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LED3W-2R-IR

Infrared LED Light Emitter 750/850/940nm - 9-42VDC - 280'L X 45'W IR Beam - Adjustable Surface Mount

Product ID: 47097

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.

LED Light Bar contains two 6-watt high powered Infrared LEDs providing 6 watts of LED light power, producing 360 lumens of LED light and drawing only .5 amps on 12 volts. This LED emitter light runs on any voltage ranging from 9 Volts to 32 Volts. Note that this fixture`s beam can only be seen through the use of night vision goggles. 750nm, 850nm or 940nm versions (with 940nm, military grade night vision equipment is required). In Spot configuration, this Infrared fixture would emit an IR beam 280` in length by 45` in width.

BUY AMERICAN COMPLIANT

This LED light emitter bar runs on any voltage ranging from 9 Volts to 42 Volts DC. This means that you can power this and visible LED emitter light from any vehicle, equipment, ATV or boat electrical system. You do not need anything special to operate these multi-voltage units, as an internal voltage regulator controls the power to the LEDs.

There is a one foot pigtail attached to the LED light terminated in a 2 pin Deutsch plug. A wiring harness attaches to the Deutsch socket on the back of the LED light. The harness is terminated in a 2 pin Deutsch plug and includes 20 feet of cable, a relay and a toggle switch that will operate on 12 or 24 volts. The wiring harness is not necessary for installation.

Operators can use existing wiring and switches, assuming they are rated for the amperage listed below.
A hinge style mounting bracket enables the operator to affix one portion of the hinge bracket to the mounting surface. Then, the operator can set the angle and attach the upper portion of the hinge style mount to the light. The operator can then adjust the hinge bolt, once the desired angle is set.
Spot Beam Optics Angle: 10 degrees (create a narrower, longer, distance oriented beam)
Flood Beam Optics Angle: 35 degrees (creates a shorter, wider, diffused beam)
Click here to see more information on the spot (narrow) and flood (wide) lens used in this LED light.
SPECIFICATIONS:
Length: 5.2 inches
Height: 2.75 inches
Depth: 2.5 inches
Weight: 1.7 pounds
Number of LEDs: 2
Individual LED Watts: 3 watts/each
LED Maximum Lumen Output: 180 lumen per LED
LED Type: Seoul P7
Total LED Watts: 6
Volts: Accepts input voltage 9-32 Volts DC
Amps: .5 (on 12 volts) 0.25 amps (on 24 volts)
Lumens: 1800 total
IR Wavelength: 750nm, 850nm or 940nm
CRI: 70
Housing Color: black or white available. Specialty colors available on request. Powder coat finish.
Housing material: Aluminum
Ambient Operating Temperature Range: -45° C to 85° C
Storage Temperature Range: -45° C to 100° C
Ingress Protection Rating: IP67 (water tight and dust tight)
Mean Lens Temperature: 83° F
Mean Housing Temperature: 99° F

LUX measurements:
At the Lens: 176,900
At 1 Meter: 11,270
Lens Temperature: 77 degrees F
Mounting Type: Hinge mounting for 180° of possible position angles

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Frequently Asked Questions (FAQ)

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LED3W-2R-IR
Product ID: 47097

Warranty: 36 Months

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

Options:
LED3W-2R-IR-Beam Pattern-Wavelength-Housing Color
Example: LED3W-2R-IR-S-750-BLK

Beam Pattern	
SPOT	-S
FLOOD	-F

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

Housing Color	
BLACK	-BLK
WHITE	-WHT

Links (Click on the below items to view):

- **CE Certificate**
- **MSDS (Material Safety Data Sheet**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **Spectrum Curve (Wavelength Graph)**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**