

INCENTIVE CATALOG FOR *lighting*

Effective September 1, 2024

Pacific Power provides incentives for many types of energy-efficient technologies. Please read the following sections carefully to ensure you follow the appropriate steps for securing your incentive. Equipment must be permanently installed and may be subject to inspection before incentive approval.

Incentives for additional measures may be available. For more information about the Wattsmart Business program, eligibility requirements, incentive levels or other general inquiries, contact a [Wattsmart Business Vendor](#) or Pacific Power. You can visit the program website at [BeWattsmart.com](#), email WattsmartBusiness@PacificPower.net, or call our energy services hotline at 509-210-5011.

HIGH-EFFICIENCY LIGHTING RETROFITS

Measure description: Lighting retrofit projects are one of the most common and effective energy efficiency opportunities available to commercial and industrial customers.

Applicability:

Accelerated Replacement: Replacement of existing equipment that could and would remain operational without Wattsmart Business program intervention.

Add-on equipment: Installation of new equipment onto pre-existing equipment. Existing host system must be operational without the add-on equipment.

Normal Replacement: Replacement of existing equipment that has either failed, no longer meets current or anticipated needs, or is planned to be replaced for other reasons unrelated to the Wattsmart Business program.

Retrofit lighting projects generally do not significantly alter lighting system layouts or light levels. Lighting system redesign that significantly alters system layouts and/or light levels or is driven by changes to space use, space occupancy or occupant requirements may not be eligible for retrofit lighting incentives. For information on other lighting project types, please refer to the “New Construction/Major Renovation High-efficiency Lighting” section. Please contact us for any questions regarding retrofit lighting eligibility.

Retrofitted lighting systems are expected to meet industry standards applicable to the space(s) and use type(s) associated with the project.

Equipment eligibility: Pacific Power offers incentives for qualifying lighting equipment and lighting controls. To be eligible for the incentives listed in Table 1 and 2, equipment must be purchased and installed on or after September 1, 2024. Incentives and qualifications will be based on the program version in effect on the date of the earliest invoice from the project for deemed measures in Table 2, and based on the incentive offer issue date for projects that require pre-approval (any projects using equipment from Table 1). The new lighting system must use less energy than the existing/baseline lighting system. Lighting equipment must meet all program terms and conditions.

Listed Incentives: Incentives are offered for common lighting improvements as shown in Table 1 and Table 2, with separate requirements listed accordingly. Certain lighting technologies/upgrades have been deemed ineligible for incentives. See the “Qualified Lighting Equipment Policy” section at the end of this catalog for ineligible equipment.

Incentive caps: For site-specific measures listed in Table 1, the savings and incentives must be calculated using the lighting tool and incentive caps apply. The incentive will be limited to 80 percent of the eligible project costs and capped to maintain a simple payback greater than or equal to one year (including incentives). For deemed measures listed in Table 2, incentive caps do not apply.

Prequalification required? Before placing purchase orders, prequalification is required for upgrades listed in Table

I. You will submit a general application, and we will complete a pre-installation inspection if needed and confirm project eligibility and program influence. For upgrades listed in Table 2, you can submit an incentive application after you install your new lighting. Contact us or a Wattsmart Business Vendor for assistance in applying for these measures.

Note: Pacific Power has a lighting calculation software tool for Retrofit projects. A completed lighting tool is required for projects containing any site-specific measures listed in Table 1. If a project only has deemed measures listed in Table 2, then a lighting tool is not required. Projects containing both site-specific and deemed measures must use a lighting tool.

The lighting tool is available for Wattsmart Business Vendors to calculate project-specific energy savings, project economics, and eligible incentives for retrofit projects. Visit our website at [BeWattsmart.com](https://www.Bewattsmart.com) for a current list of participating Wattsmart Business Vendors. Contact a [participating vendor](#) or Pacific Power for next steps.

Items to submit before incentive payment: A Lighting application supplement must be submitted to receive incentives. See application supplement for additional required documents to be submitted. An inspection of the installed equipment may be required before incentive payment.

Information on lamp and ballast recycling: Fluorescent and High-Intensity Discharge (HID) lighting contain trace amounts of mercury and other toxic materials. Lamps and ballasts should always be disposed of properly in accordance with state and federal regulations. Please consult with the California Department of Resources Recycling and Recovery for information on recycling lamps and ballasts. Information on collection programs or recyclers can be found at <https://dtsc.ca.gov/fluorescent-tubes-in-the-trash/#businesses>.

| TABLE 1. RETROFIT LIGHTING EFFICIENCY REQUIREMENTS & INCENTIVES – SITE SPECIFIC MEASURES | | | | |
|--|-------------------------------|---|-------------------------|----------------------------------|
| Measure | Category | Eligibility Requirements | Project Type | Incentive |
| Interior Lighting –site specific | Custom with Advanced Controls | See program requirements for interior lighting controls section below | Add-On Equipment | \$0.30/kWh annual energy savings |
| | Custom lighting | Not Listed in Table 2 | Accelerated Replacement | \$0.25/kWh annual energy |
| Exterior Lighting –site specific | Custom Exterior Lighting | Not Listed in Table 2 | Retrofit | \$0.15 kWh/yr |

