

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.

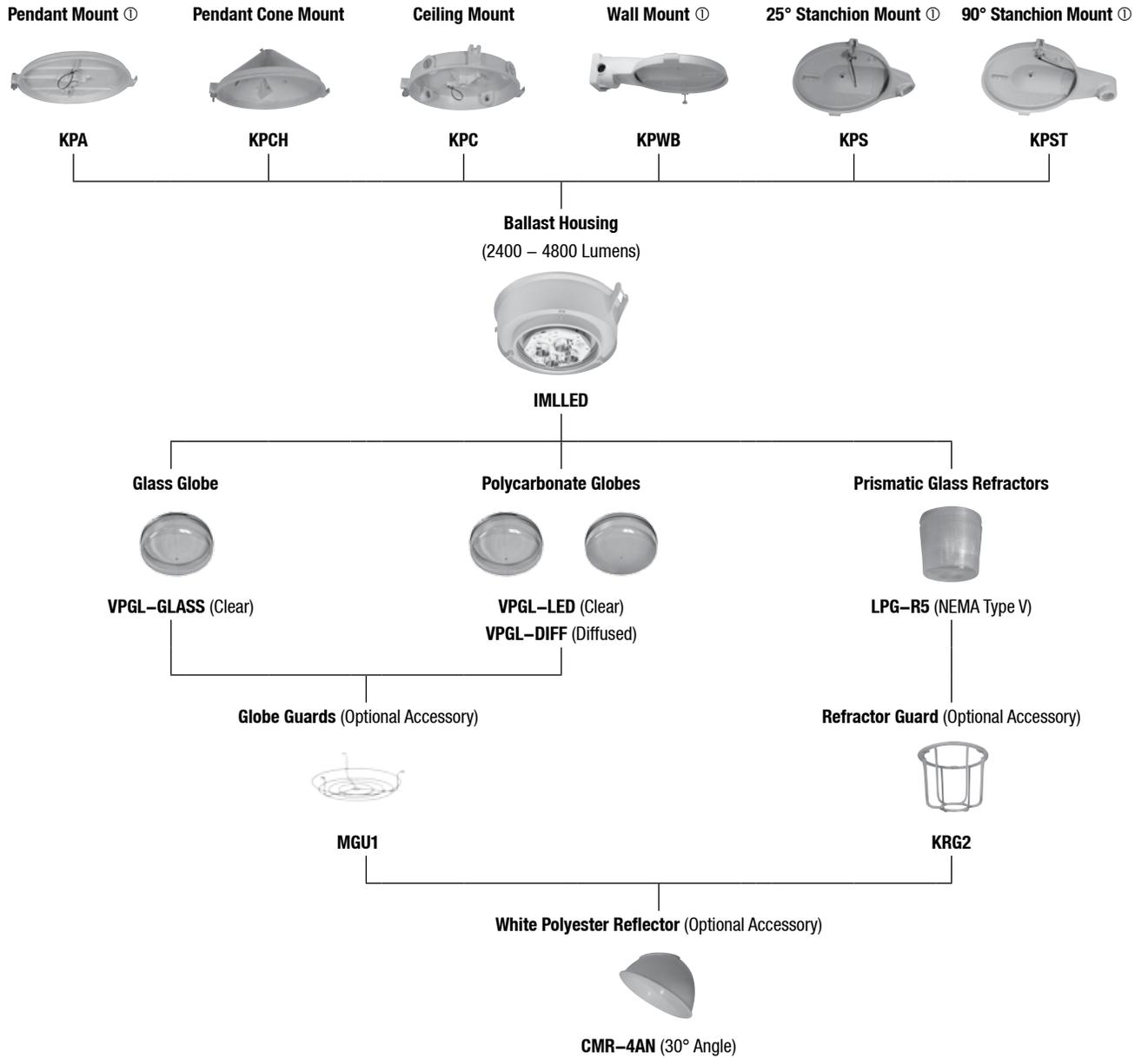
② For 120-277 Vac models.

