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**EPL-48-4L-LED-D-V2-100C**

# 112W Explosion Proof LED Light for Paint Spray Booth - C1&2D1 - 4' 4 Lamp - T6 Temp - 0-10V Dimming - 100' 12/5 SOOW Cord

**Product ID: 275000**

**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-48-4L-LED-D-V2-100C Explosion Proof Dimmable LED Fixture**

**Dimensions:** 22.50"-W x 52.00"-L x 8.50"-H

**Weight:** 95 lb
**Voltage:** Universal 120-277 V AC, 50/60 Hz
**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, 5000K, 4500K, 4000K, 3500K, 3000K, 2700K, or 6000K
**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
**Wiring:** 100' 12/5 SOOW Cord w/ Blunt Cut End

**Ratings/Approvals**

Class I Division 1, Groups C and D T6

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

Class II, Divisions 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
Paint Spray Booth Approved
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

0-10V Dimmable
Made in the USA

**Special Orders - Special Requirements**

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

**Fax:** 1-903-498-3364

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**Made in the USA**

**The EPL-48-4L-LED-D-V2-100C from Larson Electronics is an Explosion Proof Dimmable LED Light Fixture that is NRTL Listed for United States and Canada and rated Class I Divisions 1 & 2 and Class II Divisions 1 & 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. The EPL-48-4L-LED-D-V2-100C is equipped with 100` of 12/5 SOOW cord that brings power to both the light and the dimming controls.**

******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 dimmable explosion proof light that will reduce operating costs, improve lighting quality and reduce downtime incurred from frequent servicing intervals. The EPL-48-4L-LED-D-V2-100C 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.

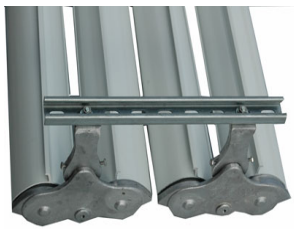
This LED light fixture features 0-10V dimming capabilities. This gives operators the ability to manually adjust the brightness of the LED lamp quickly and easily. The 0-10V dimming allows for adjustments to fit the brightness needs of any lighting situation. A 0-10V dimmable light works through the use of a DC control signal that ranges between zero and ten volts. The basic idea is that at 10 volts of input the light is at its brightest level with 0 volts being the lowest possible dimness setting. The smooth, continuous and flicker-free dimming of a 0-10V dimmable LED light is ideal for a wide range of different lighting applications.

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 0-10V dimmable 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, Divisions 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

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.

**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.

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-D-V2-100C is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC 50/60hz without any modifications. The 0-10V dimming capabilities of the EPL-48-4L-LED-D-V2-100C offers energy savings and easy brightness control.

**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-D-V2-100C 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.

**Wiring:** The EPL-48-4L-LED-D-V2-100C is outfitted with 100` of 12/5 SOOW cord

terminated in a blunt cut end. This cord includes power to the light and the dimming controls.

**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, chemical manufacturing, waste treatment plants, gas processing plants.

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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# Frequently Asked Questions (FAQ)

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**EPL-48-4L-LED-D-V2-100C**

**Product ID: 275000**

**Harmonized System (HS) Code:** 9405.41.84.10

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**EPL-48-4L-LED-D-V2-100C-Color Temp-Mount**

**Example: EPL-48-4L-LED-D-V2-100C-56K-SFC**

| Color Temp | |
|---|---|
| 5600K | -56K |
| 5000K | -50K |
| 4500K | -45K |
| 4000K | -40K |
| 3500K | -35K |
| 3000K | -30K |
| 2700K | -27K |
| 6000K | -60K |

| Mount | |
|---|---|
| SURFACE | -SFC |
| PENDANT | -PND |

Links (Click on the below items to view):

- Dimensional Drawing 2D
- IES (Photometric File)
- MSDS (Material Safety Data Sheet
- Operations Manual
- STEP File (3D CAD Model)
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map