

### **LM-20-6.5-5S-FM-2X250LTL-NYC**

**20' Five Stage Fixed Mount LED Light Mast - 6.5' to 20' - (2) 240W LED Fixtures - 3/4" Coiled Cord**

**Product ID: 224608**

**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-20-6.5-5S-FM-2X250LTL-NYC Five Stage Telescoping LED Light Tower**

##### **Mast Specs**

**Length: 6.5' - 20'**

**Weight: +-315 lbs**

**Payload Capacity: 150 lbs**

**Materials: Steel**

**Finish: Powder Coated - Glossy Blue (Powder Coated Black or Galvanized Optional)**

**Operation: 2,500lbs Manual Winch, Electric Optional**

**Cable: 3/16" Galvanized Steel Aircraft Cable**

**Mounting: 1/4" Thick, 13"x15" Base Plate**

**Anchor Bolts: (6) 9/16" Anchor Bolts (not included)**

##### **LED Lamp Specs**

**LED Lamp Qty: (2)**

**Lamp Type: CREE® LED**

**Voltage: 120-277V AC**

**Total Watts: 480W**

**Single-lamp Watts: 240W**

**Total Lumens: 64,800 lms**

**Single-lamp Lumens: 32,400 lms**

**Luminous Efficiency: 135 lm/w**

**Beam Configurations: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood or 90° Wide Flood**

**LED Color Temperature: 5000K or 4000K**

**LED Life Expectancy: 80,000 hours**

**Optics Efficiency: 98% - PMMA High Transmittance Optics**

##### **Summary**

**6.5' to 20' LED Light Mast**

**Steel Construction**

**Powder Coated Finish**

**125 mph Wind Resistance**

**(2) 240W LED Fixtures**

**Manual or Optional Electric Operation**

**Metal Halide Replacement**

**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 Rated Waterproof**

**3/4" Coiled Cord**

LED Drive %: 90%

Amp Draw: 4.16A @ 120V, 2.08A @ 240V, 1.73A @ 277V

Ambient Temperature Range: -40°C to +80°C

Materials: Die Cast Aluminum Housing, PMMA Optics

Housing Color: Natural Aluminum

Mount: Light Tower/ U-bracket

Wire Management: Weatherproof 3/4" Coiled Cord w/ Top Located Junction Box

Shipping: Common Freight

Shipping Dimensions: -

Shipping Weight: +350 lbs

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

#### Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

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### **Made in Texas**

**The Larson Electronics LM-20-6.5-5S-FM-2X250LTL-NYC Five Stage Fixed Mount LED Light Mast provides a safe and effective way for operators to quickly deploy two, 240-watt LED lights up to 20 feet and retract to 6.5 feet when fully collapsed. Equipped with a 3/4" weatherproof coiled cord, this crank up LED light tower features a rotating boom that allows for 360° of rotation and a removable mast head for storing the mounted LED fixtures when not in use.**

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

This telescoping five stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy two high-intensity LED fixtures in locations where this equipment must be elevated to heights up to 20' for effective coverage. This light boom can be extended to 20' for maximum area coverage and collapsed to 6.5' for applications where a smaller footprint is required. This allows operators to collapse the mast and leave it in the upright position during transit if desired.

The tower is constructed of square steel tubing with a base section 4.54' in length and 6" by 6" by 3/16" thick, lower section 4.73' in length and 5" by 5" by 3/16" thick, middle section 4.92' in length and 4" by 4" by 1/8" thick, upper section 5.10' in length and 3" by 3" by 1/8" thick, and an top section 5.60' in length and 2" by 2" by 1/8" thick. Each section has an overlap of at least 12 inches. The mast is extended to its full height using an included 2,500 lbs hand winch with 3/16" galvanized steel cable.



[Click Image to Enlarge](#)



[Click Image to Enlarge](#)

**LED Lights:** The LED light tower is equipped with two, Larson Electronics GAU-LTL-250W-LED high intensity LED lamps. Each unit produces 32,400 lumens of high intensity light while drawing only 240 watts at 2.08 amps from a 120 volt electrical system, for a total of 64,800 lumens at 480 watts. The LED lights each contain twenty-Four CREE® high output LEDs producing 1,350 lumens each, which are arranged in rows and paired with PMMA high purity optics to produce a well focused 24° wide spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We

also offer optional optics with 10° spot, 38° narrow flood, 60° flood, and 90° wide flood beam spreads. The spot beams are tightly focused and are designed for high elevation mounting to achieve distance, making spot versions ideal for high mast and spots lighting. The flood beams are designed to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights.

