

EPL-MJ-25W-LED-3480-PND

25W Explosion Proof LED Light, C1D1, 347/480V, 3,750 lms, Pendant Mount, Mason Jar / Jelly Jar

Product ID: 276701

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



Image: EPL-MJ-25W-LED-3480-PND

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.

EPL-MJ-25W-LED-3480-PND - Explosion Proof LED Light

Listing: NRTL Listed to United States, Canada

Lamp Technology: LED

Dimensions: 6.22"-OD x 12.3"-H

Weight: 10 lbs

Voltage: 347-480V AC 50/60 Hz

Total Watts: 25W

Total Lumens: 3,750 lms

Luminous Efficacy: 150 Lm/w

Lamp Life: 75,000+ Hours

Color Temp: 5000K, 4500K, 4000K, 3500K or 3000K

Color Rendering Index: >80 CRI

Lamp Type: Integrated LED

Lamp Base: N/A

Replacement Lamp: -

Beam Angle: 360°

Lighting Configuration: Flood Pattern

NEMA Type (Lighting): 7H x 7V

IES Classification: Type VS

Longitudinal Classification: Very Short

Ratings/Approvals

Class I, Division 1, Groups C and D

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

Class II, Divisions 1 & 2, Groups E, F and G

Class III, Divisions 1 & 2

Certified to UL 844 Ed. 13

Certified to UL 1598

Certified to C22.2 No. 137 Rev 2009

Certified to C22.2 No. 250.0

Certified to C22.2 No. 30-M-1986 Rev 2012

IEC 60529 Tested

IP67 Rated Waterproof

LEL Approved

Replacement for Metal Halide, HPS, Mercury Vapor,

Halogen, CFL and Incandescent Lamps

Pyramid Light Distribution

Field Serviceable

Cutoff Classification: Non-Cutoff
CIE Type: Semi-Direct
BUG Rating: B1-U4-G2
Power Efficiency: >95%
Power Factor: 0.959
Amps: 0.07A @ 347V, 0.05A @ 480V
Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T5
Housing Material: Copper Free Cast Aluminum (non sparking)
Housing Finish: Epoxy Powder Coated - Gray
Lens Material: Hardened Borosilicate Glass
Gasket Material: Silicone
Mounting: Pendant Mount - Other Mounts Available
Wiring: Internal Wiring Junction Box
Wiring Hub: (1) 3/4" NPT

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

The Larson Electronics EPL-MJ-25W-LED-3480-PND Explosion Proof LED Light Fixture provides operators with a powerful alternative to traditional hazardous location luminaries, including metal halide, high pressure sodium, mercury vapor, halogen, CFL and incandescent lamps. This 25-watt LED unit offers 3,750 lumens, carries an IP67 waterproof rating and features an extended lifespan of 75,000+ hours. Compatible with pendant mounting installations, the mason jar style fixture is field serviceable and features pyramid light distribution that closely resembles traditional bulbs.

The EPL-MJ-25W-LED-3480-PND is a Class I, Division 1 & 2 and Class II, Division 1 & 2 explosion proof light fixture that is designed for energy efficient and superior illumination in combustible environments. This 25-watt mason jar style fixture offers 3,750 lumens of high quality light with a color temperature of 5000K. We also offer 4500K, 4000K, 3500K and 3000K color temperature options (longer lead times may apply for non-standard temperatures). This compact fixture is a suitable replacement for metal halide, high pressure sodium, mercury vapor, halogen, CFL and incandescent lights. The LED unit features a pyramid configuration to ensure complete light distribution that closely represents light output of traditional bulbs (unlike other LED lights that utilize a flat board causing light to be pushed directly downwards). This solution promotes vertical lighting and reduces the limitations associated with directional lighting. We can add a metal reflector at an additional cost.

This lighting solution for explosive sites is IP67 rated, dust-proof and protected against high pressure jets and temporary submersion. The non-sparking housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronic components.

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.

LED Drivers: Even in LED fixtures, heat is the single largest factor in premature light failure and color shifting. As a result, many manufacturers reduce the output of their LEDs in order to reduce the amount of heat produced. Rather than lower light output or quality, Larson Electronics addresses this problem with the addition of an electronic LED driver. This internal driver provides the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. This not only reduces the energy dissipation, effectively lowering the operating temperature of the fixture, but also prevents AC over-voltage and short circuit loading making this fixture virtually maintenance free. Because the electronic driver allows the EPL-MJ-25W-LED-3480-PND to run at a cooler internal temperature and regulates the electrical current, energy efficiency and LED service hours are maximized while at the same time reducing operating costs and downtime incurred from the frequent servicing intervals required with other hotter running lights.

Field Serviceability: This explosion proof LED light fixture is field serviceable. All major internal components can be purchased from Larson Electronics and installed by a licensed electrician with basic tools. With most explosion proof fixtures, the fixture must be returned to the manufacturer for repair work, which presents downtime and long turn around times for repair work. Larson Electronics addresses this issue with the EPL-MJ series with field serviceability, allowing operators to perform service work without having to return the fixture to the manufacturer in the event of damage or failure.

Voltage: This light is universal voltage capable and can be operated with 347-480 V AC without modifications. 347 V is common in Western Canada, while 480 V is common in the United States and Eastern Canada. The drivers in this unit provide the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These lights can operate on current ranging from 347 V to 480 V 50/60Hz without any modifications necessary as a result. This ability to sense and adjust input current also provides protection against voltage spikes and drops that can occur in electrical systems which would otherwise result in burning up or premature LED failure without it.

