Mercmaster™ LED Low Profile Luminaires
Enclosed and Gasketed Fixtures

NEC/CEC:	NEC/CEC:	ATEX:	IECEx:
Class I, Division 2, Groups A,B,C,D	*Type 3R, 4, 4X*	*Zone 2 and 21-22*	*Zone 2 and 21-22*
Class I, Zone 2, AEx ec IIC	*IP66/IP67*	*⟨Ex⟩ II 2 D*	*Ex ec IIC*
Zone 21, AEx tb IIIC	*Simultaneous Exposure*	*⟨Ex⟩ II 3 GD*	*Ex op is tb IIIC*
Class I, Zone 2 Ex ec II	*Suitable for Use in Wet Locations*	*IP66*	*Ex tc IIIC*
Class II, Division 1, Groups E,F,G	*Marine Outside Type (Salt Water) For USA ONLY* ⌘	*IK08*	*IP66*
Zone 20, Group IIIC	*American Bureau of Shipping (ABS) Certified*		*IK08*
Class II, Division 2, Groups F,G	*International Dark Sky (IDA) Approved*		
Class III			

Applications

- Enclosed and gasketed fixtures suitable for use in:
  — A wide range of industrial, chemical processing and other areas where flammable gases, vapors and combustible dusts are present including simultaneous exposure
  — 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

- 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 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.

Nominal Lumens ①	HID Equivalent	Model Number
3300	70-100W	MLLED2CG5BU
4400	100-150W	MLLED3CG5BU
5500	150-175W	MLLED4CG5BU

- Retrofit adapters for Crouse Hinds™ hood available. See Mercmaster CH Adapters.
- Retrofit adapters for Mercmaster II hoods available. See Mercmaster II Adapters.
- Retrofit adapter for Killark™✧ hoods available. See Killark™ Adapter.
- 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: BU: -40 °C to +65 °C (-40 °F to +149 °F) BH: -40 °C up to +65 °C (-40 °F up 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 °C).
- 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 Mercmaster™ luminaires have provision for fusing; add suffix **–F** at the end of the catalog number. ③
- 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. ④

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

NEC/CEC Certifications and Compliances

- UL Standard: UL 50E, Second Edition; UL 844, Thirteenth Edition; UL 1598, Third Edition; UL 1598A, First Edition; UL 8750, Second Edition;
- CSA Standard: C22.2 No 0-10; C22.2 No. 94.2-15; C22.2 No. E60598-1:16; C22.2 No. 137-M1981; C22.2 No. 250.0-.08; C22.2 No. 250.13-14
- ANSI/IEC Standard: 60529
- cCSAus Listed: 164460

① *Prismatic glass refractor is cCSAus certified only.*
② *Nominal Lumen value for 5000K CCT, clear glass globe. Detailed lumen information is provided in tables.*
③ *Factory installed. Fusing only permitted for cCSAus rating. (For retrofit applications, fusing must be removed from the mounting hood and ordered in the luminaire).*
④ *Available for 120-277 VAC models only. NEC, Class I, Division 2 photocells for classified use are available, see PCD2 Series.*
⑤ *Mounting hoods with photocontrols are not rated IP66, Type 4X or Marine Outside Type (Salt Water), or rated Class II, but are suitable for wet locations.*
⌘ *Use of fuse voids Marine Outside Type (Salt Water) rating.*
✧ *Killark is a registered trademark of Hubbell Incorporated*
✛ *Crouse-Hinds is a registered trademarks of Cooper Crouse-Hinds.*

APPLETON

LED/AREA: NEC/CEC, ATEX/IECEx ENCLOSED AND GASKETED

EMERSON

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

Mercmaster™ LED Low Profile Family Tree

Adapters		Wateright Pendant Hood ②	Trunnion Mount	Pendant Mount ①	Pendant Cone Mount	Ceiling Mount	Wall Mount ①	25° Stanchion Mount ①	90° Stanchion Mount ①
Centric Adapters ③	Off–Centric Adapters ③	KPA–WT	KPCT	KPA	KPCH	KPC	KPWB	KPS	KPST

Ballast Housing
(3000 – 5500 Lumens)