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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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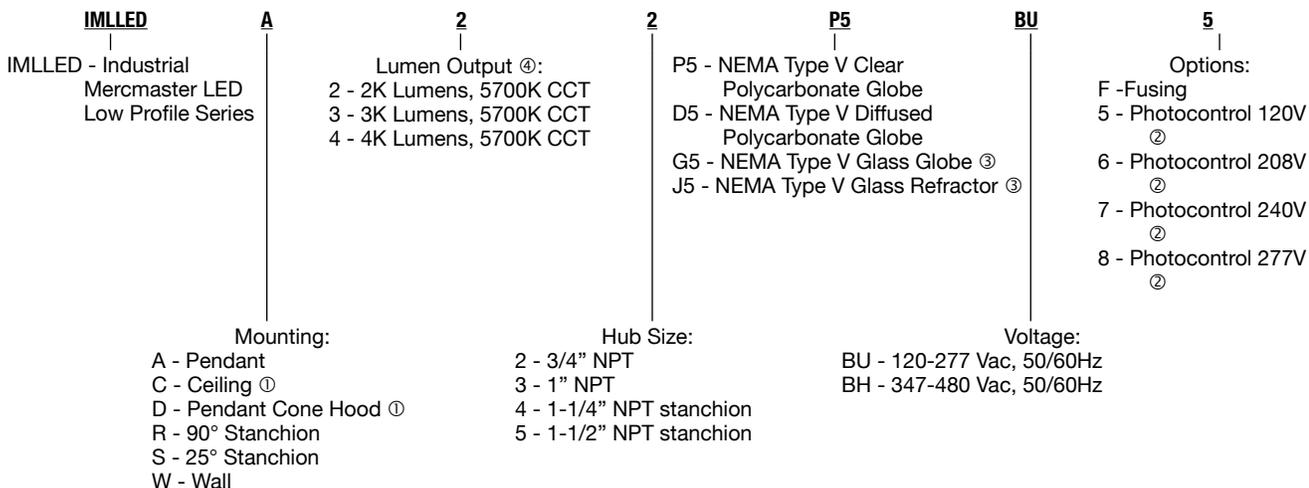
Suitable for Use in Wet Locations

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		
NEMA Type V											
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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	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
Pendant — One Hub						
	3/4	2K	IMLLEDA22P5	IMLLEDA22D5	IMLLEDA22G5	IMLLEDA22J5
	3/4	3K	IMLLEDA32P5	IMLLEDA32D5	IMLLEDA32G5	IMLLEDA32J5
	3/4	4K	IMLLEDA42P5	IMLLEDA42D5	IMLLEDA42G5	IMLLEDA42J5
	1	2K	IMLLEDA23P5	IMLLEDA23D5	IMLLEDA23G5	IMLLEDA23J5
	1	3K	IMLLEDA33P5	IMLLEDA33D5	IMLLEDA33G5	IMLLEDA33J5
	1	4K	IMLLEDA43P5	IMLLEDA43D5	IMLLEDA43G5	IMLLEDA43J5
Ceiling — Five Hubs, Four Close-up Plugs						
	3/4	2K	IMLLEDC22P5	IMLLEDC22D5	IMLLEDC22G5	IMLLEDC22J5
	3/4	3K	IMLLEDC32P5	IMLLEDC32D5	IMLLEDC32G5	IMLLEDC32J5
	3/4	4K	IMLLEDC42P5	IMLLEDC42D5	IMLLEDC42G5	IMLLEDC42J5
	1	2K	IMLLEDC23P5	IMLLEDC23D5	IMLLEDC23G5	IMLLEDC23J5
	1	3K	IMLLEDC33P5	IMLLEDC33D5	IMLLEDC33G5	IMLLEDC33J5
	1	4K	IMLLEDC43P5	IMLLEDC43D5	IMLLEDC43G5	IMLLEDC43J5
Pendant Cone — One Hub, Rigid Mounting						
	3/4	2K	IMLLEDD22P5	IMLLEDD22D5	IMLLEDD22G5	IMLLEDD22J5
	3/4	3K	IMLLEDD32P5	IMLLEDD32D5	IMLLEDD32G5	IMLLEDD32J5
	3/4	4K	IMLLEDD42P5	IMLLEDD42D5	IMLLEDD42G5	IMLLEDD42J5
	1	2K	IMLLEDD23P5	IMLLEDD23D5	IMLLEDD23G5	IMLLEDD23J5
	1	3K	IMLLEDD33P5	IMLLEDD33D5	IMLLEDD33G5	IMLLEDD33J5
	1	4K	IMLLEDD43P5	IMLLEDD43D5	IMLLEDD43G5	IMLLEDD43J5

