

Industrial Mercmaster™ LED Low Profile Luminaires

For Ordinary Locations

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66/IP67

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water)
For USA ONLY ⚡
International Dark Sky (IDA) Approved

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - A wide range of harsh industrial environments
 - Marine and wet locations
 - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
 - Areas where dust, water, dirt and rough usage are a problem
- Typical industries include:
 - Pulp and paper mills
 - Processing plants
 - Storage facilities
 - Manufacturing plants
 - Foundries
 - Waste treatment
 - Warehouses
 - Receiving areas
- Typical applications include:
 - Walkways/catwalks
 - Stairwells
 - Tunnels
 - Pipe racks
 - Processing areas

Features

- Compact light weight low profile design is suited for low mounting heights.
- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white.
- Six standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III, Mercmaster™ Premium LED and Mercmaster™+ Generation 3.
- Customize to the application requirements with four different field replaceable globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
- 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.

Nominal Lumens ①	HID Equivalent	Model Number
3300	70-100W	IMLLED2CG5BU
4400	100-150W	IMLLED3CG5BU
5500	150-175W	IMLLED4CG5BU

- Three light output levels for retrofit of HID fixtures up to 175 W.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- 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.

① Nominal Lumen value for 5000K CCT, clear glass globe. Detailed lumen information is provided in tables.

② Factory installed. (For retrofit applications, fusing must be removed from the mounting hood and ordered in the luminaire).

③ Available for 120-277 Vac models only. Mounting hoods with photocontrols are not rated IP66, Type 4X or Marine Outside Type (Salt Water), but are suitable for wet locations.

✦ Killark is a registered trademark of Hubbell Incorporated

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

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



- Standard NPT threads.
- Lamp life 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.

Options

- Glass globe and glass refractor guard available, see *Globes and Gaskets* under *Replacement Parts*.
- All Mercmaster™ luminaires have provision for fusing; add suffix -F at the end of the catalog number. ②
- 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. ③

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 1598, Third Edition; UL 8750, Second Edition;
- CSA Standard: No. 250.0-.08; C22.2 No. 250.13-14
- ANSI/IEC Standard: 60529
- cCSAus Listed: 164460

Related Products

- Mercmaster LED Mounting Adapters
- Mercmaster Generation 3 Luminaires
- Industrial Mercmaster LED Low Profile Luminaires

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

APPLETON™

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

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Illustrated Features

Heatsink

Reliable heat transfer via the cast, epoxy powder coat aluminum body. Provides maximum heat dissipation from the LED assembly to the outside environment.

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.

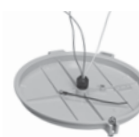


Cooler Operating Cone Hood

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 utilizing an IP 68 cord grip with three wire holes 4mm in diameter.



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.

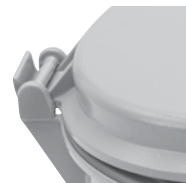
Stainless Steel Latch Assembly

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.



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.

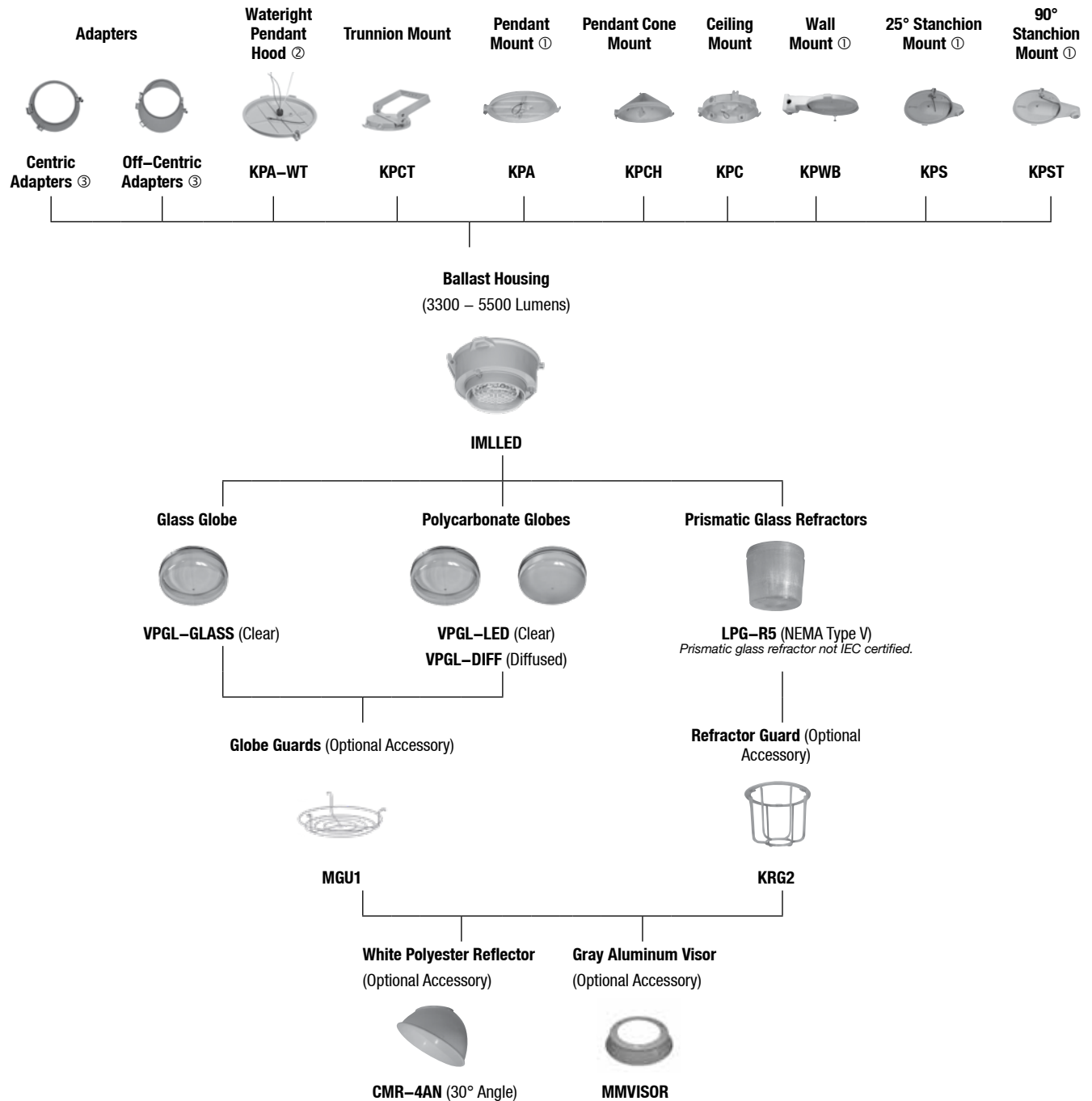
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Mercmaster™ LED Low Profile Family Tree



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

Catalog Numbering Guide

IMLED	A	3	2	C	P5	BU	F	1
Series: IMLED - Industrial Mercmaster LED Low Profile Series		Lumen Output ⑤: 2 - 3K Lumens 3 - 4K Lumens 4 - 5K Lumens		Color Temperature: C - Cool 5000K CCT N - Neutral 4000K CCT W - Warm 3000K CCT		Voltage: BU - 120-277 Vac, 50/60Hz; or 170-300Vdc BH - 347-480 Vac, 50/60Hz		Photocontrol: 1 - Photocontrol 120V ③ 2 - Photocontrol 208V ③ 3 - Photocontrol 240V ③ 4 - Photocontrol 277V ③ Blank - No Photocontrol
			Hub Size: 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - M20 Metric hub Blank - No hub if using adapter or not ordering mounting hood				Options: F - Fusing ② Blank - No Fusing	
	Mounting: A - Pendant B - Watertight Pendant hood ⑥ C - Ceiling ① D - Pendant Cone Hood ① R - 90° Stanchion S - 25° Stanchion T - Trunnion W - Wall K - Killark™ Adapter Universal X - Crouse Hinds™ Adapter, Ceiling or Pendant ⑥ Y - Crouse Hinds™ Adapter, Stanchion or Wall ⑥ U - Mercmaster II Adapter, Ceiling or Pendant ⑥ V - Mercmaster II Adapter, Stanchion or Wall ⑥ Blank - No mounting hood			Globe Material: P5 - NEMA Type V Clear Polycarbonate Globe D5 - NEMA Type V Diffused Polycarbonate Globe G5 - NEMA Type V Glass Globe ④ J5 - NEMA Type V Glass Refractor ④				

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).