MLLED

Glass Globe	Polycarbonate Globes	Prismatic Glass Refractors
VPGL–GLASS (Clear)	**VPGL–LED** (Clear) **VPGL–DIFF** (Diffused)	**LPG–R5** ② (NEMA Type V) *Prismatic glass refractor not IEC certified.*

Globe Guards (Optional Accessory)

Refractor Guard (Optional Accessory)

MGU1

KRG2

White Polyester Reflector
(Optional Accessory)

Gray Aluminum Visor
(Optional Accessory)

CMR–4AN (30° Angle)

MMVISOR

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① *Mounting hood with a 120 V or 208-277 V factory installed photocell is available.*
② *Certified for cCSAus only.*
③ *See mounting hood section for part numbers.*
⌘ *Use of fuse voids Marine Outside Type (Salt Water) rating.*

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Class I, Division 2, Groups A,B,C,D
Class I, Zone 2, AEx ec IIC
Zone 21, AEx tb IIIC
Class I, Zone 2 Ex ec II
Class II, Division 1, Groups E,F,G
Zone 20, Group IIIC
Class II, Division 2, Groups F,G
Class III

NEC/CEC:
Type 3R, 4, 4X
IP66/IP67
Simultaneous Exposure
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water) For USA ONLY ⌘
American Bureau of Shipping (ABS) Certified
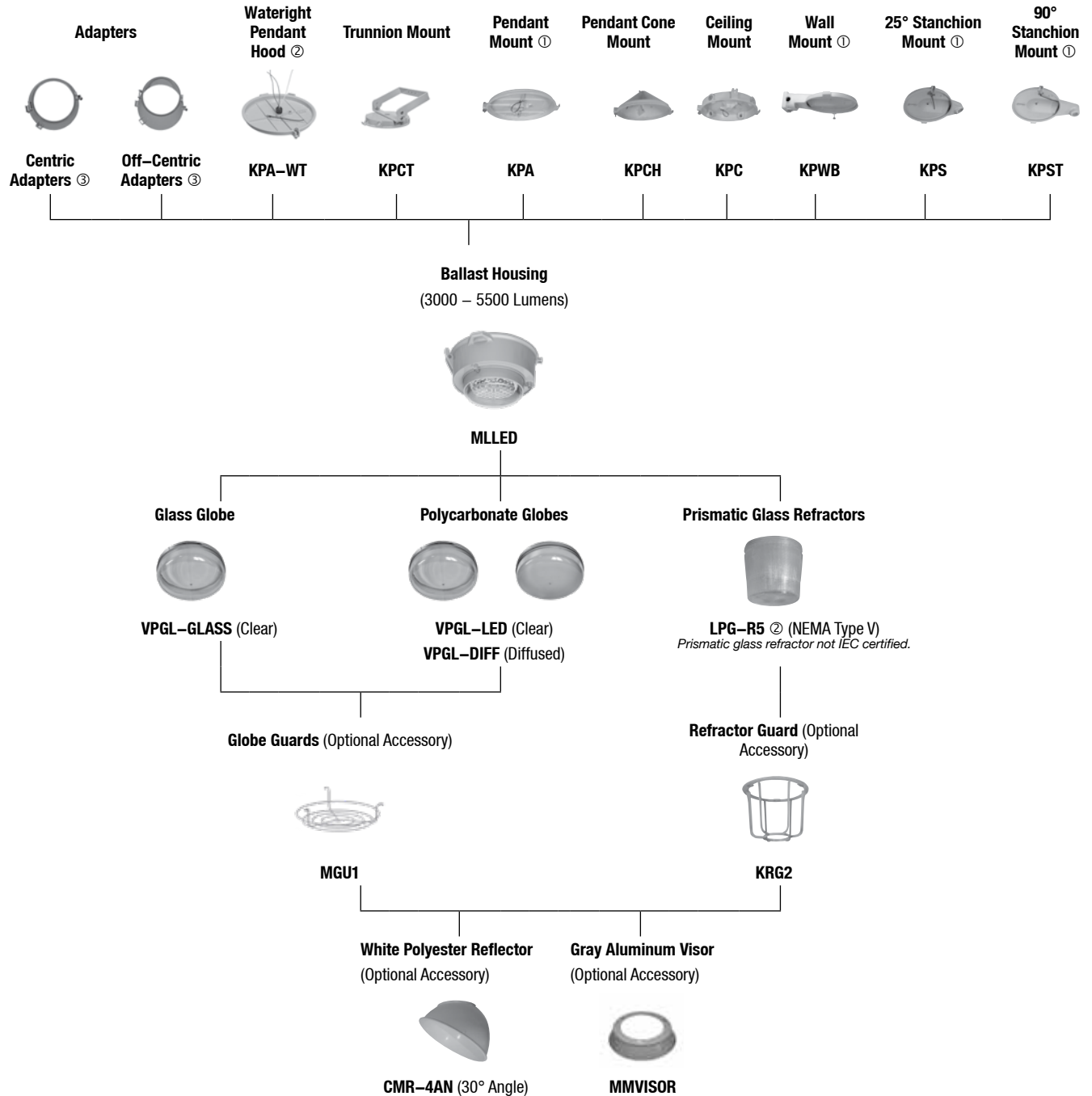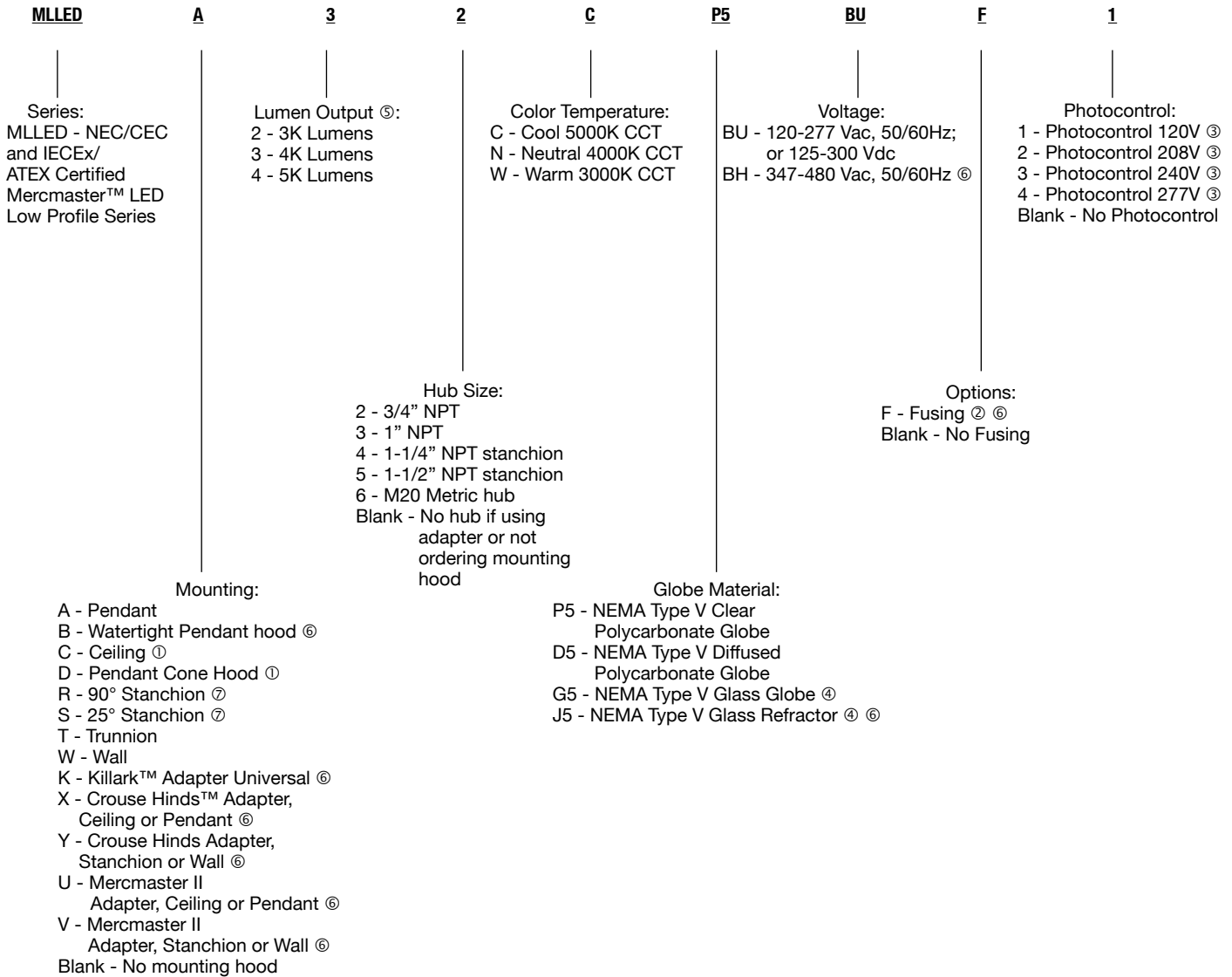*International Dark Sky (IDA) Approved*

