

# Mercmaster™ LED Series Luminaires

## Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zone 2, AEx nA IIC | Class II, Division 1, Group E, F, G | Class II, Division 2, Group F, G | Class III | Type 3R, 4, 4X | IP66/67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

### Applications

- Enclosed and gasketed fixtures suitable for use in:
  - Marine and wet locations
  - A wide range of industrial, chemical processing and other areas where flammable gases and vapors are present
  - Areas of low clearance or low ceiling heights
  - Non-hazardous locations where severe weather conditions, excessive moisture, dirt, dust, corrosive atmosphere or high ambient temperatures are encountered
- Typical applications include:
  - Pulp and paper mills
  - Processing plants
  - Chemical plants
  - Oil refineries
  - Foundries
  - Manufacturing plants
  - Storage areas
  - Waste and sewage treatment
  - Parking garages
  - Other areas where dust, water, dirt and rough usage are a problem



### Features

- Compact light weight low profile design is suited for low mounting heights.
- Modular design allows scores of fixture component combinations to meet installation needs. Uses same mounting hoods as Mercmaster III.
- Fixture housing and mounting hoods are copperfree cast aluminum with baked epoxy finish. All exposed hardware is stainless steel.
- Accommodates a wide range of voltages.
- Ambient temperatures:
  - 150 W to 175 W equivalent: -40 °C to +55 °C (-40 °F to +131 °F)
  - 250 W equivalent: -40 °C to +50 °C (-40 °F to +122 °F)
  - 350 W equivalent: -40 °C to +50 °C (-40 °F to +122 °F)
  - 400 W equivalent: -40 °C to +55 °C (-40 °F to +131 °F)
- Electrical: 120-277 Vac, 50/60 Hz; 347-480 Vac, 50/60 Hz, Volts +/- 10%.
- Pole terminal block: 1 x 8-24 AWG; 1 x 0.75 to 6 mm<sup>2</sup> (0.0012 to 0.0093 in<sup>2</sup>).
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on driver housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- All Mercmaster mounting hoods have provision for easy field installation of fuses in fixtures (see Fixture Unit — Electrical Specification).
- NPT and metric threads standard.
- NEMA Type V light distribution is standard.
  - Type V distribution is required in areas where sufficient, evenly distributed light is necessary. It produces a circular distribution that has the same intensity at all angles.
- NEMA Type I light distribution is available as an option for select NEC/CEC certified fixtures.
  - Type I distribution is the perfect lighting for walkways, Type I distribution is perfect for lighting walkways, catwalks or anyplace where a narrow beam of light is required.

### Standard Materials

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate

### Standard Finishes

- Mounting hoods, bodies and guards: baked gray epoxy-clad finish, electrostatically applied for complete uniform protection

### NEC/CEC Certifications and Compliances

- UL Standard: UL 50; UL 844; UL 1598; UL 1598A; UL 8750
- CSA Standard: C22.2 No 0; C22.2 No. 0.4; C22.2 No. 0.5; C22.2 No. 94; C22.2 No. 60529; C22.2 No. 137; C22.2 No. 250.0; C22.2 No. 60079; E60079-15
- ANSI/UL Standards: 60079-0; 60079-15
- ANSI/IEC Standards: 60529
- cCSAus Certified: 2531848

### DesignLights™ Consortium (for the following models)

- MLEDN15
- MLEDN17
- MLEDN25
- MLEDN35
- MLEDN40

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### Illustrated Features

LED Luminaires | NEC/CEC Certified | Hazardous Location



#### Heatsink

Reliable heat transfer via the cast, epoxy powder coat aluminum body. Provides maximum heat dissipation from the LED assembly to the outside environment.



#### Driver Assembly

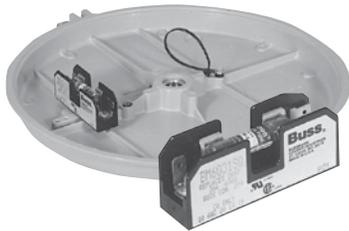
Utilizing non-sparking components avoiding the ignition of gases or vapors that may be present (nA).

Modular Plug between LED and driver.



