

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ⌘
 American Bureau of Shipping
 (ABS) Certified

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 26-10 AWG wire.
- Heavy duty, high temperature silicone rubber gaskets.



- 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

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.

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ⌘
 American Bureau of Shipping
 (ABS) Certified

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

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.

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.



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.*

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.



Driver Assembly

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



Terminal Blocks

A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from 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.



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.



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.

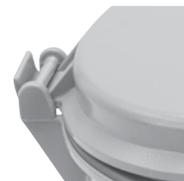
Stainless Steel Latch Assembly

Captive, stainless steel latch assembly bolt and nut closes securely, resists attack of corrosive atmospheres. Swing-away design simplifies servicing.



“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.

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

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

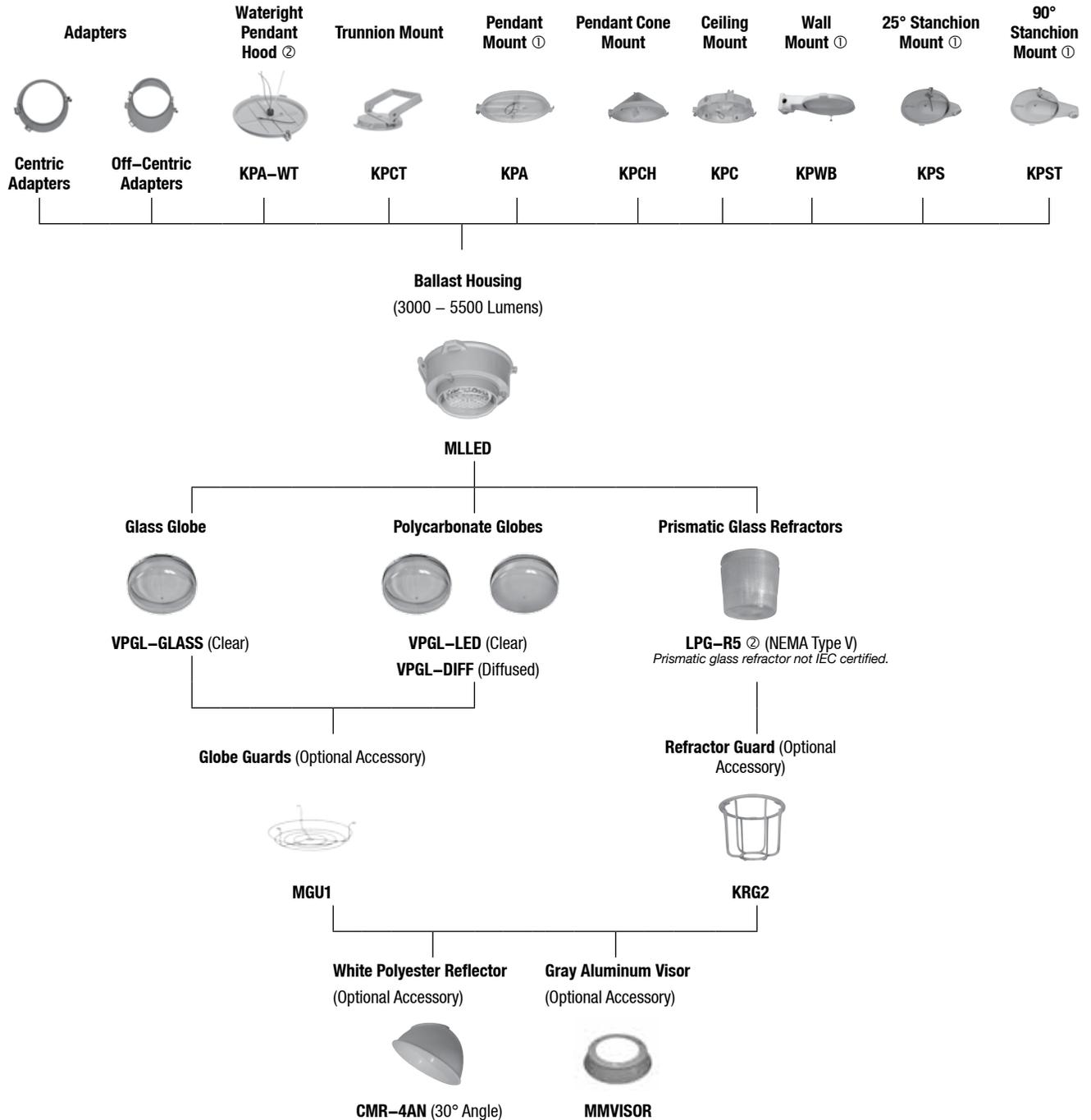
NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 Class II, Division 1, Groups E,F,G
 Zone 20, Group IIC
 Class II, Division 2, Groups F,G
 Class III

NEC/CEC:
 Type 3R, 4, 4X
 IP66/IP67
 Simultaneous Exposure
 Suitable for Use in Wet Locations
 Marine Outside Type (Salt Water)
 For USA ONLY ⚠
 American Bureau of Shipping
 (ABS) Certified

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

Mercmaster™ LED Low Profile Family Tree



① Mounting hood with a 120 V or 208-277 V factory installed photocell is available.
 Ⓜ Certified for cCSAus only.

