

## 2009 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 non code 10 fixture cutsheets/specifications including photometric tables must be submitted and reviewed by the utility to verify compliance with technical requirements.
3. Invoices will be required for payment of rebates.

#### **Eligibility Requirements:**

1. Each lighting efficiency measure must meet the efficiency and technical specifications found in Tables A and B. Fixture efficiency ratings can be found on fixture photometric reports, and 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 measures are intended to reduce the lighting system's energy demand and consumption while delivering equal or improved light level and quality. All lighting systems retrofits shall be accordance with IES recommended indoor lighting guidelines.
3. The existing lighting must 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. When replacing ballasts, follow manufacturer's installation and wiring guidelines
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 existing total fixture watts and the new total replacement fixture watts/quantity of new fixtures.
7. Control measure minimum watts are the average total watts controlled per controller.
8. Outdoor lighting will be considered as a custom measure & must pass benefit cost test to be eligible for a rebate.

#### **Existing Lighting Systems Inventory**

1. A detailed room-by-room inventory should be submitted documenting all existing fixtures that are 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. (See Table C, Lighting Systems Inventory sheet for sample form).
2. Existing Lighting Codes can be found on Table D – Existing Fixture Code section of these instructions.

#### **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 (see Table D, Existing Fixture Code List) and then listed on the Lighting Rebate Worksheet.
3. Complete the lighting or lighting controls rebate worksheet as shown below.
4. Fill out a separate line for each unique combination of existing fixture code (see Table D), hours of operation and proposed fixture code (see Table E).
5. Fill out a separate line for each lighting control measure including control description, quantity of fixtures controlled, and hours of reduction for each device proposed (refer to Table A for measure code and rebate amount).
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 operate. 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, 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 table:

RETROFIT LIGHTING REBATE WORKSHEET										
EXISTING LIGHTING					NEW LIGHTING					
Item	Existing Fixture Code	Fixture Description	Quantity (A)	Annual Hours of Operation	Measure Code	Retrofit Fixture Code	Fixture Description	Quantity of Fixtures	Per Unit Rebate \$ (B)	Total Rebate (\$)
<i>Ex.</i>	3F40SSS	3L4'STD/STD	34	4,200	30 A	3F32EEE	3L4'T8 EE/ELEE	34	\$30+\$10	\$1,360
1	See Table D	See Table D	Quantity of fixtures removed	From Customer or Utility Rep.	See Table A	See Table E	See Table E	Quantity of fixtures installed	See Table A	A x B

Explanation of how to fill out table:

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 \$
<i>Ex.</i>	61	Occ. Sensor	6	3F32SSE	12	1,750	\$55	\$330
1	See Table A	See Table A	Quantity of fixtures installed	New fixtures that will be controlled – Table E	Quantity of fixtures being controlled	From Customer or Utility Representative	See Table A	A x B

### 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 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. All lighting fixtures and controls require an invoice showing fixture manufacturer, model, and number of lamps, ballast specifications (if applicable), fixture quantities and costs.
2. Code 30 - Verify installed fixture(s), specifications meet the program criteria.
3. Code 32 - Verify installed fixture(s), specifications meet the program criteria.
4. Code 41 and 42 - Provide documentation showing fixture interior surface meets minimum reflectivity of 87%.
5. Code 21, 22, 23 - Lamps must be Compact Fluorescent Lamps (CFL) and ballasts must be magnetic with >90% Power Factor (PF) or electronic with <33% Total Harmonic Distortion (THD).

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### **Fluorescent Ballasts and Installation Guidelines**

For customers participating in New Hampshire's 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 State and Federal efficiency standards.
2. Total harmonic distortion (THD) of 20% or less.
3. UL Listed, National Electrical Code Section 410.
4. Power factor greater than 90%.
5. Ballast Crest Factor shall not exceed 1.7.
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 operating frequency should be above 20,000 Hz.
8. Ballast shall meet FCC requirements for RFI or EMI interference in commercial and industrial applications.
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 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 adversely affect lamp life.
  - b. Ballasts designed to power 4', 3' or 2' T8's are most efficient when powering the 4' 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, or preferably a 5 year warranty. Some manufacturers will also provide a labor cost reimbursement, for defective ballasts requiring replacement while under warranty.

## 2009 Lighting Rebate

### Lighting Fixtures and Systems - Efficiency Improvement Opportunities

The following table lists the rebates available for retrofit interior energy efficient lighting improvements.

**Table A: Lighting System Rebates \*\* Note 2009 is the last year for standard T8 systems incentives \*\***

Measure	Measure Code	Description	Per Fixture	
			Rebate Amount	Min Watts Reduction
Lamp & Ballast Retrofit	10	Replace T12 lamps & ballast with new standard efficiency T8 lamps & ballast, or upgrade existing T8 to HP T8 lamp and HP ballast.	\$10	10
Lamp & Ballast Retrofit	10 A	Replace T12 lamps and ballast with new High Performance (HP) T8 lamps and HP ballast	\$20	10
Tandem Wired Lamp & Ballast Retrofit	11	Same as Code 10 except applies to a pair tandem wired fixtures	\$15	20
Tandem Wired Lamp & Ballast Retrofit	11 A	Same as Code 10 A except applies to a pair tandem wired fixtures with HP lamps and ballast	\$25	20
High Efficiency Fluorescent Fixtures	30 ♦	Recessed (or surface mounted) Troffer Fixtures	\$30	19
	32 ♦	Recessed or surface mounted Low Glare Troffer Fixtures	\$35	25
Fluorescent Fixtures With Reflectors	41 ♦	4 ft. Non-recessed/Open Fixtures	\$20	11
	42 ♦	8 ft. Non-recessed/Open Fixtures	\$25	13
Compact Fluorescent Fixtures	21	Hard-wired Compact Fluorescent Fixtures	\$25	31
	23	Dimmable Compact Fluorescent Fixtures	\$40	50
LED or LEC Exit Sign Fixtures	24	LED or LEC – Retrofit	\$12	5
	25	New LED or LEC (Electroluminescence) Exit Sign	\$20	7
HID Interior Fixtures	51	Pulse Start Metal Halide Lamp and Ballast Kits	\$40	29
	52	New Pulse Start Metal Halide Fixtures	\$60	51
	55	New High Pressure Sodium Fixtures	\$70	41
High Intensity Fluorescent Fixtures	56 ♦	New > 125 w & < 220 w low bay fluorescent fixtures	\$70	56
	57 ♦	New => 220 w high bay fluorescent fixtures	\$100	84
Specialty Lighting Fixtures	70	New Low wattage metal halide fixtures for retail or display lighting	\$90	50
High Performance T8 Lamps & Ballasts ♦	xx A	Upgrade standard T8 lamps and ballasts to "High Performance" (HP) T 8 lamps & HP T8 ballast	Add \$10	
♦ These items are also eligible for an additional "High Performance T 8 lamps and HP T8 Ballast" incentive/rebate under code " xx A "			Rebate Amount	Min. Controlled Watts
Controls For Fluorescent Systems  (limit - one control incentive per measure)	61	Remote-Mount, Daylight or Occ. Sensor (per control)	\$55	160
	62	Daylight Dimming System (DDS-FL) (per fixture)	\$35	55
	63	Occupancy Controlled High-Low System (per fixture)	\$35	55
	64	Wall mount & fixture Occupancy Sensors(per control)	\$25	109
Controls For H.I.D. Lighting Systems	66	Occupancy Controlled High-Low System (per fixture)	\$90	291
	67	Daylight Dimming System (DDS-HID) (per fixture)	\$90	169
			<b>Per Lamp</b>	
LED Traffic Signals	26	Red Traffic Light & Flashing Red lights	\$60	44
	27,28,29	Flashing Amber, Green Traffic Arrow, Ped Light	\$80	60