- Notes for Table 1:
1. Prequalification is required for lighting measures listed in Table 1.
 2. To be eligible for the incentives listed, the new lighting system must use less energy than the existing lighting system replaced or the baseline lighting system as determined by Pacific Power.
 3. Incentives are capped at 80 percent of Energy Efficiency project costs and incentives will not be available to reduce the Energy Efficiency Project simple payback below one year. Energy Efficiency project costs are subject to Pacific Power approval.
 4. Complete fixture removals with no replacement installed are not eligible for incentives.
 5. Qualified eligible retrofit lighting equipment is defined in qualified equipment lists in the “Qualified Lighting Equipment Policy” section at the end of this catalog.
 6. Per California state energy code (CA Title 24 - 2022) and program requirements, parking garages and areas under parking decks are considered interior spaces. Top decks are considered exterior spaces.
 7. Qualified make and model numbers need to be entered into lighting calculation tool.
 8. The Customer or Owner may receive only one financial incentive from Pacific Power per measure. Incentives listed in the table above cannot be combined with incentives received through other Pacific Power lighting offerings.
 9. Calculated lighting incentives will be the product of multiplying Pacific Power’s estimate of annual energy savings by the incentive/kWh rate listed above. Energy savings are subject to approval and incentives will be offered at Pacific Power’s sole option. Certain lighting technologies/ upgrades are ineligible for incentives. See the “Qualified Lighting Equipment Policy” section at the end of this catalog.
 10. Certain LED lighting may be eligible for the custom lighting incentive if it is not listed elsewhere in the catalog for an incentive, and if it is not listed in the Ineligible Lighting Technologies section below. Type B T5 TLEDs are eligible for the custom lighting incentive.
 11. For accelerated replacement project types, T8 TLED UL Type C lamps are not eligible for the custom lighting incentive as of March 28, 2022.
 12. For accelerated replacement and normal replacement project types, UL Type B Mogul Based Lamps for Outdoor Area/Pole and Decorative fixtures are not eligible for custom lighting incentives as of September 1st, 2024. See Exterior Lighting measure section for eligibility Table 2.

TABLE 2. RETROFIT LIGHTING EFFICIENCY REQUIREMENTS & INCENTIVES – DEEMED MEASURES

| Measure | Category | Eligibility Requirements | | Project Type | Incentive |
|-----------------------------------|-------------------------------|---|-----------------------|-------------------------|--------------|
| Interior Lighting - deemed | T8 TLED Lamp – UL Type A | See below for program requirements | | Accelerated Replacement | \$4/lamp |
| | T8 TLED Lamp – UL Type B | See below for program requirements | | Accelerated Replacement | \$5/lamp |
| | | | | Normal Replacement | \$1/lamp |
| | T8 TLED Lamp – UL Type C | Fixture with 2 Type C Lamps | | Normal Replacement | \$6/fixture |
| | | Fixture with 3 Type C Lamps | | Normal Replacement | \$8/fixture |
| | | Fixture with 4 Type C Lamps | | Normal Replacement | \$10/fixture |
| Exterior - deemed | UL Type B LED Mogul Base Lamp | Replacing an HPS lamp < 100 W | See below for program | Accelerated Replacement | \$10/lamp |
| | | Replacing an HPS Lamp >= 100 and <250 W | | | \$30/lamp |
| | | Replacing and HPS Lamp >= 250 W | | | \$50/lamp |
| | | Replacing an HPS lamp < 100 W | | Normal Replacement | \$4/lamp |
| | | Replacing an HPS Lamp >= 100 and <250 W | | | \$8/lamp |
| | | Replacing and HPS Lamp >= 250 W | | | \$18/lamp |

Notes for Table 2:

- To be eligible for the incentives listed, the new lighting system must use less energy than the existing lighting system replaced or the baseline lighting system as determined by Pacific Power.
- UL Type A/B lamps may be eligible for UL Type A or Type B incentives when configured as the respective lamp.
- Qualified eligible retrofit lighting equipment is defined in qualified equipment lists in the “Qualified Lighting Equipment Policy” section at the end of this catalog.
- Per California state energy code (CA Title 24 – 2022) and program requirements, parking garages and areas under parking decks are considered interior spaces. Top decks are considered exterior spaces.
- Qualified make and model numbers need to be entered into the Lighting application supplement.
- The Customer or Owner may receive only one financial incentive from Pacific Power per measure.

Program Requirements for T8 TLED Lamp - UL Type A

| | | |
|---------------------------|--|-----------------------------|
| Incentive: | | \$4/Lamp |
| Performance Metric | | Program Requirements |
| Lamp Efficacy | | ≥ 145 LPW |
| CRI | | ≥ 80 |
| CCT | | 2,200 K – 6,500 K |
| Power Factor | | ≥ 0.9 |
| Total Harmonic Distortion | | ≤ 20 |
| Lumen Maintenance | | L70 ≥ 50,000 |
| Minimum Warranty | | 5 Years |

Other Requirements

- LED tube must be 4-foot and designated as UL Type A or UL Type A+B, but must be configured as a UL Type A.
- The lamp must be listed under the Primary Use Category “Replacement Lamps (“plug and play”) (UL Type A)” or “Dual Mode Internal Driver (UL Type A and Type B)” on the current [DesignLights Consortium qualified product list](#).
- Must meet a minimum efficacy requirement of 145 lumens per watt (LPW).
- The LED T8 Lamp specification sheet must also list all of the compatible ballast model numbers to ensure proper operation of the measure.
- Due to testing considerations, only a product that can operate off of an electronic instant start ballast is eligible.
- Manufacturer cut sheet showing ballast compatibility must be included with application.

