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LEDLB-24E-UV-365NM-D-PWM

120 Watt Ultraviolet Dimmable LED Light - 24 UV LEDs - 365NM - 9-42V DC - NDT - Extreme Environment

Product ID: 275974

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.

LEDLB-24E-UV-365NM-D-PWM Dimmable LED Light Bar

LEDs: (24) 5 Watt UV LEDs
Dimensions:8.25"-L x 5.25"-H x 3.56"-D
Watts: 120
Voltage: 9-42 V DC
Weight: 7.4 lb
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Inverted U Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 10 A @ 12 V; 5 A @ 24 V
LED Light Color: Ultraviolet (365NM)
Intensity (Spot): 300 mW/cm² @ 12"
Intensity (Flood): 35 mW/cm² @ 12"
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White

LEDLB LED Features

5 Watt UV 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
PWM Dimming Input
CE Certified

Special Orders - Special Requirements

Contact us for special requirements

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Buy American Compliant

The LEDLB-24E-UV-365NM-D-PWM from Larson Electronics is a Dimmable

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 300 mW/cm² while drawing only 120 watts of power @ 10 amps from a 12 volt electrical system. This light can run on any voltage from 9 to 42 volts 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-24E-UV-365NM-D-PWM LED light bar from Larson Electronics produces a UV light beam in the 365 nanometer wavelength spectrum with a 300 mW/cm² intensity while drawing only 120 watts @ 10 amps from a 12 volt electrical system. Twenty-four five 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.

This 120 watt ultraviolet LED fixture is a direct replacement for 400 watt metal halide fixtures with 365nm cutoff filters. Unlike metal halide fixtures that produce UV-B and UV-C radiation, the LEDLB-24E-UV-365NM-D-PWM produces UV-A wavelengths only. This results in more useable ultraviolet light and requires no cutoff filters or lenses. The low profile housing makes this UV LED light fixture an ideal alternative to fragile and bulky gas burning fixtures.

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® Emitters. The end result is more light and longer LED life with higher average lumen maintenance after 50,000 hours.

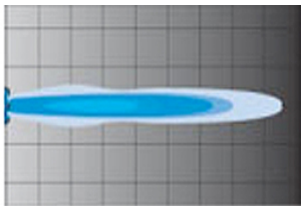
Voltage Control: These units are able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDLB series light bars can operate on current ranging from 9 to 42 V DC without any modifications necessary as a result. This multi-voltage capability makes these units ideal for mobile and stand alone 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.
PWM Control: The LEDLB-24E-UV-365NM-D-PWM is compatible with pulse width modulation dimmers (sold separately). Adding a PWM dimmer to this unit allows operators to dim the fixture to their needs. The pulse width modulation drivers in this unit also provide secondary benefits through the ability to tap into a provided input wire with an external pulse generator and adjust the duty cycle of the current being applied to the LEDs. Thus you can connect an external dimmer, switch or pulse control and adjust the perceived output of the light, effectively causing the light to flash, dim, or brighten to the desired levels. Additionally, this method of controlling light output results in a corresponding drop in amperage draw, so if the duty cycle is cut back to 50% there will be a matching 50% reduction in amperage draw. These units are also able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. his ability to sense and adjust input current also provides protection against voltage spikes and drops that can occur in vehicle electrical systems which would otherwise result in burning up or premature LED failure without it.

LEDLB-24E-UV-365NM-D-PWM35° Flood Beam



LEDLB-24E-UV-365NM-D-PWM10° 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 heavier than the standard LEDLB series lights and are 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: Larson Electronics LEDLB series light bars are equipped standard with aluminum mounting blocks which slide within the aluminum housing to allow users to adjust their positioning to match existing or user drilled mounting holes. Each aluminum mounting block has an integrated rubber bushing to absorb vibrations and shocks. To secure the lights in place users simply slide the mounting bolts through the aluminum mounting block and rubber isolator, through the mounting surface, then secure the bolt with a locking nut on the opposite side of the mounting surface. This mounting system enables mounting to flat or round surfaces and allows for minimal 7 degrees of flexibility of angle placement of the light. In this LED emitter light bar model, an additional mounting option is provided. The adjustable, shock insulated mounts are attached to a simple, inverted u-bracket type mount. The LED light bar can then be mounted via a single 3/8 bolt through the center of the bracket. 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:

300 mW/cm² (300,000 µW/cm²) in a spot configuration measured at 12".
35 mW/cm² (35,625 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)





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Product ID: 275974

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

Options:

LEDLB-24E-UV-365NM-D-PWM-Finish-Beam Config

Example: LEDLB-24E-UV-365NM-D-PWM-Black-S

Finish	
BLACK	-Black
WHITE	-White

Beam Config	
SPOT	-S
FLOOD	-F

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **Operations Manual**
- **STEP File (3D CAD Model)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **Video4**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**