

# OUTDOOR LIGHTING INCENTIVES WORKSHEET

January 1, 2019 through December 31, 2019

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## General Specifications

1. **A pre-approval application is required; review instructions on the standard and custom incentives pre-approval and final application form. Wait for pre-approval before starting your project.**
2. All lighting projects are expected to comply with the Illuminating Engineering Society of North America (IESNA) recommended lighting levels or the local code.
3. A pending T12 baseline change may reduce future incentive levels on all T12 measures.
4. Refer to the Default Fixture Wattage Reference Table on pages 7 to 9 to determine baseline wattage.
5. Original manufacturer’s specifications sheets must be submitted with pre-approval and final applications to verify measure eligibility. Measure eligibility information can be found under individual specifications in this worksheet.
6. Lamp and ballast photographs must be submitted with the pre-approval application when replacing existing high output lamps.
7. Use baseline code IECC 2015 for new construction projects that involve a change in building and/or space type. These projects may be eligible for custom incentives. Use the All Other Lighting Worksheet available at [ComEd.com/Custom](http://ComEd.com/Custom).

## LED Fixtures and Retrofits (Please complete the watt reduction worksheet on the following page)

### Specifications and Eligible Equipment

1. Product must be listed on the DesignLights Consortium Qualified Products List available at <http://www.designlights.org>.
2. Linear TLEDs type A and B, and trim kits/downlights are not eligible for standard incentives but may be eligible for instant discounts when purchased from a participating distributor. Contact a distributor to check product eligibility; visit [ComEd.com/BizLights](http://ComEd.com/BizLights) for details.

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## LED Fixtures

### \$0.50 per watt reduced

Replacement of an existing exterior lighting system with a new or lighting system containing LED fixtures (project does not have to be a one-for-one replacement).

Note: This measure does not apply to LED channel signs.

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## LED Retrofits

### \$0.50 per watt reduced

Replacement of an existing exterior lighting system with a retrofit lighting system containing LEDs.

Note: This measure does not apply to channel signs, open signs, LED screw-based replacement for HID lamps or refrigerated display case lighting.

<b>Customer Name:</b>

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January 1, 2019 through December 31, 2019

## Watt Reduction Worksheet for LED Fixtures and Retrofits

Use this worksheet to calculate the incentives. (See example below).

TYPE OF EQUIPMENT TO BE REPLACED	QUANTITY OF EQUIPMENT TO BE REPLACED	WATTAGE OF EQUIPMENT TO BE REPLACED	TYPE OF NEW FIXTURE TO BE INSTALLED (MODEL NUMBER)	QUANTITY OF NEW EQUIPMENT	WATTAGE OF NEW EQUIPMENT	DIFFERENCE (OLD WATTAGE MINUS NEW)
example: 2-lamp 4-ft T12	100	72	example: LED ARV2- 12/480/8CPT4	120	44	1,920


<b>Total Wattage Reduction:</b>

<b>Incentive:</b>
\$0.50 per watt reduced

<b>Incentive Subtotal:</b>

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## LED Lighting

### Specifications and Eligible Equipment

Replacement signs cannot use more than 20 percent of the original sign's input power.

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#### LED "Open" Sign

**\$40 per sign**

Replacement of an existing neon "open" sign with an LED "open" sign.

Number of signs:

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#### LED Channel Sign < 2 feet Exterior

**\$12 per letter**

Replacement or retrofit of an incandescent, HID, argon-mercury or neon-lighted channel letter ≤ 2 feet high with an LED letter.

Number of letters:

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#### LED Channel Sign > 2 feet Exterior

**\$30 per letter**

Replacement or retrofit of an incandescent, HID, argon-mercury or neon-lighted channel letter > 2 feet high with an LED letter.

Number of letters:

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INCENTIVE SUBTOTAL:
\$

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January 1, 2019 through December 31, 2019

## LED Traffic Signals

Incentive applies to the retrofitting of traffic and pedestrian signals from incandescent lamps to LEDs. The maximum LED module wattage for each lamp is 25 watts. All lights must be hardwired. Single lamp replacements are not eligible, except pedestrian hand signals. Stock lamps are not eligible for an incentive. Eligible lamps must meet the ENERGY STAR® Traffic Signal Specification and the Institute for Transportation Engineers specification for traffic signals.