③ Luminaires with photocontrol are not rated IP66, Marine Outside Type (Salt Water), 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 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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Lumen Values Table ① ②

Model	Lumens ①				CRI ②	Color Temp CCT	Equivalent HID Luminaire
	Polycarbonate Clear Globe	Polycarbonate Diffused Globe	Glass Clear Globe	Type V Prismatic Glass Refractor			
NEMA Type V							
IMLLED2	3200	3100	3300	3000	>70	5000K	70-100W
IMLLED3	4200	4100	4400	4000			100-150W
IMLLED4	5300	5150	5500	4900			150-175W
NEMA Type V							
IMLLED2	3000	2900	3100	2800	>70	4000K	70-100W
IMLLED3	4000	3900	4200	3800			100-150W
IMLLED4	5000	4900	5200	4650			150-175W
NEMA Type V							
IMLLED2	3000	2900	3100	2800	>70	3000K	70-100W
IMLLED3	3900	3800	4100	3700			100-150W
IMLLED4	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)
IMLLED2	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		
IMLLED3	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		
IMLLED4	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
Fixture Housing - For Ordinary Locations							
3K	28	70-100W HPS	Type V	IMLLED2XP5	IMLLED2XD5	IMLLED2XG5	IMLLED2XJ5
4K	38	100-150W HPS	Type V	IMLLED3XP5	IMLLED3XD5	IMLLED3XG5	IMLLED3XJ5
5K	48	150-175W HPS	Type V	IMLLED4XP5	IMLLED4XD5	IMLLED4XG5	IMLLED4XJ5

Mounting Hoods

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

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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

	NEMA Type V	LPG-R5
Glass Refractor ①		

Accessories

	Description	Catalog Number
White Polyester Reflectors		
	30° Angle	CMR-4AN
Guards		
	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
	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.

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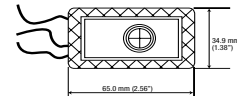
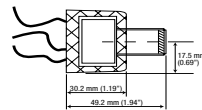
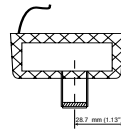
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PCD2 Series Factory Sealed Hazardous Location Photocontrol ①

	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.: IMLEDA32XP5BU1. 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	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		



Photocontrol Top Hats

Mounting Hood	Hub Size	Photocontrol Option	Catalog Number
Pendant	3/4" NPT	120V	KPA75PC12
Pendant	3/4" NPT	208V, 240V, 277V	KPA75PC24
Pendant	1" NPT	120V	KPA100PC12
Pendant	1" NPT	208V, 240V, 277V	KPA100PC24
Wall	3/4" NPT	120V	KPWB75PC12
Wall	3/4" NPT	208V, 240V, 277V	KPWB75PC24
Wall	1" NPT	120V	KPWB100PC12
Wall	1" NPT	208V, 240V, 277V	KPWB100PC24
25 Stanchion	1-1/4" NPT stanchion	120V	KPS125PC12
25 Stanchion	1-1/4" NPT stanchion	208V, 240V, 277V	KPS125PC24
25 Stanchion	1-1/2" NPT stanchion	120V	KPS150PC12
25 Stanchion	1-1/2" NPT stanchion	208V, 240V, 277V	KPS150PC24
90 Stanchion	1-1/4" NPT stanchion	120V	KPST125PC12
90 Stanchion	1-1/4" NPT stanchion	208V, 240V, 277V	KPST125PC24
90 Stanchion	1-1/2" NPT stanchion	120V	KPST150PC12
90 Stanchion	1-1/2" NPT stanchion	208V, 240V, 277V	KPST150PC24

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, Type 4X, or marine outside type (salt water). Available for 120-277 Vac versions only.

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

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

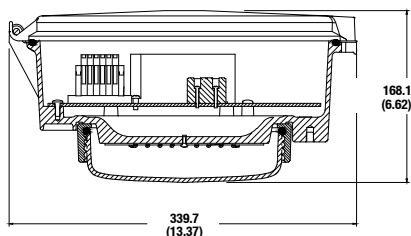
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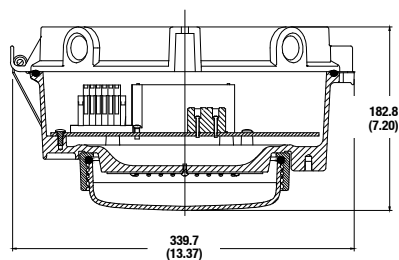
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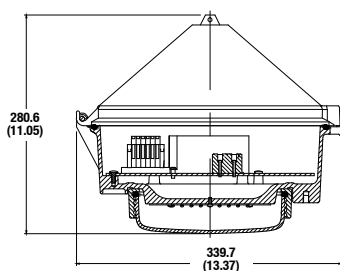
Dimensions in Millimeters (Inches)



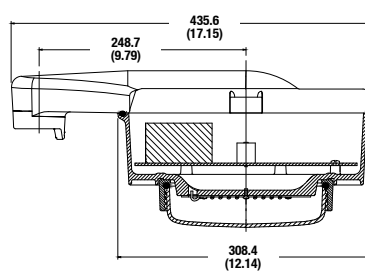
Pendant Mount



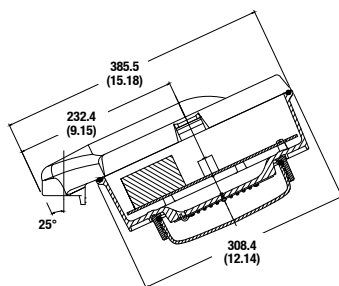
Ceiling Mount



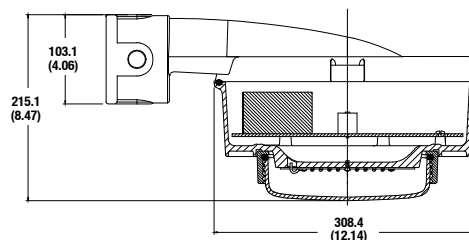
Pendant Cone Mount



90° Stanchion Mount



25° Stanchion Mount



Wall Mount

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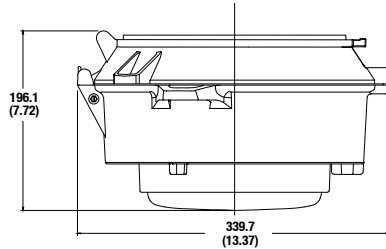
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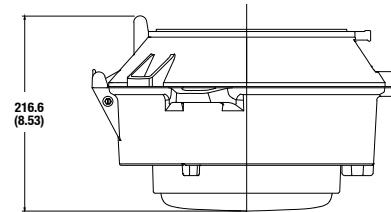
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International Dark Sky (IDA) Approved

Dimensions in Millimeters (Inches)

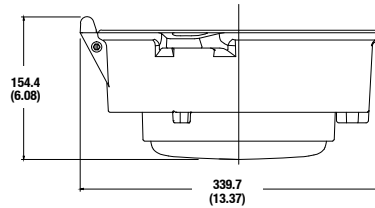
With Polycarbonate Globe



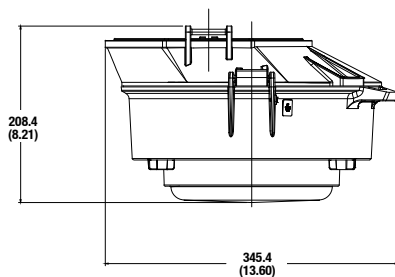
CH-Adapter-Centric



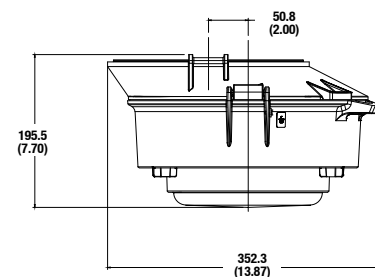
MM-II Adapter-Centric



Driver Housing



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)

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

Industrial Mercmaster™ LED Low Profile Luminaires

For Ordinary Locations

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66/IP67

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water)
For USA ONLY
International Dark Sky (IDA) Approved

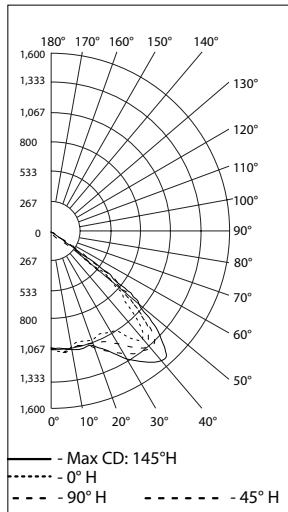
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

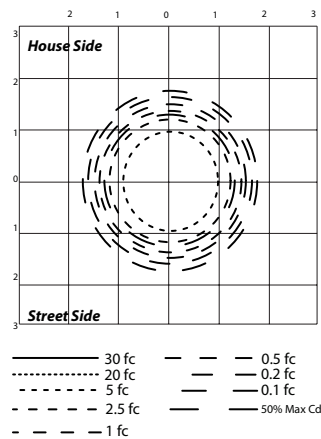
REPORT NUMBER: IMLLED2CP5BU

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%

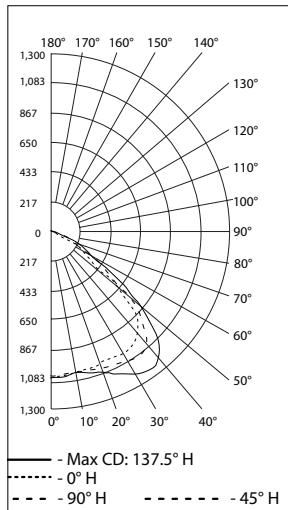
LUMENS PER ZONE

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%

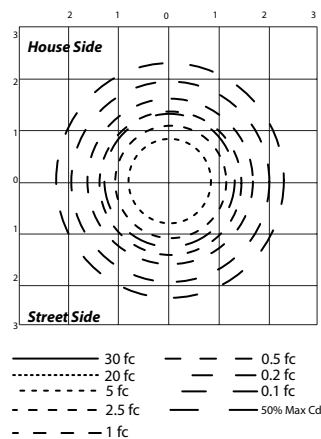
REPORT NUMBER: IMLLED2CD5BU

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.

