

EPL-ST-50LED-RT-WLM

C1D1 Explosion Proof Substation LED Fixture - Paint Spray Booth Approved - 7,000 lms - Wall Mount

Product ID: 234894

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-ST-50LED-RT-WLM - C1D1 Substation LED Light

Listing: United States - Canada

Lamp Technology: LED

Dimensions: 17.04" L x 15.04" H x 5.72" D

Weight: 12 lbs

Voltage: 100-277 Volts AC, 50/60Hz or 11-25 Volts AC/DC

Total Watts: 50W

Total Lumens: 7,000

Luminous Efficacy: 140 Lm/W

Lamp Life: 60,000+ Hours

Color Temp: 5600K, 4500K, 3000K

Color Rendering Index: >75 CRI

Lamp Type: -

Lamp Base: -

Replacement Lamp: -

Beam Angle: 60° or 125°

Lighting Configuration: Flood Pattern

Power Efficiency: >95%

Power Factor: 0.992

Ambient Operating Temp Range: -50° C to +65°C

Operating Temp Rating: T5

Housing Material: Copper Free Cast Aluminum

Housing Finish: Epoxy Powder Coated - Grey

Lens Material: Hardened Borosilicate Glass

Ratings/Approvals

Class I, Divisions 1 & 2, Groups C,D

Class II, Divisions 1 & 2, Groups E,F,G

Class III, Divisions 1 & 2

Certified to UL 844 Ed. 13

Certified to UL 1598

Certified to C22.2 No. 137 Rev 2009

Certified to C22.2 No. 250.0

Certified to C22.2 No. 30-M-1986 Rev 2012

T5 Temperature Rating

Paint Spray Booth Approved

IEC 60529 Tested

IP67 Rated Waterproof

LEL Approved

Single LED Driver

80% Lumen Retention after 60,000 Hours

Factory Sealed Light Fixture

Special Orders - Special Requirements

Contact us for special requirements

Gasket Material: Silicone

Mounting: Wall Mount - 6" Extension from Flat, Vertical Surfaces

Wiring: Internal Wiring Junction Box

Wiring Hubs: (4) 3/4" NPT Threaded Hubs

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The Larson Electronics EPL-ST-50LED-RT-WLM Explosion Proof Substation LED Fixture provides operators with a powerful and energy efficient alternative to traditional hazardous location luminaries. LED technology and compact design makes this lamp an excellent replacement upgrade option for bulky and high maintenance cost older incandescent, metal halide and high pressure sodium lights. Typically pointed upwards, this unit is equipped with a wall-mounting system, which extends 6" from flat, vertical mounting surfaces.

This Class I Division 1 & 2, Class II Division 1 & 2 explosion proof light fixture provides 7,000 lumens of high quality light while drawing only 50 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. 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-ST-50LED-RT-WLM explosion proof substation LED light also offers operators convenience in the form of field serviceability.

This light is universal voltage capable and can be operated with 100-277V AC, 50/60Hz. We also offer a low voltage version of this LED fixture that operates on AC/DC voltages from 11-25 Volts. 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.

This LED light produces 7,000 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).

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 an electronic LED driver. This internal driver provides 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 driver allows the EPL-ST-50LED-RT-WLM 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

	<u>Metal Halide</u>	<u>LED</u>
Wattage	175 watts	50 watts
Amp Draw @ 120V AC	1.69 amps	0.42 amps
Amp Draw @ 220V AC	0.92 amps	0.23 amps
Amp Draw @ 240V AC	0.85 amps	0.21 amps
Amp Draw @ 277V AC	0.73 amps	0.18 amps
Amp Draw @ 12V DC	16.77 amps	4.17 amps
Amp Draw @ 24V DC	8.39 amps	2.08 amps
Lamp Life Expectancy	20,000 hours	60,000+ hours
Operation cost per year (12hs/day @ 12c/kWh)	\$241.78	\$26.30

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.

Wiring: The EPL-ST-50LED-RT-WLM explosion proof LED light fixture is equipped with an internal wiring junction box built into the mount of the fixture. The LED light fixture features four 3/4" NPT threaded ports for running conduit. One port per side of the unit mounting bracket to allow conduit to be ran from top, bottom, or sides of where the fixture is mounted. Additionally, wire can be passed through this junction box, reducing the need for additional junction boxes. Operators run wire directly to the fixture and terminate in the junction box mount. This fixture is factory sealed and does not require a seal off.

Mounting: The EPL-ST-50LED-RT-WLM comes standard with a wall-mount configuration, enabling the light to be pointed upwards. This mounting component extends the fixture up to 6" from a flat, vertical mounting surface. Additional mount options can be ordered separately.

Applications: Elevated lighting systems, substations, flammable work sites, warehouses, hazardous locations, manufacturing plants, chemical processing, woodshops, grain storage centers, agricultural sites and more.

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.

Frequently Asked Questions (FAQ)

EPL-ST-50LED-RT-WLM

Product ID: 234894

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

EPL-ST-50LED-RT-WLM-Voltage-Beam Spread

Example: EPL-ST-50LED-RT-WLM-1227-60B

Voltage		Beam Spread	
120-277V AC	-1227	60°	-60B
11-25V AC/DC	-1224	125°	-125B

Links (Click on the below items to view):

- [HigResPic1](#)
- [Video1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)