Larson Electronics LLC
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EPL-LP-12-LED

26 Watt Explosion Proof Low Profile LED Fixture - 3,380 Lumens - Class 1 & 2 Div 1 & 2

Product ID: 147703

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



Image: EPL-LP-12-LED

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-LP-12-LED Explosion Proof Low Profile LED

Lamp Type: LED
Listing: United States, Canada
Dimensions: 23.658"L x 5.35"W x 7.239"H
Weight: 4.75 lbs
Voltage: Universal 100-277V AC, 50/60Hz or 12-24V DC
Total Watts: 26W
Lumens: 3,380
Luminous Efficacy: 130 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5000K, 4500K or 3000K
Color Rendering Index: >75 CRI
Beam Angle: 100° Horizontal, 140° Vertical
Lighting Configuration: Wide Flood Pattern
Power Efficiency: >95%
Power Factor: 0.992
Amperage: 0.44A @ 120V, 0.22 @ 240V, 0.19 @ 277V
Ambient Operating Temp Range: -50°C to +65°C
Operating Temp Rating: T6
Housing Material: Copper Free Cast Aluminum
Lens Material: Hardened Borosilicate Glass
Mounting: 3/4" Pendant & Swivel Mount - Both Ship w/ Fixture

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
T6 Temperature Rating
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
Certified to C22.2 No. 137 Rev 2014
Certified to C22.2 No. 250.0
Paint Spray Booth Approved
Factory Sealed Light Fixture

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187

Wiring: Terminal Strips
Wiring Hub: 3/4" NPT

Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The EPL-LP-12-LED from Larson Electronics is a Low Profile Explosion Proof Light Fixture that provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. LED technology and compact design makes this lamp an excellent replacement upgrade option for bulky and high maintenance cost older fixtures. This explosion proof LED light has a T6 temperature rating and carries a paint spray booth, and is approved for use in United States, Canada, and Mexico markets. It is ideal for applications such as paint booths, oil rigs, offshore applications, petrochemical, manufacturing, chemical storage, water treatment centers, and food processing plants where a where flammable gases, vapors, or dusts exist or stand the potential to exist. The EPL-LP-12-LED is equipped with terminal strips for wiring.

This Class I Divisions 1 & 2, Class II Divisions 1 & 2 low profile explosion proof light fixture provides 3,380 lumens of high quality light while only drawing 26 watts. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention at the 60,000 hour mark. Light weight and a low profile make this unit an attractive alternative to larger and heavier older fixtures and requires less hardware to install.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

The EPL-LP-12-LED from Larson Electronics is an integrated low profile linear explosion proof LED light fixture with a unique design. Instead of using diffused glass, optics, or reflectors to distribute the light, Larson Electronics has positioned the boards within the fixture to provide a wide area light without sacrificing quality or light output. Two offset LED assemblies within the fixture allow this explosion proof linear lamp to provide a brilliant 100° horizontal beam spread and 140° vertical beam spread while achieving a 3,380 lumen output to maintain a small form factor. The LED assembly is protected behind a tempered borosilicate glass tube that is protected by an aluminum wire guard to prevent from accident damage to the light fixture.

Measuring only 5" in width, this fixture takes up half the surface area as a standard one foot explosion proof fixture. The surface mount fixture`s overall height with adjustable surface mount bracket is under 4.5", including the surface mount bracket itself, making the EPL-LP-12-LED one of the lowest profile explosion proof light fixtures on the market. When compared to our EPL-24-2L-T6HO fixture, the EPL-LP-12-LED fixture produces twice the light output while taking up less than half the surface area. The EPL-LP-12-LED is an ideal for applications with little space where low profile fixtures are required.

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.

This light is universal voltage capable and can be operated with 100-277V AC, 50/60Hz. We also offer a low voltage version of this fixture that operates on 12-24V DC. This explosion proof LED light fixture is IP67 rated, dust-proof, and protected against high pressure jets and temporary submersion. The cast aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronics.