Restrictions

- De-lamping is not eligible.
- Re-ballast is not eligible.
- Replacement lamps designed to operate off of existing magnetic ballasts or off of other types of electronic ballasts are not eligible.

Acronyms

CCT = Correlated Color Temperature
 CRI = Color Rendering Index
 DLC = DesignLights Consortium
 LED = Light Emitting Diode
 LPW = Lumens per Watt

Program Requirements for T8 TLED Lamp - UL Type B and C

| Measures | Incentives |
|--|----------------------|
| Type B (Accelerated Replacement) | \$5/Lamp |
| Type B (Normal Replacement) | \$1/Lamp |
| Fixture with 2 Type C Lamps (Normal Replacement) | \$6/Fixture |
| Fixture with 3 Type C Lamps (Normal Replacement) | \$8/Fixture |
| Fixture with 4 Type C Lamps (Normal Replacement) | \$10/Fixture |
| Performance Metric | Program Requirements |
| System Efficacy | ≥ 160 LPW |
| CRI | ≥ 80 |
| CCT | 2,200K – 6,500K |
| Power Factor | ≥ 0.9 |
| Total Harmonic Distortion | ≤ 20% |
| Lumen Maintenance | L70 ≥ 50,000 |
| Minimum Warranty | 5 Years |

Other Requirements

- LED must be listed on qualified equipment list and must be replacing a linear fluorescent lamp(s) in an interior application or parking garage.
- Regardless of which type of alteration is triggered, the alteration of the system “shall not prevent the operation of existing, unaltered controls, and shall not alter controls to remove functions specified in Section 130.1 (Mandatory Indoor Lighting Controls).” Thus, any existing lighting control types must remain functional after installation.
- LED tube must be 4-foot and designated as UL Type B, UL Type A+B, or UL Type C. UL Type A+B (dual mode) lamps must be installed in a Type B configuration with the existing ballast removed.
- The lamp must be listed under the Primary Use Category “Internal Driver/Line Voltage (UL Type B) Lamps,” “Dual Mode Internal Driver (UL Type A and Type B),” “2-Lamp External Driver (UL Type C) Lamps,” “3-Lamp External Driver (UL Type C) Lamps,” “4-Lamp External Driver (UL Type C) Lamps” on the current Design Lights Consortium qualified product list (<https://www.designlights.org/search/>).
- Must meet a minimum efficacy requirement of 160 LPW.
- LED tube must be compatible with the installed system lighting controls. For example, if the lighting system includes dimming controls, the new LED tube must be dimmable and compatible with the installed dimming system.

Restrictions

- This measure does not apply to residential single-family residences.
- De-lamping is not eligible.
- Existing lamps and ballasts must be fully demolished and properly disposed of. “Abandon-in-place” demolition of existing ballasts is not eligible.

Acronyms

- CCT = Correlated Color Temperature
- CRI = Color Rendering Index
- DLC = DesignLights Consortium
- LED = Light Emitting Diode
- LPW = Lumens per Watt

Program Requirements for UL Type B Mogul Base

| Performance Metric | Program Requirements |
|---------------------------|----------------------|
| Fixture Efficacy | 105 |
| CRI | ≥ 70 |
| CCT | 2,200 k - 6,500 k |
| Power Factor | ≥ 0.9 |
| Total Harmonic Distortion | ≤ 20 |
| Lumen Maintenance | L70 $\geq 50,000$ |
| Minimum Warranty | 5 years |

Other Requirements

- LED must be listed on qualified equipment list and must be replacing a linear fluorescent lamp(s) in an outdoor area, roadway or outdoor decorative fixture.
- Must meet a minimum efficacy requirement of 160 LPW.
- Products must be rated for fully enclosed fixtures.
- Products must be suitable for damp or wet locations or have an ingress protection (IP) water ingress rating of 4 or better.
- The LED lamp must use a mogul base (E39, EX39, or E40) as required by DLC. R1876.

Restrictions

- This measure does not apply to residential single-family residences.
- The New Building vintage is not eligible.
- Existing lamps and ballasts must be fully demolished and properly disposed. "Abandon-in-place" demolition of existing ballasts is not eligible.
- The replacement of integrated LED fixtures or LED retrofit kits is not eligible for any measure application type.
- The replacement of LED lamps, induction, compact fluorescent, mercury vapor, low pressure sodium, and incandescent lamps is not eligible under the AR measure application type. However, since a standard practice baseline is being assumed, the replacement of these lamp types is eligible under the NR application type if operating in appropriate fixtures with mogul bases.
- Event lighting that operates less than dusk to dawn is not eligible.
- LED lamps in the DLC "Very High Output" general application category are not eligible for this measure package.

