light should blink once every 4 or 8 seconds. If the logger was launched the LED will flash every four seconds. If the LED flashes every eight seconds the logger is not launched. Double check that each logger LED blinks every four seconds before closing up the electrical panel. If the light is not blinking, or it is blinking in a different pattern, re-launch the logger to ensure proper operation.

DENT CT Logger Installation

The CT of the logger is pressed open in order to wrap around an individual wire or multiple wires if on the same phase. Be sure that the current you are measuring will never exceed the maximum range of the CT, this would corrupt the data on all channels.

- 1. Press the CT clamp open
- 2. Place the CT clamp around the wire or wires from the branch circuit(s)
- 3. Close the CT clamp and slide circuits toward the center for most accurate readings
- 4. Calibrate the sensitivity of the logger by turning the circuit ON and OFF, making sure that the logger only registers that the fixtures are on a minimum amount of current is seen

Extracting Panel Loggers

Before visiting a site to extract loggers, the type of lighting system and loggers installed must be reviewed. Ideally the surveyor who did the original installation will also do the retrieval but this may not always be the case. The process should be as follows:

- 1. *Prior to retrieval site visit*, obtain a copy of the Lighting Logger Installation form that was completed when the loggers were installed. The copy can be made from the surveyor's original hardcopy or downloaded from the online tool. In addition, prepare a zip-lock bag for storage of the loggers after retrieval. Write the SiteID, date, and surveyor's initials on both sides of a card or piece of paper and place in the bag.
- 2. On each logger form, record the date and time that the logger was removed.
- 3. Observe the logger and make sure it is still *functioning correctly*. For DENT CT loggers, if the lights are off, turn them on briefly to see if the "lights on" indicator responds (sun symbol or green LED on TOU loggers). For Amp level loggers (HOBO U12-006), note if the red logging "ON" LED is blinking. If not, note as the logging has stopped.
- 4. Remove each logger. For DENT CT loggers, adjust the sensitivity to its minimum (least sensitive) setting (all the way to the "-" sign). Place in the marked zip-lock bag, so that loggers do not get separated. This is especially important if you are picking up loggers from multiple sites in a single day.
- 5. Record the logger disposition and repeat this process for all loggers at the site.
- 6. Record any information that was missed during the logger installation site visit.

Onsite Safety

Safety is the number one priority onsite and all safety precautions should be followed. Below is a list of safety precautions to check while onsite.

What are this facility's potential safety hazards (equipment, water, etc.)?
Who do I contact in case of an accident or injury?
Where is the working panel power disconnect?
Where are the entrances and exits closest to the working panel?
Are there obstructions or doors that may interfere with access safety in the panel?
Are there any forms of backup power or SCADA associated with the working panel?
Rate the quality of the working panel (dust, corrosion, wiring) [1-5 high quality]
Brush the back of your hand across panel before opening it for shock detection.

Nonresidential Downstream Lighting Impact Evaluation Report

Open panel door away from you to avoid arc flash to the body and head.
Wear appropriately rated insulated gloves.
Wear appropriate safety goggles or face shield.
Test for loose wires that may come free when working in the panel.
Measure voltage of panel to assess the shock hazard. Volts:

High bay lighting is often in industrial environments that present special hazards. Keep that in mind! Know what the special precautions are!

- Forklift trucks. High bay lighting often tends to be located in factories and warehouses. Forklifts have right of way. Always look both ways before entering an aisle.
- **Trip hazards**. When doing lighting surveys the in high bay situations the surveyor is often looking up and not where they are going. Always look ahead some distance before walking while looking up to pre-observe if any trip hazards exist. Only walk the distance and path you have looked ahead too. When going down a new path take a second to refresh your view.
- **Safety apparel**. Electrical safety apparel may be required by the site and may include hard hats, steel toe shoes, goggles, long sleeve shirts, or flame retardant clothing. Electrical safety wear should meet or exceed 2009 NFPA 70E requirements.

Appendix F

Lighting Logger Data Validation Process

F.1 Overview

As part of the CPUC Nonresidential Downstream Lighting Impact Evaluation, over 4,000 lighting loggers were installed and processed. To ensure the quality of the data logged for this project, each logger was reviewed by qualified staff to ensure the loggers were recording information accurately. Three different types of loggers were installed throughout this evaluation process. DENT Lighting loggers (Dent LL), which represent the vast majority of loggers installed, record lighting ON/OFF transitional data using a built in photocell and are typically installed interior to the lighting fixtures. DENT Current loggers (Dent CT) also record lighting ON/OFF transitional data but unlike the Dent LL, records usage based on the presence of current flowing through a circuit. These loggers are typically installed within electric panels to monitor high bay lighting controlled by switches or circuit breakers, but can also be used to monitor plug in fixtures. The third logger type installed is HOBO loggers. Hobo loggers are also installed in electric panels, record continuous (not transitional) data, and are configured to measure the level of current flowing through a lighting circuit in five minute intervals. This logger is also used to monitor high bay lighting however it is used specifically for fixtures with integrated occupancy sensors as amperage levels on a circuit change in relation to each fixture's operation. This appendix describes the systems used to review and QC the Dent and HOBO loggers (4000+) so that each logger received a hands-on look at what it recorded in the field.

As both Dent loggers (LL and CT) record transitional data, a system named viewLoggers was used to evaluate each logger's data. Section F.4 below presents an overview of the viewLoggers system, showing the various components and how they were brought together to allow each evaluator, while reviewing the site, to have easy access to all the pertinent information necessary to make an informed decision about the validity of the data logged.

The HOBO logger data was reviewed in much the same way as the DENT loggers, however as it does not record transitional data, the viewLoggers system was not used. Instead a process referred to as HOBO QC was used and is further discussed in Section F.5.

F.2 Checking the Quality of the Logger Data

Why is it necessary to check the quality of the logger data? Each of the three types of loggers used in the study come with their own set of limitations and can be prone to problems if proper measures aren't taken to ensure their data quality. The Dent LL loggers have the highest variation for data quality, followed by the HOBO, then the Dent CT. Since the Dent LL loggers use a photo sensor to record changes in lighting levels, many factors need to be considered to ensure that it is only picking up the lumens from the lamp or lamps intended. Things like the placement of the logger, sensitivity of the photocell, and environmental conditions are critical to understand. Any outside lighting source can adversely affect the information recorded. In addition, setting the sensitivity of the photocell is an art, not a science. With the HOBO loggers, spot measurements with a digital multimeter are needed to confirm the correct circuit is being logged as well as to identify any parasitic loads on the circuit that could provide false lighting data. The Dent CT has the least room for error as setting the sensitivity of the current transducer is simple, unlike the Dent LL where you have also have to adjust for ambient light. These and many other issues are evaluated during the process of reviewing the data recorded by the loggers.

Before the review process begins, there are several steps taken to account for the multitude of issues that can arise on-site as part of using these types of lighting logger equipment. Onsite procedures, surveyor training, and the survey form itself were all designed to minimize logger data error and maximize each logger' quality. Some examples of steps taken to ensure good logger data are installing two loggers on the same circuit but in different fixtures. This ensures that if one logger fails the other logger will capture the correct lighting usage of that circuit. The surveyors are also trained to install and calibrate loggers to ensure that the logger accurately captures the changes in the state of the lighting, rather than changes in the ambient lighting due to other light sources or the amount of daylight entering the room.

The persons evaluating the data are trained to recognize these problems and other types of errors in an effort to ensure the data logged represents the actual usage of the lighting. Once an initial evaluation is performed, the evaluator dispositions the logger with written comments and indicators as to the quality of the data. It is this function that viewLoggers and HOBO QC facilitates. The viewLoggers tool is used to view graphically and numerically the data represented by the logger. ViewLoggers also makes available the raw data, survey form, and photos taken at each site. For HOBO QC, the logger data is also viewed graphically with contextual logger and site information available to correctly assess each logger. Finally, on-site and phone survey data are also made available to help facilitate the process of determining whether or not the data that were recorded met expectations for the type of area in which the lighting was installed.

F.3 The Process

Behind every lighting logger is an entire sample design/ phone survey/on-site survey process that must be managed and performed. The steps in this process include the following:

- Sample design was created using information collected from the IOUs about the programs in which they were involved.
- Phone surveys were performed to collect preliminary information about the lighting purchased and/or installed at the site.
- Sites were recruited to allow the surveyors to perform the installations.
- A survey was performed on-site to collect information about the actual state of the lighting found and about site characteristics as well.
- Loggers were installed, for an average of 7 months, in order to collect lighting usage data.
- The logger data were downloaded for evaluation and analysis.

The phone survey data is retrieved using a CATI system and hence automatically entered into a machine readable form. The on-site survey data are collected using paper forms and must be data entered. A different system was developed to facilitate the data entry process using Microsoft Access as the data store. The logger data were downloaded into files stored on a file system, then cataloged and stored with their respective site data, along with photos and survey forms to make a complete package of original data to support the analysis process. Only then was it possible to load the data into viewLoggers and HOBO QC and start reviewing the actual data logged. As mentioned before, the tools bring together all the information mentioned above so the evaluator has, at their fingertips, everything needed to understand the site, area, and lighting equipment being logged. The next sections go into detail about how viewLoggers and HOBO QC present these data for review. Figure F-1 below shows examples of a Dent LL and installation, Figure F-2 shows a Dent CT and installation, and Figure F-3 shows a HOBO logger and installation.

Figure F-1: Photos of Dent LL and Installation



Figure F-2: Photos of Dent CT and Installation



Figure F-3: Photos of HOBO Logger Installation



F.4 viewLoggers

viewLoggers is a program that makes easy access to the logger data files for review and quality control (QC). The software is written using Microsoft's Visual Studio and C#.NET. Some third party tools were also utilized for graphics and the user interface.

In this section we discuss various attributes of the software and show how the tool made the quality control process accessible enough as to allow the review of over 4,000 loggers in such a short period of time.