#### LED Chamber

Protected by polycarbonate lens, allows for easy maintenance access.



#### Terminal Blocks (Zone 2)

A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from #8 to #24AWG, 0.75 to 6 mm<sup>2</sup> (0.0012 to 0.0093 in<sup>2</sup>).

#### Epoxy Finish

Driver housing, hoods and guards are copperfree aluminum with epoxy powder coat finish.

#### Electrical Protection

Ground wire provided to bond mounting hood to driver housing.

#### Safety

Rounded heatsink edges prevent possible injury during installation.



#### Cooler Operating Cone Hood

Larger sloped surface sheds dusts, dirt and combustible fibers providing better heat dissipation.

#### Fuses ①

Two screws secure fuse kit to mounting boss in any Mercmaster mounting hood. Fuse included.

#### Mounting Hood and Globe Gaskets

Silicone rubber gaskets seals out moisture, dirt and dust. Stays flexible, withstands high temperatures. Closure design assures uniform gasket compression.



#### "Safety" High Hinge

Extra-high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.

#### Stainless Steel Latch Assembly

Captive, stainless steel latch assembly bolt and nut closes securely, resists attack of corrosive atmospheres. Swing-away design simplifies servicing.



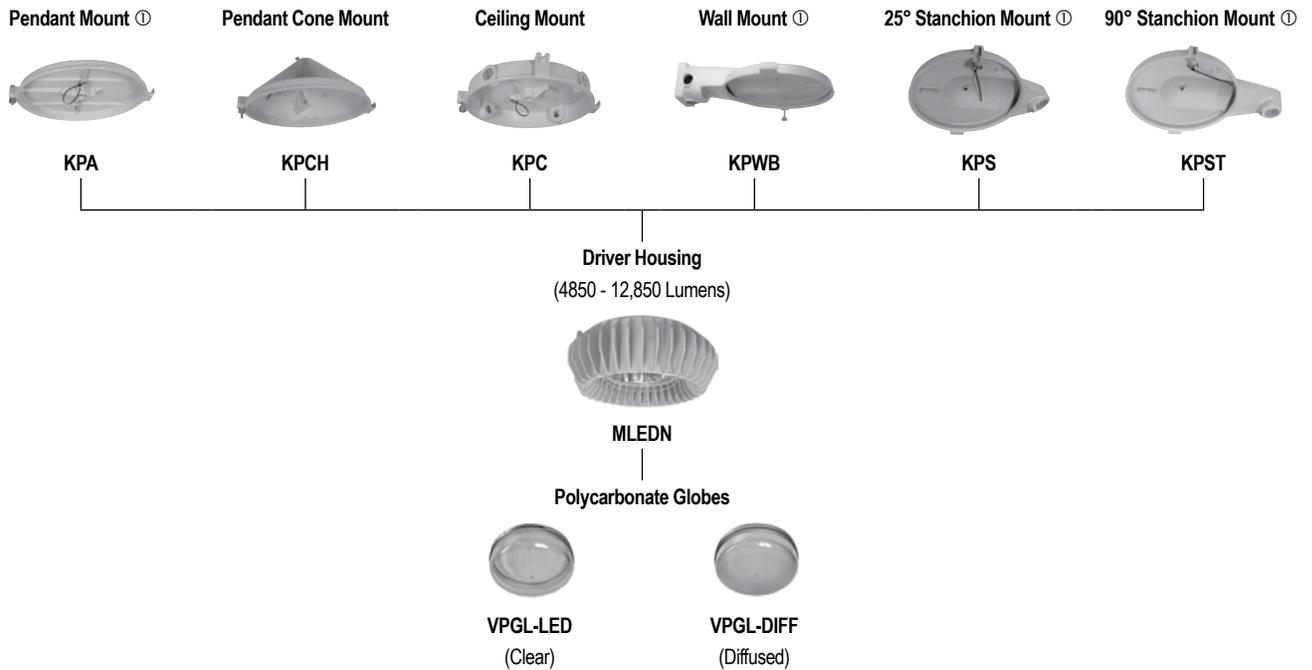
① Fuses are available on the NEC/CEC versions only.