Lighting Systems - Interior Controls

Advanced Networked Lighting Controls: Advanced Networked Lighting Controls incorporate a lighting system networking component with multiple control strategies. Advanced Networked Lighting Control systems must be listed on the DesignLights Consortium's (DLC's) Networked Lighting Controls Qualified Products Lists and meet all program requirements listed below.

To be considered Advanced Networked Lighting Controls, all fixtures must be individually addressable or zonal and continuously dimmable. To meet program requirements, all fixtures using advanced networked lighting controls should incorporate Luminaire Level Lighting Controls (LLLCs). LLLCs allow for individual addressability and have occupancy and illuminance sensors integral to each individual fixture. Where LLLCs are used, each fixture must be controlled by a minimum of two qualifying control strategies with at least one being a sensor-based strategy. Please see the qualifying control strategies listed below.

In some cases, LLLCs may not be feasible or appropriate for the space. Lighting control systems that are networked and use area based sensors (non-LLLCs) may be considered as Advanced Networked Lighting Controls, but must employ additional control strategies to compensate for the savings that LLLCs would otherwise provide. Non-LLLC control systems must incorporate fixture addressability. When using area level sensors, the controlled group of fixtures should be as small as possible to most closely align with the savings possible by LLLC systems. Where non-LLLC systems are used, each fixture must be controlled by at least three qualifying control strategies with at least one being a sensor-based strategy. Please see the qualifying control strategies listed below.

| Control Strategy Type | Control Strategy | LLLC Requirements | Non-LLLC Requirements |
|-----------------------|--|--|---|
| Sensor Based | Occupancy Sensing | Incorporate a minimum of 1 Sensor Based control strategy | Incorporate a minimum of 1 Daylight/Ambient Light Harvesting – Sensor Based control strategy |
| | Daylight/Ambient Light Harvesting – Sensor Based control strategy Photocell Control w/ continuous dimming | | |
| Tuning Based | High-End Trim/Institutional Tuning – May not be combined with photocell controls outside of a daylighting zone | No minimum tuning based control strategy requirement for LLLC systems | Incorporate a minimum of 1 Tuning Personal Tuning w/Continuous dimming Based control strategy |
| | Personal Tuning w/Continuous dimming Based control strategy | | |
| | Advanced Scheduling – Changes to light level and/or sensor timeouts based on time of day | | |
| Program Requirements: | | Incorporate a minimum of 2 control strategies, meeting the requirements listed above | Incorporate a minimum of 3 control strategies, meeting the requirements listed above |

NEW CONSTRUCTION/MAJOR RENOVATION HIGH-EFFICIENCY LIGHTING (INTERIOR)

Measure description: Installing high-efficiency lighting during construction can be a cost-effective means of saving electricity.

Applicability:

New Construction: Installation of new equipment in either a new area or an area that has been subject to a major renovation, to expand capacity of existing systems, or to serve a new load.

It is expected that new construction or major renovation lighting systems meet industry standards that apply to the space(s) and use type(s) associated with the project.

Interior and/or Exterior equipment eligibility: Incentives in Table 3 are for projects with incentive offers issued on or after September 1, 2024. To qualify for incentives, the new construction/major renovation project must be completed and meet all other program terms and conditions as listed in Table 3. Only measures listed in Table 3 are eligible for new construction/major renovation lighting incentives and exterior lighting is not eligible.

For new construction/major renovation projects, the whole building’s total connected interior lighting power (watts/square foot) must be 10 percent lower than the interior lighting power allowance calculated under the applicable California energy code (see Tables 4A/B below for the current code). Lighting controls required by energy code are not eligible for incentives.

Prequalification required? Prequalification is required to receive incentives. Installed equipment may be subject to inspection prior to incentive payment.

Note: Pacific Power has a lighting calculation software tool for new construction/major renovation projects. It is available for Wattsmart Business Vendors to calculate project-specific energy savings, project economics, and eligible incentives for new construction/major renovation projects. Visit our website at BeWattsmart.com for a current list of participating Wattsmart Business Vendors. Contact a [participating vendor](#) or Pacific Power for next steps.

Items to submit with a copy of the Wattsmart Business general application:

- 1. A copy of the completed Lighting application supplement
- 2. All other documentation as requested in the application supplement.

| TABLE 3. NEW CONSTRUCTION AND MAJOR RENOVATION INTERIOR LIGHTING INCENTIVES | | | | |
|--|----------|--|------------------|----------------------------------|
| Measure | Category | Eligibility Requirements | Project Type | Incentive |
| Interior Lighting | Custom | LED must be listed on qualified equipment list | New Construction | \$0.15/kWh annual energy savings |
| <p>Notes for Table 3:</p> <ol style="list-style-type: none">Pacific Power requires that interior LED fixtures and lamps be listed on the approved products list on at least one of the following websites:<ul style="list-style-type: none">ENERGY STAR®: www.energystar.gov.DesignLights Consortium: www.designlights.org.Lighting and lighting controls required by or used to comply with the applicable version of the state energy code are not eligible for incentives.Project Cost Caps of 80 percent and one-year Simple Payback Caps apply to New Construction and Major Renovation projects that are not subject to state energy code. The one-year simple payback cap means incentives will not be available to reduce the simple payback of a project below one year. If required, individual measure incentives will be adjusted downward pro-rata so the project has a simple payback of one year after incentives. | | | | |

