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EPL-LP-2X48-LED

160 Watt Explosion Proof Low Profile LED Fixture - 21,600 Lumens - Class 1 & 2 Div 1 & 2

Product ID: 106007

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.

EPL-LP-2X48-LED Explosion Proof Low Profile LED

Lamp Type: LED
Listing: United States, Canada, Europe, Asia
Dimensions: 50"L x 12"W x 3"H
Weight: 44 lbs
Voltage: Universal 100-277V AC, 50/60Hz
Total Watts: 160W
Lumens: 21,600
Luminous Efficacy: 135 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5000K, 4500K, 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: 1.34A @ 120V, 0.67A @ 240V, 0.58A @ 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
Wiring: Terminal Strips
Wiring Hub: 3/4" NPT

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
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The Larson Electronics EPL-LP-2X48-LED Low Profile Explosion Proof light fixture 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, NEC and CEC certifications, and is approved for use in United States and Canada 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-2X48-LED is equipped with terminal strips for wiring.

This Class I Divisions 1 & 2, Class II Division 1 & 2 low profile explosion proof light fixture provides 21,600 lumens of high quality light while only drawing 160 watts. The copper free aluminum alloy body is powder coated for added durability with the bonus being 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. The light weight and low profile design combined with minimal hardware to install make this unit a preferable alternative to larger and heavier older fixtures.



Click Photo to Enlarge | Click Photo to Enlarge | Click Photo to Enlarge

The EPL-LP-2X48-LED from Larson Electronics is an integrated low profile linear explosion proof LED light fixture that is uniquely designed to provide the best of both worlds - lighting quality and compact form. Instead of using diffused glass, optics, or reflectors to distribute the light, Larson Electronics has positioned the boards with the fixture to provide a wide area light without sacrificing quality or light output. Two offset LED assemblies within each fixture allow this explosion proof linear lamp to provide a brilliant 100° horizontal beam spread and 140° vertical beam spread while achieving a 21,600 lumen output and maintaining a small form factor. Tempered borosilicate glass tubes protect the LED assemblies which are, in turn, protected by an aluminum wire guard to prevent accidental damage to the fixture.

Measuring 12" in width, this fixture takes up less overhead space than a standard four foot 2-lamp explosion proof fixture. The fixture`s overall height, including the adjustable surface mount bracket, is under 4.5", making the EPL-LP-2X48-LED one the lowest profile explosion proof light fixtures on the market. When compared to our EPL-48-4L-T6HO fixture, the EPL-LP-2X48-LED fixture produces twice the light output while maintaining a significantly lower profile, which makes it ideal for applications with limited space.

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. 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.

This LED light produces 21,600 lumens with a color temperature of 5600K 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-2X48-LED is offered with pendant or surface mounting options.

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.

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.

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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. 13,520 Lumen output from only 104 watts
12. Lighter weight, slimmer, brighter alternative to fluorescent configurations.
13. Explosion Proof / Flame Proof NEC and CEC Rated for us in the United States, Canada, Mexico

Superior LED Benefits

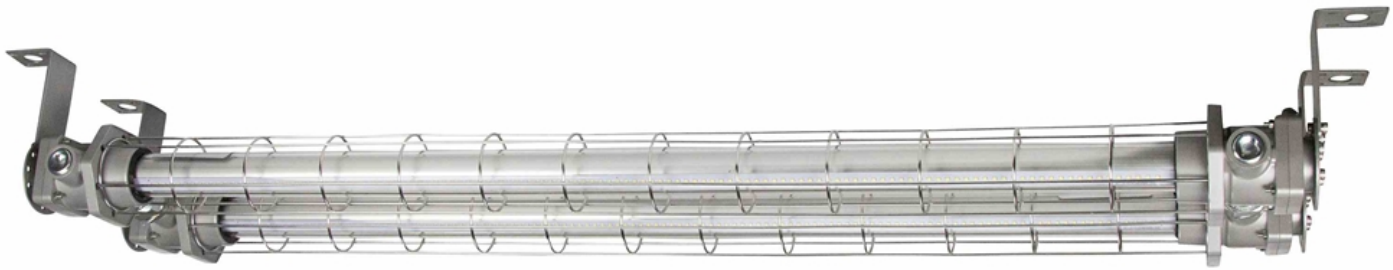
1. 60,000 hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No 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.

