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## HAL-WCDE-4X200RT

# 6000W Water Cooled Diesel Generator - 30' Telescoping Tower - (4) 200W EXP C1D2 Lights

**Product ID: 338071**

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



Image: HAL-WCDE-4X200RT

**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.**

**HAL-WCDE-4X200RT Mobile LED Light Tower**

**Light Tower/Trailer Specs**

**Boom Height:** Up to 30 Feet

**Mounting:** Towable Trailer, 3500lbs Axle, 2" Ball

**Generator Specs**

**Power:** Water Cooled Diesel Engine
**Generator:** 6,000 watts, 120/240 volt, 1ph. @ 60hz
**Fuel:** 15 Gallon Fuel tank
**Run Time:** Up To 15 Hours on Single Tank of Fuel
**Noise Level:** Db level 63 Db @23 ft
**Power Supplies:** 2-120V & 2-240V Class I, Division 1 Receptacles

**LED Lamp Specs**

**Lamp Qty:** (4) LED
**Dimensions:** 16"-OD x 7"-H
**Weight:** -
**Voltage:** 11-25V AC/DC
**Total Watts:** 800W (200W per Lamp)
**Total Lumens:** 112,000 lms
**Luminous Efficacy:** 140 Lm/W

**Trailer - Ratings/Approvals**

External Grounding
Low Oil, High Engine Temp Auto Shut-Off - Spark arrestor and insulate muffler
Three Point Outrigger System
Hour Meter - Charging indicator
Individual Light Switches
Withstands 65Mph Winds at Full Extension
Explosion Proof Receptacles

**LED Lamp - Ratings/Features**

NRTL Listed for United States and Canada
Class I, Division 2, Groups A,C,D
Class II, Divisions 1 & 2, Groups E,F,G
Class III, Divisions 1 & 2
T5 Temperature Rating
Paint Spray Booth Approved
IEC 60529 Tested
IP67 Rated Waterproof
Multiple Driver Banks
80% Lumen Retention after 60,000 Hours
Factory Sealed Light Fixture

**Lamp Life:** 60,000+ Hours
**Color Temp:** 5600K
**Color Rendering Index:** >75 CRI
**Lamp Type:** -
**Lamp Base:** -
**Replacement Lamp:** -
**Beam Angle:** 60°
**Lighting Configuration:**Flood Pattern
**Power Efficiency:** >95%
**Power Factor:** 0.992
**Ambient Operating Temp Range:** -50°C to +65°C
**Operating Temp Rating:** T5
**Housing Material:** Copper Free Cast Aluminum
**Housing Finish:** Epoxy Powder Coated
**Lens Material:** Hardened Borosilicate Glass
**Gasket Material:** Silicone
**Mounting:** Mast

3.5kV Surge Protection (NTC Circuit)

**Special Orders - Special Requirements**
Contact us for special requirements
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**The HAL-WCDE-4X200RT Mobile LED Light Tower from Larson Electronics is a towable lighting package powered by a water cooled diesel engine turning a single bearing 4-pole generator, which produces 6,000 watts and 120/240V@60Hz. The four 200-watt explosion proof LED lamps included with this unit produce 112,000 lumens and will illuminate a 3-4 acre area continuously.**

The HAL-WCDE-4X200RT mobile light tower is a self contained towable LED light tower package that produces enough light to illuminate an area up to 4 acres in size. This unit contains a water cooled diesel engine powering a 6,000 watt generator, which supplies the current for four, Class I, Division 2 200-watt LED lights producing 28,000 lumens each, for a combined total of 112,000 lumens of light. This unit includes a telescoping light mast which can elevate the four LED lamps to a height of 30 feet. This mobile floodlight package is ideal for emergency services, large scale event illumination, construction, mining, industrial operations and anywhere an extended operation capable mobile lighting solution is needed.

The HAL-WCDE-4X200RT mobile light tower includes a water cooled diesel engine that produces 20 horsepower at 1800 rpm. This engine features key operated electric starting, a full twelve volt electrical system, automatic low oil pressure and high temperature safety shutoffs, dual fuel filters and easy access oil and radiator drain ports to facilitate maintenance. The 15 gallon fuel tank is sized to allow the engine to operate for up to 15 hours continuously without refueling.

