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LM-30-8.75-5S-4X500LTL-LED-TLR10-MOD1-277-300

LED 5-Stage Light Tower - 8.75' to 30' - 10' Trailer - 240,000 lms - 277VAC - Black Powder Coat Mast

Product ID: 150997

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-30-8.75-5S-4X500LTL-LED-TLR10-MOD1-277-300 Trailer Mounted LED Light Plant

Lamp Type: Cree® LED
Lamps: (4) 480 Watt LED Fixtures
Total Watts: 2,000 (500W per lamp)
Total Lumens: 270,000 (67,500 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
Color Rendering Index: >85 CRI
Ambient Temp Rating: -40°C to +80°C
Power Factor: >97%
Lamp Voltage: Universal 120-277V AC 50/60 Hz
Lamp Control: Individual Switches per Light Head
Mast Length: 8.75 feet - 30 feet
Weight: ~600 lbs
Materials: Steel
Finish: Powder Coated - Black
Voltage: 220-240 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: 300` SOOW Cable w/ Cord Cap From Base of Mast

Mast Summary

8.75 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
2,000W LED compared to 4000W MH
270,000 Total Lumen Output
Independently Adjustable Light Heads
Independently Switched 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

Trailer Summary

10` x 6.5` Trailer Bed

Cord Cap: L7-15P, L7-20P, L7-30P, Flying Leads

Trailer Specs

Materials: Steel

Trailer Dimensions: 10-L` x 6.5`-W trailer bed

Hitch: 2" Ball Coupler

Wiring: 7-Pin Flat

Axle: 3,500lb

Suspension: 3,500 Lb 4-Leaf Double Eye Springs

Outriggers: (4) 1,000 Manual Crack Leveling Jacks - Retractable

Wheels: (2) 15" 5x4.5 Steel Rims

Tires: ST205/75/D15 H188

Shipping Weight: ~1600 lbs

Shipping: Common Freight

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

3,500 lb Suspension
15" Trailer Tires
(4) 1,000lb Retractable Outriggers
Black Powder Coat - Mast, Trailer, Light Heads

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics LM-30-8.75-5S-4X500LTL-LED-TLR10-MOD1-277-300 trailer mounted fold over light mast provides a safe and effective way for operators to quickly deploy 2,000 watts of intense LED lighting to elevations up to thirty feet. Four 500 watt high output LED lights produce a wide spread of intense white light, 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, a removable mast head for storing mounted equipment when not in use and operates on 277V AC 50/60Hz via 300` of 12/3 SOOW cable terminated in a general area cord cap. For aesthetics, the mast is finished in a black powder coat, with a matching black trailer and black light heads.

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

The LM-30-8.75-5S-4X500LTL-LED-TLR10-MOD1-277-300 trailer mounted 2,000 watt telescoping steel light mast with 500 watt LED light heads from Larson Electronics is designed to quickly and safely deploy 2,000 watts of intense LED lighting in locations where elevated illumination is needed for maximum area coverage. The telescoping five stage steel light mast on the LM-30-8.75-5S-4X500LTL-LED-TLR10-MOD1-277-300 from Larson Electronics is designed to allow operators to quickly and safely deploy lighting in locations where this equipment must be elevated to heights up to 30` for effective coverage. This light boom can be extended to 30` for maximum area coverage and collapsed to 8.75` for applications where a smaller footprint is required. The tower is constructed of square steel tubing with a base section 6.6` in length and 6" by 6" by 3/16" thick, lower section 6.78` in length and 5" by 5" by 3/16" thick, middle section 6.93` in length and 4" by 4" by 1/8" thick, upper section 7.08` in length and 3" by 3" by 1/8" thick, and top section 7.58` in length and 2" by 2" by 1/8" thick. Each section has a 1` overlap. The mast is elevated using an included 3,000 lbs hand winch with 3/16" galvenized steel cable and extended to its full height using a second 3,000 lbs hand winch.

This model features a black powder coat finish on the mast. The trailer and light heads are also black for aesthetics.

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.