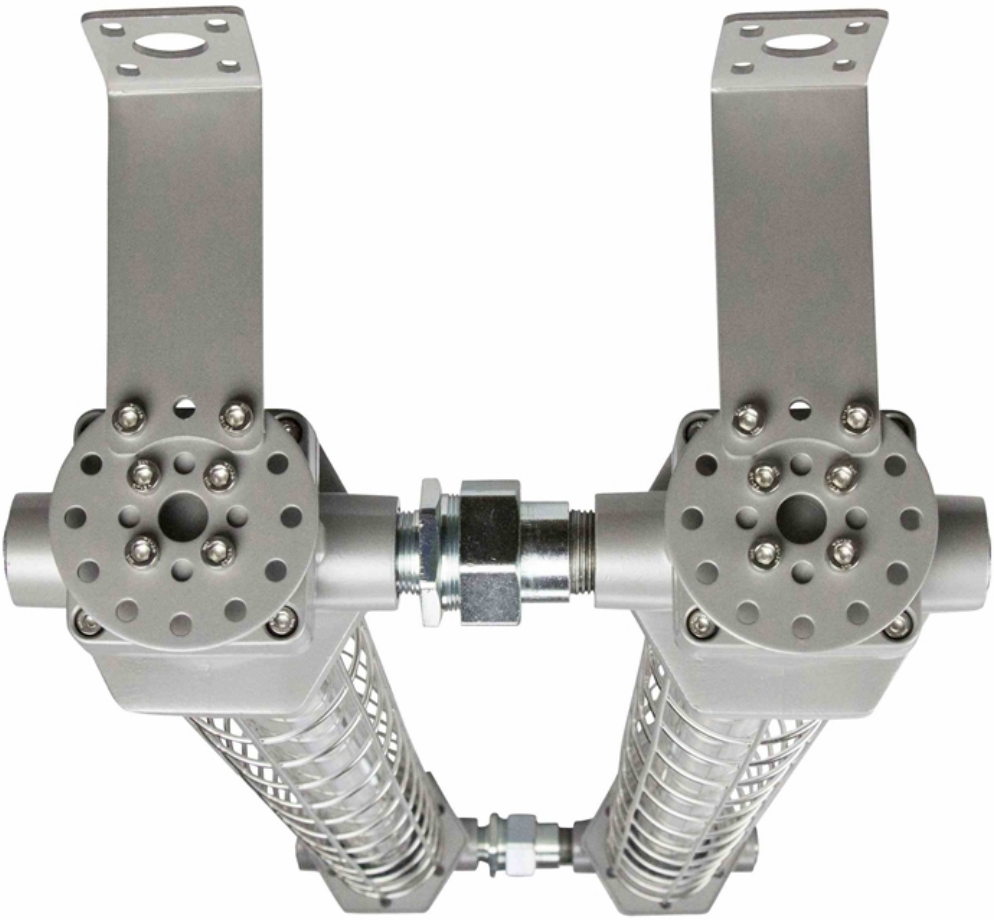
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Frequently Asked Questions (FAQ)









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EPL-LP-2X48-LED

Product ID: 106007

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-LP-2X48-LED-Color Temp-Voltage

Example: EPL-LP-2X48-LED-56K-1227

Color Temp	
5600K	-56K
5000K	-50K
4500K	-45K
4000K	-40K
3500K	-35K
3000K	-30K

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

Links (Click on the below items to view):

- **Canadian CEC Certificate (Commonly referred to as CSA Certificate)**
- **Dimensional Drawing 2D**
- **MSDS (Material Safety Data Sheet**
- **Operations Manual**
- **STEP File (3D CAD Model)**
- **USA NEC Certificate (Commonly referred to as UL Certificate)**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**