

# Mercmaster™ LED Low Profile Luminaires

## Enclosed and Gasketed Fixtures

**NEC/CEC:**  
 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, AEx ec IIC  
 Zone 21, AEx tb IIIC  
 Class I, Zone 2 Ex ec II  
 Class II, Division 1, Groups E,F,G  
 Zone 20, Group IIIC  
 Class II, Division 2, Groups F,G  
 Class III

**NEC/CEC:**  
 Type 3R, 4, 4X  
 IP66/IP67  
 Simultaneous Exposure  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water) ⌘  
 American Bureau of Shipping (ABS) Certified  
 International Dark Sky (IDA) Approved

**ATEX:**  
 Zone 2 and 21-22  
 Ⓜ II 2 D  
 Ⓜ II 3 GD  
 IP66  
 IK08

**IECEX:**  
 Zone 2 and 21-22  
 Ex ec IIC  
 Ex op is tb IIIC  
 Ex tc IIIC  
 IP66  
 IK08

### Applications

- Enclosed and gasketed fixtures suitable for use in:
  - A wide range of industrial, chemical processing and other areas where flammable gases, vapors and combustible dusts are present including simultaneous exposure
  - Marine and wet locations
  - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
- Typical applications include:
  - Walkways/catwalks
  - Stairwells
  - Grain elevators
  - Tunnels
  - Pipe racks
  - Offshore rigs
  - Vessel lighting
  - Cooling towers
  - Processing areas

### Features

- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white.
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III, Mercmaster™ Premium LED and Mercmaster™ LED Generation 3.
- Customize to the application requirements with four different field replaceable globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
- Three light output levels for retrofit of HID fixtures up to 175 W.

Nominal Lumens ①	HID Equivalent	Model Number
3300	70-100W	MLLED2CG5BU
4400	100-150W	MLLED3CG5BU
5500	150-175W	MLLED4CG5BU

- Retrofit adapters for Crouse Hinds™ hood available. See Mercmaster CH Adapters.
- Retrofit adapters for Mercmaster II hoods available. See Mercmaster II Adapters.
- Retrofit adapter for Killark™ hoods available. See Killark™ Adapter.
- New Watertight Pendant Hood 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 servicing.
- Standard 6 kV surge protection.
- Ambient Temperature: BU: -40 °C to +65 °C (-40 °F to +149 °F)  
 BH: -40 °C up to +65 °C (-40 °F up to +149 °F)
- Standard screw-type terminal block can accept UL/CSA .14 to 6 mm<sup>2</sup> (26-10 AWG) wire.
- Heavy duty, high temperature silicone rubber gaskets.

① Prismatic glass refractor is cCSAus certified only.

② Nominal Lumen value for 5000K CCT, clear glass globe. Detailed lumen information is provided in tables.

③ Factory installed. Fusing only permitted for cCSAus rating. (For retrofit applications, fusing must be removed from the mounting hood and ordered in the luminaire).

④ Available for 120-277 VAC models only. NEC, Class I, Division 2 photocells for classified use are available, see PCD2 Series.

⑤ Mounting hoods with photocontrols are not rated IP66, Type 4X or Marine Outside Type (Salt Water), or rated Class II, but are suitable for wet locations.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

✦ Killark is a registered trademark of Hubbell Incorporated

✦ Crouse-Hinds is a registered trademarks of Cooper Crouse-Hinds.



- Standard NPT threads.
- LED L70 rated at 109,000 Hours with a calculated fixture life of 200,000 hours @ +25 °C (+77 °C).
- Field replaceable globes and LED driver.
- Rugged housing with superior thermal design translates to long luminaire life.
- Photobiological Safety, per IEC standards

### Options

- Glass globe and glass refractor guard available, purchase separately.
- All Mercmaster™ luminaires have provision for fusing; add suffix **-F** at the end of the catalog number. ③
- Photocontrols are available with all except ceiling and pendant cone mounting hoods. Add suffix **-1** for 120V, **-2** for 208V, **-3** for 240V, **-4** for 277V. ④

### 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
- Glass refractor guard: die cast aluminum
- Reflector: fiberglass reinforced white polyester

### Standard Finishes

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

### NEC/CEC Certifications and Compliances

- UL Standard: UL 50E, Second Edition; UL 844, Thirteenth Edition; UL 1598, Third Edition; UL 1598A, First Edition; UL 8750, Second Edition;
- CSA Standard: C22.2 No 0-10; C22.2 No. 94.2-15; C22.2 No. E60598-1:16; C22.2 No. 137-M1981; C22.2 No. 250.0-08; C22.2 No. 250.13-14
- ANSI/IEC Standard: 60529
- cCSAus Listed: 164460

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### ATEX/IECEX Certifications and Compliances

- Certification Type: Mercmaster™ Low Profile
  - Gas: Zones 2
    - Conforming to ATEX 2014/34/EU: II 3 G
    - Type of Protection: Ex ec IIC T\* Gc
    - Temperature Class: T5 to T4
  - Dust: Zones 21 and 22
    - Conforming to ATEX 2014/34/EU: II 2 D
    - Type of Protection: Ex op is tb IIIC T\*\*C Db, Ex tc IIIC T\*\*C Dc
    - Surface Temperature: +66 °C to +88 °C (+151 °F to +190 °F)
- Ambient Temperature: -40 °C up to +65 °C (-40 °F up to 149 °F)
- ATEX Certificate: Sira 17ATEX9365X

- IECEX Certificate: IECEX SIR 17.0085X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471

### DesignLights™ Consortium

- Check DLC QPL for current list of products.

### International Dark-Sky Association

- IDA Dark Sky Approved when ordering [I]MLLED[A/B/C/D/R/W] xxW[P/D/G]5Bxxx with MMVISOR accessory

### Other Certification

- INMETRO Certificate: BVC20.3821-X

### 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.

#### Fuses (optional)

Fuses factory installed in luminaire housing ①. Use of fuse voids Marine Outside Type (Salt Water) rating.



#### Driver Assembly

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



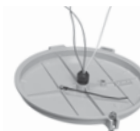
#### Cooler Operating Cone Hood

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



#### Watertight Pendant Hood

Redesigned Pendant hood provides protection against water ingress in the conduit utilizing an IP 68 cord grip with three wire holes 4mm in diameter.



#### Photocell (optional)

Factory Installed in the Mounting Hood. Available for all fixtures ② except cone and ceiling mount. Provides continuous ON-OFF dusk-to-dawn control. *Note: Fixtures with PCD2 photocontrols are not rated IP66, Type 4X, Marine Outside Type (Salt Water), but are suitable for wet locations.*

#### Terminal Blocks

A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from UL/CSA .14 to 6 mm<sup>2</sup> (26-10 AWG).

#### Epoxy Finish

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

#### Electrical Protection

Ground wire provided to bond mounting hood to fixture housing. External Grounding provision for additional safety.

#### Reflectors and Visors

Reflectors are thick, tough fiberglass reinforced white polyester. Visor is aluminum with electrostatically applied, gray epoxy powder coat finish. Quickly attach either accessory to luminaire with furnished stainless steel screws.



#### Mounting Hood and Globe Gaskets

Silicone rubber gaskets seal out moisture, dirt and dust. Stays flexible, withstands extreme 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.



#### Prismatic Refractors

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



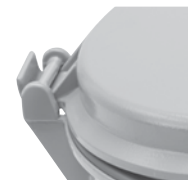
#### “Safety” Cable

Safety cable option threads through the fixture housing for additional safety.



#### “Safety” High Hinge

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



\* Refer to ambient range table which is contained in the IECEX certificate of conformity file or the catalog pages for T-code ratings.

① Factory Installed. Fusing only permitted for cCSAus rating.

② Available for 120-277 VAC models only.

