Larson Electronics LLC
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EPL-48-2L-220V

Surface Mount Explosion Proof Fluorescent Light - Paint Spray Booth - 220Volts, 50/60Hz

Product ID: 47493

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-48-2L-220V Explosion Proof
Dimensions: W-11.25" L-52" H-8.5 "
Weight: 65 Lbs

Total Watts: 108watts*

Voltage: 220V 50/60 Hz (Universal 120V-277V)
Total Lumens: STD-T5-HO Bulbs 10,000
Lamp Life Expectancy: STD-T5-HO Bulbs 20,000 Hours
Efficiency: STD-T5-HO Bulbs: 92 Lumens per Watt
Ambient Operating Temp Range: -20 C to 70 C*
Operating Temp Rating: T6 Rated
Minimum Operating Temp: -30 C
Maximum Case Temp: 90 C
Beam Angle: N/A
Color Temp: varies with bulb choice
Mounting: Surface Standard - Pendant Optional
Wiring Hub: 1/2 inch threaded

*Wattage totals are lamps only and may vary with different lamps.
***Substitution of included standard bulbs for higher output lamps may affect paint spray booth approval.**
***Temperatures above 65 degrees C will diminish ballast life from 5 years to 3 years)**

Ratings
Class 1 Division 1, Groups C and D
Class 1 Division 2, Group A,B,C,D
NRTL Certified to UL 595 Outdoor Marine Type (Saltwater)
NRTL Certified to UL 844, 924
NRTL Certified to UL 1598 Marine Type
NRTL Listed for United States & Canada
Class II Division 1 and 2, Groups E,F,G
Certified to Canadian Standards
Listed for Paint Spray Booths*
California Title 24 Compliant

Special Orders - Special Requirements
Contact us for special requirements
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Made in the USA

The Larson Electronics EPL-48-2L-220V Explosion Proof Fluorescent Light Fixture is NRTL Listed for United States and Canada Class 1 Division 1 and Class 1 Division 2 for

hazardous locations where flammable chemical/petrochemical vapors exist or have the potential to exist. The unit carries a T6 temperature rating, it is also approved for Paint Spray Booths.

Click here to see the LED version of this light

The EPL-48-2L-220V fixture is a 4 foot long, 2 lamp, Class 1 Division 1 and Class 2 Division 1&2 explosion proof fluorescent light which is also approved for use in paint spray booth applications. This T6 temperature rated fixture comes standard with two fluorescent lamps. Lamp choices include T5HO, T12HO, and T8. The lamps are protected by heat and impact resistant Pyrex tubes and the fixture is constructed of copper free aluminum alloy. The lamp reflectors are corrosion resistant heavy gauge aluminum and coated with a high gloss reflective finish.This fixture is multi-voltage capable and is available with a variety of lamp options. The EPL-48-2L-220V provides operators in hazardous locations with a reliable and affordable lighting solution that provides the best explosion proof protection available without sacrificing light quality or fixture durability.



SURFACE MOUNT (STANDARD)

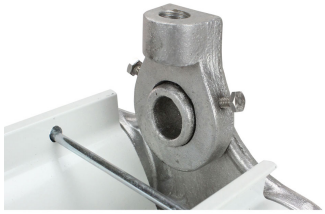
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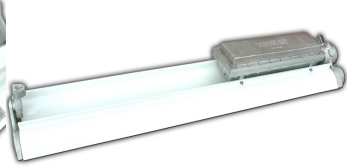


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PENDANT MOUNT (OPTIONAL)





We offer a choice of bulbs with all of our explosion proof fluorescent fixtures. However, we standardize on the T-5HO bulbs mostly for longevity and high output. However, many of our customers, including Naval bases, shipyards, oil rigs and petrochemical processing plants operate in very cold conditions, and T-12HO bulbs operate well in those environments. Larson Electronics offers a T12VHO lamp option, 110 watt Very High Output lamps make this fixture an ideal replacement for 400 watt metal halide surface mount fixtures in hazardous location areas requiring Class 1 Division 1 rated lights. *However, the 110 watt T12VHO lamp configuration is not appropriate for paint spray booth applications.

