# Explosion Proof LED Lights for Paint Spray Booth - Class 1 & 2 Division 1 - 4 Foot 4 Lamp - T6 Temp

Part #: EPL-48-4L-LED

**Made in the USA**

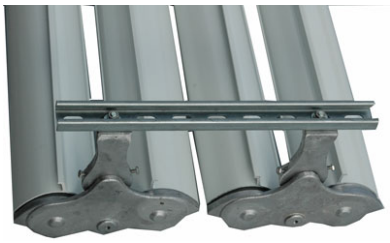
**The Larson Electronics EPL-48-4L-LED Explosion Proof LED Light Fixture is United States and Canada approved Class 1 Division 1 & 2 and Class 2 Division 1 and 2 for areas where flammable chemical/petrochemical vapors, gases and/or pulverized dust and fibers exist or have the potential to exist. This explosion proof LED light has a T6 temperature rating and carries a paint spray booth light certification, making it ideal for applications such as paint booths, oil rigs, offshore applications, petrochemical, manufacturing, chemical storage, water treatment centers, and food processing plants.**

******PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO THIS HAZARDOUS LOCATION LIGHT FIXTURE******

This 4 foot long 4 lamp LED fixture is ideal for operators seeking a top quality explosion proof light that will reduce operating costs, improve lighting quality and reduce downtime incurred from frequent servicing intervals. The EPL-48-4L-LED is equipped with Larson Electronics' specially designed LED T-series bulbs which produce 14,000 lumens, resulting in 30% more foot candles of illumination at 8 feet as compared to standard T8 lamps when measured with an Extech light meter. Our LED-T series bulbs are visibly brighter than standard T8's and have consistently surprised many of our customers with their unexpectedly high light output levels. We have replaced four 8 foot dual lamp T8 fixtures in our own facility with our LED T series lamps and produced more illumination in the work area with only one 4 lamp 4 foot long LED fixture. We now offer our second generation LED tube lamps with this fixture which have increased this hazardous location light's performance. This four lamp explosion proof LED linear fixture is lighter in weight, has a slimmer profile, and produces more light than traditional explosion proof fluorescent fixtures. The four foot long LED tube design bulbs included with this unit are rated at 50,000 hours of service life, which is over twice as long as standard T8 bulbs.

This fixture carries a T6 temperature rating and is approved for Class I Division 1, Groups C and D, Class I, Division 2, Group A, B, C and D, and Class II, Division 1 and 2, Groups E, F and G environments where flammable or combustible gases, vapors, dusts, fibers, and flying exist or stand the potential to exist. This LED linear fixture is approved for use in confined spaces. Click here to read the NEC description for explosion proof and hazardous locations.

Click Photo to Enlarge



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We have eliminated the ballast box normally associated with explosion proof fluorescent fixtures which reduces overall weight and overall complexity of installation. There is no ballast in this unit and the included LEDT8-28W-V1 LED lamps have a 50,000+ hour service life, both of which result in extreme efficiency and greatly reduced maintenance costs. These fluorescent LED lamps have internal drivers, eliminating external power components. The solid state design of the LED lamps give this fixture superior resistance to damage from vibration, extremes in temperature and a lamp service life over twice that of standard fluorescent bulbs. This second generation lamp is offered in 5600K cool white, 4500K natural white, and 3000K warm white. Our standard unit ships with 5600K unless different color temperature is specified.

Unlike the glass tube design of traditional fluorescent lamps, these LED T-Style lamps have no filaments or fragile housings to break during operation. Instead of using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current applied and emitting light. The LED assembly is mounted to the "tube" constructed from extruded aluminum, with a polycarbonate lens protecting the LEDs. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than fluorescent lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional fluorescent lighting.

The 28 watt LED lamps produce 30% more illumination than standard T8 bulbs while offering lower amp draw and increased reliability. Each lamp produces 3,500 lumens at 125 lumens per watt, for a combined 14,000 total lumen light output. An EPL-48-4L-T8 explosion proof fluorescent light, with a combined total of 128 watts, draws 1.07 amps at 120 volts AC. This LED version of the same light, with a total of 112 watts, draws only 0.93 amps at 120 volts AC. The EPL-48-4L-LED is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC 50/60hz without any modifications. We also make a 12/24V AC/DC version for low voltage applications for AC or DC power.

**Energy Consumption Comparison**

| | T5HO | T8 | LED |
|---|---|---|---|
| Wattage | 216 watts | 128 watts | 112 watts |
| Amp Draw @ 120V AC | 1.80 amps | 1.07 amps | 0.93 amps |
| Amp Draw @ 220V AC | 0.98 amps | 0.59 amps | 0.51 amps |
| Amp Draw @ 240V AC | 0.90 amps | 0.54 amps | 0.47 amps |
| Amp Draw @ 277V AC | 0.78 amps | 0.47 amps | 0.40 amps |
| Amp Draw @ 12V DC | 18 amps | 10.67 amps | 9.33 amps |
| Amp Draw @ 24V DC | 9 amps | 5.34 amps | 4.67 amps |
| Lamp Life Expectancy | 20,000 hours | 24,000 hours | 50,000 hours |
| Operation cost per year (12hs/day @ 12c/kWh) | $113.53 | $67.28 | $58.86 |

Our EPL-48-4L-LED LED light fixture is U.S. and Canada approved for use in paint spray booths. Please note, according to the NEC, using threaded rigid pipe does not require additional seal offs with this fixture. An EYM and seal off is necessary for flex conduit or other non-rigid pipe implementations.

