

Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

Enclosed and Gasketed Fixtures

NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 Class II, Division 1, Groups E,F,G
 Zone 21, Group IIC
 Class II, Division 2, Groups F,G
 Class III

NEC/GEC:
 Type 3R, 4, 4X
 IP66/IP67
 Simultaneous Exposure
 Suitable for Use in Wet Locations
 American Bureau of Shipping (ABS) Certified

Applications

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

Features

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

| Nominal Lumens ① | HID Equivalent | Model Number |
|------------------|----------------|--------------|
| 3300 | 70-100W | MLLED2 |
| 4400 | 100-150W | MLLED3 |
| 5500 | 150-175W | MLLED4 |

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

- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white.
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III, Mercmaster™ Premium LED and Mercmaster™ LED Generation 3.
- Customize to the application requirements with three different field replaceable globe options: clear and diffused polycarbonate and clear glass.
- Provides up to 1400 lumens illumination for 90 minutes of emergency lighting with clear lens or 800 lumens illumination for 180 minutes of emergency lighting.
- Functional diagnostic test self-initiates every 14 days after initial start up.
- Duration test is automatically performed once per year.
- Green and Red LED lamps indicate charging status and provide fault warning.
- Simple quick disconnect connector disconnects power between LEDs and battery management module to allow maintenance in hazardous locations.
- Compact light weight low profile design is suited for low mounting heights.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- Standard 6 kV surge protection.



- Ambient Temperature: BU: -20 °C to +55 °C (-4 °F to +131 °F)
- Standard screw-type terminal block can accept UL/CSA 26-10 AWG wire.
- Heavy duty, high temperature silicone rubber gaskets.
- LED L70 rated at 109,000 Hours @ +25 °C (+77 °C).
- Field replaceable globes, battery management module (BMM), battery pack and LED driver.
- Rugged housing with superior thermal design translates to long luminaire life.
- Retrofit adapters for Crouse Hinds™ hood available. See Mercmaster CH Adapters.

Options

- Glass globe guard available, purchase separately.

Standard Materials

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Glass and polycarbonate globe guard: stainless steel wire
- Reflector: fiberglass reinforced white polyester

Standard Finishes

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

NEC/CEC Certifications and Compliances

- UL Standard: UL 50E, Second Edition; UL 844, Thirteenth Edition; UL 1598, Third Edition; UL 1598A, First Edition; UL 8750, Second Edition; UL 924, Tenth Edition
- CSA Standard: C22.2 No 0-10; C22.2 No. 94.2-15; C22.2 No. E60598-1-16; C22.2 No. 137-18; C22.2 No. 250.0-08; C22.2 No. 250.13-14 ; C22.2 No. 141-15
- ANSI/IEC Standard: 60529
- cCSAus Listed: Master contract 164460
- Ambient Temperature: 120-277 Volts: -20 °C up to +55 °C (-4 °F up to +131 °F)

Related Products

- Mercmaster LED Mounting Adapters
- Mercmaster LED Low Profile Luminaires

DesignLights™ Consortium

- Check DLC QPL for current list of products.

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Illustrated Features

Heatsink

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

Reflectors and Visors

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



Driver Assembly

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



Mounting Hood and Globe Gaskets

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

Terminal Blocks

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

Stainless Steel Latch Assembly

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



Epoxy Finish

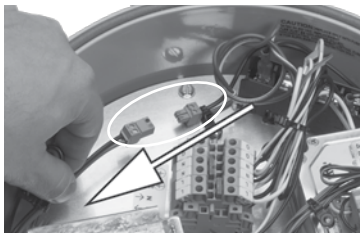
Fixture housing, hoods and guards are copperfree aluminum with triple protection epoxy powder coat finish.

