


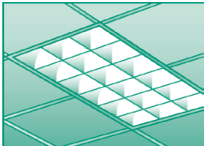



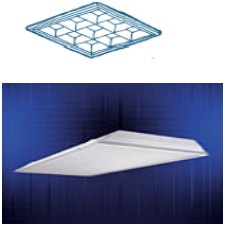
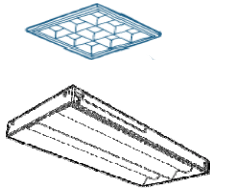
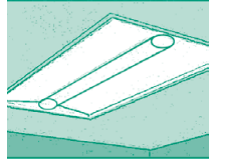
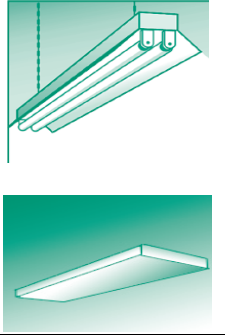
# 2013-2014 Lighting

Note: All fluorescent fixtures must have High Performance or Reduced Wattage (HP/RW) lamps & ballast systems or T5 lamp and ballast systems to be eligible for fluorescent incentives. Facility lighting must average 2,000 hours per year. For detailed eligibility requirements & a list of qualifying HPT8 lamps and ballasts, log onto CEE's web site at [www.cee1.org](http://www.cee1.org) or the utility website



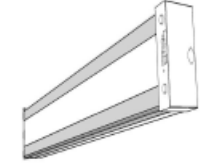


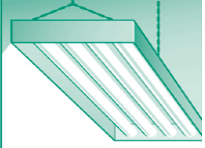
**Table A: Lighting Systems Incentives**

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	
10 *	<b>Re-lamp/re-ballast</b> existing fixtures with new High Performance /Reduced Wattage (HP/RW) T-8 or T-5 lamps and HP/RW T-8 Electronic Ballasts	\$10	Re-lamp/re-ballast of existing fixtures with T-8 or T-5 lamps, each fixture is composed of a ballast and 1, 2, 3 or 4 lamps. Only one incentive may be counted per fixture. Multiple fixtures served by a single ballast are only eligible for one incentive. Consider using reduced wattage 25 & 28 watt T8 <b>CEE qualified lamps/ballasts.</b>	11	
12 *	<b>Re-lamp/re-ballast</b> of existing fixtures with new High Performance /Reduced Wattage (HP/RW) T-8 or T-5 lamps and HP/RW T-8 Electronic Ballasts . (i.e T12 fixtures)	\$20	Re-lamp/re-ballast of existing fixtures ( <b>with opportunity for increased savings with increased watts saved of more than 23 watts</b> ). Consider using reduced wattage 25 & 28 watt T8 CEE qualified lamps/ballasts.	23	
30A *	<b>High Efficiency 2 lamp Prismatic Lensed Fluorescent Fixtures</b> - 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 (reduced wattage biax lamps are eligible- typically 28 watts or less).	27	
30B *	<b>High Efficiency 2 lamp Parabolic Fluorescent Fixtures</b> - 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; - 80% for 2x2 fixture with parabolic louver (2" to 3" deep cells) with two T-8 or T5 lamps (reduced wattage biax lamps are eligible-typically 28 watts or less)	27	
30C *	<b>High Efficiency up to 2 lamp Recessed Indirect/Direct Fluorescent Fixtures</b> - 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; - 70% for 2x2 recessed indirect/direct fixture with two T-8, T-5, or T5HO (only reduced wattage biax lamps are eligible- typically 28 watts or less)	27	

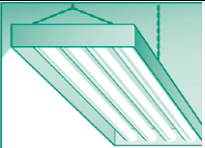
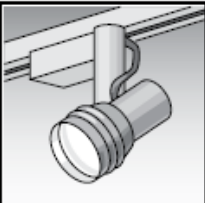




