

## Integrated Explosion Proof LED Paint Spray Booth Light - 16,000 Lumens - 4' 4-Lamp - Class 1 Div 1

### EPL-48-4L-ITG-LED



#### Specifications / Additional Information

##### EPL-48-4L-ITG-LED Explosion Proof LED Fixture

**NRTL Listed for United States & Canada**

**Dimensions:** 52"-L x 22.5"-W x 8.5"-H

**Weight:** 130 Lbs

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

**Total Watts:** 160 watts

**Total Lumens:** 16,000

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

**Luminous Efficiency:** 100 Lumens per Watt

**Color Temp:** 5000K

**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:** Unistruc Surface Standard - Pendant Optional

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

**Warranty:** 5 Years\*

##### 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

NRTL Certified to UL 595 Marine Type (Saltwater)

NRTL Certified to UL 844

NRTL Certified to 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 Spaces

Silicone Free

Factory Sealed Fixture

Individually Dimmable Lamps

Made in the USA

##### Special Orders- Requirements

Contact us for special requirements

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#### **Made in the USA**

**The Larson Electronics EPL-48-4L-ITG-LED Explosion Proof Integrated 4' 4-Lamp LED Light Fixture is NRTL Listed for United States and Canada and rated Class 1 Division 1 & 2 and Class 2 Division 1 and 2 for areas where flammable chemical/petrochemical vapors exist or have the potential to exist. This integrated 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.**

This four foot, four lamp integrated LED fixture is ideal for operators seeking a

top quality explosion proof LED light that will reduce operating costs, improve lighting quality and reduce downtime incurred from frequent servicing intervals. The EPL-48-4L-ITG-LED is equipped with a specially designed integrated LED assembly which produce 16,000 lumens, resulting in 50% more foot candles of illumination at 8 feet as compared to standard T5HO lamps when measured with an Extech light meter. Our integrated series are visibly brighter than standard T5HO`s and have consistently surprised many of our customers with their unexpectedly high light output levels.

We now offer our first generation integrated LED tube assembly within this fixture which have increased this hazardous location light's performance. This four lamp explosion proof LED linear fixture is lighter in weight 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 T5HO bulbs. These lamps are individually dimmable via Mark 7 0-10V style dimmer switches for maximum control over illumination levels.

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](#)



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)

Unlike the glass tube design of traditional fluorescent lamps, these integrated LED fixtures 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 quad 40 watt LED assemblies produce 50% more illumination than standard T5HO bulbs while offering lower amp draw and increased reliability. Each lamp produces 4,000 lumens at 100 lumens per watt, for a combined 16,000 total lumen light output. An EPL-48-4L-T5HO explosion proof fluorescent light, with a combined total of 216 watts, draws 1.8 amps at 120 volts AC. This LED version of the same light, with a total of 160 watts, draws only 1.34 amps at 120 volts AC. The EPL-48-4L-ITG-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	160 watts
Amp Draw @ 120V AC	1.8 amps	1.07 amps	1.34 amps
Amp Draw @ 220V AC	0.98 amps	0.58 amps	0.73 amps
Amp Draw @ 240V AC	0.9 amps	0.53 amps	0.73 amps
Amp Draw @ 277V AC	0.78 amps	0.47 amps	0.58 amps
Amp Draw @ 12V DC	18 amps	10.67 amps	13.34 amps
Amp Draw @ 24V DC	9 amps	5.34 amps	6.67 amps
Lamp Life Expectancy	20,000 hours	24,000 hours	50,000 hours
Operation cost per year (12hs/day @ 12c/kWh)	\$133.53	\$67.28	\$84.10

Our EPL-48-4L-ITG-LED LED light fixture is NRTL Listed for United States and Canada and 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.

**Surface 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 dialectically tested.
2. Fixture arrives assembled and lamped to reduce installation time and cost. Adjustable mounting brackets enable the operator to choose any mounting angle for the fixture.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy
4. No ballast box. No ballast to replace. We simply run the black wire to one end of the bulb and white wire to the other.
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.

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**Options:**

**EPL-48-4L-ITG-LED-Mount-Voltage**

**Example: EPL-48-4L-ITG-LED-SFC-SFC**

Mount	
SURFACE	-SFC
PENDANT	-PND

Voltage	
120-277V AC	-SFC
11-25V AC/DC	-PND

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