

2010 Lighting Rebate

Instructions for completing the Retrofit LIGHTING Rebate Worksheet

General Note

1. This application is for replacing existing interior lighting fixtures or systems with new higher efficiency lamps, ballast and lighting fixtures, systems and controls.
2. All fixture cut sheets/specifications including fixture efficiency or photometric tables must be submitted and reviewed by the utility to verify compliance with technical requirements as needed.
3. Invoices will be required for payment of rebates.
4. The rebate, in conjunction with all other sources of funding, cannot exceed the total project cost.

Eligibility Requirements:

1. Each lighting efficiency measure must meet the efficiency and technical specifications found in Table A. Fixture efficiency ratings can be found on fixture photometric reports. (It is the total % lamp lumen output in the 0 to 90 degrees for direct fixtures and 0 to 180 degrees for direct/indirect found in the Zonal Lumen Summary table).
2. Lighting efficiency requirements are intended to reduce the lighting system's energy demand and consumption while delivering quality lighting in accordance with IES recommended lighting guidelines.
3. The existing lighting should be in-place and operational at the time of pre-inspection.
4. Each fixture or system must operate a minimum of 1000 hours of use annually
5. All linear fluorescent fixtures must have new High Performance/ Reduced Wattage (HP/RW) T8 lamps and new High Performance/ Reduced Wattage (HP/RW) ballasts, or new T5 lamps and ballasts.
6. Each fixture must meet the Minimum Watts Reduction listed in Table A. The Minimum Watts Reduction is the average savings per new fixture. This is the difference between the total existing fixture system watts and the total new replacement system fixture watts / quantity of new fixtures.
7. Minimum watts for prescriptive control measures is the average total watts controlled per controller.
8. Outdoor lighting will be considered as a custom measure & must pass the utility's benefit cost test to be eligible for a rebate. The exception is measure code 83

Existing Lighting Systems Inventory

1. An inventory should be submitted documenting all existing fixtures to be replaced and the proposed fixtures that will be installed. For each fixture, note the lamp size, type, quantity, ballast type and hours of operation, ref. Table B.
2. Existing and Proposed Fixture Codes can be found in Table C.

Pre-Installation

1. A site inspection may be performed by a utility representative confirming the existing fixture information and quantities. Make sure to call your utility before starting the lighting project to determine if a site inspection is required.
2. The existing fixtures should be summarized by fixture code, ref. Table C. Electronic copies of the Lighting System Inventory similar to Table B are encouraged to facilitate the rebate application review
3. Complete the lighting and/or lighting controls rebate info found in Table A. Check to ensure all proposed measures meet the criteria and watts delta for measures noted in Table A.
4. Fill out a separate line for each unique combination of existing fixture code and hours of operation and proposed. Both existing and high efficiency fixture codes can be found in Table C.
5. Fill out a separate line for each lighting control measure including control description, quantity of fixtures controlled, number of watts controlled and hours of reduction for each device proposed, refer to Table A.
6. Quantity of fixtures installed may be different than the quantity of fixtures removed as long as the average minimum watts reduction is met.
7. Hours of operation are the estimated annual hours that the particular fixture(s) actually operates. Try to be as specific and accurate as possible. Fixture operating hours are not necessarily the same as the facility operating hours. If hours are unknown, consider installing light loggers, or ask your Utility Representative for assistance.
8. Add up the **Total Rebate** columns for each of the two tables. The Rebate Total boxes cannot exceed the total installed costs.
9. Add the **Lighting Total** and the **Control Total** in the **Grand Total** box. The front of the application is to be filled out by the utility.

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Explanation of how to fill out lighting rebate worksheet:

RETROFIT LIGHTING REBATE WORKSHEET										
EXISTING LIGHTING					NEW LIGHTING					
Item	Existing Fixture Code	Fixture Description	Quantity	Annual Hours of Operation	Measure Code	Retrofit Fixture Code	Fixture Description	Quantity of Fixtures (A)	Per Unit Rebate \$ (B)	Total Rebate (\$)
Ex.	3F40SSS	3L4'STD/STD	30	4,200	31	3F32EEL	3L4'T8 EE/ELEE	34	\$25	\$850
1	See Table C	See Table C	Quantity of fixtures removed	From Customer or Utility Rep.	See Table A	See Table C	See Table C	Quantity of fixtures installed	See Table A	A * B

Explanation of how to fill out lighting rebate worksheet:

LIGHTING CONTROLS REBATE WORKSHEET								
Item	Lighting Control Measure Code	Lighting Control Description	Quantity (A)	Lighting Fixture Code	Quantity of Fixtures	Annual Hours of Reduction	Per Unit Rebate \$ (B)	Total Rebate \$
Ex.	61	Occ. Sensor	6	3F32EEL	12	1050	\$50	\$300
	See Table A	See Table A	Quantity of controls installed	New fixtures that will be controlled – Table C	Quantity of fixtures being controlled	From Customer or Utility Representative	See Table A (verify min watts)	A * B

The exception is when rebate for controls is based on the number of fixtures i.e. measures 62, 63, 68

Post-Installation

Utility Representative must verify that:

1. The new energy efficient lighting fixtures, systems and controls types have been installed and are energized.
2. The lighting fixtures, systems and controls match the manufacturer's information represented on the rebate application. If any of the lighting fixtures, systems and controls have changed from what was approved for the initial rebate offer, the substituted lighting fixtures, systems and controls specifications must be re-submitted, reviewed to verify compliance with technical requirements and approved before a rebate is considered.
3. The invoice or proof of payment has been submitted.
4. The Utility Representative & Customer have signed / dated the post installation inspection block on the rebate form.

Measure Specific Documentation Requirements

1. Manufacturer cut sheets are required for all high efficiency fixtures. These should show the fixture efficiency and photometrics as well as the lamp and ballast specifications. Cut sheets for controls may also be required. Invoices should show or reference the fixture manufacturer, model, and number of lamps, ballast and fixture quantities. The invoice must show the costs.

LED Specific Documentation Requirements

1. LED prescriptive incentives are only provided on qualified LED fixtures listed on Energy Star's, Designlights or the utilities' websites. For fixtures not listed on the websites, manufacturers are encouraged to submit the required LED fixture information to either Energy Star for categories shown on their website or to DesignLights for categories shown on their website. For LED products without categories the manufacturer shall submit their LED fixture information including the required test information shown on Designlights' website to their utility for review. For more information see www.energystar.gov and www.designlights.org

Fluorescent Ballasts and Installation Guidelines

For customers participating in New Hampshire's large business retrofit lighting rebate program, the following equipment specifications and installation guidelines are recommended. These guidelines are not requirements for receiving rebates, but have been compiled to help inform our customers so they achieve the energy savings calculated under our programs and maintain quality installations.

