

EPL-48-2L-LV

12 / 24 Volt Explosion Proof Fluorescent Light - Class 1 Div 1 & Class 2 Div 1 Ratings

Product ID: 45350

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: EPL-48-2L-LV

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-LV Explosion Proof

Dimensions: W-11.25" L-52" H-8.5 "

Weight: 65 Lbs

Total Watts: 64 watts

Voltage: 12V - 24V

Total Lumens: STD-F32T8-841 Bulbs 5,900

Lamp Life Expectancy: STD-F32T8-841 Bulbs 24,000 Hours

Efficiency: STD-F32T8-841 Bulbs 92 Lumens per Watt

Ambient Operating Temp Range: -30 C to 70 C

Beam Angle: N/A

Color Temp: 4100K- F32T8-841 Bulbs

Mounting: Bracket Standard - Pendant Optional

Wiring Hub: 1/2 inch threaded

Maximum Case Temp: 90 C

Operating Temp Rating: T6 Rated

Minimum Operating Temp: -30 C

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- 2, Groups E,F,G

Certified to Canadian Standards

Listed for Paint Spray Booths*

California Title 24 Compliant

[View a Photometric Graph of the EPL-48-2L Bulb Types](#)

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

*Substitution of included standard bulbs for higher output lamps may affect paint spray booth

approval.

*Wattage totals are lamps only and may vary with different lamps.

Made in the USA

The Larson Electronics EPL-48-2L-LV 12V/24V Explosion Proof Fluorescent Light Fixture is NRTL Listed for United States and Canada Class 1 Division 1, Class 1 Division 2 and ideal for hazardous locations where flammable chemical/petrochemical vapors exist or have the potential to exist.

[Click here to see the LED version of this light](#)

The EPL-48-2L-LV fixture is a 4 foot long, 2 lamp, Class 1 Division 1 and Class 2 Division 1 & 2 explosion proof fluorescent light, rated IP67 which is also approved for use in paint spray booth applications and a good choice for use in applications requiring a low voltage source of illumination. This T6 temperature rated fixture comes standard with two F32T8-841 fluorescent lamps which produce a combined 5,900 lumens of light. 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-LV provides operators in hazardous locations with a reliable and affordable low voltage lighting solution that provides the best explosion proof protection available without sacrificing light quality or fixture durability.



SURFACE MOUNT (STANDARD)

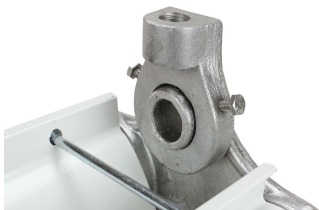
[Click Image to Enlarge](#)



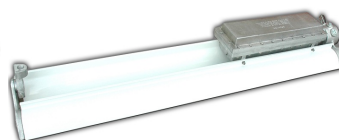
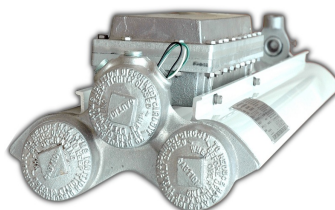
[Click Image to Enlarge](#)



[Click Image to Enlarge](#)



PENDANT MOUNT (OPTIONAL)



NOTE ON LAMPS: All hazardous location lights are shipped with bulbs. This fixture comes equipped with F32-T8/841 32 Watt lamps producing 2950 lumens per bulb, 24,000 hours of service life and a 4100 Kelvin color. The EPL-48-2L-LV has an electronic ballast and only works with 12 or 24 volt lamps. Please specify your desired voltage option from the drop down menu below when ordering.

Energy Consumption Comparison

	<u>T5HO</u>	<u>T8</u>	<u>LED</u>
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

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 Mount (Standard)



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)



[Click Photo to Enlarge](#)

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.



Pendant Mount (Optional)



[Click Photo to Enlarge](#)



3 Conduit Positions



[Click Photo to Enlarge](#)

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.

Made in USA Quality

Lamp Options

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.
8. Spring loaded sockets on both ends hold lamps firmly for

F32T8-841 – 32 watt, 2950 lumens per bulb, 24,000 hours life, 4100 Kelvin color (Suffix –T8)

maximum shock and vibration protection.



