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

LM-30-3S-4X500W-LED

1920 Watt High Intensity LED Light Tower - Three Stage Mast - Extends up to 30 Feet - 259,200 Lumens

Product ID: 104714

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

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.

LM-30-3S-4X500W-LED Three Stage LED Light Tower
Lamp Type: Bridgelux® LED
Lamps: (4) 480 Watt LED Fixtures
Total Watts: 1,920 (480W per lamp)
Total Lumens: 259,200 (64,800 per lamp)
Luminous Efficiency: 135 lm/w
LED Life Expectancy: 80,000 hours
Optics Efficiency: 98% - PMMA High Transmittance Optics
Led Drive %: 90%
Lighting Configuration: Flood Pattern
Color Temp: 6000K
Ambient Temp Rating: -40°C to +80°C
Power Factor: >97%
Lamp Voltage: Universal 120-277V AC 50/60 Hz
Mast Length: 12 feet - 30 feet
Weight: +-600 lbs
Materials: Steel
Finish: Powder Coated - Gloss Blue
Voltage: Universal 100-277 VAC, 50/60Hz
Operation: (2) 2,500lbs Hand Winches, Electric Optional
Cable: 3/16 Aircraft Grade Galvanized Steel Cable
Mounting: 1/4" thick, 13"x15" Six Bolt Hole Bracket
Wiring: 45` SOOW Cable w/ Cord Cap
Shipping Weight: +-800 lbs

Mast Summary
12 to 30 Foot Light Mast
Steel Construction
Power Coated Finish
Removable Mast Head
125 mph Wind Resistance
Manual or Optional Electric Operation

LED Lamp Head Summary
High Output LED Lamps
Extreme Area Coverage
Direct Replacement for (4) 1000W MH Towers
2000W LED compared to 4000W MH
259,200 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
IP67 Waterproof LED Fixtures

Special Orders - Special Requirements
Contact us for special requirements

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Shipping: Common Freight

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

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

Made in the USA

The Larson Electronics LM-30-3S-4X500W-LED fold over light mast provides a safe and effective way for operators to quickly deploy 1,920 watts of intense LED lighting to elevations up to thirty feet. Four 480 watt high output LED lights produce a wide spread of intense white light, equivalent to a 4,000 watt metal halide light tower, allowing this unit to effectively cover large work areas with high quality illumination. This light tower folds over for easy transportation, features a rotating boom that allows for 360° of rotation, and a removable mast head for storing mounted equipment when not in use.

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

The LM-30-3S-4X500W-LED 1,920 watt telescoping steel light mast with 1,000 watt metal halide equivalent LED light heads from Larson Electronics' is designed to quickly and safely deploy 1,920 watts of intense LED lighting in locations where elevated illumination is needed for maximum area coverage. This light boom can be extended to thirty feet for maximum area coverage and collapsed to twelve feet for applications where a footprint smaller is required. The tower is constructed of square steel tubing with a lower section 11.27` in length and 4" by 4" by 1/8" thick, middle section 10.73` in length and 3" by 3" by 1/8" thick, and an upper section 10.63` and 2" by 2" by 1/8" thick. Each section has a 1` overlap minimum. The mast is elevated using an included 2,500 lbs hand winch with 3/16" galvanized steel cable and extended to its full height using a second 2,500 lbs hand winch.

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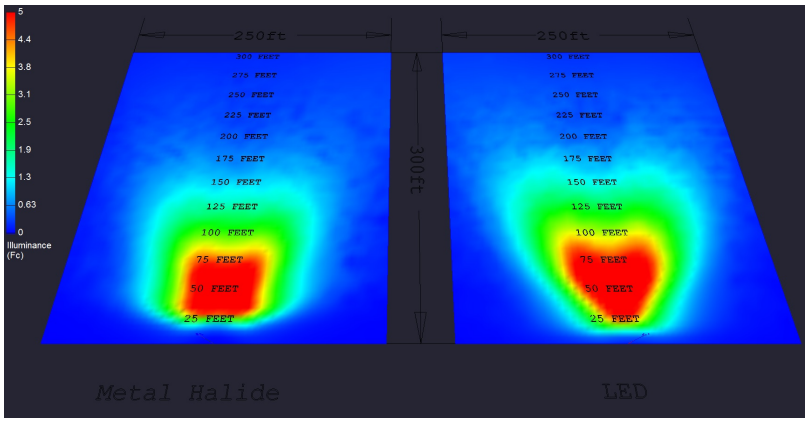
Lights: The lighting system on this articulating light mast is comprised of four our of GAU-LTL-500W-LED 480 watt LED lamps producing 64,800 lumens of light each attached to the end of the telescoping pneumatic light boom. These floodlights produce a wide flood light pattern with a combined total of 1,9200 watts and 259,200 lumens of light. The GAU-LTL-500W-LED lights are ideal replacements for fragile and hot running 1,000 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.