### Round Signals (Red, Yellow and Green)

#### 8" Lamp

\$40 per lamp

#### 12" Lamp

\$100 per lamp

### Flashing Signals (Red and Yellow)

#### 8" Lamp

\$40 per lamp

#### 12" Lamp

\$100 per lamp

### Round Turn Arrows (Yellow and Green)

#### 8" Lamp

\$40 per lamp

#### 12" Lamp

\$100 per lamp

### Pedestrian Sign Hand/Man

#### 12" Lamp

\$80 per lamp

## Incentive Calculator for LED Traffic Signals

EQUIPMENT TYPE	INCENTIVE PER UNIT	NUMBER OF UNITS	INCENTIVE
<b>INCENTIVE SUBTOTAL</b>			<b>\$</b>

To apply for incentives for lighting retrofits and replacements that are not listed above, please fill out the All Other Lighting Table located at [ComEd.com/BizIncentives](http://ComEd.com/BizIncentives).

# OUTDOOR LIGHTING INCENTIVES WORKSHEET

January 1, 2019 through December 31, 2019

## Lighting Control Products

Use the watts controlled worksheet below to calculate watts controlled for each applicable measure.

### Occupancy Sensors

**\$0.10 per watt controlled**

Installation of new occupancy sensors on a new or existing lighting system. Passive infrared, ultrasonic detectors and fixture-integrated sensors or sensors with a combination thereof are eligible.

<b>Watts controlled:</b>

#### Specifications:

1. Replacement of existing occupancy sensors is not eligible for this incentive.
2. An inventory of the controlled fixtures is required with the final application.

### Photocells

**\$0.08 per watt controlled**

Installation of photocells on exterior lighting.

<b>Watts controlled:</b>

#### Specifications:

1. Eligible controls are built-in or stand-alone photoelectric cells that switch outdoor lights on at dusk and off at dawn.

<b>INCENTIVE SUBTOTAL</b>
\$

## Watts Controlled Worksheet for Lighting Control Products

Use this worksheet to calculate watts controlled for each applicable measure.

TYPE OF SENSOR	TYPE OF FIXTURE	(A) NUMBER OF FIXTURES	(B) WATTS PER FIXTURE	(A x B) WATTS CONTROLLED
example: occupancy	6-lamp 4-ft T8	100	220	22,000

# OUTDOOR LIGHTING INCENTIVES WORKSHEET

January 1, 2019 through December 31, 2019

## Lighting Control Products (cont'd)

Use the watts controlled worksheet below to calculate watts controlled for each applicable measure.

### Time Clocks for Lighting

**\$0.03 per watt controlled**

Installation of time clocks on exterior lighting.

#### Specifications:

1. Clocks must control on/off schedule of lighting equipment and must have a three-hour back-up system to maintain the program schedule during power outages.
2. Astronomical time clocks (where on-off times are in accordance with sunrise and sunset) are required for outdoor lighting when photocells are not in use.

<b>Watts controlled:</b>

### Photocells Plus Time Clock

**\$0.09 per watt controlled**

Installation of both photocell and time clock to control the same lighting fixture.

#### Specifications:

1. Must meet all specifications for photocells and time clocks for lighting.
2. Time clock must turn off lighting equipment at least 3 hours per night each night.

<b>Watts controlled:</b>

<b>INCENTIVE SUBTOTAL</b>
\$

## Watts Controlled Worksheet for Lighting Control Products

Use this worksheet to calculate watts controlled for each applicable measure.

TYPE OF SENSOR	TYPE OF FIXTURE	(A) NUMBER OF FIXTURES	(B) WATTS PER FIXTURE	(A x B) WATTS CONTROLLED
example: occupancy	6-lamp 4-ft T8	100	220	22,000

<b>GRAND TOTAL INCENTIVE REQUESTED</b>
\$

Incentive cannot exceed 100 percent of the incremental measure cost and 75 percent of the total project cost and must meet all program terms and conditions.

# OUTDOOR LIGHTING INCENTIVES WORKSHEET

January 1, 2019 through December 31, 2019

## Default Fixture Wattage Reference Table

This table is to be used as a reference for determining the wattage of baseline (existing) fixtures. Wattages for all new (proposed) fixtures should be referenced from the new product specifications.