Industrial Mercmaster™ LED Low Profile Luminaires

For Ordinary Locations

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66/IP67

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water)
For USA ONLY [Ⓢ]
International Dark Sky (IDA) Approved

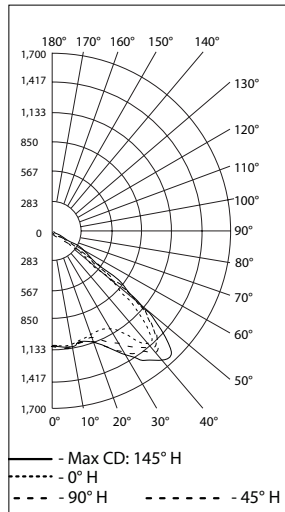
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

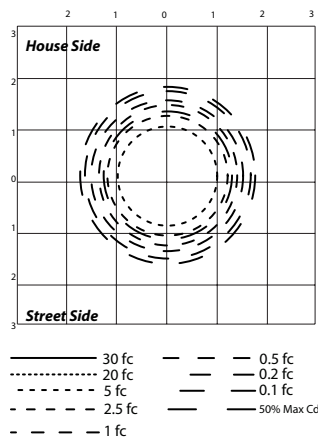
REPORT NUMBER: IMLLED2CG5BU

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%

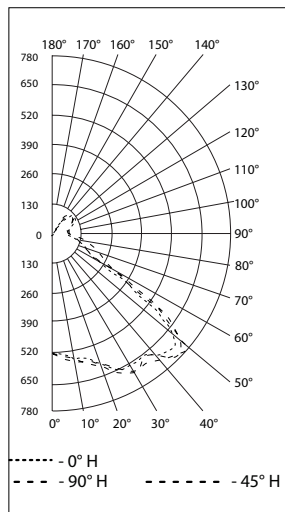
LUMENS PER ZONE

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%

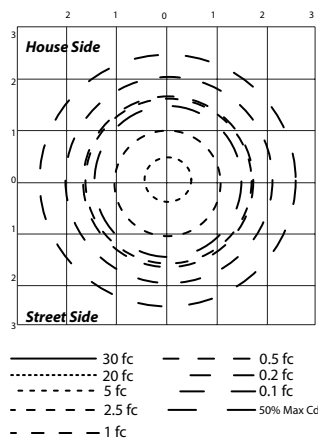
REPORT NUMBER: IMLLED2CJ5BU

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.

Industrial Mercmaster™ LED Low Profile Luminaires

For Ordinary Locations

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66/IP67

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water)
For USA ONLY
International Dark Sky (IDA) Approved

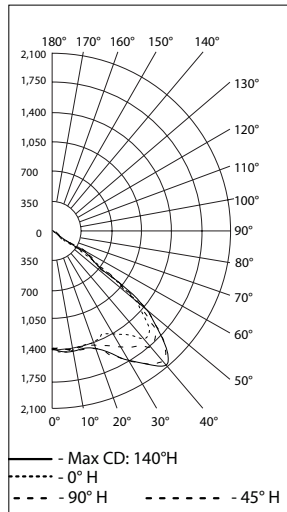
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

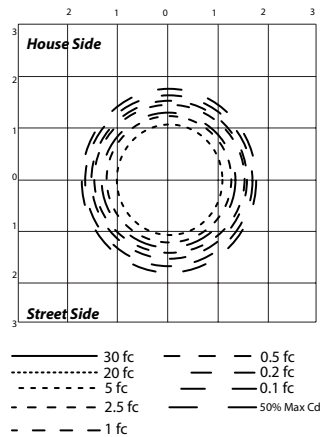
REPORT NUMBER: IMLLED3CP5BU

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

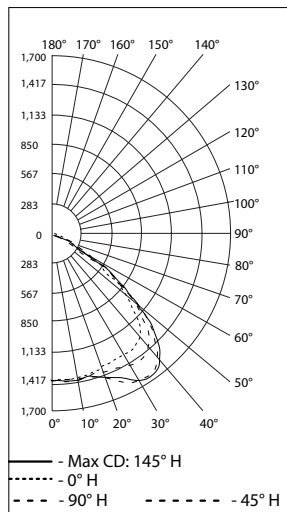
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	134.1	3.2%	90-100	2.3	0.1%
10-20	396.8	9.4%	100-110	1.9	0%
20-30	698.5	16.5%	110-120	1.0	0%
30-40	1,091.3	25.8%	120-130	0.8	0%
40-50	1,302.8	30.8%	130-140	0.0	0%
50-60	555.3	13.1%	140-150	0.0	0%
60-70	33.0	0.8%	150-160	0.0	0%
70-80	10.5	0.2%	160-170	0.0	0%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

Type V, Clear Polycarbonate 5000K CCT

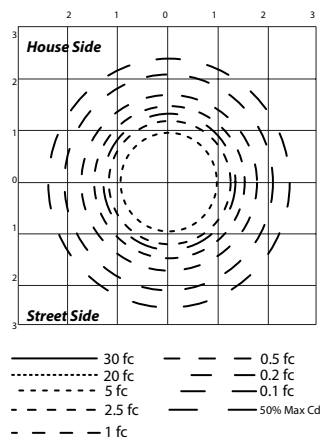
REPORT NUMBER: IMLLED3CD5BU

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%

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

Visit our website at www.emerson.com or contact us at (800) 621-1506.

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Industrial Mercmaster™ LED Low Profile Luminaires

For Ordinary Locations

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66/IP67

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water)
For USA ONLY ⚠
International Dark Sky (IDA) Approved

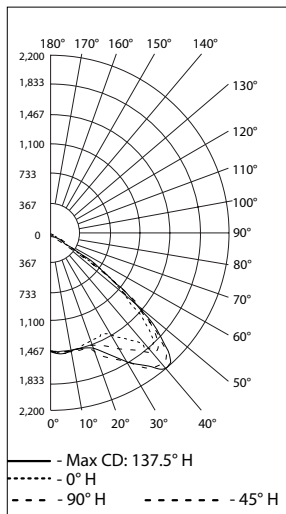
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

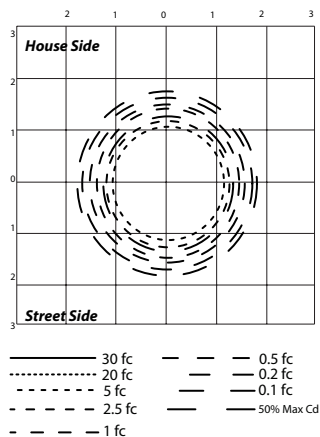
REPORT NUMBER: IMLLED3CG5BU

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

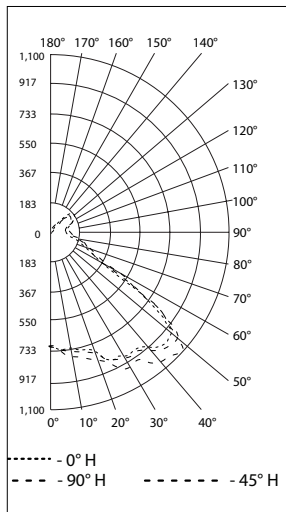
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	140.3	3.1%	90-100	1.2	0%
10-20	411.6	9.2%	100-110	1.4	0%
20-30	730.9	16.4%	110-120	2.1	0%
30-40	1,164.9	26.1%	120-130	0.6	0%
40-50	1,407.0	31.5%	130-140	0.1	0%
50-60	564.3	12.6%	140-150	0.4	0%
60-70	33.0	0.7%	150-160	0.2	0%
70-80	6.5	0.1%	160-170	0.1	0%
80-90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

Type V, Clear Polycarbonate 5000K CCT

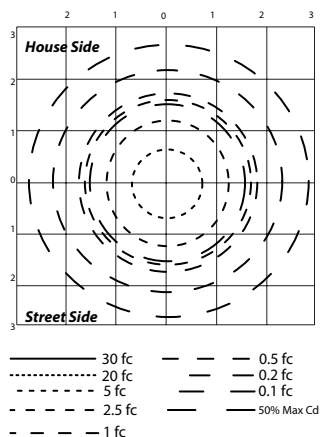
REPORT NUMBER: IMLLED3CJ5BU

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.

