

INDUSTRIAL MERCMASTER™ LED LOW PROFILE LUMINAIRES

STANDARD — ORDINARY LOCATION

FEATURES

- Compact light weight low profile design is suited for low mounting heights
- Customize to the application requirements with four different globe options: clear polycarbonate, diffused polycarbonate and clear glass complemented by color globes accessories (Amber, Blue, Red and Green)
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III HID, Mercmaster™ Premium LED and Mercmaster™ Generation 3
- Retrofit adapters for Crouse-Hinds™ ±, Mercmaster II, and Killark™ ✦ hoods available.
- Watertight Pendant Hood available to address the water ingress into the 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.
- Hinged wire compartment cover is secured with captive screws for safety and convenience

WARRANTY ✧

- 10 year standard warranty

TYPICAL APPLICATIONS

- Walkways/catwalks
- Stairwells
- Tunnels
- Pipe racks
- Offshore rigs
- Vessel lighting
- Cooling towers
- Processing areas
- Hydrogen and Biofuels plants
- LNG (Liquid Natural Gas) plants
- Areas of low clearance, low ceiling heights or where fixture weights must be minimized

LUMINAIRE 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
- Globe guard and safety cable: stainless steel

ACCESSORIES (PURCHASE SEPARATELY)

- Globe guard: MGU1
- Visor: MMVISOR
- Colored Glass globes: Amber (VPGLGLASSAM), Blue (VPGLGLASSBL), Red (VPGLGLASSRE), Green (VPGLGLASSGR)

NEC/CEC/NOM LISTINGS ①

- Type 3R, 4, 4X
- IP66/IP67
- IK08
- Suitable for Use in Wet Locations
- Marine Outside Type (Salt Water)

IECEE CB LISTINGS ①

- IP66
- IK08

NOTABLE LISTINGS ①

- ABS Certified
- Dark Sky (IDA) Approved
- DLC listed

RELATED PRODUCTS

- Industrial Mercmaster LED Low Profile with Emergency Battery Backup Luminaires
- Industrial Mercmaster Connect LED Luminaires
- Industrial Mercmaster LED Generation 3 Luminaires with Emergency Battery Backup

① Refer to catalog pages for detailed certification information.

✦ Killark is a registered trademark of Hubbell Incorporated.

± Crouse-Hinds is a registered trademarks of Cooper Crouse-Hinds

✧ For warranty details go to www.appleton.emerson.com.



IMLLED + Clear Globe + Ceiling Mount



IMLLED + Short Refractor + Ceiling Mount

PRODUCT SPECIFICATIONS

Series * Lumen Output	IMLLED*2	IMLLED*3	IMLLED*4	IMLLED*7
Nominal Wattage (W, @120 V)	28	38	48	51
Equivalencies (W, HID)	70 -100	100 -150	150 -175	175-250
Nominal Lumens ①	3500	4750	6000	7460
Efficacy (up to, lm/W) ①	125	125	125	146
Color Temperature (CCT) (K)	5000/4000/3000/1800/Amber			
Color Rendering index (CRI)	≥ 70 CRI (5000K, 1800K) ≥ 80 CRI (4000K/3000K)			
Voltage ②	BU: 100-277 Vac, 50/60 Hz; 125-300 Vdc BH: 347-480 Vac, 50/60 Hz B2: 24-48 Vdc			
Surge Protection	6 kV, 3 kA			
L70 Lifetime (hrs)	Reported: > 60000 hours @ 25 °C > 60000 hours @ 65 °C Calculated: > 200000 hours @ 25 °C > 200000 hours @ 65 °C			
Ambient Temperature ②④	Standard: -40 °C to +65 °C (-40 °F to +149 °F) Cold Temperature Option: -50 °C to +65 °C (-58 °F to +149 °F)			
Fixture Weight - kg (lbs) ③	4.6 (10.1)			
Replaceable Parts	Drivers, Globes			

① Nominal lumens based on Type V optics, 5000K CCT with clear glass lens. Refer to catalog pages for detailed performance.