\*\*\* Sensor Note: Program Start Ballast are recommended on fluorescent T8 fixtures for longer lamp life \*\*\*

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**Table B: Eligibility Requirements for Interior Fixtures**

Code 10 Relamp & reballast		Each T 12 to T 8 fixture retrofit is composed of a electronic ballast and 1 to 4 lamps. One rebate per fixture. This also applies to T8 to HP T8 lamp & HP ballast changes & when HP ballasts are used with non 4' lamps ( 2', 3', U bents, cold apps.). Applies to T5 systems also
Code 10 A Relamp & reballast		Each T 12 to HP T8 fixture retrofit is composed of a HP ballast and 1, 2, 3, or 4 HP lamps. Only one rebate per fixture. This also applies when HP ballasts are used with non 4' lamp ( 2', 3', U bents, cold apps.).
Code 11 & 11A Tandem Wired		Same as Code 10 and 10 A except it applies to pairs of tandem wired fixtures.
Code 30 High Efficiency Fluorescent Fixtures		Fixtures must be recessed or surface mounted troffer type. Overall fixture efficiency must exceed 83% for prismatic lensed fixtures, 75% for parabolic lensed fixtures, 70% for 2x2 parabolic or 70% for 2x2 and 2x4 indirect recessed fixtures. Wrap, strip or industrial hooded fixtures are not eligible. Each fixture is composed of a ballast & 1 - 4 lamps. Applies to T5 systems also <b>Upgrade fixtures to qualifying High Performance (HP) T8 lamps &amp; ballast for an additional \$10 per ballast.(Product Code30A)</b>
Code 32 Low Glare High Efficiency Fluorescent Fixtures		Parabolic type fixtures must exceed 64% fixture efficiency. Low glare parabolic fixtures require a 4" or 5" deep cell louver. Low glare non-parabolic fixtures must exceed 83% efficiency. Each fixture is composed of a ballast and 1 - 4 lamps. Each new fixture must be designed to meet IES Low Glare Standard RP-1. Applies to T5 systems also <b>Upgrade fixtures to qualifying HP T8 lamps &amp; ballast for an additional \$10 per ballast. (Product Code 32 A)</b>
Code 41, 42 Industrial Fluorescent Fixtures With Reflectors		Each must include a new custom reflector. Reflectors shall have a minimum reflectivity of 87% and have no greater than 20% uplight (with light colored ceiling). All fixtures must use T8 or T5 lamps & ballasts and be open type fixtures. Wrap around type fixtures with optional internal silver or aluminum reflectors may be eligible. Optional reflectors must improve fixture efficiency and minimize uplight. Open reflector type fixtures should not be used industry, dirty or other hazardous industrial environments. Applies to T5 systems also <b>Upgrade fixtures to qualifying HP T8 lamps &amp; ballast for an additional \$10 per ballast. (Product Code xx A)</b>
Code 21, 23 Compact Fluorescent Fixtures		To be eligible for rebates, all fixtures must have High Power Factor (90% or higher) magnetic or eligible electronic ballasts. Each fixture must contain a new lamp(s) and a new ballast. Compact fluorescent lamp/ballasts must be <33% total harmonic distortion. The following are not eligible: retrofit kits, screw-in adapters, and exit signs.
Code 24, 25 LED or LEC Exit Sign Fixture		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. Hardwired Retrofit kits are eligible for rebates.
Code 51 HID Fixtures, (MHPS, HPS)	51	All kits must include a new matched Metal Halide Pulse Start (MHPS) lamp and ballast installed per the manufacturer's specifications and applicable codes.
	52	This rebate applies to an entirely new Metal Halide Pulse Start Fixture. Existing Metal Halide fixtures with lamp wattage under 200 W and existing exterior HPS fixtures are not eligible under codes 51 / 52
	55	High Pressure Sodium fixtures are more energy efficient than Metal Halide fixtures.
Code 56 High Intensity Fluorescent (HID replacements only)	56	Fluorescent replacements for MH, HPS & MV. Low bay interior fixtures must have T8 lamps with High Ballast Factor ballast or T-5's meeting a min. fixture efficiency of 88% unless the application has a special lens or fixture requirement. Minimum watts of 125, maximum of 219 watts & recommended >16 feet above the floor. <b>Use Code 56A to identify HP lamps and HP ballast lighting systems.</b>
	57	Fluorescent replacements for MH, HPS & MV High bay interior fixtures must have T8 lamps with High Ballast Factor ballast or T-5's meeting a min. fixture efficiency of 88% unless the application has a special lens or fixture requirement. Minimum fixture watts of 220 watts & recommended >20 feet above the floor. <b>Use Code 57A to identify HP lamps and HP ballast lighting systems.</b>
Code 70 MH Specialty Fixtures		Metal Halide Specialty Fixtures may be track, recessed or surface mounted and used for High quality display type lighting. Fixtures range from 20-100 watts.
xxA – High Performance T8 Lamps & Ballasts Fixtures ◆		This measure is for upgrading fixtures to new "High Performance" (HP) T 8 lamps & HP ballasts. Thirty Two (32) w HP T 8 lamps / ballast lighting systems reference lighting systems listed on CEE website ( <a href="http://www.CEE1.org">www.CEE1.org</a> ). Thirty (30) w HP T8 lamps are listed on utilities websites & when used in conjunction with HP T8 ballast are eligible for HP T8 rebates. Lighting systems shall be in accordance with IES Indoor Recommended Guidelines. <b>An "A" is used to identify HP lamps &amp; HP ballast systems.</b>
Code 61 Controls for Fluorescent Systems	61	Comply with manufacturer's coverage recommendations. On / Off controls with no manual "ON" overrides are eligible. Wall switch type are not eligible
	62	Must have continuous dimming or adjust to a minimum of 4 levels. No ON/OFF control. Minimum 4 fixtures controlled.
	63	Ballast must be automatically controlled based on occupancy. Systems with manual "ON" or override switches are not eligible. Power consumption in Low mode must not exceed 60%. Individual fixture controls are eligible.
	64	Not recommended if installed in restrooms, locker rooms, stairwells or rooms greater than 250 square feet.
Code 66, 67 HID Lighting Controls		Ballasts must be automatically controlled based on occupancy. Systems with manual "ON" or override switches are not eligible.
Code 26, 27, 28, 29 LED Traffic Signals		All materials and installations shall comply with all applicable federal, state and local codes including standards for traffic lights or controls. Flashing red and yellow traffic lights and green arrows are eligible.



