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EPL-SL-3-LP24-LED-TXF

Explosion Proof Low Profile LED String Lights - 3 Lights - 120/277V to 24V - 50ft Cord - 20280 Lumen

Product ID: 105880

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-SL-3-LP24-LED-TXF Explosion Proof Low Profile LED

Lamp Type: LED
Listing: United States, Canada, Europe, Asia
Lamp Dimensions: 30"-L x 5"-W x 3"-H
Weight: 32 lbs
Voltage: Universal 90-305V AC or 127-431V DC stepped down to 24V DC
Total Watts: 156W
Lumens: 20,280
Luminous Efficacy: 130 Lm/W
Lamp Life: 60,000+ Hours
Color Temp: 5600K, 4500K, 3000K
Color Rendering Index: >75 CRI
Beam Angle: 100° Horizontal, 140° Vertical
Lighting Configuration: Wide Flood Pattern
Power Efficiency: >95%
Power Factor: 0.992
Amperage: 1.3A @ 120V, 0.65 @ 240V, 0.57 @ 277V
Ambient Operating Temp Range:-50° C to +65°C
Operating Temp Rating: T5

Housing Material: Copper Free Cast Aluminum

Lens Material: Hardened Borosilicate Glass
Mounting: Aluminum Hooks, Eyelets, Adjustable Brackets
Wiring: 105` - 20` 12/3 Spacing - 65` 12/3 To Transformer w/ seal offs - 15` 16/3 to cord cap
Cord Cap: 5-15, 5-20, 6-20 - Explosion Proof

Ratings/Approvals

Class I, Division 1&2, Groups B, C, D T5
Class II, Division 1&2 Groups E,F,G T5
Class III, Division 1&2 T5
ATEX 2G Ex d IIB+H2 T5 Gb
ATEX 1D Ex tb IIIC T5 Da
IECEx Ex d IIB+H2 T5 Gb
IECEx Ex tb IIIC T5 Da
Certified to UL 844 Ed. 13
Certified to UL 1598
Certified to UL 8750
Certified to C22.2 No. 137 Rev 2009
Certified to C22.2 No. 250.0
Certified to C22.2 No. 250.13
Certified to EN 60079-0:2012
Certified to EN 60079-1:2007
Certified to EN 60079-31:2009
Certified to IEC 80079-34:2011
Paint Spray Booth Approved

Special Orders - Special Requirements

Contact us for special requirements

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E-mail: sales@larsonelectronics.com

Made in the USA

The Larson Electronics EPL-SL-3-LP24-LED-TXF Low Profile Explosion Proof string light set provides operators with a powerful and energy efficient alternative to traditional hazardous location portable stringers. LED technology and compact design makes this LED stringers an excellent replacement upgrade option for bulky and high maintenance cost older fixtures. This explosion proof LED light operates on 120/277V AC stepped down to 24V DC, has a T5 temperature rating and carries a paint spray booth, ATEX and IECEx certifications, and is approved for use in United States, Canada, Europe, and Asia markets. It is ideal for applications such as paint booths, oil rigs, offshore applications, petrochemical, manufacturing, chemical storage, water treatment centers, and food processing plants where a where flammable gases, vapors, or dusts exist or stand the potential to exist.

This explosion proof string light set from Larson Electronics contains a total of three 52 watt explosion proof LED work lights producing a combined 20,280 lumens. Each fixture is equipped with aluminum hooks and connected in series along 40 feet of 12/3 SOOW explosion proof cord. The C1D1 LED light fixtures are junctioned together, with 20 feet of 16/3 SOOW cable between the fixture. With this arrangement, each drop light cannot spark if pulled apart or dragged. A 50` tail section of 12/3 SOOW cord leads to the encapsulated step down transformer, with 15` 16/3 SOOW on the input side of the transformer and terminated in a Class 1, Division 1 explosion proof plug for complete protection.

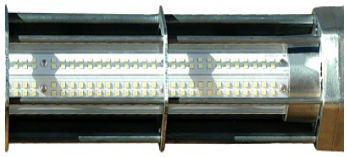
Each Class 1 Division 1 & 2, Class 2 Division 1 & 2 low profile explosion proof light fixture provides 6,760 lumens of high quality light while only drawing 52 watts. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. Special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 60,000 hour rated lifespan with 80% lumen retention at the 60,000 hour mark. Light weight and a low profile make this unit an attractive alternative to larger and heavier older fixtures and requires less hardware to install.

