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) ⌘
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 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.
- Seven 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™ ✢, Mercmaster II, and Killark™ ✧ available. See Mercmaster™ 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.
- Watertight Pendant Hood available to address water ingress into luminaire via conduit
- Standard 6 kV surge protection.
- Ambient Temperature: BU: -40 °C to +65 °C (-40 °F to +149 °F) BH: -40 °C up to +65 °C (-40 °F up to +149 °F)
- Standard screw-type terminal block can accept UL/CSA 26-10 AWG wire.
- Heavy duty, high temperature silicone rubber gaskets.
- Standard NPT threads.
- LED L70 life rated at 109,000 Hours with a calculated fixture life of 200,000 hours @ +25 °C (+77 °F).
- 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
- Colored Glass globes available, purchase separately: Amber (VPGLGLASSAM), Blue (VPGLGLASSBL), Red (VPGLGLASSRE), Green (VPGLGLASSGR)

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 or refractor 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
- CSA Standard: No. 250.0-.08; C22.2 No. 250.13-14
- ANSI/IEC Standard: 60529
- cCSAus Listed: 164460

Other Certifications

- NOM Certificate: 06823; Reference: 4789619242

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.

Related Products

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

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.

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Illustrated Features

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 UL/CSA .14 to 6 mm^2 (26-10 AWG).

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

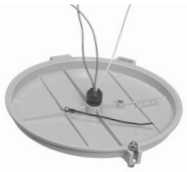
Mounting Hood and Globe Gaskets
Silicone rubber gaskets seal out moisture, dirt and dust. Stays flexible, withstands extreme temperatures. Closure design assures uniform gasket compression.

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.*

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

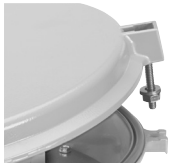
Photocell (optional)
Factory Installed in the Mounting Hood. Available for all fixtures ② except cone and ceiling mount. Provides continuous ON-OFF dusk-to-dawn control. *Note: Fixtures with PCD2 photocontrols are not rated IP66, Type 4X, Marine Outside Type (Salt Water), but are suitable for wet locations.*



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 4 mm in diameter.

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



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

** Refer to ambient range table which is contained in the IECEx certificate of conformity file or the catalog pages for T-code ratings.*
① *Factory Installed. Fusing only permitted for cCSAus rating.*
② *Available for 120-277 Vac models only.*
⌘ *Use of fuse voids Marine Outside Type (Salt Water) rating.*

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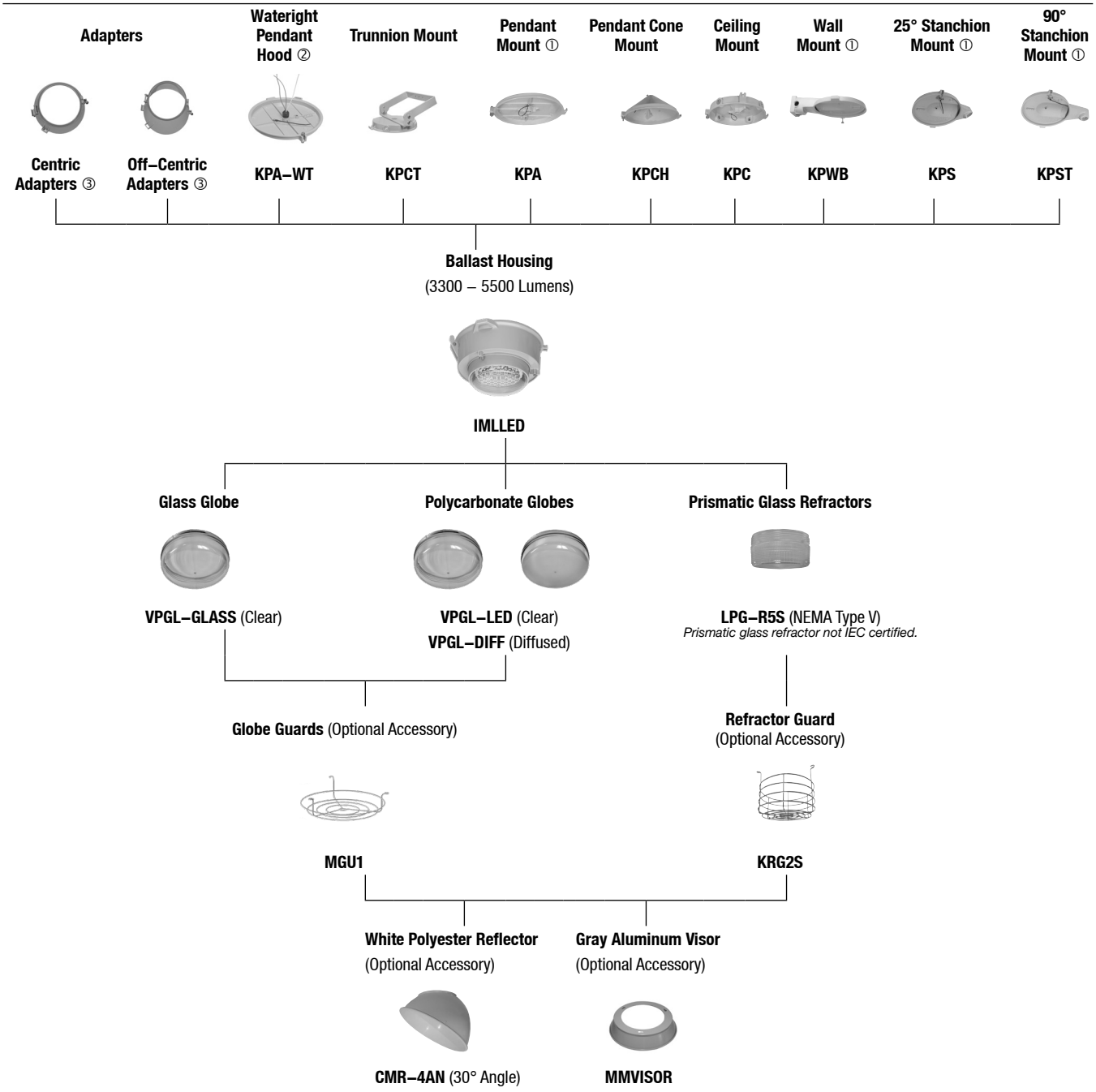
Industrial Mercmaster™ LED Low Profile Family Tree



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 For Ordinary Locations

IMLLED **A** **3** **2** **C** **P5** **BU** **F** **1**

Series:
IMLLED - Industrial Mercmaster LED Low Profile Series

Mounting:
A - Pendant
B - Watertight Pendant Hood ⑥
C - Ceiling ①
D - Pendant Cone Hood ①
R - 90° Stanchion ⑦
S - 25° Stanchion ⑦
T - Trunnion
W - Wall
K - Killark™ Adapter Universal ⑥
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

Lumen Output ⑤:
2 - 3K Lumens
3 - 4K Lumens
4 - 5K Lumens

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

Color Temperature:
C - Cool 5000K CCT
N - Neutral 4000K CCT
W - Warm 3000K CCT

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 ④⑥

Voltage:
BU - 120-277 Vac, 50/60 Hz; or 170-300 Vdc
BH - 347-480 Vac, 50/60 Hz ⑥

Options:
F - Fusing ②⑥
Blank - No Fusing

Photocontrol:
1 - Photocontrol 120V ③
2 - Photocontrol 208V ③
3 - Photocontrol 240V ③
4 - Photocontrol 277V ③
Blank - No Photocontrol

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 Certified for cCSAus only.
⑦ 3/4" NPT, 1" NPT and Metric M20 hub entries not offered in this mounting option.
⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

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Lumen Values Table ①②

Model	Lumens ① 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	3200	3100	3300	3000			70-100W
IMLLED3	4200	4100	4400	4000	>70	5000K	100-150W
IMLLED4	5300	5150	5500	4900			150-175W
NEMA Type V							
IMLLED2	3000	2900	3100	2800			70-100W
IMLLED3	4000	3900	4200	3800	>70	4000K	100-150W
IMLLED4	5000	4900	5200	4650			150-175W
NEMA Type V							
IMLLED2	3000	2900	3100	2800			70-100W
IMLLED3	3900	3800	4100	3700	>70	3000K	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