Industrial Mercmaster™ LED Low Profile Luminaires

For Ordinary Locations

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66/IP67

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water)
For USA ONLY ⚠
International Dark Sky (IDA) Approved

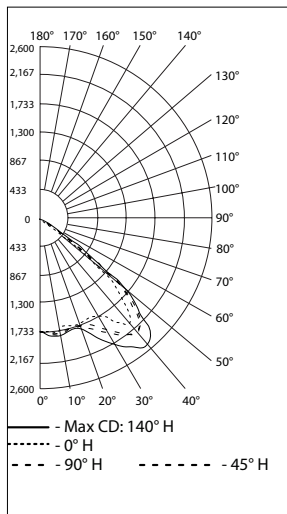
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Type V, Clear Polycarbonate 5000K CCT

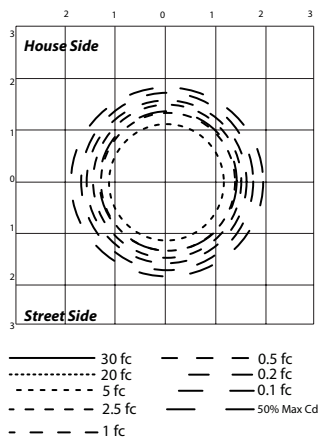
REPORT NUMBER: IMLLED4CP5BU

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%

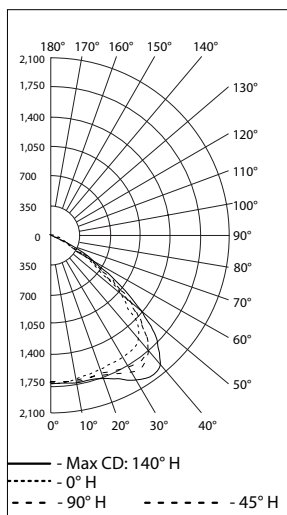
LUMENS PER ZONE

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%

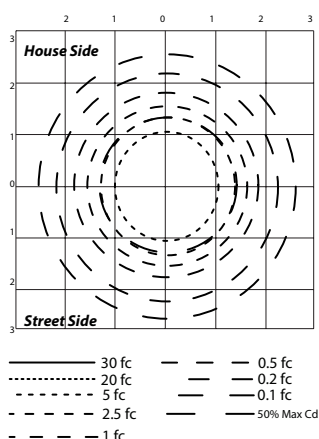
REPORT NUMBER: IMLLED4CD5BU

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.

Industrial Mercmaster™ LED Low Profile Luminaires

For Ordinary Locations

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66/IP67

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water)
For USA ONLY ⌘
International Dark Sky (IDA) Approved

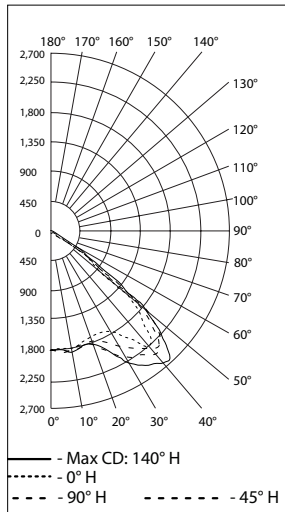
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

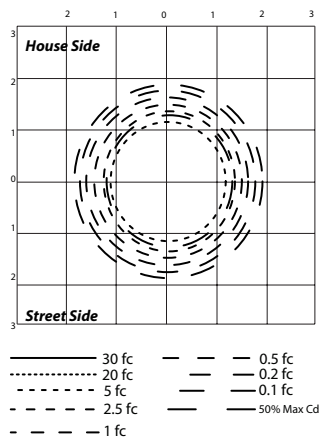
REPORT NUMBER: IMLLED4CG5BU

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

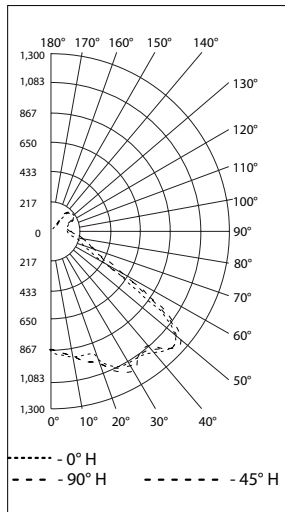
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	173.1	3.1%	90-100	3.8	0.1%
10-20	506.7	9.2%	100-110	3.3	0.1%
20-30	895.7	16.2%	110-120	3.5	0.1%
30-40	1,415.1	25.6%	120-130	1.3	0%
40-50	1,712.6	31.0%	130-140	0.5	0%
50-60	731.4	13.2%	140-150	0.4	0%
60-70	57.6	1.0%	150-160	0.4	0%
70-80	15.7	0.3%	160-170	0.2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

Type V, Clear Polycarbonate 5000K CCT

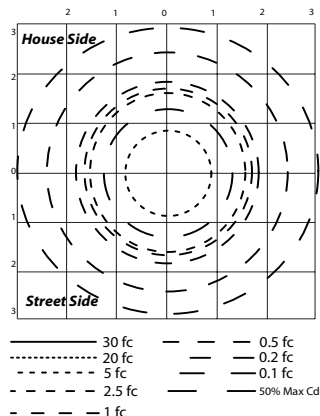
REPORT NUMBER: IMLLED4CJ5BU

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.

Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup For Ordinary Locations

NEC/CEC:
cCSAus Listed
Type 3R, 4, 4X
IP66/67

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
American Bureau of Shipping (ABS) Certified

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
 - Tunnels
 - Pipe racks
 - Vessel lighting
 - Processing areas

Features

- Three light output levels for retrofit of HID fixtures up to 175 W.

Nominal Lumens ①	HID Equivalent	Model Number
3300	70-100W	IMLLED2
4400	100-150W	IMLLED3
5500	150-175W	IMLLED4

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

- 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 three different field replaceable globe options: clear and diffused polycarbonate and clear glass.
- Provides up to 1400 lumens illumination for 90 minutes of emergency lighting with clear lens or 800 lumens illumination for 180 minutes of emergency lighting.
- Functional diagnostic test self-initiates every 14 days after initial start up.
- Duration test is automatically performed once per year.
- Green and Red LED lamps indicate charging status and provide fault warning.
- Simple quick disconnect connector disconnects power between LEDs and battery management module to allow maintenance.
- Compact light weight low profile design is suited for low mounting heights.
- 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: -20 °C to +55 °C (-4 °F to +131 °F)
- Standard screw-type terminal block can accept UL/CSA 26-10 AWG wire.
- Heavy duty, high temperature silicone rubber gaskets.
- LED L70 rated at 109,000 Hours @ +25 °C (+77 °C).
- Field replaceable globes, battery management module (BMM), battery pack and LED driver.
- Rugged housing with superior thermal design translates to long luminaire life.
- Retrofit adapters for Crouse Hinds™ hood available. See Mercmaster CH Adapters.

Options

- Glass globe guard available, purchase separately.

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
- Glass and polycarbonate globe guard: stainless steel wire
- 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 1598, Third Edition; UL 8750, Second Edition; UL 924, Tenth Edition
- CSA Standard: C22.2 No. 250.0-00; C22.2 No. 250.13-2017; C22.2 No. 141-15
- cCSAus Listed: Master contract 164460
- Ambient Temperature:
120-277 Volts: -20 °C up to +55 °C (-4 °F up to +131 °F)

Related Products

- Mercmaster LED Mounting Adapters
- Mercmaster LED Low Profile Luminaires

DesignLights™ Consortium

- Check DLC QPL for current list of products.

① Nominal Lumen value for 5000K CCT, clear glass globe. Detailed lumen information is provided in tables.

Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup For Ordinary Locations

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Illustrated Features

Heatsink

Reliable heat transfer via the cast, epoxy powder coat aluminum body. Provides maximum heat dissipation from the LED assembly to the outside environment.

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.

Driver Assembly

Utilizing non-sparking components avoiding the ignition of gases or vapors that may be present. Field Replaceable Battery Management Module and Battery pack available.

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.



Terminal Blocks

A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from 24-10 AWG.

Stainless Steel Latch Assembly

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



Epoxy Finish

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

Quick Disconnect

Simple quick disconnect connector disconnects power between LEDs and battery management module to allow maintenance.