② Refer to catalog pages for detailed temperature tables/operating temperature based on lumen output/voltage/certification.

③ Driver housing weight shown. See catalog pages for more details.

④ Cold temperature option is available for use with BU (100-277 Vac), or B2 (24-48 Vdc) voltages only. Not available with Photocontrol.

APPLETON™

For product information:
www.masteringled.com
1.800.621.1506


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INDUSTRIAL MERCMASTER™ LED LOW PROFILE LUMINAIRES

STANDARD — ORDINARY LOCATION

Project Information		Specifications
Part Number: _____	Date: _____	_____
Project: _____	_____	_____
Fixture Type: _____	_____	_____

CATALOG NUMBERING GUIDE

Series Prefix	Mounting	Lumen (nominal)	Hub Size	Color Temperature	Globe Material	Light Distribution Pattern	Voltage	Fusing	Operating Temperature	Options
IMLLED						5				

SERIES PREFIX:		LUMEN (NOMINAL): ②		GLOBE MATERIAL: ③		OPERATING TEMPERATURE:	
IMLLED	Industrial Mercmaster LED Low Profile Series	2	3,300	P	Clear Polycarbonate Globe	C	Cold Temperature -50 °C (-58 °F) Minimum Ambient ⑥
MOUNTING:		3	4,400	D	Diffused Polycarbonate Globe	Blank	Standard -40 °C (-40 °F) Minimum Ambient
A	Pendant	4	5,500	G	Clear Glass Globe	OPTIONS:	
B	Watertight Pendant ▲	7	7,500 ⑦	J	Short Glass Prismatic Refractor	1	Photocontrol 120V ⑤
C	Ceiling + ⑥	HUB SIZE: ① ⑦		LIGHT DISTRIBUTION PATTERN:		2	Photocontrol 208-277V ⑤
D	Pendant Cone ▲ ⑥	2	3/4" NPT	VOLTAGE: ⑧ ⑨		Blank	No Options Chosen
R	90° Stanchion ①	3	1" NPT	5	Type V		
S	25° Stanchion ①	4	1-1/4" NPT stanchion	BU			
T	Trunnion +	5	1-1/2" NPT stanchion				
K	Killark™ ✦ Adapter Universal ▲	6	Metric M20 +	BH			
U	Mercmaster II Adapter, Ceiling or Pendant ▲ ⑦	Blank					
V	Mercmaster II Adapter, Stanchion or Wall ▲ ⑦	COLOR TEMPERATURE (CCT): ‡		B2			
W	Wall	C	Cool, 5000K	FUSING: ④			
X	Crouse Hinds™ + Adapter, Ceiling or Pendant ▲	N	Neutral, 4000K				
Y	Crouse Hinds™ + Adapter, Stanchion or Wall ▲	W	Warm, 3000K				
Blank	No mounting hood	S	HPS, 1800K CCT				
		A	Yellow Amber				

- ① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in 90° and 25° Stanchion mounting options.
 ② For lumen output information, see Lumen Output (Efficacy) Table.
 ③ Guards for the refractor and globes are ordered separately. See the Accessories for more information.
 ④ Fusing only permitted for cCSAus rating. Factory installed. Use of fuse voids Marine Outside Type (Salt Water) rating. Fusing is mounted in the driver housing. For retrofit applications, fusing must be removed from the mounting hood and ordered in the luminaire.
 ⑤ 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.
 ⑥ 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.
 ⑦ Hub size does not apply to luminaires ordered with adapters.