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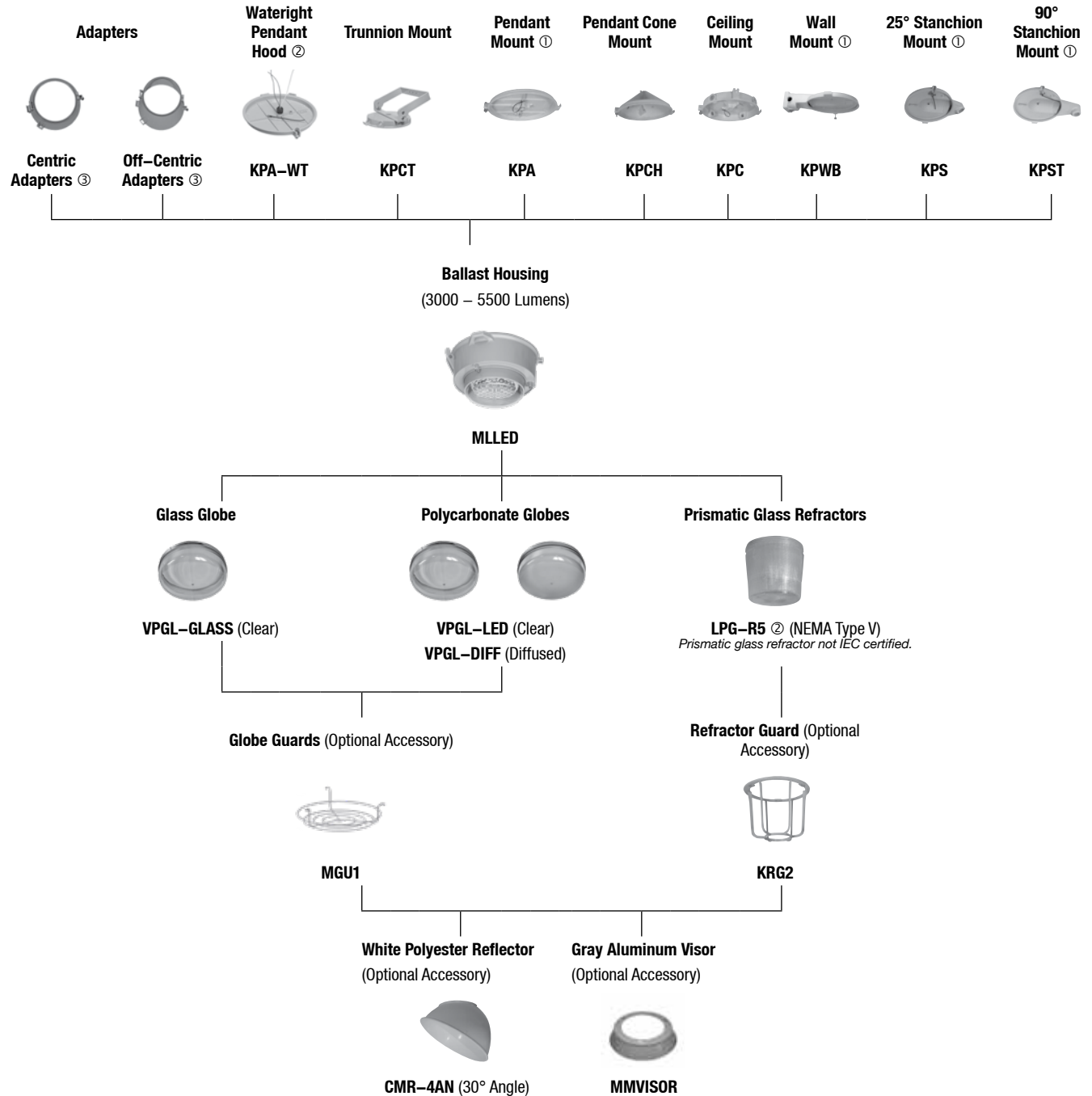
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### Mercmaster™ LED Low Profile Family Tree



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

② Certified for cCSAus only.

③ See mounting hood section for part numbers.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

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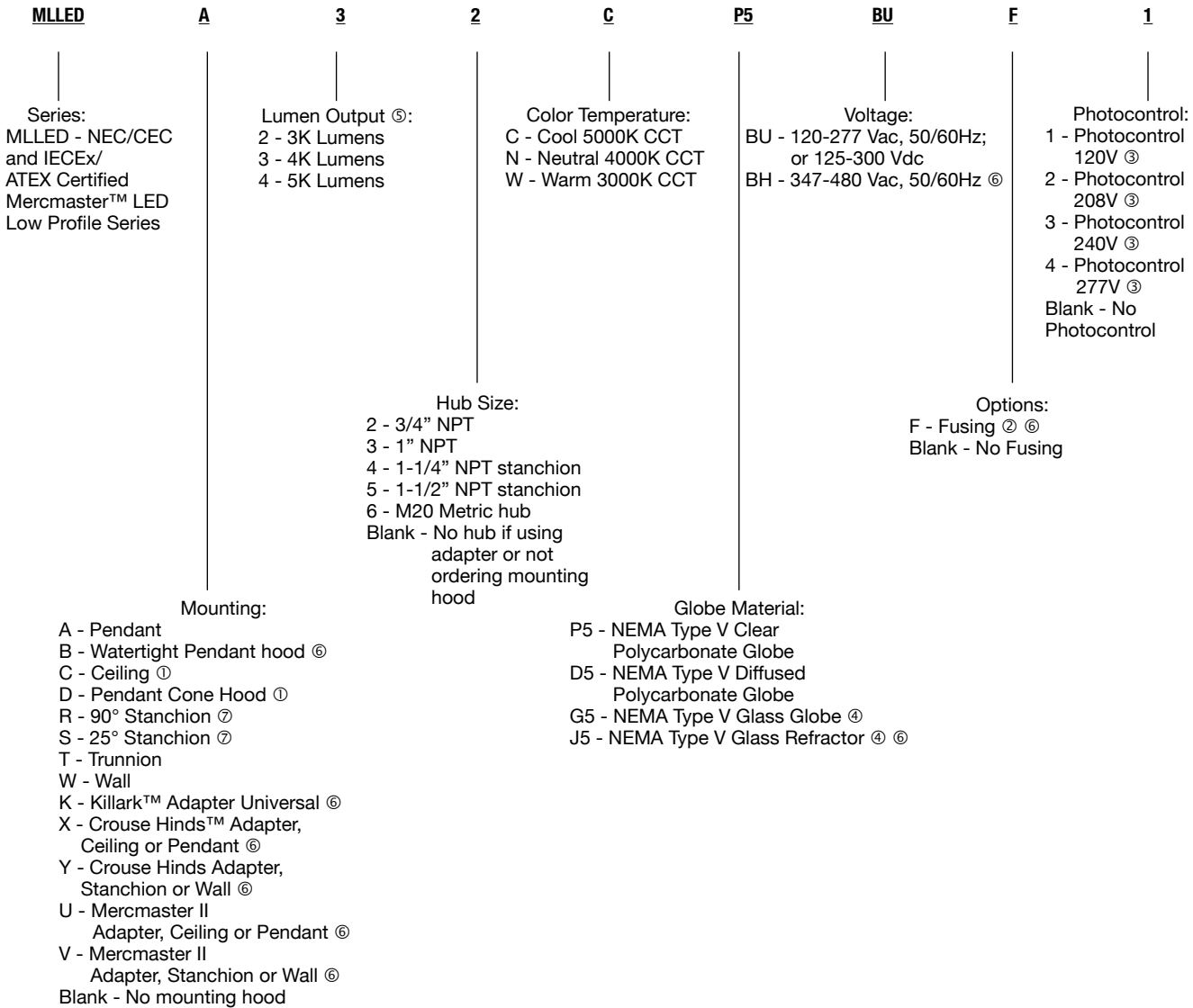
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Order using catalog numbering guides below or select catalog number from tables on following pages.

### Catalog Numbering Guide For Hazardous Locations:



① 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.  
 ② Factory installed. Fusing is mounted in the driver housing. (For retrofit applications that require fusing, fusing must be removed from the mounting hood and ordered in the luminaire). Fusing only permitted for cCSAus rating.  
 ③ 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.  
 ④ Guards for the glass refractors and globes are ordered separately. See the Accessories for more information.  
 ⑤ For specific lumen output information, see Lamp Comparison Chart.  
 ⑥ Certified for cCSAus only.  
 ⑦ 3/4" NPT, 1" NPT and Metric M20 hub entries not offered in this mounting option.  
 ⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

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### NEC/CEC Temperature Codes

Lamp		NEC/CEC							Gas/Dust
Model	Type	Ambient Temperature °C (°F)	Supply Wire Temperature °C (°F)	Gas		Dust		Simultaneous ① Class I, Division 2/ Class II, Division 1	
				Class I, Division 2 Groups A, B, C, D ①	Class I, Zone 2 Group IIC	Class II, Division 1, Groups E, F and G ②	Zone 21, Group IIIC		
MLLED2	LED	40 (104)	90 (194)	T5	T5	T6	T6	T5	
	LED	55 (131)	90 (194)	T5	T5	T6	T6	T5	
MLLED3	LED	65 (149)	90 (194)	T4A	T4	T6	T6	T4A	
	LED	40 (104)	90 (194)	T4A	T4	T6	T6	T4A	
	LED	55 (131)	90 (194)	T4A	T4	T6	T6	T4A	
	LED	65 (149)	90 (194)	T4A	T4	T5	T5	T4A	
MLLED4	LED	40 (104)	90 (194)	T4A	T4	T6	T6	T4A	
	LED	55 (131)	90 (194)	T4	T4	T6	T5	T4	
	LED	65 (149)	90 (194)	T4	T4	T5	T5	T4	