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**Table D: Existing Fixture Codes**

<u>Code</u>	<u>Description</u>	<u>Rated Watts</u>	<u>Code</u>	<u>Description</u>	<u>Rated Watts</u>
<b><u>Incandescent Lamps</u></b>			<b><u>Halogen/Quartz Lamps</u></b>		
110015	15W INC	15	1T0035	35W HALOGEN LAMP	35
110020	20W INC	20	1T0040	40W HALOGEN LAMP	40
110025	25W INC	25	1T0042	42W HALOGEN LAMP	42
110030	30W INC	30	1T0045	45W HALOGEN LAMP	45
110034	34W INC	34	1T0050	50W HALOGEN LAMP	50
110036	36W INC	36	1T0052	52W HALOGEN LAMP	52
110040	40W INC	40	1T0055	55W HALOGEN LAMP	55
110042	42W INC	42	1T0060	60W HALOGEN LAMP	60
110045	45W INC	45	1T0072	72W HALOGEN LAMP	72
110050	50W INC	50	1T0075	75W HALOGEN LAMP	75
110052	52W INC	52	1T0090	90W HALOGEN LAMP	90
110054	54W INC	54	1T0100	100W HALOGEN LAMP	100
110055	55W INC	55	1T0150	150W HALOGEN LAMP	150
110060	60W INC	60	1T0200	200W HALOGEN LAMP	200
110065	65W INC	65	1T0250	250W HALOGEN LAMP	250
110067	67W INC	67	1T0300	300W HALOGEN LAMP	300
110069	69W INC	69	1T0350	350W HALOGEN LAMP	350
110072	72W INC	72	1T0400	400W HALOGEN LAMP	400
110075	75W INC	75	1T0425	425W HALOGEN LAMP	425
110080	80W INC	80	1T0500	500W HALOGEN LAMP	500
110085	85W INC	85	1T0750	750W HALOGEN LAMP	750
110090	90W INC	90	1T0900	900W HALOGEN LAMP	900
110093	93W INC	93	1T1000	1000W HALOGEN LAMP	1000
110100	100W INC	100	1T1200	1200W HALOGEN LAMP	1200
110120	120W INC	120	1T1500	1500W HALOGEN LAMP	1500
110125	125W INC	125	<b><u>Low Voltage Halogen</u></b>		
110135	135W INC	135	1R0020	20W LV HALOGEN FIXT	30
110150	150W INC	150	1R0025	25W LV HALOGEN FIXT	35
110200	200W INC	200	1R0035	35W LV HALOGEN FIXT	45
110300	300W INC	300	1R0042	42W LV HALOGEN FIXT	52
110448	448W INC	448	1R0050	50W LV HALOGEN FIXT	60
110500	500W INC	500	1R0065	65W LV HALOGEN FIXT	75
110750	750W INC	750	1R0075	75W LV HALOGEN FIXT	85
111000	1000W INC	1000			
111500	1500W INC	1500			

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Table D: Existing Fixture Codes (continued)

<u>Code</u>	<u>Description</u>	<u>Rated Watts</u>	<u>Code</u>	<u>Description</u>	<u>Rated Watts</u>
<b><u>Two Foot Fluorescent Systems</u></b>			<b><u>Four Foot T8 Systems</u></b>		
1F20SSS	F20T12/HPF(1)	32	1F32SSM	1L4' T8/EEMAG	37
2F20SSS	F20T12/HPF(2)	56	2F32SSM	2L4' T8/EEMAG	70
3F20SSS	F20T12/HPF(3)	78	3F32SSM	3L4' T8/EEMAG	107
2F17SSM	2L2' T8/EEMAG	45	4F32SSM	4L4' T8/EEMAG	140
2F24HSS	2L2' HO/STD/STD	85			
<b><u>Three Foot Fluorescent Systems</u></b>			<b><u>Four Foot F48 Systems</u></b>		
1F30SSS	1L3' STD/STD	46	1F48SSS	1L4' F48T12/STD	60
2F30SSS	2L3' STD/STD	80	2F48SSS	2L4' F48T12/STD	102
3F30SSS	3L3' STD/STD	140	3F48SSS	3L4' F48T12/STD	162
1F30SES	1L3' EE/STD	42	4F48SSS	4L4' F48T12/STD	204
2F30SES	2L3' EE/STD	73	1F48SES	1L4' F48T12EE/STD	50
3F30SES	3L3' EE/STD	127	2F48SES	2L4' F48T12EE/STD	82
1F30SEM	1L3' EE/EEMAG	38	3F48SES	3L4' F48T12EE/STD	132
2F30SEM	2L3' EE/EEMAG	66	4F48SES	4L4' F48T12EE/STD	164
2F25SSM	2L3' T8/EEMAG	65			
<b><u>Four Foot Fluorescent Systems</u></b>			<b><u>Four Foot F48HO Systems</u></b>		
1F40SSS	1L4' STD/STD	57	1F48HSS	1L4' F48HO/STD/STD	85
2F40SSS	2L4' STD/STD	94	2F48HSS	2L4' F48HO/STD/STD	145
3F40SSS	3L4' STD/STD	151	3F48HSS	3L4' F48HO/STD/STD	230
4F40SSS	4L4' STD/STD	188	4F48HSS	4L4' F48HO/STD/STD	290
1F40SSM	1L4' STD/EEMAG	50	1F48HES	1L4' F48HO/EE/STD	80
2F40SSM	2L4' STD/EEMAG	86	2F48HES	2L4' F48HO/EE/STD	135
3F40SSM	3L4' STD/EEMAG	136	3F48HES	3L4' F48HO/EE/STD	215
4F40SSM	4L4' STD/EEMAG	172	4F48HES	4L4' F48HO/EE/STD	270
1F40SES	1L4' EE/STD	50			
2F40SES	2L4' EE/STD	80	<b><u>Four Foot F48VHO Systems</u></b>		
3F40SES	3L4' EE/STD	130	1F48VSS	1L4' F48VHO/STD/STD	138
4F40SES	4L4' EE/STD	160	2F48VSS	2L4' F48VHO/STD/STD	240
6F40SSS	6L4' STD/STD	282	3F48VSS	3L4' F48VHO/STD/STD	378
1F40SEM	1L4' EE/EEMAG	40	4F48VSS	4L4' F48VHO/STD/STD	480
2F40SEM	2L4' EE/EEMAG	70	1F48VES	1L4' F48VHO/EE/STD	123
3F40SEM	3L4' EE/EEMAG	110	2F48VES	2L4' F48VHO/EE/STD	210
4F40SEM	4L4' EE/EEMAG	140	3F48VES	3L4' F48VHO/EE/STD	333
			4F48VES	4L4' F48VHO/EE/STD	420
			<b><u>Five Foot T8 Systems</u></b>		
			1F60HSM	1L5' HO/STD/EEMAG	90
			2F60HSM	2L5' HO/STD/EEMAG	178