1. Must meet all applicable current Federal and State efficiency standards.
2. Total harmonic distortion (THD) of 20% or less. THD is a measure of the distortion of an electrical wave form (sinusoidal wave) expressed as a percentage. Excessive THD may cause adverse effects to the electrical system and may interfere with electronic equipment.
3. UL Listed, National Electrical Code Section 410.
4. Power factor \geq 90% (considered high power factor devices). Power factor is a measure of the effectiveness with which an electrical device converts volt-amperes to watts.
5. Lamp Current Crest Factor (LCCF) is the ratio of peak lamp current to the RMS (average) lamp current. Lamp manufacturers require a LCCF of less than 1.70 in order to achieve full lamp life.
6. For outside or cold weather operation, ballasts with a 0 degree F rating should be used. Indoor operation ballast is typically rated for 50 degree F operation.
7. Ballast shall operate at a frequency above 40,000 Hz.
8. Ballast shall meet (FCC 47 CFR Part 18 Non-consumer) for EMI/RFI ensuring suitability for commercial and industrial installations.
9. Ballasts should be installed with the appropriate lamp size and number of lamps that the ballast was designed for to maintain the above specifications and project savings.

Examples:






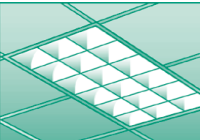
- a. A two (2) lamp fixture should have a 2 lamp High Performance / Reduced Wattage (HP/RW) ballast installed, not a 3 lamp ballast. A three (3) lamp ballast can power 2 lamps; but will draw more energy, could have higher harmonic distortion, and may affect lamp life.
 - b. HP/RW ballasts designed to power 4', 3' or 2' HP/RW T8's lamps are most efficient when powering the 4' HP/RW T8's. That ballast will use more energy and have higher harmonics when used with 3' or 2' lamps rather than a ballast designed specifically for 3' or 2' lamps.
10. Manufacturer should provide a minimum 3 year warranty, preferably a 5 year warranty. Some manufacturers will also provide a labor cost reimbursement for defective ballasts requiring replacement while under warranty.

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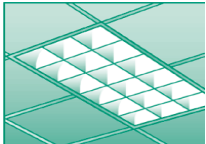
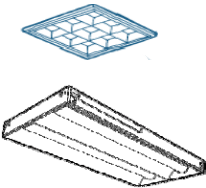
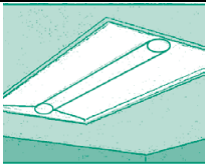
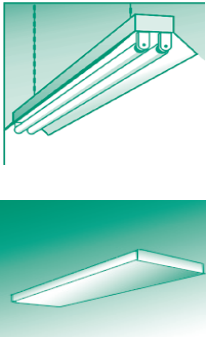
Lighting Fixtures and Systems - Efficiency Improvement Opportunities

Note: All fluorescent fixtures must have High Performance or Reduced Wattage (HP/RW) lamps & ballast systems or a T5 lamp and ballast systems to be eligible for a fluorescent rebates. For detailed eligibility requirements & a list of qualifying lamps and ballasts, log onto CEE's web site at www.cee1.org or utility website






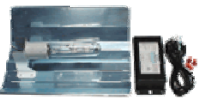

Table A: Lighting Systems Rebates

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	
10 ♦	Re-lamp/re-ballast existing T8 fixtures with new High Performance /Reduced Wattage (HP/RW) T-8 lamps and HP/RW T-8 Electronic Ballasts systems or T-5 lamp and ballast systems.	\$10	Re-lamp/re-ballast of existing fixtures with T-5 systems or HP/RW T8 systems, each T8 fixture is composed of a HP/RW ballast and 1, 2, 3 or 4 HP/RW lamps. Only one incentive may be counted per fixture. This also applies when HP/RW ballasts are used with non 4' lamps (2', 3', U bents, cold apps.).	11	
11 ♦	Tandem Wired lamp and ballast Retrofit of existing T8 fixtures.	\$15	Same as Code 10 except this applies to pairs of tandem wired fixtures sharing a single ballast	20	
12 ♦	Re-lamp/re-ballast existing T12 fixtures with new High Performance /Reduced Wattage (HP/RW) T-8 lamps and HP/RW T-8 Electronic Ballasts systems or T-5 lamp and ballast systems	\$20	Re-lamp/re-ballast of existing fixtures with T-5 systems or HP/RW T8 systems, each T8 fixture is composed of a HP/RW ballast and 1, 2, 3 or 4 HP/RW lamps. Only one incentive may be counted per fixture. This also applies when HP/RW ballasts are used with non 4' lamps (2', 3', U bents, cold apps.).	17	
13 ♦	Tandem Wired lamp and ballast Retrofit of existing T12 fixtures.	\$25	Same as Code 12 except this applies to pairs of tandem wired fixtures sharing a single ballast	24	
30A ♦	High Efficiency 2 lamp Prismatic Lensed Fluorescent Fixtures - 2x2 or 2x4	\$25	Overall fixture efficiency must be \geq : - 83% for 2x4 prismatic lensed fixture with two T-8 or T-5 lamps; - 75% for 2x2 prismatic lensed fixture with two T-8 or T-5 lamps (Biax lamps are not eligible).	27	
30B ♦	High Efficiency 2 lamp Parabolic Fluorescent Fixtures - 2x2 or 2x4	\$40	Overall fixture efficiency must be \geq 80% for: - 2x4 fixture with parabolic louver (2" to 3" deep cells) with two T-8 or T5 lamps; - 2x2 fixture with parabolic louver (2" to 3" deep cells) with two T-8 or T5 lamps (Biax lamps are not eligible).	27	

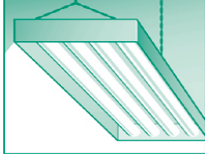
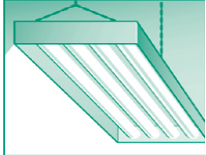
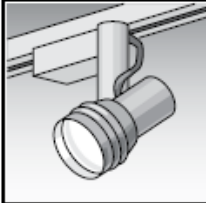


