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LEDWL-ZN-CN-90WRE-RED-50H

90W High Intensity Pedestrian Warning LED Light - 12-32V DC - 6" x 24" Red Beam @ 50ft - Crane Operations

Product ID: 265679

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

Image: LEDWL-ZN-CN-90WRE-RED-50H

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.

LEDWL-ZN-CN-90WRE-RED-50H Pedestrian Warning Light

Unit Type: Crane Safety Light
Lamp Technology: Cree LED
Dimensions: 8.7"L x 7.93"W x 10.57"H
Weight: -
Voltage: 12-32V DC
Total Watts: 90W
Total Lumens: 5,950 lms
Luminous Efficacy: -
Lamp Life: 50,000+ Hours
LED Color: Red
Color Rendering Index: -
Lamp Type: -
Lamp Base: -
Replacement Lamp: -
Beam Type: Red Zone Line
Beam Profile: 6"-W x 24"-L @ 50` (Height)
LED Drive: 90%
Power Factor: -
Amps: 7.5 @ 12V DC, 3.75 @ 24V DC
Ambient Operating Temp Range: -40° C to +85°C

Ratings/Features

Pedestrian Safety
LED Zone Lights
IP68 Waterproof

Special Orders - Special Requirements

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Housing Material: Aluminum
Housing Finish: -
Lens Material: Polycarbonate Lens
Mounting: Adjustable Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector

Contact us for special requirements
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The Larson Electronics LEDWL-ZN-CN-90WRE-RED-50H High Intensity Pedestrian Warning LED Light is ideal for illuminative safety during crane operations and in busy work sites, such as warehouses and delivery bays. This 90-watt ultra compact LED light produces 5,950 lumens of red light during operation. The low voltage safety light operates on 12-32V DC.

The LEDWL-ZN-CN-90WRE-RED-50H is a powerful LED zone light for cranes and operational safety in industrial facilities. This solid-state light produces 5,950 lumens of red light while drawing less than 8 amps from a 12 volt electrical system. At a height of 50 feet, the LED lamp provides a 6" wide x 24" long beam configuration. The red light is highly visible during the day and is recommended for supporting crane operations. This particular unit is ultra compact at 8.7" OD (lamp head) and 10.57" tall with the mounting bracket, which makes it ideal for applications where electrical power and mounting space is at a premium.

Durability: This LED light offers IP68 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40 degrees Celsius to 85 degrees Celsius, are waterproof to three meters and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum and the lenses are unbreakable polycarbonate. The CREE LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units contain advanced drivers which use pulse width modulation to control heat buildup rather than simple voltage regulators which are typically harsh on sensitive electronics and can contribute to early LED failure. These units automatically sense the temperature of each LED and adjust the energy frequency or “duty cycle” accordingly to maintain heat levels within acceptable ranges. This system in essence flashes current at an extremely fast on and off rate to each LED based upon the LED’s core temperature. This flash rate is too fast to detect with the human eye, but provides precise control of the current flowing to each LED and thus the heat it generates. This allows the LEDs to be driven at up to 100% capacity without overheating or visible loss of light output. The LEDs are always driven at the same voltage but the duty cycle, however, is changed to alter how long the LEDs are actually on or off. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 50,000 hours.

Voltage: 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. The LED light can operate on current ranging from 12 to 32V 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 vehicle electrical systems which would otherwise result in burning up or premature LED failure without it.

Mounting: This unit is suspended within a form-fitting trunnion (yolk-type) mount. The trunnion mount has two knurled knobs that can be loosened, allowing the LED light to be adjusted and then re-tightened to lock the light into any desired position once mounted. A single stainless steel stud protrudes from the bottom of the mount, enabling the operator to install the crane safety light using a simple through-hole mount. This allows the unit to be installed anywhere a 1/2" hole can be drilled.

Note: Most Larson Electronics LEDLB, LEDP3W, LEDP10W, LED10W, and LEDP WRE series LED spotlights and floodlights are terminated with a Deutsch IPD / LADD DT04-2P connector. The mating connector plug is DT06-2S. Most LEDLB, LEDP10W 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.

Applications: Pedestrian safety, forklift operations, zone lights, warehouses, compact vessels, carts, illuminative safety, industrial buildings and more.

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)

There are no Faqs

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

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- **Beam Information (Coverage, Datafile)**(https://www.larsonelectronics.com/images/product/BeamInfo/265679.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/265679.JPG)
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