



## APPLETON™ HAZARDOUS MERCMASTER™ LED LOW PROFILE EMERGENCY BATTERY BACKUP LUMINAIRES

### SUITABLE LOCATIONS AND APPLICATIONS

- Enclosed and gasketed fixtures suitable for use in:
  - A wide range of industrial, chemical processing and other areas where flammable gases, vapors, and dusts are present
  - Marine and wet locations
  - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
- Typical applications include:
  - Walkways/catwalks
  - Stairwells
  - Grain elevators
  - Tunnels
  - Pipe racks
  - Offshore rigs
  - Vessel lighting
  - Cooling towers
  - Processing areas

### FEATURES

- Three light output levels for retrofit of HID fixtures up to 175 W.

Nominal Lumens ①	HID Equivalent	Model Number
3300	70–100W	MLLED2
4400	100–150W	MLLED3
5500	150–175W	MLLED4

① Nominal lumen value for 5000K, clear glass globe. Type V. Detailed lumen information is provided in tables in catalog pages.

- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white.
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III, Mercmaster™ Premium LED and Mercmaster™ LED Generation 3.
- Customize to the application requirements with three different field replaceable globe options: clear and diffused polycarbonate and clear glass.

- Provides up to 1400 lumens illumination for 90 minutes of emergency lighting with clear lens or 800 lumens illumination for 180 minutes of emergency lighting.
- Functional diagnostic test self-initiates every 14 days after initial start up.
- Duration test is automatically performed once per year.
- Green and Red LED lamps indicate charging status and provide fault warning.
- Simple quick disconnect connector disconnects power between LEDs and battery management module to allow maintenance in hazardous locations.
- Compact light weight low profile design is suited for low mounting heights.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- Standard 6 kV surge protection.
- Ambient Temperature: BU: -20 °C to +55 °C (-4 °F to +131 °F)
- Standard screw-type terminal block can accept UL/CSA 26-10 AWG wire.
- Heavy duty, high temperature silicone rubber gaskets.
- LED L70 rated at 109,000 Hours @ +25 °C (+77 °C).
- Field replaceable globes, battery management module (BMM), battery pack and LED driver.
- Rugged housing with superior thermal design translates to long luminaire life.
- Retrofit adapters for Crouse Hinds™ hood available. See Mercmaster CH Adapters.

### OPTIONS

- Glass globe guard available, purchase separately.

### STANDARD MATERIALS

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Reflector: heat-resistant prismatic glass
- Glass globe guard: stainless steel wire
- Reflector: fiberglass reinforced white polyester

### STANDARD FINISHES

- Mounting hoods, bodies and glass refractor guard: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

### RELATED PRODUCTS

- Mercmaster™ Retrofit Adapters
- Mercmaster™ III Products
- Mercmaster™ Generation 3 Products

### ACCESSORIES

- Safety Cable - LEDSC
- Globe Guard - MGU1
- Angled Reflector - CMR4AN

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# APPLETON™ HAZARDOUS MERCMASTER™ LED LOW PROFILE EMERGENCY BATTERY BACKUP LUMINAIRES

## NEC/CEC RATINGS

- Class I, Division 2, Group A, B, C, D
- Class I, Zone 2, Group IIC
- Class II, Division 1, Group E, F, G
- Zone 21, Group IIIC
- Class II, Division 2 Groups F,G
- Class III
- Suitable for use in Wet Locations
- Type 3R, 4 and 4X
- IP66/IP67
- Simultaneous Exposure
- American Bureau of Shipping (ABS) Certified
- Master Contract 164460; Certificate number 70134063

## NEC/CEC CERTIFICATIONS AND COMPLIANCES

- UL Standards: UL1598, UL1598A, UL8750, UL50E, UL 844, UL294
- CSA Standards: C22.2 No. 0-10; C22.2 No. 94.2-15; C22.2 No. 137 -18; C22.2 No. 250.0 - 08; C22.2 No. 250.13 - 14; C22.2 No. 141-15
- NEMA, ANSI/IEC Standard: 60529
- cCSAus Listed: Master Contract 164460