ATEX:
Zone 2 and 21-22
⟨Ex⟩ II 2 D
⟨Ex⟩ II 3 GD
IP66
IK08

IECEx:
Zone 2 and 21-22
Ex ec IIC
Ex op is tb IIIC
Ex tc IIIC
IP66
IK08

Order using catalog numbering guides below or select catalog number from tables on following pages.

Catalog Numbering Guide
For Hazardous Locations:

| MLLED | A | 3 | 2 | C | P5 | BU | F | 1 |

Series:
MLLED - NEC/CEC and IECEx/ATEX Certified Mercmaster™ LED Low Profile Series

Lumen Output ⑤:
2 - 3K Lumens
3 - 4K Lumens
4 - 5K Lumens

Color Temperature:
C - Cool 5000K CCT
N - Neutral 4000K CCT
W - Warm 3000K CCT

Voltage:
BU - 120-277 Vac, 50/60Hz; or 125-300 Vdc
BH - 347-480 Vac, 50/60Hz ⑥

Photocontrol:
1 - Photocontrol 120V ③
2 - Photocontrol 208V ③
3 - Photocontrol 240V ③
4 - Photocontrol 277V ③
Blank - No Photocontrol

Hub Size:
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 if using adapter or not ordering mounting hood

Options:
F - Fusing ② ⑥
Blank - No Fusing

Globe Material:
P5 - NEMA Type V Clear Polycarbonate Globe
D5 - NEMA Type V Diffused Polycarbonate Globe
G5 - NEMA Type V Glass Globe ④
J5 - NEMA Type V Glass Refractor ④ ⑥

Mounting:
A - Pendant
B - Watertight Pendant hood ⑥
C - Ceiling ①
D - Pendant Cone Hood ①
R - 90° Stanchion ⑦
S - 25° Stanchion ⑦
T - Trunnion
W - Wall
K - Killark™ Adapter Universal ⑥
X - Crouse Hinds™ Adapter, Ceiling or Pendant ⑥
Y - Crouse Hinds Adapter, Stanchion or Wall ⑥
U - Mercmaster II Adapter, Ceiling or Pendant ⑥
V - Mercmaster II Adapter, Stanchion or Wall ⑥
Blank - No mounting hood

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① Ceiling and pendant cone hood mounted luminaires are not designed to use the PCD2 photocontrol. Ceiling mounts can be used with a FS/FD box with a photocontrol. Contact your local sales representative for more information.
② Factory installed. Fusing is mounted in the driver housing. (For retrofit applications that require fusing, fusing must be removed from the mounting hood and ordered in the luminaire). Fusing only permitted for cCSAus rating.
③ Luminaires with photocontrol are not rated IP66/67, Marine Outside Type (Salt Water), or Class II and voids the NEMA ratings on the fixture but remains suitable for use in wet locations. Photocontrol available for 120-277 VAC only.
④ Guards for the glass refractors and globes are ordered separately. See the Accessories for more information.
⑤ For specific lumen output information, see Lamp Comparison Chart.
⑥ Certified for cCSAus only.
⑦ 3/4" NPT, 1" NPT and Metric M20 hub entries not offered in this mounting option.
⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.