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-500W-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 80,0000 hours of use. We use these LED lights for applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.



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The above image shows the comparison of the traditional 4,000 watt metal halide light plant such as our LM-30-3S-4X1000W (left) to the LM-30-3S-4X500W-LED LED light tower. The area being illuminated by each tower is 300` in length and 250` in width. Unlike the metal halide light plant, there are no hot spots with the LED plant. This high output LED light plant provides an even beam spread over the targeted work area without overcast, glare, light spillage, and wasted illumination. Color rendering is also increased with LED light plants, providing a more realistic night vision that more closely resembles natural daylight illumination.

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.

Each floodlight is securely fastened to the mast head with an innovative trunnion style stainless steel mounting bracket that allows the light to be adjusted through 180° of vertical movement. The LED light head is secured to the mounting bracket with shock dampening rotating inserts. The insert provides precision aiming down to 1° while providing increased longevity to the LED fixture. To vertically adjust the unit after mounting, the user simply loosens the screws located on either side of the unit, moves it into the desired position, then re-tightens the screws. The base of the mounting trunnion is equipped with several machined slots which allow

users to utilize existing mounting holes and slide the unit for precise mount positioning.

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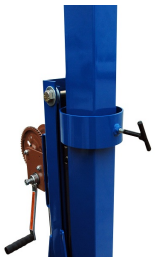

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The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. When lowered to 12 feet, the mast can withstand winds up to 125 mph. When elevated to its full upright position, the mast can be rotated a full 360°. By loosening the T-Handle, operators can rotate the mast with easy in either direction. The mast can be positioned in one of four different directions, and locked back in place by re-tightening the T-handle. The mast itself spins freely with easy, and can typically be rotated with a single hand.
The LM series of towers are powder coated with glossy blue finish for corrosion resistances and aesthetics. These light masts are typically mounted to trailers or other stable surfaces via a 15 inch by 13 inch, 1/4 inch thick mounting base-plate which has been drilled to accept six 5/8" anchor bolts. A 52" long mounting plate constructed of 2" by 2" by 1/4" thick carbon steel is attached to the upper section of the mast which provides a strong and stable platform for the four LED fixtures. This light tower weighs approximately 600 lbs, can easily support and lift 150 lbs fixtures. The entire tower assembly is shipped via common freight carrier and when shipped measures approximately 16.5 feet long, 4 feet wide, 5 feet tall and weighs approximately 1200 lbs. Larson Electronics can custom tailor these units to the customer's requirements with longer sections and larger mounting plates. We also offer a choice of either the manual 1,000 lbs hand winches included standard or optional electric winches.
Suggested Applications: With its easy deployment the LM-30-3S-4X500W-LED is ideal for use in applications that require regular intensive cleaning and are exposed to a lot of vibration, dust, dirt, where abusive working conditions are encountered, temporary lighting, and construction sites.