"Safety" Cable

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



LED/AREA: NEC/CEC EMERGENCY

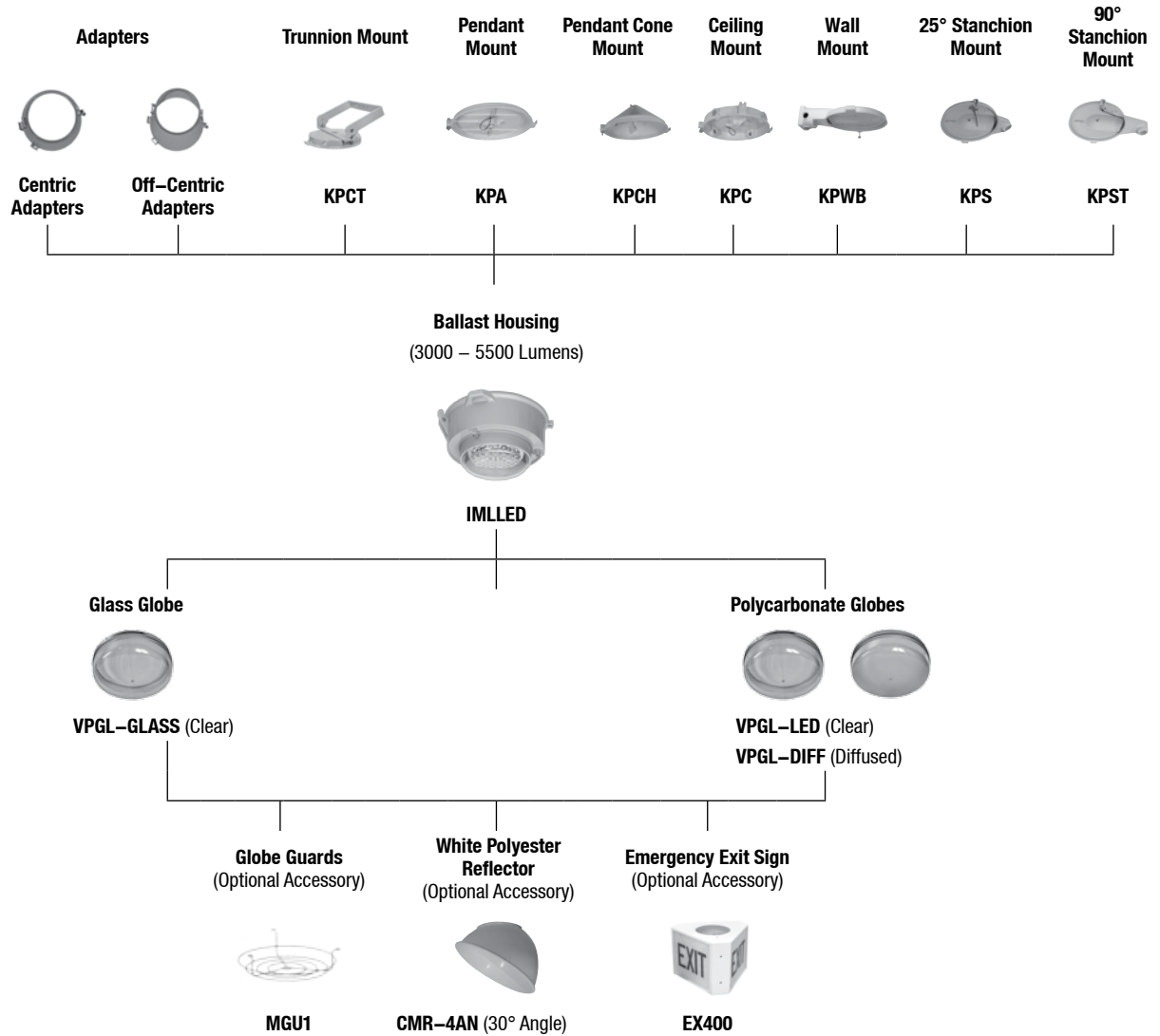
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Mercmaster™ LED Low Profile Family Tree



LED / AREA: NEC/CEC EMERGENCY

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① Certified for CCSAus only.

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

Catalog Numbering Guide For Ordinary Locations:

<u>IMLED</u>	<u>A</u>	<u>3</u>	<u>2</u>	<u>C</u>	<u>P5</u>	<u>BU</u>	<u>H</u>
IMLED - Industrial Mercmaster™ LED Low Profile Series with Emergency Battery Backup Series		Lumen Output ③: 2 - 3K Lumens 3 - 4K Lumens 4 - 5K Lumens		Color Temperature: C - Cool 5000K CCT N - Neutral 4000K CCT W - Warm 3000K CCT		Voltage: BU - 120-277 Vac, 50/60Hz	
			Hub Size: 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - M20 Metric hub Blank - No hub if using adapter or ordering ballast housing only (no mounting hood)				Emergency: H - 90 Minutes
	Mounting: A - Pendant C - Ceiling D - Pendant Cone Hood R - 90° Stanchion ② S - 25° Stanchion ② T - Trunnion W - Wall X - Crouse Hinds™ Adapter, Ceiling or Pendant ① Y - Crouse Hinds™ Adapter, Stanchion or Wall ① Blank - No Mounting Hood			Globe Material ④: P5 - NEMA Type V Clear Polycarbonate Globe D5 - NEMA Type V Diffused Polycarbonate Globe G5 - NEMA Type V Glass Globe			

① Certified for cCSAus only.

② 3/4" NPT, 1" NPT and Metric M20 hub entries not offered in this mounting option.

③ For specific lumen output information, see Lamp Comparison Chart.

④ Guards for the glass globes are ordered separately. See the Accessories for more information.

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Electrical Specification

					Lumens ①					
					Polycarbonate	Polycarbonate	Glass Clear		Color Temp	Equivalent HID
Model	Line Current Amps (50/60Hz)	Input Power	Power Factor	THD	Clear Globe	Diffused Globe	Globe	CRI ②	CCT	Luminaire
NEMA Type V										
IMLLED2	.27 @120V .13 @277V	33.0	> .94	< 15%	3200	3100	3300	>70	5000K	70-100 W
IMLLED3	.33 @120V .16 @277V	40.0	> .96	< 15%	4200	4100	4400	>70	5000K	100-150 W
IMLLED4	.42 @120V .2 @277V	49.0	> .97	< 15%	5300	5150	5500	>70	5000K	150-175 W
90 Minute Emergency Mode										
IMLLED2					1400	1350	1450			
IMLLED3					1400	1350	1450			
IMLLED4					1400	1350	1450			
					Lumens ①					
					Polycarbonate	Polycarbonate	Glass Clear		Color Temp	Equivalent HID
Model	Line Current Amps (50/60Hz)	Input Power	Power Factor	THD	Clear Globe	Diffused Globe	Globe	CRI ②	CCT	Luminaire
NEMA Type V										
MLLED2	.27 @120V .13 @277V	33.0	> .94	< 15%	3200	3100	3100	>70	4000K	70-100 W
MLLED3	.33 @120V .16 @277V	40.0	> .96	< 15%	4200	3900	4200	>70	4000K	100-150 W
MLLED4	.42 @120V .2 @277V	49.0	> .97	< 15%	5000	4900	5200	>70	4000K	150-175 W
90 Minute Emergency Mode										
IMLLED2					1270	1200	1330			
IMLLED3					1270	1200	1330			
IMLLED4					1270	1200	1330			
					Lumens ①					
					Polycarbonate	Polycarbonate	Glass Clear		Color Temp	Equivalent HID
Model	Line Current Amps (50/60Hz)	Input Power	Power Factor	THD	Clear Globe	Diffused Globe	Globe	CRI ②	CCT	Luminaire
NEMA Type V										
IMLLED2	.27 @120V .13 @277V	33.0	> .9	< 15%	3000	2900	3100	>70	3000K	70-100 W
IMLLED3	.33 @120V .16 @277V	40.0	> .9	< 15%	3900	3800	4100	>70	3000K	100-150 W
IMLLED4	.42 @120V .2 @277V	49.0	> .9	< 15%	4900	4800	5000	>70	3000K	150-175 W
90 Minute Emergency Mode										
IMLLED2					1150	1100	1200			
IMLLED3					1150	1100	1200			
IMLLED4					1150	1100	1200			

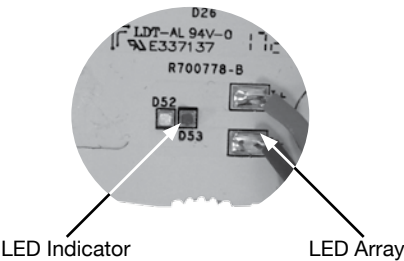
① All lumen values are typical (tolerance +/- 10%).
② 70 minimum.

Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup For Ordinary Locations

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Automatic Testing System (ATS)	
Functional	Full Duration
Starts within 24 to 45 hours after the initial powerup of the module	Starts within 5 to 26 days after the initial power of the module
Occurs every 14 days after the initial aforementioned functional test	Occurs every 364 days after the initial aforementioned functional test
Lasts for 5 minutes	Lasts for the full duration of the rated emergency period
At the completion of functional and full duration tests, LED indicator will display the status of the emergency luminaire when AC is present	



LED Signals		
Color	Timing	Description
Green	1 sec ON: 1 sec OFF	Normal charging ok, Battery not yet fully charged, No fault detected, Testing ok
Green	0.25 sec ON: 0.25 sec OFF	Functional / Duration Self-Test on-going
Green	Steady ON	Charging ok, Battery fully charged, No fault detected, Testing ok
Red	1 sec ON: 1 sec OFF	Fault condition. Installation issue. Battery is reverse, not connected or shorted. Functional test failure, full duration test failure
LED Indicators OFF, LED Array ON	LED Indicator Lights (Red and Green) OFF	No AC, Emergency mode ON

LED / AREA: NEC/CEC EMERGENCY

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Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup For Ordinary Locations

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	Hub Size	Lumen Level	With Type V Polycarbonate Globe ①	With Type V Polycarbonate Diffused Globe ①	Glass Globe ① ②
Pendant — One Hub					
	3/4	3K	IMMLEDA22XP5BUH	IMMLEDA22XD5BUH	IMMLEDA22XG5BUH
	3/4	4K	IMMLEDA32XP5BUH	IMMLEDA32XD5BUH	IMMLEDA32XG5BUH
	3/4	5K	IMMLEDA42XP5BUH	IMMLEDA42XD5BUH	IMMLEDA42XG5BUH
	1	3K	IMMLEDA23XP5BUH	IMMLEDA23XD5BUH	IMMLEDA23XG5BUH
	1	4K	IMMLEDA33XP5BUH	IMMLEDA33XD5BUH	IMMLEDA33XG5BUH
	1	5K	IMMLEDA43XP5BUH	IMMLEDA43XD5BUH	IMMLEDA43XG5BUH
Ceiling — Five Hubs, Four Close-up Plugs					
	3/4	3K	IMMLEDC22XP5BUH	IMMLEDC22XD5BUH	IMMLEDC22XG5BUH
	3/4	4K	IMMLEDC32XP5BUH	IMMLEDC32XD5BUH	IMMLEDC32XG5BUH
	3/4	5K	IMMLEDC42XP5BUH	IMMLEDC42XD5BUH	IMMLEDC42XG5BUH
	1	3K	IMMLEDC23XP5BUH	IMMLEDC23XD5BUH	IMMLEDC23XG5BUH
	1	4K	IMMLEDC33XP5BUH	IMMLEDC33XD5BUH	IMMLEDC33XG5BUH
	1	5K	IMMLEDC43XP5BUH	IMMLEDC43XD5BUH	IMMLEDC43XG5BUH
Pendant Cone — One Hub, Rigid Mounting					
	3/4	3K	IMMLEDD22XP5BUH	IMMLEDD22XD5BUH	IMMLEDD22XG5BUH
	3/4	4K	IMMLEDD32XP5BUH	IMMLEDD32XD5BUH	IMMLEDD32XG5BUH
	3/4	5K	IMMLEDD42XP5BUH	IMMLEDD42XD5BUH	IMMLEDD42XG5BUH
	1	3K	IMMLEDD23XP5BUH	IMMLEDD23XD5BUH	IMMLEDD23XG5BUH
	1	4K	IMMLEDD33XP5BUH	IMMLEDD33XD5BUH	IMMLEDD33XG5BUH
	1	5K	IMMLEDD43XP5BUH	IMMLEDD43XD5BUH	IMMLEDD43XG5BUH

① X = Color temperature; C = Cool, 5000K CCT, N = Neutral, 4000K CCT, W = Warm, 3000K CCT. **MLLEDW43CP5BUH**.

② Guards are available for fixtures with glass or polycarbonate globe. See following pages for accessory ordering information.

Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup For Ordinary Locations

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	Hub Size	Lumen Level	With Type V Polycarbonate Globe ①	With Type V Polycarbonate Diffused Globe ①	Glass Globe ①②
90° Stanchion — One Hub					
	1 - 1/4	3K	IMMLEDR24XP5BUH	IMMLEDR24XD5BUH	IMMLEDR24XG5BUH
	1 - 1/4	4K	IMMLEDR34XP5BUH	IMMLEDR34XD5BUH	IMMLEDR34XG5BUH
	1 - 1/4	5K	IMMLEDR44XP5BUH	IMMLEDR44XD5BUH	IMMLEDR44XG5BUH
	1 - 1/2	3K	IMMLEDR25XP5BUH	IMMLEDR25XD5BUH	IMMLEDR25XG5BUH
	1 - 1/2	4K	IMMLEDR35XP5BUH	IMMLEDR35XD5BUH	IMMLEDR35XG5BUH
	1 - 1/2	5K	IMMLEDR45XP5BUH	IMMLEDR45XD5BUH	IMMLEDR45XG5BUH
25° Stanchion — One Hub					
	1 - 1/4	3K	IMMLEDS24XP5BUH	IMMLEDS24XD5BUH	IMMLEDS24XG5BUH
	1 - 1/4	4K	IMMLEDS34XP5BUH	IMMLEDS34XD5BUH	IMMLEDS34XG5BUH
	1 - 1/4	5K	IMMLEDS44XP5BUH	IMMLEDS44XD5BUH	IMMLEDS44XG5BUH
	1 - 1/2	3K	IMMLEDS25XP5BUH	IMMLEDS25XD5BUH	IMMLEDS25XG5BUH
	1 - 1/2	4K	IMMLEDS35XP5BUH	IMMLEDS35XD5BUH	IMMLEDS35XG5BUH
	1 - 1/2	5K	IMMLEDS45XP5BUH	IMMLEDS45XD5BUH	IMMLEDS45XG5BUH
Wall — Five Hubs, Four Close-Up Plugs					
	3/4	3K	IMMLEDW22XP5BUH	IMMLEDW22XD5BUH	IMMLEDW22XG5BUH
	3/4	4K	IMMLEDW32XP5BUH	IMMLEDW32XD5BUH	IMMLEDW32XG5BUH
	3/4	5K	IMMLEDW42XP5BUH	IMMLEDW42XD5BUH	IMMLEDW42XG5BUH
	1	3K	IMMLEDW23XP5BUH	IMMLEDW23XD5BUH	IMMLEDW23XG5BUH
	1	4K	IMMLEDW33XP5BUH	IMMLEDW33XD5BUH	IMMLEDW33XG5BUH
	1	5K	IMMLEDW43XP5BUH	IMMLEDW43XD5BUH	IMMLEDW43XG5BUH
Trunnion — One Hub					
	3/4	3K	IMMLEDT22XP5BUH	IMMLEDT22XD5BUH	IMMLEDT22XG5BUH
	3/4	4K	IMMLEDT32XP5BUH	IMMLEDT32XD5BUH	IMMLEDT32XG5BUH
	3/4	5K	IMMLEDT42XP5BUH	IMMLEDT42XD5BUH	IMMLEDT42XG5BUH
	1	3K	IMMLEDT23XP5BUH	IMMLEDT23XD5BUH	IMMLEDT23XG5BUH
	1	4K	IMMLEDT33XP5BUH	IMMLEDT33XD5BUH	IMMLEDT33XG5BUH
	1	5K	IMMLEDT43XP5BUH	IMMLEDT43XD5BUH	IMMLEDT43XG5BUH

① X = Color temperature; C = Cool, 5000K CCT, N = Neutral, 4000K CCT, W = Warm, 3000K CCT. Example: **IMLEDW43WP5BUH**.

② Guards are available for fixtures with glass or polycarbonate globe. See following pages for accessory ordering information.

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Fixture Unit — Ballast Body and Globe



Lumen Level	LED Wattage	Light Level Equivalent	NEMA Type	With Type V Polycarbonate Globe ①②	Catalog Number ① With Type V Polycarbonate Diffused Globe ①②	Glass Globe ①②③
NEC/CEC Certified Fixture Housing - For Ordinary Locations						
3K	33	70-100W HPS	Type V	IMMLED2XP5BUH	IMMLED2XD5BUH	IMMLED2XG5BUH
4K	40	100-150W HPS	Type V	IMMLED3XP5BUH	IMMLED3XD5BUH	IMMLED3XG5BUH
5K	49	150-175W HPS	Type V	IMMLED4XP5BUH	IMMLED4XD5BUH	IMMLED4XG5BUH

Mounting Hoods

	Description	Hub Size	Catalog Number
Pendant 	One Hub	3/4	KPA-75
		1	KPA-100
		M20	KPA-M20
Pendant Cone 	One Hub, Rigid Mounting	3/4	KPCH-75
		1	KPCH-100
		M20	KPCH-M20
Trunnion 	Five Hubs, Four Close-Up Plugs	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**.

