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LEDXUL-4E-IR

12W IR LED Light Bar - Submersible Underwater Light - 90'L x 70'W Beam - 9-42VDC - 720 Lumens

Product ID: 278616

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.

LEDXUL-4E-IR Infrared LED Light Bar
Lamp Type: 4 Edixeon® 3 Watt IR LEDs
Dimensions: 6"-L x 5"-H x 5.56"-D
Total Watts: 12W
Voltage: 9-42 V DC
Amps: 8 A @ 12 V DC, 4 A @ 24 V DC
Lumens: 720
Beam Configuration: 10° Spot or 35° Flood
Spot Beam: 90'L x 70'W
Flood Beam: 70'L x 60'W
Wavelength: 750Nm, 850Nm, or 940Nm
Lux at Lens: 199,600
Lux at 1 Meter: 39,400
LED Life Expectancy: 50,000+ hours
Ambient Operating Temp Range: -40°C to +80°C
Optics Efficiency: 90%
Housing Material: Heavy Duty Billet Aluminum CNC Machined Housing
Mounting/Hardware Material: Stainless Steel
Lens Material: Shatter Resistant Polycarbonate Lens, One-piece Front Lens Cover
Lens Gasket: O-Ring
Wiring: Deutsch IPD / LADD DT04-2P Connector, Potted Power Connector
Housing Color: Black or White
Weight: 7 lb

Ratings/Approvals
CE Certified
RoHS Compliant
70% Lumen Retention @ 65,000 hours
Submersible to 3 Meters
Fresh and Saltwater Applications
Usable Above Water
IP68 Waterproof

Special Orders - Special Requirements
Contact us for special requirements

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Buy American Compliant

The LEDXUL-4E-IR from Larson Electronics is an Infrared LED Light Bar that offers high-intensity LED light output and extreme durability combined with versatile mounting and power options. This heavy-duty LED light bar, which is submersible up to 3 meters, produces a bright, 720 lumen IR LED light beam that can reach up to 90` away from the operator. This low voltage light is available with 750Nm, 850Nm, or 940Nm wavelengths and provides an extremely rugged lighting solution that is ideal for use in commercial and industrial security applications, as well as military environments.

The LEDXUL-4E-IR LED light bar from Larson Electronics produces 720 lumens of white light at a color temperature of 6000K. Four Edison Edixeon® 3 watt infrared LEDs producing 180 lumens each are arranged in rows and paired with high purity 10 degree optics to produce a tightly focused spot beam 90` long by 70` wide with limited spread or light spillage. We offer optional floodlight versions of this light that have 35 degree optics to produce a wider beam spread and more light over a larger area nearer the fixture.

This 12-watt unit, which operates on 9-42 V DC, may be used both underwater and above water. When used underwater, the luminary is submersible up to 3 meters, with maintained submersion capabilities in both fresh water and saltwater. Above water, the device is able to stay cool without reliance on surrounding water, allowing it to hold up to hurricanes, intense storms, land-to-sea vehicles and more. To ensure operation in versatile environments, the LEDXUL-4E-IR is constructed of stainless steel hardware (including mounting brackets) and a heavy-duty billet aluminum CNC machined housing. The lens is made out of shatter resistant polycarbonate with a one-piece front lens cover and o-ring lens gasket. To prevent moisture from entering the power cable, the wiring of the light uses a potted power connector.

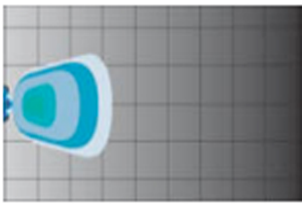
LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive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

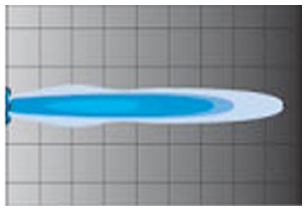
Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating 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 42V DC 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 commercial boats, heavy equipment and vehicles where power systems don`t always operate with 12 volts and external generators, transformers or inverters are impractical.

LEDXUL-4E-IR 35° Flood Beam



LEDXUL-4E-IR 10° Spot Beam



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 Edixeon® IR 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: This light bar is equipped with stainless steel mounting brackets which slide within the aluminum housing to allow users to adjust their positioning to match existing or user drilled mounting holes. Each stainless steel bracket 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. We also offer a BC-2 bar clamp mounting system you can view here for even greater mounting versatility.
Suggested Applications: Military, security, freshwater, saltwater, above water, extreme weather environments, marine settings, boats, docks, monitoring systems, rugged locations, and more.
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. You can review the Deutsch connector technical details here.
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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Product ID: 278616

Warranty: 36 Months

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

Options:

LEDXUL-4E-IR-Wavelength-Beam Pattern

Example: LEDXUL-4E-IR-750NM-SP

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

Beam Pattern	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**