



HAZARDOUS MERCMASTER™ LED GENERATION 3 SERIES LUMINAIRE

APPLICATIONS

- Enclosed and gasketed fixtures suitable for use in:
 - A wide range of industrial, chemical processing and other areas where flammable gases and vapors or combustible dusts may be present
 - Marine and wet locations
 - Suitability includes use where there may be simultaneous exposure to flammable gases and vapors or combustible dusts
- Typical applications include:
 - Power plants
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Waste and sewage treatment
 - Other areas where dust, water, dirt and rough usage are a problem

FEATURES

- Modular design provides thousands of combinations for maximum versatility.
- Design is suited for mounting heights ranging from 2 m (7 ft), up to 15 m (50 ft).
- Nine light outputs provide up to 26,000 lumens (5000K CCT, Type V light distribution, and clear glass globe).

Nominal Lumens ①	HID Equivalent	Model Number
3500	70-100W	MLGL3
5500	100-150W	MLGL5
7500	175-250W	MLGL7
9500	250-350W	MLGL9/MLGH9
11,500	350-400W	MLGH1
14,500	400W	MLGH3
17,500	400-600W	MLGH6
20,000	600-750W	MLGX1
24,000	1000W	MLGX5

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

- Choice of optics for optimal light distribution in a variety of applications: Type I, Type III, Type V or Type V Wide.
- Choice of color temperature (CCT): 5000K cool white (70 CRI min), 4500K mid-neutral (80 CRI min), 4000K neutral white (80 CRI min), 3500K mid-warm (80 CRI min), or 3000K warm white (80 CRI min).

- Options for High Ambient luminaires (up to 75 °C [167 °F]). Add -A at end of eligible part numbers. See T-Code table in catalog pages for specifics.
- Customize to the application requirements with four different globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster III.
- Retrofit adapters for Crouse-Hinds™ †, Mercmaster II, and Killark † hoods available. See Mercmaster LED Adapters.
- New Watertight Pendant Hood with IP 68 cord grip 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 installation.
- Rugged housing with superior thermal design translates to long luminaire life.
- Luminaire housing has wiring compartment with terminal block separate for easy wiring access.
- Standard screw-type terminal block can accept UL/CSA .14 to 6 mm² (26-10 AWG) wire.
- Standard 6 kV surge protection. Optional 10 kV available.
- Heavy duty, high temperature silicone gaskets.
- Photometric data and electronic drawings available upon request.
- Ambient Temperature (standard product): -40 °C to +65 °C (-40 °F to +149 °F). Higher ambient options available on select configurations. See T-Code table for details.
- Standard NPT threads with M20 option.
- LED L70 reported at 76,000 hours.
- Field replaceable globes and LED driver.
- 10 Year warranty standard for select part numbers (see ordering tree for details).

STANDARD MATERIALS

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Refractor: heat-resistant prismatic glass
- Glass globe guard and safety cable: stainless steel wire
- Glass refractor guard: die cast aluminum

STANDARD FINISHES

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

OPTIONS

- Globe and refractor guards available, purchase separately
- Safety cable available, purchase separately.
- All Mercmaster luminaires have provision for fusing; add suffix -F at the end of the catalog number.
- All Mercmaster LED Generation 3 luminaires have option for 10 kV surge protection. Add suffix -S at the end of the catalog number.
- Some lumen output luminaires offer High Ambient temperature option up to 70 °C or 75 °C (158 °F or 167 °F). See catalog logic tree for specifics.
- Photocontrols are available and are configured to your operating voltage. Add suffix -1 for 120V, -2 for 208V, -3 for 240V, -4 for 277V.
- Drain is available to divert water existing in the conduit system, *purchase separately*.

DESIGN LIGHTS™ CONSORTIUM

- Check DLC QPL for current list of products.

INTERNATIONAL DARK-SKY ASSOCIATION

- IDA Dark Sky Approved when ordering [I]MLG[A/B/C/D]/R/W]xxW[P/D/G]5Bxxx with MMVISOR accessory.

† Killark is a registered trademark of Hubbell Incorporated.
 † Crouse-Hinds is a registered trademarks of Cooper Crouse-Hinds.

