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## LM-SMDE-30-8-5S-4X400LTL-LED-RD-E2E

# 1920 Watt Manual Crank LED Light Plant - Skid Mount Five Stage Mast - Extends to 30' - Daisy Chain

**Product ID: 105187**

**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-SMDE-30-8-5S-4X400LTL-LED-RD-E2E 1,600 Watt LED Light Plant**
**Lamp Type: LED**
**Lamps: (4) 400 Watt LED Fixtures**
**Total Watts: 1,600**
**Total Lumens: 54,000**
**Mast Length: 8.83 feet - 30 feet**
**Capacity:** 150 lbs
**Materials:** Steel
**Finish:** Powder Coated - Gloss Blue
**Operation:** 2,500lbs Manual Crank Hand Winch
**Cable:** 3/16 Aircraft Cable
**Mounting:** 48" x 48" x 53" Carbon Steel Cube Frame
**Shipping:** Common Freight

**Lamp Specs**
**Lamp Type: LED**
**Voltage:** Universal 100-277 VAC, 50/60Hz
**Lighting Configuration:** Flood Pattern
**Temp Rating: T5 -40°C to +65°C**
**Color Temp: Cool White 5500-5600K, 70-CRI**
**Lamp Life:** 80,000+ Hours
**Lamp Material:** Corrosion Resistant Aluminum
**Outlet/Cord Cap:** Twist Lock - L14-30P and L14-30C

**Quick Summary**
**Mast Summary**
8.83` to 30` Foot Light Mast
Steel Construction
Power Coated Finish
Removable Mast Head
125 mph Wind Resistance
Manual Winch Operation
(4) 4` Slide-Out Outriggers w/ 1,200lb Jacks

**LED Lamp Head Summary**
ETL Listed US & Canada
Dial-in Adjustability per light head
80,000+ Lamp Life - 98% Transmission Optics
Corrosion Resistant Aluminum Housing
Multi-Bank LED System for Failsafe Performance
70% Lumen Retention after 80,000 Hours
Daisy Chain up to (3) Towers Together on 240V

**Special Orders - Special Requirements**
Contact us for special requirements
**Toll Free:** 1-800-369-6671

**Wiring:** 150` 10/4 SOOW Cable

**Cable Management:** Manual Crank Cord Reel

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

**Intl:** 1-903-270-1187

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**This unit is Made In USA - Manufactured in Texas**

**The Larson Electronics LM-SMDE-30-8-5S-4X400LTL-LED-RD-E2E skid mount LED light plant provides a safe and effective way for operators to quickly deploy 1,600 watts of intense lighting to elevations up to thirty feet. The four 400 watt LED lamps produce a wide spread of intense white light, allowing this unit to effectively cover large work areas with high quality illumination. The light tower folds features a rotating boom that allows for 360° of rotation, a removable mast head for storing mounted equipment when not in use, manual crank winch for easy deployment, and is mounted to a cube frame with skid pockets and 4-corner pick eyes for easy transportation. Each assembly is equipped with 150` of 10/4 SOOW cable and up to three units can be daisy chained together on 240V.**

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

The LM-SMDE-30-8-5S-4X400LTL-LED-RD-E2E five stage telescoping steel light mast with manual crank winch from Larson Electronics' is designed to quickly and safely deploy 1,600 watts of intense LED lighting in locations where elevated illumination is needed for maximum area coverage. This light boom can be extended to 30` for maximum area coverage and collapsed to 8.83` for applications where a footprint smaller is required. The tower is constructed of square steel tubing with a base section 5.92` in length and 6" by 6" by 3/16" thick, lower section 6.04` in length and 5" by 5" by 3/16" thick, middle section 6.19` in length and 4" by 4" by 1/8" thick, upper section 6.34` in length and 3" by 3" by 1/8" thick, and an top section 6.5` in length and 2" by 2" by 1/8" thick. Each section has a 1` overlap. The mast is elevated using an included 2,500 lbs manual hand crank winch with 3/16" galvanized steel cable.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

Included with this light tower is one of our wet area suitable GAU-LTL-400W-LED high output LED fixtures producing a combined total of approximately 54,000 lumens at 1,600 watts. The light head contains forty-eight Cree® high output LEDs producing 1,125 lumens each 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. Each floodlight is securely fastened to the light boom and each lamp includes a stainless steel support bracket to help maintain lamp stability within its housing. The lamps are hard wired into a NEMA 3R panel located on the end of the telescoping boom.
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.

**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-HB-400W-LED-SS 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.

The towers and assembly is powder coated with glossy blue finish for corrosion resistances and aesthetics. The mast and controls are secured within a cube-style frame constructed of 2" by 2" by 1/8" thick and measuring 48" wide by 48" long by 53" tall. Four 4` slide out outriggers with 1,200 lbs manual crank leveling jacks allow operators to anchor the unit down, providing stability during deployment. Four skid pockets allow this unit to be picked up from all four sides, and four-corner pick eyelets allow for stable deployment via crane operation. A 50" 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 four LED light fixtures fixtures.

The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. This light plant system can withstand winds up to 125+ mph when lowered to 8`, and up to 55 mph when fully extended. 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 mast is operated via centrally located control box with power switches within the cube frame, allowing operators to power the LED light fixtures on or off. Wiring is provided via 150` 10/4 SOOW cable terminated in a 30 amp L14-30P twist lock plug. A manual roll up drum mounted within the steel cage frame provides storage for the power cable. A waterproof L14-30C twist lock connector allows up to three units be daisy chained together on 120V circuit or up to three units on a 240V circuit. All electrical components are UL/cUL listed.

Larson Electronics can custom tailor these units to the customer’s requirements with longer sections and larger mounting plates. For example, the LM-25 is another model that reaches to a length of 25 feet, with a 15 foot lower section and a 10 foot upper section and a 4 foot wide upper mounting bracket. We also offer a choice of either the manual 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 GAU-LTL-400W-LED, LED10WSA-160, LEDLB-200X2E, LEDLB-160X2E or LEDLB-80X2E.

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# Frequently Asked Questions (FAQ)









**LM-SMDE-30-8-5S-4X400LTL-LED-RD-E2E**

**Product ID: 105187**

**Harmonized System (HS) Code:** 9405.41.84.10

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**LM-SMDE-30-8-5S-4X400LTL-LED-RD-E2E-Beam Spread**

**Example: LM-SMDE-30-8-5S-4X400LTL-LED-RD-E2E-10SP**

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

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**