Larson Electronics LLC
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EPL-MJ-15W-LED-1227-CM

15W Explosion Proof LED Light, C1D1, 120-277V, 2,250 lms, Ceiling Mount, Mason Jar / Jelly Jar

Product ID: 276346

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



Image: EPL-MJ-15W-LED-1227-CM

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-15W-LED-1227-CM - Explosion Proof LED Light

Listing: NRTL Listed to United States, Canada
Lamp Technology: LED
Dimensions: 6.22"-OD x 13.5"-H
Weight: 10 lbs
Voltage: 120-277V AC, 50/60Hz
Total Watts: 15W
Total Lumens: 2,250 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
Cutoff Classification: Non-Cutoff

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
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
NRTL Certified to C22.2 No. 137 Rev 2009
NRTL Certified to C22.2 No. 250.0
NRTL 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

CIE Type: Semi-Direct
BUG Rating: B1-U4-G2
Power Efficiency: >95%
Power Factor: 0.959
Amps: 0.125A @ 120V, 0.073A @ 208V, 0.068A @ 220V, 0.063A @ 240V, 0.055A @ 277V
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: Ceiling Mount - Other Mounts Available
Wiring: Internal Wiring Junction Box
Wiring Hub: (4) 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-15W-LED-1227-CM 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 15-watt LED unit offers 2,250 lumens, carries an IP67 waterproof rating and features an extended lifespan of 75,000+ hours. Compatible with ceiling mount installations, the mason jar style fixture is field serviceable and features pyramid light distribution that closely resembles traditional bulbs.

The EPL-MJ-15W-LED-1227-CM 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 15-watt mason jar style fixture offers 2,250 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-15W-LED-1227-CM 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: The light is universal voltage capable and can be operated with 120-277V AC, 50/60Hz.

Mount: This explosion proof mason jar style LED light fixture comes standard with ceiling mounting features. Several mounting options including wall, pendant, 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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EPL-MJ-15W-LED-1227-CM

Product ID: 276346

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:

EPL-MJ-15W-LED-1227-CM-Color Temperature
Example: EPL-MJ-15W-LED-1227-CM-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/276346.PDF)
- **Catalog Page - Product Series**(https://www.larsonelectronics.com/images/product/CatalogPage/276346.PDF)
- **CE Certificate**(https://www.larsonelectronics.com/images/product/CECert/276346.PDF)
- **IES (Photometric File)**(https://www.larsonelectronics.com/images/product/ies/276346.ZIP)
- **LM80**(https://www.larsonelectronics.com/images/product/LM80/276346.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/276346.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/276346.PDF)
- **Photometric DarkSky Report**(https://www.larsonelectronics.com/images/product/DarkSkyReport/276346.PDF)
- **Photometric Flood Report**(https://www.larsonelectronics.com/images/product/FloodReport/276346.PDF)
- **Photometric Indoor Report**(https://www.larsonelectronics.com/images/product/IndoorReport/276346.PDF)
- **Photometric Polar Graph**(https://www.larsonelectronics.com/images/product/PolarGraph/276346.PDF)
- **Photometric Road Report**(https://www.larsonelectronics.com/images/product/RoadReport/276346.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/276346.PDF)
- **Spectrum Curve (Wavelength Graph)**(https://www.larsonelectronics.com/images/product/SpectrumChart/276346.PDF)
- **STEP File (3D CAD Model)**(https://www.larsonelectronics.com/images/product/Step/276346.ZIP)
- **TM21**(https://www.larsonelectronics.com/images/product/TM21/276346.PDF)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com/images/product/NECCert/276346.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/276346.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/276346.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/276346.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/276346.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/276346.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/276346.JPG)
- **Video1**(https://www.youtube.com/watch?v=s4-63tz-Kco)
- **Video2**(https://www.youtube.com/watch?v=RgZ5cW2nVmM)
- **Video3**(https://www.youtube.com/watch?v=V8QmJOWhzuU)
- **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)