Frequently Asked Questions (FAQ)

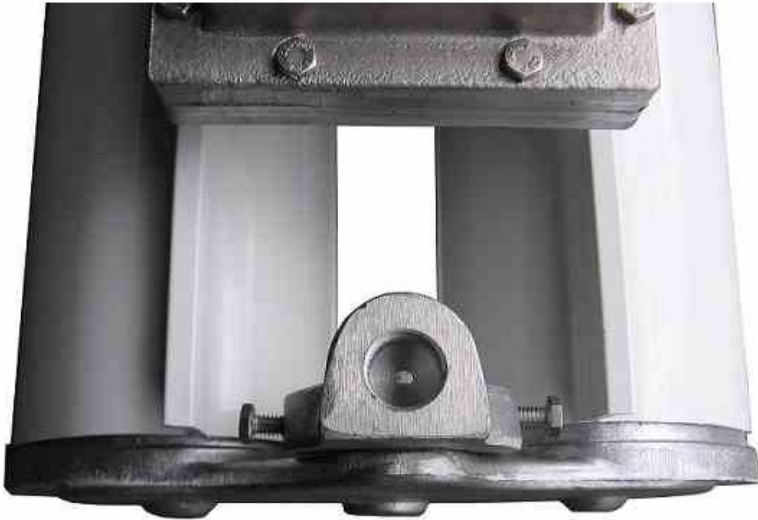
There are no Faqs



Image: EPL-48-2L-LV



Image: EPL-48-2L-LV



Pendant Mount

Image: EPL-48-2L-LV Pendant mount of the EPL-48-2L



Surface Mount

Image: EPL-48-2L-LV Surface mount of the EPL-48-2L

EPL-48-2L-LV

Product ID: 45350

Export Control Classification Number (ECCN): EAR99

Options:

EPL-48-2L-LV-Voltage

Example: EPL-48-2L-LV-12V

Voltage	
-12 VOLTS	-12V
24 VOLTS	-24V

Links (Click on the below items to view):

- **Dimensional Drawing 2D** (<https://www.larsonelectronics.com/images/product/DimensionalDrawing/45350.PDF>)
- **IES (Photometric File)** (<https://www.larsonelectronics.com/images/product/ies/45350.ZIP>)
- **MSDS (Material Safety Data Sheet)** (<https://www.larsonelectronics.com/images/product/Msds/45350.PDF>)
- **Operations Manual** (<https://www.larsonelectronics.com/images/product/Manual/45350.PDF>)
- **Solidworks EASM File** (<https://www.larsonelectronics.com/images/product/Easm/45350.ZIP>)
- **SpecSheetArabic** (<https://www.larsonelectronics.com/images/product/SpecSheetArabic/45350.PDF>)
- **SpecSheetFrench** (<https://www.larsonelectronics.com/images/product/SpecSheetFrench/45350.PDF>)
- **SpecSheetSpanish** (<https://www.larsonelectronics.com/images/product/SpecSheetSpanish/45350.PDF>)
- **STEP File (3D CAD Model)** (<https://www.larsonelectronics.com/images/product/Step/45350.ZIP>)
- **HigResPic1** (<https://www.larsonelectronics.com/images/product/HigResPic1/45350.JPG>)
- **HigResPic2** (<https://www.larsonelectronics.com/images/product/HigResPic2/45350.JPG>)
- **HigResPic3** (<https://www.larsonelectronics.com/images/product/HigResPic3/45350.JPG>)
- **HigResPic4** (<https://www.larsonelectronics.com/images/product/HigResPic4/45350.JPG>)
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- **HigResPic6** (<https://www.larsonelectronics.com/images/product/HigResPic6/45350.JPG>)
- **HigResPic7** (<https://www.larsonelectronics.com/images/product/HigResPic7/45350.JPG>)
- **HigResPic8** (<https://www.larsonelectronics.com/images/product/HigResPic8/45350.JPG>)
- **HigResPic9** (<https://www.larsonelectronics.com/images/product/HigResPic9/45350.JPG>)
- **HigResPic10** (<https://www.larsonelectronics.com/images/product/HigResPic10/45350.JPG>)
- **Video1** (<https://www.youtube.com/watch?v=OGbw09xDtQI>)
- **Video2** (https://www.youtube.com/watch?v=12Quu_Q_Hml)
- **ISO 9001 Certification** (<http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF>)
- **Business Certificate** (<https://www.larsonelectronics.com/images/pdfdocs/w9.PDF>)
- **Shipping Time Map** (<https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf>)