F.4.1 The Control Window

The Control Window is shown in Figure F-4. This is the opening window and controls all the processes available in the software. A database of files supplies the list of loggers for evaluation. The Control Window allows the evaluator access to all the loggers available for QC at a given site. By selecting a site identifier in the upper right-hand corner, all loggers for which there are data files on the drive are selectable in the grid seen on the dialog.

viewLoggers Control Center View Selected Logger Show All Sites Show Sites Not QCed SCE 3000496831 View Hourly Data Batch Bun EvalPhase | UnitID MeterType | DateModified LastReadDate RecordCount DateTimeEntered CSVFileName 10/7/2009 8:27 11/9/2009 4:49 PM SCE_3000496831 PH04 LL08060049 10/7/2009 8:46 .. 10/7/2009 9:47 ... 16 11/9/2009 4:49 PM P:\CPUC\P10 SCE SCE_3000496831 10/7/2009 8:14 .. 10/7/2009 9:13 ... 20 11/9/2009 4:49 PM P:\CPUC\P10 PH04 LL08090061 SCE SCE 3000496831 PH04 LL08090308 10/7/2009 8:15 ... 10/7/2009 9:14 ... 108 11/9/2009 4:49 PM SCE P:\CPUC\P103 SCE_3000496831 PH04 LL08090662 10/7/2009 8:46 ... 10/7/2009 9:45 ... 48 11/9/2009 4:49 PM SCE P:\CPUC\P10 PH04 11/9/2009 4:49 PM P:\CPUC\P10 SCE_3000496831 LL08100113 10/7/2009 8:24 .. 10/7/2009 9:24 . 54 SCE PACPLICAP103 SCE 3000496831 PH04 LL 08100354 2 10/7/2009 8:26 10/7/2009 9:25 164 11/9/2009 4:49 PM SCF LL08100481 SCE 3000496831 PH04 2 10/7/2009 8:23 ... 10/7/2009 9:18 ... 594 11/9/2009 4:49 PM SCE P:\CPUC\P107 SCE_3000496831 PH04 LL08100680 10/7/2009 8:26 ... | 10/7/2009 9:27 ... | 124 11/9/2009 4:49 PM SCE P:\CPUC\P107 2 SCE 3000496831 PH04 P:\CPUC\P103 11.09030324 10/7/2009 8:17 10/7/2009 9:17 138 11/9/2009 4:49 PM SCE Photos Survey Baw Data Weeklu Chart Comparison Chart

Figure F-4: viewLoggers Control Dialog

The evaluator selects each logger one-by-one and reviews the data by viewing the user selectable resources made available by the software. By clicking the checkboxes in the bottom right corner of the dialog, the user can view the resources to aid in the evaluation process. The checkboxes allow the evaluator to open the following items:

- The on-site survey form as an Adobe PDF file.
- The photos taken at the site by the surveyor.
- The raw transition data collected by the logger.
- A weekly chart showing the percent of lighting on per minute by week.
 - Included with this chart are numeric views to the transition data and the number of seconds ON per minute.
- The same weekly chart with an additional view of the data using a Gantt format of the same data.

Each of the above items will be discussed in the following sections. Also available from this dialog is the ability to view the hourly rollup of these data for the entire period of installation, as well as other bells and whistles for batch processing and viewing the available list of loggers in different ways.

F.4.2 QC Analysis Dialog

This dialog is the heart of the logger evaluation process. As seen in Figure F-5 below, this dialog shows all of the pertinent information about the site and information about the area in which the logger was installed. Knowing this information can be very useful when trying to understand the patterns recorded by the logger. The upper part of the screen is populated with data from the onsite survey and shows the following information:

- Site and logger identifiers,
- Backup logger identifier (if installed),
- Business type,
- Total square feet,
- Activity area where logger was installed,
- The schedule number associated with the logger,
- Type of control on the circuit being logged,
- What type of lighting was being logged,
- Status of the logger at time of removal,
- Pertinent dates associated with the installation and removal of the logger, and
- Comments recorded at the time of extraction.

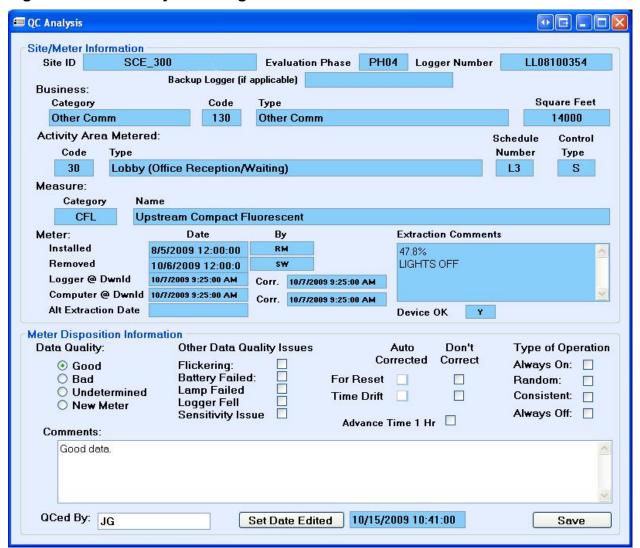


Figure F-5: QC Analysis Dialog

In the bottom third of the dialog are the evaluation controls used to disposition the logger data. It is here that the logger data are marked as usable or not and why. Controls are made available to indicate if the data are considered good or not, what quality issues cause concern or disqualification of the data, whether or not the clock on the logger needed mechanical adjustment, and an indication of the type of operation observed by the evaluator in the data. All these inputs are used during analysis to include or remove logger data where problems are observed.

At the bottom of the dialog are the controls to indicate who evaluated the data and when. The "QCed By" control may contain multiple initials indicating that a logger has undergone further review before a final decision was made about the quality of the data logged. Once the disposition of the data is performed, the quality of the data is indicated by using the controls and/or written comments. With the comments written and the flags set, the Save button is

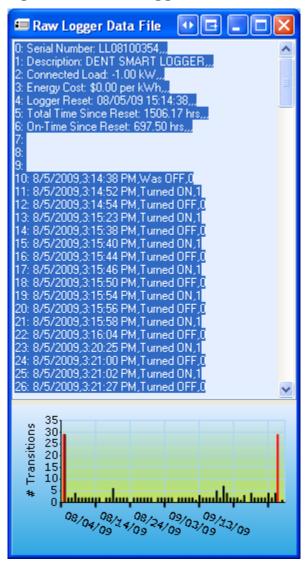
pressed and the data are stored to the database. If the logger is marked as good then the hourly data are calculated and stored to the database as well. If the logger is <u>not</u> marked as good then the disposition and comments are saved but the hourly data are not calculated or stored.

F.4.3 Raw Logger Data File Dialog

In Figure F-6, the contents of the raw logger file is made available to the evaluator. The ability to view these data is invaluable in the process of QCing the logger data. It is here that the actual ON/OFF transitions may be viewed. All the graphical views in the world are no match to seeing the raw data.

The dialog has two parts. The first shows the exact contents of the comma delimited file when the data are stored. Looking at these data can reveal many issues encountered by the logger during the period of installation. The second is a histogram of the number of transitions per day recorded by the logger. The histogram can be very useful for seeing gaps in the data caused by logger failure or for seeing periods of flickering cause by the effects of outside lighting sources on the logger. The two red lines in the histogram indicate the dates of installation and removal. When the hourly data are calculated, only the data between these two dates are stored to the database. It is presumed that the data recorded on or before the date of installation and on or after the date of removal are subject to external effects and not representative of the actual lighting usage at the site.

Figure F-6: Raw Logger Data File Dialog



F.4.4 View Survey Dialog

The View Survey dialog, shown in Figure F-7, makes available the scanned survey form in Adobe PDF format. This gives the evaluator access to all information collected during the onsite survey. Having this information readily available can prove to be invaluable while evaluating the accuracy of the logger data.

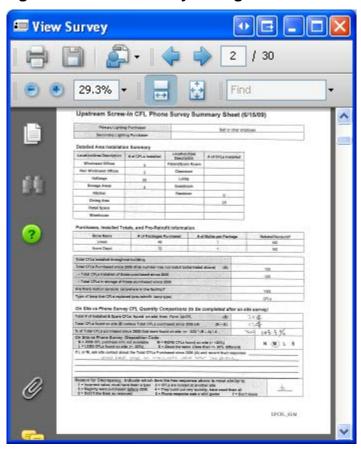


Figure F-7: View Survey Dialog

F.4.5 View Photos Dialog

The View Photos dialog makes available all the photos taken at the site. While Figure F-8 only shows one of the multitudes of pictures taken at the site, the dialog acts much like a browser when opened to full screen—the evaluator can scroll through all the pictures to see where the loggers were placed and under what conditions. When trying to evaluate why a logger experienced frequent transitions, being able to view the area in which the logger was installed is very useful. The pictures can also be expanded to full screen for a closer view, if needed. It should also be mentioned that pictures, like the one in this figure, were very useful when looking at model numbers of CFLs to get wattage, lumens, color rendition, etc. for the lighting analysis.

Figure F-8: View Photos Dialog



F.4.6 Graphically Reviewing the Data

A graph is worth a thousand words with it comes to reviewing logger data. Whilst the tools made available by the logger manufacturers can be quite useful for this purpose, it was decided that a new tool would be even more useful if it brought together all the above mentioned information with a graphical representation of the actual logger data. The dialog, shown in Figure F-9, shows much the same data available in other software. The chart on top shows the percent on per minute for an entire week's period of time. This view may be scrolled using the buttons and calendar control in the upper left-hand corner. If the buttons are used the evaluator can scroll through the data week by week to see the change in the data over time. If a particular day stands out, say in the raw data, the user can use the dropdown to select that day and view a week of data starting on the day in question. In this version of the software, a view of a single day is not available.

In the bottom of the dialog two grids are presented. The bottom left grid shows the transitions recorded by the logger after adjustments have been made by the software. There are four types of adjustments that can be made to the transition data. They are as follows:

- Time correction due to logger reset,
- Time correction due to malfunctioning logger clock,
- Time correction due to Daylight Saving Time, and
- Conversion from analog to transition.