Quick Disconnect

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

"Safety" Cable

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



LED/AREA: NEC/CEC EMERGENCY

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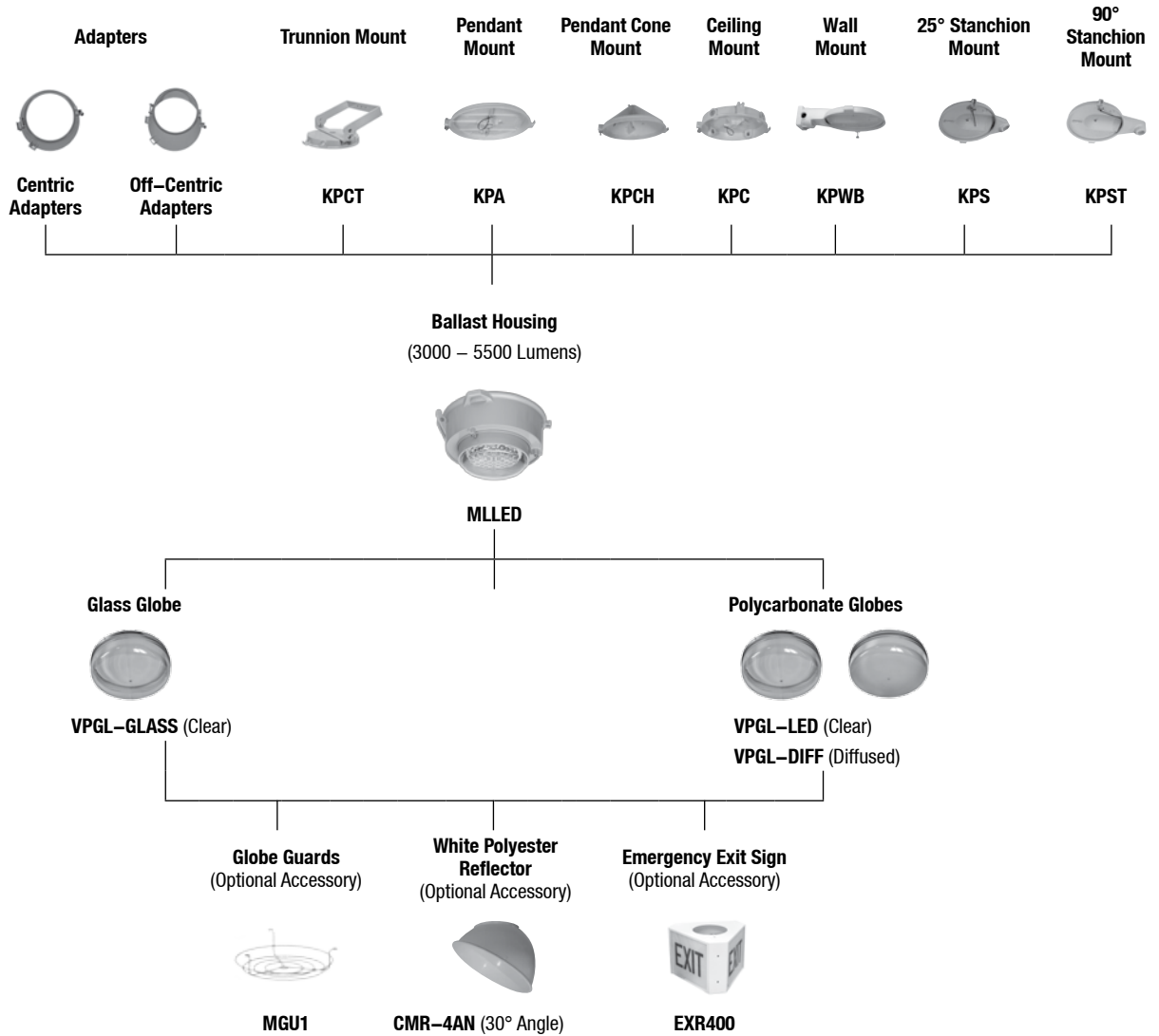
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Mercmaster™ LED Low Profile Family Tree



LED / AREA: NEC / CEC: EMERGENCY

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① Certified for cCSAus only.

Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

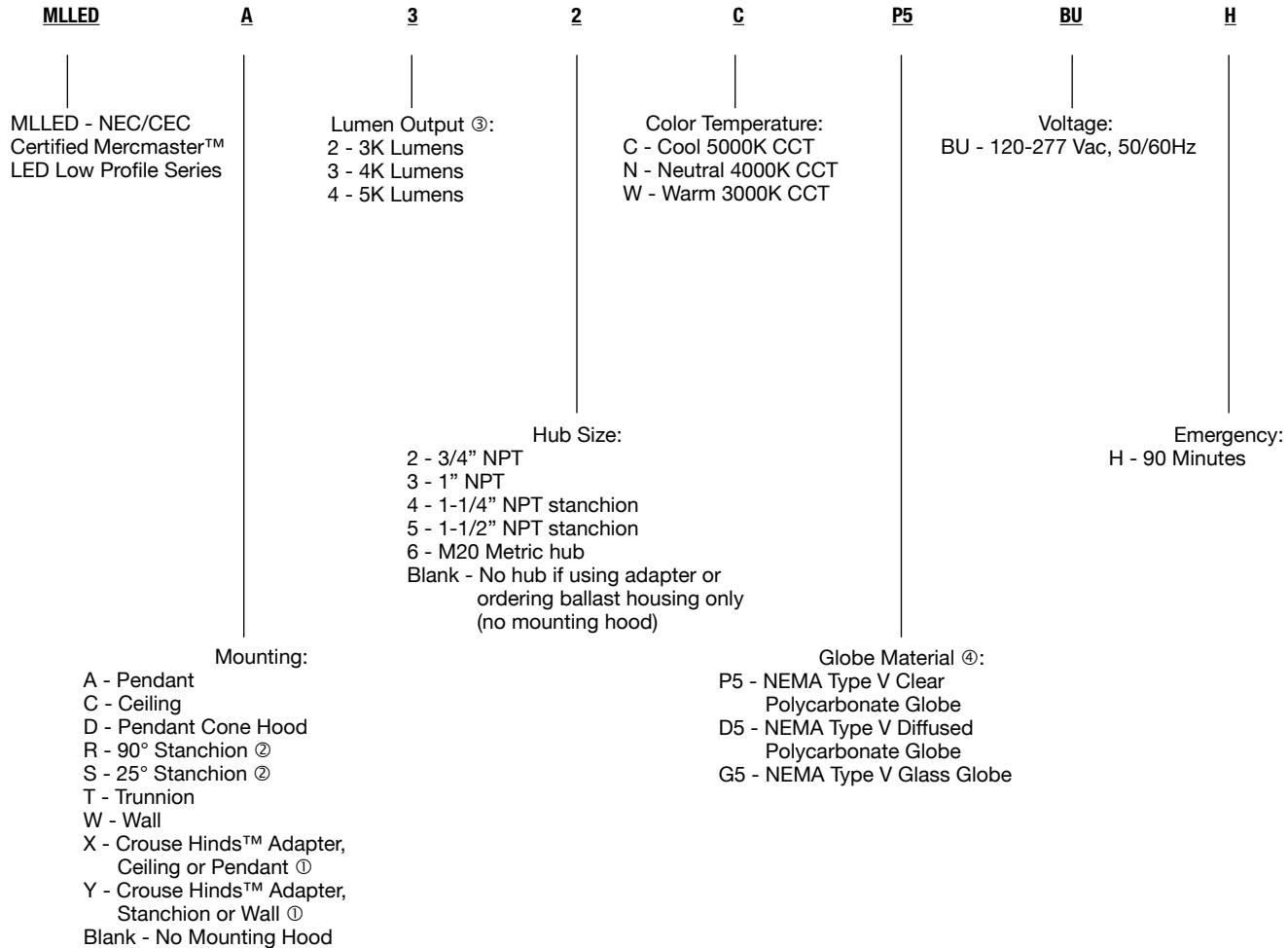
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Order using catalog numbering guides below or select catalog number from tables on following pages.