Mount: This explosion proof mason jar style LED light fixture comes standard with pendant mounting features, which cater to installations that hang from the ceiling. Several mounting options including wall, ceiling, angled wall, angled stanchion and top hat/pan adapter mounts for replacing existing light fixtures can be ordered separately.

Suggested Applications: Hazardous locations, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, chemical manufacturing, waste treatment plants, gas processing plants and more.

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.



Frequently Asked Questions (FAQ)

There are no Faqs



Image: EPL-MJ-25W-LED-3480-PND

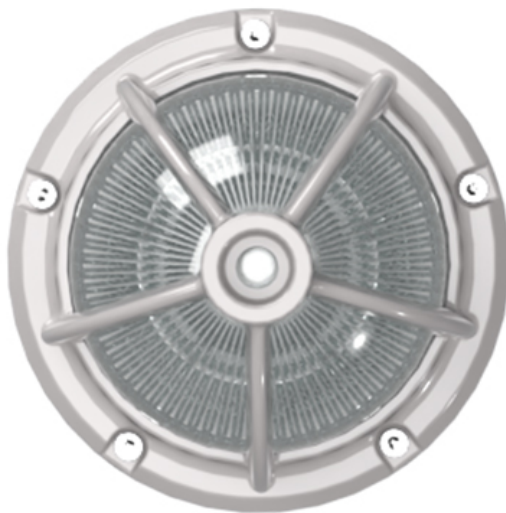


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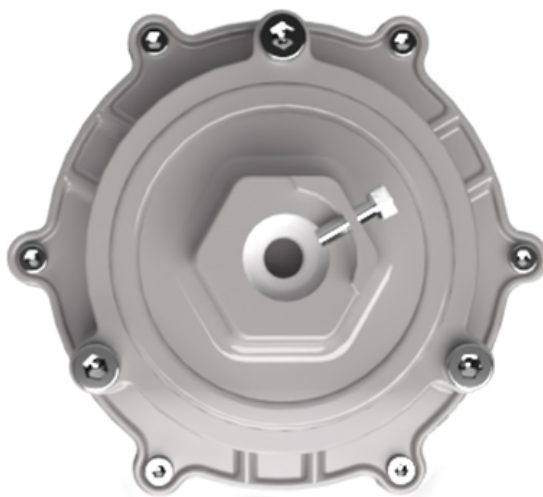


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Product ID: 276701

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-MJ-25W-LED-3480-PND-Color Temperature

Example: EPL-MJ-25W-LED-3480-PND-5000K

Color Temperature	
5000K	-5000K
4500K	-4500K
4000K	-4000K
3500K	-3500K
3000K	-3000K

Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(<https://www.larsonelectronics.com/images/product/CECCert/276701.PDF>)
- **Catalog Page - Product Series**(<https://www.larsonelectronics.com/images/product/CatalogPage/276701.PDF>)
- **CE Certificate**(<https://www.larsonelectronics.com/images/product/CECert/276701.PDF>)
- **Dimensional Drawing 2D**(<https://www.larsonelectronics.com/images/product/DimensionalDrawing/276701.PDF>)
- **IES (Photometric File)**(<https://www.larsonelectronics.com/images/product/ies/276701.ZIP>)
- **LM80**(<https://www.larsonelectronics.com/images/product/LM80/276701.PDF>)
- **MSDS (Material Safety Data Sheet)**(<https://www.larsonelectronics.com/images/product/Msds/276701.PDF>)
- **Operations Manual**(<https://www.larsonelectronics.com/images/product/Manual/276701.PDF>)
- **Photometric DarkSky Report**(<https://www.larsonelectronics.com/images/product/DarkSkyReport/276701.PDF>)
- **Photometric Flood Report**(<https://www.larsonelectronics.com/images/product/FloodReport/276701.PDF>)
- **Photometric Indoor Report**(<https://www.larsonelectronics.com/images/product/IndoorReport/276701.PDF>)
- **Photometric Polar Graph**(<https://www.larsonelectronics.com/images/product/PolarGraph/276701.PDF>)
- **Photometric Road Report**(<https://www.larsonelectronics.com/images/product/RoadReport/276701.PDF>)
- **RoHS Certificate (Restriction of Hazardous Substances)**(<https://www.larsonelectronics.com/images/product/RoHSCert/276701.PDF>)
- **Spectrum Curve (Wavelength Graph)**(<https://www.larsonelectronics.com/images/product/SpectrumChart/276701.PDF>)
- **STEP File (3D CAD Model)**(<https://www.larsonelectronics.com/images/product/Step/276701.ZIP>)
- **TM21**(<https://www.larsonelectronics.com/images/product/TM21/276701.PDF>)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(<https://www.larsonelectronics.com/images/product/NECCert/276701.PDF>)
- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/276701.JPG>)
- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/276701.JPG>)
- **HigResPic3**(<https://www.larsonelectronics.com/images/product/HigResPic3/276701.JPG>)
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- **HigResPic5**(<https://www.larsonelectronics.com/images/product/HigResPic5/276701.JPG>)
- **Video1**(https://www.youtube.com/watch?v=RooToWS_Yrk)
- **ISO 9001 Certification**(<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate**(<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
- **Shipping Time Map**(<https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf>)