### ATEX/IECEX Temperature Codes

Model Number	Gas T Rating			Dust Surface T°		
	Ta= +40 °C (+104 °F)	Ta= +55 °C (+131 °F)	Ta= +65 °C (+149 °F)	Ta= +40 °C (+104 °F)	Ta= +55 °C (+131 °F)	Ta= +65 °C (+149 °F)
MLLED2	T5	T5	T4	T66°C	T79°C	T88°C
MLLED3	T4	T4	T4	T66°C	T79°C	T88°C
MLLED4	T4	T4	T4	T66°C	T79°C	T88°C

Ambient Temperature Range: -40 °C to +65 °C (-40 °F to +149 °F)

“T” Numbers Represent the Maximum Internal Temperature ① or Maximum Surface Temperature ②

“T” #	NEC/CEC															
	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	351-450 (664-842)	326-350 (619-662)	301-325 (574-617)	281-300 (538-572)	261-280 (502-536)	231-260 (448-500)	216-230 (421-446)	201-215 (394-419)	181-200 (358-392)	166-180 (331-356)	161-165 (322-329)	136-160 (277-320)	121-135 (250-275)	101-120 (214-248)	86-100 (187-212)	85 (185)
“T” #	ATEX/IECEX															
	T1	T2					T3			T4	T5	T6				
Temp. Range °C (°F)	301-450 (547-842)	201-300 (394-572)					136-200 (277-392)			101-135 (214-275)	86-100 (187-212)	85 (185)				

① T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC, and Zone 2, 21 and 22 locations designated by ATEX/IECEX.

② T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and 2 as designated by the NEC, and Zone 2, 21 and 22 locations designated by ATEX/IECEX.

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Lumen Values Table ①②

Model	Lumens ①			Type V Prismatic Glass Refractor	CRI ②	Color Temp CCT	Equivalent HID Luminaire
	Polycarbonate Clear Globe	Polycarbonate Diffused Globe	Glass Clear Globe				
<b>NEMA Type V</b>							
MLLED2	3200	3100	3300	3000			70-100W
MLLED3	4200	4100	4400	4000	>70	5000K	100-150W
MLLED4	5300	5150	5500	4900			150-175W
<b>NEMA Type V</b>							
MLLED2	3000	2900	3100	2800			70-100W
MLLED3	4000	3900	4200	3800	>70	4000K	100-150W
MLLED4	5000	4900	5200	4650			150-175W
<b>NEMA Type V</b>							
MLLED2	3000	2900	3100	2800			70-100W
MLLED3	3900	3800	4100	3700	>70	3000K	100-150W
MLLED4	4900	4800	5100	4600			150-175W

① All lumen values are typical (tolerance +/- 10%).

② 70 minimum.

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### Electrical Ratings ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
MLLED2	120 Vac	28.0	.28	> .94	< 20%
	277 Vac	28.0	.13		
	170 Vdc	27.2	.16	—	
	300 Vdc	27.2	.09		
	347 Vac	29.7	.10	> .93	
	480 Vac	29.8	.06		
MLLED3	120 Vac	38.0	.38	> .96	< 20%
	277 Vac	38.0	.16		
	170 Vdc	37.4	.22	—	
	300 Vdc	39.0	.13		
	347 Vac	39.6	.13	> .96	
	480 Vac	39.7	.08		
MLLED4	120 Vac	48.0	.48	> .97	< 20%
	277 Vac	48.0	.20		
	170 Vdc	49.3	.29	—	
	300 Vdc	48.0	.16		
	347 Vac	50.5	.16	> .97	
	480 Vac	50.4	.10		

① All values are typical (tolerance +/-10%).

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### Fixture Unit — Ballast Body and Globe or Refractor











### Fixture Housing - For Hazardous Locations

#### Catalog Number ①

Lumen Level	LED Wattage	Light Level Equivalent	NEMA Type	Polycarbonate Globe ①②③	Polycarbonate Diffused Globe ①②③	Glass Globe ①②③④	With Type V Glass Refractor ①②③④
3K	28	70-100W HPS	Type V	MLLED2XP5	MLLED2XD5	MLLED2XG5	MLLED2XJ5
4K	38	100-150W HPS	Type V	MLLED3XP5	MLLED3XD5	MLLED3XG5	MLLED3XJ5
5K	48	150-175W HPS	Type V	MLLED4XP5	MLLED4XD5	MLLED4XG5	MLLED4XJ5

### Mounting Hoods

	Description	Hub Size	Catalog Number
<b>Pendant</b> 	One Hub	3/4	KPA-75
		1	KPA-100
		M20	KPA-M20
<b>Watertight Pendant Hood ⑤</b> 	One Hub	3/4	KPA-75-WT
		1	KPA-100-WT
<b>Pendant Cone</b> 	One Hub, Rigid Mounting	3/4	KPCH-75
		1	KPCH-100
		M20	KPCH-M20
<b>Trunnion</b> 	One Hub	3/4	KPCT-75
		1	KPCT-100
<b>Ceiling</b> 	Five Hubs, Four Close-Up Plugs	3/4	KPC-75
		1	KPC-100
		M20	KPC-M20
<b>Wall</b> 	Five Hubs, Four Close-Up Plugs	3/4	KPWB-75
		1	KPWB-100
		M20	KPWB-M20
<b>25° Stanchion</b> 	One Hub	1-1/4	KPS-125
		1-1/2	KPS-150
<b>90° Stanchion</b> 	One Hub	1-1/4	KPST-125
		1-1/2	KPST-150

① For 120-277 VAC, use suffix **-BU**. For 347-480 VAC, use suffix **-BH**.

② For optional fusing, add suffix **-F** to the end of the catalog number. Factory installed.

③ **X** = Color temperature; **C** = Cool, 5000K CCT, **N** = Neutral, 4000K CCT, **W** = Warm, 3000K CCT. Example: **MLLED2CP5**.

④ Guards are available for fixtures with glass globe or refractor. See following pages for accessory ordering information.

⑤ Must be ordered separately.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating



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## Enclosed and Gasketed Fixtures




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 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, AEx ec IIC  
 Zone 21, AEx tb IIIC  
 Class I, Zone 2 Ex ec II  
 Class II, Division 1, Groups E,F,G  
 Zone 20, Group IIIC  
 Class II, Division 2, Groups F,G  
 Class III

**NEC/CEC:**  
 Type 3R, 4, 4X  
 IP66/IP67  
 Simultaneous Exposure  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water) ⌘  
 American Bureau of Shipping (ABS) Certified  
 International Dark Sky (IDA) Approved

**ATEX:**  
 Zone 2 and 21-22  
 II 2 D  
 II 3 GD  
 IP66  
 IK08

**IECEX:**  
 Zone 2 and 21-22  
 Ex ec IIC  
 Ex op is tb IIIC  
 Ex tc IIIC  
 IP66  
 IK08

### Replacement Parts

	Description	Catalog Number
<b>Globes and Gaskets</b>		
	Clear Globe (polycarbonate)	VPGL-LED
	Diffused Globe (polycarbonate)	VPGL-DIFF
	Glass Globe	VPGL-GLASS






	Light Distribution	Catalog Number
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### Closed Prismatic Glass Refractors – All Heat-Resistant




	NEMA Type V	LPG-R5
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Glass Refractor ①

### Accessories

	Description	Catalog Number
<b>White Polyester Reflectors</b>		
	30° Angle	CMR-4AN
<b>Guards</b>		
	Glass Globe Guard	MGU1
	Refractor Guard	KRG2
<b>Safety Cable</b>		
	Stainless steel	LEDSC
<b>Visor</b>		
	Electrostatically applied gray epoxy powder coat finish on Aluminum Visor	MMVISOR