**2013-2014 Lighting**

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	
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; <b>Eligible fixtures are limited to 3 lamps with a low power ballast factor &lt; 0.80.</b>	31	
32 *	High Efficiency Recessed Fluorescent 2 lamp Retrofit Kits - 2x2 and 2x4	\$40	Overall fixture efficiency must be $\geq$ : - 80% for 2x4 parabolic retrofit kit and advanced glare reducing diffuser retrofit kit with two T-8 or T-5 lamps; - 80% for 1x4 parabolic retrofit kit and advanced glare reducing diffuser retrofit kit with one or two T-8 or T-5 lamps - 75% for 2x2 parabolic retrofit kit and advanced glare reducing diffuser retrofit kit with two T-8, T-5, or T-5HO (reduced wattage biax lamps are eligible- 28 watts or less)	27	
34 *	Advanced Recessed Fluorescent Fixtures 1x4, 2x2, or 2x4	\$45	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; - 80% for 1x4 advanced glare reducing diffuser fixture with one or two T-8 or T-5 lamps, or one T-5HO lamp. - 80% for 2x2 advanced glare reducing diffuser fixture with one or two T-8, T-5, T-5HO lamps (reduced wattage biax lamps are eligible - typically 28 watts or less)	33	
41 *	Industrial/Commercial Fluorescent Fixtures – 4 ft. and 8ft. 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- 4 ft. 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	
45 *	Stairwell Fluorescent Fixture – with integral occupancy sensor controls	\$75	Overall fixture efficiency must be $\geq$ : -75% for Stairwell fluorescent fixture with up to three T-8 or T-5 lamps. To be eligible for incentives, fixtures must be installed in a <b>8,760 hour</b> stairwell application with integral occupancy sensor control, setting lights to 50% output in control mode (not occupied.) (not eligible for an additional control incentive)	23	
21	Compact Fluorescent Fixture and Dimmable Compact Fluorescent Fixture	\$15	To be eligible for incentives, all fixtures must be hard-wired and have electronic ballasts with <33% THD. (Retrofit kits and screw-in adapters not eligible)	35	
25	LED or LEC (Electroluminescence) Exit Fixtures	\$10	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	
56 *	High Intensity Fluorescent Fixtures (HIF) for High and Low Bay Applications ( $\leq$ 195w)	\$60	Minimum wattage is 96 watts and maximum wattage is 195 watts. Minimum fixture efficiency must exceed 87%. 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. <b>T8 fixtures must have high power ballast.</b>	70	








# 2013-2014 Lighting

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	
57 *	<b>High Intensity Fluorescent Fixtures (HIF)</b> for High and Low Bay Applications (> 195w)	<b>\$90</b>	Minimum wattage is greater than <b>195</b> watts. Minimum fixture efficiency must exceed 87%. 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. <b>T8 fixtures must have high power ballast</b>	<b>95</b>	
70	<b>Metal Halide Specialty Lighting</b> Hard Wired Fixtures with Electronic Ballast	<b>\$25</b>	Metal Halide Specialty Fixtures maybe track, recessed or surface mounted and used for high quality display type lighting. Must be approved by UL or similar agency.	<b>55</b>	
80A	<b>LED Down Light Fixtures-</b> Hard Wired or GU-24 base less than 25 watts & screw base LED down light retrofit kits.	<b>\$25</b>	Eligible LED Down Lights are required to be hardwired or GU-24 base fixtures less than 25 Watts and listed as a Commercial LED product by Energy Star. <b>Also Eligible ALL Screw Base LED Down Light Retrofit Kits.</b> (for more information see <a href="http://www.energystar.gov">www.energystar.gov</a> )	<b>14</b>	
80B	<b>LED Down Light Fixtures-</b> Hard Wired or GU-24 base greater than or equal to 25 watts.	<b>\$50</b>	Eligible LED Down Lights are required to be hardwired or GU-24 base fixtures greater than or equal to 25 Watts and listed as a Commercial LED product by Energy Star. (for more information see <a href="http://www.energystar.gov">www.energystar.gov</a> )	<b>29</b>	
81A	<b>Integral LED Directional Replacement Lamps</b> (A19, MR16, PAR16 & PAR20)	<b>\$5</b>	Eligible LED Integral replacement lamps are for these reflector styles: A19, MR16, PAR16 and PAR20. Lamps must operate a <b>minimum of 2,000 hours annually.</b>  Eligible lamps are required to be listed by Energy Star Pre-Qualified list For more information see <a href="http://www.energystar.gov">www.energystar.gov</a>	<b>12</b>	
81B	<b>Integral LED Directional Replacement Lamps</b> (BR and PAR30, BR and PAR38 and Screw Base LED Downlight Retrofit Kits)	<b>\$10</b>	Eligible LED Integral replacement lamps are for these reflector styles: PAR30S, PAR30L and PAR38. <b>Also Eligible are Screw Base LED Downlight Retrofit Kits.</b> Lamps must operate a <b>minimum of 2,000 hours annually.</b>  Eligible lamps are required to be listed by Energy Star Pre-Qualified list For more information see <a href="http://www.energystar.gov">www.energystar.gov</a>	<b>25</b>	