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Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	
30C◆	High Efficiency up to 2 lamp Recessed Indirect/Direct Fluorescent Fixtures 2x2 or 2x4	\$40	Overall fixture efficiency must be \geq : - 75% for 2x4 recessed indirect/direct fixture with two T-8 or T-5 lamps; - 75% for 2x2 recessed indirect/direct fixture with two T-8, T-5, or T5HO lamps (Biax lamps are not eligible); - 80% for 2x2 advanced glare reducing diffuser fixture with one or two T-8, T-5, T-5HO lamps (Biax lamps are not eligible).	27	
31◆	High Efficiency 3 lamp Fluorescent Fixtures - 2x4	\$25	Overall fixture efficiency must be \geq : - 83% for 2x4 prismatic lensed fixture with three T-8 or T-5 lamps; - 75% for 2x4 fixture with parabolic louver (2" to 3" deep cells) with three T-8 or T5 lamps; - 70% for 2x4 recessed indirect fixture with three T-8 or T-5 lamps; Eligible fixtures are limited to 3 lamps with a low power ballast factor < 0.80.	31	
32◆	High Efficiency Recessed Fluorescent 2 lamp Retrofit Kits - 2x2 and 2x4 Note: Advanced glare reducing diffuser fixtures are designed to redistribute direct lumens via a refractor (glare reducing lens) to fill the entire volume of space with light without glare or the cave effects of traditional downlights.	\$45	Overall fixture efficiency must be \geq : - 85% for 2x4 parabolic retrofit kit and advanced glare reducing diffuser retrofit kit with two T-8 or T-5 lamps; - 80% for 2x2 parabolic retrofit kit and advanced glare reducing diffuser retrofit kit with two T-8, T-5, or T-5HO lamps (biax lamps and reflector kits are not eligible).	27	
34◆	Advanced Recessed Fluorescent Fixtures 1x4 or 2x4	\$50	Overall fixture efficiency must be \geq 85% for: - 2x4 advanced glare reducing diffuser fixture with one or two T-8 or T-5 lamps, or one T-5HO lamp; - 1x4 advanced glare reducing diffuser fixture with one or two T-8 or T-5 lamps, or one T-5HO lamp.	33	
41◆	Industrial/Commercial Fluorescent Fixtures – 4 ft. and 8 ft. Fixtures	\$30	Overall fixture efficiency must be \geq : - 85% for Industrial Reflector fixture with T-8 or T-5 lamps (up to 20% up-light); - 83% for Commercial Grade Wraparound fixture with one or two T-8 or T-5 lamps. - 85% for reflector kits with specular or semi-specular reflectors Reflector Kits for Existing Fixtures includes 2'x2', and 2'x4' reflector troffer kits, 4' and 8' strip channel, and industrial reflector kits. Applies to fixtures installed at or less than 16 feet above the floor. Only one incentive may be counted per fixture. Eight foot and multiple fixtures served by a single ballast are only eligible for one incentive.	23	



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Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	
43 ♦	Vapor Tight Fluorescent Fixtures – 4ft and 8ft Fixtures	\$50	Overall fixture efficiency must be \geq : -70% for Vapor Tight fluorescent fixture with one or two T-8, T-5, T-8HO, T-5HO or 3-T8 lamps. Typically installed in garage, warehouse, food prep and other industrial applications.	45	
44 ♦	Clean Room Rated Fluorescent Fixtures – 1x4 or 2x4	\$50	Overall fixture efficiency must be \geq 75% for: - Clean Room fluorescent fixture with up to three T-8 or T-5 lamps. To be eligible for incentives, fixtures must be installed in a clean room rated environment.	27	
21	Compact Fluorescent Fixture (long tube CFL or Biac fixtures eligible)	\$15	To be eligible for incentives, all fixtures must be hard-wired and have electronic ballasts with <33% THD. All long tube CFL or Biac fixtures are eligible under this measure category. (Retrofit kits and screw-in adapters not eligible)	31	
23	Dimmable Compact Fluorescent Fixture	\$30	To be eligible for incentives, all fixtures must be hard-wired and have electronic ballasts with <33% THD. (Retrofit kits and screw-in adapters are not eligible)	35	
25	LED or LEC (Electroluminescence) Exit Fixtures	\$15	All materials and assembled units shall comply with all applicable codes and standards including (but not limited to) Federal/State/Local building, fire, and electrical codes, and may require designated egress lighting to comply with such codes. Exit sign retrofit kits are not eligible.	15	
51	Pulse Start Metal Halide Lamp and Electronic Ballast Kits	\$50	All kits must include a new matched Pulse Start Metal Halide Lamp and Electronic Ballast installed per manufacturer's specifications and applicable codes. Indoor and Outdoor fixtures are eligible. Street lights and Parking Lot lighting are not eligible under this measure and may apply as a custom measure to be considered for an incentive.	50	
52	Pulse Start Metal Halide Fixture with Electronic Ballast	\$70	Only New Metal Halide Pulse Start fixtures with Electronic Ballasts are eligible. Retrofit of existing metal halide fixture of less than 200 watts with new fixture is not eligible. Indoor and Outdoor fixtures are eligible.	64	

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Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	
56 ♦	High Intensity Fluorescent Fixtures (HIF) for Low Bay Applications (≤ 210W)	\$70	Minimum wattage is 111 Watts, Maximum wattage is 210 Watts. T8 systems used for low bay interior fixtures must have HPT8 lamps with High Ballast Factor ballast or T-5's systems. Fixtures must meet a min. fixture efficiency of 88% unless the application has a special lens or fixture requirement. Recommended mounting height ≥16 +/- feet above the floor. High Intensity Fluorescent fixtures incorporate a number of lamp technologies that include T-8, T-5, T-5HO and compact fluorescent..	55	
57 ♦	High Intensity Fluorescent Fixtures (HIF) for High Bay Applications (> 210W)	\$100	Minimum wattage is greater than 210 Watts. T8 systems used for high bay interior fixtures must have HPT8 lamps with High Ballast Factor ballast or T-5's systems. Fixtures must meet a min. fixture efficiency of 88% unless the application has a special lens or fixture requirement. Recommended mounting height ≥ 20 +/- feet above the floor. High Intensity Fluorescent fixtures incorporate a number of lamp technologies that include T-8, T-5, T-5HO and compact fluorescent.	85	
70	Metal Halide Specialty Lighting Fixtures with Electronic Ballast	\$50	Metal Halide Specialty Fixtures maybe track, recessed or surface mounted and used for high quality display type lighting. Fixtures range from 20 to 100 watts. Must be approved by UL or similar agency.	50	
80	LED Downlight Fixtures- Hard Wired	\$50	This incentive only applies to hardwired LED fixtures on Energy Star's list (for more information see www.energystar.gov)	25	
82A	LED Cooler or Freezer Case Fixtures – 5' Fixture	\$50	Eligible LED Cooler and Freezer Case fixtures are required to be listed on Energy Star, DesignLights Consortium or their utility's websites (for more information see www.energystar.gov and www.designlights.org)	30	





