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LEDLB-4ET-F-110V

12 Watt LED Machine Light - 90'L X 70'W Beam - Runs Off 110VAC

Product ID: 69861

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-4ET-F-110V LED Light Bar

LEDs: 4 Edixeon® 3 Watt LED Emitters
Dimensions: 4"-L 3"-H 3.56"-D
Watts: 12
Voltage:110 with included transformer- 9-42 VDC Without transformer
Weight: 2.4 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Adjustable Trunnion
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 1 (on 12 volts) .5 (on 24 volts)
Lumens: 720
LED Light Color: 6000K or 3000K
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White
Lux-Flood : @Lens: 185,800 @ 1 Meter 2,672
Lux-Spot : @Lens: 190,400 @ 1 Meter 8,440
CE Certified
3 year warranty replacement on this LED light. After 30 days, the customer ships the failed LED light and/or LED bulb to Larson Electronics at their expense. If the failure is a manufacturer defect, we will ship a new replacement to the customer. If failure occurs within 30 days of receipt, Larson Electronics will provide a return label via email to the

LEDLB LED Features

Edixeon® 3 Watt 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

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

customer. When the failed light is returned, Larson Electronics will ship a new replacement.

Buy American Compliant

The Larson Electronics LEDLB-4ET-F-110V LED Light Bar offers high light output and extreme durability combined with a versatile adjustable mounting system. This LED light emitter bar light runs on 110VAC provided by an included inline power transformer. The 110 VAC capability of this light provides an extremely rugged lighting solution that is ideal for use in industrial and manufacturing applications such as machine vision system lighting, industrial machining illumination, blasting lighting and mining operations.

The LEDLB-4ET-F-110V LED light bar from Larson Electronics produces a 90` long by 70` wide light beam with 720 lumens of bright light. Four Edison Edixeon® Emitters containing CREE EZBright® three watt LEDs producing 180 lumens 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 feet, 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 magnetic base allows fast and easy setup of this light on vehicles and equipment and will hold the fixture in place at speeds up to 80 mph provided the mount is properly affixed and secure.

This image shows a dark street, illuminated by nothing but distant street lamps and suburban lighting.
Click Photo to Enlarge

The same street illuminated with the LEDLB-4ET-F-110V, easily reaching distances of 90` in length and 70` in width. .
Click Photo to Enlarge

This LED light emitter bar light is designed to run on any voltage ranging from 9 Volts to 42 Volts. However, with our new integrated inline transformer design, the fixture can now be operated with standard 110 VAC power found in standard wall outlets. Essentially, this means the operator can use this LED light bar anywhere a wall plug in is available or, by disconnecting the step down transformer, he/she can power this LED light emitter bar from any vehicle, equipment, ATV or boat electrical system. You do not need to anything special to operate these light bars in their multi-voltage 9-32 Volt configuration. They will sense the incoming voltage and adapt accordingly.

This unit is also shipped with 6` of additional SOOW cord, for a combined total length of 11` from the converter to the fixture. In this particular light, a step down transformer converts the original 110 Volt current into 12 volts to accommodate the fixture. If operator decides he/she would like to run off 9 - 42 VDC, all he/she has to do is disconnect from said transformer.

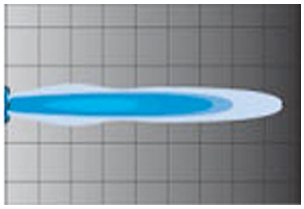
Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating 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 42VDC 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-4ET-F-110V 35° Flood Beam (Opt)



LEDLB-4ET-F-110V10° 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 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.
Adjustable Mounting: The trunnion wall mounting design on the LEDLB-4ET allows for post-installation angle positioning. This means that by loosening 2 thumb bolts located on either side of the light, the operator can adjust the positioning angle of this light 270 degrees. Then he/she would simply have to tighten thumb bolts to lock the angle in place. No tools are required for adjusting angle. 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.

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Frequently Asked Questions (FAQ)






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LEDLB-4ET-F-110V

Product ID: 69861

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LEDLB-4ET-F-110V-Finish-Beam Config-Color Temp

Example: LEDLB-4ET-F-110V-BLK-S-6000K

Finish	
BLACK	-BLK
WHITE	-WHT

Beam Config	
SPOT	-S
FLOOD	-F

Color Temp	
6000K	-6000K
3000K	-3000K

Links (Click on the below items to view):

- CE Certificate
- Military Specification Certificate 1
- MSDS (Material Safety Data Sheet
- Operations Manual
- RoHS Certificate (Restriction of Hazardous Substances)
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map