NEW CONSTRUCTION/MAJOR RENOVATION HIGH-EFFICIENCY LIGHTING (CONTINUED)

TABLE 4A 2022 BUILDING EFFICIENCY STANDARDS MAXIMUM LIGHTING POWER DENSITY (LPD) FOR COMPLETE BUILDING METHOD

THIS TABLE IS FOR REFERENCE ONLY

(2022 Building Efficiency Standards, Table 140.6-B, Complete Building Method Lighting Power Density Values)

| Type of Building | Allowed Lighting Power Density (Watts per Square Foot) |
|--|---|
| Assembly Building | 0.65 |
| Bank or Financial Institution Building | 0.65 |
| Industrial/Manufacturing Facility Building | 0.60 |
| Grocery Store Building | 0.90 |
| Gymnasium Building | 0.60 |
| Library Building | 0.70 |
| Healthcare Facility | 0.90 |
| Museum Building 0.65 | 0.65 |
| Office Building | 0.60 |
| Parking Garage Building | 0.13 |
| Religious Facility Building | 0.70 |
| Restaurant Building | 0.65 |
| Retail Store Building | 0.90 |
| School Building | 0.60 |
| Sports Arena Building 0.75 | 0.75 |
| Motion Picture Theater Building | 0.60 |
| Performing Arts Theater Building | 0.75 |
| All other buildings | 0.40 |

**TABLE 4B 2022 BUILDING EFFICIENCY STANDARDS MAXIMUM LIGHTING POWER DENSITY (LPD)
FOR AREA CATEGORY METHOD. THIS TABLE IS FOR REFERENCE ONLY**

(2022 Building Efficiency Standards, Table 140.6-C, Area Category Method Lighting Power Density Values)

| Primary Function Area | | Allowed Lighting Power Density for General Lighting (W/ft²) | Additional Lighting Power | |
|---|----------------------------|---|---|--|
| | | | Qualified Lighting Systems | Additional Allowance (W/ft², unless noted otherwise) |
| Aging Eye / Low-vision ¹¹ | Corridor Area | 0.70 | Decorative/Display | 0.30 |
| | Dining | 0.80 | Decorative/Display | 0.30 |
| | | | Tunable white or dim-to-warm ¹⁰ | 0.10 |
| | Lobby, Main Entry | 0.85 | Decorative/Display | 0.30 |
| | | | Tunable Lighting OFF at night ¹² | 0.95 |
| | | | Tunable white or dim-to-warm ¹⁰ | 0.10 |
| | Lounge / Waiting Area | 0.80 | Decorative/Display | 0.30 |
| | | | Ornamental | 0.10 |
| | Multipurpose Room | 0.85 | Decorative/Display | 0.30 |
| | | | Tunable white or dim-to-warm ¹⁰ | 0.10 |
| | Religious Worship Area | 1.00 | Decorative/Display | 0.30 |
| | | | Tunable white or dim-to-warm ¹⁰ | 0.10 |
| Restroom | 1.00 | Decorative/Display | 0.20 | |
| Stairwell | 0.80 | Decorative/Display | 0.30 | |
| Audience Seating Area | | 0.50 | Decorative/Display | 0.25 |
| Auditorium Area | | 0.70 | Decorative/Display | 0.45 |
| Auto Repair / Maintenance Area | | 0.55 | Detailed Task Work ⁷ | 0.20 |
| Barber, Beauty Salon, Spa Area | | 0.70 | Detailed Task Work ⁷ | 0.30 |
| | | | Decorative/Display | 0.25 |
| Civic Meeting Place Area | | 0.90 | Decorative/Display | 0.25 |
| Classroom, Lecture, Training, Vocational Area | | 0.60 | White or Chalk Board ¹ | 7 W/ft |
| Concourse and Atria Area | | 0.60 | Decorative/Display | 0.25 |
| Convention, Conference, Multipurpose | | 0.75 | Decorative/Display | 0.525 |
| Copy Room | | 0.50 | — | — |
| Corridor Area | | 0.40 | Decorative/Display | 0.25 |
| Dining Area | Bar/Lounge and Fine Dining | 0.45 | Decorative/Display | 0.35 |
| | Cafeteria/Fast Food | 0.45 | Decorative/Display | 0.25 |
| | Family and Leisure | 0.40 | Decorative/Display | 0.25 |
| Electrical, Mechanical, Telephone Rooms | | 0.40 | Detailed Task Work ⁷ | 0.20 |
| Exercise/Fitness Center and Gymnasium Area | | 0.50 | — | — |
| Financial Transaction Area | | 0.70 | Decorative/Display | 0.25 |
| Healthcare Facility and Hospitals | Exam/ Treatment Room | 1.15 | — | — |