Lumen Level	LED Wattage	Light Level Equivalent	NEMA Type	Catalog Number ① 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	**KPA-75**
		1	**KPA-100**
		M20	**KPA-M20**
Watertight Pendant Hood	One Hub	3/4	**KPA-75-WT**
		1	**KPA-100-WT**
Pendant Cone	One Hub, Rigid Mounting	3/4	**KPCH-75**
		1	**KPCH-100**
		M20	**KPCH-M20**
Trunnion	One Hub	3/4	**KPCT-75**
		1	**KPCT-100**
Ceiling	Five Hubs, Four Close-Up Plugs	3/4	**KPC-75**
		1	**KPC-100**
		M20	**KPC-M20**
Wall	Five Hubs, Four Close-Up Plugs	3/4	**KPWB-75**
		1	**KPWB-100**
		M20	**KPWB-M20**
25° Stanchion	One Hub	1-1/4	**KPS-125**
		1-1/2	**KPS-150**
90° Stanchion	One Hub	1-1/4	**KPST-125**
		1-1/2	**KPST-150**

*① For 120-277 Vac, use suffix **-BU**. For 347-480 Vac, use suffix **-BH.***
*② For optional fusing, add suffix **–F** to the end of the catalog number. Factory installed.*
*③ **X** = Color temperature; **C** = Cool, 5000K CCT, **N** = Neutral, 4000K CCT, **W** = Warm, 3000K CCT. Example: **MLLED2CP5.***
④ Guards are available for fixtures with glass globe or refractor. See following pages for accessory ordering information.
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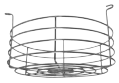
Replacement Parts

	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		
Glass Refractor ①	NEMA Type V	**LPG-R5S**

Accessories

			Description	Catalog Number
Reflector and Large Refractor				
30° Angle	**Large Refractor ①**		30° Angle White Polyester Reflectors	**CMR-4AN**
			NEMA Type V Large Glass Refractor	**LPG-R5**
Guards				
Glass Globe Guard	 **Refractor Guard**	**Large Refractor Guard**	Glass Globe Guard	**MGU1**
			Refractor Guard for LPG-R5S	**KRG2S**
			Large Refractor Guard for LPG-R5	**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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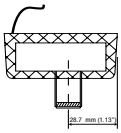
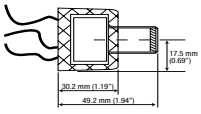
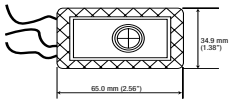
PCD2 Series Factory Sealed Hazardous Location Photocontrol ①

	Voltage Range	Max VA	Max Current Amps	Suffix Designation Catalog Number
Factory Installed Photocontrol — Not for ceiling or pendant cone *Add to fixture catalog after voltage; i.e.: MLLEDA32XP5BU1.* ②				
Mercmaster™ III wall mounting hood with photocontrol installed shown	120 V, 50/60 Hz	1000	8.3 Amp	**1**
	208 V, 50/60 Hz	1000	4.8 Amp	**2**
	240 V, 50/60 Hz	1000	4.2 Amp	**3**
	277 V, 50/60 Hz	1000	3.6 Amp	**4**
Photocontrol in FS Cover for Use with FS/FD Box *Supplied with two stainless steel screws. For neoprene gasket, order catalog number* ***FS-GKR-1N****.*				
	120 V, 50/60 Hz	1000	8.3 Amp	**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	**KPA75PC12D2**
Pendant	3/4" NPT	208V, 240V, 277V	**KPA75PC24D2**
Pendant	1" NPT	120V	**KPA100PC12D2**
Pendant	1" NPT	208V, 240V, 277V	**KPA100PC24D2**
Wall	3/4" NPT	120V	**KPWB75PC12D2**
Wall	3/4" NPT	208V, 240V, 277V	**KPWB75PC24D2**
Wall	1" NPT	120V	**KPWB100PC12D2**
Wall	1" NPT	208V, 240V, 277V	**KPWB100PC24D2**
25 Stanchion	1-1/4" NPT stanchion	120V	**KPS125PC12D2**
25 Stanchion	1-1/4" NPT stanchion	208V, 240V, 277V	**KPS125PC24D2**
25 Stanchion	1-1/2" NPT stanchion	120V	**KPS150PC12D2**
25 Stanchion	1-1/2" NPT stanchion	208V, 240V, 277V	**KPS150PC24D2**
90 Stanchion	1-1/4" NPT stanchion	120V	**KPST125PC12D2**
90 Stanchion	1-1/4" NPT stanchion	208V, 240V, 277V	**KPST125PC24D2**
90 Stanchion	1-1/2" NPT stanchion	120V	**KPST150PC12D2**
90 Stanchion	1-1/2" NPT stanchion	208V, 240V, 277V	**KPST150PC24D2**

Replacement Drivers

	Voltage ③	Driver Wattage	Luminaire Model	Constant Current Settings	Catalog Number
	BU	50 Watt	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 IP66/67, Type 4X, marine outside type (salt water), or Class II. Available for 120-277 Vac versions only.
*② **X** = Color temperature; C = Cool, 5000K CCT, N= Neutral, 4000K CCT, W = Warm, 3000K CCT*
③ BH voltage only permitted for cCSAus rating.
⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

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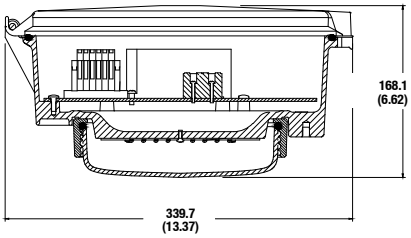
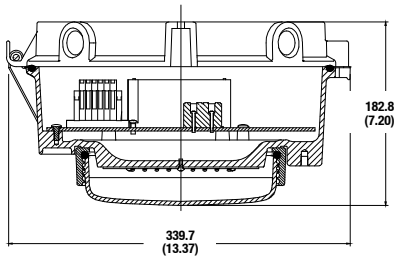
Marine Outside Type (Salt Water) ⌘
International Dark Sky (IDA) Approved

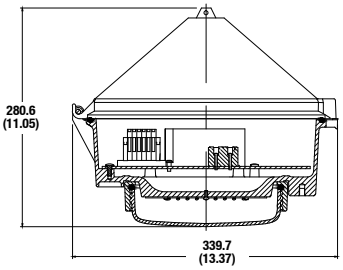
Dimensions in Millimeters (Inches)



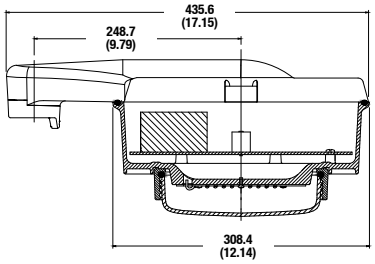
Pendant Mount



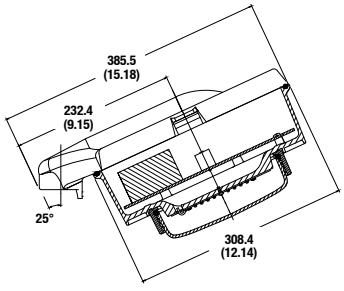
Ceiling Mount



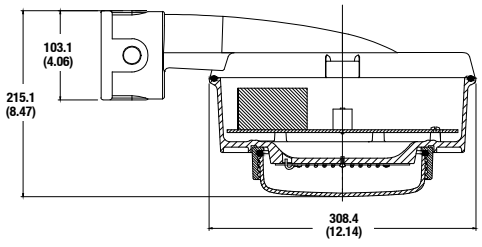
Pendant Cone Mount



90° Stanchion Mount



25° Stanchion Mount



Wall Mount

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

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Industrial Mercmaster™ LED Low Profile Luminaires

