

EPLC2-LED-100W

Explosion Proof LED Light - Equivalent to 100-150 Watt HID – C1D2

Product ID: 69090

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EPLC2-LED-100W Proof LED Light - Equivalent to 100-150 Watt HID – C1D2, NRTL Certified to UL

Listing: United States - Canada

Lamp Type: LED

Dimensions: 11.03 x 11.8 x 10.77 inches

Voltage: 120-277VAC 50/60 Hz

Weight: 21.80 lbs

Total Watts: 43

Lumens: 5,335

Luminous Efficacy: 124 LPW

Lamp Life: 50,000+ Hours

Color Temp: 5000K

Color Rendering Index: 70 CRI

Lighting Configuration: Flood Pattern

Ambient Operating Temp Range: -40°C to 65°C

Housing Material: Die Cast Aluminum

Housing Finish: Epoxy Powder Coat

Lens Material: Heat and Impact Resistant Glass

Mounting: Pendant, Ceiling, Wall, Stanchion

Quick Summary

Class I Division 2, Groups A, B, C, D

Class I Zone 2

Class II Groups E, F, G

Class III

IECEX/ATEX/CE

IP66 Rated

NRTL Certified to UL 1598

NRTL Certified to UL 8750

NRTL Certified to UL 844

NRTL Certified to UL 50

Suitable for Wet Locations

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics explosion proof LED is designed for use in

hazardous work areas, such as chemical plants, oil refineries and settings where combustible gases or dust may be present. This 43-watt fixture comes with the following explosion proof ratings: Class I Division 2, Class II and Class III. The unit features a compact, modular design, offers up to 67 percent in energy savings and supports solid state features that can withstand rough treatment in demanding environments.

Features: This hazardous area LED light is designed to replace 100-150 watt HID lamps. It can deliver up to 5,335 lumens (124 lumens-per-watt) with a brilliant white 5,000K color temperature rating (70 CRI). During output, the 43-watt luminary features a flood pattern beam and runs on 120-277VAC 50/60 Hz. With an ambient operating temperature range of -40° C to 65°C, this unit may operate in cold temperature environments without lengthy warm-up periods (instant illumination).

The explosion proof LED fixture's housing is constructed of die cast aluminum with an epoxy powder coat (heat and impact resistant glass lens); and its external hardware components are made up of stainless steel. This unit comes with a voltage range of 108-250VDC, > 0.90 power factor and < 20% total harmonic distortion (THD). The LED light is suitable for locations with mounting heights of 8-60 feet. It may be mounted using the following options: pendant, wall, ceiling and stanchion.

This explosion proof LED light may be used in the following hazardous locations: Class I Division 2 (Groups A, B, C, D), Class I Zone 2, Class II (Groups E, F, G) and Class III. It is IP66, type 4X and IECEx/ATEX/CE rated. This unit also complies with NRTL Certified to UL 8750, NRTL Certified to UL 844, NRTL Certified to UL 1598 and NRTL Certified to UL 50. Operators may use this luminary in processing mills, mining sites, oil and gas refineries, food and beverage facilities and petrochemical plants. In addition to hazardous areas, this fixture is suitable for use in corrosive, wet and dusty environments.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

Applications: This explosion proof self-righting light may be used to support industrial works in the following sectors: manufacturing, warehouse, fire and rescue, outdoor construction sites, mining and utility. It is also suitable for hazardous locations and wet areas where petrochemical vapors, combustible gases and dust may be present.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

1. Low power consumption.
2. Instant on/off operation.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.
4. Superior color rendering compared to HPS, LPS, MV.
5. Retains 80% lumen output after 60,000 operating hours.
6. Powder coated aluminum fixture body.
7. Low profile - Light weight
8. 3,600 Lumen output from only 39 watts
1. 100,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LEED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off – No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.



Frequently Asked Questions (FAQ)









EPLC2-LED-100W

Product ID: 69090

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPLC2-LED-100W-Mounting-Color Temp

Example: EPLC2-LED-100W-STCH-WW

Mounting	
STANCHION	-STCH
PENDANT	-PND
WALL	-WAL
CEILING	-CLG

Color Temp	
WARM WHITE	-WW
COOL WHITE	-CW

Links (Click on the below items to view):

- [Operations Manual](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
- [HigResPic9](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)