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LEDLB-4E-UV-365NM

12 Watt Ultraviolet LED Emitter - 365NM - 4 UV LEDs - NDT - 9-42V DC - Extreme Environment

Product ID: 68931

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



Image: LEDLB-4E-UV-365NM

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.

LEDLB-4E-UV-365NM LED Light Bar
LEDs: (4) 3 Watt UV LEDs
Dimensions: 5.3"-L x 1.6"-W
Watts: 12

Voltage: 9-42 V DC

Weight: 2.4 lb
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Adjustable Single Stud Mount
Wiring: Deutsch IPD / LADD DT04-2P Connector
Amps: 1.08 (on 12 volts) .54 (on 24 volts)
LED Light Color: Ultraviolet (365NM)

Intensity (Spot): 50 mW/cm² @ 12"

Intensity (Flood): 6 mW/cm² @ 12"
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black

LEDLB LED Features
3 Watt LEDs
LEDs Driven At 80%
-40°C ~ +80°C Operating Temp Range

RoHS Compliant

70% Lumen Retention @ 65,000 hours
LED Chip Op Temp -40°C to +125°C
IP68 Rated Waterproof to 3 Meters
Adjustable Stud Mounting
CE Certified

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

Buy American Compliant

The LEDLB-4E-UV-365NM from Larson Electronics is an UV LED Light Bar that offers high light output and extreme durability combined with versatile mounting and power options. This IP68 rated LED light bar is waterproof to three meters and produces ultraviolet 365nm light while drawing only 12 watts of power @ 1.08 amps from a 12 volt electrical system. This light can run on any voltage from 9 to 42 volts DC and provides an extremely rugged lighting solution that is ideal for use in commercial marine environments as well as industrial and manufacturing applications such as machine vision system lighting, heavy equipment illumination, blasting lighting and mining operations.

The LEDLB-4E-UV-365NM LED light bar from Larson Electronics produces UV light in the 365 nanometer spectrum with a 50mW intensity. Four 3 watt LEDs producing 12.5 mW/cm² each are arranged in rows and paired with high purity 10 degree optics to produce a tightly focused spot beam with limited spread or light spillage. We also offer optional floodlight versions with 35 degree optics to produce a wider beam spread and more light over a larger area nearer the fixture, making flood versions ideal for use as work and area lights. These LED light bars are IP68 rated and waterproof to 3 meters, sealed against intrusion by dust and dirt and very ruggedly constructed to withstand the most demanding environments, conditions and applications. The entire Larson Electronics LEDLB-E series are constructed of extruded aluminum and feature heavier housings, rubber isolated mounts and unbreakable polycarbonate lenses to provide increased durability against vibrations, impacts, waves, hard rains, sand and high winds.

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.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that

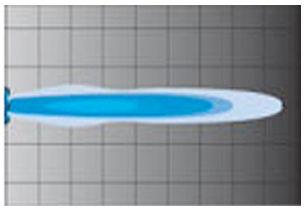
incorporates an advanced heat radiating fin design which dissipates heat efficiently to produce the maximum amount of power and longevity from the integrated Edison Edixeon® LEDs. The end result is more light and longer LED life with higher average lumen maintenance after 50,000 hours.

Voltage Control: These units are able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDLB series light bars can operate on current ranging from 9 to 42 V DC without any modifications necessary as a result. This multi-voltage capability makes these units ideal for mobile and standalone applications such as those found on commercial boats, heavy equipment and vehicles where power systems don't always operate with 12 volts and external generators, transformers or inverters are impractical.

LEDLB-4E-UV-365NM
35° Flood Beam



LEDLB-4E-UV-365NM
10° Spot Beam



Durability: The LEDLB-E series of LED light bars from Larson Electronics offer IP68 rated construction that is designed to withstand extremes of environmental and operating conditions. The LED lights with the `E` part number designation are designed for extreme durability and are larger and nearly twice as heavy as their standard counterparts. These units can withstand rapid temperature changes of -40 degrees Celsius to 85 degrees Celsius, are waterproof to three meters and resist ingress of dust, dirt and humidity. The housings are formed from thick extruded aluminum and the lenses are unbreakable polycarbonate. The Edixeon® LEDs offer inherent LED resistance to shocks and vibrations contributing to these units 15.6Grms rating of vibration tolerance. We recommend these LED lights for high stress - high vibratory conditions, high humidity climates, very cold areas and rough saltwater conditions. They are also well suited to environments where equipment is used in one temperature extreme and stored in another temperature extreme.

Mounting: Measuring only 5.3 inches long by 1.6 inches wide, this very compact LED spreader light fixture is designed for stud mounting with a single 1/4-20 stud mount on a pivoting bracket for easy installation. The pivoting bracket allows adjustment of the fixture to any angle and a simple nylock secures the angle of the light once positioned. We also offer a BC-2 bar clamp mounting system you can view here for even greater mounting versatility.

Note: Most Larson Electronics LEDLB, LEDP3W, LEDP10W, and LED10W series LED spotlights and floodlights are terminated with a Deutsch IPD / LADD DT04-2P connector. The mating connector plug is DT06-2S. Most LEDLB and LED10W series lights ship with mating connector as part of a harness or pigtail, depending on the model. Some larger LED lights like the LEDLB-160X2 or LEDLB-200X2 or multiple function LED lights (i.e. high/low beam,

modulating, IR/Visible combos) will have different Deutsch connectors.

Intensity:
50 mW/cm² (50,000 µW/cm²) in a spot configuration measured at 12".
6 mW/cm² (6,000 µW/cm²) in a flood configuration measured at 12".

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)

There are no Faqs

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Image: LEDLB-4E-UV-365NM Side view of the LEDLB-4E-UV-365NM

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Image: LEDLB-4E-UV-365NM Back view of the LEDLB-4E-UV-365NM

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Image: LEDLB-4E-UV-365NM LEDLB-4E-UV365NM Connector



Image: LEDLB-4E-UV-365NM Extreme environment UV light bar

LEDLB-4E-UV-365NM

Product ID: 68931

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

Options:

LEDLB-4E-UV-365NM-Beam Config
Example: LEDLB-4E-UV-365NM-SP

Beam Config	
10° SPOT	-SP
35° FLOOD	-FL

Links (Click on the below items to view):

- **CE Certificate**(https://www.larsonelectronics.com/images/product/CECert/68931.PDF)
- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/68931.PDF)
- **Military Specification Certificate 1**(https://www.larsonelectronics.com/images/product/Milspec1/68931.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/68931.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/68931.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/68931.PDF)
- **Spectrum Curve (Wavelength Graph)**(https://www.larsonelectronics.com/images/product/SpectrumChart/68931.PDF)
- **STEP File (3D CAD Model)**(https://www.larsonelectronics.com/images/product/Step/68931.ZIP)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/68931.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/68931.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/68931.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/68931.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/68931.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/68931.JPG)
- **HigResPic6**(https://www.larsonelectronics.com/images/product/HigResPic6/68931.JPG)
- **Video1**(https://www.youtube.com/watch?v=ZONUuxlkRWM)
- **Video2**(https://www.youtube.com/watch?v=UM-fBIUG0pA)
- **Video3**(https://www.youtube.com/watch?v=x-oHb7r7Quw)
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