

# Industrial Mercmaster™ LED Low Profile Luminaires For Ordinary Locations

**NEC/CEC:**  
cULus Listed  
Type 3R, 4, 4X  
IP66  
Suitable for Use in Wet Locations  
Marine Outside Type (Salt Water) For USA ONLY

## Applications

- Ordinary location fixtures suitable for use in:
  - Heavy industrial locations where severe weather conditions, excessive moisture, dirt, dust, corrosive atmospheres, or high ambient temperatures are encountered.
  - Marine and wet locations
  - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
- Typical applications include:
  - Manufacturing plants
  - Storage area/warehouse
  - Platforms
  - Loading docks
  - Food processing
  - Parking garages

## Features

- Compact light weight low profile design is suited for low mounting heights.
- Six standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster III.
- Customize to the application requirements with four different globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
- Three light output levels for retrofit of HID fixtures up to 150 W.
- 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.
- Ambient Temperature: BU: -40 °C to +55 °C (-40 °F to +131 °F)  
BH: -30 °C up to +55 °C (-22 °F up to +131 °F)
- Standard NPT threads.
- Lamp life rated at 60,000 Hours.

## Options

- Glass globe guard is stainless steel wire. Glass refractor guard is die cast aluminum with gray epoxy powder coating.
- All Mercmaster mounting hoods 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, and are configured to your operating voltage. ①

## 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
- Refractor guard: die cast aluminum
- Reflectors: fiberglass reinforced white polyester



## Standard Finishes

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

## NEC/CEC Certifications and Compliances

- UL Standard: UL 50/50E, 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. 94.1/94.2; C22.2 No. 60529; C22.2 No. 250.0
- ANSI/IEC Standard: 60529
- cULus Listed: E279986
- DLC Qualified Products Listed

## Related Products

- Photocells are available, see *PC Series*.
  - Mounting hoods with photocontrols are not rated IP66, Type 4X or Marine Outside Type (Salt Water)

① Available for 120-277 Vac models only.

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### Illustrated Features

#### Heatsink

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



#### Vented Reflectors

Reflectors are thick, tough fiberglass reinforced white polyester. Quickly attach with furnished stainless steel screws.



#### LED Chamber

Protected by polycarbonate or glass globe, allows for easy maintenance access.



#### Fuses (optional)

Two screws secure fuse kit to mounting boss in any Mercmaster mounting hood. Fuse included. ① Use of fuse voids Marine Outside type (salt water) rating.

#### Photocell (optional)

Available for all fixtures ② except cone and ceiling mount. Provides continuous ON-OFF dusk-to-dawn control. *Note: Fixtures with photocontrols are not rated IP66, Type 4X, Marine Outside Type (Salt Water), or Class II.*

#### Prismatic Refractors

Heat-resistant refractor threads directly into fixture housing and seal against a high-temperature silicone rubber gasket.



#### Epoxy Finish

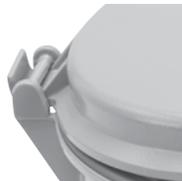
Fixture housing, hoods and guards are copperfree aluminum with epoxy powder coat finish.

#### Electrical Protection

Ground wire provided to bond mounting hood to fixture housing.