Discussion of these corrections will follow later in section J.5.1. The evaluator can use the grid with the Raw Data View to view the adjustments in the data and, if errors are observed, report these errors to the programming staff for correction. Here, the evaluator can make sure the right procedure was used to save a logger that might otherwise have been discarded.

The bottom right-hand grid shows the actual minute-by-minute data as it was calculated from the transition data. The grid shows the number of seconds the light was on in each minute of the logger's life. No data are excluded from this view. This allows a complete review of all data recorded by the logger. It shows what happened to the logger from the point it was initialized by the surveyor through to the point it was plugged into the computer and downloaded into the file read by viewLoggers. As mentioned above, only the data between the installation and removal dates are used in the analysis, but being able to view the periods outside this time can be invaluable to uncovering problems with the way the logger recorded the transitions.

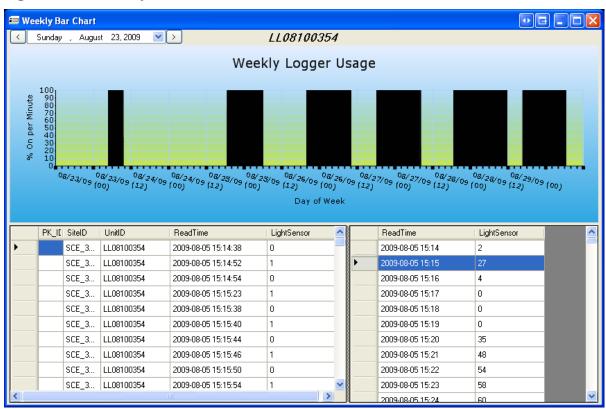


Figure F-9: Weekly Bar Chart

F.4.7 Data Comparison Charts

The charts shown in Figure F-10 are another tool available in viewLoggers for the purposes of reviewing the logger data. While the top chart is identical to the chart in Figure F-9, the Gantt chart in the bottom of this dialog shows these data in a different and interesting way. The interesting point to this chart is that it accentuates the issue of flickering in the data. In the weekly chart, the problem of flickering caused by external influences is washed out because there is so much data compacted in such a small space (i.e., the weekly chart is a bar chart where every bar represents one minute of data for a week).

The Gantt representation of the data shows all actual starts and stops or transitions in the data. It does this by breaking the line for each transition. Note the break in the line on August 19 at around 21:40. Looking at the bar chart above, this transition is not visible but it can be seen in the Gantt representation of the data. In this case, there certainly is no problem with the data and the logger would not be adversely affected by this transition. In the case where there are multiple transitions like this, they are easily identified by the evaluator, which would give reason to inspect the data and comments further to determine if the transitions are legitimate or a cause for alarm. The Gantt chart and the histogram on the Raw Data View have proven to be quite useful as an effective and efficient way to uncover problems with the logger data.

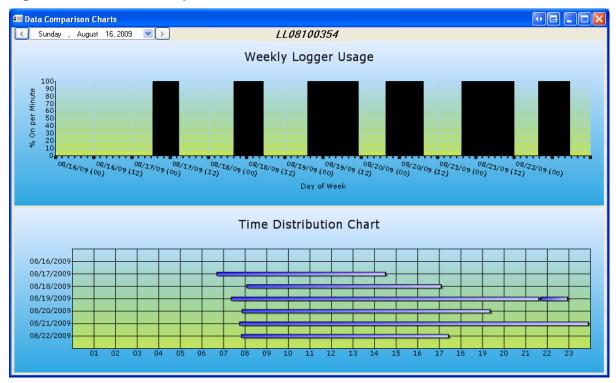


Figure F-10: Data Comparison Charts

F.4.8 Hourly Data Chart

Finally, the Hourly Data View shows the data as it will be used in the analysis. Figure F-11 shows the data represented by this dialog. As the period for the loggers in the study did not exceed six months, it was decided to show the entire data in this chart. In future revisions to the software, this may be enhanced. As it is now, the evaluator can view graphically the percent ON per hour of the period between the installation date and the removal data. Being able to review the data in this format allows for another way of seeing gaps in data collection as well as how regular or irregular the data are on an hourly basis. Seeing this may cause further review of the data or give the reviewer the necessary confidence that the data are representative of the type of building and area where the data were collected.

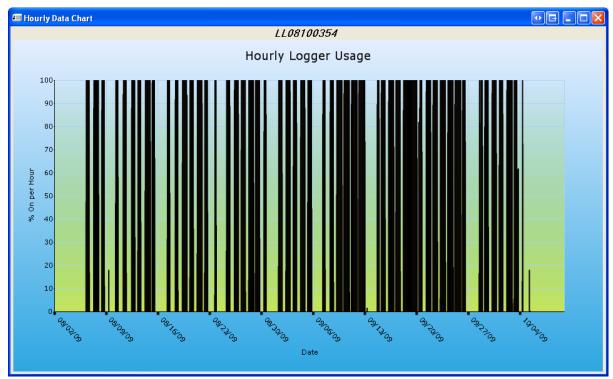


Figure F-11: Hourly Data View Dialog

F.4.9 Dent Data Issues

As mentioned in section J.4.6, there were a few issues with the data that were caused by outside forces. That is to say, they were not issues with the lighting being logged but with the logger itself. In some cases, the logger data and even the loggers needed to be discarded. Case in point: when a logger was placed too close to a heat source, the logger would melt beyond recognition. This happened in cases where the logger was installed on a CFL but the CFL was replaced during the survey period (by the business owner) with an incandescent bulb. The heat generated from the incandescent bulb was too great for the logger.

Other issues included in the list in section J.4.6 are with the clock or with the way the data are recorded by the logger. This section will go through each issue and discuss the corrections needed to save or convert the data for use in the analysis.

F.4.10 Dent Time Issues

There were three basic time issues that needed to be addressed. This section will offer a description of these issues and explain how they are corrected by viewLoggers.

Time Correction Due to Logger Reset

This correction was implemented whenever a logger was reset to factory defaults by mistake. Each logger is plugged into the computer and set to the clock before being taken out to the site. During the installation process, the loggers are tested and adjusted to capture the changes in lighting state from the lamp being logged. Once the adjustments are made, the installer presses the reset button to clear out the extraneous transitions and then places the logger where it belongs to record lighting usage. If the reset button is pressed for too long the logger resets to factory default.

When this problem was discovered, the evaluation team developed a method to adjust the time/date stamps recorded in the logger file using the time of the computer and the time of the logger at the moment the data were downloaded to the computer. It was found that by using this information, an adjustment could be calculated and applied to each transition to bring the time/date stamps to the present time. With no exceptions, this method was successful in making data available for analysis that would otherwise have been lost.

Time Correction Due to Malfunctioning Logger Clocks

This problem was somewhat more problematic. Early on, the team became aware that some loggers had problems with their clocks. The clocks seemed to be cycling either slower or faster than the standard 60 cycles per second. The effect of this was for the logger clocks to either slow down or speed up over time. This seemed like an insurmountable problem until it was discovered that the clocks were changing at predictable rate that was linear in nature. With this knowledge, it was simple to program a correction using the time/date stamps of the logger and the computer at the moment the data were downloaded. The difference in these times was distributed proportionally over time based on the amount of time that had passed since installation. After making this correction, the recorded times were observed to be remarkably accurate. It should be noted that this correction was only applied if the difference between the computer time and the logger time was more than 15 minutes and less than 20 hours. Any difference more than 20 hours was considered not salvageable.

Daylight Saving Time

The loggers used for this analysis do not have the ability to correct for Daylight Saving Time (DST). Because of this, it is necessary to adjust the time/date stamps when time changes occur to set the logger's clock back to clock time. To help facilitate these adjustments, a calendar was created indicating when time changes occurred. Code was then written to recognize the time to which the logger was synced and then adjust the data when a DST boundary was crossed. This adjustment is automatic in viewLoggers.

A secondary issue arose for the loggers that were initialized before DST started but installed after DST was in effect. These loggers were identified and code was written to correct this problem by advancing the clock one hour for all time/date stamps in the transition file. This is controlled by the checkbox on the QC dialog called "Advance Time 1 Hour".

F.5 HOBO Logger Data Validation

HOBO QC is not a program like viewLoggers, it is a term used to describe the process and tools developed that allow each logger to be reviewed in reference of the contextual data surrounding a logger while allowing for the tracking of their final dispositions. This section discusses the details of the HOBO QC tools, the thought process behind validating a logger, and the tracking of their dispositions. To better understand the HOBO QC process it is recommended that the Panel Metering section of Appendix E be reviewed first to become familiar with the HOBO data loggers and the on-site data used to cross-reference the HOBO data.

F.5.1 HOBO_QC_Tracking Workbook

The HOBO QC Tracking Workbook is an excel workbook that populates and tracks all of the HOBO loggers that have been downloaded and are ready for QC. A team of engineers trained in the validation of HOBO data use the workbook to make logger QC assignments, provide final dispositions for loggers, include logger comments, and document all action items needed to process a logger. The workbook has three sections and described below are all the variables present under those sections in the workbook.

Unique Logger Records

1. **Evaluation Phase**, **SiteID**, and **Logger ID** – These are the three variables used to uniquely identify a logger and they are pre-populated to the workbook as HOBO loggers become ready for QC.

Logger and Action Item Status

These fields depict the overall status for each logger in the QC process.

- 1. **QC** Assignment This field is updated with an engineer's initials and designates the engineer assigned to a logger.
- 2. **QC Complete?** (Yes/No) field that provides a final status for each logger
- 3. **Form Action Item Complete?** (Yes/No/NA) field that provides a final status for any action items relating to survey form adjustments that need to be made based on the logger data. For example, a form may show a logger was measuring 8 fixtures while the logger data shows it is measuring 10. The form and database must be updated to represent 10 fixtures logged.
- 4. **SAS Action Item Complete?** (Yes/No/NA) field that provides a final status for any action items relating to code fixes that need to be made to a logger's data. For example, if a circuit is found to have a constant parasitic load of two amps, SAS code needs to be written for the logger to subtract out two amps from each observation.

