MERCMASTER™ LED GENERATION 3 SERIES LUMINAIRES STANDARD — HAZARDOUS LOCATION

FEATURES

- Modular design provides thousands of combinations for maximum versatility
- Choice of optics for optimal light distribution in a variety of applications: Type I, Type III, Type V or Type V Wide
- Customize to the application requirements with four different globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster III, Mercmaster LED and Mercmaster LED Low Profile
- Retrofit adapters for Crouse-Hinds™ +, Mercmaster II, and Killark™ [♦] hoods available.
- Watertight Pendant Hood with IP68 cord grip available to address water ingress into luminaire via conduit
- Higher ambient options available (up to 75 °C [167 °F]) on select configurations
- 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 installation

WARRANTY [⊙]

5 year standard warranty

TYPICAL APPLICATIONS

- Power plants
- Processing plants
- Chemical plants
- Oil refineries
- Waste and sewage treatment
- Hydrogen and Biofuels plants
- LNG (Liquid Natural Gas) plants
- Other areas where dust, water, dirt and rough usage are a problem

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, short refractor guard and safety cable: stainless steel

ACCESSORIES (PURCHASE SEPARATELY)

- Globe quard: MGU1
- Refractor guard: KRG2S
- Visor: MMVISOR
- Drain plug: LEDDR3

NEC/CEC LISTINGS ①

- NEC: Class I, Division 2, Groups A, B, C, D I Class II, Division 1, Groups E, F, G | Class II Division 2 Groups F, G | Class III
- CEC: Class I, Zone 2 AEx ec IIC | Zone 21 AEx to IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC
- Marine Outside Type (Salt Water)
- Type 3R, 4, 4X
- IP66/IP67
- Simultaneous Exposure
- Suitable for Use in Wet Locations

IEC / ATEX LISTINGS ①

ATEX/IECEx: Zones 2 - 21 and 22

NOTABLE LISTINGS ① ABS Certified

Dark Sky (IDA) Approved

DLC listed

RELATED PRODUCTS

- Mercmaster LED Generation 3 Luminaires with Emergency Battery Backup
- Industrial Mercmaster LED Generation 3 Standard and with **Emergency Battery Backup Luminaires**
- Mercmaster LED Generation 3 Zone 1 Luminaires
- Mercmaster Connect LFD Luminaires



MLG*L + Clear Globe + **Ceiling Mount**



MLG*L + Short Refractor + **Ceiling Mount**



MLG*H/MLG*X + Clear Globe + **Ceiling Mount**



MLG*H/MLG*X + Short Refractor + Ceiling Mount

- -- Crouse-Hinds is a registered trademark of Cooper industries, inc., a wholly owned subsidiary of the Eaton Corporation plc.
- For warranty details go to www.appleton.emerson.com.

PRODUCT SPECIFICATIONS

Series * Lumen Output	MLG*L3	MLG*L5	MLG*L7	MLG*L9	MLG*H9	MLG*H1	MLG*H3	MLG*H6	MLG*X1	MLG*X5			
Nominal Wattage (W, @120 V)	30	46	57	75	75	93	115	145	169	210			
Equivalencies (W, HID) •	70 -100	100 -150	175 -250	250-350	250-350	350-400	400	400-600	600-750	1000			
Nominal Lumens	3700 5400 8300 10400					13600	16400	20100	21937	26070			
Efficacy (up to, lm/W)	123	117	146	139	149	146	143	139	130	124			
Color Temperature (CCT) (K)	5000 / 4000/3000												
Color Rendering index (CRI)	≥ 70 CRI (5000K) ≥ 80 CRI (4000K / 3000K)												
Voltage	120-277 Vac, 50/60 Hz; 125-300 Vdc 347-480 Vac, 50/60 Hz												
Surge Protection	Standard: 6 kV	/, 3 kA Optiona	l: 10 kV, 5 kA										
Lifetime (hrs, reported)	L90 > 60000 h	L90 > 60000 hrs @ 75 °C L70 > 76000 hrs @ 25 °C											
Ambient Temperature 2	Standard: -40	°C to +65 °C (-4	10 °F to +149 °F) High ambier	t: -40 °C to +75	°C (-40 °F to +	167 °F)						
Temperature Code 2	T3 - T6												
Fixture Weight - kg (lbs)	9.20 (20.3)				12.00 (26.4) 13.15 (29.0)								
Replaceable Parts	Drivers, Globe	S											

- Nominal lumens are based on 5000K CCT, clear glass lens and Type III optic (L3 thru L9) or Type V optic (H1 thru X5). Review the catalog pages for detailed performance.
- Refer to catalog pages for detailed temperature tables/operating temperature based on lumen output/certification. High ambient max temperature may vary from +70 °C to +75 °C (+158 °F to +167 °F).
- Driver housing weight shown. See catalog pages for more details.