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Table D: Existing Fixture Codes (continued)

<u>Code</u>	<u>Description</u>	<u>Rated Watts</u>	<u>Code</u>	<u>Description</u>	<u>Rated Watts</u>
<b><u>Six Foot Systems</u></b>			<b><u>Metal Halide</u></b>		
1F72SSS	1L6' STD/STD	95	1M0032S	32W METAL HALIDE	40
2F72SSS	2L6' STD/STD	173	1M0050S	50W METAL HALIDE	65
1F72SSM	1L6' STD/EEMAG	80	1M0070S	70W METAL HALIDE	95
2F72SSM	2L6' STD/EEMAG	135	1M0100S	100W METAL HALIDE	120
1F72HSS	1L6' HO/STD/STD	113	1M0150S	150W METAL HALIDE	190
2F72HSS	2L6' HO/STD/STD	195	1M0175S	175W METAL HALIDE	205
2F72HSM	2L6' HO/STD/EEMAG	193	1M0250S	250W METAL HALIDE	295
			1M0360S	360W METAL HALIDE	430
			1M0400S	400W METAL HALIDE	455
<b><u>Eight Foot Systems</u></b>			1M0750S	750W METAL HALIDE	825
1F96SSS	1L8' STD/STD	100	1M1000S	1000W METAL HALIDE	1075
2F96SSS	2L8' STD/STD	173	1M1500S	1500W METAL HALIDE	1615
3F96SSS	3L8' STD/STD	273	1M1800S	1800W METAL HALIDE	1875
4F96SSS	4L8' STD/STD	346			
2F96SSM	2L8' STD/EEMAG	158	<b><u>High Pressure Sodium</u></b>		
4F96SSM	4L8' STD/EEMAG	316	1H0035S	35W HPS	45
1F96SES	1L8' EE/STD	83	1H0050S	50W HPS	65
2F96SES	2L8' EE/STD	138	1H0070S	70W HPS	90
3F96SES	3L8' EE/STD	221	1H0100S	100W HPS	130
4F96SES	4L8' EE/STD	276	1H0150S	150W HPS	190
2F96SEM	2L8' EE/EEMAG	123	1H0200S	200W HPS	240
4F96SEM	4L8' EE/EEMAG	246	1H0225S	225W HPS	275
			1H0250S	250W HPS	295
<b><u>Eight Foot HO Systems</u></b>			1H0310S	310W HPS	350
1F96HSS	1L8' HO/STD/STD	135	1H0360S	360W HPS	435
2F96HSS	2L8' HO/STD/STD	257	1H0400S	400W HPS	460
3F96HSS	3L8' HO/STD/STD	392	1H0600S	600W HPS	675
4F96HSS	4L8' HO/STD/STD	514	1H0750S	750W HPS	835
2F96HSM	2L8' HO/STD/EEMAG	237	1H1000S	1000W HPS	1085
4F96HSM	4L8' HO/STD/EEMAG	474			
1F96HES	1L8' HO/EE/STD	125	<b><u>Mercury Vapor</u></b>		
2F96HES	2L8' HO/EE/STD	227	1V0040S	40W MERCURY	50
3F96HES	3L8' HO/EE/STD	352	1V0050S	50W MERCURY	75
4F96HES	4L8' HO/EE/STD	454	1V0075S	75W MERCURY	95
2F96HEM	2L8' HO/EE/EEMAG	207	1V0100S	100W MERCURY	120
4F96HEM	4L8' HO/EE/EEMAG	414	1V0175S	175W MERCURY	205
			1V0250S	250W MERCURY	290
<b><u>Eight Foot VHO Systems</u></b>			1V0400S	400W MERCURY	455
1F96VSS	1L8' VHO/STD/STD	230	1V0700S	700W MERCURY	775
2F96VSS	2L8' VHO/STD/STD	450	1V1000S	1000W MERCURY	1075
3F96VSS	3L8' VHO/STD/STD	680	2V0400S	2/400W MERCURY	880
4F96VSS	4L8' VHO/STD/STD	900			
1F96VES	1L8' VHO/EE/STD	200			
2F96VES	2L8' VHO/EE/STD	390			
3F96VES	3L8' VHO/EE/STD	590			
4F96VES	4L8' VHO/EE/STD	780			

## 2009 Lighting Rebate

**Table E: New Fixture Codes**

**Measure Code 10 & 11 – Re-lamp/Re-ballast Fluorescent Fixtures**

Note: ★ = Codes to be used for Code 11 Rebate    ◆ = Codes to be used for 30 & 32 watt “HP T8’s”