| Primary Function Area | | Allowed Lighting Power Density for General Lighting (W/ft²) | Additional Lighting Power | |
|--|--|---|--|--|
| | | | Qualified Lighting Systems | Additional Allowance (W/ft², unless noted otherwise) |
| Healthcare Facility and Hospitals | Imaging Room | 0.60 | Decorative/Display | 0.20 |
| | | | Tunable white or dim-to-warm ¹⁰ | 0.10 |
| | Medical Supply Room | 0.55 | — | — |
| | Nursery | 0.80 | Tunable white or dim-to-warm ¹⁰ | 0.10 |
| | Nurse's Station | 0.85 | Tunable white or dim-to-warm ¹⁰ | 0.10 |
| | Operating Room | 1.90 | — | — |
| | Patient Room | 0.70 | Decorative/Display | 0.15 |
| | | | Tunable white or dim-to-warm ¹⁰ | 0.10 |
| | Physical Therapy Room | 0.75 | Tunable white or dim-to-warm ¹⁰ | 0.10 |
| | Recovery Room | 0.90 | Tunable white or dim-to-warm ¹⁰ | 0.10 |
| Hotel Function Area | | 0.85 | Decorative/Display | 0.25 |
| Kitchen/Food Preparation Area | | 0.95 | — | — |
| Laboratory, Scientific | | 0.90 | Specialized Task Work ⁸ | 0.35 |
| Laundry Area | | 0.45 | — | — |
| Library | Reading Area | 0.80 | Decorative/Display | 0.25 |
| | Stacks Area | 1.00 | — | — |
| Lobby, Main Entry | | 0.70 | Decorative/Display | 0.25 |
| Locker Room | | 0.45 | — | — |
| Lounge, Breakroom, or Waiting Area | | 0.55 | Decorative/Display | 0.25 |
| Manufacturing, Commercial & Industrial Work Area | Low Bay | 0.60 | Detailed Task Work ⁷ | 0.20 |
| | High Bay | 0.65 | Detailed Task Work ⁷ | 0.20 |
| | Precision | 0.85 | Precision Specialized Work ⁹ | 0.70 |
| Museum Area | Exhibition/Display | 0.60 | Decorative/Display | 0.45 |
| | Restoration Room | 0.70 | Detailed Task Work ⁷ | 0.35 |
| Office Area | > 250 square feet | 0.65 | Decorative/Display and Portable lighting for office areas ⁶ | 0.20 |
| | ≤ 250 square feet | 0.65 | | |
| Parking Garage Area | Parking Zone and Ramps | 0.10 | First ATM or Ticket Machine | 100 W |
| | | | Additional ATM or Ticket Machine | 50 W/ea |
| | Daylight Adaptation Zones ² | 1.00 | — | — |
| Pharmacy Area | | 1.00 | Specialized Task Work ⁸ | 0.35 |
| Retail Sales Area | Grocery Sales | 1.00 | — | — |
| | | | Decorative/Display | 0.35 |
| | Retail Merchandise Sales | 0.9 | — | — |
| | | | Decorative/Display | 0.35 |
| | Fitting Room | 0.60 | External Illuminated Mirror ⁵ | 40 W/ea |
| | | | External Illuminated Mirror ⁵ | 120 W/ea |

| Primary Function Area | | Allowed Lighting Power Density for General Lighting (W/ft ²) | Additional Lighting Power | |
|----------------------------------|----------------------------------|--|---------------------------------|---|
| | | | Qualified Lighting Systems | Additional Allowance (W/ft ² , unless noted otherwise) |
| Religious Worship Area | | 0.95 | Decorative/Display | 0.25 |
| Restrooms | | 0.65 | Decorative/Display | 0.35 |
| Stairwell | | 0.60 | Decorative/Display | 0.35 |
| Storage, Commercial / Industrial | Warehouse | 0.40 | Decorative/Display | 0.25 |
| | Shipping & Handling | 0.60 | — | — |
| Sports Arena – Playing Area | Class I Facility ¹³ | 2.25 | — | — |
| | Class II Facility ¹³ | 1.45 | — | — |
| | Class III Facility ¹³ | 1.10 | — | — |
| | Class IV Facility ¹³ | 0.75 | — | — |
| Theater Area | Motion picture | 0.50 | Decorative/Display | 0.25 |
| | Performance | 0.80 | Decorative/Display | 0.25 |
| Transportation Function | Baggage Area | 0.40 | — | — |
| | Ticketing Area | 0.45 | Decorative/Display | 0.20 |
| Videoconferencing Studio | | 0.90 | Videoconferencing ¹⁴ | 1.00 |
| All other | | 0.40 | — | — |

Footnotes for this table are listed below.

1. Whiteboard or chalkboard. – Directional lighting dedicated to a whiteboard or chalkboard. Daylight Adaptation Zones shall be no longer than 66 feet from the entrance to the parking garage.
2. Reserved
3. Reserved
4. Illuminated mirrors. Lighting shall be dedicated to the mirror.
5. Portable lighting in office areas includes under shelf or furniture-mounted supplemental task lighting qualifies when controlled by a time clock or an occupancy sensor.
6. Detailed task work – Lighting provides high level of visual acuity required for activities with close attention to small elements and/or extreme close up work.
7. Specialized task work – Lighting provides for small-scale, cognitive or fast performance visual tasks; lighting required for operating specialized equipment associated with pharmaceutical/laboratorial activities.
8. Precision specialized work – Lighting for work performed within a commercial or industrial environment that entails working with low contrast, finely detailed, or fast moving objects.
9. Tunable white luminaires capable of color change greater than or equal to 2000K CCT, or dim-to-warm luminaires capable of color change greater than or equal to 500K CCT, connected to controls that allows color changing of the luminaires.
10. Aging Eye/Low-vision areas can be documented as being designed to comply with the light levels in ANSI/IES RP-28 and are or will be licensed by local or state authorities for either senior long-term care, adult day care, senior support, and/or people with special visual needs.
11. Transition lighting OFF at night. Lighting power controlled by astronomical time clock or other control to shut off lighting at night. Additional LPD only applies to area within 30 feet of an exit. Not applicable to lighting in daylight zones.
12. Class I Facility is used for competition play for 5000 or more spectators. Class II Facility is used for competition play for up to 5000 spectators. Class III Facility is used for competition play for up to 2000 spectators. Class IV Facility is normally used for recreational play and there is limited or no provision for spectators.
13. The additional videoconferencing lighting power shall be allowed provided the videoconferencing studio meets all the requirements of
14. Section 140.6(c)2Gvii