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

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

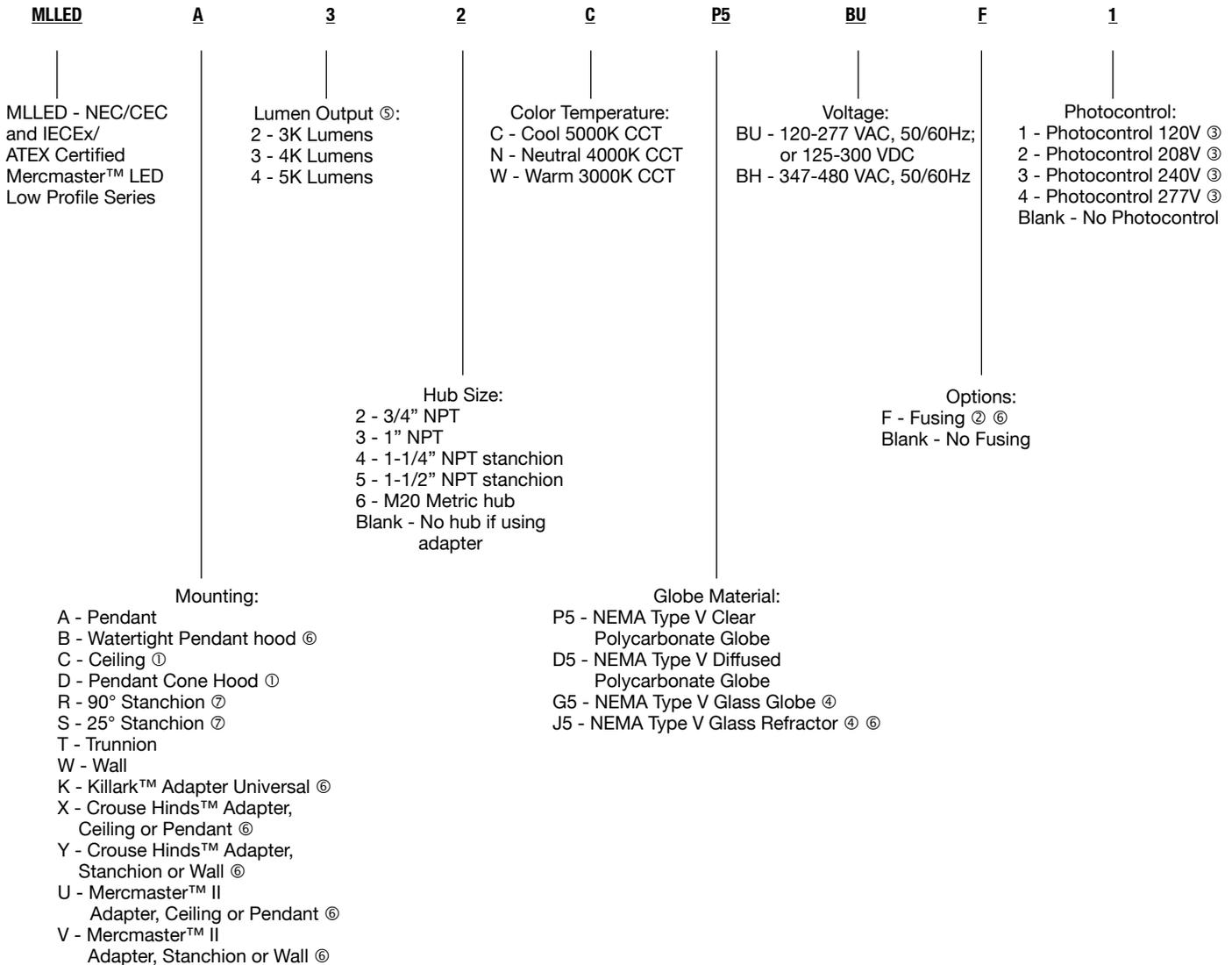
NEC/CEC:
 Type 3R, 4, 4X
 IP66/IP67
 Simultaneous Exposure
 Suitable for Use in Wet Locations
 Marine Outside Type (Salt Water)
 For USA ONLY ⌘
 American Bureau of Shipping
 (ABS) Certified

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

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.

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ※
 American Bureau of Shipping
 (ABS) Certified

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

NEC/CEC Temperature Codes

Lamp		Ambient Temperature °C (°F)	Supply Wire Temperature °C (°F)	NEC/CEC				Gas/Dust
Model	Type			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	Dust 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
	LED	65 (149)	90 (194)	T4A	T4	T6	T6	T4A
MLLED3	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.

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ※
 American Bureau of Shipping
 (ABS) Certified

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

Electrical Specification

Model	Line Current Amps (50/60Hz)	Input Power	Power Factor	THD	Lumens ①			Type V Prismatic Glass Refractor	CRI ②	Color Temp CCT	Equivalent HID Luminaire
					Polycarbonate Clear Globe	Polycarbonate Diffused Globe	Glass Clear Globe				
NEMA Type V											
MLLED2	.28 @120V	28.0	> .94		3200	3100	3300	3000			70-100W
	.13 @277V	28.0									
	.16 @170V	27.2									
	.09 @300V	27.2									
	.10 @347V	29.7									
.06 @480V	29.8	> .93									
MLLED3	.38 @120V	38.0	> .96	< 20%	4200	4100	4400	4000	>70	5000K	100-150W
	.16 @277V	38.0									
	.22 @170V	37.4									
	.13 @300V	39.0									
	.13 @347V	39.6									
.08 @480V	39.7	> .96									
MLLED4	.48 @120V	48.0	> .97		5300	5150	5500	4900			150-175W
	.20 @277V	48.0									
	.29 @170V	49.3									
	.16 @300V	48.0									
	.16 @347V	50.5									
.10 @480V	50.4	> .97									

Model	Line Current Amps (50/60Hz)	Input Power	Power Factor	THD	Lumens ①			Type V Prismatic Glass Refractor	CRI ②	Color Temp CCT	Equivalent HID Luminaire
					Polycarbonate Clear Globe	Polycarbonate Diffused Globe	Glass Clear Globe				
NEMA Type V											
MLLED2	.28 @120V	28.0	> .94		3000	2900	3100	2800			70-100W
	.13 @277V	28.0									
	.16 @170V	27.2									
	.09 @300V	27.2									
	.10 @347V	29.7									
.06 @480V	29.8	> .93									
MLLED3	.38 @120V	38.0	> .96	< 20%	4000	3900	4200	3800	>70	4000K	100-150W
	.16 @277V	38.0									
	.22 @170V	37.4									
	.13 @300V	39.0									
	.13 @347V	39.6									
.08 @480V	39.7	> .96									
MLLED4	.48 @120V	48.0	> .97		5000	4900	5200	4650			150-175W
	.20 @277V	48.0									
	.29 @170V	49.3									
	.16 @300V	48.0									
	.16 @347V	50.5									
.10 @480V	50.4	> .97									