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1F17SSE	1L2'T8/ELIG	17	2F59SSE	2L8'T8/ELIG	109
1F25SSE	1L3'T8/ELIG	24	2F59SSL	2L8' T8/ELIG LBF	100
1F25EEE	1L4'T8EE/ELEE	22	2F72HSE	2L6'T8 HO/ELIG	160
1F25EEL	1L4'T8EE/ELEE LBF	20	2F80SSE	2L8'T8 HO/ELIG	160
1F25EEH	1L4'T8EE/ELEE HBF	30	3F17SSE	3L2' T8/ELIG	53
1F28EEE	1L4'T8EE/ELEE	24	3F25SSE	3L3' T8/ELIG	68
1F28EEL	1L4'T8EE/ELEE LBF	22	3F25EEE	3L4'T8EE/ELEE	67
1F28EEH	1L4'T8EE/ELEE HBF	33	3F25EEL	3L4'T8EE/ELEE LBF	56
1F30EEE ◆	1L4'T8EE/ELEE	27	3F25EEH	3L4'T8EE/ELEE HBF	87
1F30EEL ◆	1L4'T8EE/ELEE LBF	24	3F28EEE	3L4'T8EE/ELEE	72
1F30EEH ◆	1L4'T8EE/ELEE HBF	37	3F28EEL	3L4'T8EE/ELEE LBF	62
1F32EEE ◆	1L4' T8EE/ELEE	28	3F28EEH	3L4'T8EE/ELEE HBF	96
1F32EEL ◆	1L4' T8EE/ELEE LBF	25	3F30EEE ◆	3L4'T8EE/ELEE	81
1F32EEH ◆	1L4' T8EE/ELEE HBF	38	3F30EEL ◆	3L4'T8EE/ELEE LBF	69
1F32SSE	1L4' T8/ELIG	30	3F30EEH ◆	3L4'T8EE/ELEE HBF	106
1F32SSL	1L4 T8/ELIG LBF	26	3F32EEE ◆	3L4' T8EE/ELEE	82
1F40BXE	1L2' F40BX/ELIG	46	3F32EEL ◆	3L4' T8EE/ELEE LBF	72
1F50BXE	1L2' F50BX/ELIG	54	3F32EEH◆	3L4' T8EE/ELEE HBF	111
1F59SSE	1L8' T8/ELIG	60	3F32SSE	3L4' T8/ELIG	88
1F80SSE	1L8'T8 HO/ELIG	85	3F32SSL	3L4 T8/ELIG LBF	76
2F17SSE	2L2' T8/ELIG	37	3F32SSH	3L4 T8/ELIG HBF	112
2F25SSE	2L3' T8/ELIG	47	3F40BXE	3L2' F40BX/ELIG	102
2F25EEE	2L4'T8EE/ELEE	43	3F40TSE	3L5'T8/ELIG	106
2F25EEL	2L4'T8EE/ELEE LBF	38	4F17SSE ★	4L2' T8/ELIG	62
2F25EEH	2L4'T8EE/ELEE HBF	59	4F25SSE ★	4L3' T8/ELIG	88
2F28EEE	2L4'T8EE/ELEE	49	4F25EEE ★	4L4'T8EE/ELEE	86
2F28EEL	2L4'T8EE/ELEE LBF	42	4F25EEL ★	4L4'T8EE/ELEE LBF	75
2F28EEH	2L4'T8EE/ELEE HBF	65	4F25EEH ★	4L4'T8EE/ELEE HBF	112
2F30EEE ◆	2L4'T8EE/ELEE	53	4F28EEE ★	4L4'T8EE/ELEE	94
2F30EEL ◆	2L4'T8EE/ELEE LBF	46	4F28EEL ★	4L4'T8EE/ELEE LBF	83
2F30EEH ◆	2L4'T8EE/ELEE HBF	72	4F28EEH ★	4L4'T8EE/ELEE HBF	126
2F32EEE ◆	2L4' T8EE/ELEE	55	4F30EEE◆★	4L4'T8EE/ELEE	104
2F32EEL ◆	2L4' T8EE/ELEE LBF	48	4F30EEL◆★	4L4'T8EE/ELEE LBF	92
2F32EEH ◆	2L4' T8EE/ELEE HBF	74	4F30EEH◆★	4L4'T8EE/ELEE HBF	145
2F32SSE	2L4' T8/ELIG	60	4F32EEE◆★	4L4' T8EE/ELEE	108
2F32SSL	2L4 T8/ELIG LBF	52	4F32EEL◆★	4L4' T8EE/ELEE LBF	96
2F32SSH	2L4 T8/ELIG HBF	78	4F32EEH◆★	4L4' T8EE/ELEE HBF	148
2F40BXE	2L2' F40BX/ELIG	72	4F32SSE ★	4L4' T8/ELIG	112
2F40TSE	2L5'T8/ELIG	68	4F32SSL ★	4L4' T8/ELIG LBF	98
2F50BXE	2L2' F50BX/ELIG	108	4F32SSH ★	4L4 T8/ELIG HBF	156
2F54HSE	2L4' T5 HO/ELIG	117	4F40BXE	4L2' F40BX/ELIG	144
2F55BXE	2L2'55BXE/ELIG	112			