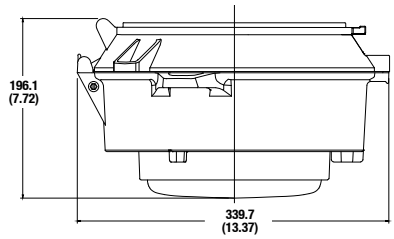
For Ordinary Locations

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

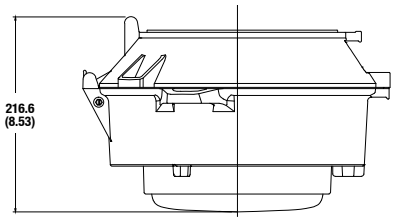
NEC/CEC:
Simultaneous Exposure
Suitable for Use in Wet Locations
Marine Outside Type (Salt Water) ⌘
International Dark Sky (IDA) Approved

Dimensions in Millimeters (Inches)

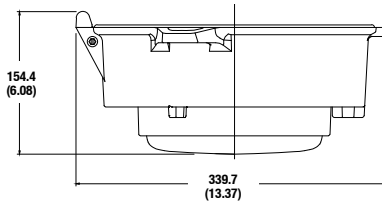
With Polycarbonate Globe



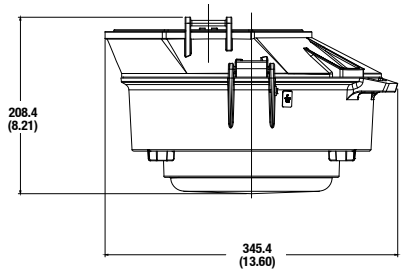
CH–Adapter–Centric



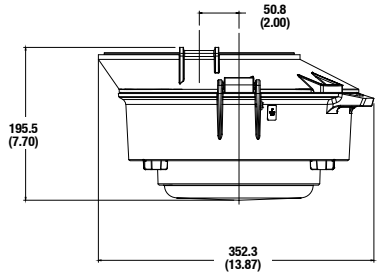
MM–II Adapter–Centric



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)
Watertight Pendant Hood	1.1 (2.4)
Pendant Cone Mounting Hood	1.1 (2.50)
Ceiling Mounting Hood	1.4 (3.00)
Wall Mounting Hood	1.8 (4.00)
25° Stanchion Mounting Hood	1.5 (3.25)
90° Stanchion Mounting Hood	1.7 (3.75)
MM-II Adapter-Centric	0.9 (2.00)
MM-II Adapter-Off-Centric	0.9 (2.00)
CH-Adapter-Centric	0.9 (2.00)
CH-Adapter-Off-Centric	0.9 (2.00)
Killark Adapter	1.0 (2.3)

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

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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) ⌘
International Dark Sky (IDA) Approved

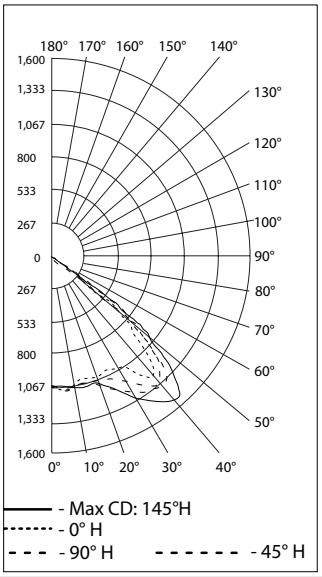
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

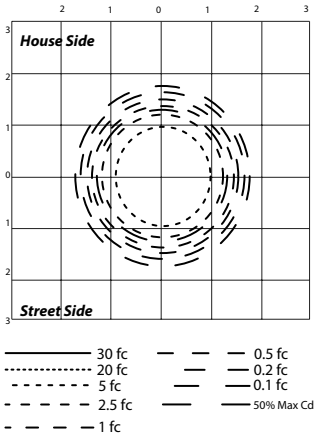
REPORT NUMBER: **IMLLED2CP5BU**

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

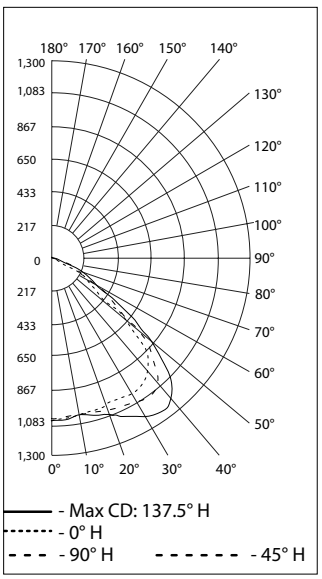
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	102.0	3.2%	90-100	1.9	0.1%
10-20	302.3	9.5%	100-110	1.9	0.1%
20-30	528.5	16.5%	110-120	1.0	0%
30-40	817.9	25.6%	120-130	0.8	0%
40-50	969.4	30.3%	130-140	0.0	0%
50-60	424.2	13.3%	140-150	0	0%
60-70	32.3	1.0%	150-160	0.0	0%
70-80	10.3	0.3%	160-170	0.0	0%
80-90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

Type V, Clear Polycarbonate 5000K CCT

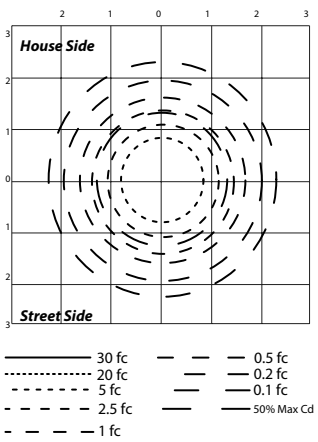
REPORT NUMBER: **IMLLED2CD5BU**

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%

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

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

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

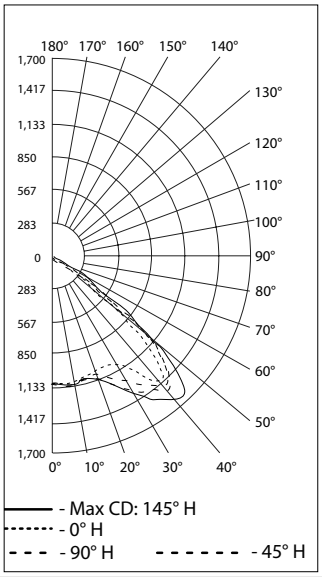
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

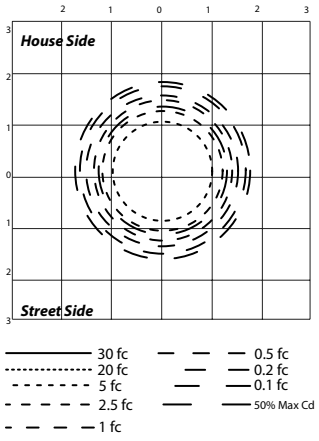
REPORT NUMBER: **IMLLED2CG5BU**

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

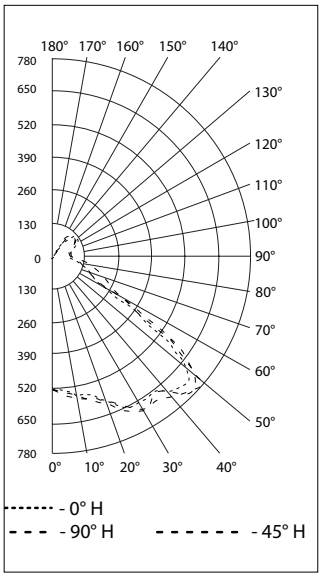
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	105.6	3.2%	90-100	1.1	0%
10-20	309.3	9.3%	100-110	1.2	0%
20-30	545.0	16.3%	110-120	1.6	0%
30-40	868.8	26.1%	120-130	0.3	0%
40-50	1,049.7	31.5%	130-140	0.0	0%
50-60	419.6	12.6%	140-150	0.1	0%
60-70	24.8	0.7%	150-160	0	0%
70-80	4.9	0.1%	160-170	0	0%
80-90	2.4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

Type V, Clear Polycarbonate 5000K CCT

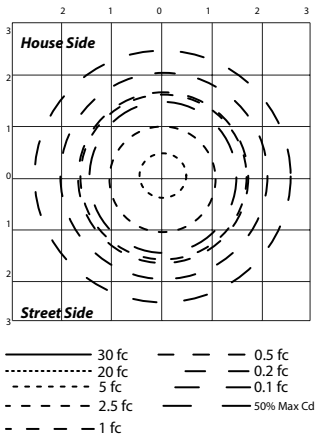
REPORT NUMBER: **IMLLED2CJ5BU**

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%

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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) ⌘
International Dark Sky (IDA) Approved