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Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	
82A	<b>LED Cooler , Freezer Case, or Refrigerated Shelving Fixtures</b> 3' & 4' Fixture	<b>\$40</b>	Eligible LED Cooler and Freezer Case fixtures are required to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )  <b>Please specify quantity of end and/or center mount fixtures.</b>	14	
82B	<b>LED Cooler , Freezer Case, or Refrigerated Shelving Fixtures</b> 5' & 6' Fixture	<b>\$55</b>	Eligible LED Cooler and Freezer Case fixtures are required to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )  <b>Please specify quantity of end and/or center mount fixtures.</b>	23	
83A	<b>LED Low Bay Fixtures Garage &amp; Canopy</b> fixtures to be installed in $\geq 4,345$ hour applications	<b>\$100</b>	Eligible LED Low Bay fixtures are required to be installed in <b>minimum of 4,345 hour</b> applications (dusk to dawn) and be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )  Retrofit Kits not Eligible.	60	
83B	<b>LED Low Bay Fixtures Retrofit Kits Garage &amp; Canopy</b> kits to be installed in fixture applications with $\geq 4,345$ hours	<b>\$50</b>	Eligible LED Low Bay fixtures and Retrofit Kits are required to be installed in <b>minimum of 4,345 hour</b> applications (dusk to dawn) and be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )  Fixtures and Retrofit Kits need to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )	60	
84	<b>LED Track Heads- Hardwired</b> less than or equal to 25 watts	<b>\$25</b>	LED track heads fixtures hardwired installations only, replacement lamps not eligible. Eligible fixtures are required to be less than or equal to 25 watts and listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )	30	

## 2013-2014 Lighting

Product Code	Measure Description	Per Fixture Incentive	Eligibility Criteria	Min Watts Saved	
85	<b>LED Exterior Wall Mount Fixtures</b> to be fixtures to be installed in <b>≥ 4,345 hour</b> applications	<b>\$75</b>	Eligible LED Exterior Wall Mount fixtures are required to be installed in <b>minimum of 4,345 hour</b> applications (dusk to dawn) and be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )	<b>100</b>	
86A	<b>LED Interior High Bay/Low Bay Fixtures</b>	<b>\$150</b>	Eligible LED Interior High Bay/Low Bay fixtures recommended mounting height > 16 feet above the floor with <b>minimum of 4,356 hour</b> applications and are required to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )	<b>95</b>	
86B	<b>LED Interior High Bay/Low Bay Retrofit Kits</b>	<b>\$75</b>	Eligible fixtures and Retrofit Kits for LED Interior High Bay/Low Bay applications with mounting height > 16 feet above the floor are required to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )	<b>95</b>	
87	<b>LED Pole Mounted Parking, Roadway, or Decorative Fixtures</b>	<b>\$175</b>	Eligible LED Pole Mounted Parking, Roadway, or Decorative fixtures are required to be installed in <b>minimum of 4,345 hour</b> applications (dusk to dawn) and be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )	<b>100</b>	
87A	<b>LED Pole Mounted Parking, Roadway, or Decorative Fixtures Kits</b>	<b>\$100</b>	Eligible LED Pole Mounted Parking, Roadway, or Decorative fixture kits are required to be installed in <b>minimum of 4,345 hour</b> applications (dusk to dawn) and be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )	<b>100</b>	
88A	<b>LED Interior 1x4, 2x2 and 2x4 Recessed Fixtures</b>	<b>\$60</b>	Eligible LED Interior fixtures are required to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )	<b>38</b>	
88B	<b>LED Interior 2x2 and 2x4 Panel Fixtures Retrofit Kits</b>	<b>\$40</b>	Eligible LED Interior Retrofit Kits 2x2, 1x4 and 2x4 panel fixtures are required to be listed by Design Lights Consortium (for more information see <a href="http://www.designlights.org">www.designlights.org</a> )	<b>38</b>	


