25W Red Crane LED Warning Light - 2250 Lumens - 9-60V DC - Pedestrian Warning Safety Light - IP67
Part #: LEDWL-CRN-RED
The LEDWL-CRN-RED Round Red LED Light Fixture is ideal for several uses including industrial manufacturing applications and overhead crane safety. This ultra compact LED light produces a 2,250 lumen output with low amp draw, 50,000 hour service life, and 9 to 60 volt compatibility providing operators with a versatile and powerful warning safety light.

The LEDWL-CRN-RED Round Red LED light from Larson Electronics produces 2250 lumen of sharp red light while drawing 2.09 amps from a 12 volt electrical system. Five 5-watt red LED producing 450 lumens each are combined with high output parabolic reflector to produce a narrow 5° spread spot beam, providing a high intensity center beam which is visible during daytime and nighttime operations. This particular unit is ultra compact at only 6" tall by 3.91" wide by 3.36" deep, which makes it ideal for applications where electrical power and mounting space is at a premium.

Standard warning systems consist of strobe lights or audible alarms. Strobe lights may not always be visible with high illumination settings. The strobe lights on cranes and vehicles, depending on the position of the light, can be a hindrance to the operator by reducing the visibility due to continual contrasting from the strobe light. Audible alarms, such as backup alarms, are the most disliked warning system systems, especially operators and pedestrians within work forces that have to listen to this alarm continually throughout the work day. Both strobe lights and audible alarms are often ignored due to conditioning of the warning system from day to day exposure. The LEDWL-CRN-RED addresses both the above issues, providing a new system that is not obnoxious and will not get on the nerves of employees, while providing the warning indication required by OSHA to keep employees and pedestrians within the work force safe.

**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.

**LED Drivers:** Even in LED fixtures, heat is the single largest factor in premature light failure and color shifting. As a result, many manufacturers reduce the output of their LEDs in order to reduce the amount of heat produced. Rather than lower light output or quality, Larson Electronics addresses this problem with the addition of an electronic LED driver. This internal driver provides the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. This not only reduces the energy dissipation, effectively lowering the operating temperature of the fixture, but also prevents AC over-voltage and short circuit loading making this fixture virtually maintenance free. Because the electronic driver allows the LEDWL-CRN-RED to run at a cooler internal temperature and regulates the electrical current, energy efficiency and LED service hours are maximized while at the same time reducing operating costs and downtime incurred from the frequent servicing intervals required with other hotter running lights.

**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:** 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 LED lights can operate on current ranging from 9 to 60V DC without any modifications necessary as a result. (347-480V AC and 120-277V AC available upon request). 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.

**Durability:** As well as unparalleled heat control, the LEDP WRE series of LED lights from Larson Electronics also offer 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 XLamp XM-L® LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use.

**Mounting:** The LEDWL-FKLT-RED is suspended within a form fitting trunnion (yolk-type) mount. This 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 light using a simple through-hole mount, allowing the unit to be installed anywhere a 1/2-inch 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.

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.
Specifications / Additional Information

**LEDWL-CRN-RED LED Light**

**Lamp Type:** Red LED

**Dimensions:** 6"-H x 3.91"-W x 3.59"-D

**Weight:** 2 lbs

**Voltage:** Universal 9-60V DC

**Watts:** 25W

**Lumens:** 2,250

**Luminous Efficacy:** 90 Lm/W

**LED Lamp Life Expectancy:** 50,000 hours

**LED Light Color:** Red

**Lighting Configuration:** 5° Spot Beam

**Ambient Operating Temperature:** -40°C to +85°C

**Optic:** PMMA

**Housing Material:** Aluminum

**Lens Material:** Polycarbonate

**Mounting:** U-bracket style trunnion with tension bolt

**Wiring Hub:** Deutsch IPD / LADD DT04-2P connector

**Ratings/Approvals**

- IP67 Waterproof to 1 Meter
- Impact/Vibration Resistant
- Shatterproof Lens
- Ambient Op Temp -40°C to +85°C
- Warn Pedestrians of Oncoming Vehicles
- Visible With High Illuminate Warehouse Lighting

**Special Orders- Requirements**

- Contact us for special requirements

**Toll Free:** 1-800-369-6671

**Intl:** 1-903-498-3363

**E-mail:** sales@larsonelectronics.com

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Part #: LEDWL-CRN-RED (106239)
Links (Click on the below items to view):

- Manual
- BeamInfo
- Hi-Res Image 1 - Red LED Safety Warning Spotlight
- Hi-Res Image 2 - Red LED Safety Warning Spotlight
- Hi-Res Image 3 - Red LED Safety Warning Spotlight
- Hi-Res Image 4 - Red LED Safety Warning Spotlight
- Hi-Res Image 5 - Red LED Safety Warning Spotlight