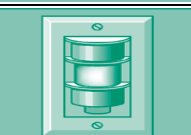

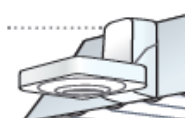
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Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	
82B	LED Cooler or Freezer Case Fixtures – 6’ Fixture	\$65	Eligible LED Cooler and Freezer Case fixtures are required to be listed on Energy Star, DesignLights Consortium or their utility’s websites (for more information see www.energystar.gov and www.designlights.org)	40	
83	LED Low Bay Fixtures	\$150	Only LED Low Bay fixtures installed in 8,760 hour applications are eligible for this incentive and must be listed on Energy Star, DesignLights Consortium or their utility’s websites (for more information see www.energystar.gov and www.designlights.org)	60	
◆			<p>Note: 4ft straight tube T8 lamps and ballasts must meet the Consortium for Energy Efficiency’s High Performance/Reduced Wattage (HP/RW) T8 specifications except where otherwise noted. For eligibility requirements and a list of eligible lamps and ballasts, log onto CEE’s web site at www.cee1.org. Log onto the NH Electric Utilities’ website for the list of 30 watt lamps also considered HP/RW T8 lamps.</p> <p><u>Note:</u> <u>2ft, 3ft and 4ft non standard linear T8 lamps including U bents when used in combination with CEE’s High Performance /Reduced Wattage T8 Ballast Specifications are considered HP/RW systems..</u></p>		

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Table A (cont.): Lighting Controls Incentives

Please note that only one incentive control strategy will be approved per fixture/area. Also consider using CEE qualified program start parallel wired ballasts for all appropriate control measure codes to ensure longer lamp life over instant start ballasts.

Measure Code	Measure Description	Per Control Incentive	Eligibility Criteria	Min Controlled Wattage	
61	Remote Mounted Occupancy Sensor	\$50	Ceiling mounted control with no manual “ON” overrides. Comply with manufacturer’s coverage recommendations.	110	
62	Daylight Dimming System (DDS-FL)	\$25 (per fixture)	Must have continuous dimming or adjust to a minimum of 4 levels. Typical lamping is either a 30 watt or 32 watt T8 lamp.	53 (per fixture)	
63	Occupancy Controlled Step-Dimming System	\$20 (per fixture)	Ballast must be automatically controlled based on occupancy. Power consumption in low mode must not exceed 60%.	53 (per fixture)	
64A	Wall mounted Occupancy Sensors	\$25	Occupancy Sensors must operate as Automatic On and off . Sensors are wall mounted devices only. Not eligible if installed in restrooms, locker rooms, stairwells or rooms of greater than 250 square feet	51	
64B	Wall mounted Vacancy Occupancy Sensors	\$30	Vacancy Sensors must operate as Manual ON, Automatic off . Sensors are wall mounted devices only. Not eligible if installed in restrooms, locker rooms, stairwells or rooms of greater than 250 square feet	51	
65	Photocell Sensors (lighting systems on 24/7)	\$45	Photocell control for lighting systems that operate on 24 hours a day, 7 days a week (8,760 hours annually)	70	
68	High Bay Fluorescent (HIF) Occupancy Control Systems	\$25 (per fixture)	Ballasts must be automatically controlled based on occupancy. Systems with manual “ON” or override switches are not eligible. Sensors to be mounted on individual fixtures only.	110 (per fixture)	

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Table C: Rated Lighting System Wattage Table

BX	Biax /Twin Tube Lamp	EE	Energy-Efficient Lamp	STD	Standard Ballast or Lamp
HW	Hard Wire Fixture	ELIG	Electronic Ballast	HO	High Output Lamp
EEMAG	Energy-Efficient Magnetic Balt.	LPF	Low Power Ballast Factor < 0.80	VHO	Very High Output Lamp
		HPF	High Power Ballast Factor > 1.0		

Existing Fixture Codes

Incandescent Lamps		
Device Code	Device Description	Rated Watts
1I0015	15W INC	15
1I0020	20W INC	20
1I0025	25W INC	25
1I0034	34W INC	34
1I0036	36W INC	36
1I0040	40W INC	40
1I0042	42W INC	42
1I0045	45W INC	45
1I0050	50W INC	50
1I0052	52W INC	52
1I0054	54W INC	54
1I0055	55W INC	55
1I0060	60W INC	60
1I0065	65W INC	65
1I0067	67W INC	67
1I0069	69W INC	69
1I0072	72W INC	72
1I0075	75W INC	75
1I0080	80W INC	80
1I0085	85W INC	85
1I0090	90W INC	90
1I0093	93W INC	93
1I0100	100W INC	100
1I0120	120W INC	120
1I0125	125W INC	125
1I0135	135W INC	135
1I0150	150W INC	150
1I0200	200W INC	200
1I0300	300W INC	300
1I0448	448W INC	448
1I0500	500W INC	500
1I0750	750W INC	750
1I1000	1000W INC	1000
1I1500	1500W INC	1500

Low Voltage Halogen Fixture (includes transformer)		
Device Code	Device Description	Rated Watts
1R0020	20W LV HALOGEN FIXT	30
1R0025	25W LV HALOGEN FIXT	35
1R0035	35W LV HALOGEN FIXT	45
1R0042	42W LV HALOGEN FIXT	52
1R0050	50W LV HALOGEN FIXT	60
1R0065	65W LV HALOGEN FIXT	75
1R0075	75W LV HALOGEN FIXT	85

Halogen/Quartz Lamps		
Device Code	Device Description	Rated Watts
1T0035	35W HALOGEN LAMP	35
1T0040	40W HALOGEN LAMP	40
1T0042	42W HALOGEN LAMP	42
1T0045	45W HALOGEN LAMP	45
1T0050	50W HALOGEN LAMP	50
1T0052	52W HALOGEN LAMP	52
1T0055	55W HALOGEN LAMP	55
1T0060	60W HALOGEN LAMP	60
1T0072	72W HALOGEN LAMP	72
1T0075	75W HALOGEN LAMP	75
1T0090	90W HALOGEN LAMP	90
1T0100	100W HALOGEN LAMP	100
1T0150	150W HALOGEN LAMP	150
1T0200	200W HALOGEN LAMP	200
1T0250	250W HALOGEN LAMP	250
1T0300	300W HALOGEN LAMP	300
1T0350	350W HALOGEN LAMP	350
1T0400	400W HALOGEN LAMP	400
1T0425	425W HALOGEN LAMP	425
1T0500	500W HALOGEN LAMP	500
1T0750	750W HALOGEN LAMP	750
1T0900	900W HALOGEN LAMP	900
1T1000	1000W HALOGEN LAMP	1000
1T1200	1200W HALOGEN LAMP	1200
1T1500	1500W HALOGEN LAMP	1500

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Existing Fixture Codes (cont.)

