

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

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

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

- 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.
- Lamp life rated at 109,000 Hours with a calculated fixture life of 200,000 hours @ +25 °C (+77 °C).

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.

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



- 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.

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.*

Driver Assembly

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



Cooler Operating Cone Hood

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



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.



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.

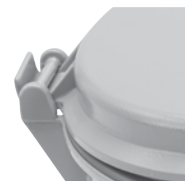
Stainless Steel Latch Assembly

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.



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.



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.

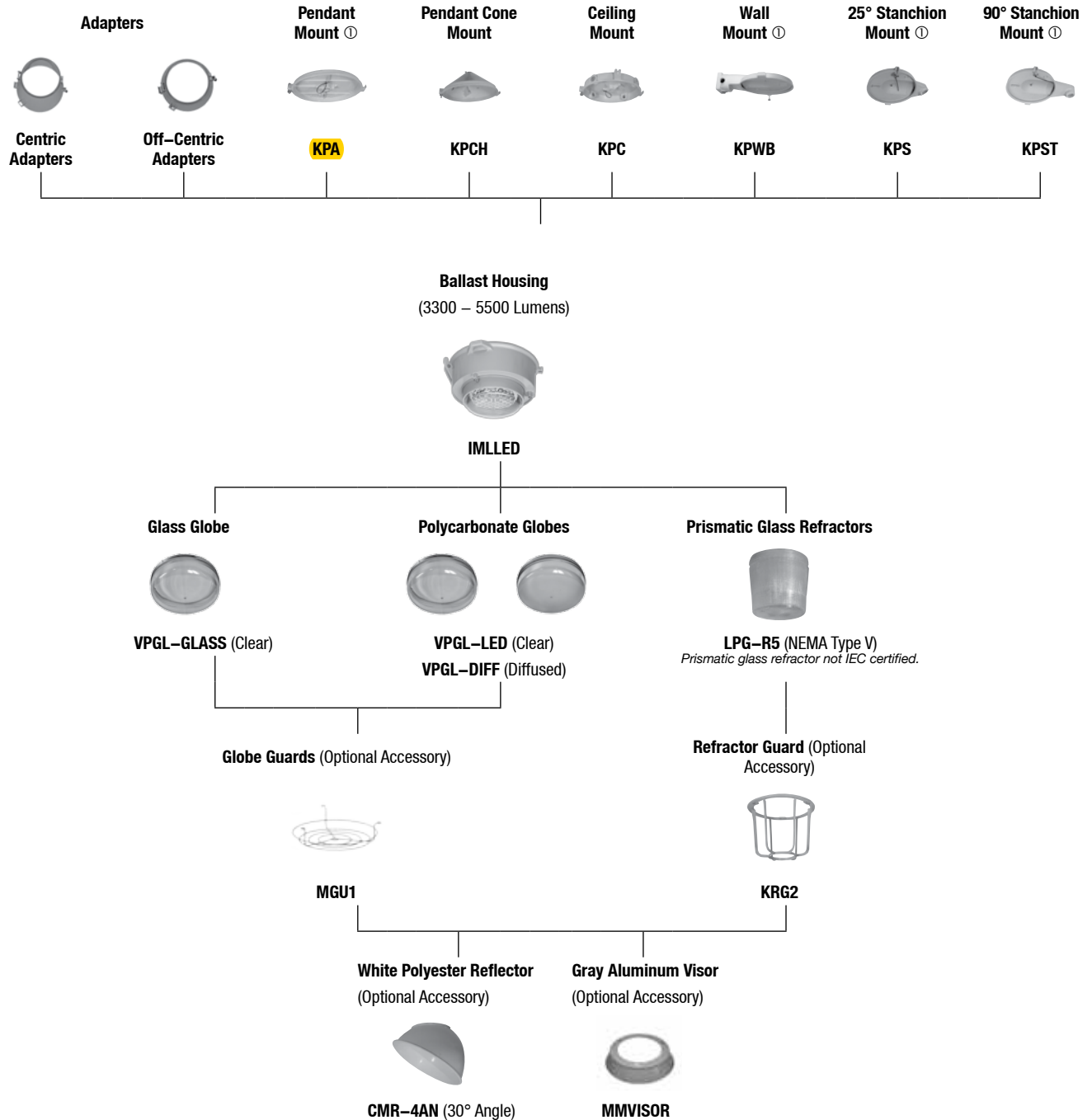
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Mercmaster™ LED Low Profile Family Tree



