MERCMASTER™ LED LOW PROFILE LUMINAIRES FOR HAZARDOUS LOCATIONS

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
  - Pipe racks
  - Offshore rigs
  - Offshore platforms
  - Vessel lighting
  - Cooling towers
  - Processing areas

FEATURES
- 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™ IIILED Generation 3.
- Customize to the application requirements with four different field replaceable globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
- Three light output levels for retrofit of HID fixtures up to 175 W.
- New Watertight Pendant Hood available to address water ingress into luminaire via conduit.
- 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:
  - BL: -40°C to +65°C (-40°F to +149°F)
  - BH: -40°C to +65°C (+40°F to +149°F)
- Standard screw-type terminal block can accept UL/CSA 26-10 AWG wire.
- Heavy duty, high temperature silicone rubber gaskets.
- Standard NPT threads.
- LED L70 rated at 109,000 Hours with a calculated fixture life of 200,000 hours @ +25°C (+77°F).
- Field replaceable globes and LED driver.
- Rugged housing with superior thermal design translates to long luminaire life.
- Photobiological Safety, per IEC standards

OPTIONS
- Glass globe and glass refractor guard available, purchase separately.
- All Mercmasters have provision for fusing; add suffix -F at the end of the catalog number.
- Photocontrols are available with all except ceiling and pendant cone mounting hoods. Add suffix -1 for 120V, -2 for 208V, -3 for 240V, -4 for 277V.

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
- Refractor: heat-resistant prismatic glass
- Glass globe guard: stainless steel wire
- Glass refractor guard: die cast aluminum
- 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

DESIGN LIGHTS™ CONSORTIUM
- Check DLC QPL for listed products

ACCESSORIES
- Safety Cable - LEDSC
- Refractor Guard - KR2
- Globe Guard - MGU1
- Angled Reflector - CMRAAN
- Visor - MMVISOR

Nominal Lumens | HID Equivalent | Model Number
---------------|----------------|-------------------
3300           | 70–100W        | MLLLED2CGSBU
4400           | 100–150W       | MLLLED3CGSBU
5500           | 150–175W       | MLLLED4CGSBU

For product information:
www.appletonelec.com
1.800.621.1506
**MERCMASTER™ LED LOW PROFILE LUMINAIRES FOR HAZARDOUS LOCATIONS**

**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 20, Group IIIIC
- Zone 21, ATEX ib IIIC, Ex tb IIIC
- Class III
- Suitable for use in Wet Locations
- Marine Outside Type (Salt Water) For USA ONLY
- Type 3R, 4 and 4X
- IP66/IP67
- Simultaneous Exposure
- American Bureau of Shipping (ABS) Certified
- International Dark Sky (IDA) Approved

**ATEX/IECEx CERTIFICATIONS AND COMPLIANCES**
- Exe IC T° Cc
- Ex op is tb IIIC T**° CDb
- Ex tc III/t°C Dc
- IP66
- IK08

**NEC/CEC CERTIFICATIONS AND COMPLIANCES**
- UL Standards: UL1598, UL1598A, UL8750, UL50E, UL 644
- CSA Standards: C22.2 No. 0-10; C22.2 No. 94.2-15; C22.2 No. 137 – M1981; C22.2 No. 250.0 – 08; C22.2 No. 250.13 – 14; C22.2 No. 260598-116;
- NEMA, ANSI/IEC Standard: 60529
- cCSAus Listed: Master Standard 164460, Certificate Number 70134063

**Example part number:** MLLED4A2CJ5BU1

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 Glass Refractor globe. The voltage is 120-277 VAC or 125-300 VDC, 50/60Hz. It has a 120V photocontrol.

<table>
<thead>
<tr>
<th>MLLED2</th>
<th>MLLED3</th>
<th>MLLED4</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU</td>
<td>BU</td>
<td>BU</td>
</tr>
<tr>
<td>Voltage Range</td>
<td>BU: 120–277 VAC, 125–300 VDC, 50/60Hz</td>
<td>BH: 347–480 VAC, 50/60Hz</td>
</tr>
<tr>
<td>Input Power (@ 120V)</td>
<td>28W</td>
<td>38W</td>
</tr>
<tr>
<td>Color Temperature (CCT)</td>
<td>5000K</td>
<td>4000K</td>
</tr>
<tr>
<td>- PS Luminous</td>
<td>3.200</td>
<td>3.000</td>
</tr>
<tr>
<td>- DS Luminous</td>
<td>3.100</td>
<td>3.090</td>
</tr>
<tr>
<td>- GS Luminous</td>
<td>3.300</td>
<td>3.100</td>
</tr>
<tr>
<td>- JS Luminous</td>
<td>3.400</td>
<td>3.400</td>
</tr>
<tr>
<td>Line Current</td>
<td>0.08 @ 120V</td>
<td>0.03 @ 277V</td>
</tr>
<tr>
<td>NEC/IEC T-Code (@ 65 °C simultaneous use)</td>
<td>14A</td>
<td>14A</td>
</tr>
<tr>
<td>ATEX/IECEx Zone 2 T-Code</td>
<td>MLLED2 = T4 @ +65 °C (+149 °F)</td>
<td>MLLED3 = T4 @ +65 °C (+149 °F)</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>-40 °C to +65 °C (-40 °F to +149 °F)</td>
<td></td>
</tr>
<tr>
<td>CCT/CRI</td>
<td>5000K, 4000K, 3000K/70 CRI</td>
<td></td>
</tr>
<tr>
<td>Fixture Weight</td>
<td>10.1 lb. (without hood)</td>
<td></td>
</tr>
<tr>
<td>Warranty</td>
<td>60,000+ hours; 5 years</td>
<td></td>
</tr>
</tbody>
</table>

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

*Guards for the glass refractors and globes are ordered separately. See Mercmaster™ Low Profile LED Catalog pages. J5 glass refractor is available for cCSAus rating only.

*Ceiling and pendant cone hood mounted luminaires are not designed to use the PCO2 photocell. Ceiling mounts must use an FS/TV box with a photocell. Contact your local sales representative for more information.

*Certified for cCSAus only.

*Refer to ambient range table contained in the IECEx certificate of conformity or the T-code ratings table in the catalog pages.