

# Lighting Incentives



Hawai'i Energy

Lighting retrofits offer the biggest value of all energy efficiency projects – they're relatively simple, significantly reduce electricity costs and typically pay back savings in less than 2 years. You may also enjoy added benefits like clearer vision, decreased cooling loads and increased safety. Our financial incentives make it easy to upgrade your outdated lighting! To learn more, call us at **839-8880** (Oahu) or **1-877-231-8222** (toll-free neighbor islands) or visit [HawaiiEnergy.com/lighting](http://HawaiiEnergy.com/lighting).

**NOTE:** Incentives apply to retrofit projects only. Please contact us for new construction or major renovation projects. All LED lamps and fixtures must be listed by ENERGY STAR® or Design Lights Consortium (DLC).

## LED

### LED: Linear

#### T12 | T8 Replacement

Lamp Length	Type	Incentive (per lamp)
2 ft.	A or B	\$ 3.00
	C	\$ 5.00
3 ft.	A or B	\$ 4.00
	C	\$ 8.00
4 ft.	A or B	\$ 4.00
	C	\$ 8.00
8 ft.	A or B	\$ 7.00
	C	\$ 14.00

#### T5 | T5 High Output (HO) Replacement

4 ft. T5	A or B	\$ 4.00
	C	\$ 8.00
4 ft. T5 HO	A or B	\$ 5.00
	C	\$ 10.00

Lamp types designated by Underwriters Laboratories (UL) under certification UL 1598:

**Type A** = Plug & Play    **Type B** = Internal driver / Line voltage    **Type C** = External Driver

**Note:** Type A designated lamps fitted with an external driver do not qualify for Type C incentives.

### LED: U-Bend

Lamp Technology	Type	Incentive (per lamp)
2 ft. LED Retrofit ** (Replaces 4 ft. U-bend)	A or B	\$ 10.00
	C	\$ 15.00
4 ft. U-bend LED (Processed as 4 ft. Linear)	A or B	\$ 4.00
	C	\$ 8.00

Lamp types designated by Underwriters Laboratories (UL) under certification UL 1598:

**Type A** = Plug & Play    **Type B** = Internal driver / Line voltage    **Type C** = External Driver

**Note:**

- Type A designated lamps fitted with an external driver do not qualify for Type C incentives.
- \*\* Replacement system must have anodized aluminum reflectors.

### LED: Troffer (fixture replacement or retrofit kit)

Fixture Size	Incentive (per fixture)	
	DLC Category: Indoor Luminaires or Indoor Retrofit Kit*	DLC Category: Indoor Retrofit Kit**
2 ft. x 2 ft.	\$ 20.00	\$ 10.00
1 or 2 ft. x 4 ft. (2 lamp replacement fixture)	\$ 20.00	\$ 14.00
2 ft. x 4 ft. (3 or 4 lamp replacement fixture)	\$ 50.00	\$ 20.00

\* General Application: Troffer; Primary Use: Ambient Lighting or Integrated Retrofit Kits

\*\* General Application: Troffer; Primary Use: Linear Retrofit Kits

**LED: Directional & Omni-Directional***LED down can kit retrofit must use custom worksheet*

Lamp Type	Incentive (per lamp)
A-series (ex: A19) / globe / decorative with screw/GU base	\$ 1.50
Replacement for plug-in CFL, 2 or 4-pin base (ex: PL)	\$ 4.00
Directional (ex: MR16, PAR/BR/R 20/30/38/40) - screw/pin base	\$ 5.00

**LED: Corn Cob (HID replacement)**

LED Lamp Wattage	Incentive (per lamp)	
Less than 35W	\$ 20.00	<ul style="list-style-type: none"> <li>Replacement lamps must be Type B or Type C.</li> <li>Ballast must be removed.</li> <li>E26 medium base lamps can qualify for prescriptive incentive if product meets DLC 4.3 technical requirements.</li> </ul>
35W to 149.9W	\$ 25.00	
150W to 219.9W	\$ 35.00	
Greater than 220W	\$ 45.00	

**LED: Exit Sign***Must replace entire fixture*

New LED Fixture	\$ 15.00 per sign
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**LED: Refrigerated Case Lighting***For vertical reach-in refrigerated case lamps and kits*

Lamp Length	Incentive (per lamp)
4 ft. retrofit kit	\$ 25.00
5 ft. or 6 ft. retrofit kits	\$ 50.00

**FLUORESCENT****Fluorescent: T12 to Standard T8 with electronic ballast**

Lamp Length	Existing Lamp	Incentive (per lamp)
2 ft.	T12	\$ 3.00
3 ft.	T12	\$ 4.00

**Lamp requirements:**

- Both T8 lamps and electronic ballasts must be installed.
- 265 mA lamps in lengths of 2 and 3 ft. (whether straight or U- bend)
- HO (high output) 400 mA lamps will also be accepted.
- Lamp efficacy must be  $\geq$  82 lumens per watt.
- 20,000-hour lamp life (3 hours per start) lamps.
- Minimum Color Rendering Index (CRI) of 75.

**Ballast requirements:**

- Operate at 20 kHz or greater.
- Rated a Class P thermal protection.
- Rated a Class A sound level.
- Have a minimum power factor of 90%.
- Have a maximum of 1.7 crest factor.
- Have a total harmonic distortion (THD) not to exceed 20% (equal to magnetic ballasts).
- Comply with FCC Rules & Regulations, Part 18 for both EMI & RFI.
- Have a reduced lamp flicker maximum of 10%.

**Fluorescent: T12 or T8 to Low-Wattage (LW) T8 (with high performance electronic ballast)**

Lamp Length	Existing Lamp	Incentive Per Lamp
4 ft.	T12	\$ 2.00
	32W T8	\$ 2.00

**LW T8 Fluorescent requirements:**

- Must be 25-watt or 28-watt and qualified under CEE.
- Initial lamp efficacy must be  $\geq$  93 lumens per watt.

**T8 High Performance Electronic Ballast requirements:**

Ballast must be qualified under CEE Specifications. Visit [www.cee1.org](http://www.cee1.org) for list of qualifying lamps and ballasts.

**Fluorescent: Delamping**

Length of Lamps Removed	Incentive (per lamp)	
	With Reflectors	Without Reflectors
2 ft.	\$ 5.00	\$ 2.50
3 ft.	\$ 7.50	\$ 3.75
4 ft.	\$ 10.00	\$ 5.00
8 ft.	\$ 15.00	\$ 7.50

**Note:** Reflectors must have a minimum reflective efficiency of 90%.

Process **MUST** include removal of all disconnected ballasts, lamps, and lamp holders (tombstones) from fixture.

**LIGHTING CONTROLS****Occupancy Sensor**

All Types (e.g. infrared, ultrasonic)	\$20.00 per sensor
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