

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



This unit is Made In USA - Manufactured in Texas
WCDE-LM-30-HZ-4X400LTL-LED-EW-SM Horizontal Light Tower

Genset Specs:

Genset: Kubota GL7000TM
Engine: Kubota Z482 10.9 HP
Engine Type: Vertical, liquid-cooled, 4-cycle diesel engine
Engine Speed: 3600 RPM
No. of Cylinders: 2
Generator: 7KW 2-Pole Brushless
Voltage: 120/240V Single Phase
Battery: 12V @ 28aH
Fuel Cell Capacity: 28 Gallons
Sound Level: 66 dB - Full load @ 23' away
Cold Weather Package: Yes -Factory Included

Light Mast Specs:

Length: 17 feet - 30 feet
Weight: 400 lbs
Capacity: 125 lbs
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: Electric Motor / Lead Screw

Mounting: Weighted Steel Skid Base

LED Light Specs:

Lamp Type: Bridgelux® LED
Total Watts: 1,600 (400W per lamp)
Total Lumens: 216,000 (54,000 per lamp)
Luminous Efficiency: 135 lm/w
LED Color Temperature: Cool White - 5500-6500K
LED Life Expectancy: 80,000 hours
Optics Efficiency: 98% - PMMA High Transmittance Optics
Led Drive %: 90%
Power Factor: >97%
Mounting: Flat Surface Trunnion Mount U-Bracket
Materials: Die Cast Aluminum Housing, Acrylic Optics
Housing Color: Natural Aluminum
Ambient Temperature Range: -40°C to +80°C
Waterproof Rating: IP67

Shipping: Common Freight

Shipping Weight: call for estimate

Options: Length- Mounting-Fixtures/ Call Us for Special Requirements

Quick Summary

7KW Kubota Brushless Genset
28 Gallon Fuel Tank
17/30 Ft Light Mast
Steel Construction
Electric Operation
Counterweight arm
High Output LED Lamps
Extreme Area Coverage
Direct Replacement for (4) 1000W MH Light Plants
1,600W LED compared to 4000W MH
216,000 Total Lumen Output
Independently Adjustable Light Heads
Dial-in Adjustability per light head
98% Transmission High Purity PMMA Optics
Multiple LED Banks for Heat Dispersion
135 Lumens Per Watt Efficiency
70% Lumen Retention after 80,000 Hours
Switched Breaker System per Lamp Head
Removable Mast Head & Light Fixtures
IP67 Waterproof LED Fixtures
Self Contained Lighting Unit
UL 508A

Special Orders- Requirements

Contact us for special requirements

Phone: 1-214-616-6180

Toll Free: 1-800-369-6671

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

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The Larson Electronics WCDE-LM-30-HZ-4X400LTL-LED-EW-SM Stand Alone Horizontal Light Mast with Weighted Skid Base and diesel genset provides a safe and effective way for operators to quickly deploy four equipped LED lights to lengths up to thirty feet. The four 400 watt LED lamps included with this unit produce a combined total of 216,000 lumens and is a direct replacement for 800 watt metal halide light plants.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO LIGHT MASTS OR LIGHT TOWERS

Larson Electronics' self contained skid mounted horizontal steel light tower mast is designed to allow operators to quickly and safely deploy lighting and other electrical equipment in locations where this equipment must be extended to lengths up to 30` for effective application. This two stage light boom can be extended to 30` for maximum area coverage and retracted to 17` when not in use. The tower is constructed of square steel tubing with a stationary section 17` in length and 4" by 4" by 1/8" thick and a telescoping section 13` feet in length and 3 inches in diameter. The mast is extended and retracted using an included electric motor and lead screw. Mast is built onto a skid base to aid in transportation and deployment. A 7KW diesel genset is mounted to the skid base, allowing for this unit to operate without auxiliary power in remote locations.

Lights: The lighting system on this unit is comprised of four of our [GAU-LTL-400W-LED](#) 400 watt LED lamps producing 54,000 lumens of light each attached to the end of the telescoping pneumatic light boom. These floodlights produce a wide flood light pattern with a combined total of 1,600 watts and 216,000 lumens of light. The GAU-LTL-400W-LED lights are ideal replacements for fragile and hot running 800 watt metal halide lamps, offering increased durability, longer lamp life, and lower power consumption. The entire lighting assembly is connected to the power source via a 4-switch control box. Each light head is on an individual circuit and can be powered on or off independently of the other light fixtures.

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Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units feature individual heat sinks per bank of six LEDs to control heat buildup rather than utilizing a single housing to dissipate heat. This allows for more thorough cooling of the LEDs for extended operating periods. This allows the LEDs to be driven at up to 90% capacity without overheating or visible loss of light output. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 80,000 hours. In addition, should an LED failure occur, these LED flood lights are field serviceable. Each bank of six LEDs can be replaced with the fixture installed. This allows for the tower to stay in operation until repairs can take place, and eliminates the need to remove and disassemble the entire fixture for repairs.

Durability: As well as unparalleled heat control, the GAU-LTL-400W-LED series of LED lights from Larson Electronics also offer IP67 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40° Celsius to +80° Celsius, are waterproof, and resist ingress of dust, dirt and humidity. The housings are formed from die cast aluminum and the optics are high transmission PMMA with 98% light transmittance. The Bridgelux® LEDs help these units achieve resistance to vibrations and are rated at 70% lumen maintenance after 80,000 hours of use. We use these LED lights for applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.

Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. 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 applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler

than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

Genset: The WCDE-LM-30-HZ-4X400LTL-LED-EW-WB horizontal light tower includes a Kubota Lowboy II GL7000TM genset that houses a Kubota Z482 diesel engine that powers the 7KW 120/240V brushless generator. This genset is liquid cooled and features a single phase generator with electric start ignition. The diesel generator runs at 3600 RPM and is equipped with an EPA/CARB Tier 4 emissions system. A 28 gallon fuel cell sits inside the genset. This genset features key operated electric starting, a twelve volt electrical system, liquid cooling, replaceable dry element air cleaner, and a full enclosure for safe operation and protection against the elements. This engine also features cold weather options to improve performance under cold weather conditions.

The tower and assembly is powder coated with glossy blue finish for corrosion resistances and aesthetics. This mast is bolted onto weighted steel plate with skid pockets allow this unit to be picked up from sides. A pivoting support leg extending from stationary stage provides increased stabilization for the mast and equipment during operation. A 44" wide and 2" by 2" by 1/4" thick mounting plate is attached to the telescoping section of the mast which provides a strong and stable platform for the the 400 watt LED light fixtures. The weighted skid base is the first point of contact and the pivoting weight arm is the second point of contact. This reduces the amount of counterweight necessary.

This light tower can easily support and lift 125 lbs fixtures. The entire tower assembly is shipped via common freight carrier and when shipped measures approximately 15 feet long, 4 feet wide, 3 feet tall.



Frequently Asked Questions (FAQ)



Links (Click on the below items to view):

- [ISO 9001 Certification](#)
- [Business Certificate](#)