Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

EPL-SBDL-V2-50RT-24-1227

50W Explosion Proof LED Dock Light - C1D1, 120-277V AC 50/60 Hz - 7000 lms, 24" Pivoting Arm

Product ID: 279638

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-SBDL-V2-50RT-24-1227 - Hazardous Location LED Dock Light

Listing: NRTL Listed for United States and Canada
Lamp Technology: LED
Dimensions: 7.04" L x 7.04" H x 5.72" - Light Head
Weight: 50 lbs
Voltage: 120-277V AC 50/60 Hz
Total Watts: 50W
Total Lumens: 7,000 lms
Luminous Efficacy: 140 Lm/w
Lamp Life: 60,000+ Hours
Color Temp: 5600K, 4500K, or 3000K
Color Rendering Index: >75 CRI
Lamp Type: -
Lamp Base: -
Replacement Lamp: -
Beam Angle: 60°, 125°, or 140°
Lighting Configuration: Flood Pattern
Power Efficiency: >95%
Power Factor: 0.99
Amps: 0.42A @ 120V, 0.21A @ 240V, 0.18A @ 277V
Ambient Operating Temp Range: -50° C to +65°C
Operating Temp Rating: T5
Temperature Rise: 11°C (10°F) Over Ambient
Housing Material: Copper Free Cast Aluminum
Housing Finish: Epoxy Powder Coated - Grey
Lens Material: Hardened Borosilicate Glass

Ratings/Approvals

Class I, Division 1
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
Replacement for 250W Metal Halide Lamps
Surge Protection
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: 24" Swing Arm Mount - Aluminum

Wiring: Internal Wiring Junction Box

Hub: (1) 3/4" NPT

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The EPL-SBDL-V2-50RT-24-1227 from Larson Electronics is an Explosion Proof LED Dock Light Fixture with Swing Arm Mount that provides operators with a powerful alternative to traditional luminaries in combustible facilities. Capable of replacing 250-watt metal halide lamps, this 50-watt low bay LED unit emits 7,000 lumens, carries an IP67 waterproof rating, and features an extended lifespan of 60,000+ hours. The factory sealed, hazardous location fixture is protected by a copper-free aluminum housing with an epoxy powder coated finish. The EPL-SBDL-V2-50RT-24-1227 is equipped with a 24" swing arm mount.

The EPL-SBDL-V2-50RT-24-1227 is a Class I, Division 1 hazardous location light fixture that is designed for energy efficient and superior illumination in combustible environments. This 50-watt low bay fixture offers 7,000 lumens of high quality light with a color temperature of 5600K. We also offer a 3000K warm white and 4500K natural white color temperature options (longer lead times may apply for non-standard temperatures). Serving as a suitable replacement for 250-watt metal halide lamps, a color rendering index of 75 ensures colors and details are produced more accurately than high pressure sodium or mercury vapor luminaries.

This low bay lighting solution for explosive sites is IP67 rated, dust-proof and protected against high pressure jets and temporary submersion. The copper-free aluminum alloy housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronic components. An epoxy powder coated finish facilitates 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. The hazardous location low bay LED light also offers operators convenience in the form of field serviceability.

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-SBDL-V2-50RT-24-1227 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	175 watts	50 watts
Amp Draw @ 347V AC	1.69 amps	0.14 amps
Amp Draw @ 480V AC	0.92 amps	0.10 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.

Voltage: The light can be operated with 120-277V AC, 50/60 Hz.
Mounting: A 24" swing arm constructed of non-sparking aluminum and provides adjustable mounting for this 50 watt hazardous location LED fixture and allows users to position the light as needed during operations. This swing arm is ideal also for mounting the unit to loading door areas and docks for use as a loading bay or dock light.
Suggested Applications: Loading bays, docks, and other applications that require an explosion proof light source on a versatile swing arm mount.
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.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Frequently Asked Questions (FAQ)

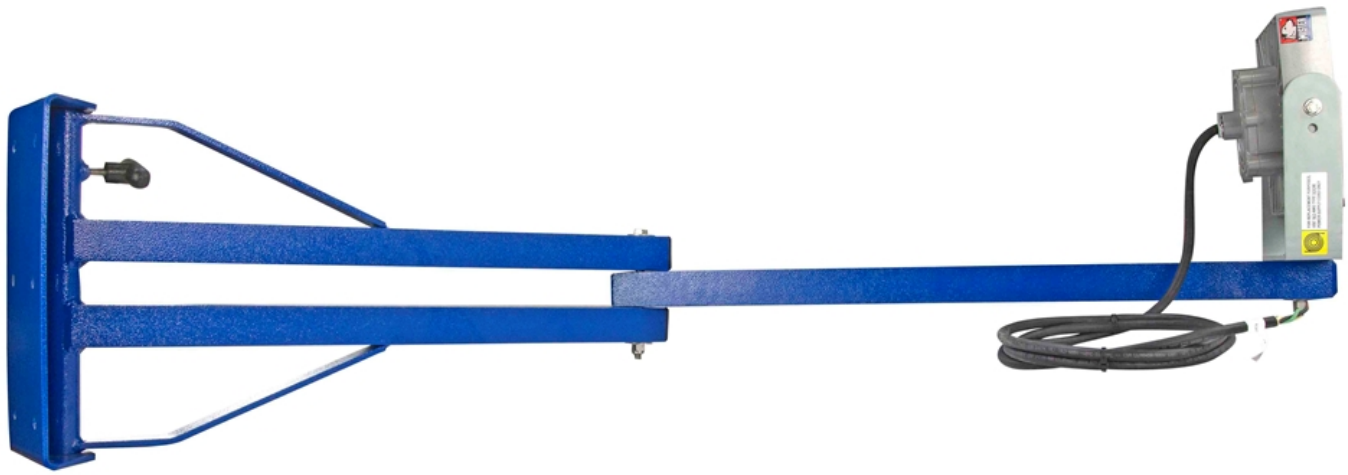


Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364







Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

EPL-SBDL-V2-50RT-24-1227

Product ID: 279638

Export Control Classification Number (ECCN): EAR99

Options:

EPL-SBDL-V2-50RT-24-1227-Beam Spread-Color Temperature

Example: EPL-SBDL-V2-50RT-24-1227-60B-56K

Beam Spread	
60°	-60B
125°	-125B
140°	-140B

Color Temperature	
5600K	-56K
4500K	-45K
3000K	-30K

Links (Click on the below items to view):

- **IES (Photometric File)**
- **LM80**
- **Photometric Flood Report**
- **Photometric Indoor Report**
- **Photometric Polar Graph**
- **Photometric Road Report**
- **TM21**
- **Wiring Diagram**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**