Please click here for the EPL-48-2L-T12VHO model.

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.

Adjustable Surface Mount Brackets: Each bracket is cinched to the bracket mounting peg on each side of the light. The angle of the bracket is set by tightening two cap screws on either side of the bracket. The cap screws act as a set screw. The bracket itself is mounted via a single 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 loosening the cap screws that hold the bracket to the mounting peg.

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 adjustable L-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 adjustable L-shape mounting bracket provides support for the opposite end of the fixture.

Energy Consumption Comparison

	T5HO	T8	LED
Wattage	108 watts	64 watts	48 watts
Amp Draw @ 120V AC	0.9 amps	0.54 amps	0.4 amps
Amp Draw @ 277V AC	0.39 amps	0.24 amps	0.18 amps
Amp Draw @ 12V DC	9 amps	5.34 amps	4 amps
Amp Draw @ 24V DC	4.5 amps	2.67 amps	2 amps
Lamp Life Expectancy	20,000 hours	24,000 hours	50,000 hours
Color Temperature	5000K / 4100K	4100K	5300K
Operation cost per year (8hs/day @ 11c/kWh)	$34.69	$20.56	$15.42

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, where other models may only offer one or three choices.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.
4. Over-sized, finned ballast housing for 800 mA fixtures provides more heat dissipation and extends ballast life. Larger ballast box accommodates High Output lamp ballasts. Ballast housing easily accessible and externally mounted. Top and bottom covers secured with nuts and bolts, instead of threaded through holes, which can be damaged with dirt.
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 relamping the fixture, while other 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.

Lamp Options

F54-T5/850/HO – 54 watt, 5000 lumens per bulb, 20,000 hours life, 5000 Kelvin color, CRI 85 RHA-UNV-254-LT5 Ballast is THD<10% and HPF .98 (Suffix –50KT5)
F54-T5/841/HO - 50 watt, 4450 lumens per bulb, 20,000 hour life, 4100 Kelvin color, CRI 85 (Suffix -41KT5)
F48-T12/HO – 60 watt, 4050 lumens per bulb, 12,000 hours life, 4100 Kelvin color (Suffix –T12HO)
F32-T8/841 – 32 watt, 2950 lumens per bulb, 24,000 hours life, 4100 Kelvin color (Suffix –T8)
F48-T8/HO - 48 watt, 4000 lumens per bulb, 18,000 hours life, 4100 Kelvin color (Suffix -T8HO)
T12HO with magnetic ballast for high heat configurations ("hot box" explosion proof light applications) - 60 watt, 4050 lumens per bulbs - This bulb, ballast and wiring configuration is designed for applications to 165 degrees C.

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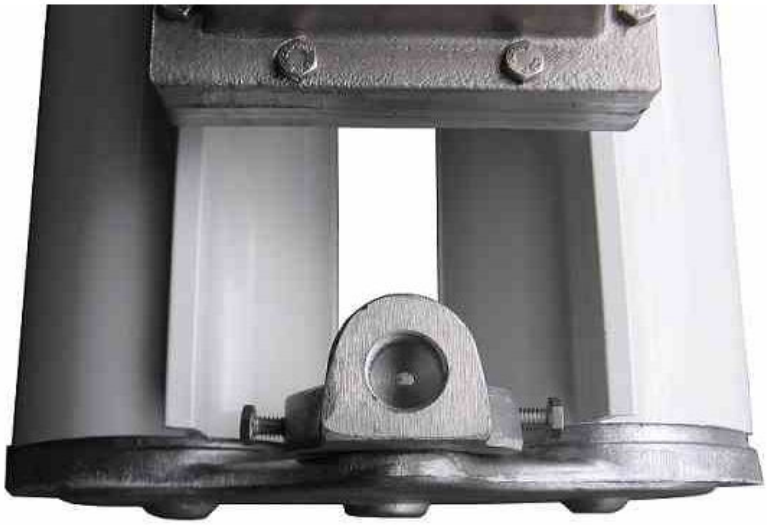
Frequently Asked Questions (FAQ)