Model	Line Current Amps (50/60Hz)	Input Power	Power Factor	THD	Lumens ①			Type V Prismatic Glass Refractor	CRI ②	Color Temp CCT	Equivalent HID Luminaire
					Polycarbonate Clear Globe	Polycarbonate Diffused Globe	Glass Clear Globe				
NEMA Type V											
MLLED2	.28 @120V	28.0	> .94		3000	2900	3100	2800			70-100W
	.13 @277V	28.0									
	.16 @170V	27.2									
	.09 @300V	27.2									
	.10 @347V	29.7									
.06 @480V	29.8	> .93									
MLLED3	.38 @120V	38.0	> .96	< 20%	3900	3800	4100	3700	>70	3000K	100-150W
	.16 @277V	38.0									
	.22 @170V	37.4									
	.13 @300V	39.0									
	.13 @347V	39.6									
.08 @480V	39.7	> .96									
MLLED4	.48 @120V	48.0	> .97		4900	4800	5100	4600			150-175W
	.20 @277V	48.0									
	.29 @170V	49.3									
	.16 @300V	48.0									
	.16 @347V	50.5									
.10 @480V	50.4	> .97									

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

② 70 minimum.

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ⌘
 American Bureau of Shipping
 (ABS) Certified

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

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

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ⚠
 American Bureau of Shipping
 (ABS) Certified

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
--	-------------	----------------

Globes and Gaskets



Clear Globe (polycarbonate)

VPGL-LED



Diffused Globe (polycarbonate)

VPGL-DIFF



Glass Globe

VPGL-GLASS

Light Distribution

Catalog Number

Closed Prismatic Glass Refractors – All Heat-Resistant



Glass Refractor ①

NEMA Type V

LPG-R5

Accessories

	Description	Catalog Number
--	-------------	----------------

White Polyester Reflectors



30° Angle

30° Angle

CMR-4AN

Guards



Glass Globe Guard



Refractor Guard

Glass Globe Guard

MGU1

Refractor Guard

KRG2

Safety Cable



Stainless steel

LEDSC

Visor



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
		VMX2B, VMX3B, VMX6B, VMX7B, VMX9B - Ceiling VMA2B, VMA3B - Pendant	
	Killark™	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, Group IIC
 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)
 For USA ONLY ⚠
 American Bureau of Shipping
 (ABS) Certified

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

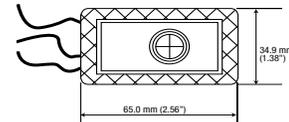
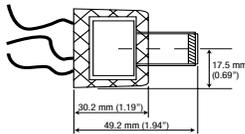
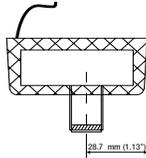
PCD2 Series Factory Sealed Hazardous Location Photocontrol ①

	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.: MLEDA32XP5BU1. ②				
	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	FSKA-PC120D2
	208 V, 50/60 Hz	1000	4.8 Amp	
	240 V, 50/60 Hz	1000	4.2 Amp	FSKA-PC247D2
	277 V, 50/60 Hz	1000	3.6 Amp	



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

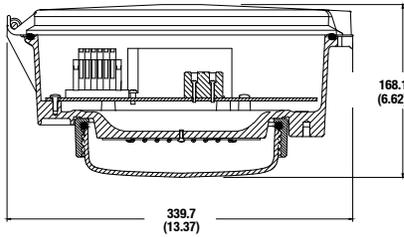
NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 Class II, Division 1, Groups E,F,G
 Zone 20, Group IIIC
 Class II, Division 2, Groups F,G
 Class III

NEC/CEC:
 Type 3R, 4, 4X
 IP66/IP67
 Simultaneous Exposure
 Suitable for Use in Wet Locations
 Marine Outside Type (Salt Water)
 For USA ONLY ⚠
 American Bureau of Shipping
 (ABS) Certified

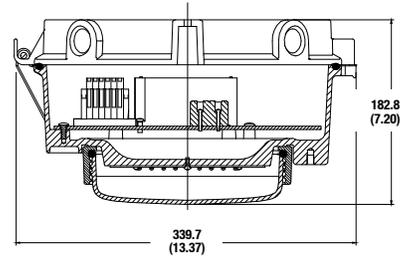
ATEX:
 Zone 2 and 21-22
 II 2 D
 II 3 GD
 IP66
 IK08

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

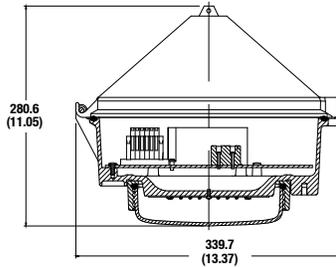
Dimensions in Millimeters (Inches)