### Mounting Hood Adapters

	Manufacturer	Installed Mounting Hood	Appleton Adapter Catalog Number
	Crouse-Hinds™ Champ®	APM2/3 - Pendant CM2/3 - Ceiling HPM2 - Flexible Pendant	MMADCHVS
	Appleton™ Mercmaster™ II	LPA75/100 - Pendant LPC75/100 - Ceiling	MMADIIS
	Crouse-Hinds™ Champ®	TWM2/3 - Wall JM5 - 25° Angle Stanchion PM5 - 90° Straight Stanchion	MMADCHVA
	Appleton™ Mercmaster™ II	LPWB75, LPWB100 - Wall LPS125, LPS150 - 25° Angle Stanchion	MMADIIA
	Killark™	VMX2B, VMX3B, VMX6B, VMX7B, VMX9B - Ceiling VMA2B, VMA3B - Pendant VMD4B, VMD5B, VMS4B, VMS5B - Stanchion VMB2B, VMB3B - Wall VMC2B, VMC3B - Pendant Cone	MMADKVA

① NEMA Type V refractor only permitted for cCSAus rating.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

# Mercmaster™ LED Low Profile Luminaires

## Enclosed and Gasketed Fixtures

**NEC/CEC:**  
 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, AEx ec IIC  
 Zone 21, AEx tb IIIC  
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 Class II, Division 2, Groups F,G  
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**NEC/CEC:**  
 Type 3R, 4, 4X  
 IP66/IP67  
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**IECEX:**  
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 Ex tc IIIC  
 IP66  
 IK08

### PCD2 Series Factory Sealed Hazardous Location Photocontrol ①

	Voltage Range	Max VA	Max Current Amps	Suffix Designation	Catalog Number
--	---------------	--------	------------------	--------------------	----------------

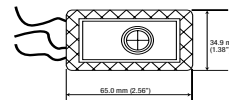
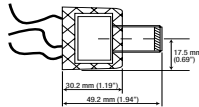
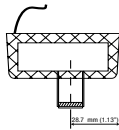
Factory Installed Photocontrol – Not for ceiling or pendant cone Add to fixture catalog after voltage; i.e.: MLLEDA32XP5BU1. ②

 Mercmaster™ III wall mounting hood with photocontrol installed shown	120 V, 50/60 Hz	1000	8.3 Amp		1
	208 V, 50/60 Hz	1000	4.8 Amp		2
	240 V, 50/60 Hz	1000	4.2 Amp		3
	277 V, 50/60 Hz	1000	3.6 Amp		4

Photocontrol in FS Cover for Use with FS/FD Box Supplied with two stainless steel screws. For neoprene gasket, order catalog number FS-GKR-1N.




120 V, 50/60 Hz	1000	8.3 Amp	<b>FSKA-PC120D2</b>
208 V, 50/60 Hz	1000	4.8 Amp	
240 V, 50/60 Hz	1000	4.2 Amp	<b>FSKA-PC247D2</b>
277 V, 50/60 Hz	1000	3.6 Amp	



### Photocontrol Top Hats

Mounting Hood	Hub Size	Photocontrol Option	Catalog Number
Pendant	3/4" NPT	120V	KPA75PC12D2
Pendant	3/4" NPT	208V, 240V, 277V	KPA75PC24D2
Pendant	1" NPT	120V	KPA100PC12D2
Pendant	1" NPT	208V, 240V, 277V	KPA100PC24D2
Wall	3/4" NPT	120V	KPWB75PC12D2
Wall	3/4" NPT	208V, 240V, 277V	KPWB75PC24D2
Wall	1" NPT	120V	KPWB100PC12D2
Wall	1" NPT	208V, 240V, 277V	KPWB100PC24D2
25 Stanchion	1-1/4" NPT stanchion	120V	KPS125PC12D2
25 Stanchion	1-1/4" NPT stanchion	208V, 240V, 277V	KPS125PC24D2
25 Stanchion	1-1/2" NPT stanchion	120V	KPS150PC12D2
25 Stanchion	1-1/2" NPT stanchion	208V, 240V, 277V	KPS150PC24D2
90 Stanchion	1-1/4" NPT stanchion	120V	KPST125PC12D2
90 Stanchion	1-1/4" NPT stanchion	208V, 240V, 277V	KPST125PC24D2
90 Stanchion	1-1/2" NPT stanchion	120V	KPST150PC12D2
90 Stanchion	1-1/2" NPT stanchion	208V, 240V, 277V	KPST150PC24D2

### Replacement Drivers

	Voltage ③	Driver Wattage	Luminaire Model	Constant Current Settings	Catalog Number
	BU	50 Watt	MLLED2	720mA	APMS050C135UD72
	BH			720mA	APMS050C135HD72
	BU	50 Watt	MLLED3	1000mA	APMS050C135UD10
	BH			1000mA	APMS050C135HD10
	BU	50 Watt	MLLED4	1300mA	APMS050C135UD13
	BH			1300mA	APMS050C135HD13

① Fixtures with photocontrols are not rated IP66/67, Type 4X, marine outside type (salt water), or Class II. Available for 120-277 VAC versions only.

② X = Color temperature; C = Cool, 5000K CCT, N = Neutral, 4000K CCT, W = Warm, 3000K CCT

③ BH voltage only permitted for cCSAus rating.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

# Mercmaster™ LED Low Profile Luminaires

## Enclosed and Gasketed Fixtures

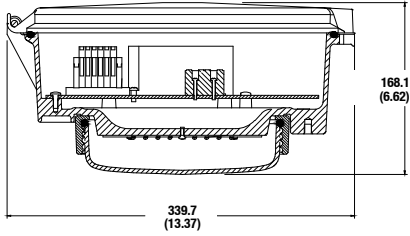
**NEC/CEC:**  
 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, AEx ec IIC  
 Zone 21, AEx tb IIIC  
 Class I, Zone 2 Ex ec II  
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 Zone 20, Group IIIC  
 Class II, Division 2, Groups F,G  
 Class III

**NEC/CEC:**  
 Type 3R, 4, 4X  
 IP66/IP67  
 Simultaneous Exposure  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water) ⚠  
 American Bureau of Shipping (ABS) Certified  
 International Dark Sky (IDA) Approved

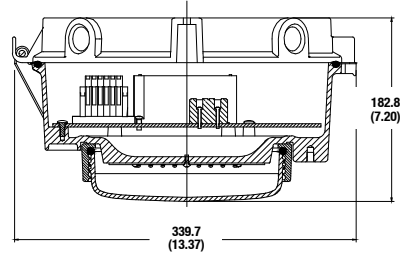
**ATEX:**  
 Zone 2 and 21-22  
 II 2 D  
 II 3 GD  
 IP66  
 IK08

**IECEx:**  
 Zone 2 and 21-22  
 Ex ec IIC  
 Ex op is tb IIIC  
 Ex tc IIIC  
 IP66  
 IK08

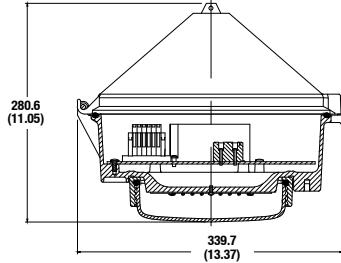
### Dimensions in Millimeters (Inches)



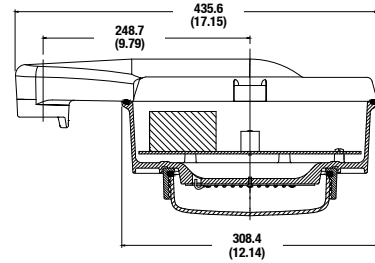
**Pendant Mount**



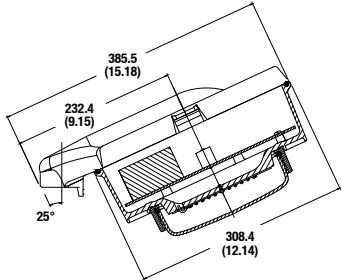
**Ceiling Mount**



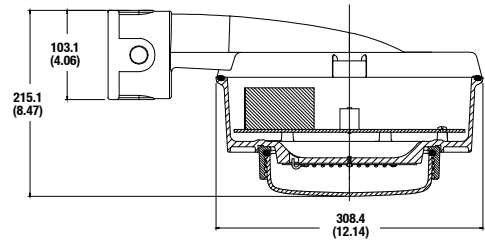
**Pendant Cone Mount**



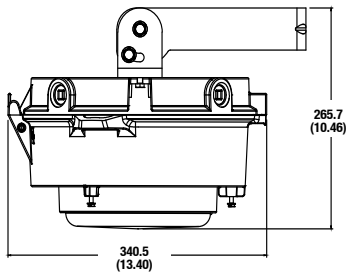
**90° Stanchion Mount**



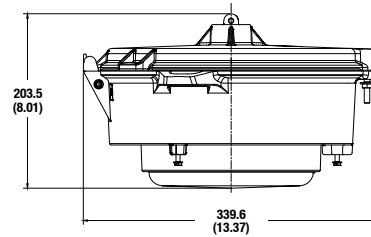
**25° Stanchion Mount**



**Wall Mount**



**Trunnion Mount**



**Watertight Pendant Mount**

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

**APPLETON™**

LED/AREA: NEC/CEC, ATEX/IECEx ENCLOSED AND GASKETED

# Mercmaster™ LED Low Profile Luminaires

## Enclosed and Gasketed Fixtures

**NEC/CEC:**  
 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, AEx ec IIC  
 Zone 21, AEx tb IIIC  
 Class I, Zone 2 Ex ec II  
 Class II, Division 1, Groups E,F,G  
 Zone 20, Group IIIC  
 Class II, Division 2, Groups F,G  
 Class III