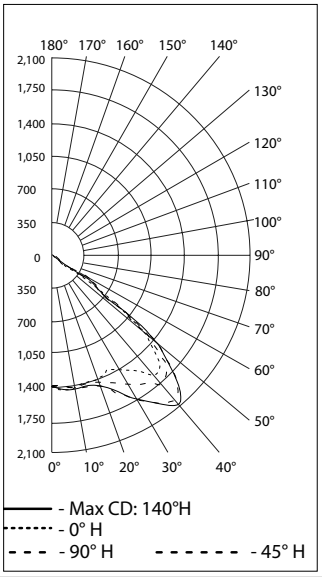
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

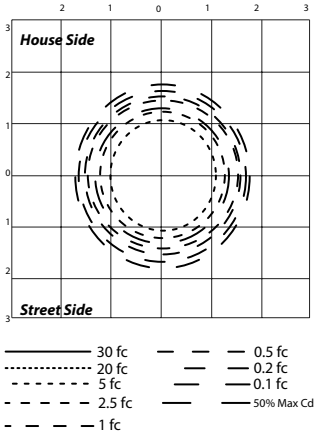
REPORT NUMBER: **IMLLED3CP5BU**

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

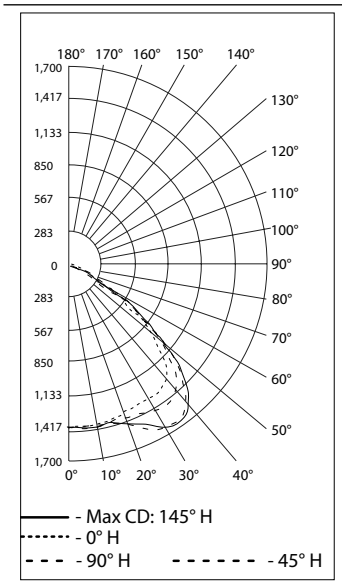
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	134.1	3.2%	90-100	2.3	0.1%
10-20	396.8	9.4%	100-110	1.9	0%
20-30	698.5	16.5%	110-120	1.0	0%
30-40	1,091.3	25.8%	120-130	0.8	0%
40-50	1,302.8	30.8%	130-140	0.0	0%
50-60	555.3	13.1%	140-150	0.0	0%
60-70	33.0	0.8%	150-160	0.0	0%
70-80	10.5	0.2%	160-170	0.0	0%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

Type V, Clear Polycarbonate 5000K CCT

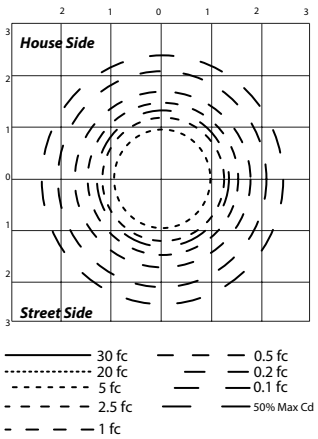
REPORT NUMBER: **IMLLED3CD5BU**

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%

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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) ⌘
International Dark Sky (IDA) Approved

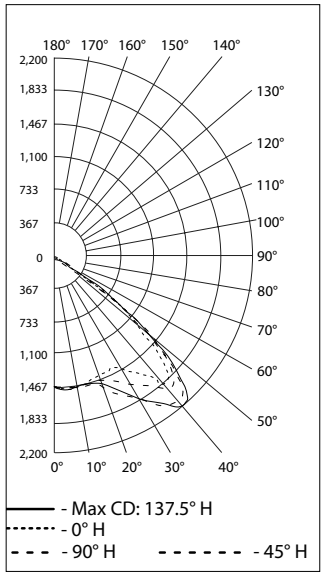
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

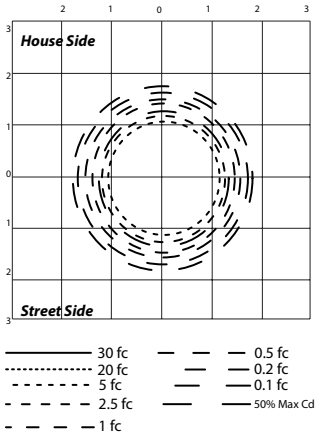
REPORT NUMBER: **IMLLED3CG5BU**

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

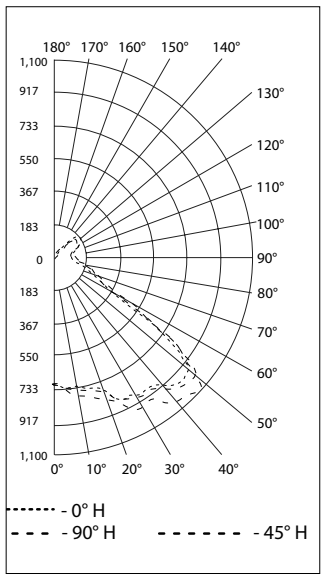
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	140.3	3.1%	90-100	1.2	0%
10-20	411.6	9.2%	100-110	1.4	0%
20-30	730.9	16.4%	110-120	2.1	0%
30-40	1,164.9	26.1%	120-130	0.6	0%
40-50	1,407.0	31.5%	130-140	0.1	0%
50-60	564.3	12.6%	140-150	0.4	0%
60-70	33.0	0.7%	150-160	0.2	0%
70-80	6.5	0.1%	160-170	0.1	0%
80-90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

Type V, Clear Polycarbonate 5000K CCT

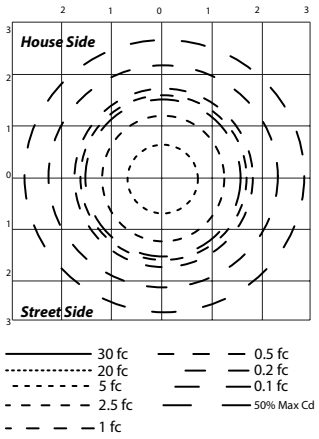
REPORT NUMBER: **IMLLED3CJ5BU**

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	

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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) ⌘
International Dark Sky (IDA) Approved

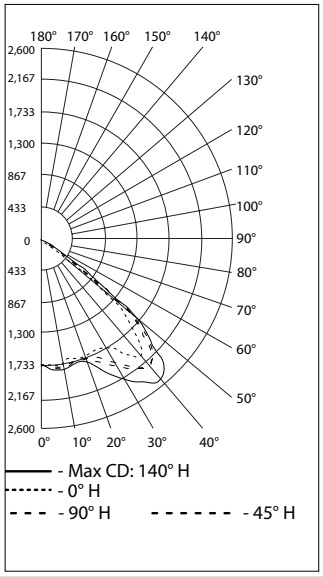
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

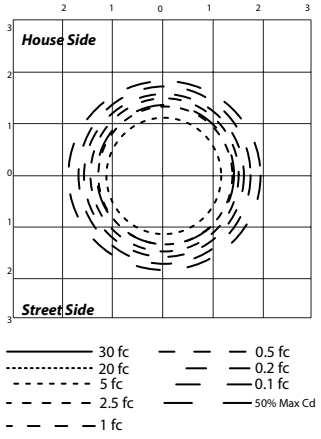
REPORT NUMBER: **IMLLED4CP5BU**

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

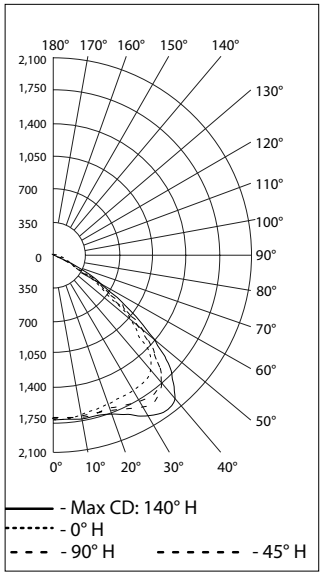
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	166.7	3.1%	90-100	3.1	0.1%
10-20	493.8	9.3%	100-110	3.0	0.1%
20-30	865.2	16.2%	110-120	1.7	0%
30-40	1,346.8	25.3%	120-130	0.9	0%
40-50	1,619.8	30.4%	130-140	0.6	0%
50-60	745.2	14.0%	140-150	0.6	0%
60-70	56.1	1.1%	150-160	0.4	0%
70-80	17.0	0.3%	160-170	0.2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