Click Image to Enlarge



Click Image to Enlarge



Click Image to Enlarge

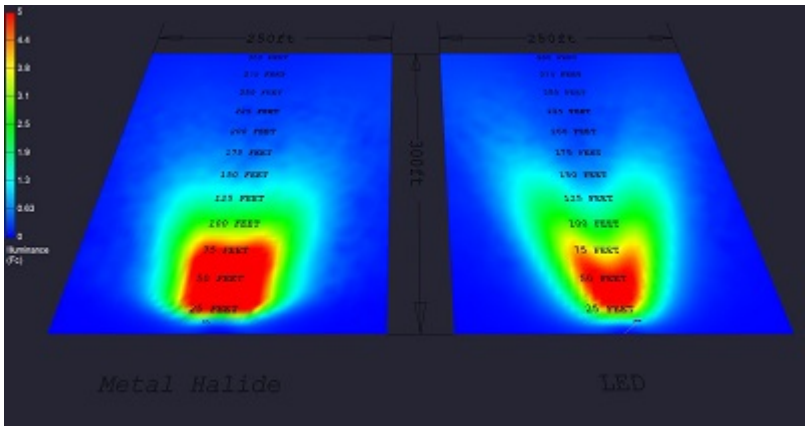
Lights: The lighting system on this articulating light mast is comprised of four of our of GAU-LTL-500W-LED 500 watt LED lamps producing 67,500 lumens of light each attached to the end of the telescoping pneumatic light boom. These floodlights produce a wide flood light pattern with a combined total of 2,000 watts and 270,000 lumens of light. The GAU-LTL-500W-LED lights are ideal replacements for fragile and hot running 1000 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 Cree® 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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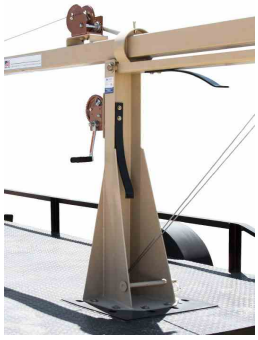
The above image shows the comparison of the traditional 4000 watt metal halide light plant such as our LM-25-3S-4X1000W (left) to the LM-30-8.75-5S-4X500LTL-LED-TLR10-MOD1-277-300 LED light tower. The area being illuminated by each tower is 300` in length and 250` in width. Unlike the metal halide light 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.

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.

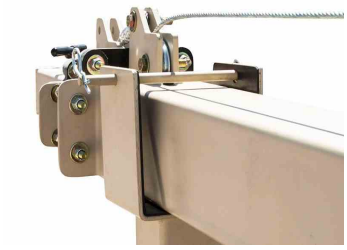


Retractable outriggers with 1,000 lb manual crank jacks and tail lights.

Click Image to Enlarge



Manual 1,000 lb hand crank winch for elevating and folding over the light mast on the LM-30-3S-TLR.
Click Image to Enlarge



Mast support bracket for securing the mast boom in the fold-over position during transportation.
Click Image to Enlarge



Ready to Ship

Click Image to Enlarge

The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. When lowered to 14 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 for corrosion resistances and aesthetics. This light mast is mounted to a 10` by 6.5`, single axle trailer via six 1/2" anchor bolts. The two wheel trailer is equipped with 3,500 lbs leaf springs and 15" trailer tires. The trailer can support and haul an additional 2,000 lbs of equipment. A standard 2" ball coupling, two standard safety chains, and 4-pin flat trailer plug allow for easy hookup and towing.

Voltage: The drivers in this unit provide the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. This light tower operates on 277V AC 50/60Hz. The 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.

Wiring and Plug: This LED trailer mounted light tower is equipped with 300 feet of 12/3 chemical and abrasion resistant SOOW cord. Plug options include L7-15P, L7-20P, and L7-30P. Alternatively, we can provide flying leads with no plug for hard wire applications or for operators who prefer to wire in user provided cord caps. Please choose pigtail option below for flying leads with no plug.

Suggested Applications: With its easy deployment the LM-30-8.75-5S-4X500LTL-LED-TLR10-MOD1-277-300 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

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)





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Product ID: 150997

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LM-30-8.75-5S-4X500LTL-LED-TLR10-MOD1-277-300-Cord Cap-Beam Config

Example: LM-30-8.75-5S-4X500LTL-LED-TLR10-MOD1-277-300-L7.15-10SP

Cord Cap	
L7-15P	-L7.15
L7-20P	-L7.20
L7-30P	-L7-30P
FLYING LEADS	-Pigtail

Beam Config	
10° SPOT	-10SP
24° WIDE SPOT	-25WS
38° NARROW FLOOD	-38NF
60° FLOOD	-60F
25°/60° COMBO	-2560SpFl

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**