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## HAL-CRNM-LED10W-MS

# 10W Chemical Resistant LED Light - C1D2 / C1D2 - Corrosion Resistant - Motion Sensor

**Product ID: 147247**

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



Image: HAL-CRNM-LED10W-MS

**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-CRNM-LED10W-MS Location Non-Metallic LED Light**

**Unit Type:** Explosion Proof Light
**Lamp Dimensions (Ceiling Mount):** 10.84"H x 4.75"OD
**Lamp Dimensions (Wall Mount):** 7.3"L x 5.19"W x 12.26"H
**Motion Detector Dimensions:** 7"-W x 5"-H x 9"-D
**Detection:** Motion
**Detection Coverage:** 15` x 15` (when mounted at 16`)
**Tilt Angles:** -90° to +30° in elevation
**Voltage:** 120V, 220-240V, 12V DC or 24V DC
**Output Hold Time:** 0.5 seconds to 15 minutes (Adjustable)
**Mains Frequency:** 50/60 Hz
**Radiated Frequency:** 5.8 GHz

**Lamp Type:** A19 LED
**Lamp Watts:** 10W
**Lumens:** 1,050
**Luminous Efficacy:** 105 Lm/W
**Lamp Life:** 50,000+ Hours
**Color Temp:** 6000K, 4500K, 3000K, Red, Blue, Amber, or Green
**Color Rendering Index:** >80 CRI
**Beam Angle:** Omni-Directional

**Ratings/Approvals**

Listed for United States and Canada
Class I, Division 2, Groups A, B, C, D
Class I, Zone 2, Groups IIC, IIB, IIA
Class II, Division 2, Groups F, G
IP66
NEMA 3, 4, 4X
NRTL listed to UL 844 HAL-CRNM-LED10W-MS Locations
NRTL listed to UL 1598/UL 1598A Marine
CSA C22.2 No. 137 HAL-CRNM-LED10W-MS Locations
NRTL listed to UL 94-V-0 Flame Retardant
USCG Accepted
ABS Type Approved
New York City Department of Buildings Approved
Motion Sensor

**Lighting Configuration:**Steady Burn
**Power Efficiency:** >95%
**Power Factor:** 0.992
**Amp Draw:** 0.083A @ 120V, 0.042A @ 240V, 0.42A @ 24V
**Ambient Operating Temp Range:** -50° C to +85°C
**Operating Temp Rating:** T2D
**Housing Material:** Polycarbonate
**Lens Material:** Hardened Borosilicate Glass
**Mounting:** Ceiling or Wall
**Wiring Hub:** 3/4" NPT
**Weight:** 9 lbs

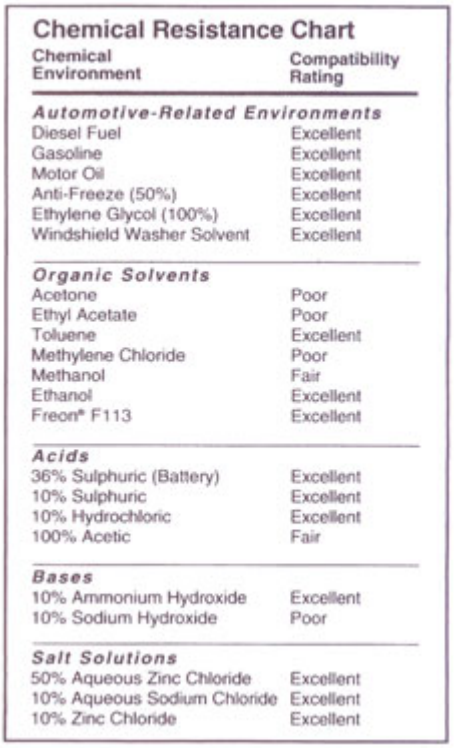
**Special Orders - Special Requirements**
Contact us for special requirements
**Toll Free:** 1-800-369-6671
**Intl:** 1-903-270-1187
**E-mail:** sales@larsonelectronics.com

**Made in the USA**

**The HAL-CRNM-LED10W-MS Chemical Resistant LED Light w/ Motion Sensor from Larson Electronics is designed for notification lighting in hazardous locations. This Class I/II, Division 2 rated unit is IP66 waterproof and is capable of detecting movement in a 15` x 15` target area when mounted from 16`. Operators may choose the preferred voltage, mounting system (ceiling or wall) and light color, when ordering the explosion proof luminary.**

The durable explosion proof LED light is highly suitable for industrial applications, hazardous work spaces and areas where gases and vapors may be present. The 10-watt LED lamp produces nearly 3 times the illumination of incandescent lamps, as measured in foot candles, at less than 1/10th of electricity usage without the associated heat. The housing on the LED luminary is constructed of corrosion and chemical resistant polycarbonate with Pyrex globe.

The HAL-CRNM-LED10W-MS comes with a powerful motion detection feature that automates the light`s sensing capabilities. The sensor provides up to 15` by 15` coverage when mounted at a height of 16 feet. The detector component is constructed of copper-free, non-sparking aluminum with a glass window for motion detection. This sensor can be adjusted -90° to +30° vertically after installation. The explosion proof housing provides two 1/2" or 3/4" hub openings located on either side of the housing for running electrical conductors in a feed-through configuration. A bushing seal at each conductor opening prevents damage to wiring insulation.