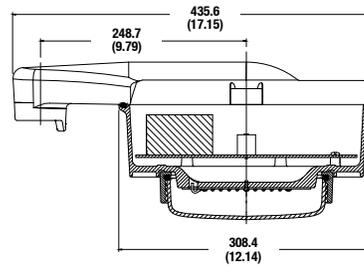
Pendant Mount



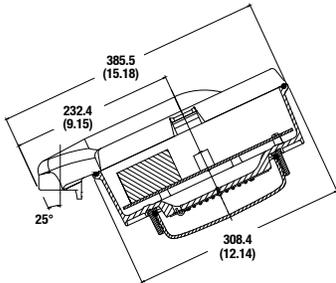
Ceiling Mount



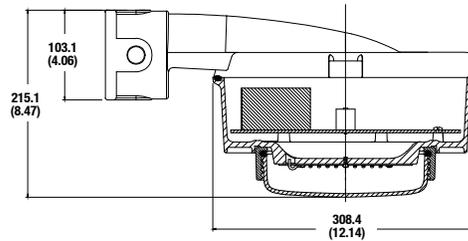
Pendant Cone Mount



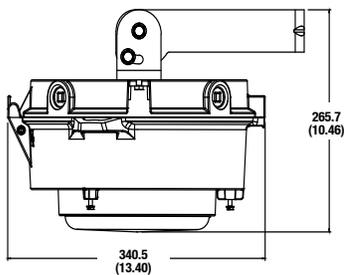
90° Stanchion Mount



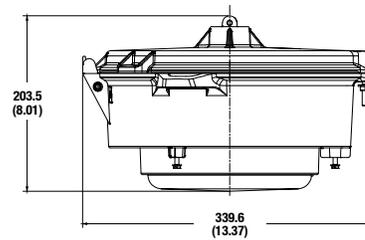
25° Stanchion Mount



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, Group IIC
 Class II, Division 1, Groups E,F,G
 Zone 20, Group IIIC
 Class II, Division 2, Groups F,G
 Class III

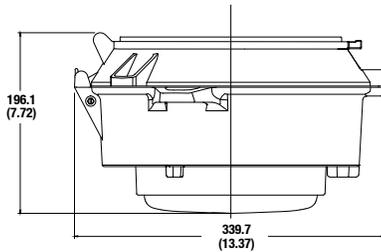
NEC/CEC:
 Type 3R, 4, 4X
 IP66/IP67
 Simultaneous Exposure
 Suitable for Use in Wet Locations
 Marine Outside Type (Salt Water)
 For USA ONLY ⚠
 American Bureau of Shipping
 (ABS) Certified

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

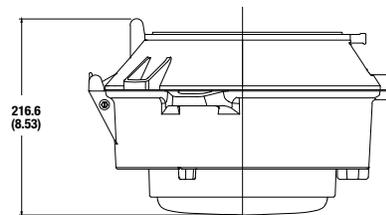
IECEx:
 Zone 2 and 21-22
 Ex ec IIC
 Ex op is tb IIIC
 Ex tc IIIC
 IP66
 IK08

Dimensions in Millimeters (Inches)

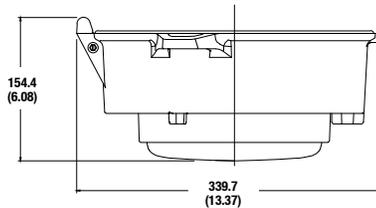
With Polycarbonate Globe



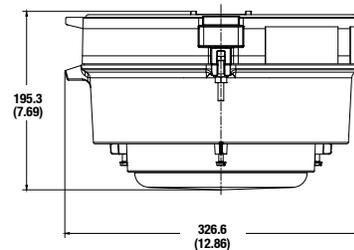
CH-Adapter-Centric



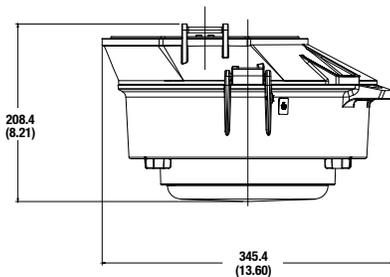
MM-II Adapter-Centric



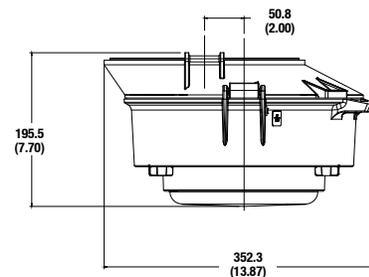
Driver Housing



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

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ⌘
 American Bureau of Shipping
 (ABS) Certified

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

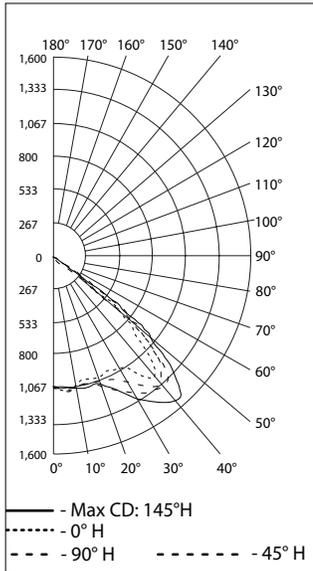
Photometric Data – DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

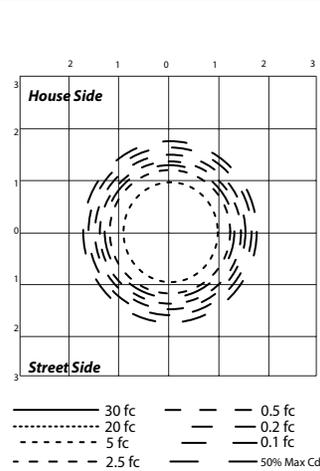
REPORT NUMBER: MLLED2CP5BU

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

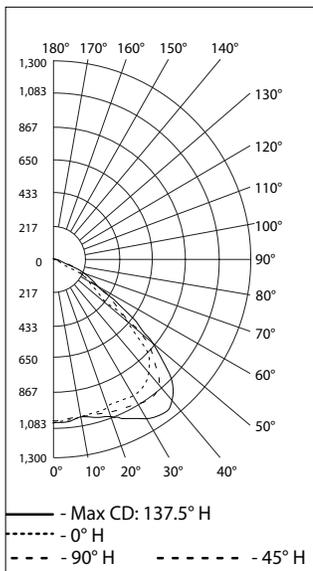
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	102.0	3.2%	90-100	1.9	0.1%
10-20	302.3	9.5%	100-110	1.9	0.1%
20-30	528.5	16.5%	110-120	1.0	0%
30-40	817.9	25.6%	120-130	0.8	0%
40-50	969.4	30.3%	130-140	0.0	0%
50-60	424.2	13.3%	140-150	0	0%
60-70	32.3	1.0%	150-160	0.0	0%
70-80	10.3	0.3%	160-170	0.0	0%
80-90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