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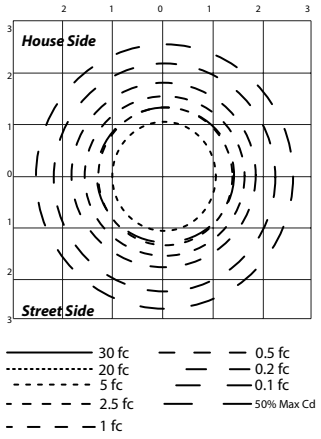

ZONAL LUMEN SUMMARY

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%

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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) ⌘
International Dark Sky (IDA) Approved

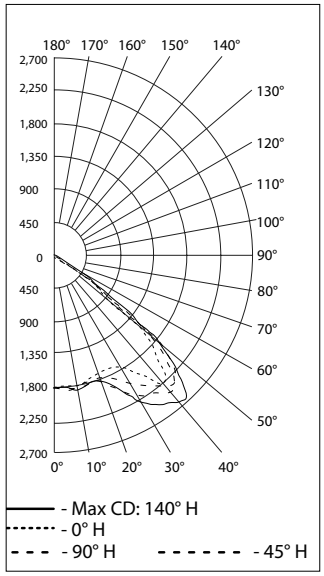
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

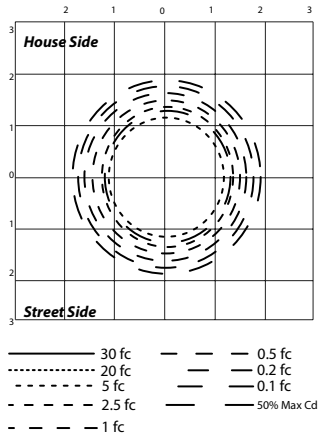
REPORT NUMBER: **IMLLED4CG5BU**

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

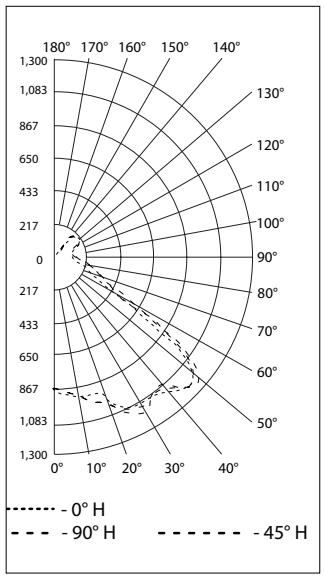
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	173.1	3.1%	90-100	3.8	0.1%
10-20	506.7	9.2%	100-110	3.3	0.1%
20-30	895.7	16.2%	110-120	3.5	0.1%
30-40	1,415.1	25.6%	120-130	1.3	0%
40-50	1,712.6	31.0%	130-140	0.5	0%
50-60	731.4	13.2%	140-150	0.4	0%
60-70	57.6	1.0%	150-160	0.4	0%
70-80	15.7	0.3%	160-170	0.2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

Type V, Clear Polycarbonate 5000K CCT

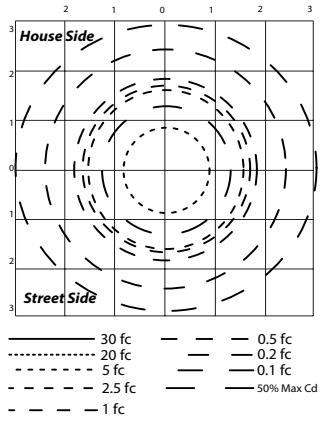
REPORT NUMBER: **IMLLED4CJ5BU**

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%

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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
  - — Areas where dust, water, dirt and rough usage are a problem
- Typical applications include:
  - — Walkways/catwalks
  - — Stairwells
  - — Tunnels
  - — Pipe racks
  - — Vessel lighting
  - — Processing areas

Features

- 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.
- 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™ Generation 3.
- Customize to the application requirements with three different field replaceable globe options: clear and diffused polycarbonate, or clear glass
- Retrofit adapters for Crouse Hinds™ ✣, Mercmaster II, and Killark™ ✧ available. See Mercmaster™ Adapters.
- 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

- 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.
- Standard NPT threads.
- LED L70 life rated at 109,000 Hours with a calculated fixture life of 200,000 hours @ +25 °C (+77 °F).
- Field replaceable globes, battery management module (BMM), battery pack and LED driver.
- Rugged housing with superior thermal design translates to long luminaire life.

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)

DesignLights™ Consortium

- Check DLC QPL for current list of products.

Related Products

- Mercmaster LED Mounting Adapters
- Mercmaster LED Low Profile Luminaires

① Nominal Lumen value for 5000K CCT, clear glass globe. Detailed lumen information is provided in tables.
✧ Killark is a registered trademark of Hubbell Incorporated
✣ Crouse-Hinds is a registered trademarks of Cooper Crouse-Hinds.

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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

Illustrated Features

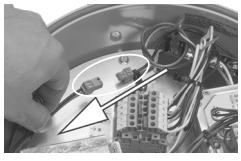
Driver Assembly
Utilizing non-sparking components avoiding the ignition of gases or vapors that may be present. Field Replaceable Battery Management Module and Battery pack available.

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

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

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.

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



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

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.

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

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

Visit our website at **www.emerson.com** or contact us at **(800) 621-1506**.
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Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

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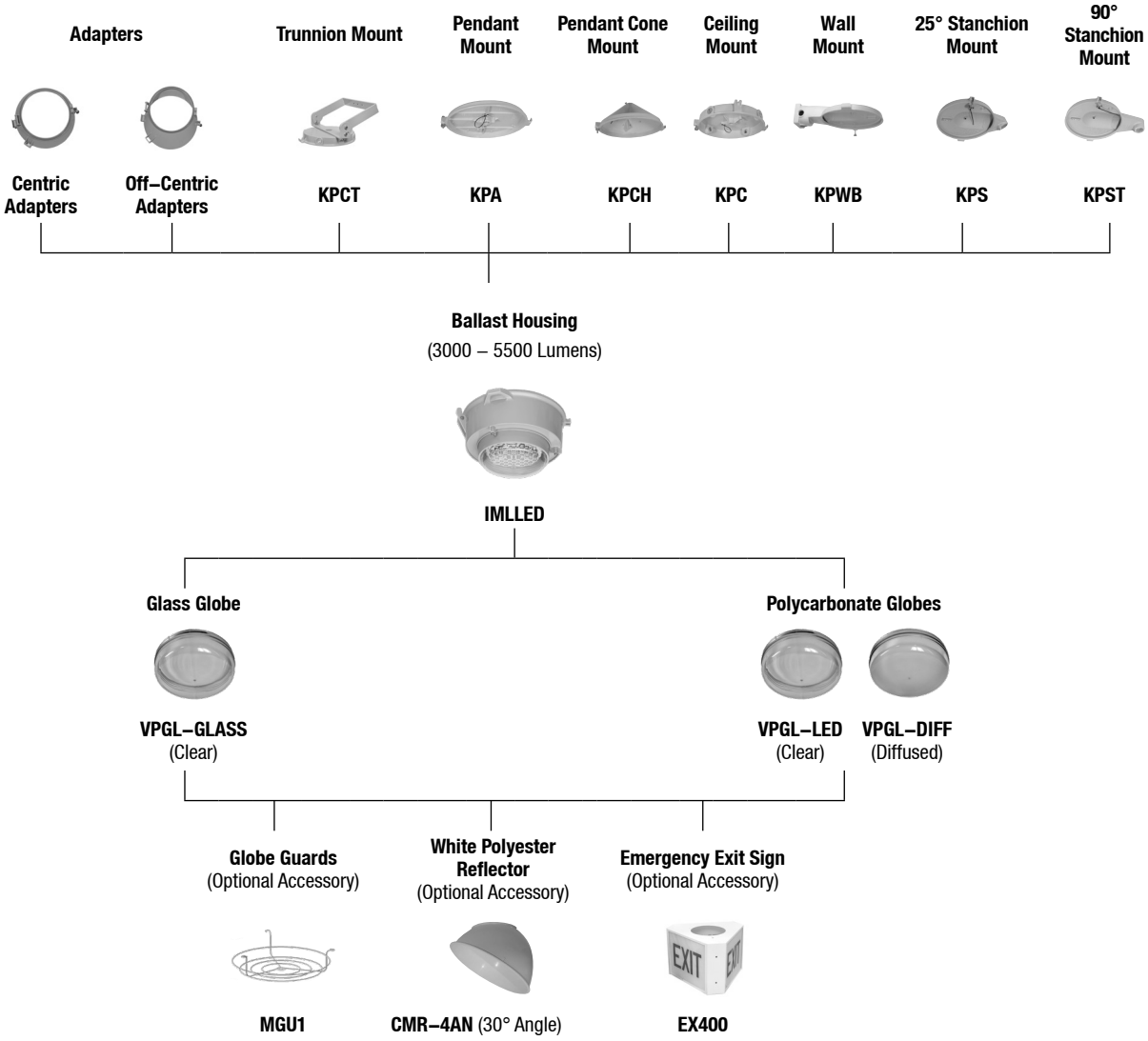
Mercmaster™ LED Low Profile Family Tree