Mercury Vapor (MV)		
Device Code	Device Description	Rated Watts
1V0040S	40W MERCURY	50
1V0050S	50W MERCURY	75
1V0075S	75W MERCURY	95
1V0100S	100W MERCURY	120
1V0175S	175W MERCURY	205
1V0250S	250W MERCURY	290
1V0400S	400W MERCURY	455
1V0700S	700W MERCURY	775
1V1000S	1000W MERCURY	1075
2V0400S	2/400W MERCURY	880

Low Pressure Sodium (LPS)		
Device Code	Device Description	Rated Watts
1L0035S	35W LPS	60
1L0055S	55W LPS	85
1L0090S	90W LPS	130
1L0135S	135W LPS	180
1L0180S	180W LPS	230

High Pressure Sodium (HPS)		
Device Code	Device Description	Rated Watts
1H0035S	35W HPS	45
1H0050S	50W HPS	65
1H0070S	70W HPS	90
1H0100S	100W HPS	130
1H0150S	150W HPS	190
1H0200S	200W HPS	240
1H0225S	225W HPS	275
1H0250S	250W HPS	295
1H0310S	310W HPS	350
1H0360S	360W HPS	435
1H0400S	400W HPS	460
1H0600S	600W HPS	675
1H0750S	750W HPS	835
1H1000S	1000W HPS	1085

Metal Halide (MH)		
Device Code	Device Description	Rated Watts
1M0032S	32W METAL HALIDE	40
1M0050S	50W METAL HALIDE	65
1M0070S	70W METAL HALIDE	95
1M0100S	100W METAL HALIDE	120
1M0150S	150W METAL HALIDE	190
1M0175S	175W METAL HALIDE	205
1M0250S	250W METAL HALIDE	295
1M0360S	360W METAL HALIDE	430
1M0400S	400W METAL HALIDE	455
1M0750S	750W METAL HALIDE	825
1M1000S	1000W METAL HALIDE	1075
1M1500S	1500W METAL HALIDE	1615
1M1800S	1800W METAL HALIDE	1875

Two Foot T8, T12 and Biax Systems		
Device Code	Device Description	Rated Watts
1F20SSS	F20T12/HPF(1)	32
1F55BXE	1L2' F55BX/ELIG	56
1F80BXE	1L2' F80BX/ELIG	90
2F17SSL	2L2' T8/ELIG LPF	27
2F17SSE	2L2' T8/ELIG	37
2F17SSM	2L2' T8/EEMAG	45
2F20SSS	F20T12/HPF(2)	56
2F40BXE	2L2' F40BX/ELIG	72
2F24HSS	2L2' HO/STD/STD	85
2F50BXE	2L2' F50BX/ELIG	108
2F55BXE	2L2' F55BX/ELIG	112
3F17SSE	3L2' T8/ELIG	53
3F17SSL	3L2' T8/ELIG LPF	39
3F20SSS	F20T12/HPF(3)	78
3F24HSE	3L4' T5HO/ELIG	80
3F40BXE	3L2' F40BX/ELIG	102
3F50BXE	3L2' F50BX/ELIG	162
3F55BXE	3L2' F55BX/ELIG	168
4F17SSE	4L2' T8/ELIG	62
4F36BXE	4L2' F36BX/ELIG	148
4F40BXE	4L2' F40BX/ELIG	144
4F40BXH	4L 40W T5 (Std.) HPF	170
4F50BXE	4L2' F50BX/ELIG	216
4F55BXE	4L2' F55BX/ELIG	224
5F40BXE	5L2' F40BX/ELIG	190
5F50BXE	5L2' F50BX/ELIG	270
5F55BXE	5L2' F55BX/ELIG	280
6F36BXE	6L2' F36BX/ELIG	212
6F40BXE	6L2' F40BX/ELIG	204
6F50BXE	6L2' F50BX/ELIG	324
6F55BXE	6L2' F55BX/ELIG	336
8F36BXE	8L2' F36BX/ELIG	296
8F40BXE	8L2' F40BX/ELIG	288
8F50BXE	8L2' F50BX/ELIG	432
8F55BXE	8L2' F55BX/ELIG	448
9F36BXE	9L2' F36BX/ELIG	318
9F40BXE	9L2' F40BX/ELIG	306
9F50BXE	9L2' F50BX/ELIG	486
9F55BXE	9L2' F55BX/ELIG	504
12F40BE	12L2' F40BX/ELIG	408
12F50BE	12L2' F50BX/ELIG	648
12F55BE	12L2' F55BX/ELIG	672

Three Foot T8 Systems		
Device Code	Device Description	Rated Watts
1F25SSE	1L3' T8/ELIG	24
2F25SSE	2L3' T8/ELIG	47
3F25SSE	3L3' T8/ELIG	68
4F25SSE	4L3' T8/ELIG	88

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Existing Fixture Codes (cont.)

Two Foot T8 Systems		
Device Code	Device Description	Rated Watts
1F17EEL	1L2' 17W T8EE/ELEE LPF	14
1F17EEE	1L2' 17W T8EE/ELEE	17
2F17EEL	2L2' 17W T8EE/ELEE LPF	26
2F17EEE	2L2' 17W T8EE/ELEE	29
3F17EEL	3L2' 17W T8EE/ELEE LPF	38
3F17EEE	3L2' 17W T8EE/ELEE	44

Three Foot T12 Systems		
Device Code	Device Description	Rated Watts
1F30SEM	1L3' EE/EEMAG	38
1F30SES	1L3' EE/STD	42
1F30SSS	1L3' STD/STD	46
2F25SSM	2L3' T8/EEMAG	65
2F30SEE	2L3' EE/ELIG	49
2F30SEM	2L3' EE/EEMAG	66
2F30SES	2L3' EE/STD	73
2F30SSS	2L3' STD/STD	80
3F30SES	3L3' EE/STD	127
3F30SSS	3L3' STD/STD	140

Four Foot F48 T12 Systems		
Device Code	Device Description	Rated Watts
1F48SES	1L4' F48T12EE/STD	50
1F48SSS	1L4' F48T12/STD	60
2F48SES	2L4' F48T12EE/STD	82
2F48SSS	2L4' F48T12/STD	102
3F48SES	3L4' F48T12EE/STD	132
3F48SSS	3L4' F48T12/STD	162
4F48SES	4L4' F48T12EE/STD	164
4F48SSS	4L4' F48T12/STD	204