#### "Safety" High Hinge

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



#### Cooler Operating Cone Hood

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

#### Mounting Hood and Globe Gaskets

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

#### 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 Factory installed.

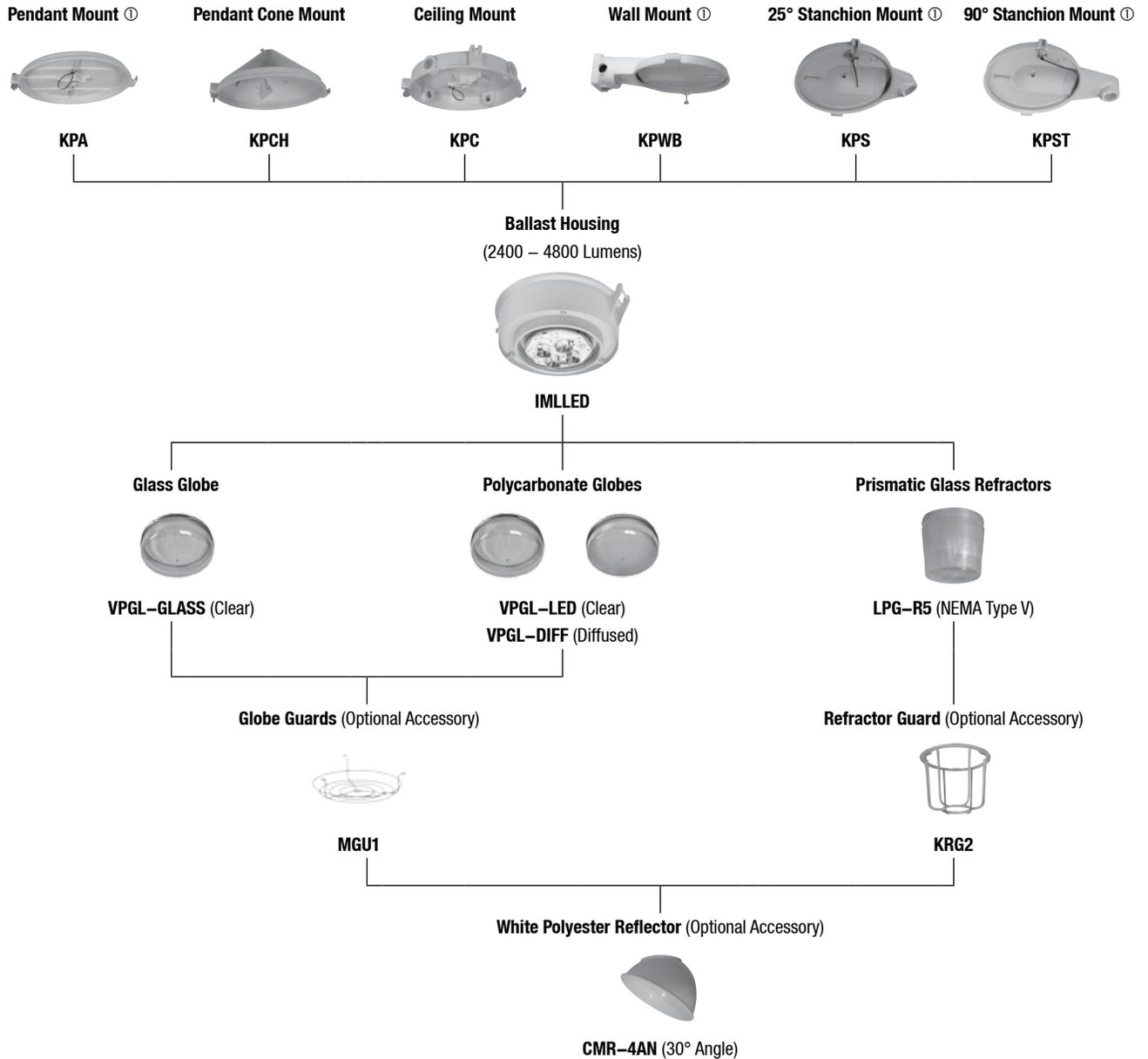
② For 120-277 Vac models.

