

**104W Explosion Proof Low Profile LED Fixture - 13520 Lumens - 480V - C1D1&2 - C2D1&2 -  
ATEX / IECEx  
EPL-LP-48-LED-480V**



**EPL-LP-48-LED-480V Explosion Proof Low Profile LED**

**Lamp Type:** LED  
**Listing:** United States, Canada, Europe, Asia  
**Dimensions:** 50"L x 5"W x 3"H  
**Weight:** 22 lbs  
**Voltage:** 480V AC, 50/60Hz  
**Total Watts:** 104 Watts  
**Lumens:** 13,520  
**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:** 0.22A @ 480V  
**Ambient Operating Temp Range:** -50°C to +65°C  
**Operating Temp Rating:** T5  
**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  
**Design:** Low Profile

**Ratings/Approvals**

Class I, Divisions 1 & 2, Groups C and D; T5  
Class II, Divisions 1 & 2 Groups E, F and G; T5  
Class III, Divisions 1 & 2; T5  
ATEX 2G Ex d IIB+H2 T5 Gb  
ATEX 1D Ex tb IIIC T5 Da  
IECEX Ex d IIB+H2 T5 Gb  
IECEX Ex tb IIIC T5 Da  
NRTL Certified to UL 844 Ed. 13  
NRTL Certified to UL 1598  
NRTL Certified to UL 8750  
Certified to C22.2 No. 137 Rev 2014  
Certified to C22.2 No. 250.0  
Certified to C22.2 No. 250.13  
Certified to EN 60079-0:2012  
Certified to EN 60079-1:2007  
Certified to EN 60079-31:2009  
Certified to IEC 80079-34:2011  
Paint Spray Booth Approved  
Factory Sealed Light Fixture

**Special Orders- Requirements**

Contact us for special requirements  
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**The EPL-LP-48-LED-480V 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 T5 temperature rating and carries a paint spray booth, ATEX and IECEx certifications, and is approved for use in United States, Canada, Europe, and Asia 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-48-LED-480V 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 13,520 lumens of high quality light while only drawing 104 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.

**Voltage:** This light is universal voltage capable and can be operated with 480V AC without modifications. 480V 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 480V, 50/60Hz current 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.



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The EPL-LP-48-LED-480V 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 13,520 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 four foot 2-lamp 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-48-LED-480V one of the lowest profile explosion proof light fixtures on the market. When compared to our EPL-48-2L-T5HO fixture, the EPL-LP-48-LED-480V fixture produces twice the light output while taking up less than half the surface area. The EPL-LP-48-LED-480V 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 can be operated with 480V 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 13,520 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-48-LED-480V 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](mailto: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 US, CAN, ATEX, IECEx

### 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.



Rated for use in the United States, Canada, Mexico, England, Middle East, and Asia.

- 13. Significantly cooler operation.
  - 14. Less frequent outages, higher output improves workplace safety.
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**Options:**

**EPL-LP-48-LED-480V-Mount-Color Temp**

**Example: EPL-LP-48-LED-480V-SFC-50K**

Mount	
SURFACE	-SFC
PENDANT	-PND

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

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