Larson Electronics LLC
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LEDLB-20E-IR-MHL

60 Watt Infrared LED Headlight - 20 IR LEDs - Extreme Environment - 250'L X 250'W Flood Beam

Product ID: 68888

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



Image: LEDLB-20E-IR-MHL

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-20E-IR-MHL Infrared LED Headlight

LEDs: 20 Edixeon® 3 Watt IR LED Emitters
Dimensions: 12"-L 3"-H 3.57"-D
Watts: 60
Voltage: 9-42 VDC
Weight: 6.4 Lbs
Lighting Configuration: 0° Spot or 35° Flood
Mounting: Stud
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 5 (on 12 volts) 2.5 (on 24 volts)
Wavelength: 750Nm, 850Nm or 940Nm
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White
Spot Beam: 800`L x 80`W
Flood Beam: 250`L x 250`W

LEDLB LED Features

Edixeon® 3 Watt IR 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 +110C
IP68 Rated Waterproof to 3ft

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

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

Buy American Compliant

The Larson Electronics LEDLB-20E-IR-MHL LED Headlight offers powerful infrared light output and extreme durability. This IP68 rated infrared LED headlight is waterproof to three meters and produces an infrared light beam that can only be seen through the use of night vision goggles. This light can run on any voltage from 9 to 42 volts and provides an extremely rugged infrared lighting solution that is ideal for use in covert applications within military environments.

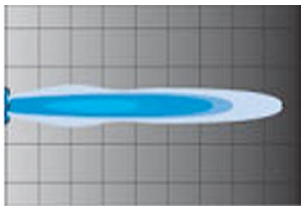
The LEDLB-20E-IR-MHL infrared LED headlight produces light in the infrared 940Nm end of the light spectrum. Twenty Edison Edixeon® 3 watt infrared emitters are arranged in rows and paired with high purity 35 degree optics to produce a a wider beam spread and more light over a larger area nearer the fixture. 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 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.

These infrared lights are ideal for use as headlights, signal lights, or indicator lights on vehicles where covert operations require the ability to run vehicles under blacked out conditions, yet maintain their visibility to friendly personnel through the use of night vision equipment.

LEDLB-20E-IR-MHL 35° Flood Beam (Stnd)



LEDLB-20E-IR-MHL 10° Spot Beam (Opt)



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 stand alone applications such as those found on boats, heavy equipment and vehicles where power systems don't always operate with 12 volts and external generators, transformers or inverters are impractical.

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 feet 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.

Click here to view an article on the Generations of Night Vision and Infrared.

Note: Most of our 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)

There are no Faqs

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LEDLB-20E-IR-MHL

Product ID: 68888

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

Options:

LEDLB-20E-IR-MHL-Beam Pattern-Wavelength-Housing Color
Example: LEDLB-20E-IR-MHL-F-750-Blk

Beam Pattern	
FLOOD	-F
SPOT	-S

Wavelength	
750NM	-750
850NM	-850
940NM	-940

Housing Color	
BLACK	-Blk
WHITE	-Wht

Links (Click on the below items to view):

- **CE Certificate** (https://www.larsonelectronics.com/images/product/CECert/68888.PDF)
- **Eye Safety Information/Certificate** (https://www.larsonelectronics.com/images/product/EyeSafety/68888.PDF)
- **Military Specification Certificate 1** (https://www.larsonelectronics.com/images/product/Milspec1/68888.PDF)
- **MSDS (Material Safety Data Sheet** (https://www.larsonelectronics.com/images/product/Msds/68888.PDF)
- **Operations Manual** (https://www.larsonelectronics.com/images/product/Manual/68888.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)** (https://www.larsonelectronics.com/images/product/RoHSCert/68888.PDF)
- **Spectrum Curve (Wavelength Graph)** (https://www.larsonelectronics.com/images/product/SpectrumChart/68888.PDF)
- **HigResPic1** (https://www.larsonelectronics.com/images/product/HigResPic1/68888.JPG)
- **HigResPic2** (https://www.larsonelectronics.com/images/product/HigResPic2/68888.JPG)
- **HigResPic3** (https://www.larsonelectronics.com/images/product/HigResPic3/68888.JPG)
- **HigResPic4** (https://www.larsonelectronics.com/images/product/HigResPic4/68888.JPG)
- **HigResPic5** (https://www.larsonelectronics.com/images/product/HigResPic5/68888.JPG)
- **HigResPic6** (https://www.larsonelectronics.com/images/product/HigResPic6/68888.JPG)
- **HigResPic7** (https://www.larsonelectronics.com/images/product/HigResPic7/68888.JPG)
- **Video1** (https://www.youtube.com/watch?v=QNIIwlMmJLY)
- **ISO 9001 Certification** (http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate** (https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map** (https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)