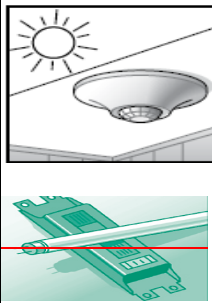


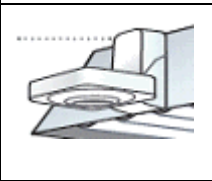
**2013-2014 Lighting**

*			<p><b>Note:</b> 4ft straight and U-bend 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 <a href="http://www.cee1.org">www.cee1.org</a>.</p> <ul style="list-style-type: none"> <li>• 2,,3 and 4 ft linear T8 lamps including U bents when used in combination with CEE's High Performance/Reduced Wattage (HP/RW) T8 Ballast Specifications are considered HP/RW systems.</li> <li>• 2ft and 3ft, <u>T8 and T5</u> lamps must have a minimum efficacy of 75 mean lumens per Watt, a CRI greater than 80 and an average rated life of 24,000 hours at 3 hours per start.</li> <li>• 2ft – reduced wattage biax lamps must have a minimum efficacy of 94 mean lumens per watt, a CRI greater than 80 and an average rated life of 20,000 hours at 3 hours per start. Ballasts must meet the CEE's High Performance T8 Ballast Specifications.</li> </ul>		
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## 2013-2014 Lighting

Please note that only one incentive control strategy will be approved per fixture/area. Also consider using program start CEE qualified, parallel wired ballasts for all appropriate control measure codes on T8 lighting to ensure longer lamp life over instant start ballasts.

**Table A-1: Lighting Control Incentives**

Measure Code	Measure Description	Per Control Incentive	Eligibility Criteria	Min Controlled Wattage	
61	Remote Mounted Occupancy Sensor	\$50	Comply with manufacturer's coverage recommendations. Ceiling mounted control. No manual "ON" overrides.	110	
62	Daylight Dimming System (DDS-FL) and/or Occupancy Controlled Step-Dimming System	\$25 (per fixture)	Daylight: Must have continuous dimming or adjust to a minimum of 4 levels. Typical lamping is either a 28 watt or 32 watt T8 lamps.  Step-Dimming: Ballast must be automatically controlled based on occupancy.  Power consumption in low mode must not exceed 60%.	48 (per fixture)	
64	Wall mounted Occupancy Sensors	\$25	Occupancy Sensors must operate as Automatic On, and Automatic Off or Manual 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	
65	Photocell Sensors or Hard-Wired Astronomical Timer Controlled Lighting (for continuously operating lighting systems on 24/7)	\$45	Photocell sensor or hard-wired astronomical timer controlled lighting systems, or lighting circuit, that operate on 24 operate on 24 hours a day, 7 days a week (8,760 hours annually)	70	
68	Integral High Bay Fixture Occupancy Control Systems	\$25 (per fixture)	Fluorescent Ballast or LED Drivers must be automatically controlled based on occupancy. Systems with manual "ON" or override switches are not eligible.  Occupancy sensors are integral (built into) or permanently attached to each fixture.	95 (per fixture)	



# 2013-2014 Lighting

**Table B: Lighting Systems Inventory**

This table or similar document must be completed by the Customer / Contractor / Vendor. Attach additional sheets if necessary. Each room or area in which lighting changes are proposed should be listed separately. When completed, submit this form or similar document to your Utility Representative. Also submit the manufacturer cut sheets that show photometric values of the fixtures.

Customer/Facility Name: \_\_\_\_\_ Project Description: \_\_\_\_\_ Date: \_\_\_\_\_

Existing Lighting System						Proposed Lighting System						
Room / Area	Qty	Description of Fixture	Fixture Code	Watts	Annual Hrs	Qty	Description of Fixture	Fixture Code	Measure Code	Watts	Annual Hrs	Watts Reduction
Classroom 103	12	3L4'STD/STD	3F40SSS	151	2,500	12	3L4'T8EE/EEE	3F32EEL	31	72	2,500	79