MERCMASTER™ LED GENERATION 3 SERIES LUMINAIRES STANDARD — HAZARDOUS LOCATION

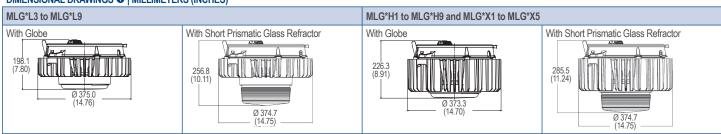
Project Ir	nformatio	n									Specifica	ations							
Part Number: Date:							·												
Project:						-													
Fixture T	ype:																		
CATALO	G NUME	BERING G	UIDE																
Series Prefix Lumen (nominal)					Color Temperature					Light Distribution Pattern			ern		Optional Fusing				
		Mou	nting			<u>Hub</u>	<u>Size</u>			Globe N				Voltag	<u>je</u>			<u>Op</u>	tions
ML	.G																		
SERIES PREFIX: LUMEN (NOMINAL						AL): *+	<u>'</u>		COLO	R TEMPE	RATURE	(CCT): ‡		OPTIO	ONAL FU	SING: #			
MLG Mercmaster LED Generation 3			L3 3.500				С	Cool, 5000K				F	Fusin						
Series				L5	5,500				N	Neutral, 4000K				Blank	0				
MOUNTING:				L7	7,500			W Warm, 3000K					OPTIONS:						
Α	Pendan	it			L9	9,500				GLOBE MATERIAL: ③					1	1 Photocontrol 120V ④			
В	Watertight Pendant ▲				H9	9,500 ®				Р	Clear Polycarbonate Globe				2	Photocontrol 208V @			
С	Ceiling ⑤				H1	11,500				D	Diffused Polycarbonate Globe				3	Photocontrol 240V @			
D		t Cone ®			H3	13,500				G	Clear Glass Globe				4	Photo	Photocontrol 277V @		
R	R 90° Stanchion ①				H6	17,500				J	Short Glass Prismatic				S	Additional surge to 10 kV ②			
S					X1	20,000				Refractor ⑨					Α	High Ambient +®			
T	Trunnio				X5	24,000					DISTRIBUTION PATTERN:				Blank	No O	otions Cho	sen	
K		[∧] ♦ Adapte			HUB S	IZE:				1	Type I								
U	Mercma Pendan	aster II Ada	pter, Ceil	ing or	2	3/4" NP	T ①			3	Type I								
٧	. 0	A110		3 1" NPT ①				5 Type V ②											
V Mercmaster II Adapter, Stanchion or Wall		4	1-1/4" NPT stanchion				W Type V Wide VOLTAGE:												
W	Wall	Vall			5	1-1/2" NPT stanchion				BU									
X Crouse Hinds™ + Adapter, Ceiling or Pendant ▲ ⑥			6	Metric M20 ⊕				BU	120-277 Vac, 50/60 Hz; 125-300 Vdc										
		•			Blank If using adapter or no hood			i	ВН	347-480 Vac, 50/60 Hz ▲									
Υ		Hinds™ + on or Wall									V 10								
Blank	No mou	inting hood	1																

- ① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered on 90° or 25° Stanchion mounting options.
- ② 10 year warranty standard when ordered with light distribution pattern Type I, Ill or V Wide or additional (10 kV) surge protection (not available with high ambient options). 10 kV surge is not rated for ATEX/IECEx.
- Guards for the globes and refractor are ordered separately. Refer to catalog pages for complete accessories information.
- Photocontrol available for 120-277 Vac only. Factory installed in the mounting hood. Photocontrols only certified for cCSAus. Luminaires with photocontrol are not rated IP66/67, Class II, 3R, 4, 4X, or Marine Outside Type (Salt Water).
- (5) Ceiling-mount and pendant cone mounting hoods and adapters are not designed to use the in hood photocontrol. Ceiling and pendant cone mounts must use an FS/FD box with photocontrol (ordered separately).
- Only allowed for Type V and Type V Wide light distribution.