The EPL-SL-3-LP24-LED-TXF from Larson Electronics is an integrated low profile linear explosion proof LED light fixture with a unique design. Instead of using diffused glass, optics, or reflectors to distribute the light, Larson Electronics has positioned the boards within the fixture to provide a wide area light without sacrificing quality or light output. Two offset LED assemblies within the fixture allow this explosion proof linear lamp to provide a brilliant 100° horizontal beam spread and 140° vertical beam spread while achieving a 6,760 lumen output to maintain a small form factor. The LED assembly is protected behind a tempered borosilicate glass tube that is protected by an aluminum wire guard to prevent from accident damage to the light fixture.

With each lamp measuring only 5" in width, these drop lights takes up the same surface area as a standard two foot explosion proof drop light, while providing more light output than a two foot, 2-lamp surface mount linear fluorescent fixture. When compared to our EPL-24-2L-T5HO fixture, a single drop light from the EPL-SL-3-LP24-LED-TXF produces twice the light output than the two 24 watt T5HO lamp; this string light set has three of these LED fixtures fixtures in the set. The EPL-SL-3-LP24-LED-TXF is an ideal for applications with little space where low profile fixtures are required.







Click Photo to Enlarge Click Photo to Enlarge Click Photo to Enlarge

Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. 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 and emit light. 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 traditional 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 lighting.

This explosion proof LED light fixture is IP67 rated, dust-proof, and protected against high pressure jets and temporary submersion. The cast aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronics.

Each LED light fixture produces 6,760 lumens with a color temperature of 5600K and a color rendering index of 75 which produces colors and details much more accurately than high pressure sodium or mercury vapor luminaries. We also offer a 3000K warm white and 4500K natural white color temperature options (longer lead times may apply for non-standard temperatures).

Voltage: The encapsulated step down transformer in this unit 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. These string lights can operate on an input current ranging from 90 to 305V AC or 127 to 431V DC without any modifications necessary and the incoming voltage is stepped down to 24V DC to power the lights. This unit allows operators to power the string light from any 120-277V AC power source, and steps down AC voltage to 24V DC. This ability to sense and adjust input current also provides protection against voltage spikes and drops that can occur in electrical systems which would otherwise result in burning up or premature LED failure without it.

Wiring: This unit is equipped with 50` 12/3 SOOW cable whip leading to an encapsulated step down transformer with seal off. A seal off and 15` of 16/3 SOOW cable coming out of the inline transformer is terminated in an explosion proof cord cap. This unit allows operators to power the string light from any 120-277V AC power source, and steps down AC voltage to 24V DC. Plug options include explosion proof 5-15 15 amp straight blade plug, explosion proof 5-20 20 amp straight blade plug, or explosion proof 6-20 20 amp straight blade plug. Alternatively, we can provide flying leads with no plug for hard wire applications or for operators who prefer to wire in user provided cord caps. Please choose pigtail option below for flying leads with no plug. Custom configurations available, please contact us for more information.

Mounting: Each fixture is supplied with aluminum hooks for hook mounting.

Eyelets on each end of the fixture allow operators to chain hang or S hook mount the fixtures. For semi-permanent installations, surface mount brackets can be used to mount each fixture.

Suggested Applications:

Paint spray booths, aircraft maintenance, oil drilling rigs, refineries, solvent and cleaning areas, gas processing plants, chemical manufacturing, waste water treatment plants, gas processing plants, offshore applications, oil tankers, mud tanks, sand mines, mining, cold weather applications.

High Quality Features

1. Each unit dialectically tested.
2. Low power consumption.
3. Instant on/off operation.
4. Fixture constructed of die-cast,corrosion resistant, copper free aluminum alloy with epoxy finish.
5. No ballast box. No ballast to replace.
6. Superior color rendering compared to HPS, LPS, MH.
7. Retains 80% lumen output after 60,000 operating hours.
8. Powder coated aluminum fixture body.
9. Mounting Options Include Surface and Pendant.
10. Low profile - Light weight
11. 20,280 Lumen output from only 156 watts
12. Lighter weight, slimmer, brighter alternative to fluorescent configurations.
13. Explosion Proof / Flame Proof US, CAN, ATEX, IECEx Rated for us in the United States, Canada, Mexico, England, Middle East, and Asia.
14. 120-277V AC stepped down to 24V DC via an excapsulated explosion proof transformer.