Catalog Numbering Guide For Hazardous Locations:



LED/AREA: NEC/CEC EMERGENCY

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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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Technical Data

| Lamp | | Ambient Temperature °C (°F) | Supply Wire Temperature °C (°F) | Class I, Division 2 ① | Gas Groups | NEC/CEC | | | Gas/Dust |
|--------|------|-----------------------------|---------------------------------|-----------------------|------------|---------------------------|--|---------------------|----------|
| Model | Type | | | | | Class I, Zone 2 Group IIC | Dust Class II, Division 1, Groups E, F and G ② | Zone 20, Group IIIC | |
| MLLED2 | LED | 40 (104) | 90 (194) | T5 | A, B, C, D | T5 | T6 | T6 | T4A |
| | LED | 55 (131) | 90 (194) | T5 | | T5 | T6 | T6 | T4A |
| MLLED3 | LED | 40 (104) | 90 (194) | T5 | | T5 | T6 | T6 | T5 |
| | LED | 55 (131) | 90 (194) | T5 | | T5 | T6 | T6 | T5 |
| MLLED4 | LED | 40 (104) | 90 (194) | T4A | | T4 | T6 | T6 | T4A |
| | LED | 55 (131) | 90 (194) | T4A | | T4 | T6 | T6 | T4A |

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

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

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

② T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 as designated by the NEC.

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Electrical Specification

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

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

LED/AREA: NEC/CEC EMERGENCY

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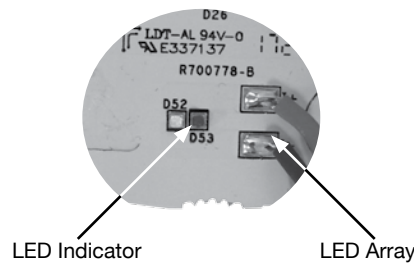
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| Automatic Testing System (ATS) | |
|---|--|
| Functional | Full Duration |
| Starts within 24 to 45 hours after the initial powerup of the module | Starts within 5 to 26 days after the initial power of the module |
| Occurs every 14 days after the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



| Color | LED Signals | |
|----------------------------------|--|--|
| | 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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| | Hub Size | Lumen Level | With Type V Polycarbonate Globe ① | With Type V Polycarbonate Diffused Globe ① | Glass Globe ① ② |
|--|----------|-------------|-----------------------------------|--|-----------------|
|--|----------|-------------|-----------------------------------|--|-----------------|

Pendant — One Hub



| | | | | |
|-----|----|----------------|----------------|----------------|
| 3/4 | 3K | MLLEDA22XP5BUH | MLLEDA22XD5BUH | MLLEDA22XG5BUH |
| 3/4 | 4K | MLLEDA32XP5BUH | MLLEDA32XD5BUH | MLLEDA32XG5BUH |
| 3/4 | 5K | MLLEDA42XP5BUH | MLLEDA42XD5BUH | MLLEDA42XG5BUH |
| 1 | 3K | MLLEDA23XP5BUH | MLLEDA23XD5BUH | MLLEDA23XG5BUH |
| 1 | 4K | MLLEDA33XP5BUH | MLLEDA33XD5BUH | MLLEDA33XG5BUH |
| 1 | 5K | MLLEDA43XP5BUH | MLLEDA43XD5BUH | MLLEDA43XG5BUH |

Ceiling — Five Hubs, Four Close-up Plugs



| | | | | |
|-----|----|----------------|----------------|----------------|
| 3/4 | 3K | MLLEDC22XP5BUH | MLLEDC22XD5BUH | MLLEDC22XG5BUH |
| 3/4 | 4K | MLLEDC32XP5BUH | MLLEDC32XD5BUH | MLLEDC32XG5BUH |
| 3/4 | 5K | MLLEDC42XP5BUH | MLLEDC42XD5BUH | MLLEDC42XG5BUH |
| 1 | 3K | MLLEDC23XP5BUH | MLLEDC23XD5BUH | MLLEDC23XG5BUH |
| 1 | 4K | MLLEDC33XP5BUH | MLLEDC33XD5BUH | MLLEDC33XG5BUH |
| 1 | 5K | MLLEDC43XP5BUH | MLLEDC43XD5BUH | MLLEDC43XG5BUH |

