

500 Watt High Intensity LED Light Tower - Three Stage Mast - Extends up to 20 Feet - 40,000 Lumens -

Part #: [LM-20-3S-2X150LTL-LED](#)



Made in the USA

The Larson Electronics LM-20-3S-2X150LTL-LED is a fold over light mast provides a safe and effective way for operators to quickly deploy 500 watts of intense LED lighting to elevations up to twenty feet. Two 250 watt high output LED lights produce a wide spread of intense white light, equivalent to a 1000 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-20-3S-2X150LTL-LED 500 watt telescoping steel light mast with two 250 watt metal halide equivalent LED light heads from Larson Electronics is designed to quickly and safely deploy 500 watts of intense LED lighting in locations where elevated illumination is needed for maximum area coverage. This light boom can be extended to twenty 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 two of GAU-LTL-150W-LED 250 watt LED lamps producing 33,750 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 500 watts and 67,500 lumens of light. Each GAU-LTL-500W-LED light is an ideal replacement for one fragile and hot running 400 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-150W-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 recommend these LED lights for use in 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.

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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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-20-3S-2X150LTL-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.

Specifications / Additional Information**LM-20-3S-2X150LTL-LED Three Stage LED Light Tower****Lamp Type:** CREE® LED**Lamps:** (2) 250 Watt LED Fixtures**Total Watts:** 500 (250W per lamp)**Total Lumens:** 67,500 (33,750 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 - 20 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**Shipping:**Common Freight**Options:** Length- Mounting-Fixtures/ Call Us for Special Requirements**Mast Summary**

12 to 20 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 800W MH Towers

500W LED compared to 1000W MH

67,500 Total Lumen Output

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

Independently Adjustable Light Heads

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

3 year warranty replacement on this light mast. The customer ships the failed light mast to Larson Electronics at their expense. If the failure is a manufacturer defect, we will repair and/or replace the unit.

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[Part #: LM-20-3S-2X150LTL-LED \(150152\)](#)

Options:

LM-20-3S-2X150LTL-LED- CORD CAP - BEAM CONFIG

Example: LM-20-3S-2X150LTL-LED-5.15-25SP

CORD CAP		BEAM CONFIG	
5-15 Straight	-5.15	25°	-25SP
L5-15 Twist	-L5.15	60°	-60F
5-20 Straight	-5.20	25°/60°	-2560.SpFI
6-20 Straight	-6.20		
L5-20 Twist	-L5.20		
L6-20 Twist	-L6-20		
Shucko	-Schuko		
Flying Leads	-Pigtail		

Links (Click on the below items to view):

- [Hi-Res Image 1](#)