**Generator:** The 6,000 watt, 6kva generator is a single bearing 4 pole design with Class F minimum insulation producing 120/240 volt, 1ph. @ 60hz. This hazardous location light tower includes an ignition spark arrestor and heat insulated muffler (fiberglass wrap). The generator uses a four wire hookup system with an external ground allowing for setting up both electrical and mechanical safe grounding systems. The system is equipped with two explosion proof EDC-2023 Class 1, Div. 1, 120 Volt AC plugs rated at 15 amps, and two explosion proof EDC-20232 Class I, Div. I 250 Volt plugs rated at 20 amps.

**Lights:** The mobile light tower contains four explosion proof LED flood light fixtures. Each Class I, Division 2 explosion proof light fixture provides 28,000 lumens of high quality light while drawing only 200 watts. The copper free aluminum alloy body is powder coated for added durability and an attractive aesthetic appearance. A special heat dissipating design in conjunction with LED technology helps this fixture to achieve an excellent 60,000-hour rated lifespan with 80% lumen retention.

This explosion proof LED light fixture is paint spray booth listed, IP67 rated, dust-proof, and protected against high pressure jets and temporary submersion. The heavy-duty housing and solid-state design gives this light excellent durability and resistance to vibration and impacts.

**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.

**LED Drivers:** Even in LED fixtures, heat is the single largest factor in premature light failure and color shifting. As a result, many manufacturers reduce the output of their LEDs in order to reduce the amount of heat produced. Rather than lower light output or quality, Larson Electronics addresses this problem with the addition of electronic LED drivers. These internal drivers provide the ability to automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. This not only reduces the energy dissipation, effectively lowering the operating temperature of the fixture, but also prevents AC over-voltage and short circuit loading making this fixture virtually maintenance free. Because the electronic drivers allow the HAL-WCDE-4X200RT to run at a cooler internal temperature and regulates the electrical current, energy efficiency and LED service hours are maximized while at the same time reducing operating costs and downtime incurred from the frequent servicing intervals required with other hotter running lights.

The explosion proof LED light fixture features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. With the HAL-WCDE-4X200RT series of explosion proof lamps from Larson Electronics, each LED fixture contains individual LED boards configured in a series of four banks. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. In the event that of an LED failure, the mating LED will continue to operate.

**Field Serviceability:** This explosion proof LED light fixture is field serviceable. All major internal components can be purchased from Larson Electronics and installed by a licensed electrician with basic tools. With most explosion proof fixtures, the fixture must be returned to the manufacturer for repair work, which presents downtime and long turn around times for repair work. Larson Electronics addresses this issue with the HAL-WCDE-4X200RT series with field serviceability, allowing operators to perform service work without having to return the fixture to the manufacturer in the event of damage or failure.

**Controls:** The operations system for this unit is a centrally located control panel located within the light tower enclosure. Four Class 1 Division 1 switches allow individual on/off control of the lights while an individual hour meter tracks unit operating time. Also included is a battery charging indicator and alternator failure gauges.

**Telescoping Boom:** The telescoping boom consists of three sections extending up to 30 feet through the use of two manual self braking winches and allows for rotating the lights 360 degrees. One winch is mounted to the trailer tongue and acts to raise the tower into a vertical position while the other is mounted to the boom and is used to extend the tower to the desired height. The telescoping boom is constructed of galvanized steel to resist rusting and corrosion and comes powder coated to prevent friction and rusting between tower sections. This system is capable of withstanding 65 mph winds when extended to its full height and the stabilizing outriggers are deployed. The stabilizing outriggers are a three point design stabilizing outriggers with one located under the trailer tongue and two on the rear sides of the unit. The two rear outriggers are adjustable and include 1500 lbs, swivel jacks for leveling and stabilizing the tower.

**Housing:** All of the operating components are housed with a protective compartment constructed of 14 gauge steel and designed to provide airflow for cooling. Side doors provide access to the interior while latches provide secure closing while the unit is in use. The design and construction of this enclosure along with the commercial grade muffler system helps this unit operate at a low 63 Db level @ 23 ft.

**Trailer:** The entire unit is mounted onto a two wheel trailer with a 3,500 lbs leaf spring axle and 15” wheels with protected fenders. A standard two inch ball coupling and two standard safety chains allow for easy hookup and towing. The entire unit can be loaded and unloaded onto trucks via forklift sleeves mounted to the outer section of the light mast. The entire light tower system generator weighs 1850 pounds with shipping dimensions measuring 13 feet long, 8 feet wide and 6 feet tall.

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)

There are no Faqs

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

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