- ⑧ Luminaires have 0-10V variable dimming input providing 10% to 100% dimming curve for BU/BH voltage options at standard temperature and 0% to 100% dimming curve for B2 voltage or cold temperature models.
 ⑨ Cold temperature option is available for use with BU (100-277 Vac), or B2 (24-48 Vdc) voltages only. Not available with Photocontrol.
 ⑩ Operating temperature range is -40 °C to +60 °C (-40 °F to +140 °F) for BU/BH standard; -50 °C to +60 °C (-58 °F to +140 °F) for BU/BH cold temperature; -40 °C to +65 °C (-40 °F to +149 °F) for B2 standard; -40 °C to +65 °C (-58 °F to +149 °F) for B2 cold temperature.
 + Metric M20 hub size is only available with Ceiling, Trunnion and Wall mount options.
 ‡ Other CCT options available upon request. Contact your local sales representative for more information.
 ▲ Adapters, watertight pendant hood and BH Voltage only certified for cCSAus. Adapters and BH Voltage are not available for use with photocontrol.
 ✦ Killark is a registered trademark of Hubbell incorporated.
 + Crouse-Hinds is a registered trademark of Cooper industries, inc. a wholly owned subsidiary of the Eaton Corporation plc.
 ⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

DIMENSIONAL DRAWINGS ① | MILLIMETERS (INCHES)

IMLLED*2 to IMLLED*7	
With Globe	With Short Prismatic Glass Refractor

① Driver housing models shown. Refer to catalog pages or the Product Drawing configurator page for additional dimensional information; available on www.masteringled.com.

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INDUSTRIAL MERCMASTER™ LED LOW PROFILE LUMINAIRES WITH EMERGENCY BATTERY BACKUP — ORDINARY LOCATION

FEATURES

- Compact light weight low profile design is suited for low mounting heights
- 90 or 180 minutes of emergency battery backup available
- Customize to the application requirements with three different globe options: clear polycarbonate, diffused polycarbonate and clear glass
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III HID, Mercmaster™ Premium LED and Mercmaster™ Generation 3
- Retrofit adapters for Crouse-Hinds™ ±, Mercmaster II, and Killark™ ✦ hoods available.
- Watertight Pendant Hood available to address the water ingress into the 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.
- Hinged wire compartment cover is secured with captive screws for safety and convenience

WARRANTY ②

- 10 year standard warranty

TYPICAL APPLICATIONS

- Walkways/catwalks
- Stairwells
- Tunnels
- Pipe racks
- Offshore rigs
- Vessel lighting

- Cooling towers
- Processing areas
- Hydrogen and Biofuels plants
- LNG (Liquid Natural Gas) plants
- Areas of low clearance, low ceiling heights or where fixture weights must be minimized

LUMINAIRE 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
- Globe guard and safety cable: stainless steel

ACCESSORIES (PURCHASE SEPARATELY)

- Globe guard: MGU1
- Visor: mmVISOR

NEC/CEC/NOM LISTINGS ①

- Type 3R, 4, 4X
- IP66/IP67
- IK08
- Suitable for Use in Wet Locations
- Marine Outside Type (Salt Water)

NOTABLE LISTINGS ①

- ABS Certified

RELATED PRODUCTS

- Industrial Mercmaster LED Low Profile Standard Luminaires
- Industrial Mercmaster Connect LED Luminaires
- Industrial Mercmaster LED Generation 3 Luminaires with Emergency Battery Backup



IMLED + Clear Globe + Ceiling Mount

① Refer to catalog pages for detailed certification information.

✦ Killark is a registered trademark of Hubbell Incorporated.

± Crouse-Hinds is a registered trademarks of Cooper Crouse-Hinds

✦ For warranty details go to www.appleton.emerson.com.

PRODUCT SPECIFICATIONS

Series * Lumen Output	IMLED*2	IMLED*3	IMLED*4	IMLED*7
Nominal Wattage (W, @120 V)	28	38	48	56
Equivalencies (W, HID)	70 -100	100 -150	150 -175	175 -250
Nominal Lumens Standard Mode ①	3300	4400	5500	7460
Nominal Lumens Emergency Mode ①	1700 (90 min) 850 (180 min)			
Efficacy (up to, lm/W) ①	100	110	112	133
Color Temperature (CCT) (K)	5000/4000/3000/1800/Amber			
Color Rendering index (CRI)	≥ 70 CRI (5000K, 1800K) ≥ 80 CRI (4000K/3000K)			
Voltage	120–277 Vac, 50/60 Hz			
Surge Protection	6 kV, 3 kA			
L70 Lifetime (hrs)	Reported: > 60000 hours @ 25 °C > 60000 hours @ 65 °C Calculated: > 200000 hours @ 25 °C > 200000 hours @ 65 °C			
Ambient Temperature ②	-20 °C to +55 °C (-4 °F to +131 °F)			
Fixture Weight - kg (lbs) ③	5.8 (13.8)			
Replaceable Parts	Drivers, Globes, Battery Management Module, Battery Pack			

① Nominal lumens based on Type V optics, 5000K CCT with clear glass lens. Refer to catalog pages for detailed performance.