Pendant Cone — One Hub, Rigid Mounting



| | | | | |
|-----|----|----------------|----------------|----------------|
| 3/4 | 3K | MLLEDD22XP5BUH | MLLEDD22XD5BUH | MLLEDD22XG5BUH |
| 3/4 | 4K | MLLEDD32XP5BUH | MLLEDD32XD5BUH | MLLEDD32XG5BUH |
| 3/4 | 5K | MLLEDD42XP5BUH | MLLEDD42XD5BUH | MLLEDD42XG5BUH |
| 1 | 3K | MLLEDD23XP5BUH | MLLEDD23XD5BUH | MLLEDD23XG5BUH |
| 1 | 4K | MLLEDD33XP5BUH | MLLEDD33XD5BUH | MLLEDD33XG5BUH |
| 1 | 5K | MLLEDD43XP5BUH | MLLEDD43XD5BUH | MLLEDD43XG5BUH |

LED/AREA: NEC/CEC EMERGENCY

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





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

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| | Hub Size | Lumen Level | With Type V Polycarbonate Globe ① | With Type V Polycarbonate Diffused Globe ① | Glass Globe ①② |
|---|----------|-------------|-----------------------------------|--|----------------|
| 90° Stanchion — One Hub | | | | | |
|  | 1 - 1/4 | 3K | MLLEDR24XP5BUH | MLLEDR24XD5BUH | MLLEDR24XG5BUH |
| | 1 - 1/4 | 4K | MLLEDR34XP5BUH | MLLEDR34XD5BUH | MLLEDR34XG5BUH |
| | 1 - 1/4 | 5K | MLLEDR44XP5BUH | MLLEDR44XD5BUH | MLLEDR44XG5BUH |
| | 1 - 1/2 | 3K | MLLEDR25XP5BUH | MLLEDR25XD5BUH | MLLEDR25XG5BUH |
| | 1 - 1/2 | 4K | MLLEDR35XP5BUH | MLLEDR35XD5BUH | MLLEDR35XG5BUH |
| | 1 - 1/2 | 5K | MLLEDR45XP5BUH | MLLEDR45XD5BUH | MLLEDR45XG5BUH |
| 25° Stanchion — One Hub | | | | | |
|  | 1 - 1/4 | 3K | MLLEDS24XP5BUH | MLLEDS24XD5BUH | MLLEDS24XG5BUH |
| | 1 - 1/4 | 4K | MLLEDS34XP5BUH | MLLEDS34XD5BUH | MLLEDS34XG5BUH |
| | 1 - 1/4 | 5K | MLLEDS44XP5BUH | MLLEDS44XD5BUH | MLLEDS44XG5BUH |
| | 1 - 1/2 | 3K | MLLEDS25XP5BUH | MLLEDS25XD5BUH | MLLEDS25XG5BUH |
| | 1 - 1/2 | 4K | MLLEDS35XP5BUH | MLLEDS35XD5BUH | MLLEDS35XG5BUH |
| | 1 - 1/2 | 5K | MLLEDS45XP5BUH | MLLEDS45XD5BUH | MLLEDS45XG5BUH |
| Wall — Five Hubs, Four Close-Up Plugs | | | | | |
|  | 3/4 | 3K | MLLEDW22XP5BUH | MLLEDW22XD5BUH | MLLEDW22XG5BUH |
| | 3/4 | 4K | MLLEDW32XP5BUH | MLLEDW32XD5BUH | MLLEDW32XG5BUH |
| | 3/4 | 5K | MLLEDW42XP5BUH | MLLEDW42XD5BUH | MLLEDW42XG5BUH |
| | 1 | 3K | MLLEDW23XP5BUH | MLLEDW23XD5BUH | MLLEDW23XG5BUH |
| | 1 | 4K | MLLEDW33XP5BUH | MLLEDW33XD5BUH | MLLEDW33XG5BUH |
| | 1 | 5K | MLLEDW43XP5BUH | MLLEDW43XD5BUH | MLLEDW43XG5BUH |
| Trunnion — One Hub | | | | | |
|  | 3/4 | 3K | MLLEDT22XP5BUH | MLLEDT22XD5BUH | MLLEDT22XG5BUH |
| | 3/4 | 4K | MLLEDT32XP5BUH | MLLEDT32XD5BUH | MLLEDT32XG5BUH |
| | 3/4 | 5K | MLLEDT42XP5BUH | MLLEDT42XD5BUH | MLLEDT42XG5BUH |
| | 1 | 3K | MLLEDT23XP5BUH | MLLEDT23XD5BUH | MLLEDT23XG5BUH |
| | 1 | 4K | MLLEDT33XP5BUH | MLLEDT33XD5BUH | MLLEDT33XG5BUH |
| | 1 | 5K | MLLEDT43XP5BUH | MLLEDT43XD5BUH | MLLEDT43XG5BUH |