Wiring: These LED light fixtures are equipped with terminal strips. Electricians bring customer supplied wire to the terminal strips on the fixture for power connection. The wiring of these terminal strip equipped units must be conducted via wiring methods laid out in NFPA 70 / NEC Code Book Article 500. This unit is a factory sealed fixture.

This LED light produces 3,380 lumens with a color temperature of 5000K and a color rendering index of 75 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries. We also offer a 3000K warm white and 4500K natural white color temperature options (longer lead times may apply for non-standard temperatures). The EPL-LP-12-LED is offered with pendant or surface mounting options.

Adjustable Surface Mount Brackets: Each L-shape bracket is machined with three holes per bracket to attach to the light fixture. The angle of the bracket is set by aligning the machined set screw holes on the mounting bracket with with index holes attached to the fixture. The bracket itself is mounted via two bolt hole at the top the bracket. There are two brackets, one on each end of the light. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be removed from the brackets by removing the set screws that hold the bracket to the mounting bracket and adjusting the fixture. The fixture can be adjusted at 15° intervals.

Suspension Mounting: Pendant mount fixtures hang from the conduit and are suspended by rigid pipe. Each fixture features a 3/4" NPT junction box on one end, and a eyelet other end of the fixture. Operators bring rigid pipe down to the threaded mounting hub. Customer provided wiring is fed down through the rigid pipe to the junction box and tied in to the fixture`s terminal strips, completing the electrical connection.

Chain Hang Mounting: Chain hang mount fixtures hang from the chains or metal rope. Two eyelets, one at each end of the fixture, allow operators to attach safety hooks to the fixture during installation. Operators bring flex conduit down to the threaded mounting hub. Customer provided

wiring is fed down through the flex conduit to the junction box and tied in to the fixture`s terminal strips, completing the electrical connection.

Suggested Applications: Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste water treatment plants, gas processing plants, offshore applications, oil tankers, mud tanks, sand mines, mining, cold weather applications.

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.

High Quality Features

1. Each unit dialectically tested.
2. Low power consumption.
3. Instant on/off operation.
4. Fixture constructed of die-cast,corrosion resistant, copper free aluminum alloy with epoxy finish.
5. No ballast box. No ballast to replace.
6. Superior color rendering compared to HPS, LPS, MH.
7. Retains 80% lumen output after 60,000 operating hours.
8. Powder coated aluminum fixture body.
9. Mounting Options Include Surface and Pendant.
10. Low profile - Light weight
11. 3,380 Lumen output from only 26 watts
12. Lighter weight, slimmer, brighter alternative to fluorescent configurations.
13. Explosion Proof / Flame Proof US, CAN Rated for us in the United States, Canada, Mexico

Superior LED Benefits

1. 60,000 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 LED 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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EPL-LP-12-LED

Product ID: 147703

Warranty: 60 Months.

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

Options:

EPL-LP-12-LED-Mount-Voltage-Color Temp
Example: EPL-LP-12-LED-SFC-1227-50K

Mount	
SURFACE	-SFC
PENDANT	-PND

Voltage	
120-277V AC	-1227
12-24V AC/DC	-1224

Color Temp	
5000K	-50K
4500K	-45K
4000K	-40K
3000K	-30K

Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**(https://www.larsonelectronics.com/images/product/CECCert/147703.PDF)
- **Catalog Page - Product Series**(https://www.larsonelectronics.com/images/product/CatalogPage/147703.PDF)
- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/147703.PDF)
- **IES (Photometric File)**(https://www.larsonelectronics.com/images/product/ies/147703.ZIP)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/147703.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/147703.PDF)
- **Photometric Polar Graph**(https://www.larsonelectronics.com/images/product/PolarGraph/147703.PDF)
- **STEP File (3D CAD Model)**(https://www.larsonelectronics.com/images/product/Step/147703.ZIP)
- **USA NEC Certificate (Commonly referred to as UL Certificate)**(https://www.larsonelectronics.com/images/product/NECCert/147703.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/147703.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/147703.JPG)
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- **Video1**(https://www.youtube.com/watch?v=Ph7OYLqOF-Q)
- **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)