② Refer to catalog pages for detailed temperature tables/operating temperature based on lumen output/certification.

③ Driver housing weight shown. See catalog pages for more details.

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INDUSTRIAL MERCMASTER™ LED LOW PROFILE LUMINAIRES WITH EMERGENCY BATTERY BACKUP — ORDINARY LOCATION

Project Information		Specifications	
Part Number:	_____	Date:	_____
Project:	_____		
Fixture Type:	_____		

CATALOG NUMBERING GUIDE

Series Prefix	Mounting	Lumen (nominal)	Hub Size	Color Temperature	Globe Material	Light Distribution Pattern	Voltage	Emergency
IMLED						5	BU	

SERIES PREFIX:		MOUNTING:		LUMEN (NOMINAL): ②		GLOBE MATERIAL: ③	
IMLED	Industrial Mercmaster LED Low Profile Series with Emergency Battery Backup	A	Pendant	2	3,300	P	Clear Polycarbonate Globe
		B	Watertight Pendant ▲	3	4,400	D	Diffused Polycarbonate Globe
		C	Ceiling +	4	5,500	G	Clear Glass Globe
		D	Pendant Cone ▲	7	7,500	LIGHT DISTRIBUTION PATTERN:	
		R	90° Stanchion ①	HUB SIZE: ① ④		5	Type V
		S	25° Stanchion ①	2	3/4" NPT	VOLTAGE: ⑤	
		T	Trunnion +	3	1" NPT	BU	120–277 Vac, 50/60 Hz
		K	Killark™ ✦ Adapter Universal ▲	4	1-1/4" NPT stanchion	EMERGENCY: ⑥	
		U	Mercmaster II Adapter, Ceiling or Pendant ▲ ④	5	1-1/2" NPT stanchion	H	90 Minutes
		V	Mercmaster II Adapter, Stanchion or Wall ▲ ④	6	Metric M20 +	E	180 Minutes
		W	Wall +	Blank If using adapter or no hood			
		X	Crouse Hinds™ ✦ Adapter, Ceiling or Pendant ▲	COLOR TEMPERATURE (CCT): ±			
		Y	Crouse Hinds™ ✦ Adapter, Stanchion or Wall ▲	C	Cool, 5000K		
		Blank	No mounting hood	N	Neutral, 4000K		
				W	Warm, 3000K		
				S	HPS, 1800K CCT		
				A	Yellow Amber		

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in 90° and 25° Stanchion mounting options.

② For lumen output information, see Lumen Output (Efficacy) Table.

③ Guard for the globe must be ordered separately. See the Accessories for more information.

④ Hub size does not apply to luminaires ordered with adapters.

⑤ All luminaires ship standard with a two-wire, 0-10V variable dimming input port for controlling the light output from 10% to 100% of the rated lumen output. Luminaire cannot be dimmed in emergency mode.

+ Metric M20 hub size is only available with Ceiling, Trunnion and Wall mount options.

± Other CCT options available upon request. Contact your local sales representative for more information.

▲ Adapters and watertight pendant hood only certified for cCSAus.

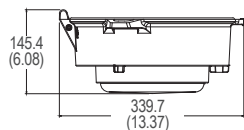
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DIMENSIONAL DRAWINGS ① | MILLIMETERS (INCHES)

IMLED*2 to IMLED*7

With Globe



① Driver housing model shown. Refer to catalog pages or the Product Drawing configurator page for additional dimensional information; available on www.masteringled.com.

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