Final Logger Dispositions and Comments

- 1. **Start Date** QCer enters the date for which the logger began logging. This date is compared to the date the on-site was completed to make sure they match.
- 2. **Adjusted Start Date** This is the date depicting when we want to start using the logger data if a logger for some reason began logging prior to its installation on site.
- 3. **Adjusted Start Date Comments** Comments describing the rationale for the adjusted start date.
- 4. **End Date** QCer enters the date the logger stopped logging.
- 5. **Adjusted End Date** This is the data depicting when we want to cut the data off if the logger continued logging after being extracted from a site.
- 6. **Adjusted End Date Comments** Comments describing the rationale for the adjusted start date.
- 7. **Parasitic Loads?** (Yes/No) field for whether the logger was recording any parasitic loads (any load not related to the rebated lighting). Ideally there are no parasitic loads on a circuit but it can happen, even after being properly tested prior to the logger installation.
- 8. **Parasitic Load Type** (Constant/Variable/NA) field that describes the type of parasitic load on the logger. If the parasitic load is <u>constant</u> then the parasitic data can be easily removed from the data. If the parasitic load is <u>variable</u> the parasitic data cannot be easily removed and may require specific SAS code adjustments or be designated as unusable.

- 9. **Constant Parasitic Amperage** This is filled out with a numeric value if the parasitic load is constant. This value is subtracted from the data to eliminate the parasitic load.
- 10. **Denominator Amps for Analysis** This is a very important numeric value set by the QCer. The QC process was designed to help extract this value from the data. The value represents the maximum amperage for the circuit to be used in the analysis to generate the %ON time for a logger. As the logger records amperage levels, those levels need to be compared to the maximum amperage draw for the rebated lights on the circuit to get a %ON time.
- 11. Max Amps Source This field is used to describe where the maximum amperage value the QCer chose came from. As a logger could be measuring 10 lighting fixtures with integrated occupancy sensors, it's possible that throughout the entire logging period all 10 lights were never on at once. As such, the maximum amperage value to compare the amp levels against to obtain a %ON value does not exist in the data. The source types that can be designated are described below:
 - a. **98% Max** Is the max amperage recorded by the logger in the 98th percentile. This value is generated from code and is used to account for small spikes at circuit start up that may not accurately represent a circuit's steady state maximum amperage draw.
 - b. **Max Logger** This is the maximum amperage that the logger ever recorded.
 - c. **Max Measured Amps** This is the maximum amperage value measured onsite with a multimeter when all fixtures on a circuit were believed to be on.
 - d. **Max Measured Calculated Amps** This is the maximum amperage value obtain from measuring maximum circuit wattage, voltage, and power factor with a multimeter and back calculating the amperage
 - e. **Rated Calculated Amps** This is the maximum amperage expected on a circuit from calculating the nominal input circuit watts from the lighting configurations and divining by the measured circuit voltage and power factor to obtain amps.
 - f. **QCer Value** This is a numerical value the QCer sets using the contextual information gleaned from items a. through e. above. The a. through e. values may not be the exact values we want to use, however they each allow cross-referencing to determining the best value to generate an accurate %ON time for the fixtures being logged.
- 12. **Rationale for Max Value** This is a text field where the QCer provides the justification for why they set the maximum amp value they did.
- 13. **Data Quality** This is another key field that described whether all the data for a logger is "Good" or "Bad". If the disposition is "Good" then the logger data can be used for analysis, if "Bad" it cannot.

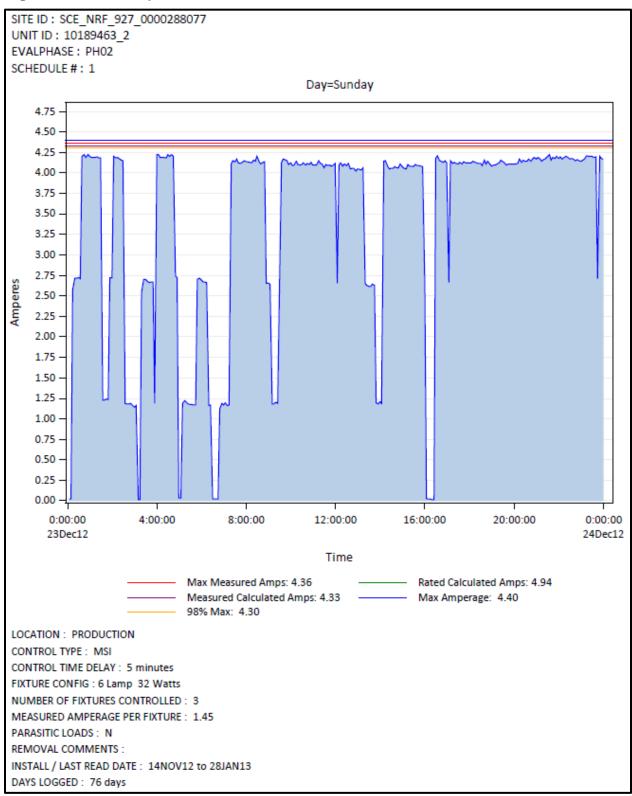
- 14. **Spot Measure Comments** This field describes accuracy of the spot measurements and their consistency with the data.
- 15. **General Comments** This field allows the QCer to describe in more detail any discrepancies or issues related to the logger that may have been touched upon earlier in the QC workbook.
- 16. **Action Items for Form Change** This field describes any changes that need to be updated on the survey form from QCing the logger's data.
- 17. **Action Items for SAS** This field describes in detail the adjustments that need to be made to a logger using SAS code.
- 18. **Final QCer** Contains the initials for the person who gave the final dispositions for the logger.
- 19. **Date Final QC** Date the loggers' QC was complete.

F.6 Hobo QC PDFs

As with Dent logger QC, the ability to view the logger data in graphical form is essential to assessing the quality of a logger. For HOBO QC each logger's raw data was graphed to PDFs using SAS code. Each logger PDF is stored in it respective site folder where the final survey form, site photos, and raw data live, making it easy to access all site information at one time. Each PDF shows day by day lighting usage and the format allows you to scroll through each day of data (76 days maximum for HOBO loggers). Pre-populated on each PDF is contextual information about the site and logger that allow a QCer to perform key checks to ensure the data is as expected. The contextual data populated to the form is listed below and an example of a HOBO QC PDF is shown in Figure F-12.

- Schedule item
- Location
- Control type
- Control time delay
- Fixture configuration
- Number of fixtures controlled
- Measured amperage per fixture
- Parasitic loads
- Removal comments
- Install / Last read date
- Days installed





Also shown in the graph are five colored horizontal reference lines. These reference lines represent different circuit measurements taken onsite as well as values extracted directly form the data. The reference lines are used to asses the quality of the data. A description of each reference line is provided below.

- 1. Max Measured Amps (Red) This is a direct amp measurement made with a digital mulitmeter on this logger's lighting circuit and made when the surveyor believed all of the lights on the circuit were on. This value is important because if done correctly, the maximum amperage seen in the data should top out around this point. This value cannot be used alone to assess the data quality as the lighting fixtures have integrated occupancy sensors and not all of the lights on the circuit may be on at one time during the montorign period.
- 2. Measured Calcualted Amps (Purple) This measurement is a cross-reference to the max measured amps above. Here the surveyor will measure the circuit wattage, voltage, and power factor. From these three measurements the amperage is calcualted (Watts/Votage*Powerfactor). If no fixtures have turned off between taking the max measured amps and measured calculated amps, the amp values should be roughly the same.
- 3. Rated Calculated Amps (Green) This is a rough calculation conducted to make sure the other measurements taken are in the right ballpark. This calculation takes into account the number of fixtures on a circuit, the number of lamps per fixture, and the lamp wattage. The number of fixtures*lamps per fixture*lamp wattage/circuit voltage*powerfactor give you a benchmark for your other measurements. For example, if you have 10 fixtures on a circuit, 4 lamps per fixture, with 32 watt lamps, you would expect the amperage measured on the circuit (when all the lights are on) to be around 10.4 amps (if the voltage is 120 and powerfactor is 0.98). If the amperage measurements are not around this range, you are likely measureing the wrong circuit.
- 4. **Max Amperage** This is extracted from the logger data and is the maximum value seen in the data throughout the logging period. This is also used as a reference and should be in the same range as the other reference measure lines above.
- 5. **98% Max** This is also extracted from the logger data and is the maximum amperage value seen in the data at the 98th percentile. This value is useful because it helps factor out any startup amperage spike the circuit may see, which would a false maximum steady state amperage draw.

The reference values seen in Figure F-12, are right around the same amperage range, and the maximum amperage seen in the logger data profile peaks slightly below these values. Taking a closer look shows that the data represent 3 fixtures on the circuit and there is a clear three step pattern in the data, showing when each of the three fixtures turned on and off. As described in

the HOBO QC Workbook, one of our main goals is to extract a maximum amperage value to compare the data agains to calculate %ON time. In this example it is clear that when three fixtures are on, the maximum amperage is right around 4.15 amps (on averge). As such, 4.15 amps is set as the max value for the logger and is the denominator the data is compared against for generating %ON times.

F.6.1 HOBO Data Issues

The testing, crosschecking, and installation of HOBO loggers are a tedious and multifaceted process. Given the variability of electric panel wiring in relation to lighting fixtures, as well as the operation of the integrated occupancy sensors that control the lights logged by HOBO loggers, two types of data errors are likely to occur. The first error occurs when the fixture count and expected amperage measured on a circuit do not match. This happens because one may not be able to turn lighting circuits on and off at a site, and if one can, the fixtures on that circuit may turn off before measurements can be made at the electric panel. This results in an inaccurate measurement and inaccurate expected amperage to later compare with the logger data. The form is set up to flag these instances and require re-tests, but sometimes all options have been expended and the surveyor will have to use what they were able to get. The second data issue is parasitic loads. When testing and measuring the lighting circuits to be logged, the surveyors perform test to look for parasitic loads (non-rebated lighting loads on the circuit). During the day all tests for this may pass, but it is possible that there are still loads on the circuit that were not on at the time. As such, some loggers show parasitic loads that have to be evaluated and adjusted on a logger by logger basis. For each of these issues, Itron has built in survey form and onsite procedure cross checks that allow these to be detected and rectified in most cases.