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### Industrial Mercmaster LED Low Profile Family Tree



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

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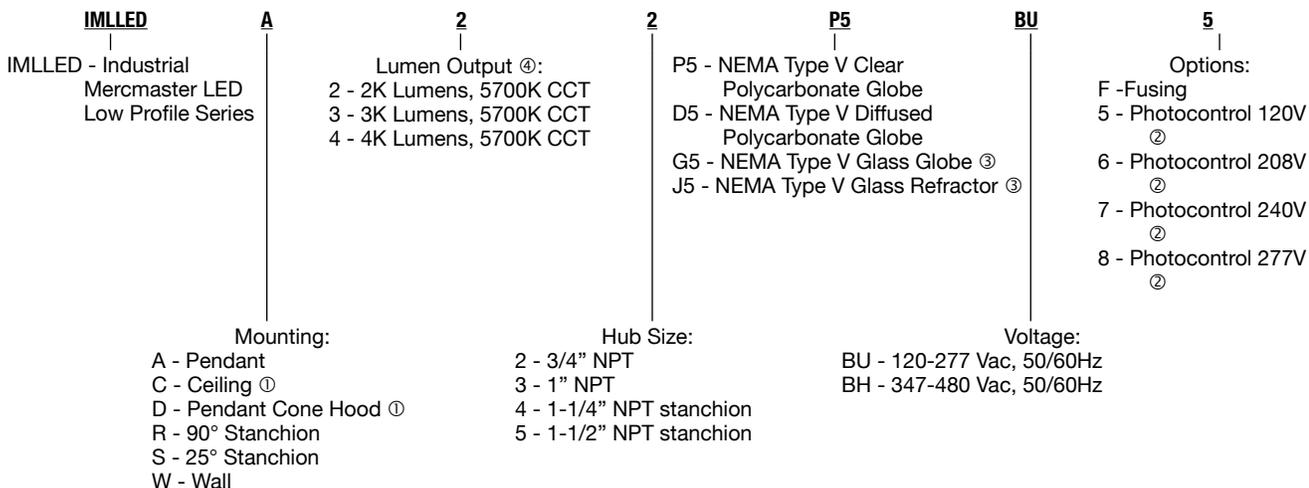
Suitable for Use in Wet Locations

Marine Outside Type (Salt Water) for USA ONLY

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

## Catalog Numbering Guide

For Ordinary Locations:



## Electrical Specification

Model	Line Current Amps (50/60Hz)	Input Power	Power Factor	THD	Lumens ⑤					Color Temp CCT	Equivalent HID Luminaire
					Polycarbonate Clear Globe	Polycarbonate Diffused Globe	Glass Clear Globe	Type V Prismatic Glass Refractor	CRI		
<b>NEMA Type V</b>											
IMLLED2	.21 @120V	26	> .97	< 20%	2400	2300	2500	2200	>70	5700K	70 W
	.10 @277V	26									
	.69 @347V	26	> .97	< 20%	3400	3300	3600	3100	>70	5700K	100 W
	.53 @480V	26									
IMLLED3	.29 @120V	35	> .88	< 20%	4800	4600	5000	4300	>70	5700K	150 W
	.13 @277V	35									
	.99 @347V	35	> .90	< 20%	2300	2200	2400	2100	>70	5700K	70 W
	.74 @480V	35									
IMLLED4	.41 @120V	48	> .90	< 20%	3500	3300	3600	3100	>70	5700K	x100 W
	.20 @277V	48									
	.15 @347V	48	> .83	< 20%	4800	4600	5000	4500	>70	5700K	150 W
	.12 @480V	48									

Surge protection common/differential mode:

1000kHz Ring Wave (w/t 30ohm)

BU:6kv

BH: 2.5kv

1.2/50 μs combination wave (w/t 2 Ω)

	BU	BH
IMLLED2	4kv	3kv
IMLLED3	4kv	3kv
IMLLED4	3kv	3kv

① Ceiling and pendant cone hood mounted luminaires are not designed to use the PC photocontrol. Ceiling mounts must use an FS/FD box with a photocontrol. Contact your local sales representative for more information.

② Luminaires with photocontrol are not rated IP66 or Marine Outside Type (Salt Water). Photocontrol available for 120-277 Vac only.

③ Guards for the glass refractors and globes are ordered separately. See the list of accessories for more information.

