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LEDLB-44E-UV-400NM-1227

132 Watt Ultraviolet LED Light Emitter - 44 LEDs - 400NM - 24" Light Bar - 120/277V - Extreme

Product ID: 105166

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-44E-UV-400NM-1227 LED Light Bar

LEDs: (44) 3 Watt UV LED Emitters
Dimensions: 24"-L 5.25"-H 3.56"-D
Watts: 132
Voltage: 120-277V AC
Weight: 14 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Inverted U Bracket
Amps: 1.1 (on 120 volts) .55 (on 240 volts)
LED Light Color: Ultraviolet (400NM)
Intensity (Spot): 176 mW/cm² @12"
Intensity (Flood): 21 mW/cm² @ 12"
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White
Wiring: 20` 16/2 SOOW, remote LED driver, 5` 16/3 SOOW
Cord Cap: 5-15, L5-15, L6-15, BS1363, Schuko, Pigtail

LEDLB LED Features

3 Watt UV LED Emitters
LEDs Driven At 80%
-40 C~ +80C Operating Temp Range
RoHS Compliant
70% Lumen Retention @65,000 hours
LED Chip Op Temp -40C to +125C
IP68 Rated Waterproof to 3 Meters
CE Certified

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
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Buy American Compliant
The Larson Electronics LEDLB-44E-UV-400NM-1227 LED Light Bar 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 176 mW/cm² while drawing only 132 watts of power at 1.1 amps from a 120 volt electrical system. This light can run on any voltage from 120 to 277 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-44E-UV-400NM-1227 LED light bar from Larson Electronics produces light beam in the 395-405NM wavelength with 176 mW/cm² of ultraviolet light while drawing only 132 watts @ 1.1 amps from a 120 volt electrical system. Forty-four three watt LEDs producing 4 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.

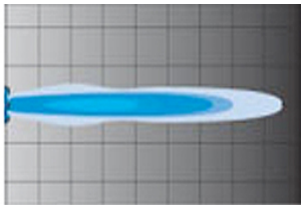
Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating 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 120 to 277V AC without any modifications necessary as a result. This universal voltage capability makes these units ideal for industrial and stand alone applications such as those found on commercial assembly lines, machine vision systems, curing, and manufacturing.

LEDLB-44E-UV-400NM-12273 5° Flood Beam (Opt)



LEDLB-44E-UV-400NM-12271 0° Spot Beam (Stnd)



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.
Wiring: This ultraviolet LED light is equipped with 20 foot of 16/2 chemical and abrasion resistant SOOW cord between the light ans the LED driver, a remote mount driver, and 5 foot of 16/3 SOOW cable on the input side of the driver that is fitted with an industrial grade cord cap for easy connection to common wall outlets. Plug options include standard 5-15 straight blade plug for 110V wall outlets with ground, NEMA L5-15 twist lock plug for 125V twist lock outlets, NEMA L6-15 twist lock plug for 240V twist lock outlets, BS1363 3-blade plug for United Kingdom outlets, and a two pin Schuko plug for European outlets. Alternately, we can leave the unit with flying leads for hard wire applications. Please choose termination below.
Intensity:
176 mW/cm² (176,000 µW/cm²) in a spot configuration measured at 12".
21 mW/cm² (21,000 µW/cm²) in a flood configuration measured at 12".

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Frequently Asked Questions (FAQ)

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LEDLB-44E-UV-400NM-1227
Product ID: 105166

Warranty: 36 Months

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

Options:
LEDLB-44E-UV-400NM-1227-Finish-Beam Config-Cord Cap
Example: LEDLB-44E-UV-400NM-1227-BLK-S-5.15

Finish	
BLACK	-BLK
WHITE	-WHT

Beam Config	
SPOT	-S
FLOOD	-F

Cord Cap	
5-15 STRAIGHT	-5.15
L5-15 TWIST	-L5-15
L6-15 TWIST	-L6-15
UK BS1363	-BS13
INTL SCHUKO	-Schuko
PIGTAIL	-Pigtail

Links (Click on the below items to view):

- **CE Certificate**
- **Military Specification Certificate 1**
- **MSDS (Material Safety Data Sheet**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **Video4**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**