F.6.2 HOBO Time Issues

For the HOBO loggers the only time issue that needed to be addressed was Daylight Saving Time (DST). When a logger's installation period includes a DST event, it is necessary to adjust the time/date stamps when time changes occur to set the logger's clock back to clock time. To help facilitate these adjustments, a calendar was created indicating when time changes occurred. Code was then written to recognize the time to which the logger was synced and then adjust the data when a DST boundary was crossed.

F.7 Conclusion

After using viewLoggers to evaluate thousands of loggers and HOBO QC for hundreds, obvious potential improvements have been identified for the next revision of the QC processes. For both viewLogger and HOBO QC, allowing the user to zoom in on the data could be invaluable. For viewLoggers, looking at one day's usage may show issues that could have only been identified in

the raw data. Also, having viewLoggers generate load shapes from the logged data and reported operating schedules could save time during analysis. For HOBO QC, having weekly profiles available would help identify circuit trends that previously took a lot of daily data scrolling. Other issues have arisen that will also need to be addressed, but the logger QC processes worked admirably well given the short development time and planning that went into its design.

Reviewing and assigning dispositions to over 4,000 loggers would not have been possible without well trained and dedicated evaluators and tools that could be used to review the data efficiently and effectively. viewLoggers was developed to be that tool for the Dent loggers and HOBO QC for the HOBO loggers. With their ability to bring together all pertinent information in one place for evaluation, both were key elements in maintaining the integrity and high level of data quality for this CPUC Non-Residential Downstream Lighting Impact Evaluation.

Appendix I

IEPEC Paper on Self-Report Adjustment Factors

Is The Customer Always Right? A Cost-Effective Method for Estimating Lighting Usage in Commercial Buildings

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ABSTRACT

The California Public Utilities Commission recently released the *Small Commercial Contract Group Direct Impact Evaluation Report*. This evaluation included the largest lighting end use monitoring study of its kind, with the installation of nearly 7,000 lighting loggers in over 1,200 commercial buildings throughout California. As part of the on-site visit for this study, participants were asked to estimate their lighting usage by activity area within their building, as well as provide their business operating hours. Lighting loggers were then installed on rebated CFLs and linear fluorescent fixtures. This allowed for a comparison of participants' actual lighting usage to both their self-reported lighting usage and their business operating hours.

This paper establishes a method for estimating lighting usage in commercial buildings without the cost of installing on-site metering equipment. The method leverages on-site monitoring data from the *Small Commercial Report* by using business operating hours as a predictor to estimate daily lighting usage profiles by building type and activity area. As a secondary approach, the usage estimates can be further refined using site-level self-reported usage data, if available.

Introduction

How does one estimate lighting usage profiles for commercial buildings? Ideally, lighting logger equipment can be installed to monitor the usage, but this is an expensive approach. A less costly option may be to ask customers to estimate their own lighting usage. But, how accurate are these self-reported usage values? Do customers tend to over- or under-estimate their usage? Do these trends vary by building type and activity area?¹ Are there certain times of the day that customers are simply unable to accurately estimate their own usage?

Another option may be to use business hours as a proxy for lighting usage. In its simplest form, this method would assume that all lights in a business were ON when the business was open, and OFF when the business was closed. However, some lights are left ON after businesses have closed, and not all lights are turned ON during open hours.

The purpose of this study was to develop a method for estimating lighting usage in commercial buildings that leverages existing monitoring data from the *Small Commercial Contract Group Direct Impact Evaluation Report*. The method developed requires only a building's business hours to develop accurate usage profiles. As a secondary approach, self-reported lighting usage information can also be used to further refine the estimation during times that businesses are open.

The primary results of this study are presented as lighting usage rates² that allow for the

Activity areas are defined as areas at the premise that have different activity types (e.g., office, dining room, and kitchen).

In this context, a lighting usage *rate* is a percentage that can be thought of as a probability. For example, if the usage rate for a lamp is 50% in a certain period, then there is a 50% chance that the lamp will be on at any given time within that period.

development of simple 8760 lighting use shapes based on business open, closed, and shoulder hours³ specific to building type and activity area. We refer to these primary results as the *business hour rates*. They are meant to be used to estimate lighting usage across an entire market segment or building type (such as Office buildings or Restaurants). To apply the business hour rates, a sample of sites and their business hours must be obtained (or assumed). Then, the rates are used to develop lighting usage profiles for each site in the sample based on their individual business hours. Finally, individual profiles are then averaged together to make an estimated usage profile for the entire sector.

As mentioned above, this paper also provides secondary results that use self-reported lighting usage to refine the business hour estimation. We refer to these secondary results as the *self-report adjustment factors*, since they are used to <u>adjust</u> self-reported usage to make it more accurate. Each self-report adjustment factor is the ratio of actual monitored lighting usage over self-reported usage. Although we began this study with the intention of presenting self-report adjustment factors as the primary method for estimating lighting usage, we found that customers too often self-reported zero or very little use during the times that the business was not open, making the ratios undefined or unreasonably large. Therefore, we present the self-report adjustment factors as a way to adjust self-reported usage during open times only.

Background

The analysis for this study was completed using data collected for the recently released 2006-2008 Small Commercial Contract Group Direct Impact Evaluation Report (Small Com Report),⁴ prepared by Itron, Inc., for the California Public Utilities Commission. The primary purpose of the Small Com Report was to provide an evaluation of the California investor owned utilities' claimed energy efficient accomplishments in the commercial sector for the 2006-2008 program cycle. ⁵ The majority of these claimed savings came by way of efficient lighting retrofit projects. Hence, an extensive statewide on-site survey and time-of-use data collection effort was undertaken by Itron to gather the lighting usage information needed to calculate the energy savings.

Data Collection

The three main components of the on-site survey utilized in this analysis were the site's business hours, the self-reported lighting usage, and the lighting logger data.

The business hours were collected over the phone during the initial telephone recruitment survey and then confirmed by the surveyor on-site. These business hours were recorded as the opening time and closing time for each day of the week. If a business kept a separate set of business hours for seasonal operation, that information was recorded as well.

The self-reported operating hours were collected as a percent of time on per hour for each hour in each day of the week. On-site surveyors collected these self-report estimates for each different lighting usage schedule within the building. Typically, different activity areas within a building had different lighting usage schedules.

As described in further detail below, the shoulder periods are defined as the two hours before opening and the two hours after closing.

⁴ The Small Com Report can be found at www.CALMAC.org. Study ID: CPU0019.01.

The scope of the Small Com Report included the evaluation of claimed lighting savings from all non-residential programs, *excluding* the custom programs. These non-custom programs were typically directed toward small- and medium-sized customers, while the custom programs typically served large customers. For this reasons, the Report was named "Small Commercial" even though the participants were not exclusively "small."

The time-of-use data were obtained through the installation of lighting loggers. A technical description of the lighting loggers and the installation/extraction procedures can be found in the Small Com Report, Appendix G. Once on-site, surveyors attempted to log every representative activity area where rebated CFLs and linear fluorescent lamps were installed.

Data Processing

After extraction, the lighting logger data were processed into a percent-ON-per-hour format. This allowed for a comparison of the actual lighting usage data with the business hours and secondarily with the self-reported hours of usage. Figure 1 demonstrates this comparison for an office area. The data shown represent CFL usage at an office activity area within a particular office building on an average Friday. The vertical axis represents the usage rate (i.e., percent ON for each hour of the day) for the self-reported and actual usage values. For the business hours, a value of 1 on the vertical axis means the business was open, and a value of 0 means the business was closed.

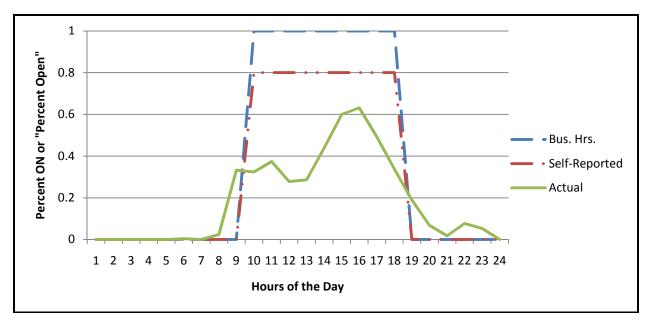


Figure 1: Example of Actual and Self-Reported Lighting Usage and Business Hours

This analysis was motivated by a desire to utilize these business hour and usage shapes to help estimate lighting usage in future studies. Understanding that buildings in future studies may have different business operating schedules, or self-reported usage, we provide our results at a level of granularity that allows future researchers to take those differences into account.

The next step in processing of the data was to identify each hour at each site as being in one of the following four periods (relative to business hours): Open, Opening Shoulder, Closing Shoulder, or Closed. The Open period was defined as all hours of the day for which the business was open. The Opening Shoulder and Closing Shoulder periods were defined as the two hours before opening and after closing, respectively. The Closed period was defined as all hours for which the business was closed and not in one of the two shoulder periods.

Once these periods were identified, the actual and self-reported usage rates were calculated for each period and each activity area at each site. The aggregation from individual loggers to activity areas

was done based on the number of lamps each logger was monitoring. The final calculation of the results is described in the Results section below.

Results

As mentioned in the Introduction, the primary results are the business hour rates. These results can be applied simply by knowing the business operating hours, building type, and activity areas. In case the activity area distributions within the buildings are not known, aggregated building type results are also provided.

The secondary results are the self-report adjustment factors. In order to apply these factors, one must also obtain self-reported usage rates during open times by activity area for the sample of buildings. The self-reported usage rates used in this analysis were collected on-site. We believe that the on-site visit is necessary to gather reliable self-report information and to properly label activity areas. Thus, we recommend that self-reported values used for future estimations also be collected on-site.

