Larson Electronics LLC
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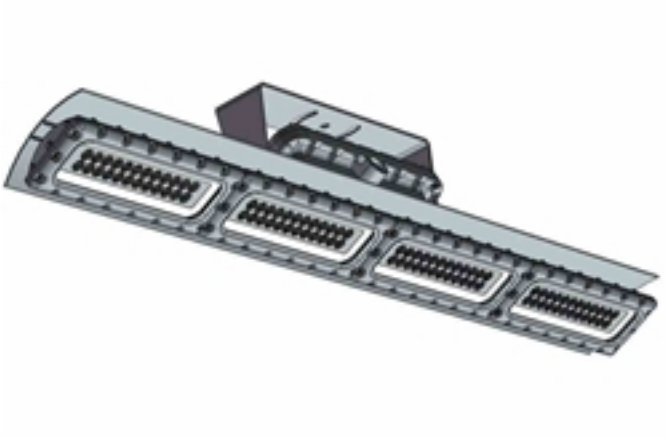
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EPL-LR-48-120W-LED-B-TRN

120W Explosion Proof LED Linear Fixture - Class I, II, III, Group B - 17400 Lumens - Adjustable Trunnion Mount

Product ID: 264897

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-LR-48-120W-LED-B-TRN - Class I, II and III Rated Explosion Proof LED Light

Listing: NRTL Listed for United States and Canada
Lamp Technology: LED
Dimensions: 49.01"-L x 8.28"-H x 6.33"-D
Weight: -
Voltage: 100-277 Volts AC, 50/60Hz or 11-25 Volts AC/DC
Total Watts: 120W
Total Lumens: 17,400 lms
Luminous Efficacy: 145 Lm/W
Lamp Life: 50,000+ Hours
Color Temp: -
Color Rendering Index: -
Lamp Type: -
Lamp Base: -
Replacement Lamp: -
Beam Angle: -
Lighting Configuration: Flood Pattern
Power Efficiency: -
Power Factor: -
Ambient Operating Temp Range: -
Operating Temp Rating: T5
Housing Material: Non-sparking

Ratings/Approvals

Class I, Divisions 1 & 2, Groups B, C, & D
Class II, Divisions 1 & 2, Groups E,F,G
Class III, Divisions 1 & 2
NRTL Certified to UL 844 Ed. 13
NRTL Certified to UL 1598
NRTL Certified to C22.2 No. 137 Rev 2009
NRTL Certified to C22.2 No. 250.0
NRTL Certified to C22.2 No. 30-M-1986 Rev 2012
T5 Temperature Rating
Paint Spray Booth Approved
Complies with IEC 60529
IP67 Rated Waterproof
LEL Approved

Housing Finish: -
Lens Material: -
Gasket Material: -
Mounting: Adjustable U-bracket Trunnion Mount
Wiring: -
Wiring Hub: -

Special Orders - Special Requirements
Contact us for special requirements
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The EPL-LR-48-120W-LED-B-TRN from Larson Electronics is an Explosion Proof Linear LED Light Fixture that provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. This 120-watt lamp provides 17,400 lumens of white light during use. Cree LED technology and compact design makes this unit an excellent replacement upgrade option for bulky and high maintenance cost older incandescent, metal halide and high pressure sodium lights.
This Class I, Divisions 1 & 2 Group B and Class II, Divisions 1 & 2 explosion proof light fixture provides 17,400 lumens of high quality light while drawing only 120 watts. A special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 50,000-hour rated lifespan with 80% lumen retention. With a 145 lm/w efficiency rate, the LED lamp produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries.
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.
LED Drivers: Even in LED fixtures, heat is the single largest factor in premature light failure and color shifting. As a result, many manufacturers reduce the output of their LEDs in order to reduce the amount of heat produced. Rather than lower light output or quality, Larson Electronics addresses this problem with the addition of electronic LED drivers. These internal drivers provide the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. This not only reduces the energy dissipation, effectively lowering the operating temperature of the fixture, but also prevents AC over-voltage and short circuit loading making this fixture virtually maintenance free. Because the electronic drivers allow the EPL-LR-48-120W-LED-B-TRN to run at a cooler internal temperature and regulates the electrical current, energy efficiency and LED service hours are maximized while at the same time reducing operating costs and downtime incurred from the frequent servicing intervals required with other hotter running lights.

Energy Consumption Comparison

	Metal Halide	LED
Wattage	400 watts	150 watts
Amp Draw @ 120V AC	3.83 amps	1.25 amps
Amp Draw @ 220V AC	2.09 amps	0.68 amps
Amp Draw @ 240V AC	1.92 amps	0.63 amps
Amp Draw @ 277V AC	1.66 amps	0.54 amps

Amp Draw @ 12V DC	38.33 amps	12.5 amps
Amp Draw @ 24V DC	19.12 amps	6.25 amps
Lamp Life Expectancy	20,000 hours	60,000+ hours
Operation cost per year (12hs/day @ 12c/kWh)	$241.78	$78.84

Each LED light fixture has the potential to save $150.00+ per year in electricity alone, not including maintenance costs, operational downtime, reduced productivity, HVAC loads, or carbon footprint. When retrofitting an entire facility with 100s of light fixtures, the return on investment of LED over metal halide becomes evident.

