Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

LEDWL-FKLT-BLUE-250VDC

25W Blue Forklift LED Warning Spotlight - 2250 Lumens - 250V DC - Blue Pedestrian Safety Light

Product ID: 287147



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-FKLT-BLUE-250VDC LED Light
Lamp Type: Blue LED
Dimensions: 6"-H x 3.91"-W x 3.59"-D
Watts: 2 lb
Voltage: 250 V DC
Watts: 25W
Lumens: 2,250
Luminous Efficacy: 90 Lm/W
LED Light Color: Blue
LED Life Expectancy: 50,000 Hours

Led Drive %: 90%

Lighting Configuration: Combo 10° Spot & 60° Flood

Amps: 0.1 A @ 250 V DC
Ambient Operating Temp Range: -40° C to +80°C
Housing Material: Die Cast Aluminum
Housing Colors: Black
Lens Material: Polycarbonate

Reflector: Parabolic

Mounting: Adjustable Trunnion Bracket / Stud Mount

Wiring: Deutsch IPD / LADD DT04-2P connector

Internal LED Driver Features
Fast average current control
Short Protection w/ Skip Mode
Ambient Op Temp -40C to +85C
Pin-Compatible with the HV9910B
Warn Pedestrians of Oncoming Forklifts
Visible With High Illuminate Warehouse Lighting
ESD (Electrostatic Discharge) Safe
CE Certified
EMC Certified

EMI Certified
View Avg-Mode Driver Control PDF

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

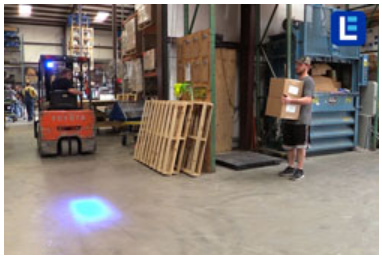
The LEDWL-FKLT-BLUE-250VDC from Larson Electronics is a Forklift Warning Spotlight that is designed to warn pedestrians and bystanders when in the path of an oncoming forklift. This ultra compact LED light produces a 2,250 lumen output with low amp draw, 50,000 hour service life, and 230 V DC

operation providing operators with a versatile and powerful forklift warning safety light.

The LEDWL-FKLT-BLUE-250VDC Blue LED Forklift Safety Light from Larson Electronics produces 2250 lumens of sharp blue light while drawing 0.1 amps from a 250 V DC volt electrical system. Five 5-watt blue LED producing 450 lumens each are combined with high output parabolic reflector to produce a narrow 5° degree 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.


Click Photo to Enlarge


Click Photo to Enlarge


Click Photo to Enlarge

Standard forklift warning systems consist of strobe lights or audible alarms. Strobe lights may not always be visible with high illumination settings. The strobe lights on forklifts, depending on the position of the light, can be a hindrance to the forklift 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 for forklifts, 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-FKLT-BLUE 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.

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 250 V DC without any modifications necessary as a result. (347-480 V AC and 120-277 V 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.

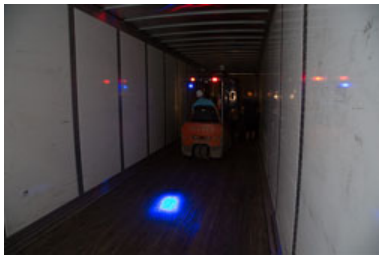
Durability: The LEDWL-FKLT series LED lights Larson Electronics offer IP67 rated construction that is designed to withstand the rigors of demanding of environmental and operating conditions yet are lighter and smaller than our LEDLB-E series of extreme duty light bars. The this series is designed to provide a low profile, light weight, high performance light bar that can be mounted where other lights will not fit. These units can operate in temperatures of -40° Celsius to 80° Celsius, are waterproof to 1 meter and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum and the lenses are unbreakable polycarbonate. The LEDs offer inherent LED resistance to shocks and vibrations contributing to these units 15.6Grms rating of vibration tolerance.

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. 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.



Click Photo to Enlarge

Mounting: The LEDWL-FKLT-BLUE-250VDC 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.



Frequently Asked Questions (FAQ)