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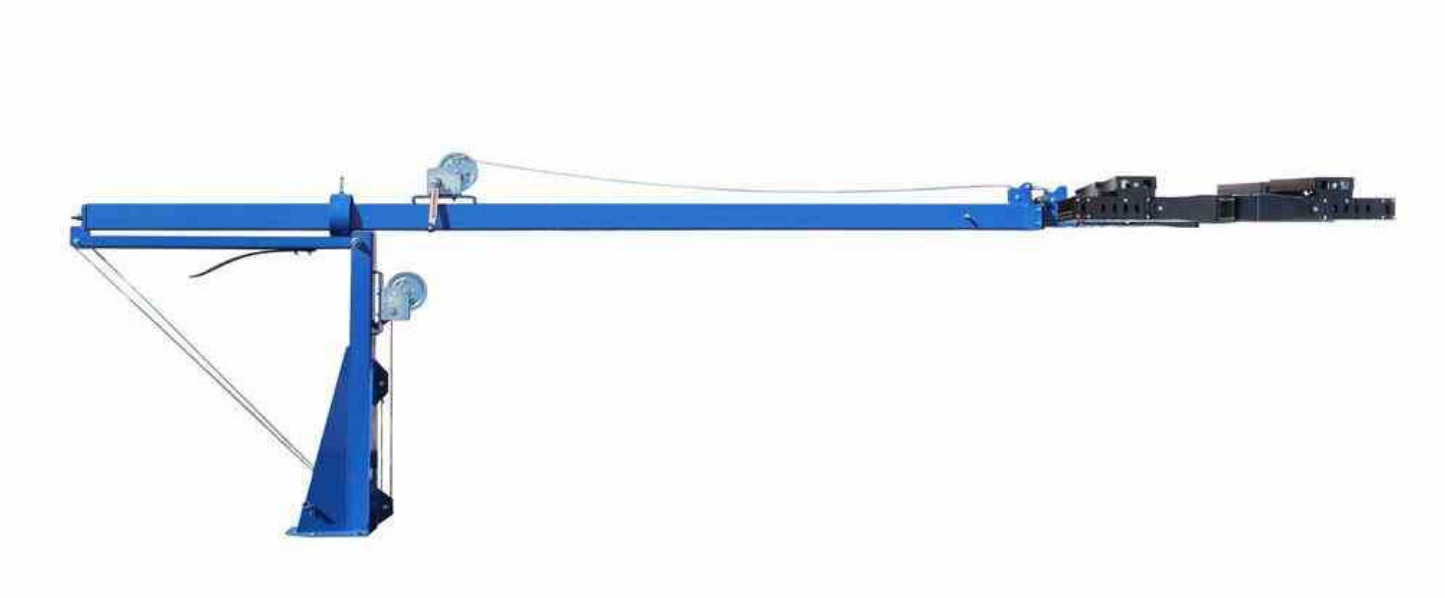
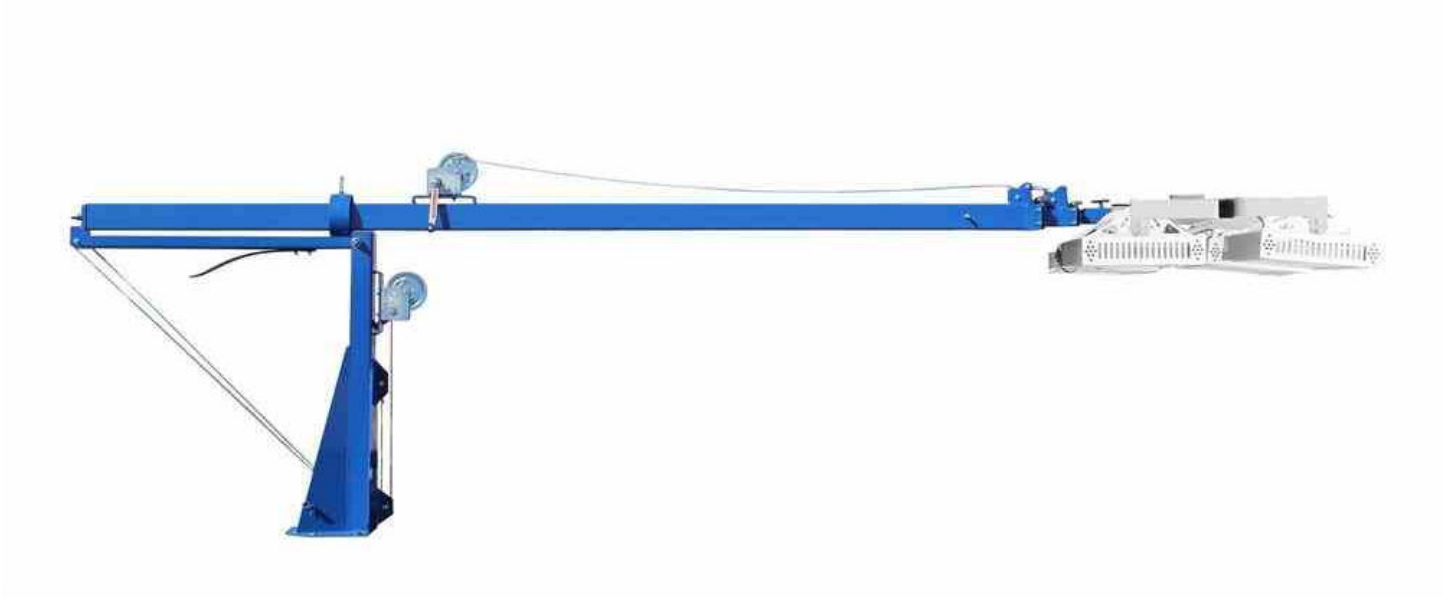
Frequently Asked Questions (FAQ)





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Product ID: 104714

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LM-30-3S-4X500W-LED-Cord Cap-Beam Config

Example: LM-30-3S-4X500W-LED-5.20-25SP

Cord Cap	
5-20 STRAIGHT	-5.20
6-20 STRAIGHT	-6.20
L5-20 TWIST	-L5.20
L6-20 TWIST	-L6-20
SHUCKO	-Schuko
FLYING LEADS	-Pigtail

Beam Config	
25°	-25SP
60°	-60F
25°/60°	-2560.SpFl

Links (Click on the below items to view):

- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**