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Type 3R, 4, 4X
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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 with Emergency Battery Backup

IMLLED **A** **3** **2** **C** **P5** **BU** **H**

Series:
IMLLED - Industrial Mercmaster™ LED Low Profile Series with Emergency Battery Backup Series

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

Lumen Output ③:
2 - 3K Lumens
3 - 4K Lumens
4 - 5K Lumens

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)

Color Temperature:
C - Cool 5000K CCT
N - Neutral 4000K CCT
W - Warm 3000K CCT

Globe Material ④:
P5 - NEMA Type V Clear Polycarbonate Globe
D5 - NEMA Type V Diffused Polycarbonate Globe
G5 - NEMA Type V Glass Globe

Voltage:
BU - 120-277 Vac, 50/60 Hz

Emergency:
H - 90 Minutes

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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Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

For Ordinary Locations

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IP66/67

NEC/CEC:
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American Bureau of Shipping (ABS) Certified

Electrical Specification

Model	Line Current Amps (50/60 Hz)	Input Power	Power Factor	THD	Lumens ① Polycarbonate Clear Globe	Polycarbonate Diffused Globe	Glass Clear Globe	CRI ②	Color Temp CCT	Equivalent HID Luminaire
5000K | 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
5000K | 90 Minute Emergency Mode										
IMLLED2					1400	1350	1450			
IMLLED3					1400	1350	1450			
IMLLED4					1400	1350	1450			
4000K | NEMA Type V										
IMLLED2	.27 @120V .13 @277V	33.0	> .94	< 15%	3200	3100	3100	>70	4000K	70-100 W
IMLLED3	.33 @120V .16 @277V	40.0	> .96	< 15%	4200	3900	4200	>70	4000K	100-150 W
IMLLED4	.42 @120V .2 @277V	49.0	> .97	< 15%	5000	4900	5200	>70	4000K	150-175 W
4000K | 90 Minute Emergency Mode										
IMLLED2					1270	1200	1330			
IMLLED3					1270	1200	1330			
IMLLED4					1270	1200	1330			
3000K | 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
3000K | 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.
⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

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Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

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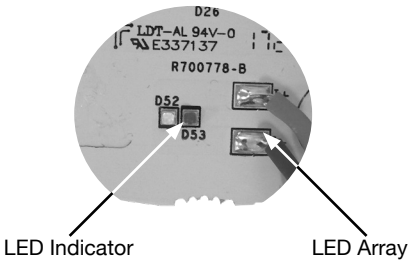
Automatic Testing System (ATS)	
Functional	**Full Duration**
Starts within 24 to 45 hours after the initial powerup of the module	Starts within 5 to 26 days after the initial power of the module
Occurs every 14 days after the initial aforementioned functional test	Occurs every 364 days after the initial 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

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Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

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NEC/CEC:
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	Hub Size	Lumen Level	With Type V Polycarbonate Globe ①	With Type V Polycarbonate Diffused Globe ①	Glass Globe ①②
Pendant — One Hub					
	3/4	3K	**IMLLEDA22XP5BUH**	**IMLLEDA22XD5BUH**	**IMLLEDA22XG5BUH**
	3/4	4K	**IMLLEDA32XP5BUH**	**IMLLEDA32XD5BUH**	**IMLLEDA32XG5BUH**
	3/4	5K	**IMLLEDA42XP5BUH**	**IMLLEDA42XD5BUH**	**IMLLEDA42XG5BUH**
	1	3K	**IMLLEDA23XP5BUH**	**IMLLEDA23XD5BUH**	**IMLLEDA23XG5BUH**
	1	4K	**IMLLEDA33XP5BUH**	**IMLLEDA33XD5BUH**	**IMLLEDA33XG5BUH**
	1	5K	**IMLLEDA43XP5BUH**	**IMLLEDA43XD5BUH**	**IMLLEDA43XG5BUH**
Ceiling — Five Hubs, Four Close-up Plugs					
	3/4	3K	**IMLLEDC22XP5BUH**	**IMLLEDC22XD5BUH**	**IMLLEDC22XG5BUH**
	3/4	4K	**IMLLEDC32XP5BUH**	**IMLLEDC32XD5BUH**	**IMLLEDC32XG5BUH**
	3/4	5K	**IMLLEDC42XP5BUH**	**IMLLEDC42XD5BUH**	**IMLLEDC42XG5BUH**
	1	3K	**IMLLEDC23XP5BUH**	**IMLLEDC23XD5BUH**	**IMLLEDC23XG5BUH**
	1	4K	**IMLLEDC33XP5BUH**	**IMLLEDC33XD5BUH**	**IMLLEDC33XG5BUH**
	1	5K	**IMLLEDC43XP5BUH**	**IMLLEDC43XD5BUH**	**IMLLEDC43XG5BUH**
Pendant Cone — One Hub, Rigid Mounting					
	3/4	3K	**IMLLEDD22XP5BUH**	**IMLLEDD22XD5BUH**	**IMLLEDD22XG5BUH**
	3/4	4K	**IMLLEDD32XP5BUH**	**IMLLEDD32XD5BUH**	**IMLLEDD32XG5BUH**
	3/4	5K	**IMLLEDD42XP5BUH**	**IMLLEDD42XD5BUH**	**IMLLEDD42XG5BUH**
	1	3K	**IMLLEDD23XP5BUH**	**IMLLEDD23XD5BUH**	**IMLLEDD23XG5BUH**
	1	4K	**IMLLEDD33XP5BUH**	**IMLLEDD33XD5BUH**	**IMLLEDD33XG5BUH**
	1	5K	**IMLLEDD43XP5BUH**	**IMLLEDD43XD5BUH**	**IMLLEDD43XG5BUH**

① ***X*** *= Color temperature; C = Cool, 5000K CCT, N= Neutral, 4000K CCT, W = Warm, 3000K CCT. I**MLLEDW43CP5BUH.***
② *Guards are available for fixtures with glass or polycrbonate globe. See following pages for accessory ordering information.*

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Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