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

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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:

IMLED	A	3	2	C	P5	BU	F	1
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				Options: F - Fusing ② Blank - No Fusing	
	Mounting: A - Pendant C - Ceiling ① D - Pendant Cone Hood ① R - 90° Stanchion ⑥ S - 25° Stanchion ⑥ W - Wall X - Crouse Hinds™ Adapter, Ceiling or Pendant Y - Crouse Hinds™ Adapter, Stanchion or Wall U - Mercmaster™ II Adapter, Ceiling or Pendant V - Mercmaster™ II Adapter, Stanchion or Wall			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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Electrical Specification

					Lumens ①								
Model	Line Current Amps (50/60Hz)	Input Power	Power Factor	THD	Polycarbonate Clear Globe	Polycarbonate Diffused Globe	Glass Clear Globe	Type V Prismatic Glass Refractor	CRI ②	Color Temp CCT	Equivalent HID Luminaire		
NEMA Type V													
IMLLED2	.28 @120V	28.0	> .94	< 20%	3200	3100	3300	3000	>70	5000K	70-100W		
	.13 @277V	28.0											
	.16 @170V	27.2											
	.09 @300V	27.2											
	.10 @347V	29.7											
.06 @480V	29.8	> .93											
IMLLED3	.38 @120V	38.0	> .96		4200	4100	4400	4000			4000	5000K	100-150W
	.16 @277V	38.0											
	.22 @170V	37.4											
	.13 @300V	39.0											
	.13 @347V	39.6											
.08 @480V	39.7	> .96											
IMLLED4	.48 @120V	48.0	> .97		5300	5150	5500	4900			4900	5000K	150-175W
	.20 @277V	48.0											
	.29 @170V	49.3											
	.16 @300V	48.0											
	.16 @347V	50.5											
.10 @480V	50.4	> .97											

Lumens ①											
	Line Current	Input	Power		Polycarbonate	Polycarbonate	Glass	Type V		Color	Equivalent
Model	Amps (50/60Hz)	Power	Factor	THD	Clear Globe	Diffused Globe	Clear Globe	Prismatic Glass Refractor	CRI ②	Temp CCT	HID Luminaire
NEMA Type V											
IMLLED2	.28 @120V	28.0	> .94	< 20%	3000	2900	3100	2800	>70	4000K	70-100W
	.13 @277V	28.0									
	.16 @170V	27.2									
	.09 @300V	27.2									
	.10 @347V	29.7									
	.06 @480V	29.8									
IMLLED3	.38 @120V	38.0	> .96		4000	3900	4200	3800			100-150W
	.16 @277V	38.0									
	.22 @170V	37.4									
	.13 @300V	39.0									
	.13 @347V	39.6									
	.08 @480V	39.7									
IMLLED4	.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									

Lumens ①														
Model	Line Current Amps (50/60Hz)	Input Power	Power Factor	THD	Polycarbonate Clear Globe	Polycarbonate Diffused Globe	Glass Clear Globe	Type V Prismatic Glass Refractor	CRI ②	Color Temp CCT	Equivalent HID Luminaire			
NEMA Type V														
IMLLED2	.28 @120V	28.0	> .94	< 20%	3000	2900	3100	2800	>70	3000K	70-100W			
	.13 @277V	28.0												
	.16 @170V	27.2												
	.09 @300V	27.2												
	.10 @347V	29.7												
.06 @480V	29.8	> .93												
IMLLED3	.38 @120V	38.0	> .96		3900	3800	4100	3700			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												
IMLLED4	.48 @120V	48.0	> .97		4900	4800	5100	4600			4600	>70	3000K	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.