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### Family Tree — Mercmaster™ LED Luminaires



LED Luminaires | NEC/CEC Certified | Hazardous Location

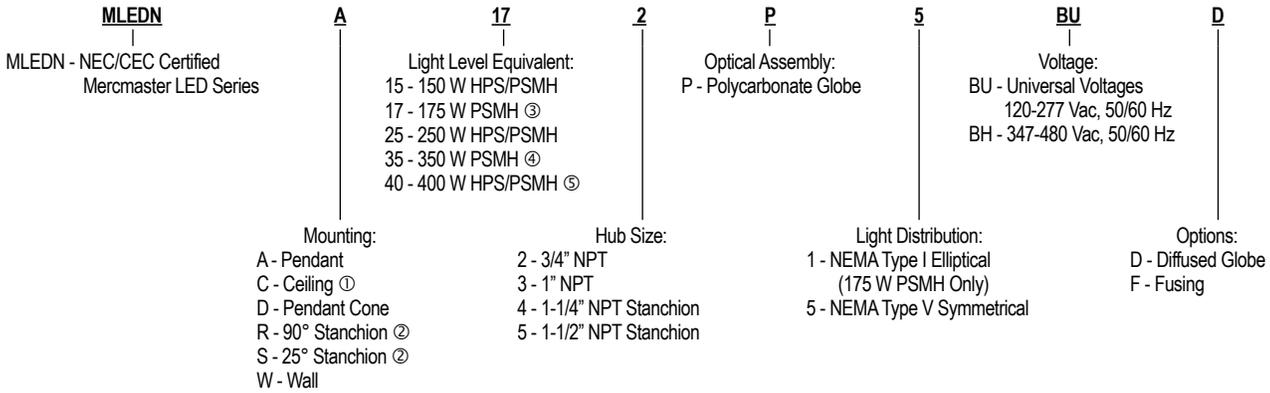
① Mounting hood with a 120 V or 208-277 V factory installed photocell is available.

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### Order Using Catalog Numbering Guide — Mercmaster™ LED Hazardous Location Luminaires



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① Ceiling mount luminaires are not designed to use the PCD2 photocontrol. Ceiling mounts Must use an FS/FD box with a photocontrol. Contact your local sales representative for more information  
 ② 3/4" NPT and 1" NPT hub entries are not offered in this mounting option.  
 ③ 175 W Pulse Start Metal Halide only. Does not have a High Pressure Sodium equivalent.  
 ④ Available for use with the BH voltage only (347-480 Vac, 50/60 Hz).  
 ⑤ Available for use with the BU voltage only (120-277 Vac, 50/60 Hz).

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### Fixture Unit — Driver Housing

	Lumen Level	LED Wattage	Light Level Equivalent	NEMA Type	Voltage	Catalog Number	Fuse Kit Suffix
	5650	61/64 W	150 W HPS	Type V	120-277 Vac, 50/60 Hz	MLEDN15P5BU	F3
	5650	74/88 W	175 W PSMH	Type V	120-277 Vac, 50/60 Hz	MLEDN17P5BU	F3
	5650	70/69 W	175 W PSMH	Type I	120-277 Vac, 50/60 Hz	MLEDN17P1BU	F3
	5650	92/96 W	250 W HPS/PSMH	Type V	120-277 Vac, 50/60 Hz	MLEDN25P5BU	F3
	5650	102/103 W	350 W PSMH	Type V	347-480 Vac, 50/60 Hz	MLEDN35P5BH	F3
	5650	127/128 W	400 W HPS/PSMH	Type V	120-277 Vac, 50/60 Hz	MLEDN40P5BU	F3

### Mounting Hoods

	Description	Hub Size	Catalog Number
<b>Pendant</b>		3/4	KPA-75
		1	KPA-100
<b>Pendant Cone</b>		3/4	KPCH-75
		1	KPCH-100
<b>Ceiling</b>		3/4	KPC-75
		1	KPC-100
<b>Wall</b>		3/4	KPWB-75
		1	KPWB-100
<b>25° Stanchion</b>		1-1/4	KPS-125
		1-1/2	KPS-150
<b>90° Stanchion</b>		1-1/4	KPST-125
		1-1/2	KPST-150

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