For Ordinary Locations

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Type 3R, 4, 4X
IP66/67

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

	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	**IMLLEDR24XP5BUH**	**IMLLEDR24XD5BUH**	**IMLLEDR24XG5BUH**
	1 - 1/4	4K	**IMLLEDR34XP5BUH**	**IMLLEDR34XD5BUH**	**IMLLEDR34XG5BUH**
	1 - 1/4	5K	**IMLLEDR44XP5BUH**	**IMLLEDR44XD5BUH**	**IMLLEDR44XG5BUH**
	1 - 1/2	3K	**IMLLEDR25XP5BUH**	**IMLLEDR25XD5BUH**	**IMLLEDR25XG5BUH**
	1 - 1/2	4K	**IMLLEDR35XP5BUH**	**IMLLEDR35XD5BUH**	**IMLLEDR35XG5BUH**
	1 - 1/2	5K	**IMLLEDR45XP5BUH**	**IMLLEDR45XD5BUH**	**IMLLEDR45XG5BUH**
25° Stanchion — One Hub					
	1 - 1/4	3K	**IMLLEDS24XP5BUH**	**IMLLEDS24XD5BUH**	**IMLLEDS24XG5BUH**
	1 - 1/4	4K	**IMLLEDS34XP5BUH**	**IMLLEDS34XD5BUH**	**IMLLEDS34XG5BUH**
	1 - 1/4	5K	**IMLLEDS44XP5BUH**	**IMLLEDS44XD5BUH**	**IMLLEDS44XG5BUH**
	1 - 1/2	3K	**IMLLEDS25XP5BUH**	**IMLLEDS25XD5BUH**	**IMLLEDS25XG5BUH**
	1 - 1/2	4K	**IMLLEDS35XP5BUH**	**IMLLEDS35XD5BUH**	**IMLLEDS35XG5BUH**
	1 - 1/2	5K	**IMLLEDS45XP5BUH**	**IMLLEDS45XD5BUH**	**IMLLEDS45XG5BUH**
Wall — Five Hubs, Four Close-Up Plugs					
	3/4	3K	**IMLLEDW22XP5BUH**	**IMLLEDW22XD5BUH**	**IMLLEDW22XG5BUH**
	3/4	4K	**IMLLEDW32XP5BUH**	**IMLLEDW32XD5BUH**	**IMLLEDW32XG5BUH**
	3/4	5K	**IMLLEDW42XP5BUH**	**IMLLEDW42XD5BUH**	**IMLLEDW42XG5BUH**
	1	3K	**IMLLEDW23XP5BUH**	**IMLLEDW23XD5BUH**	**IMLLEDW23XG5BUH**
	1	4K	**IMLLEDW33XP5BUH**	**IMLLEDW33XD5BUH**	**IMLLEDW33XG5BUH**
	1	5K	**IMLLEDW43XP5BUH**	**IMLLEDW43XD5BUH**	**IMLLEDW43XG5BUH**
Trunnion — One Hub					
	3/4	3K	**IMLLEDT22XP5BUH**	**IMLLEDT22XD5BUH**	**IMLLEDT22XG5BUH**
	3/4	4K	**IMLLEDT32XP5BUH**	**IMLLEDT32XD5BUH**	**IMLLEDT32XG5BUH**
	3/4	5K	**IMLLEDT42XP5BUH**	**IMLLEDT42XD5BUH**	**IMLLEDT42XG5BUH**
	1	3K	**IMLLEDT23XP5BUH**	**IMLLEDT23XD5BUH**	**IMLLEDT23XG5BUH**
	1	4K	**IMLLEDT33XP5BUH**	**IMLLEDT33XD5BUH**	**IMLLEDT33XG5BUH**
	1	5K	**IMLLEDT43XP5BUH**	**IMLLEDT43XD5BUH**	**IMLLEDT43XG5BUH**

① ***X*** *= Color temperature;* ***C*** *= Cool, 5000K CCT,* ***N*** *= Neutral, 4000K CCT,* ***W*** *= Warm, 3000K CCT. Example: I****MLLEDW43WP5BUH.***
② *Guards are available for fixtures with glass or polycrbonate globe. See following pages for accessory ordering information.*

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Industrial Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

For Ordinary Locations

NEC/CEC:
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NEC/CEC:
Simultaneous Exposure
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Fixture Unit — Ballast Body and Globe

Lumen Level	LED Wattage	Light Level Equivalent	NEMA Type	Catalog Number ① With Type V Polycarbonate Globe ①②	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	**IMLLED2XP5BUH**	**IMLLED2XD5BUH**	**IMLLED2XG5BUH**
4K	40	100-150W HPS	Type V	**IMLLED3XP5BUH**	**IMLLED3XD5BUH**	**IMLLED3XG5BUH**
5K	49	150-175W HPS	Type V	**IMLLED4XP5BUH**	**IMLLED4XD5BUH**	**IMLLED4XG5BUH**

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: **IMLLED2CP5BUH.***
③ Guards are available for fixtures with glass globe. See following pages for accessory ordering information.
④ 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**

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)		**MLF5**

Replacement Drivers and Battery Management Module with Battery

	Voltage	Driver Wattage	Luminaire Model	Constant Current Settings	Catalog Number
	BU	50 Watt	IMLLED2	415mA	**APMS050C135UD41**
	BU	50 Watt	IMLLED3	550mA	**APMS050C135UD55**
	BU	50 Watt	IMLLED4	690mA	**APMS050C135UD69**

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- *Suitable for Use in Wet Locations*
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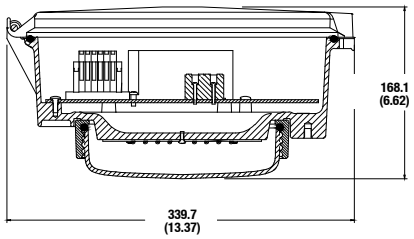
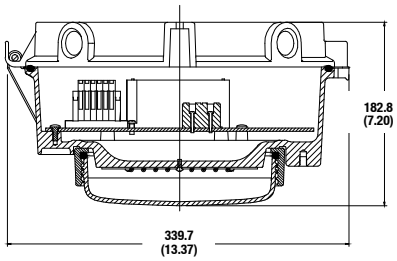
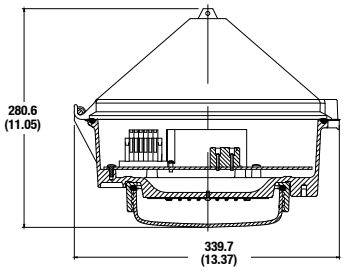
Dimensions in Millimeters (Inches)



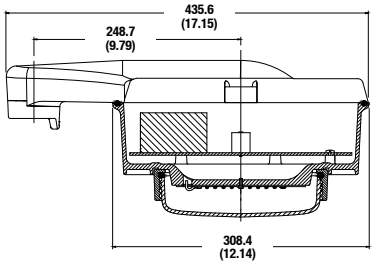
Pendant Mount



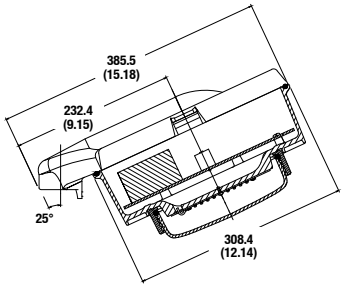
Ceiling Mount



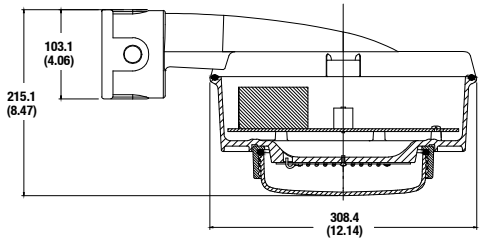
Pendant Cone Mount



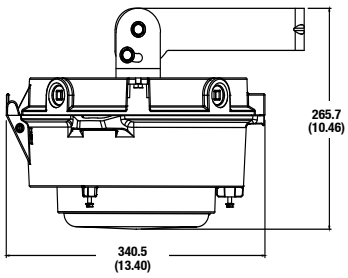
90° Stanchion Mount



25° Stanchion Mount



Wall Mount



Trunnion Mount

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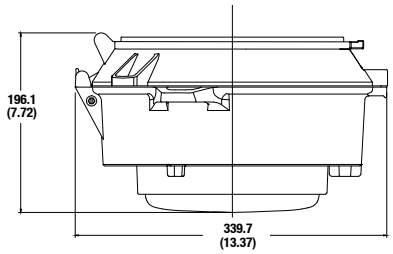
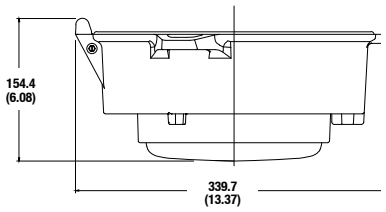
Dimensions in Millimeters (Inches)