Type V, Clear Polycarbonate 5000K CCT

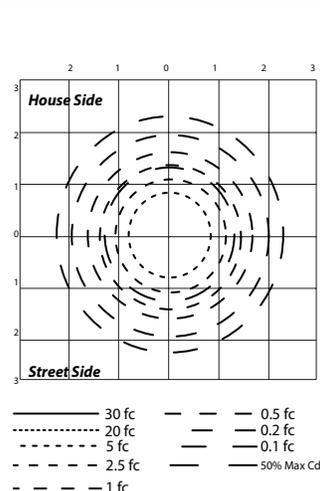
REPORT NUMBER: MLLED2GD5BU

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%

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ⌘
 American Bureau of Shipping
 (ABS) Certified

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

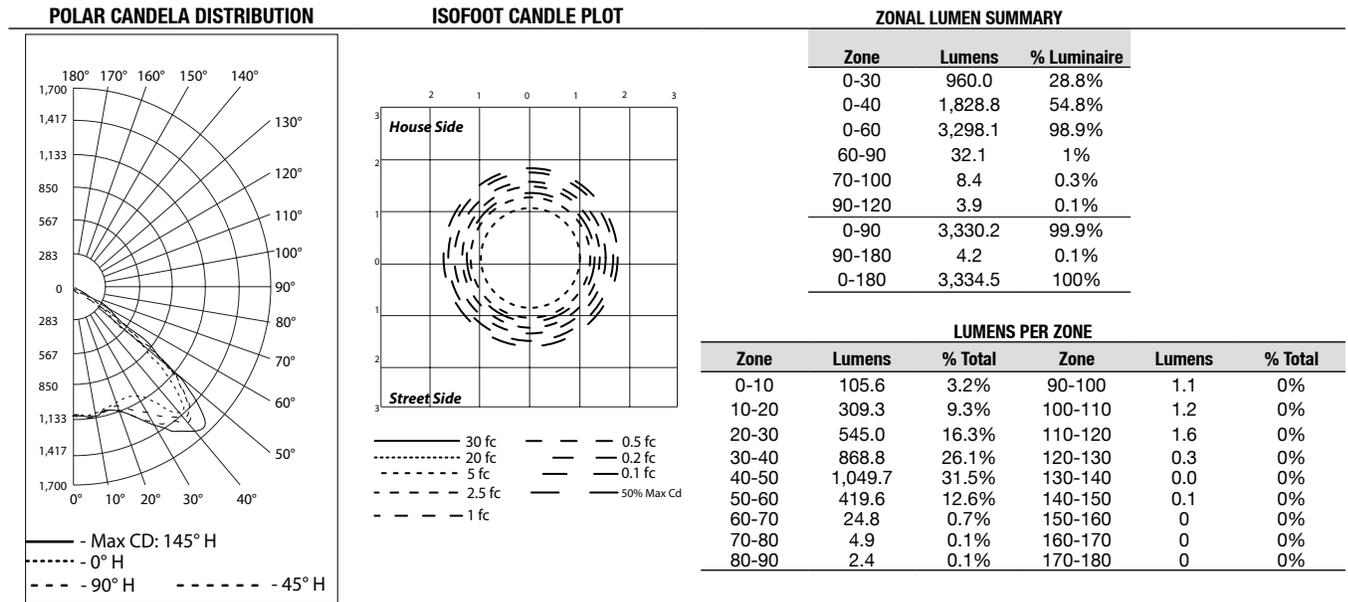
IECEX:
 Zone 2 and 21-22
 Ex ec IIC
 Ex op is tb IIIC
 Ex tc IIIC
 IP66
 IK08

Photometric Data – DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: **MLLED2CG5BU**