NEW CONSTRUCTION/MAJOR RENOVATION EXTERIOR LIGHTING

Exterior lighting in new construction/major renovation applications is not eligible for incentives.

QUALIFIED LIGHTING EQUIPMENT POLICY

This policy applies to all lighting incentive eligibility as described in this Lighting Catalog and is effective June 15, 2023, for all retrofit projects with a valid Incentive Offer or lighting incentive application. For new construction/major renovation interior lighting projects, using lighting equipment listed on one of the qualified equipment lists is recommended but not required. This lighting equipment policy supersedes all previous Wattsmart Business LED/SSL qualification policies. For lighting technologies not specified below, nor listed in the “Ineligible Lighting Technologies” section, qualified product listings are not required.

General Illuminance Lighting

To qualify for incentives, any general illuminance product submitted for an incentive must meet the requirements as listed below.

General illuminance lighting is defined below:

- **Interior:** All lighting equipment contributing to the lighting power density (LPD) of a space falls into the general illuminance category. All LED/SSL equipment contributing to LPD must be on one of the qualifying lists to be eligible for incentives. Low-voltage LEDs must be listed on the current qualifying list.
- **Exterior:** Exterior lighting is not eligible for incentives.

LED/SSL Products

To qualify for incentives, any general illuminance LED/SSL product submitted for an incentive must be listed on at least one of the Qualified Fixture List options below. Documentation of the LED/SSL listing must be included for each product type and project submitted. The product must be listed on the qualified list at the time of project pre-approval. Projects using equipment not listed on one of the Qualified Fixture List options below may be rejected. Please note that products used in lighting applications outside of the listed category are subject to review and may not be eligible for incentives. It is the customer's responsibility to ensure that the LED products selected have received the appropriate (NRTL) safety certifications.

Option 1: ENERGY STAR® qualified fixtures and lamps list:

- www.energystar.gov
 - The majority of products on the ENERGY STAR® list are lamps or recessed can fixtures.

Option 2: DesignLights Consortium's (DLC) Commercial Fixtures qualified list:

- www.designlights.org
 - The majority of products listed here are either fixtures or retrofit products.

The above lists are updated monthly. To access the current lists, or for information on how to get product qualified, please refer to each organization's website.

Pacific Power does NOT endorse any of the LED products on the above lists. Pacific Power reserves the right to review and approve any LED product on a case-by-case basis. Pacific Power reserves the right to reject any product that is used outside of its DLC or ENERGY STAR® approved category.

LED/SSL Products Exceptions (subject to approval)

If the product is NOT listed on one of the above lists, contact the manufacturer to obtain these certifications or consider using a listed product. Participants may request exceptions to this policy. To be considered for exceptions, products must

fit the descriptions below and the Participant must provide the necessary documentation to be considered as an alternate means of product qualification.

Non-general illuminance

- Lighting equipment that does not meet the definition of general illuminance lighting is considered non-general illuminance lighting. Examples of non-general illuminance lighting include signage and specialty lighting (i.e. LED Message Center, Channel Letter, and Stage Lighting). Please note that non-general illuminance lighting requires NRTL certification, as well as prequalification through the custom measure pathway. Non-general illuminance does not require a separate application for exception. Please see the non-general illuminance section below.

Specialized products that do not have a corresponding category on the qualified list:

- Products with a specialized application that do not have a category on the qualified lists may be considered for incentive eligibility on a case-by-case basis.
 - » For example, indoor underwater pool lights.
- To be considered for an exception, participants must submit the product specifications to Pacific Power for review by lighting specialists.
- Exceptions are only available for products without a listed category. Products with a corresponding category but used in a specialized application will not be considered for an exception. Approved exceptions will be eligible for incentives at the listed lighting incentive rate.

Products with variance from qualified models due to non-performance based attributes:

- Products whose model number varies from the qualified base fixture model due to attributes that do not affect lighting performance may be considered for incentive eligibility on a case-by-case basis.
 - » Attributes that may be considered for exception:
- Integral Controls
- Input Voltage
- Mounting Type
- Housing Color
- Products with model number variations from a similar listed product may be considered for a “family exception” if the proposed product meets or exceeds the selected Qualified Products List’s technical requirements.
- To be considered for this exception, participants must submit the product specifications to Pacific Power for both the qualified model and the variant model for review by a lighting specialist. The product specifications must demonstrate that performance is not altered by the variant attribute(s).
- Approved exceptions will be eligible for incentives listed in the incentive tables.