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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
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	KPS-125 KPS-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: **IMLLED2CP5**.

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

⑤ Must be ordered separately.

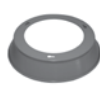
⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

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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			
Accessories			
Description			Catalog Number
White Polyester Reflectors			
	30° Angle		CMR-4AN
30° Angle			
Guards			
		Glass Globe Guard	MGU1
Glass Globe Guard		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 TWM2/3 - Wall	MMADIIS
	Crouse-Hinds™ Champ	JM5 - 25° Angle Stanchion PM5 - 90° Straight Stanchion LPWB75, LPWB100 - Wall	MMADCHVA
	Appleton™ Mercmaster™ II	LPS125, LPS150 - 25° Angle Stanchion	MMADIIA

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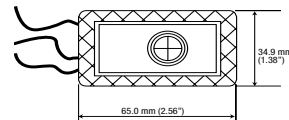
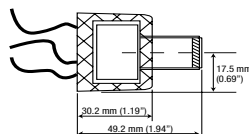
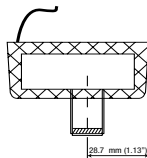
PCD2 Series Factory Sealed Hazardous Location Photocontrol ①

	Voltage Range	Max VA	Max Current Amps	Suffix Designation Catalog Number
Factory Installed Photocontrol — Not for ceiling or pendant cone				
<i>Add to fixture catalog after voltage; i.e.: MLLEDA32XP5BU1. ②</i>				
	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	Driver Wattage	Luminaire Model	Constant Current Settings	Catalog Number
	BU	50 Watt	IMLLED2	720mA	APMS050C135UD72
	BH			720mA	APMS050C135HD72
	BU	50 Watt	IMLLED3	1000mA	APMS050C135UD10
	BH			1000mA	APMS050C135HD10
	BU	50 Watt	IMLLED4	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.

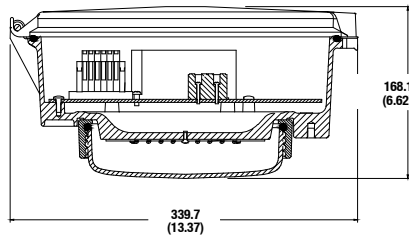
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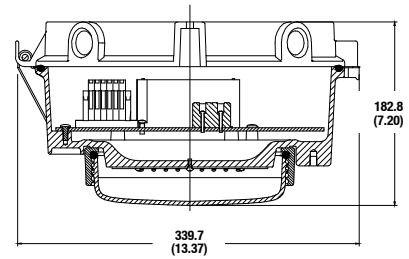
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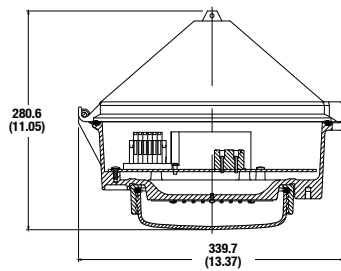
Dimensions in Millimeters (Inches)