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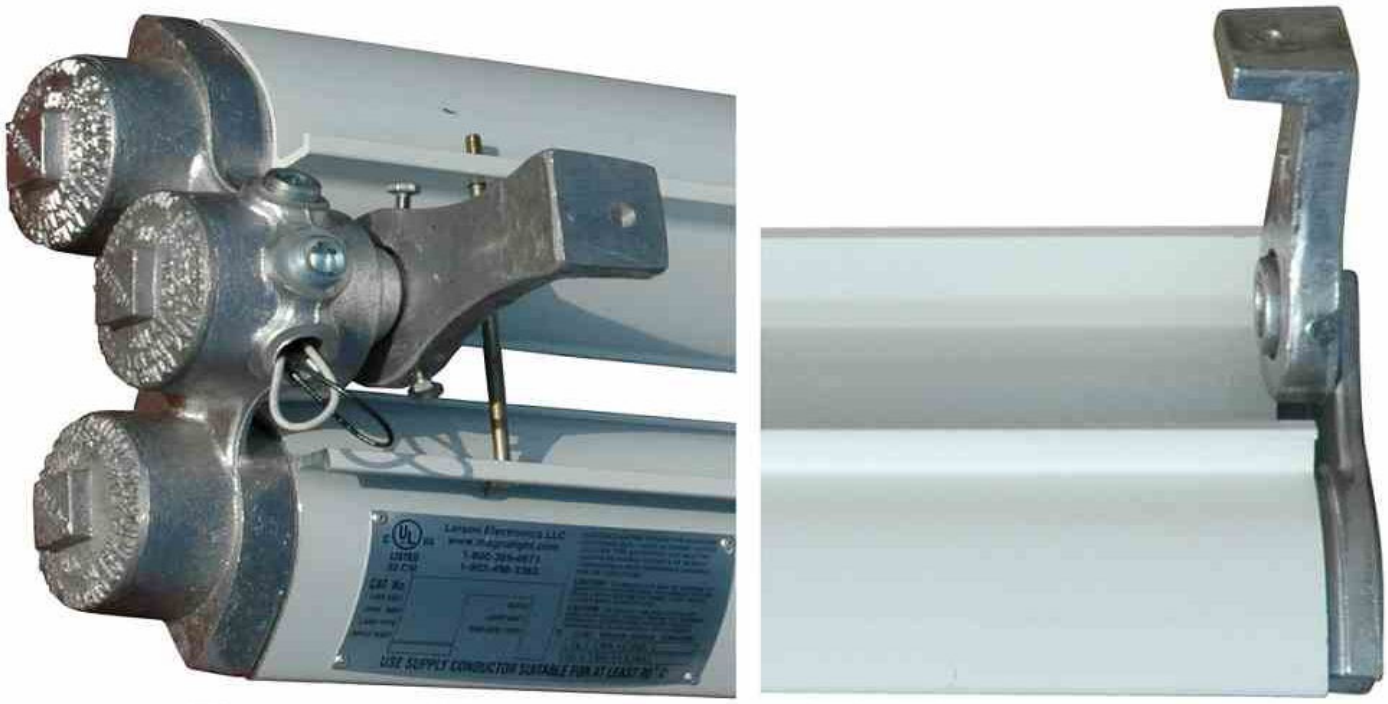




Pendant Mount

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Surface Mount

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EPL-48-2L-220V

Product ID: 47493

Export Control Classification Number (ECCN): EAR99

Options:

EPL-48-2L-220V-Bulb Type-Mount

Example: EPL-48-2L-220V-T12HO-SFC

Bulb Type	
60W-T12HO	-T12HO
32W-T8	-T8
54W-T5HO	-T5
60W-T12DLHO	-T12DL

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**
- **SpecSheetArabic**
- **SpecSheetFrench**
- **SpecSheetSpanish**
- **STEP File (3D CAD Model)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**