**Mounting Options:**Unless otherwise specified, our standard, most popular configuration is the bracket end mounting shown enlarged below. We also offer a pendant mount for those needing to suspend the fixture away from the ceiling surface (i.e. suspend from pipe or conduit). Additional mounting configurations can be customized to meet the requirements on the application. Please contact us for special mounting configurations.

**Mounting:**Standard end mounting via Unistrut. The Unistrut is attached to our standard L-bracket mounts. These L-bracket mounts can be adjusted to create angle mounts. As illustrated in the photos above, the series of mounting holes at the top of the bracket enable this explosion proof LED light to be attached to any wall, ceiling or floor surface. A simple through bolt can be used to secure the light to the surface. A single junction box at one end of the light is provided for the electrical connection.

**Suspension Mounting:**Pendant mount fixtures hang from the ceiling and are suspended by rigid pipe. Each fixture features a 1/2” NPT junction box on one end, and a 1/2” NPT bracket on the other end of the fixture. Operators bring rigid pipe down to the threaded mounting hubs. Wiring is fed down through the rigid pipe to the junction box and tied in to the fixture’s lead wires, completing the electrical connection. The threaded mounting bracket provides support for the opposite end of the fixture.

**Suggested Applications:**Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants,

chemical manufacturing, waste treatment plants, gas processing plants.

**Made in USA Quality**

1. Each unit dialectrically tested.
2. Fixture arrives assembled and lamped to reduce installation time and cost.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy
4. No ballast box. No ballast to replace. .
5. Heavy gauge extruded aluminum reflectors with high gloss reflective finish. Resists dents and corrosion.
6. A wrench is used to unscrew the end caps for re-lamping the fixture, while some competitive models require the "tap and knock off" method to loosen the end cap.
7. Explosion proof, impact and heat resistant Pyrex tubes provide lamp protection.
8. Spring loaded sockets on both ends hold lamps firmly for maximum shock and vibration protection.
9. Lighter weight, slimmer, brighter alternative to fluorescent configurations

**Superior LED Benefits**

1. 50,000 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 LEED 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.

**Specifications / Additional Information**

**EPL-48-4L-LED Explosion Proof LED Fixture**

**Listing:** United States - Canada

**Dimensions:** W-22.50" x L-52" x H-8.5 "

**Weight:** 95 Lbs

**Voltage:** Universal 120-277VAC 50/60 Hz or 11-25V AC/DC

**Total Watts:** 112 watts (28 Watts per Lamp)

**Total Lumens:** 14,000 (3,500 per Lamp)

**LED Lamp Life Expectancy:** 50,000+ Hours

**Luminous Efficacy:** 125 Lumens per Watt

**Color Temp:** 5600K, 4500K, 3000K

**Color Rendering Index:** >80

**Beam Angle:** 150°

**Power Efficiency:** 90%

**Power Factor:** >0.95

**Ambient Operating Temp Range:**-30° C to +85°C

**Operating Temp Rating:** T6 Rated

**Minimum Operating Temp:** -30°C

**Maximum Case Temp:** +90°C

**Housing Material:** Cast Aluminum End Caps, Aluminum Reflectors - Copper Free

**Lens Material:** Hardened Borosilicate Glass Tubes

**Gasket Material:** Buna Rubber O-Rings

**Mounting:** Surface Standard - Pendant Optional

**Wiring Hub:** 1/2" NPT

**Warranty:** 5 Years*

**U.L Approval:** U.S Certificate Canada Certificate

*5 year warranty replacement on this LED light (or LED bulbs for light fixtures with removable LED bulbs). After 30 days, the customer ships the failed LED light and/or LED bulb to Larson Electronics at their expense. If the failure is a manufacturer defect, we will ship a new replacement to the customer. If failure occurs within 30 days of receipt, Larson Electronics will provide a return label via email to the customer. When the failed light is returned, Larson Electronics will ship a new replacement. Please click here to see our 5 Year Warranty pamphlet.

Scroll Down to Purchase-

Part #: EPL-48-4L-LED (47256)

**Ratings/Approvals**

Class 1 Division 1, Groups C and D T6

Class 1 Division 2, Group A,B,C,D

Class 2, Division 1 & 2, Groups E,F,G

UL 595 Marine Type (Saltwater)

UL 844

UL 1598 Marine Type

Certified Canadian Standards

Listed for Paint Spray Booths

California Title 24 Compliant

IP67 Rated - Waterproof

T6 Temperature Rating

NEMA 4X

LEL Listed LED Lamps

Approved for Confined Spares

Silicone Free

Factory Sealed Fixture

Made in the USA

**Special Orders- Requirements**

Contact us for special requirements

**Toll Free:** 1-800-369-6671

**Intl:** 1-903-498-3363

**E-mail:** sales@larsonelectronics.com

Links (Click on the below items to view):

- SpecSheet French
- SpecSheet Arabic
- SpecSheet Spanish
- Dimensional Drawing
- Manual
- SpectrumChart
- Hi Res Image 1 - Explosion Proof LED Lights for Paint Spray Booth

- Hi REs Image 2 - Explosion Proof LED Lights for Paint Spray Booth
- Hi Res Image 3 - Explosion Proof LED Lights for Paint Spray Booth
- Hi-Res Image 4 - Explosion Proof LED Lights for Paint Spray Booth
- Hi-Res Image 5 - Explosion Proof LED Lights for Paint Spray Booth
- Hi-Res Image 6 - Explosion Proof LED Lights for Paint Spray Booth
- Hi-Res Image 7 - Explosion Proof LED Lights for Paint Spray Booth