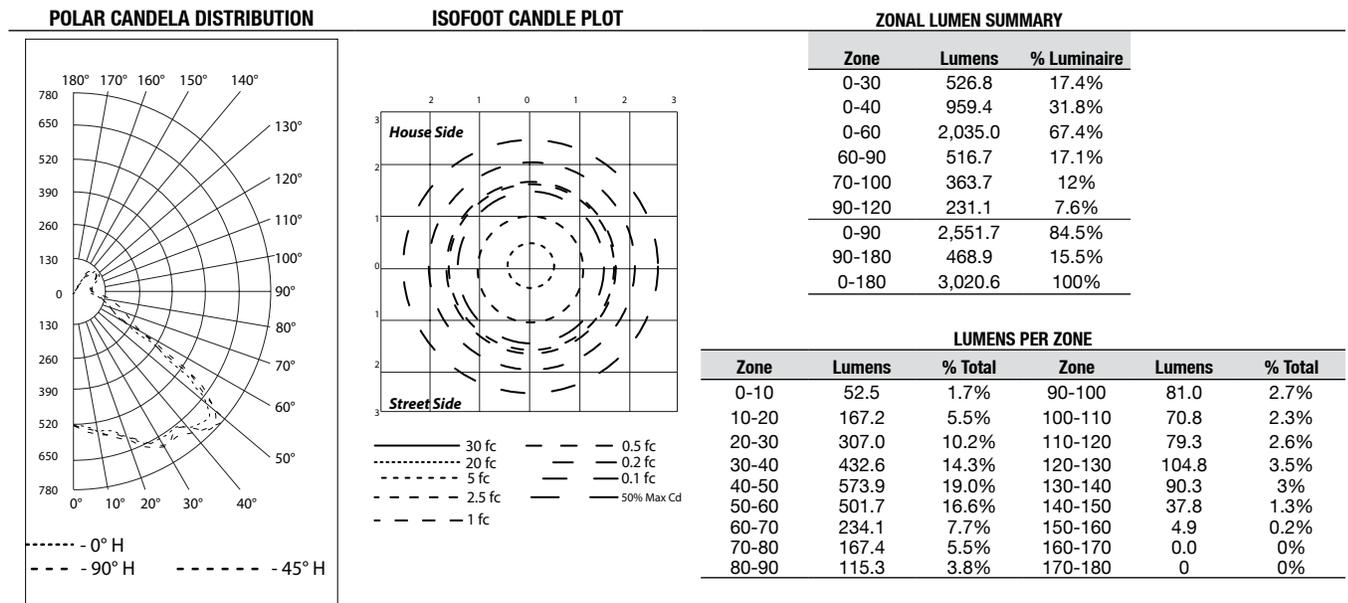
Luminaire Lumens 3,334



Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: **MLLED2CJ5BU**

Luminaire Lumens 3,020



Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ⌘
 American Bureau of Shipping
 (ABS) Certified

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

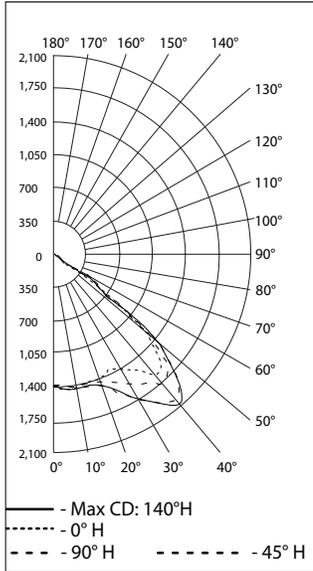
Photometric Data – DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

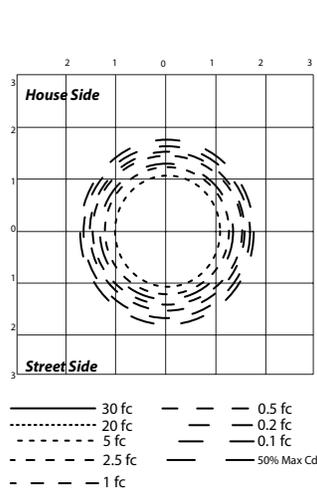
REPORT NUMBER: MLLED3CP5BU

Luminaire Lumens 4,234

POLAR CANDELA DISTRIBUTION



ISOFOOT CANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,229.4	29%
0-40	2,320.7	54.8%
0-60	4,178.7	98.7%
60-90	49.5	1.2%
70-100	18.7	0.4%
90-120	5.2	0.1%
0-90	4,228.2	99.9%
90-180	6.0	0.1%
0-180	4,234.3	100%

LUMENS PER ZONE

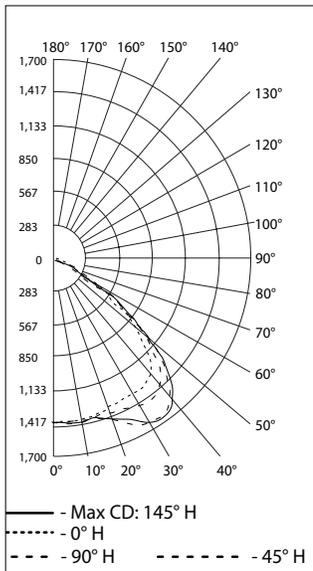
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	134.1	3.2%	90-100	2.3	0.1%
10-20	396.8	9.4%	100-110	1.9	0%
20-30	698.5	16.5%	110-120	1.0	0%
30-40	1,091.3	25.8%	120-130	0.8	0%
40-50	1,302.8	30.8%	130-140	0.0	0%
50-60	555.3	13.1%	140-150	0.0	0%
60-70	33.0	0.8%	150-160	0.0	0%
70-80	10.5	0.2%	160-170	0.0	0%
80-90	5.9	0.1%	170-180	0.0	0%

Type V, Clear Polycarbonate 5000K CCT

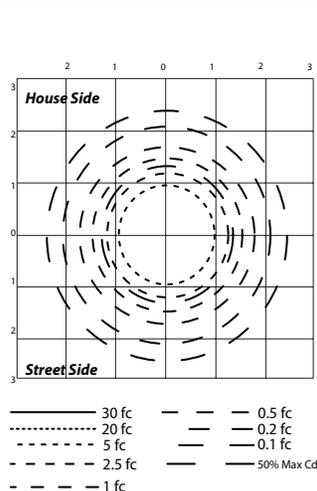
REPORT NUMBER: MLLED3CD5BU

Luminaire Lumens 4,151

POLAR CANDELA DISTRIBUTION



ISOFOOT CANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1,206.1	29.1%
0-40	2,153.6	51.9%
0-60	3,742.1	90.2%
60-90	375.5	9%
70-100	142.2	3.4%
90-120	31.3	0.8%
0-90	4,117.6	99.2%
90-180	33.1	0.8%
0-180	4,150.7	100%

LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	133.5	3.2%	90-100	11.7	0.3%
10-20	397.0	9.6%	100-110	14.0	0.3%
20-30	675.6	16.3%	110-120	5.5	0.1%
30-40	947.5	22.8%	120-130	1.6	0%
40-50	986.1	23.8%	130-140	0.1	0%
50-60	602.4	14.5%	140-150	0.1	0%
60-70	245.0	5.9%	150-160	0.0	0%
70-80	99.5	2.4%	160-170	0.0	0%
80-90	30.9	0.7%	170-180	0.0	0%

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ⌘
 American Bureau of Shipping
 (ABS) Certified