Business Hour Rates

The business hour rates represent the percent usage during each period of the day (Open, Closed, and the Shoulder periods). The dataset for the business hour rates included data from the seasonal business operation schedules and holidays. The usage rates for each logger were weighted by the total number of lamps represented and the total hours elapsed in each period.

Table 1 and Table 2 presented below contain the business hour rates by building type and activity area. Table 3 and Table 4 contain the business hour rates aggregated to the building type level. We chose to provide these building level estimation figures in addition to the activity area figures to offer additional flexibility to future evaluators.

Self-Report Adjustment Factors

As mentioned above, the original intent of this analysis was to produce adjustment factors (i.e., multipliers) that could be applied to self-reported usage for each of the four periods in the day. An adjustment factor is defined as actual metered usage divided by self-reported use. However, we found that many sites self-reported that they had zero or very little usage during the shoulder or closed periods. Since the denominator in the multiplier was zero or nearly zero, this made the adjustment factors either undefined or extremely large. Therefore, adjusting self-reported usage is not a good way to estimate lighting use during the closed and shoulder periods. For those periods, we recommend using the business hour rates as presented in the previous section.

Table 5 and Table 6 contain the self-report adjustment factors that can be applied to self-reported usage during the Open period. The results are presented by building type and activity area, separately for CFL and linear fluorescent lighting. The building level figures were not provided for the self-report factors because we assume that future evaluators will gather self-report usage information at the activity area detailed level.

Table 1: Business Hour Rates - CFL

Building			C	Closed	Openin	g Shoulder	Op	en	Closing Shoulder	
Туре	Activity Area	Num Sites	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.
	Assembly	32	0.03	$(0.02, 0.05)^6$	0.04	(0.02, 0.06)	0.14	(0.11, 0.17)	0.09	(0.05, 0.13)
	HallwayLobby	54	0.13	(0.08, 0.17)	0.22	(0.13, 0.31)	0.43	(0.32, 0.54)	0.20	(0.13, 0.28)
	Kitchen/Break	12	0.04	(0.01, 0.07)	0.03	(0.01, 0.04)	0.12	(0.06, 0.18)	0.10	(0.02, 0.18)
Assembly	Office	23	0.04	(0.01, 0.07)	0.07	(0.02, 0.12)	0.30	(0.19, 0.41)	0.16	(0.09, 0.22)
	OtherMisc	35	0.03	(0.02, 0.04)	0.08	(0.04, 0.11)	0.43	(0.31, 0.55)	0.12	(0.08, 0.16)
	Restrooms	43	0.08	(0.04, 0.13)	0.12	(0.05, 0.18)	0.31	(0.2, 0.42)	0.17	(0.09, 0.26)
	Storage	31	0.04	(0.01, 0.07)	0.05	(0, 0.1)	0.16	(0.05, 0.27)	0.07	(0.01, 0.12)
TT 1/1 /	HallwayLobby	40	0.18	(0.05, 0.31)	0.32	(0.17, 0.47)	0.63	(0.47, 0.8)	0.38	(0.2, 0.55)
Health/ Medical -	Office	24	0.03	(0.02, 0.05)	0.12	(0.08, 0.16)	0.43	(0.25, 0.62)	0.21	(0.11, 0.31)
Clinic	OtherMisc	26	0.04	(0, 0.08)	0.09	(0, 0.2)	0.15	(0.1, 0.21)	0.21	(0, 0.44)
Cillic	Restrooms	24	0.01	(0, 0.01)	0.02	(0, 0.05)	0.16	(0.04, 0.27)	0.05	(0.02, 0.08)
	Guest Rooms	91	0.07	(0.04, 0.11)	0.10	(0.06, 0.15)	0.08	(0.07, 0.09)	0.05	(0.02, 0.08)
	HallwayLobby	54	0.25	(0.16, 0.33)	0.21	(0.13, 0.29)	0.64	(0.56, 0.73)	0.19	(0.13, 0.26)
	Kitchen/Break	12	0.13	(0, 0.38)	0.40	(0, 0.92)	0.34	(0.12, 0.57)	0.27	(0, 0.66)
Ladaina	Mechanical/Elec. Room	16	0.01	(0, 0.01)	0.05	(0.02, 0.07)	0.31	(0.11, 0.51)	0.01	(0, 0.04)
Lodging	Office	13	0.07	(0, 0.18)	0.05	(0, 0.11)	0.32	(0.22, 0.42)	0.09	(0, 0.17)
	OtherMisc	18	0.08	(0, 0.19)	0.05	(0, 0.1)	0.61	(0.5, 0.72)	0.13	(0.07, 0.19)
	Restrooms	39	0.09	(0.03, 0.15)	0.16	(0.03, 0.3)	0.07	(0.06, 0.09)	0.15	(0.01, 0.29)
	Storage	13	0.14	(0, 0.48)	0.43	(0, 1.16)	0.18	(0.06, 0.3)	0.22	(0, 0.65)
	HallwayLobby	46	0.29	(0.15, 0.44)	0.39	(0.25, 0.53)	0.64	(0.53, 0.76)	0.40	(0.28, 0.53)
Office -	Office	32	0.04	(0.02, 0.06)	0.14	(0.08, 0.2)	0.57	(0.48, 0.67)	0.16	(0.11, 0.22)
Small	OtherMisc	23	0.04	(0.01, 0.07)	0.05	(0.02, 0.07)	0.32	(0.18, 0.46)	0.14	(0.08, 0.21)
Siliali	Restrooms	72	0.04	(0.01, 0.07)	0.06	(0.02, 0.1)	0.15	(0.08, 0.21)	0.09	(0.03, 0.14)
	Storage	20	0.06	(0, 0.11)	0.14	(0.06, 0.22)	0.20	(0.06, 0.33)	0.15	(0.06, 0.25)
	HallwayLobby	31	0.25	(0.17, 0.33)	0.11	(0.02, 0.2)	0.61	(0.42, 0.81)	0.57	(0.26, 0.88)
	Office	20	0.17	(0.03, 0.31)	0.23	(0.1, 0.36)	0.51	(0.42, 0.6)	0.31	(0.11, 0.52)
Other	OtherMisc	32	0.13	(0.11, 0.16)	0.08	(0.04, 0.13)	0.14	(0, 0.33)	0.04	(0, 0.09)
	Restrooms	62	0.08	(0.05, 0.11)	0.18	(0.09, 0.27)	0.45	(0.3, 0.6)	0.25	(0.12, 0.38)
	Storage	29	0.19	(0, 0.4)	0.22	(0, 0.46)	0.52	(0.28, 0.76)	0.27	(0.05, 0.5)
	Dining	67	0.06	(0.03, 0.1)	0.23	(0.17, 0.3)	0.78	(0.71, 0.85)	0.30	(0.24, 0.35)
	HallwayLobby	36	0.33	(0.17, 0.49)	0.42	(0.23, 0.6)	0.64	(0.38, 0.9)	0.42	(0.23, 0.61)
	Kitchen/Break	26	0.13	(0.04, 0.22)	0.54	(0.4, 0.68)	0.84	(0.72, 0.96)	0.36	(0.23, 0.49)
Restaurant	Office	14	0.10	(0.04, 0.16)	0.27	(0.14, 0.4)	0.40	(0.28, 0.53)	0.26	(0.13, 0.38)
	OtherMisc	8	0.23	(0.02, 0.45)	0.47	(0.22, 0.72)	0.70	(0.56, 0.84)	0.41	(0.25, 0.58)
	Restrooms	52	0.16	(0.09, 0.24)	0.31	(0.23, 0.4)	0.52	(0.42, 0.62)	0.32	(0.2, 0.43)
	Storage	42	0.09	(0.05, 0.14)	0.30	(0.2, 0.39)	0.45	(0.31, 0.6)	0.19	(0.11, 0.26)
	HallwayLobby	21	0.17	(0.06, 0.28)	0.31	(0.19, 0.43)	0.59	(0.43, 0.75)	0.28	(0.17, 0.4)
	Office	27	0.31	(0.08, 0.54)	0.44	(0.25, 0.62)	0.75	(0.57, 0.92)	0.36	(0.15, 0.57)
Retail -	OtherMisc	26	0.04	(0.01, 0.07)	0.18	(0.08, 0.28)	0.54	(0.33, 0.76)	0.13	(0.08, 0.18)
Small	Restrooms	104	0.03	(0.02, 0.04)	0.05	(0.03, 0.08)	0.17	(0.12, 0.22)	0.07	(0.04, 0.1)
	RetailSales	59	0.22	(0.08, 0.36)	0.29	(0.18, 0.4)	0.81	(0.74, 0.87)	0.31	(0.21, 0.42)
	Storage	31	0.04	(0, 0.1)	0.14	(0.05, 0.24)	0.37	(0.13, 0.62)	0.07	(0.01, 0.13)

⁶ The lower confidence limits for all confidence intervals in this paper have been restricted to a minimum value of zero.