## 2009 Lighting Rebate

**Table E: New Fixture Codes** (continued)

**Measure Code 30 – High Efficiency Fluorescent Fixtures** - Note: ♦ Codes to be used for 30 & 32 watt “HP T8’s”

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1F30EEE ♦	1L4'T8EE/ELEE	27	2F50BXE	2L2' F50BX/ELIG	108
1F30EEL ♦	1L4'T8EE/ELEE LBF	24	2F59SSE	2L8' T8/ELIG	109
1F30EEH ♦	1L4'T8EE/ELEE HBF	37	2F59SSL	2L8' T8/ELIG LBF	100
1F32EEE ♦	1L4' T8EE/ELEE	28	2W32SSE	2L4' TW T8/ELIG	30
1F32EEL ♦	1L4' T8EE/ELEE LBF	25	2W32SSH	2L4' TW T8/HI-LUM	39
1F32EEH ♦	1L4' T8EE/ELEE HBF	38	3F28EEE	3L4'T8EE/ELEE	72
1F32SSE	1L4' T8/ELIG	30	3F28EEL	3L4'T8EE/ELEE LBF	62
1F32SSL	1L4 T8/ELIG LBF	26	3F28EEH	3L4'T8EE/ELEE HBF	96
2F17SSE	2L2' T8/ELIG	37	3F30EEE ♦	3L4'T8EE/ELEE	81
2F28EEE	2L4' T8EE/ELEE	49	3F30EEL ♦	3L4'T8EE/ELEE LBF	69
2F28EEL	2L4' T8EE/ELEE LBF	42	3F30EEH ♦	3L4'T8EE/ELEE HBF	106
2F28EEH	2L4'T8EE/ELEE HBF	65	3F32EEE ♦	3L4' T8EE/ELEE	82
2F30EEE ♦	2L4'T8EE/ELEE	53	3F32EEL ♦	3L4' T8EE/ELEE LBF	72
2F30EEL ♦	2L4'T8EE/ELEE LBF	46	3F32EEH♦	3L4' T8EE/ELEE HBF	111
2F30EEH ♦	2L4'T8EE/ELEE HBF	72	3F32SSE	3L4' T8/ELIG	88
2F32EEE ♦	2L4' T8EE/ELEE	55	3F32SSL	3L4 T8/ELIG LBF	76
2F32EEL ♦	2L4' T8EE/ELEE LBF	48	3F32SSH	3L4' T8/ELIG HBF	112
2F32EEH ♦	2L4' T8EE/ELEE HBF	74			
2F32SSE	2L4' T8/ELIG	60			
2F32SSL	2L4 T8/ELIG LBF	52			
2F32SSH	2L4' T8/ELIG HBF	78			

## 2009 Lighting Rebate

Table E: New Fixture Codes (continued)

Measure Code 32 – High Efficiency Fluorescent Fixtures - Note: ♦ Codes to be used for 30 & 32 watt “HP T8’s”

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1F28SSE	1L4' T5/ELIG	32	2F32SSE	2L4' T8/ELIG	60
1F30EEE ♦	1L4'T8EE/ELEE	27	2F32SSL	2L4 T8/ELIG LBF	52
1F30EEL ♦	1L4'T8EE/ELEE LBF	24	2F32SSH	2L4' T8/ELIG HBF	78
1F30EEH ♦	1L4'T8EE/ELEE HBF	37	2F40BXE	2L2' F40BX/ELIG	72
1F32EEE ♦	1L4' T8EE/ELEE	28	2F59SSL	2L8' T8/ELIG LBF	100
1F32EEL ♦	1L4' T8EE/ELEE LBF	25	2W32SSE	2L4' TW T8/ELIG	30
1F32EEH ♦	1L4' T8EE/ELEE HBF	38	2W32SSH	2L4' TW T8/HBF	39
1F32SSE	1L4' T8/ELIG	30	3F17SSE	3L2' T8/ELIG	53
1F32SSL	1L4 T8/ELIG LBF	26	3F28EEE	3L4'T8EE/ELEE	72
2F14SSE	2L2' T5/ELIG	32	3F28EEL	3L4'T8EE/ELEE LBF	62
2F24SSE	2L2' T5HO/ELIG	53	3F28EEH	3L4'T8EE/ELEE HBF	96
2F28SSE	2L4' T5/ELIG	63	3F30EEE ♦	3L4'T8EE/ELEE	81
2F28SSL	2L4' T5/ELIG LBF	60	3F30EEL ♦	3L4'T8EE/ELEE LBF	69
2F28SSH	2L4' T5/ELIG HBF	73	3F30EEH ♦	3L4'T8EE/ELEE HBF	106
2F28EEE	2L4' T8EE/ELEE	48	3F32EEE ♦	3L4' T8EE/ELEE	82
2F28EEL	2L4' T8EE/ELEE LBF	42	3F32EEL ♦	3L4' T8EE/ELEE LBF	72
2F28EEH	2L4'T8EE/ELEE HBF	65	3F32EEH♦	3L4' T8EE/ELEE HBF	111
2F30EEE ♦	2L4'T8EE/ELEE	53	3F32SSE	3L4' T8/ELIG	88
2F30EEL ♦	2L4'T8EE/ELEE LBF	46	3F32SSL	3L4 T8/ELIG LBF	76
2F30EEH ♦	2L4'T8EE/ELEE HBF	72	3F32SSH	3L4' T8/ELIG HBF	112
2F32EEE ♦	2L4' T8EE/ELEE	55			
2F32EEL ♦	2L4' T8EE/ELEE LBF	48			
2F32EEH ♦	2L4' T8EE/ELEE HBF	74			

## 2009 Lighting Rebate

**Table E: New Fixture Codes** (continued)

**Measure Code 41 – Fluorescent Fixtures with Reflectors** - Note: ♦ Codes to be used for 30 & 32 watt “HP T8’s”

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1F30EEE ♦	1L4'T8EE/ELEE	27	3F28EEE	3L4'T8EE/ELEE	72
1F30EEL ♦	1L4'T8EE/ELEE LBF	24	3F28EEL	3L4'T8EE/ELEE LBF	62
1F30EEH ♦	1L4'T8EE/ELEE HBF	37	3F28EEH	3L4'T8EE/ELEE HBF	96
1F32EEE ♦	1L4' T8EE/ELEE	28	3F30EEE ♦	3L4'T8EE/ELEE	81
1F32EEL ♦	1L4' T8EE/ELEE LBF	25	3F30EEL ♦	3L4'T8EE/ELEE LBF	69
1F32EEH ♦	1L4' T8EE/ELEE HBF	38	3F30EEH ♦	3L4'T8EE/ELEE HBF	106
1F32SSE	1L4' T8/ELIG	30	3F32EEE ♦	3L4' T8EE/ELEE	82
1F32SSL	1L4 T8/ELIG LBF	26	3F32EEL ♦	3L4' T8EE/ELEE LBF	72
2F17SSE	2L2' T8/ELIG	37	3F32EEH♦	3L4' T8EE/ELEE HBF	111
2F28EEE	2L4' T8EE/ELEE	48	3F32SSE	3L4' T8/ELIG	88
2F28EEL	2L4' T8EE/ELEE LBF	42	3F32SSL	3L4 T8/ELIG LBF	76
2F30EEE ♦	2L4'T8EE/ELEE	53	3F32SSH	3L4' T8/ELIG HBF	112
2F30EEL ♦	2L4'T8EE/ELEE LBF	46	4F17SSE	4L2' T8/ELIG	62
2F30EEH ♦	2L4'T8EE/ELEE HBF	72	4F28EEE	4L4'T8EE/ELEE	94
2F32EEE ♦	2L4' T8EE/ELEE	55	4F28EEL	4L4'T8EE/ELEE LBF	83
2F32EEL ♦	2L4' T8EE/ELEE LBF	48	4F28EEH	4L4'T8EE/ELEE HBF	126
2F32EEH ♦	2L4' T8EE/ELEE HBF	74	4F30EEE♦	4L4'T8EE/ELEE	104
2F32SSE	2L4' T8/ELIG	60	4F30EEL♦	4L4'T8EE/ELEE LBF	92
2F32SSL	2L4 T8/ELIG LBF	52	4F30EEH♦	4L4'T8EE/ELEE HBF	145
2F32SSH	2L4' T8/ELIG HBF	78	4F32EEE♦	4L4' T8EE/ELEE	108
2F40BXE	2L2' F40BX/ELIG	72	4F32EEL♦	4L4' T8EE/ELEE LBF	96
2F50BXE	2L2' F50BX/ELIG	108	4F32EEH♦	4L4' T8EE/ELEE HBF	148
2F59SSL	2L8' T8/ELIG LBF	100	4F32SSE	4L4' T8/ELIG	112
			4F32SSL	4L4' T8/ELIG LBF	98
			4F32SSH	4L4 T8/ELIG HBF	156
			4F40BXE	4L2' F40BX/ELIG	144