Voltage: This explosion proof LED light is universal voltage capable and can be operated with 100-277 V AC, 50/60 Hz without modifications to the fixture. A low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 volts is also available. 18-48 V AC/DC voltage models are available for network systems and marine vessels. We also offer an additional 347-480V high voltage, 125-250 V DC, and 0-10 V dimmable versions of this explosion proof LED light fixture.

Mounting: The EPL-LR-48-120W-LED-B-TRN comes standard with adjustable U-bracket trunnion mounting components. Surface applications are mounted using the included adjustable bracket found on the rear of the unit. To suit various lighting installation requirements, we also offer the following mounting solutions (at an additional cost): flat ceiling mount, wall mount, and pendant mount brackets. Ceiling mounts are ideal for spaces with low ceilings. Pendant mounting configurations enable the light fixture to hang from the ceiling via a pipe, rod, cord or chain.

Suggested Applications: The EPL-LR-48-120W-LED-B-TRN is approved for use within environments where flammable or combustible gases, vapors, dusts, fibers, and flying exist or stand the potential to exist, and is ideal for a wide variety of applications.

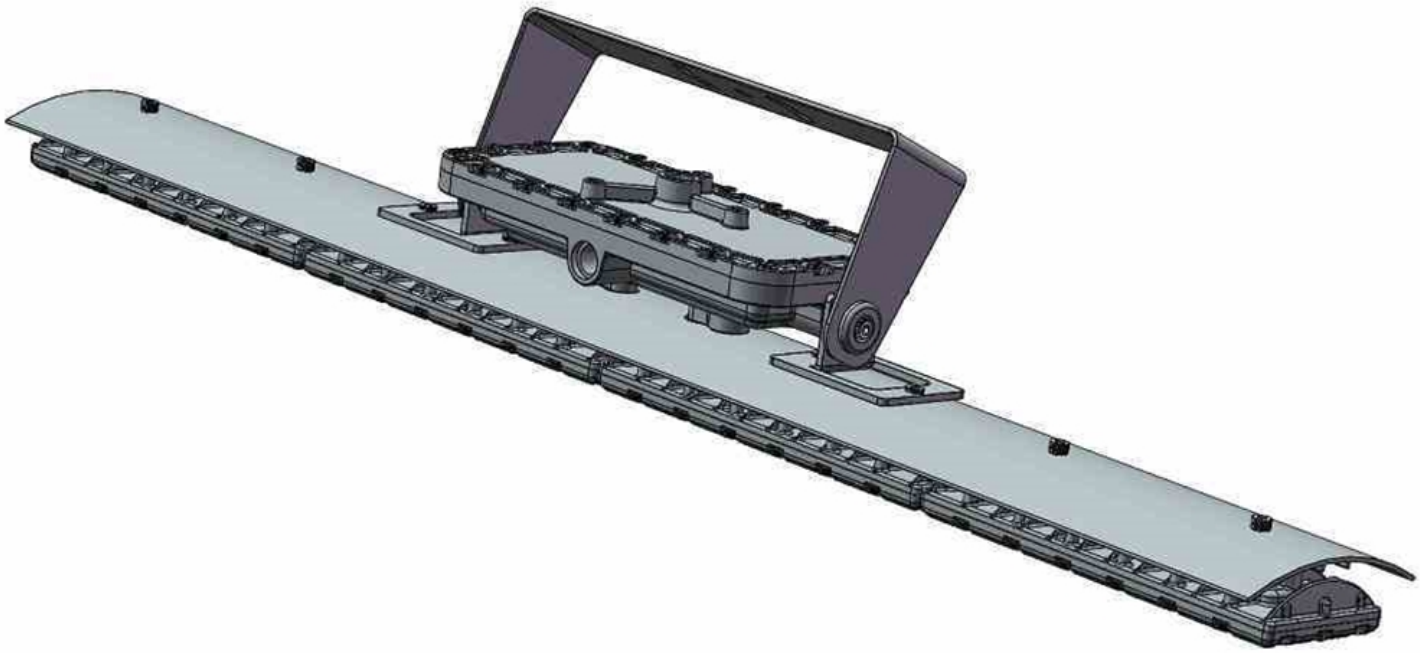
Applications include but not limited to aircraft maintenance, alcohol processing, aerospace, chemical manufacturing, coke processing, cold storage, compressed natural gas (CNG) facilities, cranes, cryogenics, distilleries, food processing (with food grade gasketed polycarbonate lens: EPL-LR-48-120W-LED-B-TRN-188), fuel storage, gas processing plants, grain processing, laboratories, liquefied natural gas (LNG) facilities, liquid propane gas (LPG), manufacturing, marine vessels, methane production, mining, offshore, oil drilling rigs, oil refineries, paint spray booths, paper processing, petrochemical, pharmaceuticals, power plants, production refineries, sand blast cabinets, sewage and septic tanks, shipyards, solvent and cleaning areas, storage facilities, tank farms, tankers, textile, washdown areas, waste treatment plants, and woodworking. Click here to read the NEC description for explosion proof and hazardous locations.

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-LR-48-120W-LED-B-TRN
Product ID: 264897

Warranty: 60 Months

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:
EPL-LR-48-120W-LED-B-TRN-Voltage-Beam Config
Example: EPL-LR-48-120W-LED-B-TRN-1227-60B

Voltage	
120-277V AC	-1227
11-25V AC/DC	-1224

Beam Config	
60°	-60B
125°	-125B

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**