The LED lights are ideal replacements for fragile and hot running metal halide lamps. They offer low power requirements, high durability and a versatile mounting system that makes these LED light emitters a superior lighting solution for demanding applications where power and reliability is critical. The heavy duty design and high power of these LED lights also makes them suitable for a wide array of applications including but not limited to: high mast lighting, light towers, light plant LED retrofits, military, mining, industrial manufacturing, machine visioning, security and law enforcement, commercial structure illumination, sport complexes, billboards, race tracks, and parking lots to name a few.

**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.

**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 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.

**Wire Management:** The LED light tower includes a weatherproof 3/4" coiled cable that runs the length of the tower to secure wiring during deployment. The wiring wraps around the mast and ends in a top located junction box. This wire management prevents installed cable from getting hung up during deployment operations and reduces chances of damage to the cable.



The image above displays the LM-20-6.5-5S-FM-2X250LTL-NYC used for antenna deployment.

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" by 13" by 1/4" thick mounting base-plate which has been drilled to accept six 9/16" anchor bolts. A 44" wide and 2" by 2" by 1/4" thick mounting plate is attached to the upper section of the mast which provides a strong and stable platform for the two LED fixtures.

The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. When lowered to 6.5', 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 any direction 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.

This light tower weighs approximately 315+ lbs, can easily support and lift the two LED fixtures. The entire tower assembly is shipped via common freight carrier. Larson Electronics can custom tailor these units to the customer`s requirements with longer sections and larger mounting plates. For example, the LM-30-3S is another model that reaches to a length of 30 feet, with a 14 foot lower section, 12 foot middle section, and a 8 foot upper section and a 4 foot wide upper mounting bracket. We also offer a choice of either the manual 1,000 lbs hand winches included standard or optional electric winches.

**Suggested Applications:** Temporary lighting, construction sites, and security camera deployment. We can equip this mast with 1000W or 1500W Metal Halide lights or a wide variety of high powered LED lights with comparable power, including the [LED10WSA-160](#), [LEDLB-200X2E](#), [LEDLB-160X2E](#) or [LEDLB-80x2E](#).

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](mailto: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)

LM-20-6.5-5S-FM-2X250LTL-NYC

Product ID: 224608

Export Control Classification Number (ECCN): EAR99

**Options:**

LM-20-6.5-5S-FM-2X250LTL-NYC-**Finish**-**Beam Config**-**Cord Cap**

**Example:** LM-20-6.5-5S-FM-2X250LTL-NYC-**GLVD**-**10SP**-**5.15**

| Finish            |           |
|-------------------|-----------|
| GALVANIZED        | -GLVD     |
| POWDER COAT BLACK | -PWDC-BLK |
| POWDER COAT BLUE  | -PWDC-BLU |

| Beam Config      |       |
|------------------|-------|
| 10° SPOT         | -10SP |
| 25° WIDE SPOT    | -25WS |
| 40° NARROW FLOOD | -40NF |
| 60° FLOOD        | -60F  |
| 90° WIDE FLOOD   | -90WF |

| Cord Cap      |          |
|---------------|----------|
| 5-15 STRAIGHT | -5.15    |
| 6-15 STRAIGHT | -6.15    |
| 5-20 STRAIGHT | -5.20    |
| 6-20 STRAIGHT | -6.20    |
| L5-15 TWIST   | -L5.15   |
| L6-15 TWIST   | -L6.15   |
| L5-20 TWIST   | -L5.20   |
| L6-20 TWIST   | -L6.20   |
| UK BS1363     | -BS1363  |
| INTL SCHUKO   | -SCHUKO  |
| PIGTAIL       | -PIGTAIL |

Links (Click on the below items to view):

- [IES \(Photometric File\)](#)
- [Photometric Flood Report](#)
- [Photometric Indoor Report](#)
- [Photometric Polar Graph](#)
- [Spectrum Curve \(Wavelength Graph\)](#)
- [HigResPic1](#)
- [Video1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)