

30' Horizontal Light Mast - 4x 480W LED Lights - 3KVA XFMR - 600V Input - Electric Winch - Skid Base

LM-30-HZ-4X400LTL-LED-EW-3KVA-600V

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



LM-30-HZ-4X400LTL-LED-EW-3KVA-600V Horizontal Light Tower

Light Mast Specs:

Length: 22 feet - 33 feet

Weight: 3500 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: Cree® 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

Line-In Voltage: 600V

Transformer: 3 KVA N3R

Shipping: Common Freight

Dimensions: 288" x 72" x 72" @ 3500lb & 48" x 40" x 40" @ 200 lbs

Shipping Weight: 3500 lbs + 200 lbs

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

Quick Summary

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 800W 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

600V Line-In Power

NEMA 3R Transformer

UL 508A

UL1640

Special Orders- Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics LM-30-HZ-4X400LTL-LED-EW-3KVA-600V Horizontal Light Mast with Weighted Skid Base provides a safe and effective way for operators to quickly deploy four equipped LED lights to

lengths up to thirty feet. This unit is equipped with a 3 KVA NEMA 3R transformer that accepts 600V primary input voltage. 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' 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.

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 are 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 Cree® 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.

[Skid Pockets Allow for Easy Mobility](#)

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 support leg extending from the end of the 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 support arm is the second point of contact. This reduces the amount of counterweight necessary.

Wiring: 600V supply power is brought in via customer provided line-in cable to the skid mounted 3KVA NEMA 3R transformer. The 3KVA transformer steps down the 600V supply power to appropriate voltage required on the secondary side to operate the mast electronics and light fixtures. The transformer, panels, and all electrical components are listed for use in United States and Canada by NRTL. This light tower weighs approximately 3500 lbs, can easily support and lift 125 lbs fixtures. The entire tower assembly is shipped via common freight carrier and when shipped measures approximately 24 feet long, 6 feet wide, 6 feet tall for the mast and will have a second skid at 48" by 40" by 40" weighing 200 lbs.



Frequently Asked Questions (FAQ)









Links (Click on the below items to view):

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