Four Foot F48HO T12 Systems		
Device Code	Device Description	Rated Watts
1F48HES	1L4' F48HO/EE/STD	80
1F48HSS	1L4' F48HO/STD/STD	85
2F48HES	2L4' F48HO/EE/STD	135
2F48HSS	2L4' F48HO/STD/STD	145
3F48HES	3L4' F48HO/EE/STD	215
3F48HSS	3L4' F48HO/STD/STD	230
4F48HES	4L4' F48HO/EE/STD	270
4F48HSS	4L4' F48HO/STD/STD	290

Four Foot F48VHO T12 Systems		
Device Code	Device Description	Rated Watts
1F48VES	1L4' F48VHO/EE/STD	123
1F48VSS	1L4' F48VHO/STD/STD	138
2F48VES	2L4' F48VHO/EE/STD	210
2F48VSS	2L4' F48VHO/STD/STD	240
3F48VES	3L4' F48VHO/EE/STD	333
3F48VSS	3L4' F48VHO/STD/STD	378
4F48VES	4L4' F48VHO/EE/STD	420
4F48VSS	4L4' F48VHO/STD/STD	480

Four Foot T12 Systems		
Device Code	Device Description	Rated Watts
1F40SEE	1L4' EE/ELIG	38
1F40SEM	1L4' EE/EEMAG	40
1F40SES	1L4' EE/STD	50
1F40SSE	1L4' STD/ELIG	46
1F40SSM	1L4' STD/EEMAG	50
1F40SSS	1L4' STD/STD	57
2F40SEE	2L4' EE/ELIG	60
2F40SEM	2L4' EE/EEMAG	70
2F40SES	2L4' EE/STD	80
2F40SSE	2L4' STD/ELIG	72
2F40SSM	2L4' STD/EEMAG	86
2F40SSS	2L4' STD/STD	94
3F40SEE	3L4' EE/ELIG	90
3F40SEM	3L4' EE/EEMAG	110
3F40SES	3L4' EE/STD	130
3F40SSE	3L4' STD/ELIG	110
3F40SSM	3L4' STD/EEMAG	136
3F40SSS	3L4' STD/STD	151
4F40SEE	4L4' EE/ELIG	120
4F40SEM	4L4' EE/EEMAG	140
4F40SES	4L4' EE/STD	160
4F40SSE	4L4' STD/ELIG	144
4F40SSM	4L4' STD/EEMAG	172
4F40SSS	4L4' STD/STD	188
6F40SSS	6L4' STD/STD	282

Four Foot T8 Systems		
Device Code	Device Description	Rated Watts
1F32SSL	1L4 T8/ELIG LPF	26
1F32SSE	1L4' T8/ELIG	30
1F32SSM	1L4' T8/EEMAG	37
2F32SSL	2L4 T8/ELIG LPF	52
2F32SSE	2L4' T8/ELIG	60
2F32SSH	2L4' T8/ELIG HPF	78
2F32SSM	2L4' T8/EEMAG	70
3F32SSL	3L4 T8/ELIG LPF	76
3F32SSE	3L4' T8/ELIG	88
3F32SSH	3L4' T8/ELIG HPF	112
3F32SSM	3L4' T8/EEMAG	107
4F32SSL	4L4 T8/ELIG LPF	98
4F32SSE	4L4' T8/ELIG	112
4F32SSH	4L4' T8/ELIG HPF	156
4F32SSM	4L4' T8/EEMAG	140
5F32SSE	5L4' T8/ELIG	148
5F32SSH	5L4' T8/ELIG HPF	190
6F32SSE	6L4' T8/ELIG	174
8F32SSH	8L4' T8/ELIG HPF	312

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Existing Fixture Codes (cont.)

Four Foot Tandem-Wired T8 Systems

Device Code	Device Description	Rated Watts
2W32SSE	2L4' TW T8/ELIG	30
2W32SSH	2L4' TW T8/HPF	39
2W40SEE	2L4' TW EE/ELIG	30
2W40SSE	2L4' TW STD/ELIG	36
2W59HSE	2L8' TW T8 HO/ELIG	80
2W59SSE	2L8' TW T8/ELIG	55
2W96HEE	2L8' TW HO-EE/ELIG	85
2W96HSE	2L8' TW HO-STD/ELIG	98
2W96SEE	2L8' TW EE/ELIG	55
2W96SSE	2L8' TW STD/ELIG	67
3W32SSE	3L4' TW T8/ELIG	29
4D17SSE	4L2' TW T8/ELIG	31
4D32EEE	4L4' DTW T8EE/ELIG	51
4D32EEL	4L4' DTW T8EE/ELEE LPF	45
4D32SSE	4L4' DTW T8/ELIG	53
4D32SSL	4L4 DTWT8/ELIG LPF	49
4W32SSE	4L4' TW T8/ELIG	27
4W32SSL	4L4 TWT8/ELIG LPF	25
6F32SSH	6L4' T8/ELIG HPF	234

Five Foot T8 / T12 Systems

1F40HSE	1L5' HO/STD/ELIG	59
1F60HSM	1L5' HO/STD/EEMAG	90
2F40HSE	2L5' HO/STD/ELIG	123
2F40TSE	2L5'T8/ELIG	68
2F60HSM	2L5' HO/STD/EEMAG	178
3F40TSE	3L5'T8/ELIG	106

Six Foot T 12 & T12 HO Systems

1F72SSM	1L6' STD/EEMAG	80
1F72SSS	1L6' STD/STD	95
1F72HSS	1L6' F72HO/STD/STD	113
2F72HSE	2L6'T8 HO/ELIG	160
2F72HSM	2L6' F72HO/STD/EEMAG	193
2F72HSS	2L6' F72HO/STD	195
2F72SSM	2L6' STD/EEMAG	135
2F72SSS	2L6' STD/STD	173

Eight Foot T12 HO Systems

1F96HES	1L8' HO/EE/STD	125
1F96HSS	1L8' HO/STD/STD	135
2F96HEE	2L8' HO/EE/ELIG	170
2F96HEM	2L8' HO/EE/EEMAG	207
2F96HES	2L8' HO/EE/STD	227
2F96HSE	2L8' HO/STD/ELIG	195
2F96HSM	2L8' HO/STD/EEMAG	237
2F96HSS	2L8' HO/STD/STD	257

Eight Foot T12 HO Systems (cont.)

