Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

LM-20-3S-4X48.160W-LED-50

640W LED Area Light Tower - 12' to 20' Mast - Balloon Light Alternative - 50' 16/3 SOOW Cord

Product ID: 153655

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-20-3S-4X48.160W-LED-50 LED Light Tower
Lamp Type: LED
Tower Height: 12` to 20`
Weight: -
Total Watts: 640W (160W per Lamp)
Voltage: 120-277V AC
LED Lamp Life Expectancy: 50,000+ Hours
Beam Angle: 160°
Luminous Efficiency: 160 lm/w
Total Lumens: 76,800 lm (19,200 lm per Lamp)
Color Temp: 6,000K
Ambient Temp Range: -30°C to +60°C
Power Efficiency: >90%
Power Factor: >0.95
Materials: Aluminum Housing, Polycarbonate Lens
Mounting: Tower
Operation: (2) 1,000lbs Hand Winches, Electric Optional
Cable: 3/16 Aircraft Cable
Wiring: 50` 16/3 SOOW Cord
Cord Cap Options: 5-15P, 5-20P, L5-20P, L6-20P or L6-30P

Features
(4) 4` Diffused LED Lamps
50,000+ Hour LED Life Span
80% Lumen Retention @ 50,000+ Hrs
Replacement for Balloon Light Towers
Vapor Proof
Vibration Shock Resistant
IP65 Rated Waterproof
Outdoor Approved
Extends 12` to 20`
125 mph Wind Resistance
Removable Mast Head

Special Orders - Special Requirements
Contact us for special requirements

Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

This unit is Made In USA - Manufactured in Texas

The Larson Electronics LM-20-3S-4X48.160W-LED-50 LED Light Tower is a high-quality lighting solution for public work sites and industrial

operations. This 640-watt unit includes four, 4` diffused LED fixtures in a downward, `X` configuration. Designed as an ideal replacement for balloon light towers, the LED lamps are securely mounted on an aluminum mast, which extends up to 20 feet and retracts to 12 feet. A 50` 16/3 SOOW cord is available for completing electrical connections.

The LM-20-3S-4X48.160W-LED-50 is a superior LED lighting system for outdoor work sites, including roadside repair and construction. Capable of extending up to 20 feet and retracting to 12 feet for seamless storage, this LED unit consists of four, 4` LED fixtures with diffused illumination. Positioned downward and in an `X` pattern, the lamps illuminate the ground, which reduces the possibility of blinding. Compared to conventional balloon light masts, this LED light tower is highly efficient (doesn`t waste a lot of light during operation).

When in use, the entire LED lighting system consumes a total of 640 watts (160 watts per lamp), while offering 76,800 lumens (19,200 lumens per lamp) of white light with a color temperature of 6,000K. Featuring a 160° wide flood beam spread, the fixtures can be adjusted vertically for robust control of the area covered. The LED lamps on the LM-20-3S-4X48.160W-LED-50 are housed in aluminum casings and protected by shatter-resistant polycarbonate lenses, while the mast is constructed of non-sparking aluminum. This multi-voltage unit operates on 120-277V AC without modifications.

The light mast can be extended to 20 feet for maximum area coverage and collapsed to 12 feet for applications where a footprint smaller is required. The tower is constructed of square steel tubing with a lower section 12 feet in length and 4 inches in diameter, a middle section 8 feet in length and 3.5 inches in diameter, and an upper section 6 feet and 3 inches in diameter. Each section has 2` of overlap. The mast is elevated using an included 1,000 lbs. hand winch with 3/16 inch cable and extended to its full height using a second 1,000 lbs. 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.

Wiring: The LED light mast is equipped with 50 feet of 16/3 SOOW cord that is fitted with an industrial grade cord cap for easy connection to common wall outlets. Plug options include the following: 5-15P, 5-20P, L5-20P, L6-20P or L6-30P.

The LM series of towers are powder coated with a glossy blue finish for corrosion resistance 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 3/4 inch anchor bolts. A 36 inch wide and 1/4 inch thick mounting plate is attached to the upper section of the mast which provides a strong and stable platform for equipment.

The LM family of telescoping towers feature a proprietary mast guidance system, which provides 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 ease 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 ease, and can typically

be rotated with a single hand.
This light tower weighs approximately 800 lbs. and can easily support and lift 150 pounds of lights or equipment. 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 1400 lbs. 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.
Applications: Road construction, MRO, outdoor maintenance, public repair projects, outdoor illumination, security checkpoints, construction sites, roadside operations, balloon light tower replacement and more.
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: 153655

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LM-20-3S-4X48.160W-LED-50-Cord Cap

Example: LM-20-3S-4X48.160W-LED-50-5.15P

Cord Cap	
5-15P	-5.15P
5-20P	-5.20P
L5-20P	-L5.20P
L6-20P	-L6.20P
L6-30P	-L6.30P

Links (Click on the below items to view):

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