④ For specific lumen output information, see Lamp Comparison Chart.

⑤ All lumen values are typical (+/- 10%)

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Appleton®

LED/AREA: NEC/CEC ORDINARY LOCATION

	Hub Size	Lumen Level	With Type V Polycarbonate Globe ①②	With Type V Polycarbonate Diffused Globe ①②	Glass Globe ①②③	With Type V Glass Refractor ①②③
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### 90° Stanchion — One hub



1 - 1/4	2K	IMLLEDR24P5	IMLLEDR24D5	IMLLEDR24G5	IMLLEDR24J5
1 - 1/4	3K	IMLLEDR34P5	IMLLEDR34D5	IMLLEDR34G5	IMLLEDR34J5
1 - 1/4	4K	IMLLEDR44P5	IMLLEDR44D5	IMLLEDR44G5	IMLLEDR44J5
1 - 1/2	2K	IMLLEDR25P5	IMLLEDR25D5	IMLLEDR25G5	IMLLEDR25J5
1 - 1/2	3K	IMLLEDR35P5	IMLLEDR35D5	IMLLEDR35G5	IMLLEDR35J5
1 - 1/2	4K	IMLLEDR45P5	IMLLEDR45D5	IMLLEDR45G5	IMLLEDR45J5

### 25° Stanchion — One hub



1 - 1/4	2K	IMLLEDS24P5	IMLLEDS24D5	IMLLEDS24G5	IMLLEDS24J5
1 - 1/4	3K	IMLLEDS34P5	IMLLEDS34D5	IMLLEDS34G5	IMLLEDS34J5
1 - 1/4	4K	IMLLEDS44P5	IMLLEDS44D5	IMLLEDS44G5	IMLLEDS44J5
1 - 1/2	2K	IMLLEDS25P5	IMLLEDS25D5	IMLLEDS25G5	IMLLEDS25J5
1 - 1/2	3K	IMLLEDS35P5	IMLLEDS35D5	IMLLEDS35G5	IMLLEDS35J5
1 - 1/2	4K	IMLLEDS45P5	IMLLEDS45D5	IMLLEDS45G5	IMLLEDS45J5

### Wall — Five hubs, Four Close-Up Plugs



3/4	2K	IMLLEDW22P5	IMLLEDW22D5	IMLLEDW22G5	IMLLEDW22J5
3/4	3K	IMLLEDW32P5	IMLLEDW32D5	IMLLEDW32G5	IMLLEDW32J5
3/4	4K	IMLLEDW42P5	IMLLEDW42D5	IMLLEDW42G5	IMLLEDW42J5
1	2K	IMLLEDW23P5	IMLLEDW23D5	IMLLEDW23G5	IMLLEDW23J5
1	3K	IMLLEDW33P5	IMLLEDW33D5	IMLLEDW33G5	IMLLEDW33J5
1	4K	IMLLEDW43P5	IMLLEDW43D5	IMLLEDW43G5	IMLLEDW43J5

① For optional fusing, add suffix **-F** to the end of the catalog number.

② For 120-277 Vac, use suffix **-BU**. For 347-480 Vac, use suffix **-BH**.

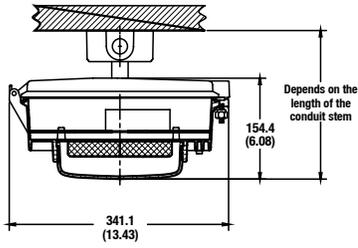
③ Guards for the glass refractors and globes are ordered separately. See following pages for accessory ordering information.