APPLETON™

For product information:
www.masteringled.com
 1.800.621.1506



CONSIDER IT SOLVED™

HAZARDOUS MERCMASTER™ LED GENERATION 3 SERIES LUMINAIRES

NEC/CEC RATINGS

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1 and 2, Group E, F, G
- Class III
- Class I, Zone 2 AEx ec IIC
- Zone 21 AEx tb IIIC
- Class I, Zone 2 Ex ec II
- Zone 21 Ex tb IIIC
- Type 3R, 4, 4X
- IP66/IP67

NEC/CEC RATINGS

- Simultaneous Exposure
- Suitable for Use in Wet Locations
- Marine Outside Type (Salt Water)
- American Bureau of Shipping (ABS) Certified
- International Dark Sky (IDA) Approved

NEC/CEC CERTIFICATIONS AND COMPLIANCES

- UL Standard: UL 844; UL 1598; UL 50E; UL 8750; UL 60079-0; UL 60079-7; UL 60079-31
- CSA Standard: 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. 60529; C22.2 No. 60079-0:15; C22.2 No. 60079-7:16; C22.2 No. 60079-31:15; CSA E60598-1:16
- NEMA ANSI/IEC Standards: 60529
- cCSAus: 164460, Certificate Number: 70112879

CATALOG NUMBERING GUIDE

MLG	A	L3	2	C	P	5	BU	E	1
Series: MLG - Mercmaster LED Generation 3 Series	Mounting: A - Pendant B - Watertight Pendant ▲ C - Ceiling ⑥ D - Pendant Cone ⑥ R - 90° Stanchion ① S - 25° Stanchion ① T - Trunnion K - Killark™ Adapter Universal ▲ U - Mercmaster II Adapter, Ceiling or Pendant ▲ V - Mercmaster II Adapter, Stanchion or Wall ▲ W - Wall X - Crouse Hinds™ Adapter, Ceiling or Pendant ▲ ⑦ Y - Crouse Hinds™ Adapter, Stanchion or Wall ▲ Blank - No mounting hood	Lumen (nominal): L3 - 3,500 L5 - 5,500 L7 - 7,500 L9 - 9,500 H9 - 9,500 ⑧ H1 - 11,500 H3 - 13,500 H6 - 17,500 X1 - 20,000 X5 - 24,000	Hub Size: 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 Blank - If using adapter or no hood	Color Temperature: ‡ C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K	Globe Material: P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe ③ J - Glass Prismatic Refractor ③ ⑩	Options: 1 - Photocontrol 120V ⑤ 2 - Photocontrol 208V ⑤ 3 - Photocontrol 240V ⑤ 4 - Photocontrol 277V ⑤ 5 - Additional surge to 10 kV ② A - High Ambient ④ Blank - No Options Chosen	Light Distribution Pattern: 1 - Type I ② 3 - Type III ② 5 - Type V ② W - Type V Wide	Voltage: BU - 120-277 Vac, 50/60Hz; or 125-300 Vdc ⑥ BH - 347-480 Vac, 50/60 Hz ▲	Options: ⓧ F - Fusing Blank - No fusing

- ① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in this mounting option.
- ② 10 year warranty standard when ordered with light distribution pattern Type I, III or V Wide or additional (10 kV) surge protection (not available with high ambient options). 10 kV surge is not rated for ATEX/IECEx.
- ③ Guards for the glass refractors and globes are ordered separately. See the Accessories for more information.
- ④ See details in T-Codes tables for specific model numbers.
- ⑤ Luminaires with photocontrol are not rated IP66/67, Class II, 3R, 4, 4X, or Marine Outside Type (Salt Water). Photocontrol available for 120-277 Vac only. Factory installed in the mounting hood. Photocontrols only certified for cCSAus.
- ⑥ Ceiling-mount and pendant cone mounting hoods and adapters are not designed to use the in hood photocontrol. Ceiling and pendant cone mounts must use an FS/FD box with photocontrol.

- ⑦ Only allowed for Type V and Type V wide light distribution.
- ⑧ For 125-170 Vdc, operating temperature range is -40°C to +55°C (-40 °F to +131 °F) (lower range applies to IECEx/ATEX only).
- ⑨ H9 only available with High Ambient option (A).
- ⑩ J - Glass prismatic refractor is only available in light distribution pattern Type V. Refractor is not rated for ATEX/IECEx.
- ⓧ Fusing only permitted for NEC/CEC rating. Factory installed. Use of fuse voids Marine Outside Type (Salt Water) rating. Fusing is mounted in the driver housing.
- ‡ Other CCT options available upon request. Contact your local sales representative for more information.
- ▲ Adapters, watertight pendant hood and BH Voltage only certified for NEC/CEC.

APPLETON™

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