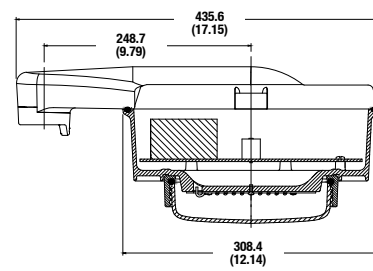
Pendant Mount



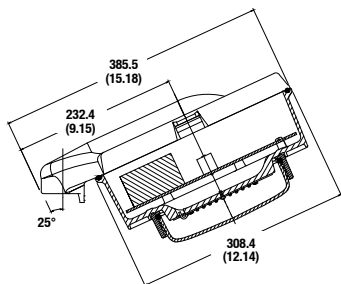
Ceiling Mount



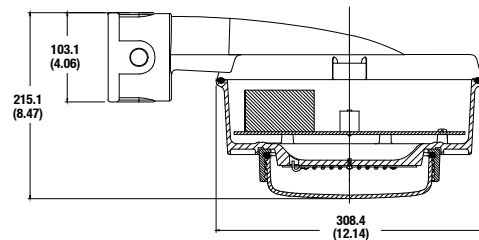
Pendant Cone Mount



90° Stanchion Mount



25° Stanchion Mount



Wall Mount

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

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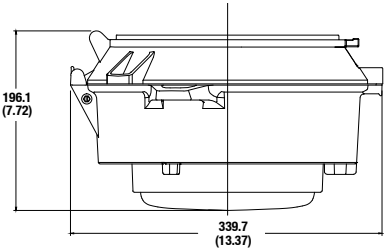
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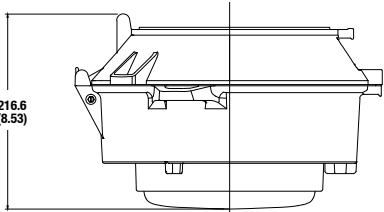
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Dimensions in Millimeters (Inches)

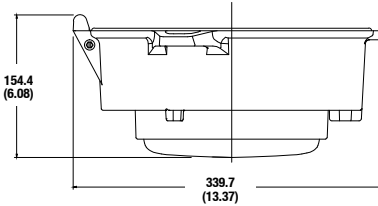
With Polycarbonate Globe



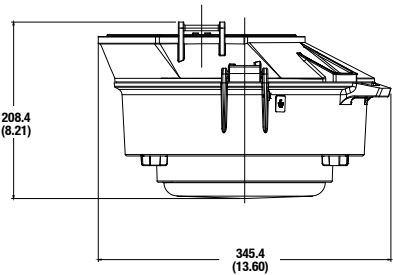
CH-Adapter-Centric



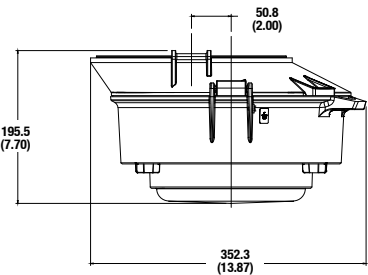
MM-II Adapter-Centric



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

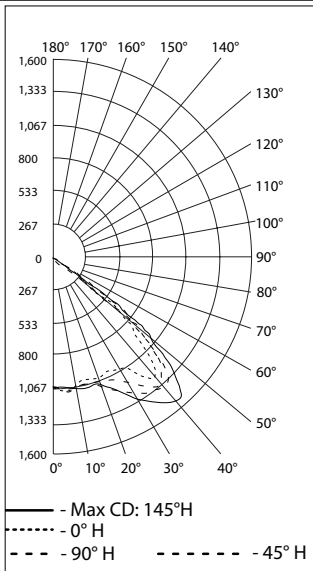
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

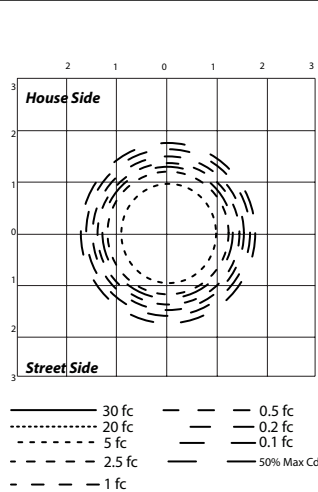
REPORT NUMBER: IMLLED2CP5BU

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

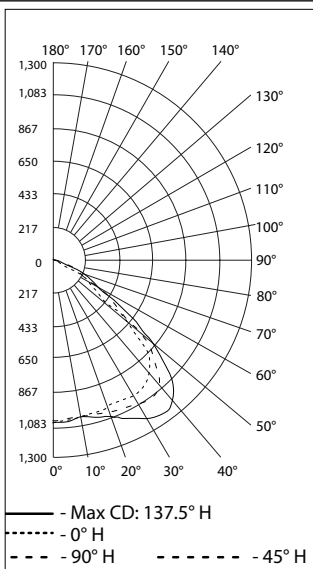
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	102.0	3.2%	90-100	1.9	0.1%
10-20	302.3	9.5%	100-110	1.9	0.1%
20-30	528.5	16.5%	110-120	1.0	0%
30-40	817.9	25.6%	120-130	0.8	0%
40-50	969.4	30.3%	130-140	0.0	0%
50-60	424.2	13.3%	140-150	0	0%
60-70	32.3	1.0%	150-160	0.0	0%
70-80	10.3	0.3%	160-170	0.0	0%
80-90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