② **X** = Color temperature; **C** = Cool, 5000K CCT, **N** = Neutral, 4000K CCT, **W** = Warm, 3000K CCT. Example: **MLLED2CP5BUH**.

③ Guards are available for fixtures with glass globe. See following pages for accessory ordering information.

④ Must be ordered separately.

LED / AREA: NEC/CEC EMERGENCY

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Replacement Parts

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

Accessories

	Description	Catalog Number
White Polyester Reflectors		
 30° Angle	30° Angle	CMR-4AN
Exit Sign		
	Emergency Exit sign	EXR-400
Guards		
 Glass Globe Guard	Glass Globe Guard	MGU1
Safety Cable		
	Stainless steel	LEDSC
Replacement Battery Pack		BPMLLED
Replacement Battery Management Module		BMMLLED
Replacement Fuse (Emergency system)		MLF3

Replacement Drivers and Battery Management Module with Battery

	Voltage	Driver Wattage	Luminaire Model	Constant Current Settings	Catalog Number
	BU	50 Watt	MLLED2	415mA	APMS050C135UD41
	BU	50 Watt	MLLED3	550mA	APMS050C135UD55
	BU	50 Watt	MLLED4	690mA	APMS050C135UD69

LED/AREA: NEC/CEC EMERGENCY

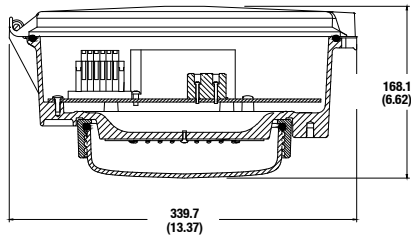
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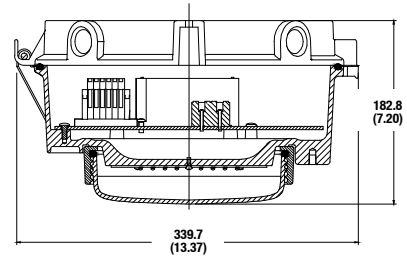
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Simultaneous Exposure
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American Bureau of Shipping (ABS) Certified

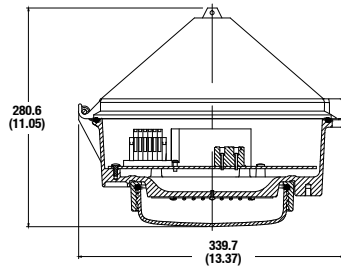
Dimensions in Millimeters (Inches)



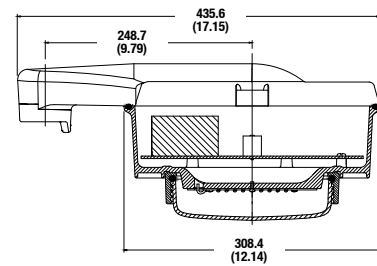
Pendant Mount



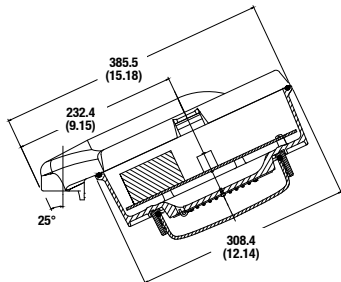
Ceiling Mount



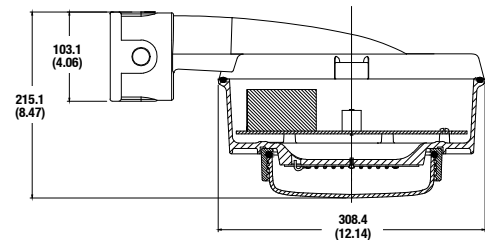
Pendant Cone Mount



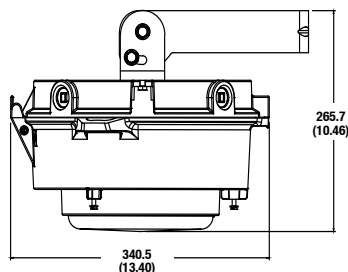
90° Stanchion Mount



25° Stanchion Mount



Wall Mount



Trunnion Mount

LED / AREA: NEC/CEC EMERGENCY

APPLETON

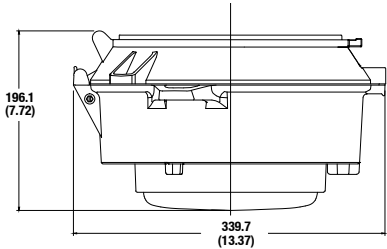
Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup For Ordinary Locations

NEC/CEC:
CCSAus Listed
Type 3R, 4, 4X
IP66/67

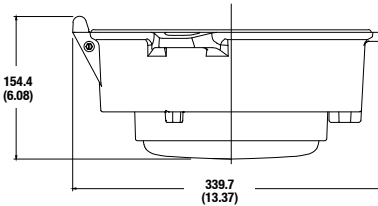
NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
American Bureau of Shipping (ABS) Certified

Dimensions in Millimeters (Inches)

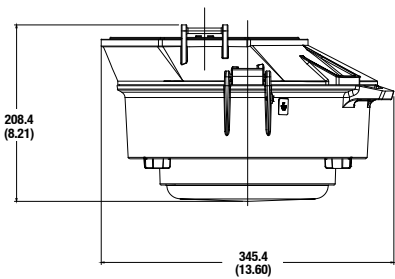
With Polycarbonate Globe



CH-Adapter-Centric



Driver Housing



CH-Adapter Off-Centric

Mercmaster LED Low Profile Fixture and Mounting Hood Weights

Description	Weight kg (lb)
Fixture Unit	5.8 (13.80)
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)
CH-Adapter-Centric	0.9 (2.00)
CH-Adapter-Off-Centric	0.9 (2.00)

Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup For Ordinary Locations

NEC/CEC:
CCSAus Listed
Type 3R, 4, 4X
IP66/67

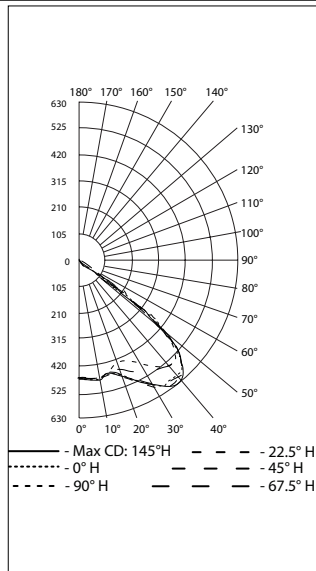
NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
American Bureau of Shipping (ABS) Certified

Photometric Data — DATA SHOWN IS ABSOLUTE

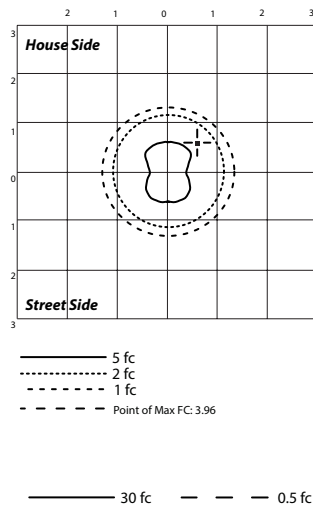
Type V, Clear Polycarbonate 5000K CCT
REPORT NUMBER: IMLLED2CP5BUH+EMR

Luminaire Lumens 1,404

POLAR CANDELA DISTRIBUTION



ISOFOOT CANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	407.0	29%
0-40	763.6	54.4%
0-60	1,388.0	98.8%
60-90	16.4	1.2%
70-100	3.5	0.3%
90-120	0.1	0%
0-90	1,404.4	100%
90-180	0.1	0%
0-180	1,404.5	100%

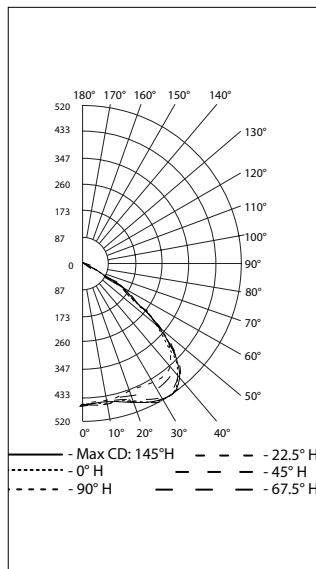
LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	44.3	3.2%	90-100	0.1	0%
10-20	130.2	9.3%	100-110	0	0%
20-30	232.5	16.6%	110-120	0	0%
30-40	356.6	25.4%	120-130	0	0%
40-50	424.6	30.2%	130-140	0	0%
50-60	199.9	14.2%	140-150	0	0%
60-70	12.9	0.9%	150-160	0	0%
70-80	2.4	0.2%	160-170	0	0%
80-90	1.1	0.1%	170-180	0	0%