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

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Fixture Unit — Ballast Body and Globe



| Lumen Level | LED Wattage | Light Level Equivalent | NEMA Type | 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 Hazardous Locations | | | | | | |
| 3K | 28 | 70-100W HPS | Type V | MLLED2XP5BUH | MLLED2XD5BUH | MLLED2XG5BUH |
| 4K | 38 | 100-150W HPS | Type V | MLLED3XP5BUH | MLLED3XD5BUH | MLLED3XG5BUH |
| 5K | 48 | 150-175W HPS | Type V | MLLED4XP5BUH | MLLED4XD5BUH | MLLED4XG5BUH |

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 |
| Trunion  | Five Hubs, Four Close-Up Plugs | 3/4 | KPCT-75 |
| | | 1 | KPCT-100 |
| Ceiling  | Five Hubs, Four Close-Up Plugs | 3/4 | KPC-75 |
| | | 1 | KPC-100 |
| | | M20 | KPC-M20 |
| Wall  | Five Hubs, Four Close-Up Plugs | 3/4 | KPWB-75 |
| | | 1 | KPWB-100 |
| | | M20 | KPWB-M20 |
| 25° Stanchion  | One Hub | 1-1/4 | KPS-125 |
| | | 1-1/2 | KPS-150 |
| 90° Stanchion  | One Hub | 1-1/4 | KPST-125 |
| | | 1-1/2 | KPST-150 |

① For 120-277 Vac, use suffix **-BU**.

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

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

④ Must be ordered separately.

LED/AREA: NEC/CEC EMERGENCY

APPLETON™




Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

Enclosed and Gasketed Fixtures





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

NEC/CEC:
 Type 3R, 4, 4X
 IP66/IP67
 Simultaneous Exposure
 Suitable for Use in Wet Locations
 American Bureau of Shipping (ABS) Certified

Replacement Parts

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

Accessories

| | Description | Catalog Number |
|--|---------------------|----------------|
| White Polyester Reflectors | | |
|  30° Angle | 30° Angle | CMR-4AN |
| Exit Sign | | |
|  | Emergency Exit sign | EXR-400 |
| Guards | | |
|  Glass Globe Guard | Glass Globe Guard | MGU1 |
| Safety Cable | | |
|  | Stainless steel. | LEDSC |

Replacement Battery Pack

BPMLLED


Replacement Battery Management Module

BMMLLED

Replacement Fuse (Emergency system)

MLF3

Replacement Drivers and Battery Management Module with Battery

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

LED / AREA: NEC/CEC EMERGENCY

APPLETON™

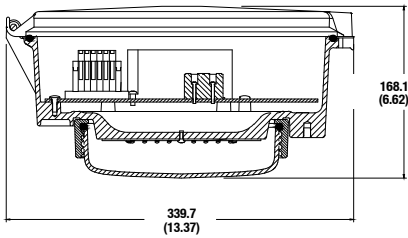
Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