Type V, Clear Polycarbonate 5000K CCT

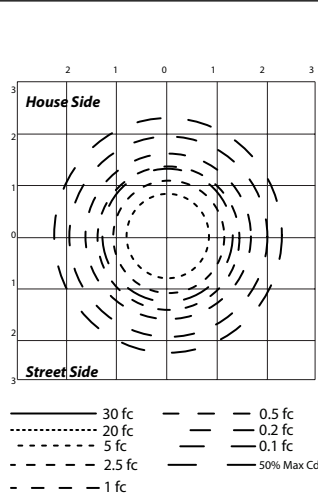
REPORT NUMBER: IMLLED2CD5BU

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%

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

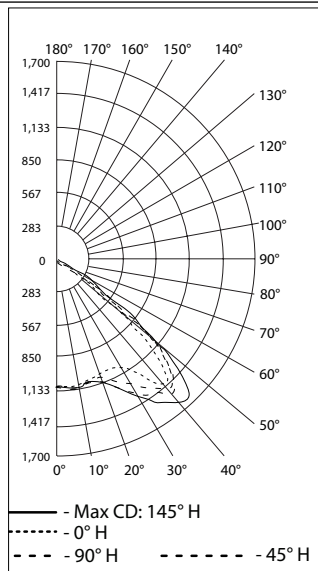
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

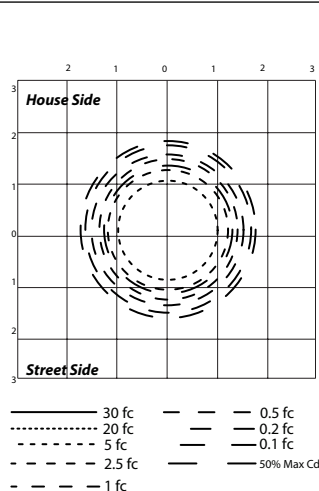
REPORT NUMBER: IMLLED2CG5BU

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

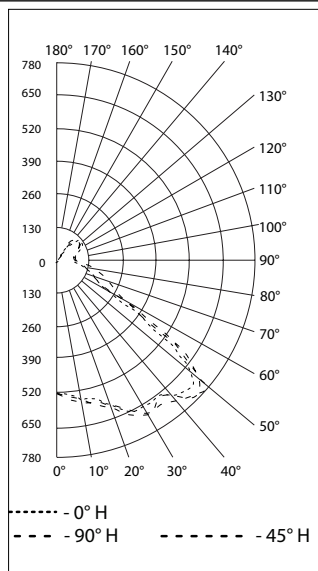
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	105.6	3.2%	90-100	1.1	0%
10-20	309.3	9.3%	100-110	1.2	0%
20-30	545.0	16.3%	110-120	1.6	0%
30-40	868.8	26.1%	120-130	0.3	0%
40-50	1,049.7	31.5%	130-140	0.0	0%
50-60	419.6	12.6%	140-150	0.1	0%
60-70	24.8	0.7%	150-160	0	0%
70-80	4.9	0.1%	160-170	0	0%
80-90	2.4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