## 2009 Lighting Rebate

**Table E: New Fixture Codes** (continued)

**Measure Code 42 – Fluorescent Fixtures with Reflectors** - Note: ♦ Codes to be used for 30 & 32 watt “HP T8’s”

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1F30EEE ♦	1L4'T8EE/ELEE	27	3F28EEE	3L4'T8EE/ELEE	72
1F30EEL ♦	1L4'T8EE/ELEE LBF	24	3F28EEL	3L4'T8EE/ELEE LBF	62
1F30EEH ♦	1L4'T8EE/ELEE HBF	37	3F28EEH	3L4'T8EE/ELEE HBF	96
1F32EEE ♦	1L4' T8EE/ELEE	28	3F30EEE ♦	3L4'T8EE/ELEE	81
1F32EEL ♦	1L4' T8EE/ELEE LBF	25	3F30EEL ♦	3L4'T8EE/ELEE LBF	69
1F32EEH ♦	1L4' T8EE/ELEE HBF	38	3F30EEH ♦	3L4'T8EE/ELEE HBF	106
1F32SSE	1L4' T8/ELIG	30	3F32EEE ♦	3L4' T8EE/ELEE	82
1F32SSL	1L4 T8/ELIG LBF	26	3F32EEL ♦	3L4' T8EE/ELEE LBF	72
1F59SSE	1L8' T8/ELIG	60	3F32EEH♦	3L4' T8EE/ELEE HBF	111
1F80SSE	1L8'T8 HO/ELIG	85	3F32SSE	3L4' T8/ELIG	88
2F28EEE	2L4' T8EE/ELEE	48	3F32SSL	3L4 T8/ELIG LBF	76
2F28EEL	2L4' T8EE/ELEE LBF	42	4F17SSE	4L2' T8/ELIG	62
2F30EEE ♦	2L4'T8EE/ELEE	53	4F28EEE	4L4'T8EE/ELEE	94
2F30EEL ♦	2L4'T8EE/ELEE LBF	46	4F28EEL	4L4'T8EE/ELEE LBF	83
2F30EEH ♦	2L4'T8EE/ELEE HBF	72	4F28EEH	4L4'T8EE/ELEE HBF	126
2F32EEE ♦	2L4' T8EE/ELEE	55	4F30EEE♦	4L4'T8EE/ELEE	104
2F32EEL ♦	2L4' T8EE/ELEE LBF	48	4F30EEL♦	4L4'T8EE/ELEE LBF	92
2F32EEH ♦	2L4' T8EE/ELEE HBF	74	4F30EEH♦	4L4'T8EE/ELEE HBF	145
2F32SSE	2L4' T8/ELIG	60	4F32EEE♦	4L4' T8EE/ELEE	108
2F32SSL	2L4 T8/ELIG LBF	52	4F32EEL♦	4L4' T8EE/ELEE LBF	96
2F32SSH	2L4' T8/ELIG HBF	78	4F32EEH♦	4L4' T8EE/ELEE HBF	148
2F59SSE	2L8' T8/ELIG	109	4F32SSE	4L4' T8/ELIG	112
2F59SSL	2L8' T8/ELIG LBF	100	4F32SSL	4L4' T8/ELIG LBF	98
2F80SSE	2L8'T8 HO/ELIG	160	4F32SSH	4L4 T8/ELIG HBF	156
			4D32SSL	4L4 DTWT8/ELIG LBF	49
			4F40BXE	4L2' F40BX/ELIG	144

## 2009 Lighting Rebate

**Table E: New Fixture Codes** (continued)

**Measure Code 21 – Single Lamp Compact Fluorescent Fixtures**

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1C0005S	5W COMPACT HW	7	1C0028S	28W COMPACT HW	30
1C0007S	7W COMPACT HW	9	1C0032S	32W CIRCLINE HW	34
1C0009S	9W COMPACT HW	11	1C0042E	1/42W COMPACT HW ELIG	48
1C0011S	11W COMPACT HW	13	1C0044S	44W CIRCLINE HW	46
1C0013S	13W COMPACT HW	15	1C2D10E	10W 2D COMPACT HW ELIG	12
1C0018E	18W COMPACT HW ELIG	20	1C2D16E	16W 2D COMPACT HW ELIG	18
1C0018S	18W COMPACT HW	20	1C2D21E	21W 2D COMPACT HW ELIG	22
1C0022S	22W COMPACT HW	24	1C2D28E	28W 2D COMPACT HW ELIG	28
1C0026E	26W COMPACT HW ELIG	28	1C2D38E	38W 2D COMP.HW ELIG	36
1C0026S	26W COMPACT HW	28			

**Measure Code 21 – Double Lamp Compact Fluorescent Fixtures**

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1C2232S	22/32W CIRCLINE HW	58	2C0018E	2/18W COMP. HW ELIG	40
1C3240S	32/40W CIRCLINE HW	80	2C0026E	2/26W COMP. HW ELIG	54
2C0005S	2/5W COMPACT HW	14	2C0032E	2/32W COMPACT HW ELIG	68
2C0007S	2/7W COMPACT HW	18	2C0042E	2/42W COMPACT HW ELIG	100
2C0009S	2/9W COMPACT HW	22	3C0009S	3/9W COMPACT HW	33
2C0011S	2/11W COMPACT HW	26	3C0013S	3/13W COMPACT HW	45
2C0013E	2/13W COMPACT HW ELIG	28	3C0018E	3/18W COMPACT HW ELIG	60
2C0013S	2/13W COMPACT HW	30			