Device Code	Device Description	Rated Watts
3F96HES	3L8' HO/EE/STD	352
3F96HSS	3L8' HO/STD/STD	392
4F96HEE	4L8' HO/EE/ELIG	340
4F96HEM	4L8' HO/EE/EEMAG	414
4F96HES	4L8' HO/EE/STD	454
4F96HSE	4L8' HO/STD/ELIG	390
4F96HSM	4L8' HO/STD/EEMAG	474
4F96HSS	4L8' HO/STD/STD	514

Eight Foot T12 VHO Systems

1F96VES	1L8' VHO/EE/STD	200
1F96VSS	1L8' VHO/STD/STD	230
2F96VES	2L8' VHO/EE/STD	390
2F96VSS	2L8' VHO/STD/STD	450
3F96VES	3L8' VHO/EE/STD	590
3F96VSS	3L8' VHO/STD/STD	680
4F96VES	4L8' VHO/EE/STD	780
4F96VSS	4L8' VHO/STD/STD	900

Eight Foot T8 Systems

1F59SSE	1L8' T8/ELIG	60
1F80SSE	1L8' T8 HO/ELIG	85
2F59SSE	2L8' T8/ELIG	109
2F59SSL	2L8' T8/ELIG LPF	100
2F80SSE	2L8' T8 HO/ELIG	160
1F96SEE	1L8' EE/ELIG	60
1F96SES	1L8' EE/STD	83
1F96SSE	1L8' STD/ELIG	70
1F96SSS	1L8' STD/STD	100
2F96SEE	2L8' EE/ELIG	109
2F96SEM	2L8' EE/EEMAG	123
2F96SES	2L8' EE/STD	138
2F96SSE	2L8' STD/ELIG	134
2F96SSM	2L8' STD/EEMAG	158
2F96SSS	2L8' STD/STD	173
3F96SES	3L8' EE/STD	221
3F96SSS	3L8' STD/STD	273
4F96SEE	4L8' EE/ELIG	218
4F96SEM	4L8' EE/EEMAG	246
4F96SES	4L8' EE/STD	276
4F96SSE	4L8' STD/ELIG	268
4F96SSM	4L8' STD/EEMAG	316
4F96SSS	4L8' STD/STD	346

Proposed Fixture Codes

High Efficiency MH Lamp/Ballast		
Device Code	Device Description	Rated Watts
1M0100P	100W MH CWA	128
1M0100R	100W MH Linear	118
1M0150P	150W MH CWA	190
1M0150R	150W MH Linear	172
1M0175P	175W MH CWA	208
1M0175R	175W MH Linear	190
1M0200P	200W CWA	232
1M0200R	200W LINEAR	218
1M0250P	250W CWA	288
1M0250R	250W MH LINEAR	265
1M0300P	300W CWA	342
1M0300R	300W Linear	324
1M0320P	320W CWA	365
1M0320R	320W LINEAR	345
1M0350P	350W CWA	400
1M0350R	350W LINEAR	375
1M0400P	400W CWA	455
1M0400R	400W LINEAR	430
1M0450P	450W MH CWA	508
1M0450R	450W MH LINEAR	480
1M0750P	750W MH CWA	815
1M0750R	750W MH Linear	805
1M1000P	1000W CWA	1080

MH Track Lighting		
Device Code	Device Description	Rated Watts
1M0035E	35W MH SPOT	44
1M0070E	70W MH SPOT	80
1M0100E	100W MH SPOT	111

LED Exit Signs		
Device Code	Device Description	Rated Watts
1E0002	2.0 WATT LED	2
1E0003	3.0 WATT LED	3
1E0005	5.0 WLED	5
1E0005C	0.5 WATT LEC	0.5
1E0008	8.0 WLED	8
1E0015	1.5 WATT LED	1.5
1E0105	10.5 WATT LED	10.5

Compact Fluorescents (CFL's)		
Device Code	Device Description	Rated Watts
1C0005S	5W COMPACT HW	7
1C0007S	7W COMPACT HW	9
1C0009S	9W COMPACT HW	11
1C0011S	11W COMPACT HW	13
1C0013S	13W COMPACT HW	15
1C0018E	18W COMPACT HW ELIG	20
1C0018S	18W COMPACT HW	20
1C0022S	22W COMPACT HW	24
1C0023E	1/23W COMPACT HW ELIG	25
1C0026E	26W COMPACT HW ELIG	28
1C0026S	26W COMPACT HW	28
1C0028S	28W COMPACT HW	30
1C0032S	32W CIRCLINE HW	34
1C0042E	1/42W COMPACT HW ELIG	48
1C0044S	44W CIRCLINE HW	46
1C0057E	1/57W COMPACT HW ELIG	65
1C2232S	22/32W CIRCLINE HW	58
1C2D10E	10W 2D COMPACT HW ELIG	12
1C2D16E	16W 2D COMPACT HW ELIG	18
1C2D21E	21W 2D COMPACT HW ELIG	22
1C2D28E	28W 2D COMPACT HW ELIG	28
1C2D38E	38W 2D COMP.HW ELIG	36
1C3240S	32/40W CIRCLINE HW	80
2C0005S	2/5W COMPACT HW	14
2C0007S	2/7W COMPACT HW	18
2C0009S	2/9W COMPACT HW	22
2C0011S	2/11W COMPACT HW	26
2C0013E	2/13W COMPACT HW ELIG	28
2C0013S	2/13W COMPACT HW	30
2C0018E	2/18W COMP. HW ELIG	40
2C0026E	2/26W COMP. HW ELIG	54
2C0032E	2'/32W COMPACT HW ELIG	68
2C0042E	2/42W COMPACT HW ELIG	100
3C0009S	3/9W COMPACT HW	33
3C0013S	3/13W COMPACT HW	45
3C0018E	3'/18W COMPACT HW ELIG	60
3C0026E	3/26W COMPACT HW ELIG	82
3C0032E	3/32W COMPACT HW ELIG	114
3C0042E	3/42W COMPACT HW ELIG	141
4C0018E	4/18W COMPACT HW ELIG	80
4C0026E	4/26W COMPACT HW ELIG	108
4C0032E	4/32W COMPACT HW ELIG	152
4C0042E	4/42W COMPACT HW ELIG	188
6C0026E	6/26W COMPACT HW ELIG	162
6C0032E	6/32W COMPACT HW ELIG	228
6C0042E	6/42W COMPACT HW ELIG	282
8C0026E	8/26W COMPACT HW ELIG	216
8C0032E	8/32W COMPACT HW ELIG	304
8C0042E	8/42W COMPACT HW ELIG	376

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Proposed Fixture Codes (cont.)