Type V, Clear Polycarbonate 5000K CCT

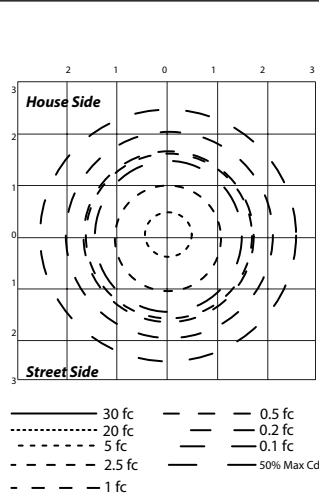
REPORT NUMBER: IMLLED2CJ5BU

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%

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

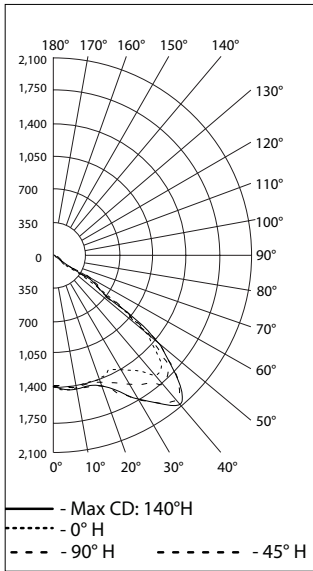
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

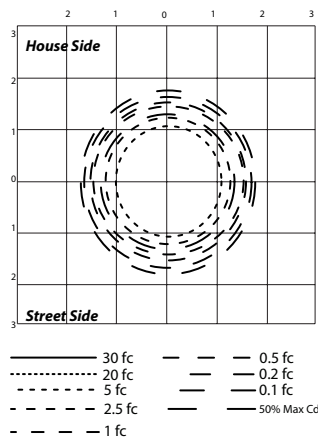
REPORT NUMBER: IMLLED3CP5BU

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

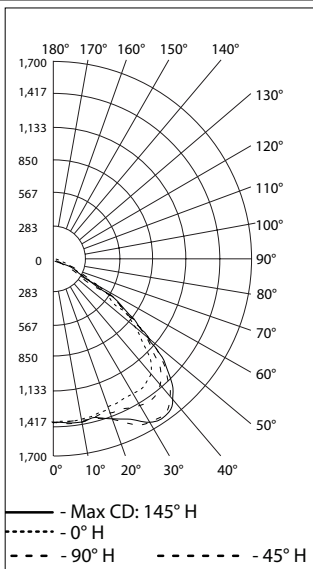
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	134.1	3.2%	90-100	2.3	0.1%
10-20	396.8	9.4%	100-110	1.9	0%
20-30	698.5	16.5%	110-120	1.0	0%
30-40	1,091.3	25.8%	120-130	0.8	0%
40-50	1,302.8	30.8%	130-140	0.0	0%
50-60	555.3	13.1%	140-150	0.0	0%
60-70	33.0	0.8%	150-160	0.0	0%
70-80	10.5	0.2%	160-170	0.0	0%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

Type V, Clear Polycarbonate 5000K CCT

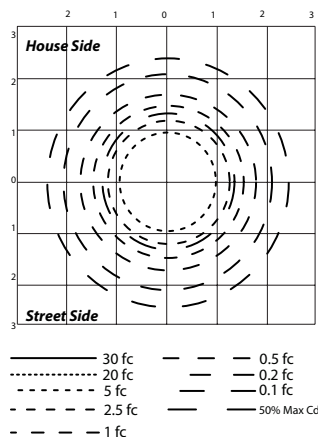
REPORT NUMBER: IMLLED3CD5BU

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%

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

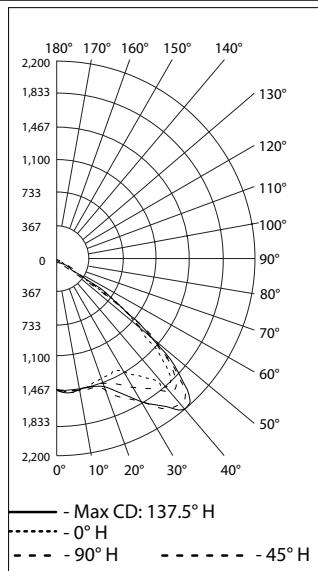
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