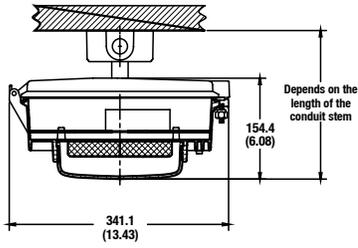
① For optional fusing, add suffix **-F** to the end of the catalog number.
 ② For 120-277 Vac, use suffix **-BU**. For 347-480 Vac, use suffix **-BH**.
 ③ Guards for the glass refractors and globes are ordered separately. See following pages for accessory ordering information.

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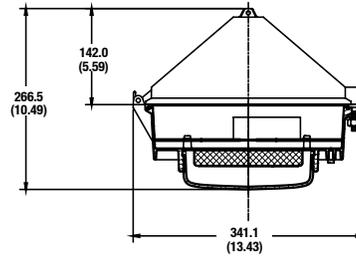
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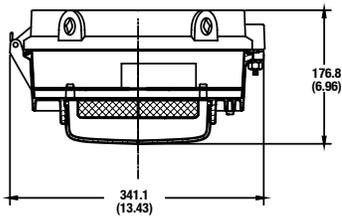
Dimensions With Polycarbonate Globe in Millimeters (Inches)



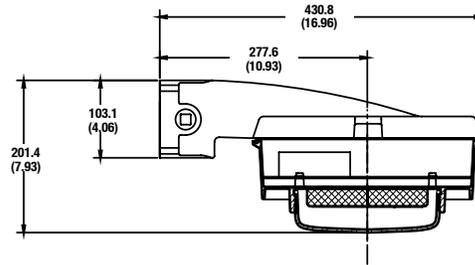
Pendant Mount



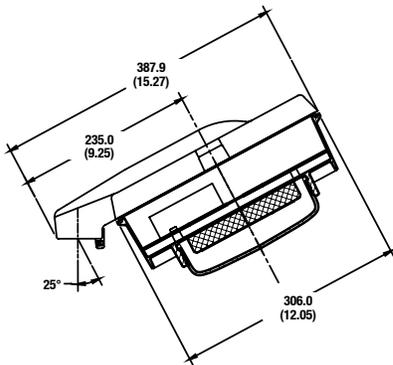
Pendant Cone Mount



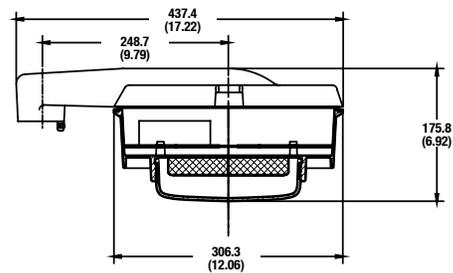
Ceiling Mount



Wall Mount



Angle Stanchion Mount



Stanchion Mount

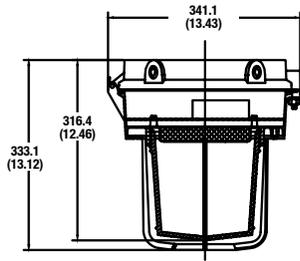
LED / AREA: NEC / CEC ORDINARY LOCATION

Appleton

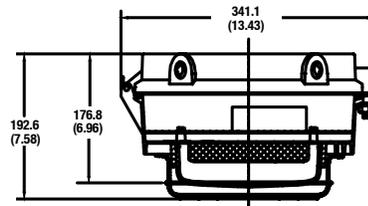
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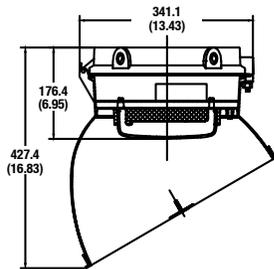
Dimensions With Polycarbonate Globe in Millimeters (Inches)



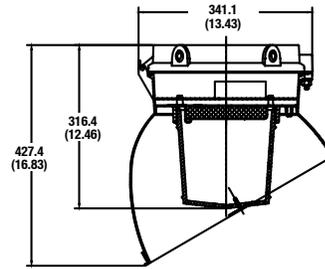
Ceiling Mount w/ Refractor and Guard



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)