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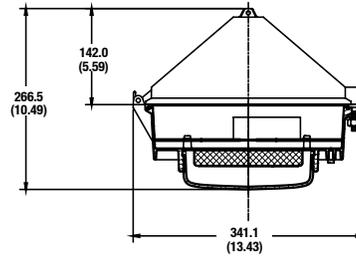
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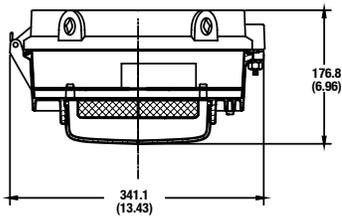
### Dimensions With Polycarbonate Globe in Millimeters (Inches)



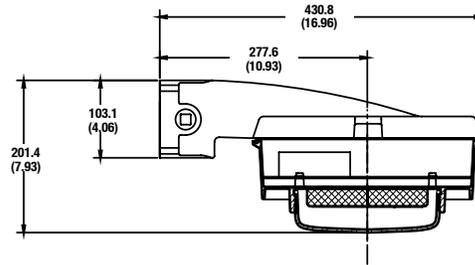
Pendant Mount



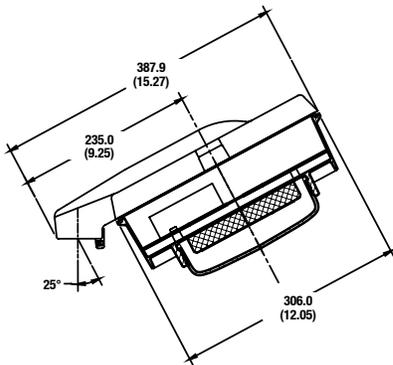
Pendant Cone Mount



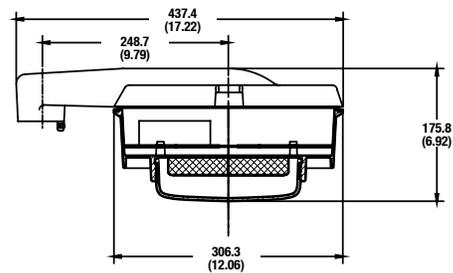
Ceiling Mount



Wall Mount



Angle Stanchion Mount

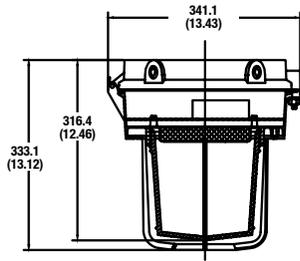


Stanchion Mount

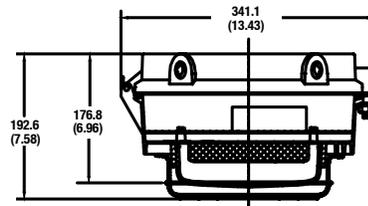
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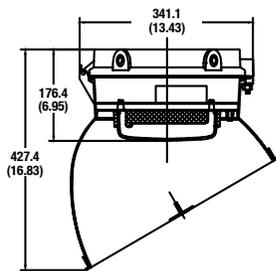
## Dimensions With Polycarbonate Globe in Millimeters (Inches)



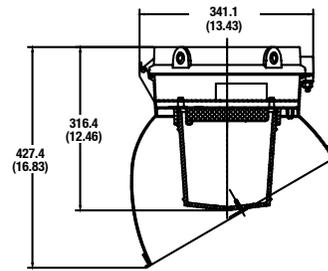
Ceiling Mount w/ Refractor and Guard



Ceiling Mount w/ Glass Globe and Guard



Ceiling Mount with Globe and 30° Reflector



Ceiling Mount with Refractor and 30° Reflector

## Mercmaster LED Low Profile Fixture and Mounting Hood Weights

Description	Weight kg (lb)
Fixture Unit (IMLLED2/IMLLED3)	4.1 (9.00)
Fixture Unit (IMLLED4)	4.6 (10.1)
Pendant Mounting Hood	1.0 (2.25)
Pendant Cone Mounting Hood	1.1 (2.50)
Ceiling Mounting Hood	1.4 (3.00)
Wall Mounting Hood	1.8 (4.00)
25° Stanchion Mounting Hood	1.5 (3.25)
90° Stanchion Mounting Hood	1.7 (3.75)