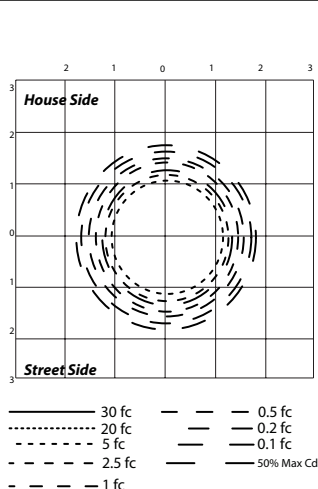
REPORT NUMBER: IMLLED3CG5BU

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

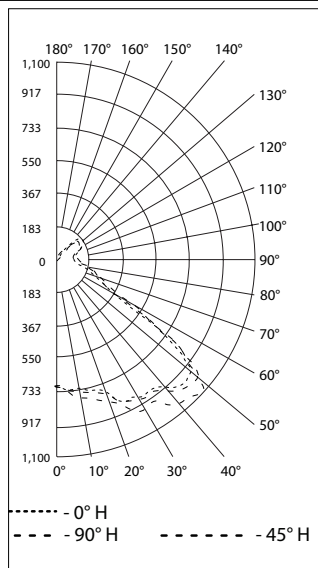
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	140.3	3.1%	90-100	1.2	0%
10-20	411.6	9.2%	100-110	1.4	0%
20-30	730.9	16.4%	110-120	2.1	0%
30-40	1,164.9	26.1%	120-130	0.6	0%
40-50	1,407.0	31.5%	130-140	0.1	0%
50-60	564.3	12.6%	140-150	0.4	0%
60-70	33.0	0.7%	150-160	0.2	0%
70-80	6.5	0.1%	160-170	0.1	0%
80-90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

Type V, Clear Polycarbonate 5000K CCT

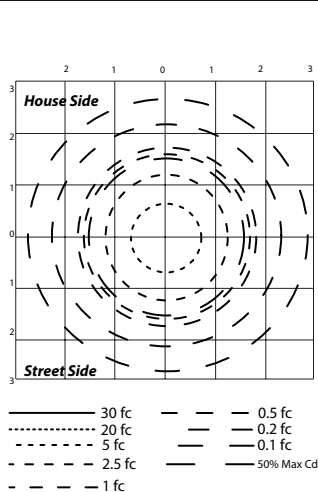
REPORT NUMBER: IMLLED3CJ5BU

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	

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

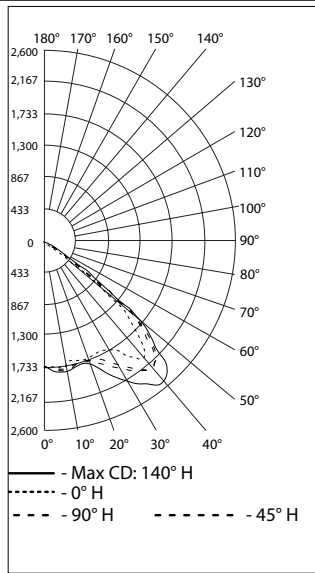
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

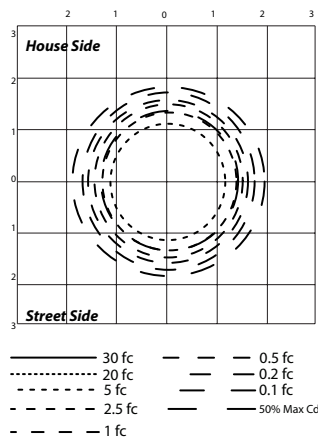
REPORT NUMBER: IMLLED4CP5BU

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

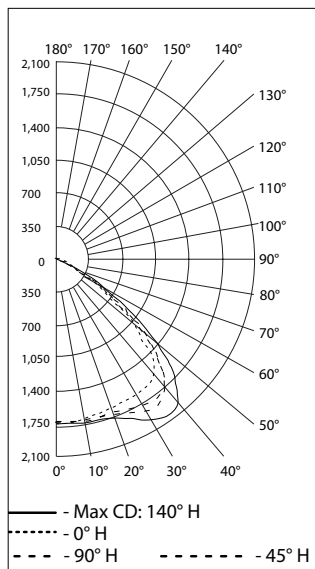
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	166.7	3.1%	90-100	3.1	0.1%
10-20	493.8	9.3%	100-110	3.0	0.1%
20-30	865.2	16.2%	110-120	1.7	0%
30-40	1,346.8	25.3%	120-130	0.9	0%
40-50	1,619.8	30.4%	130-140	0.6	0%
50-60	745.2	14.0%	140-150	0.6	0%
60-70	56.1	1.1%	150-160	0.4	0%
70-80	17.0	0.3%	160-170	0.2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