<p><b>MLED</b></p> <p>MLED NEC/CEC Certified Mercmaster™ LED Low Profile with Emergency Battery Backup Series</p>	<p><b>A</b></p> <p><b>Mounting:</b></p> <p>A - Pendant C - Ceiling D - Pendant Cone Hood R - 90° Stanchion S - 25° Stanchion T - Trunnion W - Wall X - Crouse-Hinds™ Adapter, Centered Y - Crouse-Hinds™ Adapter, Off-set Blank - No mounting hood</p>	<p><b>4</b></p> <p><b>Lumen Output ①:</b></p> <p>2 - 3K Lumens 3 - 4K Lumens 4 - 5K Lumens</p>	<p><b>2</b></p> <p><b>Hub Size:</b></p> <p>2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - M20 Metric hub Blank - No Hub Required - Adapters or no mountig hood</p>	<p><b>C</b></p> <p><b>Color Temperature:</b></p> <p>C - Cool, 5000K CCT N - Neutral, 4000K CCT W - Warm, 3000K CCT</p>	<p><b>J5</b></p> <p><b>Globe Type:</b></p> <p>P5 - NEMA Type V Clear Polycarbonate Globe D5 - NEMA Type V Diffused Polycarbonate Globe G5 - NEMA Type V Glass Globe ②</p>	<p><b>BU</b></p> <p><b>Voltage:</b></p> <p>BU - 120-277 Vac, 50/60Hz</p>	<p><b>H</b></p> <p><b>Emergency:</b></p> <p>H - 90 Minutes</p>
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### Example part number: MLEDA42CD5BUH

This is a Mercmaster™ LED Low Profile Series luminaire with a pendant mount, 5000 lumen output, 3/4" NPT hub size, 5000K CCT color temperature, with a NEMA Type V Diffused Polycarbonate globe. The voltage is 120-277 Vac or 50/60Hz. It comes with a 90 minute Emergency Battery Backup.

	MLED2			MLED3			MLED4		
	BU			BU			BU		
<b>Voltage Range</b>	BU: 120-277 Vac, 50/60Hz								
<b>Input Power (@ 120V)</b>	28W			38W			48W		
<b>Color Temperature (CCT)</b>	5000K	4000K	3000K	5000K	4000K	3000K	5000K	4000K	3000K
- P5 Lumens	3200	3000	3000	4200	4000	3900	5300	5000	4900
- D5 Lumens	3100	2900	2900	4100	3900	3800	5150	4900	4800
- G5 Lumens	3300	3100	3100	4400	4200	4100	5500	5200	5100
- P5 Lumens	1400	1270	1150	1400	1270	1150	1400	1270	1150
- D5 Lumens	1350	1200	1100	1350	1200	1100	1350	1200	1100
- G5 Lumens	1450	1330	1200	1450	1330	1200	1450	1330	1200
<b>Line Current</b>	0.27 @ 120V 0.13 @ 277V			0.33 @ 120V 0.16 @ 277V			0.42 @ 120V 0.20 @ 277V		
<b>NEC/CEC T-Code (@ 55 °C simultaneous use)</b>	T4A			T5			T4A		
<b>Ambient Temperature</b>	-20 °C to +55 °C (-4 °F to +131 °F)								
<b>CCT/CRI</b>	5000K, 4000K, 3000K/70 CRI								
<b>Fixture Weight</b>	13.8 lb. (without hood)								
<b>Warranty</b>	60,000+ hours; 5 years								

① For specific lumen output information, see Lamp Comparison Chart in Mercmaster™ Low Profile LED catalog pages.

② Guards for the glass globes are ordered separately. See Mercmaster™ Low Profile LED Catalog pages.