Table 2: Business Hour Rates-Linear Fluorescent

				Closed	Openi	ng Shoulder		Open	Closing Shoulder	
Building Type	Activity Area	Num Sites	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.
J K	Assembly	16	0.03	(0.02, 0.04)	0.06	(0.01, 0.11)	0.28	(0.13, 0.42)	0.08	(0.05, 0.12)
	HallwayLobby	9	0.13	(0.09, 0.17)	0.12	(0, 0.27)	0.24	(0.04, 0.44)	0.21	(0.05, 0.37)
Assembly	Kitchen/Break	10	0.06	(0.03, 0.09)	0.16	(0.03, 0.29)	0.37	(0.23, 0.52)	0.18	(0.08, 0.28)
	Office	14	0.03	(0.02, 0.04)	0.14	(0.07, 0.2)	0.44	(0.39, 0.5)	0.11	(0.06, 0.15)
	OtherMisc	20	0.04	(0.02, 0.05)	0.12	(0.07, 0.16)	0.27	(0.17, 0.37)	0.11	(0.06, 0.16)
	Comm/Ind Work	10	0.04	(0.01, 0.07)	0.06	(0.01, 0.12)	0.64	(0.3, 0.99)	0.30	(0.13, 0.47)
	HallwayLobby	27	0.20	(0.1, 0.29)	0.26	(0.15, 0.36)	0.81	(0.75, 0.88)	0.47	(0.36, 0.58)
Health/	Kitchen/Break	12	0.03	(0, 0.07)	0.17	(0.06, 0.28)	0.61	(0.51, 0.7)	0.30	(0.18, 0.42)
Medical -	Office	25	0.07	(0.03, 0.11)	0.18	(0.11, 0.25)	0.64	(0.51, 0.76)	0.29	(0.22, 0.36)
Clinic	OtherMisc	16	0.01	(0, 0.02)	0.04	(0, 0.08)	0.41	(0.33, 0.49)	0.28	(0.15, 0.4)
	Patient Rooms	10	0.02	(0, 0.05)	0.06	(0.02, 0.1)	0.30	(0.13, 0.47)	0.20	(0.07, 0.34)
	Storage	10	0.01	(0, 0.02)	0.02	(0, 0.04)	0.45	(0, 0.92)	0.03	(0, 0.06)
_	OtherMisc	6	0.18	(0.03, 0.33)	0.29	(0, 0.64)	0.69	(0.43, 0.95)	0.23	(0.07, 0.39)
Grocery	RetailSales	10	0.17	(0.03, 0.31)	0.57	(0.17, 0.96)	0.95	(0.88, 1.02)	0.32	(0.18, 0.46)
	Comm/Ind Work	25	0.22	(0.04, 0.4)	0.37	(0.14, 0.61)	0.65	(0.56, 0.75)	0.41	(0.22, 0.6)
	Conference Room	23	0.02	(0.01, 0.04)	0.12	(0, 0.27)	0.35	(0.18, 0.52)	0.15	(0.05, 0.25)
	HallwayLobby	47	0.14	(0.06, 0.22)	0.27	(0.13, 0.42)	0.78	(0.71, 0.86)	0.41	(0.28, 0.55)
0.60 0 11	Kitchen/Break	34	0.16	(0, 0.31)	0.31	(0.07, 0.56)	0.52	(0.31, 0.73)	0.31	(0.08, 0.55)
Office - Small	Office	88	0.10	(0.01, 0.19)	0.23	(0.12, 0.35)	0.68	(0.61, 0.75)	0.33	(0.21, 0.46)
	OtherMisc	12	0.05	(0.01, 0.08)	0.21	(0, 0.46)	0.42	(0.22, 0.62)	0.15	(0.05, 0.25)
	Restrooms	9	0.04	(0.01, 0.08)	0.04	(0, 0.08)	0.34	(0.08, 0.61)	0.14	(0.02, 0.27)
	Storage	31	0.01	(0, 0.02)	0.05	(0.02, 0.09)	0.30	(0.16, 0.43)	0.07	(0.03, 0.11)
	Comm/Ind Work	30	0.09	(0.02, 0.16)	0.20	(0.11, 0.29)	0.67	(0.59, 0.74)	0.27	(0.11, 0.43)
	HallwayLobby	30	0.21	(0.08, 0.33)	0.41	(0.26, 0.56)	0.85	(0.82, 0.87)	0.49	(0.32, 0.66)
Od	Office	47	0.04	(0.02, 0.06)	0.11	(0.06, 0.16)	0.55	(0.42, 0.67)	0.19	(0.14, 0.24)
Other	OtherMisc	47	0.02	(0.02, 0.03)	0.11	(0.03, 0.19)	0.39	(0.25, 0.53)	0.13	(0.09, 0.16)
	Restrooms	13	0.03	(0.01, 0.04)	0.12	(0.05, 0.2)	0.27	(0, 0.62)	0.19	(0.03, 0.36)
	Storage	24	0.07	(0, 0.15)	0.14	(0, 0.27)	0.52	(0.37, 0.67)	0.19	(0.04, 0.34)
	Auto Repair Workshop	27	0.02	(0.01, 0.04)	0.12	(0.06, 0.18)	0.75	(0.63, 0.86)	0.31	(0.2, 0.42)
	Comm/Ind Work	33	0.06	(0.02, 0.11)	0.27	(0.13, 0.41)	0.83	(0.73, 0.92)	0.31	(0.22, 0.4)
	HallwayLobby	31	0.05	(0, 0.1)	0.16	(0.06, 0.26)	0.77	(0.65, 0.88)	0.22	(0.14, 0.3)
	Kitchen/Break	24	0.04	(0, 0.09)	0.11	(0.02, 0.19)	0.39	(0.24, 0.54)	0.18	(0.08, 0.28)
Retail - Small	Office	67	0.01	(0.01, 0.02)	0.09	(0.05, 0.13)	0.67	(0.59, 0.76)	0.15	(0.11, 0.2)
	OtherMisc	18	0.07	(0, 0.15)	0.17	(0.06, 0.29)	0.76	(0.6, 0.92)	0.30	(0, 0.61)
	Restrooms	15	0.02	(0.01, 0.03)	0.05	(0.01, 0.08)	0.26	(0.11, 0.4)	0.12	(0.04, 0.21)
	RetailSales	102	0.03	(0.02, 0.04)	0.15	(0.11, 0.18)	0.92	(0.9, 0.94)	0.14	(0.11, 0.17)
	Storage	62	0.04	(0.01, 0.06)	0.12	(0.07, 0.17)	0.72	(0.64, 0.79)	0.16	(0.08, 0.25)
	Dining	12	0.03	(0, 0.07)	0.08	(0, 0.16)	0.58	(0.43, 0.74)	0.17	(0, 0.34)
Restaurant	Kitchen/Break	13	0.28	(0.05, 0.51)	0.63	(0.35, 0.92)	0.80	(0.59, 1.01)	0.58	(0.34, 0.82)
Restaurant	OtherMisc	8	0.01	(0, 0.03)	0.35	(0.26, 0.43)	0.83	(0.58, 1.07)	0.19	(0.14, 0.23)
	Office	18	0.06	(0.02, 0.1)	0.20	(0.12, 0.28)	0.61	(0.56, 0.66)	0.13	(0.05, 0.2)
Warehouse	OtherMisc	16	0.02	(0.01, 0.03)	0.18	(0.06, 0.29)	0.43	(0.28, 0.57)	0.05	(0.02, 0.07)
	Storage	14	0.10	(0, 0.22)	0.14	(0.02, 0.25)	0.48	(0.3, 0.65)	0.13	(0, 0.26)

 Table 3: Business Hour Rates. Overall Building Type - CFLs

		(Closed	Opening Shoulder		Open		Closing Shoulder	
Building Type	Num Sites	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.
Assembly	230	0.06	(0.04, 0.07)	0.09	(0.07, 0.12)	0.31	(0.26, 0.37)	0.13	(0.11, 0.15)
Health/Medical - Clinic	114	0.11	(0.04, 0.19)	0.23	(0.12, 0.33)	0.21	(0.14, 0.28)	0.29	(0.17, 0.41)
Lodging	256	0.08	(0.06, 0.11)	0.11	(0.08, 0.14)	0.14	(0.11, 0.17)	0.08	(0.05, 0.11)
Office - Small	193	0.13	(0.07, 0.19)	0.19	(0.14, 0.25)	0.43	(0.36, 0.49)	0.22	(0.17, 0.28)
Other	174	0.15	(0.13, 0.17)	0.12	(0.06, 0.17)	0.30	(0.07, 0.53)	0.16	(0, 0.31)
Restaurant	245	0.11	(0.08, 0.15)	0.30	(0.25, 0.35)	0.72	(0.66, 0.77)	0.32	(0.27, 0.36)
Retail - Small	268	0.16	(0.08, 0.23)	0.24	(0.18, 0.31)	0.63	(0.56, 0.69)	0.24	(0.18, 0.3)

 Table 4: Business Hour Rates. Overall Building Type - Linear Fluorescent

		(Closed		Opening Shoulder		Open		g Shoulder
Building Type	Num Sites	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.	Usage Rate	90% C.I.
Assembly	69	0.04	(0.03, 0.05)	0.10	(0.07, 0.13)	0.30	(0.24, 0.37)	0.11	(0.09, 0.13)
Grocery	16	0.17	(0.06, 0.28)	0.51	(0.18, 0.85)	0.90	(0.81, 1)	0.30	(0.19, 0.41)
Health/Medical - Clinic	110	0.08	(0.05, 0.12)	0.16	(0.1, 0.21)	0.53	(0.41, 0.66)	0.33	(0.27, 0.38)
Office - Small	269	0.12	(0.06, 0.18)	0.25	(0.17, 0.33)	0.64	(0.59, 0.69)	0.33	(0.25, 0.41)
Other	191	0.06	(0.04, 0.09)	0.16	(0.11, 0.2)	0.54	(0.4, 0.68)	0.21	(0.16, 0.27)
Restaurant	33	0.10	(0.01, 0.18)	0.30	(0.14, 0.45)	0.70	(0.56, 0.83)	0.29	(0.15, 0.44)
Retail - Small	379	0.03	(0.02, 0.04)	0.14	(0.12, 0.17)	0.81	(0.78, 0.84)	0.18	(0.15, 0.21)
Warehouse	48	0.06	(0.02, 0.09)	0.18	(0.12, 0.24)	0.52	(0.46, 0.59)	0.11	(0.06, 0.15)

Table 5: Self-Report Adjustment Factor for Usage during Business Open Hours - CFLs