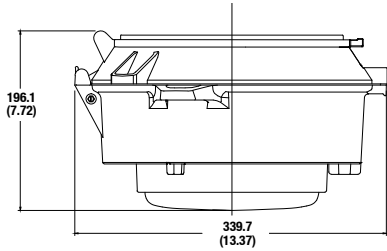
**NEC/CEC:**  
 Type 3R, 4, 4X  
 IP66/IP67  
 Simultaneous Exposure  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water) ⌘  
 American Bureau of Shipping (ABS) Certified  
 International Dark Sky (IDA) Approved

**ATEX:**  
 Zone 2 and 21-22  
 II 2 D  
 II 3 GD  
 IP66  
 IK08

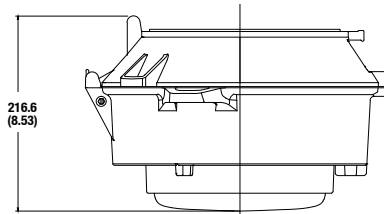
**IECEX:**  
 Zone 2 and 21-22  
 Ex ec IIC  
 Ex op is tb IIIC  
 Ex tc IIIC  
 IP66  
 IK08

### Dimensions in Millimeters (Inches)

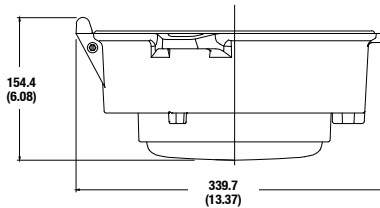
#### With Polycarbonate Globe



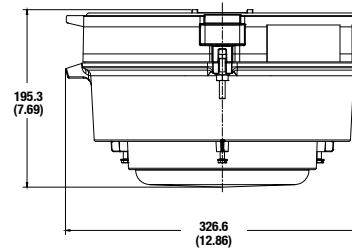
**CH-Adapter-Centric**



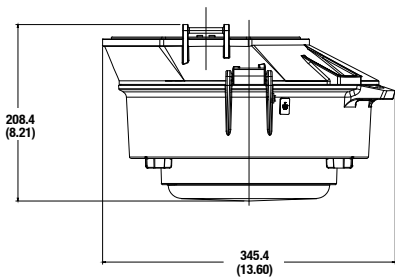
**MM-II Adapter-Centric**



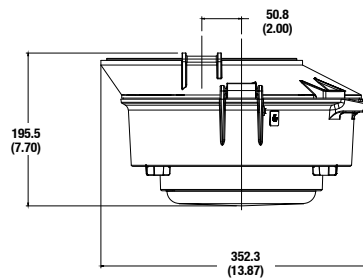
**Driver Housing**



**Killark-Adapter-Centric**



**CH-Adapter Off-Centric**



**MM-II Adapter Off Centric**

### Mercmaster™ LED Low Profile Fixture and Mounting Hood Weights

Description	Weight kg (lb)
Fixture Unit	4.6 (10.10)
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)
MM-II Adapter-Centric	0.9 (2.00)
MM-II Adapter-Off-Centric	0.9 (2.00)
CH-Adapter-Centric	0.9 (2.00)
CH-Adapter-Off-Centric	0.9 (2.00)
Killark-Adapter-Centric	1.0 (2.3)

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

# Mercmaster™ LED Low Profile Luminaires

## Enclosed and Gasketed Fixtures

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 Class I, Division 2, Groups A,B,C,D  
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 Zone 21, AEx tb IIIC  
 Class I, Zone 2 Ex ec II  
 Class II, Division 1, Groups E,F,G  
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 Class II, Division 2, Groups F,G  
 Class III

**NEC/GEC:**  
 Type 3R, 4, 4X  
 IP66/IP67  
 Simultaneous Exposure  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water) ⌘  
 American Bureau of Shipping (ABS) Certified  
 International Dark Sky (IDA) Approved

**ATEX:**  
 Zone 2 and 21-22  
 II 2 D  
 II 3 GD  
 IP66  
 IK08

**IECEX:**  
 Zone 2 and 21-22  
 Ex ec IIC  
 Ex op is tb IIIC  
 Ex tc IIIC  
 IP66  
 IK08

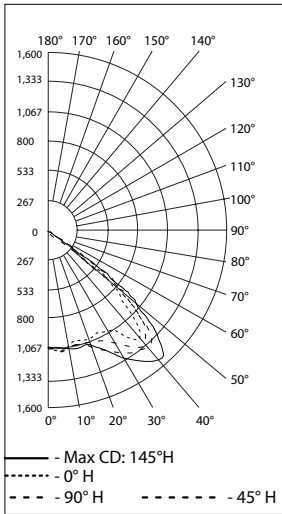
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Type V, Clear Polycarbonate 5000K CCT

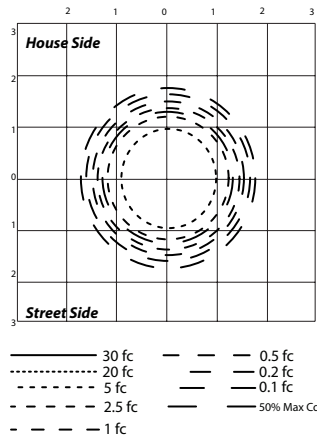
REPORT NUMBER: MLLED2CP5BU

Luminaire Lumens 3,198

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	932.7	29.2%
0-40	1,750.7	54.7%
0-60	3,144.3	98.3%
60-90	48.0	1.5%
70-100	17.6	0.6%
90-120	4.8	0.2%
0-90	3,192.3	99.8%
90-180	5.7	0.2%
0-180	3,198.0	100%

#### LUMENS PER ZONE

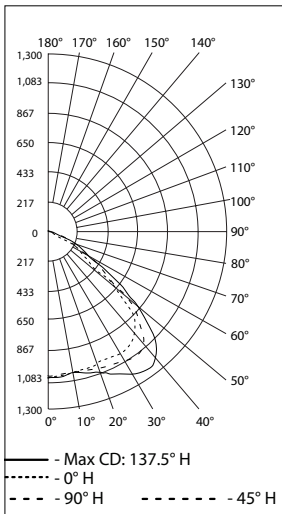
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	102.0	3.2%	90-100	1.9	0.1%
10-20	302.3	9.5%	100-110	1.9	0.1%
20-30	528.5	16.5%	110-120	1.0	0%
30-40	817.9	25.6%	120-130	0.8	0%
40-50	969.4	30.3%	130-140	0.0	0%
50-60	424.2	13.3%	140-150	0	0%
60-70	32.3	1.0%	150-160	0.0	0%
70-80	10.3	0.3%	160-170	0.0	0%
80-90	5.4	0.2%	170-180	0.0	0%

Type V, Clear Polycarbonate 5000K CCT

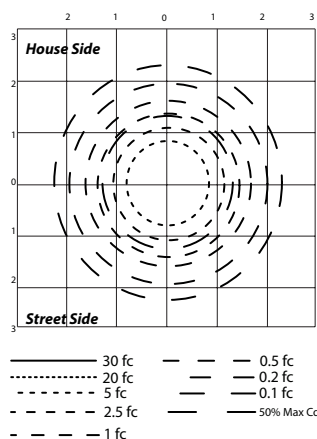
REPORT NUMBER: MLLED2CD5BU

Luminaire Lumens 3,103

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	903.1	29.1%
0-40	1,609.3	51.9%
0-60	2,795.0	90.1%
60-90	283.4	9.1%
70-100	107.9	3.5%
90-120	24.0	0.8%
0-90	3,078.4	99.2%
90-180	25.3	0.8%
0-180	3,103.7	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	100.3	3.2%	90-100	9.0	0.3%
10-20	298.2	9.6%	100-110	10.7	0.3%
20-30	504.6	16.3%	110-120	4.3	0.1%
30-40	706.2	22.8%	120-130	1.2	0%
40-50	735.2	23.7%	130-140	0.1	0%
50-60	450.5	14.5%	140-150	0	0%
60-70	184.5	5.9%	150-160	0	0%
70-80	75.4	2.4%	160-170	0	0%
80-90	23.5	0.8%	170-180	0	0%

