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RNT-LM-30-3S-4X500W-LED-TLR-100C

RENT 2000 Watt High Intensity LED Light Tower - Three Stage Mast - Extends up to 30 Feet - 240,000 Lumen

Product ID: 278075

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.

This unit is Made In USA - Manufactured in Texas

RNT-LM-30-3S-4X500W-LED-TLR-100C Trailer Mounted LED Light Plant

Lamp Type: Bridgelux® LED
Lamps: (4) 500 Watt LED Fixtures
Total Watts: 1600 (500W per lamp)
Total Lumens: 240,000 (60,000 per lamp)
Luminous Efficiency: 120 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
Lamp Control: Individual Switches per Light Head

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

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
1,600W LED compared to 4000W MH
240,000 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
130 Lumens Per Watt Efficiency
70% Lumen Retention after 80,000 Hours
IP67 Waterproof LED Fixtures

Trailer Summary

Wiring: 100` SOOW Cable w/ Cord Cap from base of mast
Cord Cap: 5-20, 6-20, L5-20, L6-20, Schuko, or Pigtail

Trailer Specs
Materials: Steel
Trailer Dimensions: 14-L` x 6`-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

14` x 6` Trailer Bed
3,500 lb Suspension
15" Trailer Tires
(4) 1,000lb Retractable Outriggers

Special Orders - Special Requirements
Contact us for special requirements
Intl: 1-903-270-1187
Toll Free: 1-800-369-6671
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This unit is for rentals
This unit is Made In USA - Manufactured in Texas
The Larson Electronics RNT-LM-30-3S-4X500W-LED-TLR-100C 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 1000 watt metal halide equivalent 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, 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 RNT-LM-30-3S-4X500W-LED-TLR-100C trailer mouned 2,000 watt telescoping steel light mast with 1000 watt metal halide equivalent 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. This light boom can be extended to twenty-five 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 12` in length and 4" by 4" by 1/8" thick, middle section 11` in length and 3" by 3" by 1/8" thick, and an upper section 10` and 2" by 2" by 1/8" thick. Each section has a 1` overlap. 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.
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.

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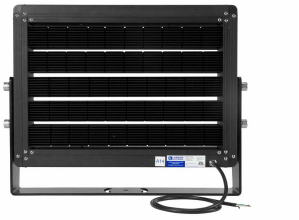


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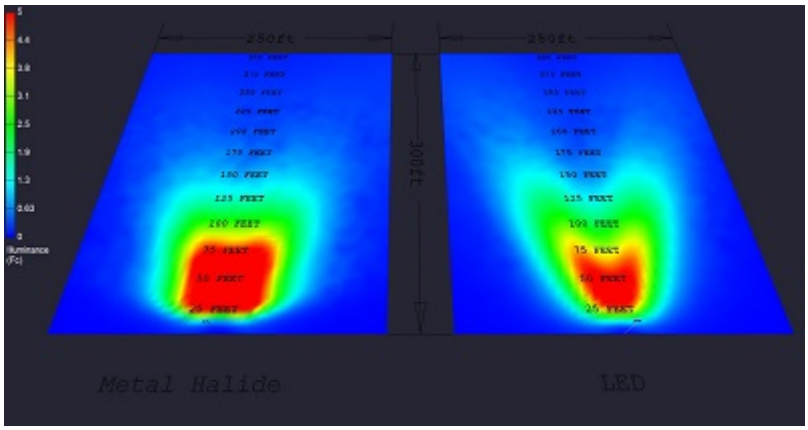
Lights: The lighting system on this articulating light mast is comprised of four our of GAU-LTL-500W-LED 500 watt LED lamps producing 60,000 lumens of light each attached to the end of the telescoping pneumatic light boom. These floodlights produce a wide flood light pattern with a combined total of 1,600 watts and 508,000 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 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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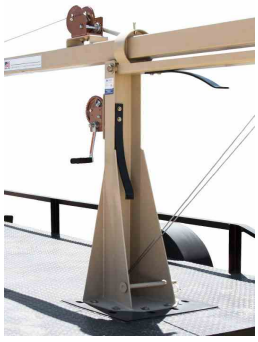
The above image shows the comparison of the traditional 4000 watt metal halide light plant such as our LM-25-3S-4X1000W (left) to the LM-25-3S-4X500W-LED-TLR LED light tower. The area being illuminated by each tower is 300` in length and 250` in width. Unlike the metal halide light plant, there are no 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.



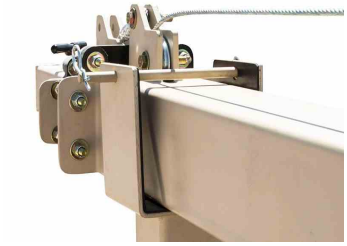
Retractable outriggers with 1,000 lb manual crank jacks and tail lights.

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

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 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. This light mast is mounted to a 14` by 6`, 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. These light towers can operate on current ranging from 90 to 305V AC or 127 to 431V DC 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 electrical systems which would otherwise result in burning up or premature LED failure without it.
Wiring and Plug: This LED light tower is equipped with 100 feet of 16/3 chemical and abrasion resistant SOOW cord that is fitted with an industrial grade cord cap for easy connection to common wall outlets. Plug options include standard 5-20 20 amp straight blade plug for 110V wall outlets with ground, standard 6-20 20 amp straight blade plug for 220-240V wall outlets with ground, NEMA L5-20 20 amp twist lock plug for 125V twist lock outlets, NEMA L6-20 20 amp twist lock plug for 240V twist lock outlets, or a two pin 16 amp rated Schuko plug with ground contact and socket for European outlets up to 250V. 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 RNT-LM-30-3S-4X500W-LED-TLR-100C 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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RNT-LM-30-3S-4X500W-LED-TLR-100C

Product ID: 278075

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

RNT-LM-30-3S-4X500W-LED-TLR-100C-Rental Length-Cord Cap-Beam Config

Example: RNT-LM-30-3S-4X500W-LED-TLR-100C-MR-5.20-25SP

Rental Length	
MONTHLY	-MR
WEEKLY	-WR
DAILY	-DR

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):

- **Operations Manual**
- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**