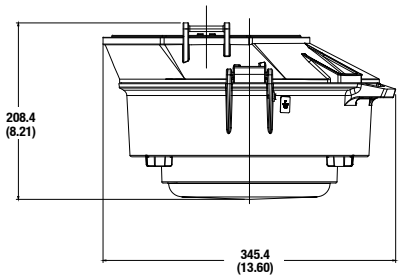
With Polycarbonate Globe



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)

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NEC/CEC:
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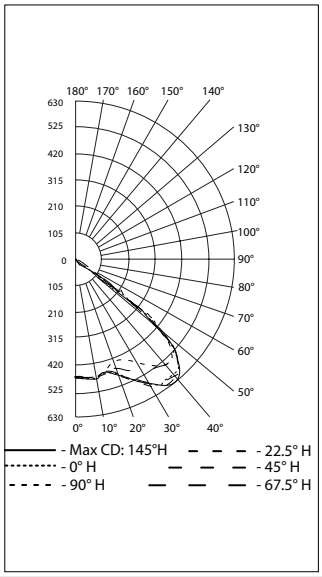
American Bureau of Shipping (ABS) Certified

Photometric Data — DATA SHOWN IS ABSOLUTE

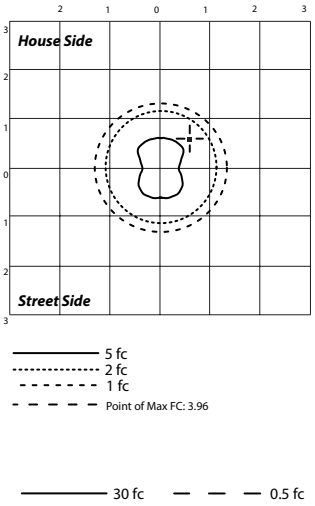
Type V, Clear Polycarbonate 5000K CCT
REPORT NUMBER: **IMLLED2CP5BUH+EMR**

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%

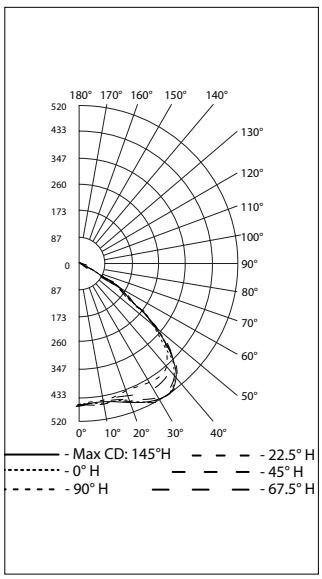
LUMENS PER ZONE

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%

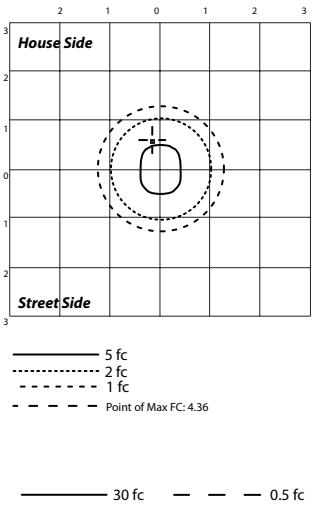
Type V, Diffused Polycarbonate 5000K CCT
REPORT NUMBER: **IMLLED2CD5BUH+EMR**

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%

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IP66/67

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

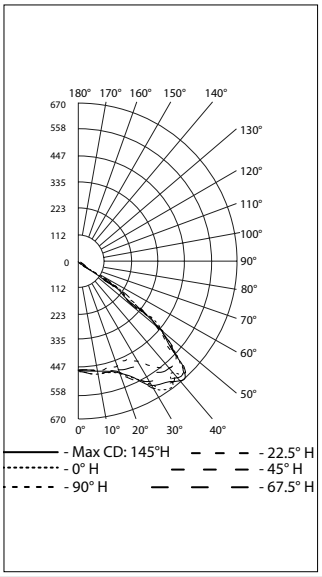
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Glass 5000K CCT

REPORT NUMBER: **IMLLED2CG5BUH+EMR**

Luminaire Lumens 1,460

POLAR CANDELA DISTRIBUTION



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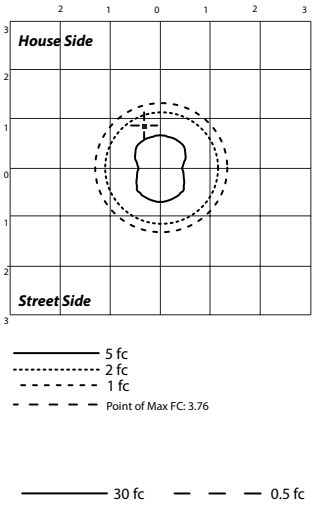


ZONAL LUMEN SUMMARY

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

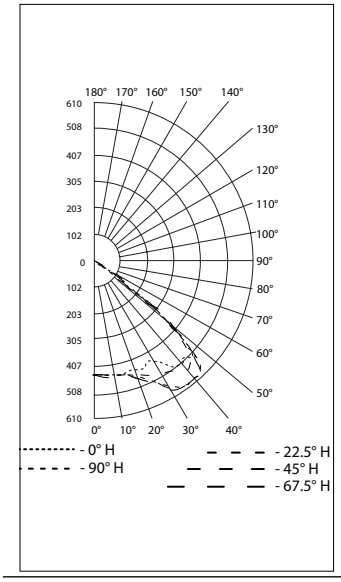
Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	44.3	3.0%	90-100	0.1	0%
10-20	133.9	9.2%	100-110	0	0%
20-30	242.0	16.6%	110-120	0	0%
30-40	372.6	25.5%	120-130	0	0%
40-50	444.7	30.5%	130-140	0	0%
50-60	205.9	14.1%	140-150	0	0%
60-70	13.8	0.9%	150-160	0	0%
70-80	2.1	0.1%	160-170	0	0%
80-90	0.8	0.1%	170-180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

Type V, Clear Polycarbonate 4000K CCT

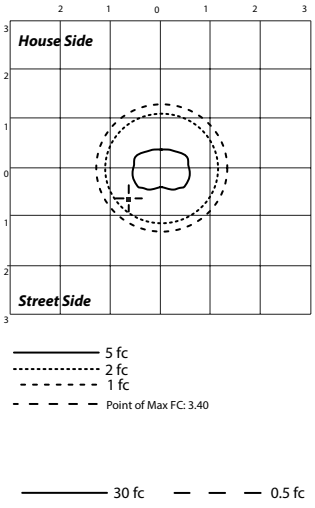
REPORT NUMBER: **IMLLED4NG5BUH+EMR**

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%

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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

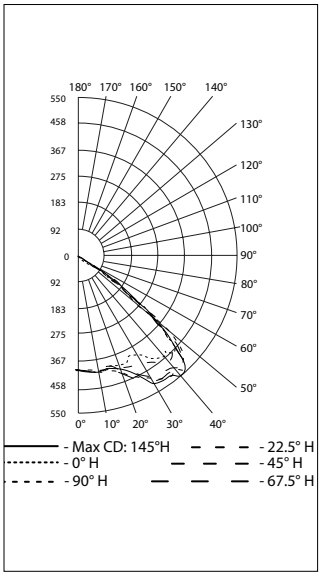
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Glass 4000K CCT

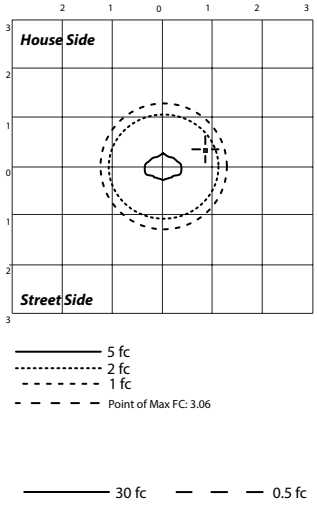
REPORT NUMBER: **IMLLED4WG5BUH+EMR**

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%

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