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

# Mercmaster™ LED Low Profile Luminaires

## Enclosed and Gasketed Fixtures

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 Class III

**NEC/CEC:**  
 Type 3R, 4, 4X  
 IP66/IP67  
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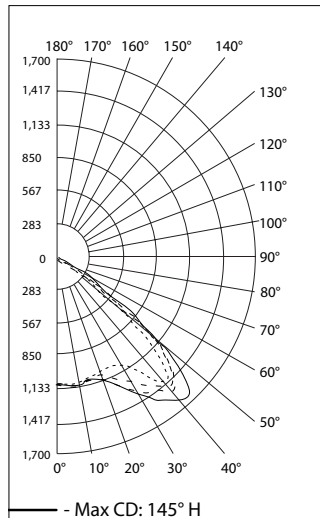
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Type V, Clear Polycarbonate 5000K CCT

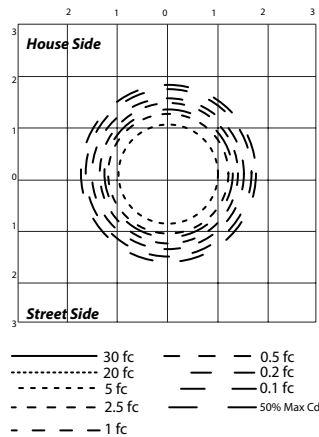
REPORT NUMBER: MLLED2CG5BU

Luminaire Lumens 3,334

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	960.0	28.8%
0-40	1,828.8	54.8%
0-60	3,298.1	98.9%
60-90	32.1	1%
70-100	8.4	0.3%
90-120	3.9	0.1%
0-90	3,330.2	99.9%
90-180	4.2	0.1%
0-180	3,334.5	100%

#### LUMENS PER ZONE

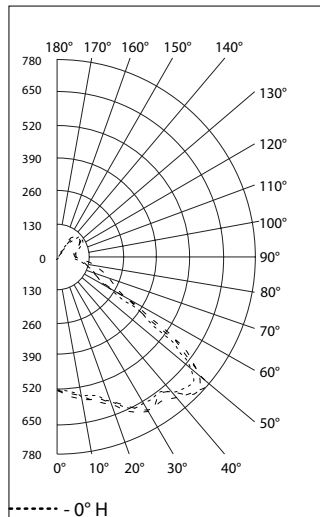
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	105.6	3.2%	90-100	1.1	0%
10-20	309.3	9.3%	100-110	1.2	0%
20-30	545.0	16.3%	110-120	1.6	0%
30-40	868.8	26.1%	120-130	0.3	0%
40-50	1,049.7	31.5%	130-140	0.0	0%
50-60	419.6	12.6%	140-150	0.1	0%
60-70	24.8	0.7%	150-160	0	0%
70-80	4.9	0.1%	160-170	0	0%
80-90	2.4	0.1%	170-180	0	0%

Type V, Clear Polycarbonate 5000K CCT

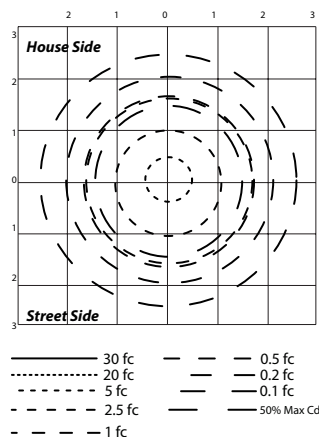
REPORT NUMBER: MLLED2CJ5BU

Luminaire Lumens 3,020

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	526.8	17.4%
0-40	959.4	31.8%
0-60	2,035.0	67.4%
60-90	516.7	17.1%
70-100	363.7	12%
90-120	231.1	7.6%
0-90	2,551.7	84.5%
90-180	468.9	15.5%
0-180	3,020.6	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	52.5	1.7%	90-100	81.0	2.7%
10-20	167.2	5.5%	100-110	70.8	2.3%
20-30	307.0	10.2%	110-120	79.3	2.6%
30-40	432.6	14.3%	120-130	104.8	3.5%
40-50	573.9	19.0%	130-140	90.3	3%
50-60	501.7	16.6%	140-150	37.8	1.3%
60-70	234.1	7.7%	150-160	4.9	0.2%
70-80	167.4	5.5%	160-170	0.0	0%
80-90	115.3	3.8%	170-180	0	0%

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

# Mercmaster™ LED Low Profile Luminaires

## Enclosed and Gasketed Fixtures

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 Class I, Division 2, Groups A,B,C,D  
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 Simultaneous Exposure  
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 International Dark Sky (IDA) Approved

**ATEX:**  
 Zone 2 and 21-22  
 II 2 D  
 II 3 GD  
 IP66  
 IK08

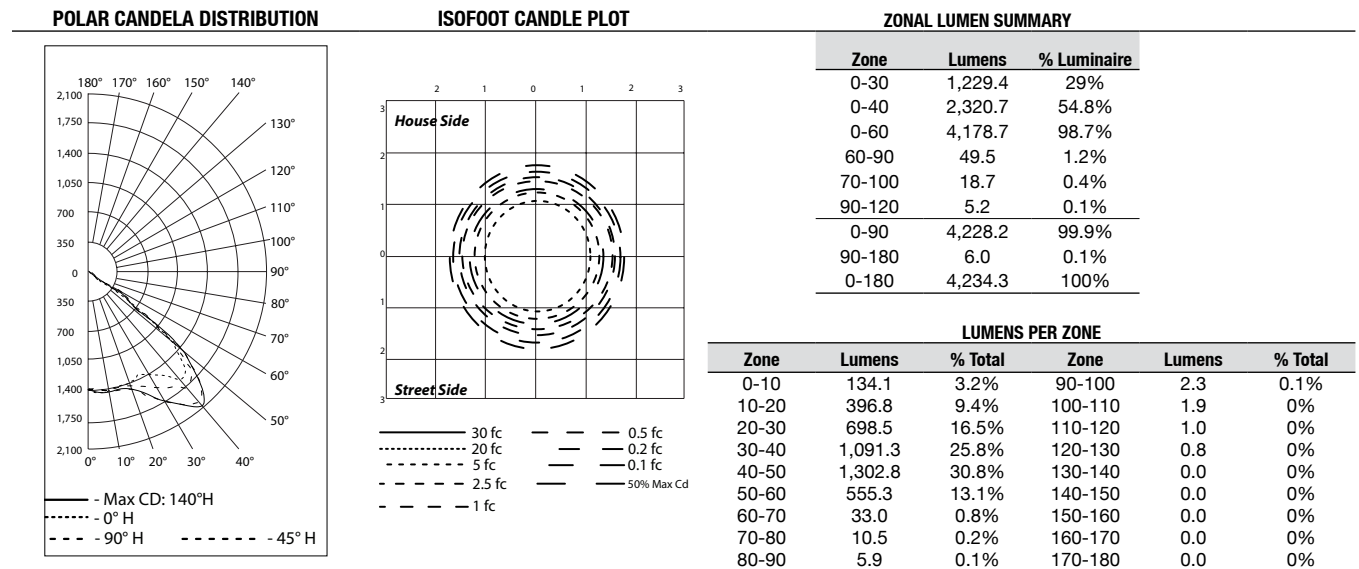
**IECEX:**  
 Zone 2 and 21-22  
 Ex ec IIC  
 Ex op is tb IIIC  
 Ex tc IIIC  
 IP66  
 IK08