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

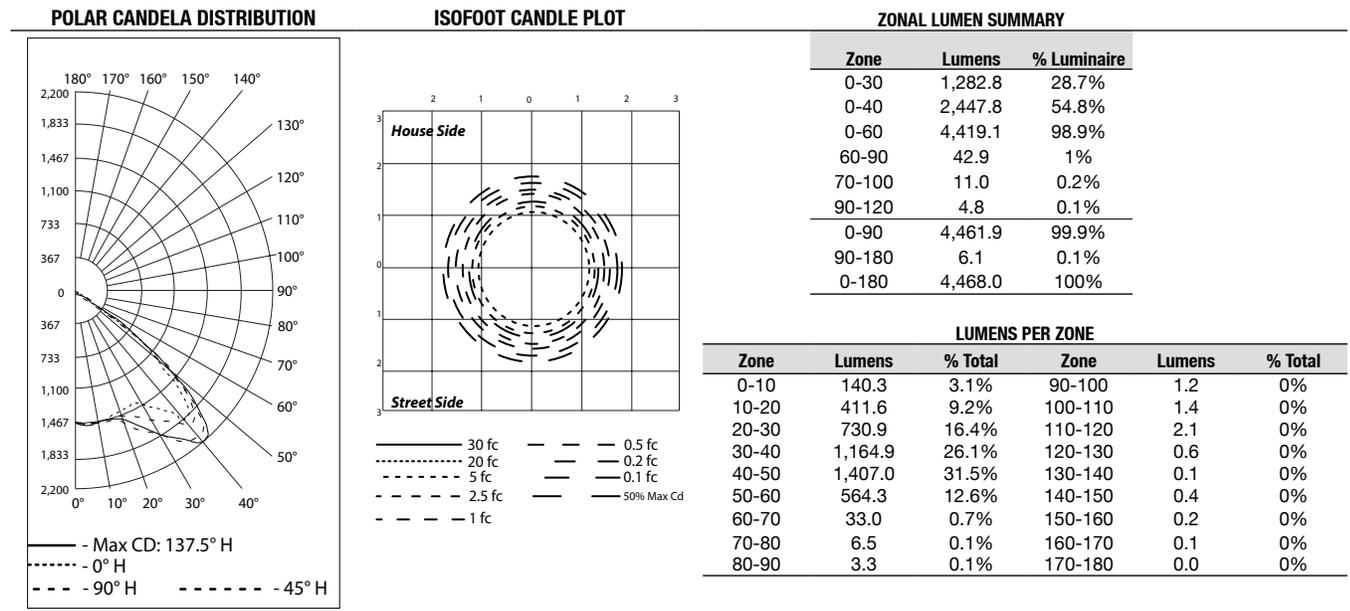
IECEX:
 Zone 2 and 21-22
 Ex ec IIC
 Ex op is tb IIIC
 Ex tc IIIC
 IP66
 IK08

Photometric Data – DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: **MLLED3CG5BU**

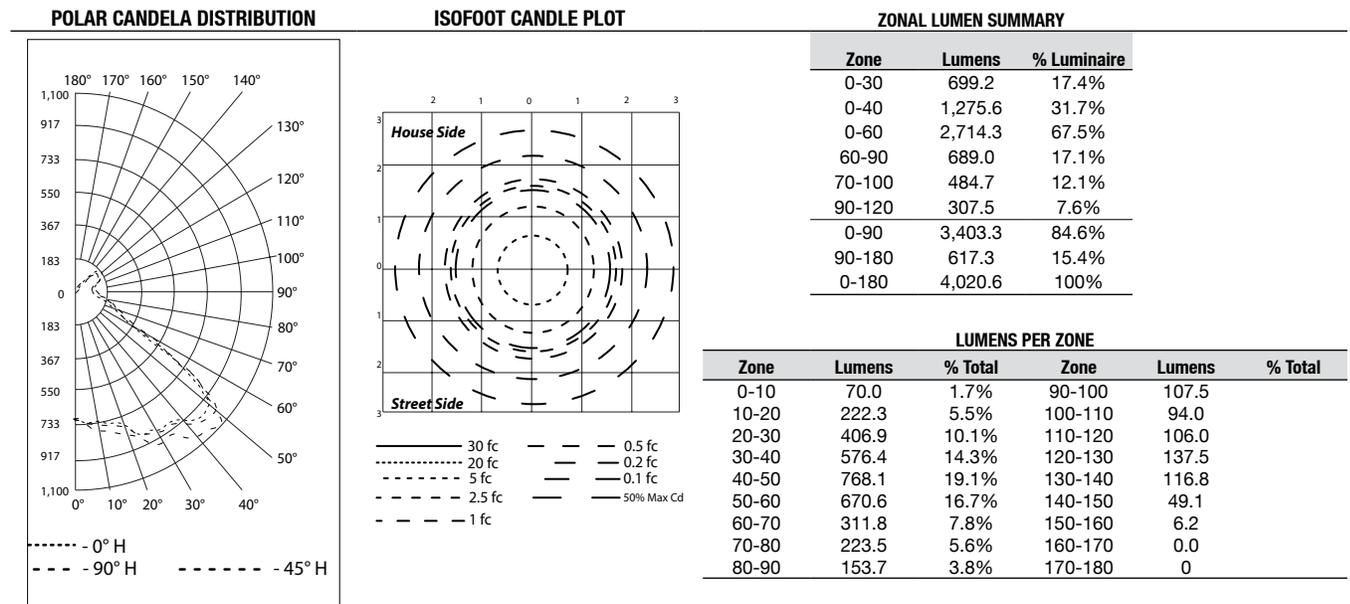
Luminaire Lumens 4,468



Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: **MLLED3CJ5BU**

Luminaire Lumens 4,020



Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ⌘
 American Bureau of Shipping
 (ABS) Certified

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

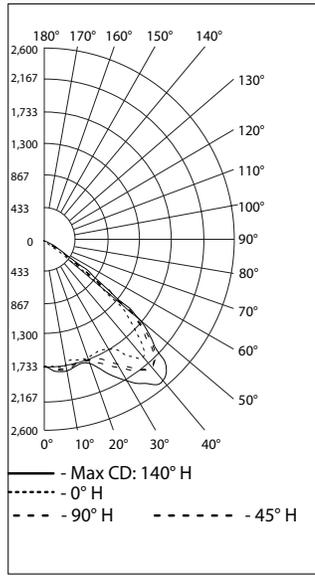
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