Chemical Resistance Chart

| Chemical Environment | Compatibility Rating |
|---|---|
| *Automotive-Related Environments* | |
| Diesel Fuel | Excellent |
| Gasoline | Excellent |
| Motor Oil | Excellent |
| Anti-Freeze (50%) | Excellent |
| Ethylene Glycol (100%) | Excellent |
| Windshield Washer Solvent | Excellent |
| *Organic Solvents* | |
| Acetone | Poor |
| Ethyl Acetate | Poor |
| Toluene | Excellent |
| Methylene Chloride | Poor |
| Methanol | Fair |
| Ethanol | Excellent |
| Freon® F113 | Excellent |
| *Acids* | |
| 36% Sulphuric (Battery) | Excellent |
| 10% Sulphuric | Excellent |
| 10% Hydrochloric | Excellent |
| 100% Acetic | Fair |
| *Bases* | |
| 10% Ammonium Hydroxide | Excellent |
| 10% Sodium Hydroxide | Poor |
| *Salt Solutions* | |
| 50% Aqueous Zinc Chloride | Excellent |
| 10% Aqueous Sodium Chloride | Excellent |
| 10% Zinc Chloride | Excellent |

Click Photo to Enlarge

**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.

**Applications:** Notification lighting, warning system light, entry/exit notification light, security detection system, monitoring system in hallways, paths and rooms in hazardous locations.

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

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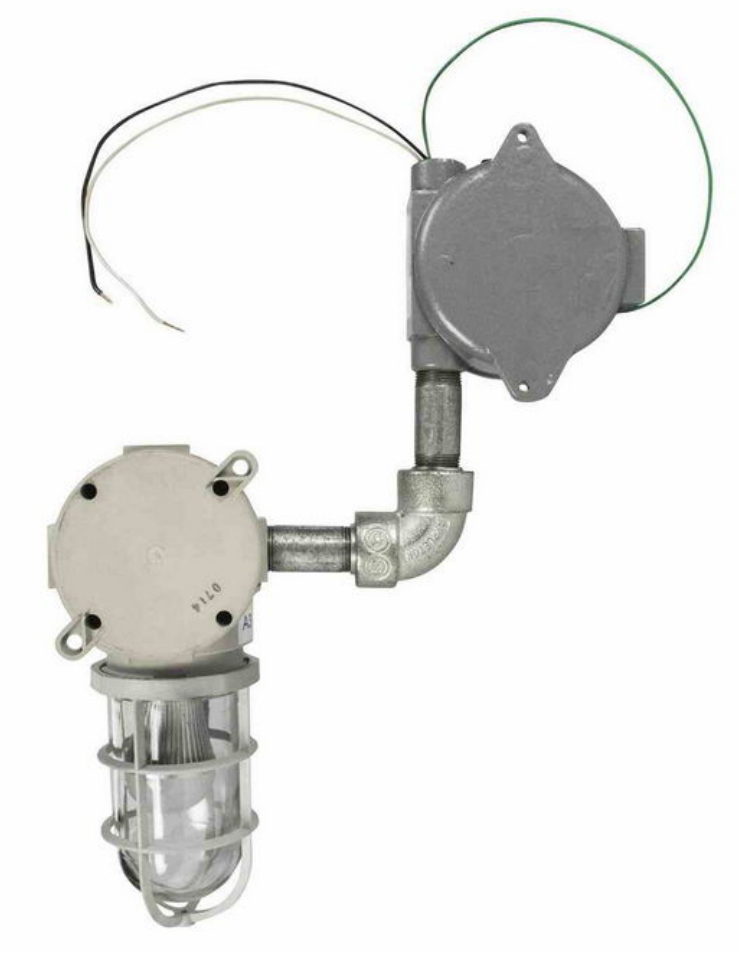


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**HAL-CRNM-LED10W-MS**

**Product ID: 147247**

**Warranty:** 36 Months.

**Harmonized System (HS) Code:** 9405.41.84.10
**Export Control Classification Number (ECCN):** EAR99

**Options:**

**HAL-CRNM-LED10W-MS-Voltage-Mount-Color**
**Example: HAL-CRNM-LED10W-MS-120V-CLG-60K**

| Voltage | |
|---|---|
| 120V | -120V |
| 220-240V | -220-240V |
| 12V DC | -12VDC |
| 24V DC | -24VDC |

| Mount | |
|---|---|
| CEILING | -CLG |
| WALL | -WAL |

| Color | |
|---|---|
| 6000K WHITE | -60K |
| 4500K WHITE | -45K |
| 3000K WHITE | -30K |
| RED | -RED |
| BLUE | -BLU |
| AMBER | -AMB |
| GREEN | -GRN |

Links (Click on the below items to view):

- **Operations Manual**( https://www.larsonelectronics.com/images/product/Manual/147247.PDF )
- **Wiring Diagram**( https://www.larsonelectronics.com/images/product/WiringDiagram/147247.PDF )
- **HigResPic1**( https://www.larsonelectronics.com/images/product/HigResPic1/147247.JPG )
- **HigResPic2**( https://www.larsonelectronics.com/images/product/HigResPic2/147247.JPG )
- **HigResPic3**( https://www.larsonelectronics.com/images/product/HigResPic3/147247.JPG )
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- **HigResPic6**( https://www.larsonelectronics.com/images/product/HigResPic6/147247.JPG )
- **ISO 9001 Certification**( http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF )
- **Business Certificate**( https://www.larsonelectronics.com/images/pdfdocs/w9.PDF )
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