Superior LED Benefits

1. 60,000 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 LED 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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Frequently Asked Questions (FAQ)

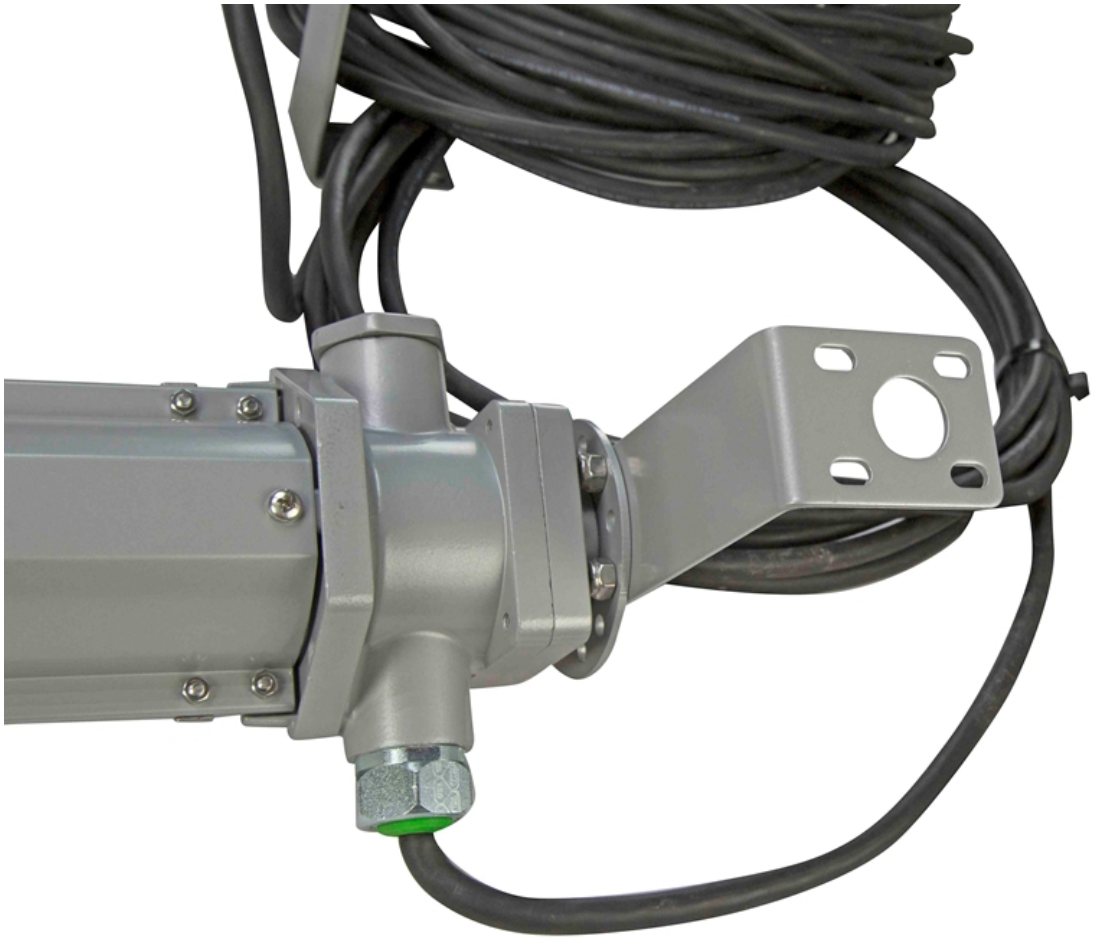
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EPL-SL-3-LP24-LED-TXF

Product ID: 105880

Warranty: 60 Months

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

Options:

EPL-SL-3-LP24-LED-TXF-Cord Cap

Example: EPL-SL-3-LP24-LED-TXF-1523-125V

Cord Cap	
5-15P	-1523-125V
5-20P	-2023-125V
6-20P	-2023-250V

Links (Click on the below items to view):

- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map