Updates to already qualified products:

- New and improved versions of an already qualified product may be considered for incentive eligibility on a case-by-case basis.
- Participant must submit manufacturer’s documentation that the product is simply a newer generation and will be submitted to one of the two approved lists. Documentation must show base fixture plus new specifications of that same fixture.

Advanced Networked Lighting Control (ANLC) Products

To qualify for incentives, ANLCs must be listed on DesignLights Consortium’s (DLC) Networked Lighting Controls list. Documentation of the ANLC listing must be included for each control system and project submitted. The product must be actively listed on the qualified list at some point during the project duration (inception through project completion). Upon completion of the project, proof of commissioning needs to be provided.

Advanced Network Lighting Controls are required to individually address and network each luminaire and control device. See program requirements for interior lighting systems controls section above for additional program requirements.

Advanced Control Products Exceptions (subject to approval)

If the lighting control is NOT listed on DLCs Networked Lighting Controls list, please contact the manufacturer to obtain the certification or consider using a listed product. There are exceptions to this policy. To be considered for an exception, control products must fit the descriptions below and the Participant must provide all the necessary documentation to be considered as an alternate means of product qualification.

Existing building automation/control systems

Existing building automation systems that integrate and control lighting systems may be considered as eligible advanced lighting controls. To be considered for an exception, building automation systems must comply with the DLC list of required system capabilities for Networked Lighting

Controls (see list below). Documentation of each capability must be submitted to be considered for an exception.

- » Networking of Luminaires and Devices » Occupancy Sensing
- » Daylight Harvesting / Photocell Control » High-End Trim
- » Zoning
- » Luminaire and Device Addressability
- » Continuous Dimming

To be considered for an exception, building automation systems are required to individually address and network each luminaire and control device. Please refer to the Advanced Networked Lighting Controls Strategies Requirements table for details.

Area Level Lighting Controllers

In certain situations, luminaire level lighting controls may not provide additional energy savings as compared to area controllers. Area controls meeting all other advanced control requirements may be eligible for advanced control incentives based on area characteristics such as space square footage and total wattage controlled. Exceptions to luminaire level lighting control requirements are considered on a space-by-space basis.

Alternative Control Strategies

Some control strategies not listed above may be allowed in addition to (or as a replacement of) listed qualifying control strategies. Alternative control strategies must provide equivalent or higher energy savings than listed qualifying control strategies. Exceptions to qualifying control strategies are considered on a project-by-project basis.

Instructions for requesting an exception

Participant requesting an exception should submit their product information to the Pacific Power project manager supporting the project or send an email to WattsmartBusiness@PacificPower.net. Include your customer name and location so the information can be tied to your project in process with us.

Vendors (electrical contractors, manufacturers and distributors) requesting an exception should submit their product information to a Wattsmart Business Vendor Network coordinator.

Exception requests are accepted from active projects and projects in preliminary stages only. Completed projects are not eligible for an exception. Submittals containing mass quantities of product types will not be accepted.

Exception applications are reviewed by a lighting specialist. A response will be provided within three (3) business days.

If an exception request is approved, the response provided will include an acknowledgment that the product is eligible

for incentives. A participant/vendor may use the product in future projects, but must submit the product information and acknowledgment of the exception as part of the project information submission process.

If you have questions about the policy or what documentation is required, please contact your Wattsmart Business Vendor Network coordinator or contact us to verify all purchased equipment is on the current Qualified Equipment List at 509-210-5011 or WattsmartBusiness@PacificPower.net.

Non-General Illuminance Lighting

Lighting equipment that does not meet the definition of general illuminance lighting, is considered non-general illuminance lighting. Examples of non-general illuminance lighting include signage and specialty lighting (i.e. LED Message Center, Channel Letter, and Stage Lighting). Interior Non-General Illuminance Lighting may qualify for incentives under the custom lighting pathway. Exterior Non-General Illuminance Lighting is not eligible for incentives.

Ineligible Lighting Technologies

Certain lighting technologies/upgrades have been deemed ineligible for incentives. The following technologies are not eligible to receive incentives through the Wattsmart Business program for retrofit and new construction projects.

| Category | Description |
|-------------------------|---|
| HID | HPS-High Pressure Sodium. |
| | MH-Metal Halide. |
| | MV-Mercury Vapor. |
| | PSMH-Pulse Start Metal Halide less than 500 Watts. |
| | CMH-Ceramic Metal Halide. |
| | PSMH-Pulse Start Metal Halide. |
| | Pulse Start Metal Halide Electronic ballasts. (effective 2/10/2017) |
| Fluorescent | T5, T8, T10, T12, T17 fluorescent Lamps. |
| Incandescent | All incandescent lamps. |
| Induction | Induction retrofits and retrofit-kits using existing fixture housing. |
| LED | LED refrigerated case lighting. |
| | LED exit lighting. |
| | LED traffic lights. |
| | LEDs not listed on a qualified equipment list. |
| CFL | Compact Fluorescent Lamps. |
| Fixture Relamps | Incentives are not offered for Mogul base, Edison base, pin-based, or any screw-in LED product, unless they are listed in Tables 1 and 2 above. |
| All Lighting Categories | All exterior controls. |