

20' Telescoping Light Mast - 12' to 20' - (4) LED Lamps - 50' Cord - Fixed Mount

LM-20-FM-4X250LTL-LED

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



LM-20-FM-4X250LTL-LED LED Light Tower

Mast Specs

Mast Length: 12 feet - 20 feet

Weight: +-600 lbs

Materials: Steel

Finish: Powder Coated - Gloss Blue

Operation: (2) 2,500lbs Hand Winches, Electric Optional

Cable: 3/16 Aircraft Grade Galvanized Steel Cable

Mounting: 1/4" Thick, 13"x15" Base Plate - Fixed Mount

Anchor Bolts: (6) 9/16" Bolts

LED Lights Specs

Lamp Type: LED

Lamp Qty: (4)

Total Watts: 1000W

Single-lamp Watts: 250W

Total Lumens: 129,600 lms

Single-lamp Lumens: 32,400 lms

Luminous Efficiency: 135 lm/w

LED Life Expectancy: 80,000 hours

Color Temp: 6000K

Lighting Configuration: Flood Pattern

Optics Efficiency: 98% - PMMA High Transmittance Optics

LED Drive: 90%

Power Factor: >97%

Ambient Temp Rating: -40°C to +80°C

Materials: Die Cast Aluminum Housing, PMMA Optics

Mount: Tower

Wiring: 50' 16/3 SOOW w/ Cord Cap

Cord Cap: 5-15, 6-15, L5-15, L6-15, BS1363, Schuko or Pigtail

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

Powder 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) MH Towers

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- Requirements

Contact us for special requirements

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The Larson Electronics LM-20-FM-4X250LTL-LED Telescoping Light Mast provides a safe and effective way for operators to quickly deploy 1,000

watts of intense LED lighting to elevations up to twenty feet. Four 250-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 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-FM-4X250LTL-LED telescoping steel light mast provides 129,600 lumens 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 smaller footprint is required. 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.



[Click Image to Enlarge](#)

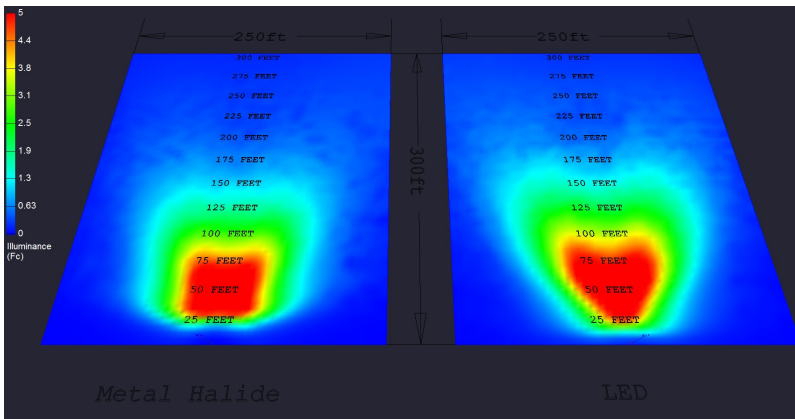


[Click Image to Enlarge](#)

Lights: The lighting system on this articulating light mast is comprised of four our GAU-LTL-250W-LED 250-watt LED lamps producing 32,400 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 1,000 watts and 129,600 lumens of light. The GAU-LTL-250W-LED lights are ideal replacements for fragile and hot running 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-250W-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 80,000 hours of use. We use these LED lights for applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.



[Click Photo to Enlarge](#)

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-20-FM-4X250LTL-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.

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.

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.

[Click Photos to Enlarge](#)



5-15 Straight Blade Plug
 15 Amp / 125V Rated



L5-15 Twist Lock Plug
 15 Amp / 125V Rated



L6-15 Twist Lock Plug
 15 Amp / 250V Rated



UK BS1363 Straight Blade Plug
13 Amp / 250V Rated / Internal Fuse



Intl Schuko 2-Pin Plug
16 Amp / 250V Rated / Grounded



Flying Leads / Pigtail Wires

Wiring/Plug: This LED light tower is equipped with 50 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 5-15 15 amp straight blade plug for 110V wall outlets with ground, standard 6-15 15 amp straight blade plug for 220-240V wall outlets with ground, NEMA L5-15 15 amp twist lock plug for 125V twist lock outlets, NEMA L6-15 15 amp twist lock plug for 240V twist lock outlets, British BS1363 13 amp fused 3-blade plug for United Kingdom 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.

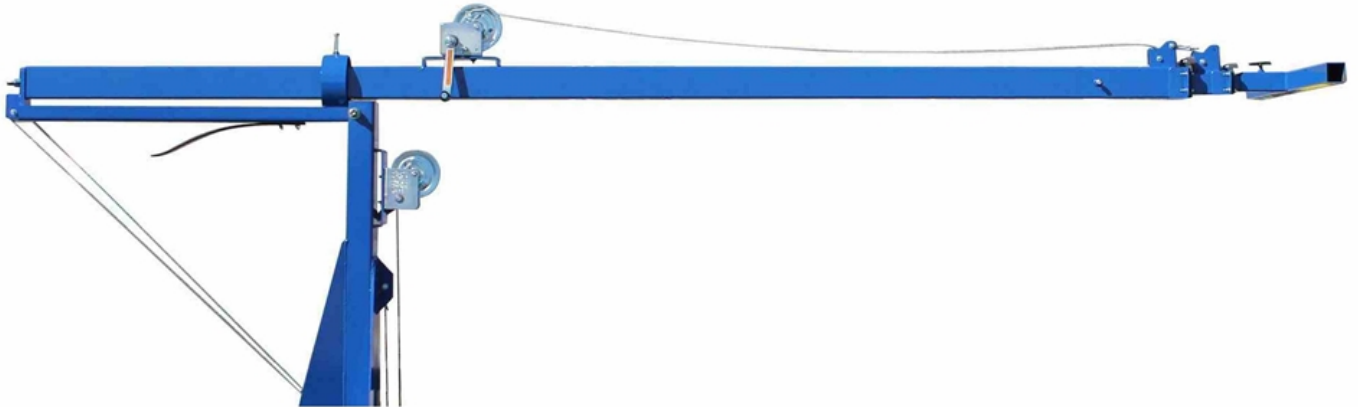
This light tower weighs approximately 600 lbs. The entire tower assembly is shipped via common freight carrier and when shipped measures approximately 16.5 feet long, 4 feet wide, 5 feet tall and weighs approximately 800 lbs. Larson Electronics can custom tailor these units to the customer's requirements 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-FM-4X250LTL-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.

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.



Frequently Asked Questions (FAQ)



Options:

LM-20-FM-4X250LTL-LED-Cord Cap

Example: LM-20-FM-4X250LTL-LED-5.15

Cord Cap	
5-15 STRAIGHT	-5.15
6-15 STRAIGHT	-6.15
L5-15 TWIST	-L5.15
L6-15 TWIST	-L6.15
UK BS1363	-BS1363
INTL SCHUKO	-Schuko
PIGTAIL	-Pigtail

Links (Click on the below items to view):

- [HigResPic1](#)
- [HigResPic2](#)
- [Video1](#)
- [Video2](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)