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LEDLB-24ET-IR-PT-1227

Infrared LED Emitter Light - 24 LEDs - 120-277V AC - Extreme Environment - Pole Top Mount

Product ID: 149434

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-24ET-IR-PT-1227 Light Bar

LEDs: 24 Edixeon® 3 Watt IR LED Emitters
Dimensions: 8.25"-L 5.27"-H 3.57"-D
Watts: 72

Voltage: 120-277V AC
Spot Beam: 900`L x 100`W
Flood Beam: 300`L x 280`W

Weight: 7.75 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Pole Top Mount

Wiring: Deutsch IPD / LADD DT04-2P connector

Lumens: 4320

LED Light Color: Infrared- 850Nm or 940Nm
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%

Materials: Aluminum Housing, Polycarbonate Lens

Housing Colors: Black or White

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

Buy American Compliant

The Larson Electronics LEDLB-24ET-IR-PT-1227 Light Bar offers high infrared light output and extreme durability combined with a versatile trunnion mounting system that provides 270 degrees of adjustability. This IP68 rated infrared LED light bar is waterproof to three feet and produces a 4,320 lumen infrared light beam 900` long by 100` wide light that can only be seen through the use of night vision goggles. 850Nm versions have a very slight red glow around the LED emitters when viewed from a certain angle while 940Nm versions are completely invisible to the naked eye.

Click here to see the LED version of this

The LEDLB-24-ET-IR infrared LED light bar from Larson Electronics offers Pulse Width Modification control and produces light in the infrared 850Nm or 940Nm end of the light spectrum depending upon the version selected. In spot configuration this infrared LED emitter produces a 900` long by 100` wide infrared beam of light with a tight focus and moderate beam spread. In flood configuration this infrared LED light produces a wide spread infrared beam concentrated much closer to fixture. Twenty-four Edison Edixeon® 3 watt infrared emitters producing 180 lumens each are arranged in rows and paired with high purity 10 degree optics to produce a tightly focused spot beam 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.

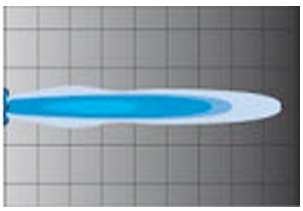
This LED light bar features an adjustable swivel bracket constructed of 3/8" aluminum that allows 270° of adjustment and is attached to a slip fit yoke for easy installation. The slip fit yoke is built to customer`s specs, enabling operators to mount this luminary to their specific pole size.

These LED light bars are IP68 rated and waterproof to 3 feet, sealed against intrusion by dust and dirt and very ruggedly constructed to withstand the most demanding environments, conditions and applications. The entire Larson Electronics LEDLB 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. This light is equipped with a trunnion mounting bracket that allows operators to adjust the light fixture through 270 degrees of movement.

LEDLB-24-ET-IR 35° Flood Beam (Opt)



LEDLB-24-ET-IR 10° Spot Beam (Stnd)



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.

PWM Control: The pulse width modulation drivers in this unit also provide secondary benefits through the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDP5W-30 series light bars can operate on current ranging from 120 to 277VAC without any modifications necessary as a result. This ability to sense and adjust input current also provides protection against voltage spikes and drops that can occur in vehicle electrical systems which would otherwise result in burning up or premature LED failure without it.

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 designationare are designed for extreme durability and are larger and heavier than the standard LEDLB series lights and are 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.
Mounting: This unit features an adjustable swivel bracket constructed of 3/8" aluminum that allows over 270° of adjustment and is attached to a slip fit yoke for easy installation. The slip fit yoke is built to customer`s specs, enabling operators to mount this LED light to their specific pole size. For example, selecting a 2" OD mount means that the yoke mount will fit onto pipes or bull horns with a 2" OD.you can view here for even greater mounting versatility.
Voltage: The drivers in this unit provide the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These light towers can operate on current ranging from 90 to 305V AC or 127 to 431V DC without any modifications necessary as a result. This ability to sense and adjust input current also provides protection against voltage spikes and drops that can occur in electrical systems which would otherwise result in burning up or premature LED failure without it.
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)








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LEDLB-24ET-IR-PT-1227

Product ID: 149434

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LEDLB-24ET-IR-PT-1227-Wavelength-Beam Pattern-Housing Color

Example: LEDLB-24ET-IR-PT-1227-750NM-SP-BLK

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

Beam Pattern	
SPOT	-SP
FLOOD	-FL

Housing Color	
BLACK	-BLK
WHITE	-WHT

Links (Click on the below items to view):

- CE Certificate
- Dimensional Drawing 2D
- Eye Safety Information/Certificate
- Military Specification Certificate 1
- MSDS (Material Safety Data Sheet
- RoHS Certificate (Restriction of Hazardous Substances)
- STEP File (3D CAD Model)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map