100W EXP LED Light - 14,000 Lm - Cart Mount - Quick Change Mount - C1D1 - 100' 12/3 SOOW - Inline Instruction Manual

This explosion proof wheelbarrow light is designed for illumination of industrial locations. It uses the latest in solid state lighting technology for long life, low maintenance and high efficiency.

The unique design focuses the light where it is needed, giving improved efficiency over a conventional HID luminaire.

An internal, universal input, power-factor-corrected switch-mode supply allows it to be used from any nominal 120-277V AC 50/60Hz, stepped down to 24V DC, power supply without any variation in light output.

WARNING

To avoid the risk of fire, explosion or electric shock, this product should be installed, inspected and maintained by a qualified electrician only, in accordance with all applicable electrical codes.

To avoid electric shock:

- Be certain electrical power is OFF before and during installation and maintenance.
- Luminaire must be connected to a wiring system with an equipment-grounding conductor.

To avoid explosion:

- Make sure the supply voltage is within the luminaires' voltage rating.
- Ensure the marked T rating is less than the ignition temperature of the Hazardous Atmosphere.
- Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
- Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.

The light fixture on this wheelbarrow cart is factory sealed.

CART OPERATION

The wheelbarrow cart assembly consists of 2 parts:

1. Light head
2. Wheelbarrow cart base

- To assemble cart, insert light head over center hole of wheelbarrow cart and tighten hand screw. The wheelbarrow cart is now ready for use.
- Tilt cart using both handles and maneuver like a wheelbarrow. Simply roll entire assembly to a new location once assembled. Make sure light head is secure prior to maneuvering cart.

WARNING: *Be sure all hand screws are tight before transporting! Use caution when maneuvering near inclines or drop offs.*

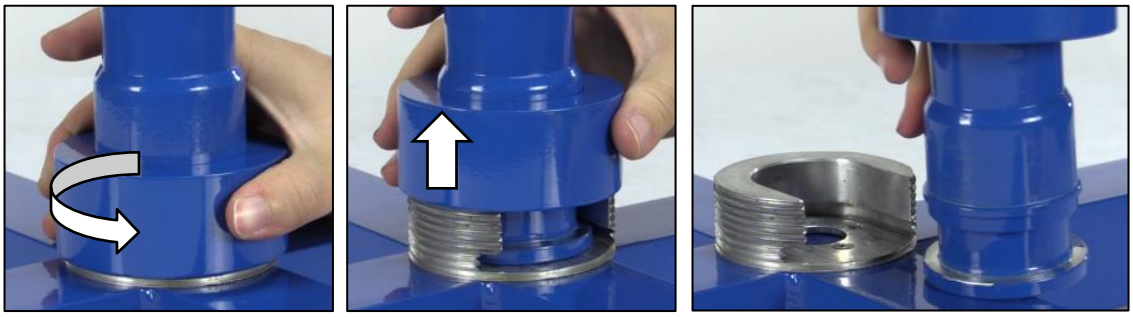
- Run power cord to a nearby receptacle outputting voltage listed on product label.

WARNING: *check nameplate for proper voltage. Damage from improper voltage may void warranty.*

- To adjust light head vertically, loosen hand screws on either side. Once desired angle is achieved, tighten both hand screws to secure light in its place. Loosen the single hand screw holding light head to rotate horizontally. *Be sure all hand screws are tight before transporting!*

MOUNTING

The quick change mounting system allows for quick mount and dismount from the mounting base. To remove, loosen the center collar towards the base of the mount to free the base in order to remove it from the cart. Twist counter-clockwise until loose, lift collar and slide light head away from the base. Follow these steps in reverse order for attaching light head.

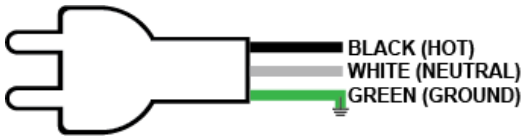


WIRING (see attached wiring diagram)

This unit comes preconfigured with selected cord cap, color temperature, and beam angle. Once deployed, plug cord cap into compatible receptacle.

Voltage: The C1D1 explosion proof step-down transformer installed in-line 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. These transformers 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. The inline transformer then steps down the input voltage to 24V DC to power the explosion proof light. We also offer an additional 347-480V high voltage, 125-250V DC, and 0-10V dimmable versions of this explosion proof LED light fixture.

Follow all applicable local, state, and National Electrical Code for the hazardous area!



FOR PROPER VOLTAGE. DAMAGE FROM IMPROPER VOLTAGE WILL

MAINTENANCE

Caution: To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.

This explosion proof LED light fixture is field serviceable. All major internal components can be purchased from Larson Electronics and installed by a licensed electrician with basic tools. With most explosion proof fixtures, the fixture must be returned to the manufacturer for repair work, which presents downtime and long turn around times for repair work. Larson Electronics addresses this issue with the Iron X series with field serviceability, allowing operators to perform service work without having to return the fixture to the manufacturer in the event of damage or failure.

1. Perform visual, mechanical and electrical inspections on a regular basis. We recommend routine checks to be made on a yearly basis. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B: Recommended practice for Electrical Equipment.
2. The lens should be cleaned periodically as needed to ensure continued photometric performance. Clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap or a liquid cleaner.
3. Inspect the cooking fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.
4. Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.