Two Foot Biax Systems (long twin tube lamps)		
Device Code	Device Description	Rated Watts
1F55BXE	1L2' F55BX/ELIG	56
1F80BXE	1L2' F80BXE/ELIG	90
2F40BXE	2L2' F40BX/ELIG	72
2F50BXE	2L2' F50BX/ELIG	108
2F55BXE	2L2'55BXE/ELIG	112
3F24HSE	3L4' T5HO/ELIG	80
3F40BXE	3L2' F40BX/ELIG	102
3F50BXE	3L2' F50BX/ELIG	162
3F55BXE	3L2' F55BX/ELIG	168
4F36BXE	4L2' F36BX/ELIG	148
4F40BXE	4L2' F40BX/ELIG	144
4F40BXH	4L 40W T5 (Std.) HPF	170
4F50BXE	4L2' F50BX/ELIG	216
4F55BXE	4L2' F55BX/ELIG	224
5F40BXE	5L2' F40BX/ELIG	190
5F50BXE	5L2' F50BX/ELIG	270
5F55BXE	5L2' F55BX/ELIG	280
6F36BXE	6L2' F36BX/ELIG	212
6F40BXE	6L2' F40BX/ELIG	204
6F50BXE	6L2' F50BX/ELIG	324
6F55BXE	6L2' F55BX/ELIG	336
8F36BXE	8L2' F36BX/ELIG	296
8F40BXE	8L2' F40BX/ELIG	288
8F50BXE	8L2' F50BX/ELIG	432
8F55BXE	8L2' F55BX/ELIG	448
9F36BXE	9L2' F36BX/ELIG	318
9F40BXE	9L2' F40BX/ELIG	306
9F50BXE	9L2' F50BX/ELIG	486
9F55BXE	9L2' F55BX/ELIG	504
12F40BE	12L2' F40BX/ELIG	408
12F50BE	12L2' F50BX/ELIG	648
12F55BE	12L2' F55BX/ELIG	672

T5 Systems		
Device Code	Device Description	Rated Watts
1F14SSE	1L2' T5/ELIG	16
1F21SSE	1L3' T5/ELIG	24
1F24HSE	1L2'24W T5HO/ELIG	29
1F28SSE	1L4' T5/ELIG	32
1F39HSE	1L3' T5 HO/ELIG	42
1F54HSE	1L4' T5 HO/ELIG	59
2F14SSE	2L2' T5/ELIG	34
2F24HSE	2L2' T5HO/ELIG	52
2F21SSE	2L3' T5/ELIG	47
2F28SSE	2L4' T5/ELIG	63
2F39HSE	2L3' T5 HO/ELIG	85
2F54HSE	2L4' T5 HO/ELIG	117
3F54HSE	3L4' T5 HO/ELIG	177
4F54HSE	4L 54W T5 HO	234
5F54HSE	5L4' T5 HO/ELIG	294
6F54HSE	6L 54W T5 HO	351
8F54HSE	8L4' T5 HO/ELIG	468
10F54HSE	10L' 54W T5HO	585

Four Foot Tandem Wired T8 High Performance Systems		
Device Code	Device Description	Rated Watts
2W32EEL	2L4' TW T8EE/ELEE LPF	24
2W32EEE	2L4' TW T8EE/ELEE	27
3W32EEL	3L4' TW T8EE/ELEE LPF	34
3W32EEE	3L4' TW T8EE/ELEE	39
4W32EEL	4L4' TW T8EE/ELEE LPF	45
4W32EEE	4L4' TW T8EE/ELEE	51

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Proposed Fixture Codes (cont.)

Four Foot T8 HP/RW Systems		
Device Code	Device Description	Rated Watts
1F25EEH	1L4' 25W T8EE/EELE HPF	30
1F25EEE	1L4' 25W T8EE/ELEE	22
1F25EEL	1L4' 25W T8EE/ELEE LPF	19
2F25EEH	2L4' 25W T8EE/EELE HPF	57
2F25EEE	2L4' 25W T8EE/ELEE	43
2F25EEL	2L4' 25W T8EE/ELEE LPF	37
3F25EEH	3L4' 25W T8EE/EELE HPF	86
3F25EEE	3L4' 25W T8EE/ELEE	64
3F25EEL	3L4' 25W T8EE/ELEE LPF	57
4F25EEH	4L4' 25W T8EE/EELE HPF	111
4F25EEE	4L4' 25W T8EE/ELEE	86
4F25EEL	4L4' 25W T8EE/ELEE LPF	75
1F28EEH	1L4' 28W T8EE/EELE HPF	33
1F28EEE	1L4' 28W T8EE/ELEE	24
1F28EEL	1L4' 28W T8EE/ELEE LPF	22
2F28EEH	2L4' 28WT8EE/EELE HPF	64
2F28EEE	2L4' 28W T8EE/ELEE	48
2F28EEL	2L4' 28W T8EE/ELEE LPF	42
3F28EEH	3L4' 28W T8EE/EELE HPF	96
3F28EEE	3L4' 28W T8EE/ELEE	72
3F28EEL	3L4' 28W T8EE/ELEE LPF	63
4F28EEH	4L4' 28W T8EE/EELE HPF	126
4F28EEE	4L4' 28W T8EE/ELEE	94
4F28EEL	4L4' 28W T8EE/ELEE LPF	83

Four Foot T8 HP/RW Systems (cont.)		
Device Code	Device Description	Rated Watts
1F30EEH	1L4' 30W T8EE/EELE HPF	36
1F30EEE	1L4' 30W T8EE/ELEE	26
1F30EEL	1L4' 30W T8EE/ELEE LPF	24
2F30EEH	2L4' 30WT8EE/EELE HPF	69
2F30EEE	2L4' 30W T8EE/ELEE	52
2F30EEL	2L4' 30W T8EE/ELEE LPF	45
3F30EEH	3L4' 30W T8EE/EELE HPF	103
3F30EEE	3L4' 30W T8EE/ELEE	77
3F30EEL	3L4' 30W T8EE/ELEE LPF	68
4F30EEH	4L4' 30W T8EE/EELE HPF	133
4F30EEE	4L4' 30W T8EE/ELEE	101
4F30EEL	4L4' 30W T8EE/ELEE LPF	89
1F32EEH	1L4' T8EE/ELEE LPF	38
1F32EEE	1L4' T8EE/ELEE	28
1F32EEL	1L4' T8EE/ELEE LPF	25
2F32EEH	2L4' T8EE/ELEE HPF	73
2F32EEE	2L4' T8EE/ELEE	53
2F32EEL	2L4' T8EE/ELEE LPF	47
3F32EEH	3L4' T8EE/ELEE/HPF	109
3F32EEE	3L4' T8EE/ELEE	82
3F32EEL	3L4' T8EE/ELEE LPF	72
4F32EEH	4L4' T8EE/ELEE HPF	141
4F32EEE	4L4' T8EE/ELEE	107
4F32EEL	4L4' T8EE/ELEE LPF	95
5F32EEH	5L4' T8EE/ELEE HPF	182
6F32EEH	6L4' T8EE/ELEE HPF	218
8F32EEH	8L4' T8EE/ELEE HPF	282