**Measure Code 23 – Dimmable Compact Fluorescent Fixtures**

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1C0018E	18W COMPACT HW ELIG	20	1C0026E	26W COMPACT HW ELIG	28
1C0023E	1/23W COMPACT HW ELIG	25	2C0018E	2/18W COMP. HW ELIG	40

**Measure Code 24/25 – LED or LEC Exit Sign Fixtures**

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1E0015	1.5 WATT LED	1.5	1E0008	8.0 WATT LED	8
1E0002	2.0 WATT LED	2	1E0105	10.5 WATT LED	10.5
1E0003	3.0 WATT LED	3	1E0005C	0.5 WATT LEC	0.5
1E0005	5.0 WATT LED	5			

## 2009 Lighting Rebate

**Table E: New Fixture Codes** (continued)

**Measure Code 51 – HID Fixtures (Metal Halide Pulse Start)**

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

**Measure Code 52 – HID Fixtures - (Metal Halide Pulse Start)**

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

\* Note: these fixtures are not eligible for prescriptive rebate, but may be eligible using the custom approach.

**Measure Code 55 – HID Fixtures – (High Pressure Sodium)**

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

## 2009 Lighting Rebate

**Table E: New Fixture Codes** (continued)

**Measure Code 56 – High Intensity Fluorescent Fixtures (HIF) (125 watts to 219 watts)**

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
3C0042E	3/42W COMPACT HW ELIG	141	4F36BXE	4L2' F36BX/ELIG	148
3F50BXE	3L2' F50BX/ELIG	162	4F40BXE	4L2' F40BX/ELIG	144
3F54HSE	3L4' T5 HO/ELIG	177	4F40BXH	4L 40WT5 (Std.) Bal	170
3F55BXE	3L2' F55BX/ELIG	168	4F50BXE	4L2' F50BX/ELIG	216
4C0032E	4/32W COMPACT HW ELIG	152	5F40BXE	5L2' F40BX/ELIG	190
4C0042E	4/42W COMPACT HW ELIG	188	6C0026E	6/26W COMPACT HW ELIG	162
4F32EEH◆	4L4' T8EE/ELEE HBF	148	6F36BXE	6L2' F36BX/ELIG	212
4F32SSH	4L4' T8/ELIG HBF	156	6F40BXE	6L2' F40BX/ELIG	204
5F32SSH	5L4' T8/ELIG HBF	190	8C0026E	8/26W COMPACT HW ELIG	216

**Measure Code 57 – High Intensity Fluorescent Fixtures (HIF) (> 219 watts)**

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
4F54HSE	4L 54W T5 HO	234	8C0032E	8/32W COMPACT HW ELIG	304
4F55BXE	4L2' F55BX/ELIG	224	8C0042E	8/42W COMPACT HW ELIG	376
5F50BXE	5L2' F50BX/ELIG	270	8F36BXE	8L2' F36BX/ELIG	296
5F54HSE	5L 54W T5 HO	294	8F40BXE	8L2' F40BX/ELIG	288
5F55BXE	5L2' F55BX/ELIG	280	8F50BXE	8L2' F50BX/ELIG	432
6C0032E	6/32W COMPACT HW ELIG	228	8F55BXE	8L2' F55BX/ELIG	448
6C0042E	6/42W COMPACT HW ELIG	282	9F36BXE	9L2' F36BX/ELIG	318
6F32EEH◆	6L4' T8EE/ELEE HBF	222	9F40BXE	9L2' F40BX/ELIG	288
6F32SSH	6L4' T8/ELIG HBF	234	9F50BXE	9L2' F50BX/ELIG	486
6F54HSE	6L 54W T5 HO	351	9F55BXE	9L2' F55BX/ELIG	504
6F50BXE	6L2' F50BX/ELIG	324	12F40BE	12L2' F40BX/ELIG	408
6F55BXE	6L2' F55BX/ELIG	336	12F50BE	12L2' F50BX/ELIG	648
			12F55BE	12L2' F55BX/ELIG	672

**Measure Code 70 – Specialty Metal Halide Fixtures**

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1M0035E	35 or 39 WATT MH/ELEC	44	1M0070E	70 WATT MH/ELEC	80
1M0050E	50 WATT MH/ELEC	58	1M0100E	100 WATT MH/ELEC	112

**Measure Code 26, 28, 29 – LED Traffic Signals**

<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>	<u>Fixture Code</u>	<u>Fixture Description</u>	<u>Watts</u>
1E0006	6 WATT LED PED	6	1E0017	17 WATT LED	17
1E0009	9 WATT LED PED	9	1E0020	20 WATT LED	20
1E0010	10 WATT LED	10	1E0024	24 WATT LED	24
1E0014	14 WATT LED	14			

## 2009 Lighting Rebate

### Lighting Instruction Legend for Fixture Code and Description Tables

W	=	Watt
INC	=	Incandescent
HPS	=	High Pressure Sodium
MH	=	Metal Halide
Mercury	=	Mercury Vapor
MV	=	Mercury Vapor
HID	=	High Intensity Discharge Lamp and Ballast System (MH, HPS, MV)
HIF	=	High Intensity Discharge Lamp and Ballast System
BX	=	BIAX Lamp (long twin tube lamp)
STD	=	Standard Efficient Lamp or Ballast
EE	=	Energy Efficient Lamp
T8EE	=	Energy Efficient T8 lamp
LV	=	Low Voltage
HO	=	High Output Lamp
VHO	=	Very High Output Lamp
F20, F32, F48, etc.	=	Lamp Size, Type or Wattage indicator
EEMAG	=	Energy Efficient Magnetic Ballast
ELEE	=	Energy Efficient Electronic Ballast (ie T8's & High Performance T8's)
ELIG	=	Normal Ballast Factor (BF = .87, .88) Electronic Ballast
LBF	=	Low Ballast Factor (BF <.80) Electronic Ballast
HBF	=	High Ballast Factor (BF > 1.0) Electronic Ballast
HW	=	Hard Wired
COMPACT	=	Compact Fluorescent Lamp (CFL) and Ballast
CWA	=	Constant Wattage Autotransformer (HID)
LINEAR	=	Linear Control Electronic Ballast (HID)
PF	=	Power Factor
LED	=	Light Emitting Diode
LEC	=	Electroluminescent