There are many factors that affect the input wattage of a fixture: ballast factor, lamp quality, system voltage, etc. The more information that is provided about your project, the more accurate the incentive and energy savings calculations can be. If there is any doubt as to which fixture type is correct, the conservative wattage will be used. To ensure that the wattages used in incentive calculations are as accurate as possible, **pictures are recommended for all of the fixture types listed below in red or with an asterisk(\*)**.

This table is made up of the most common fixtures but does not include all fixture types. T12 fixtures are listed with energy-saving (ES) magnetic ballasts and standard magnetic ballasts. If a fixture type is not listed on this table, it does not necessarily mean that the fixture is not eligible for an incentive. Please visit [ComEd.com/BizIncentives](http://ComEd.com/BizIncentives) or call us at 855-433-2700 if you have any questions.

### T12

NUMBER OF LAMPS PER FIXTURE	2-FT 20W LAMPS	3-FT 30W LAMPS	4-FT 34W U-LAMPS	4-FT 40W U-LAMP(S) WITH ES MAGNETIC BALLASTS (STANDARD MAGNETIC BALLASTS)	4-FT 34W LAMP(S) WITH ES MAGNETIC BALLAST	4-FT 34W LAMP(S) WITH STANDARD MAGNETIC BALLAST	4-FT 40W LAMP(S) WITH ES MAGNETIC BALLAST	4-FT 40W LAMP(S) WITH STANDARD MAGNETIC BALLAST
1	28	37	43		40	50*	48*	57*
2	56	74	72	85* (96)*	68	80*	82*	94*
3	62	111	115		110	130*	122*	147*
4	112	148			139	160*	164*	182*
6	146				216	236*	258*	282*
8					288			

### T12 8-FT

NUMBER OF LAMPS PER FIXTURE	60W LAMP(S) WITH ES MAGNETIC BALLAST	60W LAMP(S) WITH STANDARD MAGNETIC BALLAST	75W LAMP(S) WITH ES MAGNETIC BALLAST	75W LAMP(S) WITH STANDARD MAGNETIC BALLAST	HO 95W LAMP(S) WITH ES MAGNETIC BALLAST (STANDARD)	HO 110W LAMP(S) WITH ES MAGNETIC BALLAST (STANDARD)	VHO 185W LAMP(S) WITH MAGNETIC BALLAST	T12 VHO 215W LAMP(S) WITH MAGNETIC BALLAST
1	62	75	91*	100*	104* (112)*	132* (145)*	205*	230*
2	123	128	158*	173*	207* (227)*	237* (257)*	380*	450*
3	203	210		237*	311* (380)*	369* (392)*	585*	680*
4	246	256	316*	346*	414* (454)*	474* (514)*	760*	900*

# OUTDOOR LIGHTING INCENTIVES WORKSHEET

January 1, 2019 through December 31, 2019

## T8

NUMBER OF LAMPS PER FIXTURE	2-FT 17W LAMPS	3-FT 25W LAMPS	4-FT 32W U-LAMPS	4-FT RW 25W LAMP(S)	4-FT RW 28W LAMP(S)	4-FT 32W LAMP(S) (HIGH OUTPUT)	8-FT 59W LAMP(S)	8-FT HO 86W LAMP(S)
1	16	23	28	24	26	32	62	85*
2	32	46	56	44	50	59	124	160*
3	48	69	89	66	74	88	186	
4	64	92		90	99	114	248	320*
5						148		
6		134		134		175 (220)*	328	
8						224 (294)*		

## T5

NUMBER OF LAMPS PER FIXTURE	2-FT 14W LAMPS	2-FT 24W HO LAMPS	4-FT 28W LAMPS	4-FT 54W HO LAMP(S)
1	18	27*	32	62*
2	34	52*	64	117*
3	52	79*	96	179*
4	68	104*	128	240*
6			192	360*
8			256	468*



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January 1, 2019 through December 31, 2019

## HID

NOMINAL WATTS	PULSE START METAL HALIDE	METAL HALIDE	MERCURY VAPOR	HPS
50		72	74	66
60		67		
70		95		95
75			93	
90		99		
100		128*	125	138
140		153		
150		190		188
175	208	215	205	
200	232			250
210		229		
250	288	295	290	295
310				365
315		343		
350	400			
400	456	455	455	465
450	506*			
700			780*	
750	818*	850*		835*
1000	1080*	1080*	1075*	1100*
1500		1610*		