		Num	Self- Reported	Self-Report Adjustment	90% C.I. for the Adj.
Building Type	Activity Area	Sites	Usage	Factor	Factor
	Assembly	32	28%	0.55	(0.37, 0.74)
	HallwayLobby	54	54%	0.83	(0.64, 1.02)
	Kitchen/Break Room	12	23%	0.45	(0.09, 0.8)
Assembly	Office	23	63%	0.53	(0.34, 0.71)
	OtherMisc	35	55%	0.70	(0.51, 0.89)
	Restrooms	43	34%	0.88	(0.66, 1.11)
	Storage	31	23%	0.58	(0.34, 0.81)
	HallwayLobby	38	74%	0.80	(0.67, 0.92)
Health/Medical -	Office	23	82%	0.63	(0.38, 0.89)
Clinic	OtherMisc	23	65%	0.22	(0, 0.44)
	Restrooms	22	16%	1.35	(0.29, 2.42)
	Guest Rooms	82	33%	0.22	(0.16, 0.27)
	HallwayLobby	46	84%	0.86	(0.77, 0.95)
	Kitchen/Break Room	12	55%	0.65	(0.36, 0.95)
Lodging	Mechanical/Electrical Room	14	32%	0.76	(0.4, 1.12)
Loughig	Office	10	80%	0.41	(0.25, 0.58)
	OtherMisc	17	57%	0.91	(0.73, 1.09)
	Restrooms	34	25%	0.30	(0.18, 0.42)
	Storage	12	26%	0.61	(0.21, 1.01)
	HallwayLobby	45	74%	0.83	(0.72, 0.94)
	Office	31	75%	0.75	(0.66, 0.83)
Office - Small	OtherMisc	23	43%	0.80	(0.63, 0.96)
	Restrooms	68	19%	0.76	(0.55, 0.96)
	Storage	20	34%	0.45	(0.16, 0.74)
	HallwayLobby	30	77%	0.72	(0.56, 0.87)
	Office	18	80%	0.60	(0.54, 0.67)
Other	OtherMisc	31	9%	0.97	(0.84, 1.1)
	Restrooms	61	28%	1.29	(0.83, 1.75)
	Storage	27	54%	0.86	(0.66, 1.06)
	Dining	66	87%	0.88	(0.8, 0.97)
	HallwayLobby	35	81%	0.83	(0.69, 0.97)
	Kitchen/Break Room	25	91%	0.91	(0.83, 0.99)
Restaurant	Office	13	34%	1.18	(0.65, 1.71)
	OtherMisc	8	72%	0.91	(0.68, 1.14)
	Restrooms	49	51%	1.02	(0.87, 1.17)
	Storage	40	44%	1.14	(0.88, 1.39)
	HallwayLobby	19	85%	0.62	(0.42, 0.82)
	Office	27	64%	1.11	(0.74, 1.48)
Datail C11	OtherMisc	25	65%	0.70	(0.47, 0.93)
Retail - Small	Restrooms	99	14%	1.36	(0.85, 1.87)
	RetailSales	58	80%	1.02	(0.88, 1.17)
	Storage	29	59%	0.84	(0.68, 1.01)

Table 6: Self-Report Adjustment Factor for Usage during Business Open Hours - Linear Fluorescent

			Self-	Self-Report	90% C.I.
		Num	Reported	Adjustment	for the Adj.
Building Type	Activity Area	Sites	Usage	Factor	Factor
	Assembly	16	53%	0.35	(0.08, 0.62)
	HallwayLobby	8	54%	0.43	(0.2, 0.66)
Assembly	Kitchen/Break Room	10	43%	0.92	(0.29, 1.55)
	Office	13	55%	0.78	(0.55, 1)
	OtherMisc	20	54%	0.49	(0.41, 0.58)
Grocery	OtherMisc	6	70%	0.97	(0.71, 1.24)
Grocery	RetailSales	10	95%	0.97	(0.86, 1.08)
	Comm/Ind Work	9	77%	0.87	(0.55, 1.19)
	HallwayLobby	26	89%	0.89	(0.81, 0.98)
Health/Medical -	Kitchen/Break Room	12	70%	0.91	(0.67, 1.14)
Clinic	Office	24	75%	0.77	(0.56, 0.99)
Cillic	OtherMisc	16	55%	0.80	(0.63, 0.98)
	Patient Rooms	10	73%	0.45	(0.35, 0.54)
	Storage	10	45%	1.05	(0, 2.14)
	Comm/Ind Work	25	83%	0.78	(0.71, 0.85)
	Conference Room	23	45%	0.85	(0.47, 1.23)
	HallwayLobby	47	93%	0.83	(0.76, 0.9)
OCC C 11	Kitchen/Break Room	33	70%	0.80	(0.63, 0.97)
Office - Small	Office	87	82%	0.81	(0.74, 0.87)
	OtherMisc	12	69%	0.73	(0.49, 0.97)
	Restrooms	9	43%	0.82	(0.49, 1.15)
	Storage	30	44%	0.70	(0.54, 0.87)
	Comm/Ind Work	29	69%	1.00	(0.84, 1.17)
	HallwayLobby	29	60%	1.47	(0.61, 2.33)
0.1	Office	46	61%	0.88	(0.74, 1.01)
Other	OtherMisc	46	40%	1.06	(0.83, 1.29)
	Restrooms	12	22%	1.69	(0, 4.35)
	Storage	24	51%	1.02	(0.66, 1.39)
	Dining	12	73%	0.83	(0.7, 0.95)
Restaurant	Kitchen/Break Room	13	82%	0.96	(0.8, 1.13)
	OtherMisc	7	80%	0.86	(0.57, 1.15)
	Auto Repair Workshop	26	87%	0.88	(0.78, 0.98)
	Comm/Ind Work	33	93%	0.85	(0.75, 0.95)
	HallwayLobby	29	82%	0.96	(0.86, 1.05)
Retail - Small	Kitchen/Break Room	21	60%	0.69	(0.48, 0.9)
	Office	65	74%	0.91	(0.82, 0.99)
	OtherMisc	17	81%	0.93	(0.87, 0.99)
	Restrooms	15	34%	0.87	(0.49, 1.24)
	RetailSales	100	94%	0.98	(0.95, 1.02)
	Storage	59	72%	0.98	(0.9, 1.05)
	Office	15	88%	0.71	(0.64, 0.79)
Warehouse	OtherMisc	15	73%	0.73	(0.64, 0.81)
	Storage	12	50%	0.95	(0.78, 1.13)

Application of Results

In this section, we provide an example to give guidance on the application of the results. We apply the two methods to our own data to estimate CFL usage at office activity areas within office buildings. We start with an application of the business hour rates and then show how the self-report factors can offer an additional refinement. It is important to note that the estimation techniques presented in this paper are meant to be applied to a large survey sample; they are not meant to accurately predict usage at a single site. Since the estimation techniques are sensitive to business hours at the individual sites, they must first be applied to each site in the sample and then aggregated to represent the desired population-wide lighting usage.

Application of Business Hour Rates

For each site in the sample, apply the business hour rates to each appropriate business hour period. The dotted line in Figure 2 is an example of this application to a single site. The dashed line shows the business's opening and closing times.

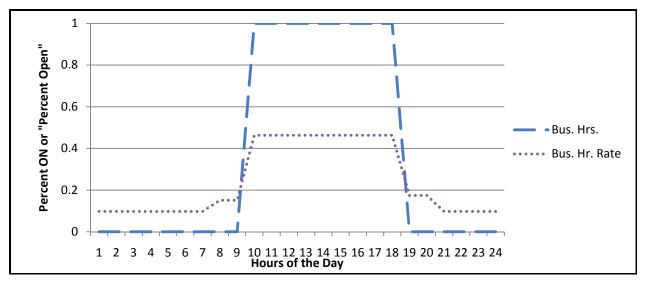


Figure 2: Application of the Business Hour Rates to a Single Site

Once the business hour rate estimates have been applied individually to all sites in the sample, the estimated usage profiles should be aggregated to create the desired population-wide lighting usage estimate. This population-wide estimation is shown in Figure 3. The Actual usage is also shown on Figure 3 to allow for a comparison with the estimate.

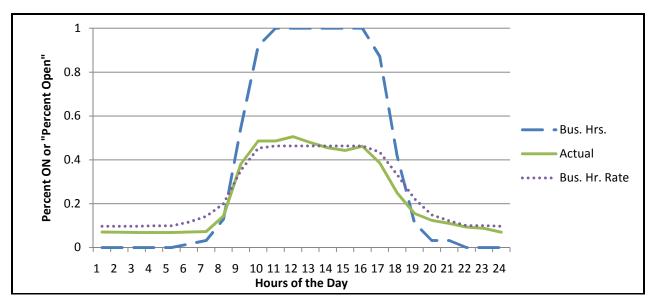


Figure 3: Population-Wide Actual Usage, Business Hours, and the Business Hour Rate Estimate

Application of Self-Report Adjustment Factors

As discussed in the Results section of this paper, the self-report adjustment factors can only be applied to self-reported usage during Open periods. In Figure 1, we saw a self-reported usage rate of 80% during the Open period. Table 6 tells us that this usage rate should be multiplied by a factor of 0.68. Thus, the estimated usage at this particular site during the Open period would be 54%. The estimates for the Closed and Shoulder periods are the same as the business hour rates.

Once these estimates have been applied individually to each site in the sample, they should be aggregated together to produce the desired population-wide estimate. This is shown in Figure 4.

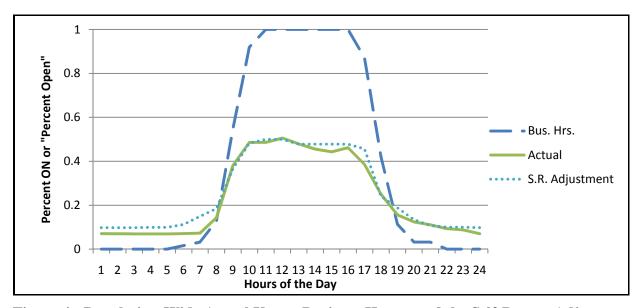


Figure 4: Population-Wide Actual Usage, Business Hours, and the Self-Report Adjustment Estimate

Conclusion

This paper provides evaluators with a cost-effective method for obtaining accurate lighting usage estimates in commercial buildings. With the business hour rates, evaluators can leverage simple business operating hours into reliable estimates of lighting use shapes. With the self-report method, evaluators can further refine their estimates to contour their lighting load shapes to the unique characteristics of the buildings under their study. Because these results are provided at a detailed level, evaluators have the flexibility to apply them based on the specific building type, activity area, and business hour characteristics of the population under their study.

References

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