- For 125-TO Vdc, operating temperature range is -40 °C to +55 °C (-40 °F to +131 °F)(for IECEx/ATEX only). NEC/CEC operating temperature remains -40 °C to +65 °C (-40 °F to +149 °F) for full Vdc range.
 H9 only available with High Ambient option (-A). Refer to catalog pages for detailed temperature code tables for specific NEC/CEC or ATEX/IECEx applications.
- Short glass prismatic refractor (J) is only available in light distribution pattern Type V. Refractor is not rated for ATEX/IECEX.
- For NEC/CEC, high ambient is available with lumen packages L3 to H3. For ATEX/IECEX, high ambient is only available with lumen packages L7, H9 and H1. See details in Temperature code tables for specific NEC/CEC or ATEX/ IECEX applications
- Refer to catalog pages for detailed lumen output information, see Lumen Output (Efficacy) Table.
- Fusing only permitted for NEC/CEC rating. Factory installed. Use of fuse voids Marine Outside Type (Salt Water) rating. Fusing is mounted in the driver housing.

 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. 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.

DIMENSIONAL DRAWINGS • | MILLIMETERS (INCHES)



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





MERCMASTER™ LED GENERATION 3 SERIES LUMINAIRES WITH EMERGENCY BATTERY BACKUP — HAZARDOUS LOCATION

FEATURES

- Modular design provides thousands of combinations for maximum versatility
- Choice of optics for optimal light distribution in a variety of applications: Type I, Type III, Type V or Type V Wide Emergency mode is field changeable from 90 min to
- 180 min
- Customize to the application requirements with four different globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster III, Mercmaster LED and Mercmaster LED Low Profile.
- Retrofit adapters for Crouse-Hinds™ +, Mercmaster II, and Killark™ [♦] hoods available.
- Watertight Pendant Hood with IP68 cord grip 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 installation

WARRANTY [©]

5 year standard warranty

TYPICAL APPLICATIONS

- Power plants
- Processing plants
- Chemical plants
- Oil refineries
- Waste and sewage treatment
- Hydrogen and Biofuels plants
- LNG (Liquid Natural Gas) plants
- Other areas where dust, water, dirt and rough usage are a problem

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, short refractor guard and safety cable: stainless steel

ACCESSORIES (PURCHASE SEPARATELY)

- Globe guard: MGU1
- Refractor guard: KRG2S
- Visor: MMVISOR
- Drain plug: LEDDR3

NEC/CEC LISTINGS ①

- NEC: Class I, Division 2, Groups A, B, C, D | Class II Division 1 Groups E,F,G | Class II, Division 2, Groups F, G | Class III
- CEC: Class I, Zone 2 IIC | Zone 20 IIC
- Type 3R, 4, 4X
- IP66/IP67
- Simultaneous Exposure
- Suitable for Use in Wet Locations

NOTABLE LISTINGS ①

- **ABS** Certified
- Dark Sky (IDA) Approved

RELATED PRODUCTS

- Mercmaster LED Generation 3 Standard Luminaires
- Industrial Mercmaster LED Generation 3 Standard and with **Emergency Battery Backup Luminaires**
- Mercmaster LED Generation 3 Zone 1 Luminaires
- Mercmaster Connect LED Luminaires



MLG*L + Clear Globe + Ceiling Mount

- ① Refer to catalog pages for detailed certification information.
- ☆ Killark is a registered trademark of Hubbell incorporated.
- -1- Crouse-Hinds is a registered trademark of Cooper industries, inc., a wholly owned subsidiary of the Eaton Corporation plc.
- For warranty details go to www.appleton.emerson.com.

