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LEDLB-40ET-SF

120W LED Light Emitter w/ Trunnion U-Bracket - 40 LEDs - 9-42VDC - 1250'L X 200'W - Spot/Flood Combo

Product ID: 224534

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-40ET-SF LED Light Bar

LEDs: 40 Edixeon® 3 Watt LED Emitters
Dimensions: 22"-L 3"-H 3.56"-D
Watts: 120

Voltage: 9-42 VDC
Spot Beam: 1250`L x200`W
Flood Beam: 420`L x 380`W

Weight: 11.4 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Adjustable Trunnion

Wiring: Deutsch IPD / LADD DT04-2P connector

Amps: 10 (on 12 volts) 5 (on 24 volts)

Lumens: 7,200
LED Light Color: 6000K

LED Life Expectancy: 50,000 hours

Optics Efficiency: 90%

Materials: Aluminum Housing, Polycarbonate Lens

Housing Colors: Black or White
Lux: @Lens-199,600 @1 Meter-39,400

CE Certified
3 year warranty replacement on this LED light. After 30 days, the customer ships 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
Ambient Op Temp -40C to 85C
IP68 Waterproof to 3 meters
Spot/Flood Combination

Special Orders - Special Requirements
Contact us for special requirements

Toll Free: 1-800-369-6671

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

Buy American Compliant

The Larson Electronics LEDLB-40ET-SF LED Boat Light offers high light output with a spot/flood combination and extreme durability combined with a versatile trunnion mounting system that provides 270 degrees of adjustability. This IP68 rated LED light bar is waterproof to three meters and produces 7,200 lumens 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 marine environments as a spreader light as well as in industrial and manufacturing applications such as machine vision system lighting, heavy equipment illumination, blasting lighting and mining operations. Separate power supply connections allow operators to change from spot to flood with a 3-way toggle switch.

The LEDLB-40ET-SF LED light bar from Larson Electronics produces a 1250` long by 200` wide light beam with 7,200 lumens of bright light while drawing only 120 watts @10 amps from a 12 volt electrical system. Forty Edison Edixeon® Emitters containing CREE EZBright® three watt LEDs producing 180 lumens each are paired with high purity optics to produce a tightly focused 10 degree spot beam and an optional 35 degree floodlight beam with limited spread or light spillage. These LED boat 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.
This LED spot/flood combination light is equipped with separate power supply connections allowing operators to change from spot to flood with a 3-way toggle switch. Operators can power the spot lamp, then quickly switch to the flood lamp with the flip of a switch. Alternatively, spot and flood beams can be wired to two individual switches, allowing both beams to be illuminated at the same time if operator requires both spot and flood at the same time. The top 20 LEDs are spot and the bottom 20 LEDs are flood.
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.

Shown above, vehicle headlights only...

Click Photo to Enlarge

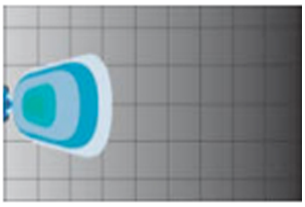
Headlights supported with LED light bar

Click Photo to Enlarge

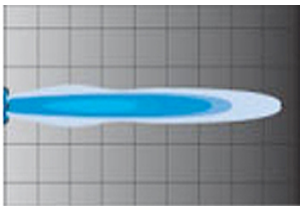
Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating 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-40ET-SF 35° Flood Beam (Opt)



LEDLB-40ET-SF 10° 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 mounting design on the LEDLB-40ET-SF 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. 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)









LEDLB-40ET-SF

Product ID: 224534

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

Options:

LEDLB-40ET-SF-Color

Example: LEDLB-40ET-SF-BLK

Color	
BLACK	-BLK
WHITE	-WHT

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)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map