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LEDLB-20E-IR-MHL-60V

60W Infrared LED Headlight - 20 IR LEDs - Extreme Environment - 250'L X 250'W Flood Beam - 45-60VDC

Product ID: 146980

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-20E-IR-MHL-60V Infrared LED Headlight

LEDs: 20 Edixeon® 3 Watt IR LED Emitters
Dimensions: 12"Lx 3"H x 3.57"D
Watts: 60
Voltage: 45-60V DC
Weight: 6.4 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Stud
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 1.33 (on 45 volts) 1 (on 60 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 LEDs
LEDs Driven At 80%
-40°C ~ +80°cC Operating Temp Range
RoHS Compliant
70% Lumen Retention @ 65,000 hours
LED Chip Op Temp -40°C to +110°C
IP68 Rated Waterproof to 3ft
CE Certified

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
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E-mail: sales@larsonelectronics.com

Buy American Compliant

The Larson Electronics LEDLB-20E-IR-MHL-60V 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 45 to 60 volts DC and provides an extremely rugged infrared lighting solution that is ideal for use in covert applications within military environments.

The LEDLB-20E-IR-MHL-60V infrared LED headlight produces light in the infrared 940Nm end of the light spectrum. Twenty Edison Edixeon® 3 watt infrared LEDs 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.

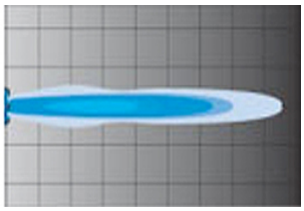
LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive 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.

LEDLB-20E-IR-MHL-60V 35° Flood Beam (Stnd)



LEDLB-20E-IR-MHL-60V 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® 3 watt infrared LEDs. The end result is more light and longer LED life with higher average lumen maintenance after 50,000 hours.

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.

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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LEDLB-20E-IR-MHL-60V
Product ID: 146980

Warranty: 36 Months

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

Options:
LEDLB-20E-IR-MHL-60V-Beam Config-Wavelength-Housing Color
Example: LEDLB-20E-IR-MHL-60V-FL-750NM-BLK

Beam Config	
FLOOD	-FL
SPOT	-SP

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

Housing Color	
BLACK	-BLK
WHITE	-WHT

Links (Click on the below items to view):

- **CE Certificate**
- **Eye Safety Information/Certificate**
- **Military Specification Certificate 1**
- **MSDS (Material Safety Data Sheet**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**