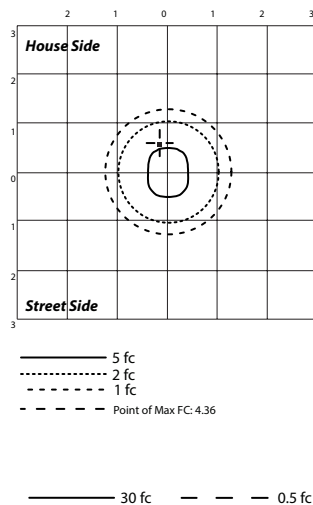
Type V, Diffused Polycarbonate 5000K CCT
REPORT NUMBER: IMLLED2CD5BUH+EMR

Luminaire Lumens 1,369

POLAR CANDELA DISTRIBUTION



ISOFOOT CANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	395.3	28.9%
0-40	702.3	51.3%
0-60	1,231.5	89.9%
60-90	126.7	9.2%
70-100	44.8	3.3%
90-120	10.6	0.8%
0-90	1,358.2	99.2%
90-180	11.1	0.8%
0-180	1,369.3	100%

LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	43.5	3.2%	90-100	4.2	0.3%
10-20	129.9	9.5%	100-110	4.7	0.3%
20-30	221.9	16.2%	110-120	1.8	0.1%
30-40	307.0	22.4%	120-130	0.5	0%
40-50	321.3	23.5%	130-140	0	0%
50-60	208.0	15.2%	140-150	0	0%
60-70	86.0	6.3%	150-160	0	0%
70-80	31.5	2.3%	160-170	0	0%
80-90	9.1	0.7%	170-180	0	0%

Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup For Ordinary Locations

NEC/CEC:
CCSAus Listed
Type 3R, 4, 4X
IP66/67

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
American Bureau of Shipping (ABS) Certified

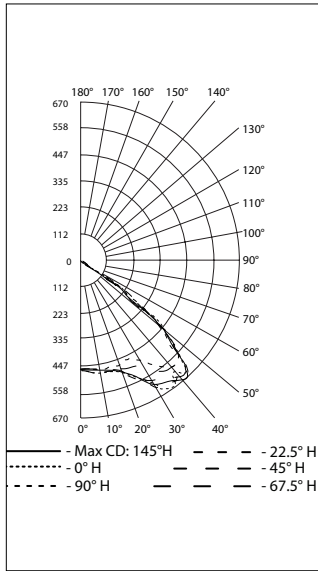
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Glass 5000K CCT

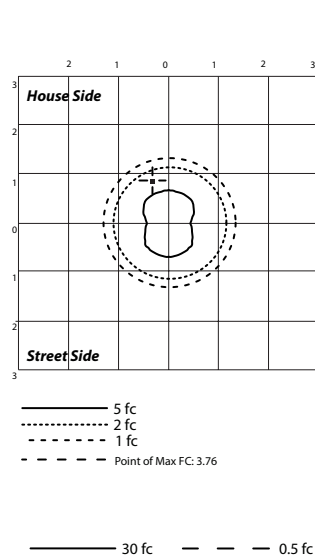
REPORT NUMBER: IMLLED2CG5BUH+EMR

Luminaire Lumens 1,460

POLAR CANDELA DISTRIBUTION



ISOFOOT CANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	420.1	28.8%
0-40	792.8	54.3%
0-60	1,443.4	98.8%
60-90	16.8	1.1%
70-100	3.0	0.2%
90-120	0.1	0%
0-90	1,460.2	100%
90-180	0.1	0%
0-180	1,460.2	100%

LUMENS PER ZONE

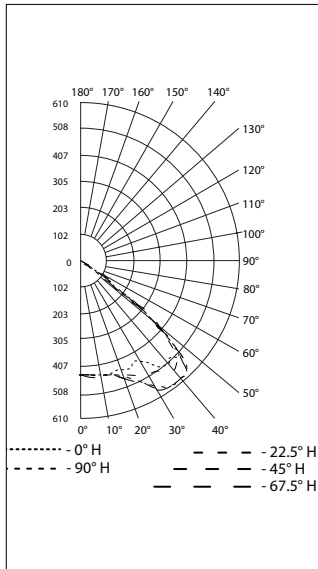
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	44.3	3.0%	90-100	0.1	0%
10-20	133.9	9.2%	100-110	0	0%
20-30	242.0	16.6%	110-120	0	0%
30-40	372.6	25.5%	120-130	0	0%
40-50	444.7	30.5%	130-140	0	0%
50-60	205.9	14.1%	140-150	0	0%
60-70	13.8	0.9%	150-160	0	0%
70-80	2.1	0.1%	160-170	0	0%
80-90	0.8	0.1%	170-180	0	0%

Type V, Clear Polycarbonate 4000K CCT

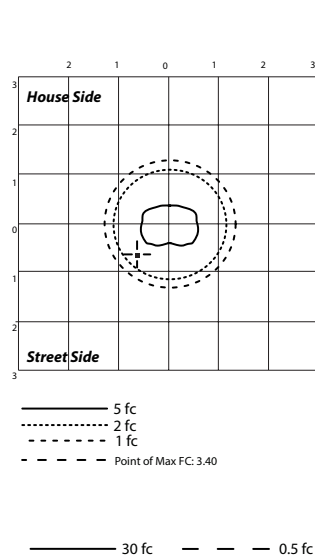
REPORT NUMBER: IMLLED4NG5BUH+EMR

Luminaire Lumens 1,330

POLAR CANDELA DISTRIBUTION



ISOFOOT CANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	392.5	29.5%
0-40	733.5	55.1%
0-60	1,315.4	98.9%
60-90	15.0	1.1%
70-100	2.6	0.2%
90-120	0	0%
0-90	1,330.4	100%
90-180	0	0%
0-180	1,330.4	100%

LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	41.9	3.1%	90-100	0	0%
10-20	125.8	9.5%	100-110	0	0%
20-30	224.8	16.9%	110-120	0	0%
30-40	341.0	25.6%	120-130	0	0%
40-50	399.6	30.0%	130-140	0	0%
50-60	182.3	13.7%	140-150	0	0%
60-70	12.4	0.9%	150-160	0	0%
70-80	1.9	0.1%	160-170	0	0%
80-90	0.7	0.1%	170-180	0	0%

Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

For Ordinary Locations

NEC/CEC:
CCSAus Listed
Type 3R, 4, 4X
IP66/67

NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
American Bureau of Shipping (ABS) Certified

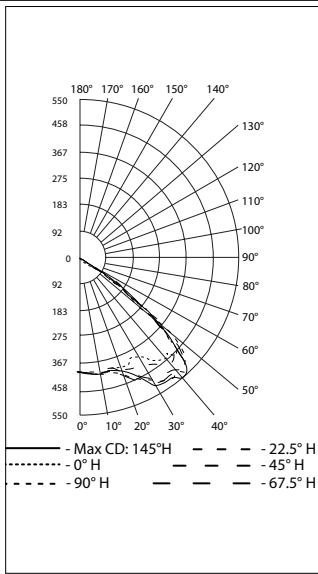
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Glass 4000K CCT

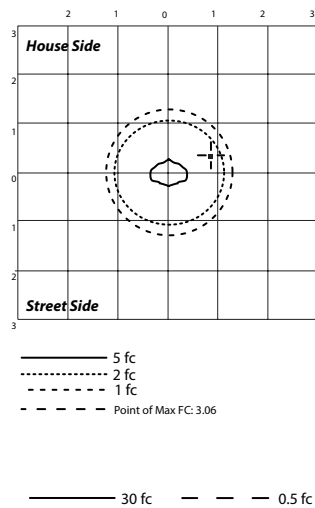
REPORT NUMBER: IMLLED4WG5BUH+EMR

Luminaire Lumens 1,207

POLAR CANDELA DISTRIBUTION



ISOFOOT CANDLE PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	355.1	29.4%
0-40	659.9	54.6%
0-60	1,193.4	98.8%
60-90	14.4	1.2%
70-100	2.4	0.2%
90-120	0	0%
0-90	1,207.8	100%
90-180	0	0%
0-180	1,207.8	100%

LUMENS PER ZONE

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	38.1	3.2%	90-100	0	0%
10-20	114.1	9.4%	100-110	0	0%
20-30	202.9	16.8%	110-120	0	0%
30-40	304.8	25.2%	120-130	0	0%
40-50	360.5	29.8%	130-140	0	0%
50-60	173.0	14.3%	140-150	0	0%
60-70	12.0	1.0%	150-160	0	0%
70-80	1.7	0.1%	160-170	0	0%
80-90	0.7	0.1%	170-180	0	0%

LED / AREA: NEC/CEC EMERGENCY

APPLETON™