### Photometric Data — DATA SHOWN IS ABSOLUTE

**Type V, Clear Polycarbonate 5000K CCT**

REPORT NUMBER: MLLED3CP5BU

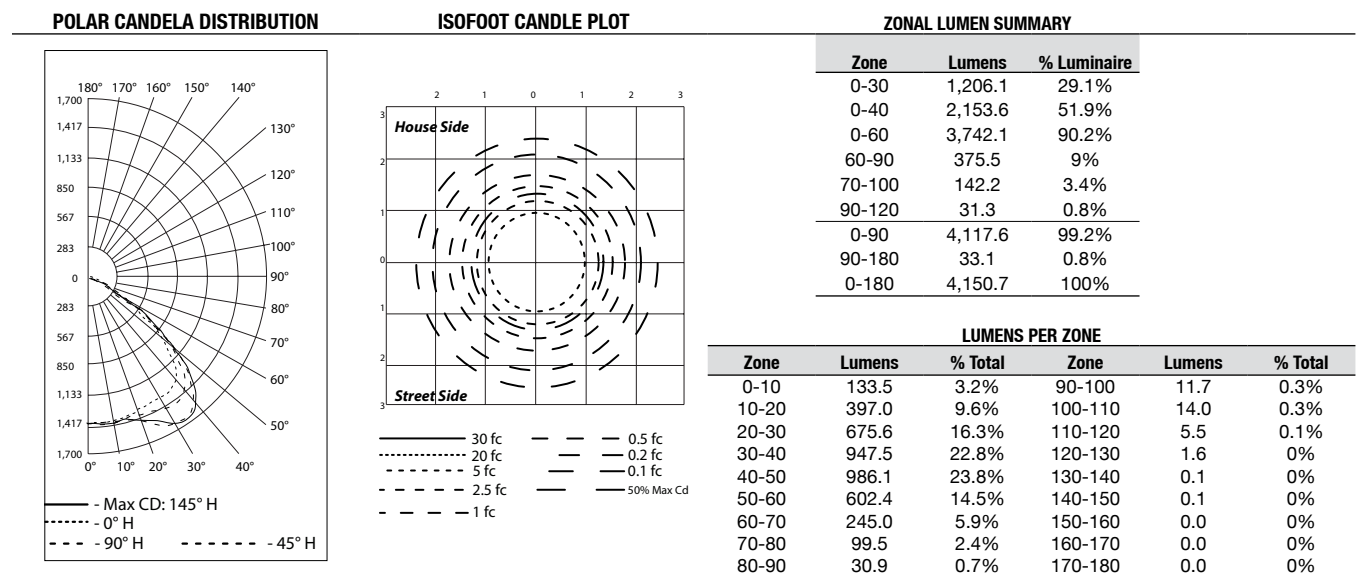
Luminaire Lumens 4,234



**Type V, Clear Polycarbonate 5000K CCT**

REPORT NUMBER: MLLED3CD5BU

Luminaire Lumens 4,151



⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.



# Mercmaster™ LED Low Profile Luminaires

## Enclosed and Gasketed Fixtures

**NEC/CEC:**  
 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, AEx ec IIC  
 Zone 21, AEx tb IIIC  
 Class I, Zone 2 Ex ec II  
 Class II, Division 1, Groups E,F,G  
 Zone 20, Group IIIC  
 Class II, Division 2, Groups F,G  
 Class III

**NEC/CEC:**  
 Type 3R, 4, 4X  
 IP66/IP67  
 Simultaneous Exposure  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water) ⌘  
 American Bureau of Shipping (ABS) Certified  
 International Dark Sky (IDA) Approved

**ATEX:**  
 Zone 2 and 21-22  
 II 2 D  
 II 3 GD  
 IP66  
 IK08

**IECEX:**  
 Zone 2 and 21-22  
 Ex ec IIC  
 Ex op is tb IIIC  
 Ex tc IIIC  
 IP66  
 IK08

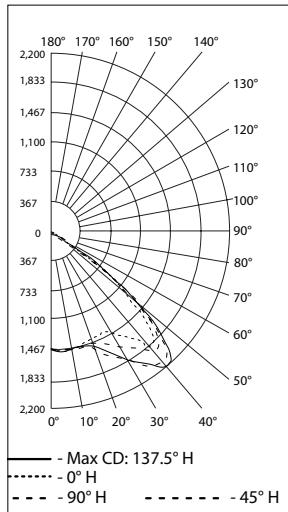
### Photometric Data – DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

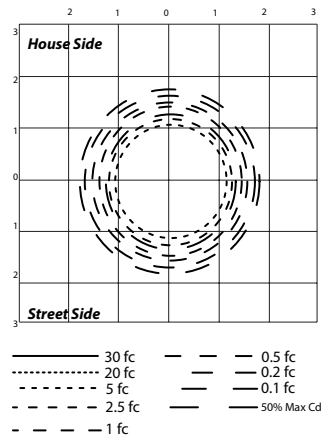
REPORT NUMBER: MLLED3CG5BU

Luminaire Lumens 4,468

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,282.8	28.7%
0-40	2,447.8	54.8%
0-60	4,419.1	98.9%
60-90	42.9	1%
70-100	11.0	0.2%
90-120	4.8	0.1%
0-90	4,461.9	99.9%
90-180	6.1	0.1%
0-180	4,468.0	100%

#### LUMENS PER ZONE

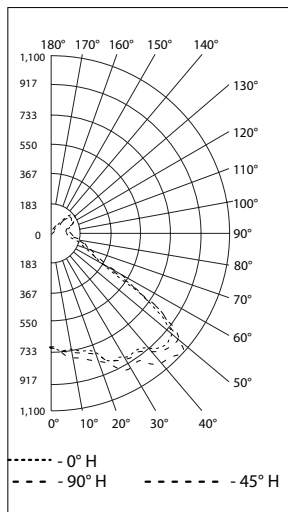
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	140.3	3.1%	90-100	1.2	0%
10-20	411.6	9.2%	100-110	1.4	0%
20-30	730.9	16.4%	110-120	2.1	0%
30-40	1,164.9	26.1%	120-130	0.6	0%
40-50	1,407.0	31.5%	130-140	0.1	0%
50-60	564.3	12.6%	140-150	0.4	0%
60-70	33.0	0.7%	150-160	0.2	0%
70-80	6.5	0.1%	160-170	0.1	0%
80-90	3.3	0.1%	170-180	0.0	0%

Type V, Clear Polycarbonate 5000K CCT

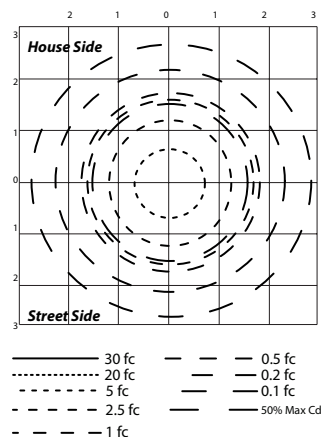
REPORT NUMBER: MLLED3CJ5BU

Luminaire Lumens 4,020

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	699.2	17.4%
0-40	1,275.6	31.7%
0-60	2,714.3	67.5%
60-90	689.0	17.1%
70-100	484.7	12.1%
90-120	307.5	7.6%
0-90	3,403.3	84.6%
90-180	617.3	15.4%
0-180	4,020.6	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	70.0	1.7%	90-100	107.5	
10-20	222.3	5.5%	100-110	94.0	
20-30	406.9	10.1%	110-120	106.0	
30-40	576.4	14.3%	120-130	137.5	
40-50	768.1	19.1%	130-140	116.8	
50-60	670.6	16.7%	140-150	49.1	
60-70	311.8	7.8%	150-160	6.2	
70-80	223.5	5.6%	160-170	0.0	
80-90	153.7	3.8%	170-180	0	

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

# Mercmaster™ LED Low Profile Luminaires

## Enclosed and Gasketed Fixtures

**NEC/CEC:**  
 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, AEx ec IIC  
 Zone 21, AEx tb IIIC  
 Class I, Zone 2 Ex ec II  
 Class II, Division 1, Groups E,F,G  
 Zone 20, Group IIIC  
 Class II, Division 2, Groups F,G  
 Class III

**NEC/CEC:**  
 Type 3R, 4, 4X  
 IP66/IP67  
 Simultaneous Exposure  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water) ⌘  
 American Bureau of Shipping (ABS) Certified  
 International Dark Sky (IDA) Approved

**ATEX:**  
 Zone 2 and 21-22  
 II 2 D  
 II 3 GD  
 IP66  
 IK08

**IECEX:**  
 Zone 2 and 21-22  
 Ex ec IIC  
 Ex op is tb IIIC  
 Ex tc IIIC  
 IP66  
 IK08

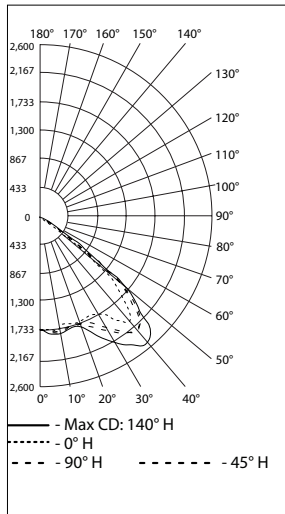
### Photometric Data — DATA SHOWN IS ABSOLUTE

