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

WCDE-4K-4XLW60E-LED-M3

20' Mobile Light Tower with Diesel Engine Generator - (4) LED Lamps, 4kW Genset/39.9 Gallon Poly Fuel Tank - 230V 50 Hz

Product ID: 313105



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.

WCDE-4K-4XLW60E-LED-M2 Mobile Light Tower
Genset Specs:
Engine: -
Engine Speed: -
No. of Cylinders: (1)
Total Displacement: -
HP: -
Fuel Type: Diesel
Fuel Cell Capacity: 39.9 Gallon Poly Fuel Tank
Fuel Consumption: -
Alternator: Meccalte Alternator Brushless
Generator Watts: 4 kW Standby, 3kW w/ Lights On
Voltage: 230V, 50 Hz Single Phase
Starter: Electric and Manual Recoil Starter
Voltage Meter: Included
Noise Level: -

Light Mast Specs:
Length: 12 feet - 20 feet
Stages: 3
Capacity: 150 lbs
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: (2) 1,000lbs Hand Winches, Electric Optional
Cable: 3/16 Aircraft Cable

LED Light Specs:
Lamp Qty: (4)
Lamp Type: LED

Ratings/Features
Made in the USA
Buy American Compliant
TAA Compliant
12'-20' Light Mast
4kW Aurora Genset
39.9 Gallon Poly Fuel Tank
External Grounding
Leveling Jacks
UV Resistant Steel Enclosure
125 mph Wind Resistance
EPA Final Tier 4 Compliant Generator
(4) LED Lamps
Lifting Eye and Fork Pockets

Voltage: -
Total Watts: 240W
Single-lamp Watts: 60W
Total Lumens: 21,600 lms
Single-lamp Lumens: 5,400 lms
LED Life Expectancy: 50,000+ hours
Color Temp: 5600K
Color Rendering Index: 80
Beam Angle: 60° Vertical, 75° Horizontal
Lighting Configuration: Flood Beam
Sensor Type: Day/Night Sensor
Switches: On/off for Individual Light Heads
Operating Modes: Timer, Day/Night Sensor, Manual On/off
Ambient Operating Temperature: -50°C to +70°C
Materials: Cast Aluminum Housing, Polycarbonate Lens
Mounting: Adjustable Tower - Light Heads Individually Adjustable

Trailer Specs:
Materials: Steel Enclosure - UV Resistant
Hitch: NATO Pintle Hitch, Capable of Being Attached to a Standard Joint Light Tactical Vehicle (JLTV)
Finish: Industrial Grade Paint
Axle: (1) 2,200 lbs
Suspension: 2,000 lbs Double Eye Leaf Springs
Leveling Jacks: (3) 1,200 lbs Tube and Sleeve Leveling Jacks
Lighting: DOT Approved Tail, Side, Brake, and Directional Lights
Wheels: (2)
Tires: ST175/80D13
Dimensions (Fully Deployed Mast with LED Fixtures and Leveling Jacks): 325.94" x 122.67" x 120"
Weight (Operating Weight): 1,630 lbs

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

Made in Texas

The WCDE-4K-4XLW60E-LED-M3 Mobile Light Tower with Diesel Engine Generator from Larson Electronics is a towable LED lighting package powered by a 4kW generator. Equipped with four LED lamps offering 5,400 lumens per unit, the telescoping fold-over light tower extends to a maximum height of 20 feet and can be collapsed to 12 feet. All system components are secured to a heavy-duty trailer with NATO pintle hitch. This TAA compliant product is made in the USA.

The WCDE-4K-4XLW60E-LED-M3 mobile light tower is a reliable solution for deploying equipment in outdoor, remote locations. This unit is supported by a 4,000 watt generator, which supplies the current to four LED lights secured at the top of the tower. The light mast system can provide hours of continuous operation. This mobile package comes with automated dusk-to-dawn sensor and timer operation.

Generator: An included generator (4kW standby, 3kw with lights) equipped with an air-cooled motor provides power for the four LED lights and equipment. The diesel engine has a single cylinder. This engine features direct injection and an electric/manual recoil starter. A 39.9 gallon poly fuel tank allows the engine to operate continuously for extended periods of time without refueling. The 4,000 watt generator is a brushless design and produces 230V 50 Hz current.

LED Light Fixtures: This light plant is equipped with four, 60-watt high output LED light fixtures. Each unit offers 5,400 lumens during use (21,600 total lumens). The mounting assembly provides rotation and tilt to allow the user to position the unit as desired. Operating modes include: timer, day/night sensor and manual light operation. For dark sky compliance, an optional glare shield is shipped with this light.

The LED lamp assembly is protected by a shatterproof polycarbonate lens which is secured to the housing with a waterproof seal. A 1/2" waterproof connector provides a secure and sealed power connection point and rounds out this unit's weather resistant construction.

LED Technology: 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.

Lamp Control: Each lamp can be powered on/off individually, allowing operators to power one lamp or all four lamps at a single time to fit the required illumination requirements.

Telescoping Boom: The telescoping, fold over three stage steel light mast is designed to allow operators to quickly and safely deploy four LED lights in locations where this equipment must be elevated to heights up to 20 feet for effective coverage. This light boom can be extended to 20 feet for maximum area coverage and collapsed to 12 feet for applications where a smaller footprint 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.

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 LED lights. 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 ease, and can typically be rotated with a single hand.

Housing: All of the operating components are housed within a protective compartment constructed of UV resistant steel and provides airflow for cooling. The design and construction of this enclosure helps this unit operate at a low noise level.

Trailer: The system is mounted onto a two-wheel trailer with DOT-approved LED tail, side, brake and directional lights. Two standard safety chains allow for easy hookup and towing. This unit has a NATO pintle hitch, which is capable of being attached to a standard Joint Light Tactical Vehicle (JLTV). Three 1,200 lbs tube and sleeve leveling jacks are available for stable deployment. Lifting eye and fork pockets are available on this system.

Applications: This portable LED light tower is suitable for use in remote locations, such as temporary camps, construction sites, military bases and areas without reliable access to the grid. It can be utilized to power a wide range of tools and equipment.

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.

Summary of Specifications:

LED Lights

- (4) 60-watt LED Fixtures
- 5,400 lumens per LED lamp
- 21,600 total lumens

- Efficiency: 90 lumens per watt (LPW)
- IP68 LED modules
- Cast aluminum housing
- Individually adjustable LED light heads
- Automated dusk-to-dawn sensor
- Timer
- Individual on/off switch per LED light head

Light Mast

- 12' to 20' telescoping, fold over light mast
- Three stages
- Manual winch operation
- Powder coated steel

Generator

- 4 kW single cylinder diesel generator (4kW standby, 3kW with LED lights on)
- Direct injection, air cooled
- 39.9 gallon poly fuel tank
- EPA Final Tier 4 compliant
- Electric and manual recoil starter

Trailer

- UV resistant steel enclosure
- Single-axle trailer
- NATO pintle hitch, capable of being attached to a standard Joint Tactical Vehicle (JLTV)
- (3) 1,200 lbs tube and sleeve leveling jacks
- Lifting eye and fork pockets
- Tires: ST175/80D13
- DOT approved LED tail, side, brake, and directional lights

Frequently Asked Questions (FAQ)