PRODUCT SPECIFICATIONS

Series * Lumen Output	MLG*L3*H	MLG*L3*E	MLG*L5*H	MLG*L5*E						
Nominal Wattage (W, @120 V)	30		46							
Equivalencies (W, HID)	70 - 100		100 - 150							
Nominal Lumens Standard Mode O	4000		6000							
Nominal Emergency Emergency Mode	1450 (90 min) 800 (180 min)									
Efficacy (up to, lm/W) •	133		130							
Color Temperature (CCT) (K)	5000 / 4000/3000									
Color Rendering index (CRI)	≥ 70 CRI (5000K) ≥ 80 CRI (400	0K / 3000K)								
Voltage	120-277 Vac, 50/60 Hz	120–277 Vac, 50/60 Hz								
Surge Protection	Standard: 6kV, 3kA									
Ambient Temperature 2	-20 °C to +55 °C (-4 °F to +131 °F									
Temperature Code ②	T3 - T4									
Fixture Weight - kg (lbs) €	10.5 (23.2)									
Replaceable Parts	Drivers, Globes, Battery pack, Battery Management Module									

- Nominal lumens based on Type V optics, 5000K CCT with clear glass lens. Refer to catalog pages for detailed performance.
- Refer to catalog pages for detailed temperature tables/operating temperature based on lumen output/certification. High ambient max temperature may vary from +70 °C to +75 °C (+158 °F to +167 °F).
- Driver housing weight shown. See catalog pages for more details



MERCMASTER™ LED GENERATION 3 SERIES LUMINAIRES WITH EMERGENCY BATTERY BACKUP — HAZARDOUS LOCATION

							_											
Project Information								Specif	icatio	ns								
Part Number: Date:																		
Project:	_				_		_											
Fixture T	ype:						_											
							_											
CATALO	OG NUMBEI	RING GUIDE																
Series Prefix Lumen (nominal) Color Ter							mperatur	re		L	ight Distribu	ution Patt	em		Emer	gency		
Mounting				Hub Size			Globe Material						Voltage					
			1												1			
N	1LG													BU				
SERIES PREFIX:				MOUNTING:				LUMEN (NOMINAL): *					GLOBE MATERIAL: ②					
		er LED Generation 3		Α	Pendant				3,500				Р	Clear Polyca	be			
Series with Emergency Battery				B Watertight Pendant			L5 5,500						D Diffused Polycarbonate Globe					
Backup				С	Ceiling Pendant Cone			HUB SIZE: 2 3/4" NPT										
				D									G Clear Glass Globe					
				R	90° Stanchion			1" N	1" NPT				LIGHT DISTRIBUTION PATTERN:					
				S	25° Stanchion		4	1-1/4	4" NP	T stanchi	on		1	Type I				
				Т	Trunnion		5	1-1/2	2" NP	T stanchi	on		3	Type III				
					Killark™ Adapter Universal			Metr	Metric M20 If using adapter or no hood				5 Type V W Type V Wide					
								ık If us										
					Mercmaster II Adap	ter, Ceiling or	COL	OR TEM	OR TEMPERATURE (CCT):			_	VOLTAGE:					
					Pendant			Coo	Cool, 5000K			BU 120-277 Vac,						
					Mercmaster II Adapter, Stanchion or Wall		N	Neu	Neutral, 4000K				EMERGENCY:					
					Wall			War	Warm, 3000K				Н	90 Minutes				
					Crouse Hinds™ + A	Adapter							E	180 Minutes				
					Ceiling or Pendant	taup to 1,												
					Crouse Hinds™ + A Stanchion or Wall	Adapter,												
				Blank	No mounting hood													

- \odot 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered on 90° or 25° Stanchion mounting options.
- Guards for the globes are ordered separately. Refer to catalog pages for complete accessories information.
 Only allowed for Type V and Type V Wide light distribution.
 Type I and Type III use a multiple hinge housing.

- Refer to catalog pages for detailed lumen output information, see Lumen Output (Efficacy) Table.
- Adapters, watertight pendant hood and BH Voltage only certified for NEC/CEC.
- Killark is a registered trademark of Hubbell incorporated.
- Crouse-Hinds is a registered trademarks of Cooper Crouse-Hinds.

DIMENSIONAL DRAWINGS • | MILLIMETERS (INCHES)

With Globe Ø 375.0 (14.76)

MLG*L3 and MLG*L5

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