Type V, Clear Polycarbonate 5000K CCT

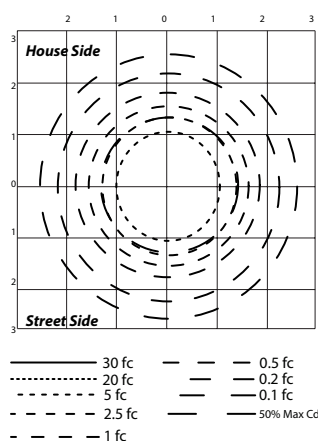
REPORT NUMBER: IMLLED4CD5BU

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%

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

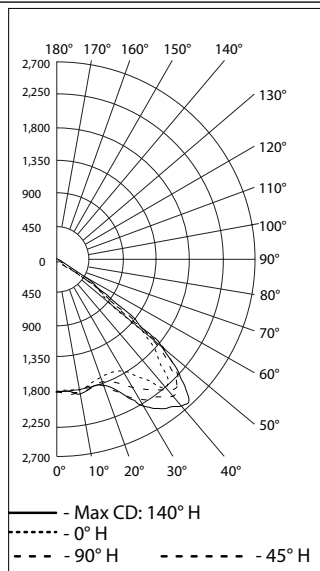
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

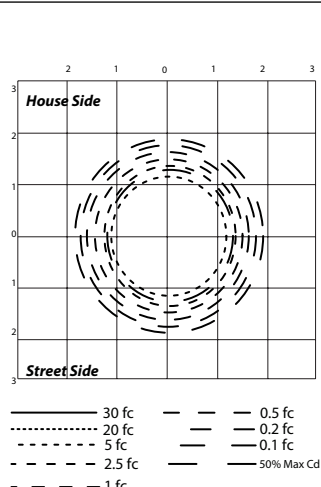
REPORT NUMBER: IMLLED4CG5BU

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

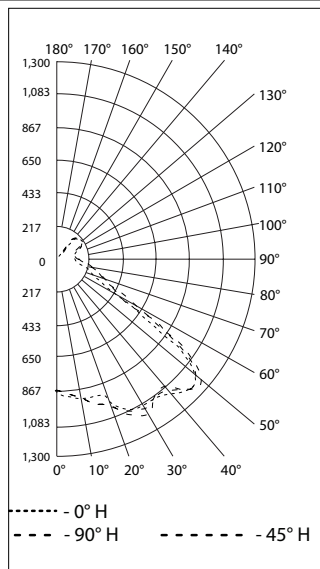
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	173.1	3.1%	90-100	3.8	0.1%
10-20	506.7	9.2%	100-110	3.3	0.1%
20-30	895.7	16.2%	110-120	3.5	0.1%
30-40	1,415.1	25.6%	120-130	1.3	0%
40-50	1,712.6	31.0%	130-140	0.5	0%
50-60	731.4	13.2%	140-150	0.4	0%
60-70	57.6	1.0%	150-160	0.4	0%
70-80	15.7	0.3%	160-170	0.2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

Type V, Clear Polycarbonate 5000K CCT

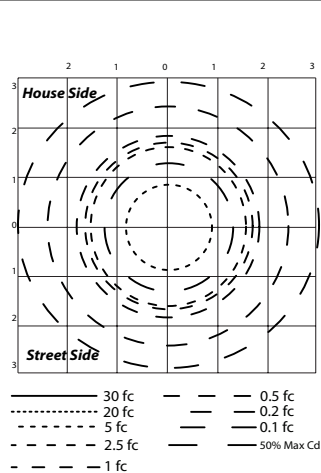
REPORT NUMBER: IMLLED4CJ5BU

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%