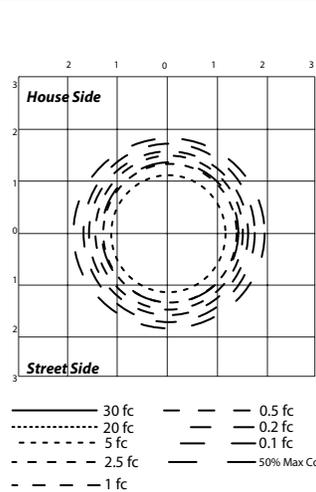
REPORT NUMBER: MLLED4CP5BU

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

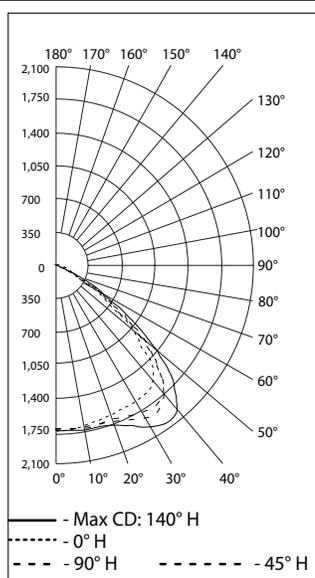
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	166.7	3.1%	90-100	3.1	0.1%
10-20	493.8	9.3%	100-110	3.0	0.1%
20-30	865.2	16.2%	110-120	1.7	0%
30-40	1,346.8	25.3%	120-130	0.9	0%
40-50	1,619.8	30.4%	130-140	0.6	0%
50-60	745.2	14.0%	140-150	0.6	0%
60-70	56.1	1.1%	150-160	0.4	0%
70-80	17.0	0.3%	160-170	0.2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

Type V, Clear Polycarbonate 5000K CCT

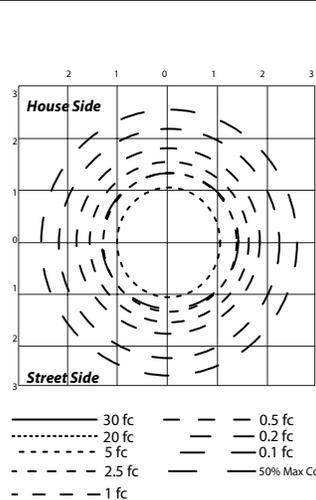
REPORT NUMBER: MLLED4CD5BU

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%

Mercmaster™ LED Low Profile Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 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)
 For USA ONLY ⌘
 American Bureau of Shipping
 (ABS) Certified

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

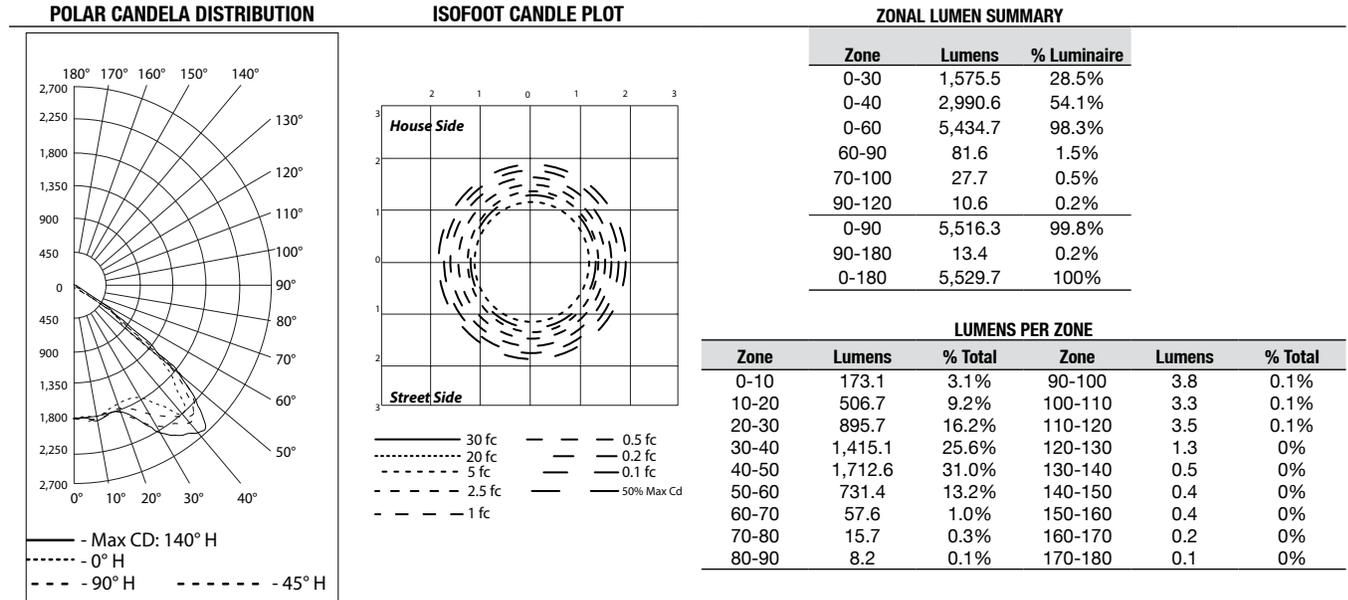
IECEX:
 Zone 2 and 21-22
 Ex ec IIC
 Ex op is tb IIIC
 Ex tc IIIC
 IP66
 IK08

Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: MLLED4CG5BU

Luminaire Lumens 5,529



Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: MLLED4CJ5BU

Luminaire Lumens 4,940