#### Type V, Clear Polycarbonate 5000K CCT

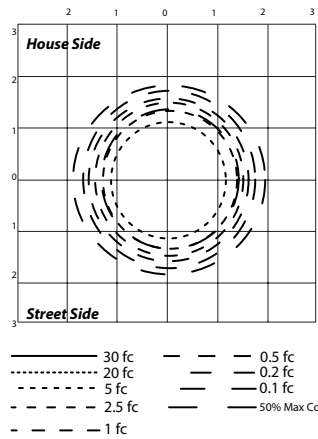
REPORT NUMBER: MLLED4CP5BU

Luminaire Lumens 5,330

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,525.8	28.6%
0-40	2,872.5	53.9%
0-60	5,237.4	98.3%
60-90	82.4	1.5%
70-100	29.4	0.6%
90-120	7.9	0.1%
0-90	5,319.8	99.8%
90-180	10.7	0.2%
0-180	5,330.5	100%

#### LUMENS PER ZONE

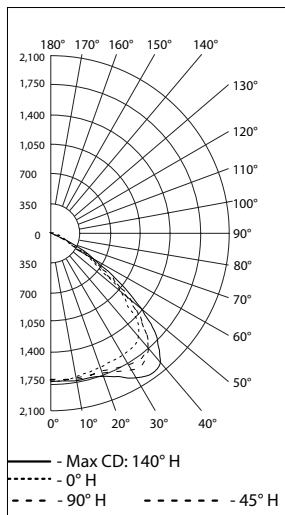
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	166.7	3.1%	90-100	3.1	0.1%
10-20	493.8	9.3%	100-110	3.0	0.1%
20-30	865.2	16.2%	110-120	1.7	0%
30-40	1,346.8	25.3%	120-130	0.9	0%
40-50	1,619.8	30.4%	130-140	0.6	0%
50-60	745.2	14.0%	140-150	0.6	0%
60-70	56.1	1.1%	150-160	0.4	0%
70-80	17.0	0.3%	160-170	0.2	0%
80-90	9.2	0.2%	170-180	0.1	0%

#### Type V, Clear Polycarbonate 5000K CCT

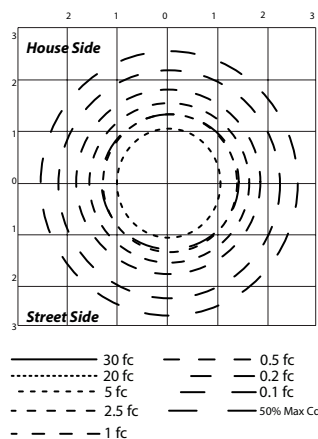
REPORT NUMBER: MLLED4CD5BU

Luminaire Lumens 5,150

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,484.5	28.8%
0-40	2,652.4	51.5%
0-60	4,632.4	89.9%
60-90	475.6	9.2%
70-100	180.0	3.5%
90-120	39.1	0.8%
0-90	5,108.0	99.2%
90-180	42.1	0.8%
0-180	5,150.1	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	164.4	3.2%	90-100	14.5	0.3%
10-20	488.7	9.5%	100-110	17.8	0.3%
20-30	831.4	16.1%	110-120	6.9	0.1%
30-40	1,167.9	22.7%	120-130	2.0	0%
40-50	1,223.7	23.8%	130-140	0.3	0%
50-60	756.3	14.7%	140-150	0.2	0%
60-70	310.0	6.0%	150-160	0.2	0%
70-80	125.8	2.4%	160-170	0.1	0%
80-90	39.8	0.8%	170-180	0.1	0%

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

# Mercmaster™ LED Low Profile Luminaires

## Enclosed and Gasketed Fixtures

**NEC/CEC:**  
 Class I, Division 2, Groups A,B,C,D  
 Class I, Zone 2, AEx ec IIC  
 Zone 21, AEx tb IIIC  
 Class I, Zone 2 Ex ec II  
 Class II, Division 1, Groups E,F,G  
 Zone 20, Group IIIC  
 Class II, Division 2, Groups F,G  
 Class III

**NEC/CEC:**  
 Type 3R, 4, 4X  
 IP66/IP67  
 Simultaneous Exposure  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water) ⌘  
 American Bureau of Shipping (ABS) Certified  
 International Dark Sky (IDA) Approved

**ATEX:**  
 Zone 2 and 21-22  
 II 2 D  
 II 3 GD  
 IP66  
 IK08

**IECEX:**  
 Zone 2 and 21-22  
 Ex ec IIC  
 Ex op is tb IIIC  
 Ex tc IIIC  
 IP66  
 IK08

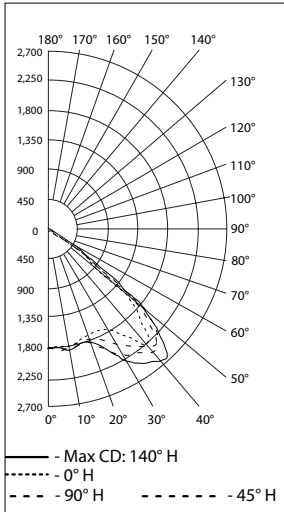
### Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

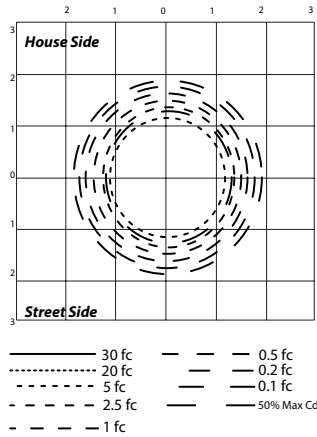
REPORT NUMBER: MLLED4CG5BU

Luminaire Lumens 5,529

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,575.5	28.5%
0-40	2,990.6	54.1%
0-60	5,434.7	98.3%
60-90	81.6	1.5%
70-100	27.7	0.5%
90-120	10.6	0.2%
0-90	5,516.3	99.8%
90-180	13.4	0.2%
0-180	5,529.7	100%

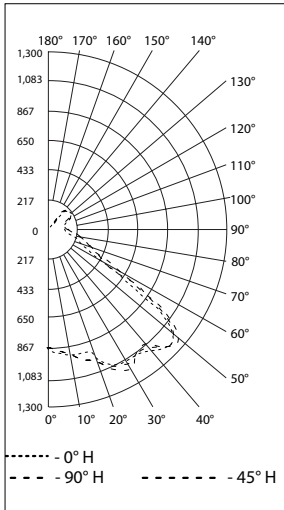
#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	173.1	3.1%	90-100	3.8	0.1%
10-20	506.7	9.2%	100-110	3.3	0.1%
20-30	895.7	16.2%	110-120	3.5	0.1%
30-40	1,415.1	25.6%	120-130	1.3	0%
40-50	1,712.6	31.0%	130-140	0.5	0%
50-60	731.4	13.2%	140-150	0.4	0%
60-70	57.6	1.0%	150-160	0.4	0%
70-80	15.7	0.3%	160-170	0.2	0%
80-90	8.2	0.1%	170-180	0.1	0%

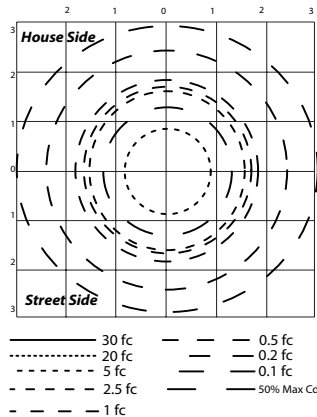
REPORT NUMBER: MLLED4CJ5BU

Luminaire Lumens 4,940

#### POLAR CANDELA DISTRIBUTION



#### ISOFOOT CANDLE PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	872.9	17.7%
0-40	1,570.0	31.8%
0-60	3,310.7	67%
60-90	861.5	17.4%
70-100	606.8	12.3%
90-120	378.1	7.7%
0-90	4,172.1	84.4%
90-180	768.2	15.6%
0-180	4,940.4	100%

#### LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	85.6	1.7%	90-100	134.2	2.7%
10-20	278.2	5.6%	100-110	116.1	2.3%
20-30	509.2	10.3%	110-120	127.8	2.6%
30-40	697.1	14.1%	120-130	169.8	3.4%
40-50	923.1	18.7%	130-140	148.5	3%
50-60	817.6	16.5%	140-150	63.2	1.3%
60-70	388.8	7.9%	150-160	8.4	0.2%
70-80	280.0	5.7%	160-170	0.1	0%
80-90	192.7	3.9%	170-180	0	0%

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.