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100 Watt Gooseneck Trailer LED Light Bar - 12-32V DC - 1000ft Long Spot Beam

LLP-GNT-4X25WRE

The LLP-GNT-4X25WRE Gooseneck Trailer LED Light Bar is ideal for operators who need high-output illumination to load and unload their trailers at night safely. This bolt-on light bar is fitted with four ultra-compact LEDP WRE series LED light fixtures, which produce 2750 lumens each, with low voltage and low amp draw. These LEDs have a 50,000 hour service life 12 to 32 volt compatibility providing trailer operators with a versatile and powerful LED lighting solution for nighttime operations.

The LLP-GNT-4X25WRE Gooseneck Trailer LED Light Bar from Larson Electronics is a pre-wired, ready to bolt-on light bar consisting of four, independently adjustable 25 watt LEDP WRE series LED lights. The LEDs produce 2750 lumens of bright light each, for a total of 11,000 lumens, while drawing less than 2.25 amps from a 12 volt electrical system. Combined with high output reflectors, these light heads produce a narrow 10 degree spread spot beam approximately 1000’ long combined with a 60° flood beam. This combination spot and flood beam provides both distance and width from each lamp. Because each lamp head is independently adjustable both vertically and horizontally, operators can position the lamps to create illumination that surrounds the vehicle for clear sight while loading and unloading equipment at night. The LED lights are waterproof to 3 meters, sealed against intrusion by dust and dirt and very ruggedly constructed to withstand the most demanding environments, conditions and applications. The lights are wired to the junction box and powered by the tow vehicle, and connected with heat shrink butt connectors which offer protection and reliability. An angle conduit protects the light’s wiring, and a toggle switch is mounted to the light bar, allowing easy access from the trailer deck or the ground.

The custom made light bar bracket for the LLP-GNT-4X25WRE fits on the channel cross-members between risers on the gooseneck, and is 12” tall x 42” wide x 4” deep. The entire assembly, including the 1 ½” mandrel bent round tube protective bar and lower frame, is constructed of 3/16” powder coated steel for durability and to protect the 4 LEDs. The assembly includes 9 feet of wiring for simple two-wire installation and zinc plated hardware.

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 LEDP WRE series LED lights 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 LED fixtures are also able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDP WRE series LED lights can operate on current ranging from 12 to 32VDC 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: 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 LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,0000 hours of use.

Mounting: The LLP-GNT-4X25WRE Gooseneck Trailer LED Light Bar comes prewired and is installed using included bolts, nuts and washers with user supplied cordless drill, 3/1" drill bit, ½" wrench, screwdriver and pliers. Installation should take approximately 30 minutes.

Links (Click on the below items to view):

- SpecSheet

- SpecSheetSpanish

- High Res Pic 01 - 100 Watt Gooseneck Trailer LED Light Bar - 12-32V DC - 1000ft Long Spot Beam