Enclosed and Gasketed Fixtures

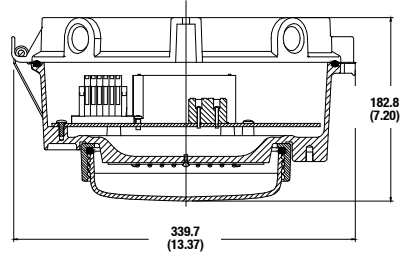
NEC/CEC:
 Class I, Division 2, Groups A,B,C,D
 Class I, Zone 2, Group IIC
 Class II, Division 1, Groups E,F,G
 Zone 21, Group IIC
 Class II, Division 2, Groups F,G
 Class III

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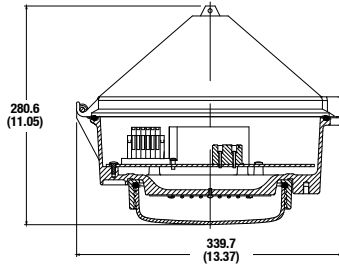
Dimensions in Millimeters (Inches)



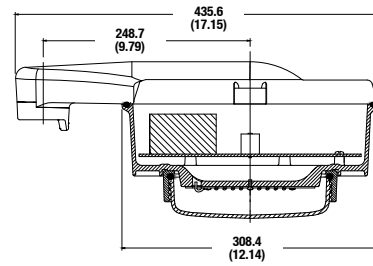
Pendant Mount



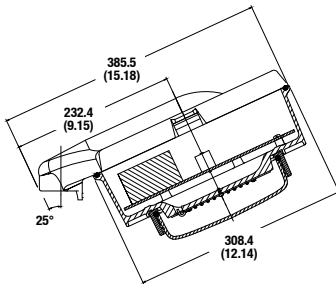
Ceiling Mount



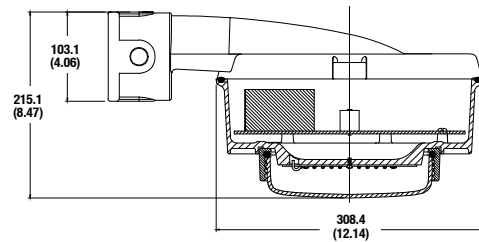
Pendant Cone Mount



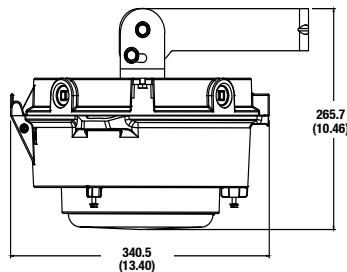
90° Stanchion Mount



25° Stanchion Mount



Wall Mount



Trunnion Mount

LED / AREA: NEC / CEC EMERGENCY

APPLETON™

Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

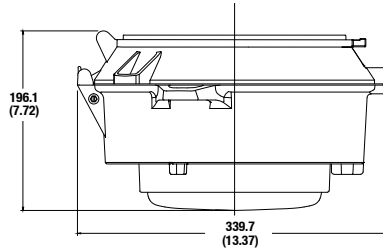
Enclosed and Gasketed Fixtures

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 Class I, Zone 2, Group IIC
 Class II, Division 1, Groups E,F,G
 Zone 21, Group IIIC
 Class II, Division 2, Groups F,G
 Class III

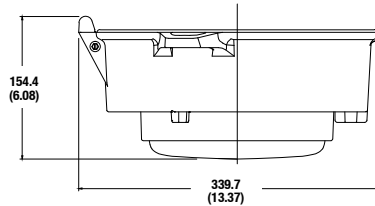
NEC/CEC:
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 Simultaneous Exposure
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 American Bureau of Shipping (ABS) Certified

Dimensions in Millimeters (Inches)

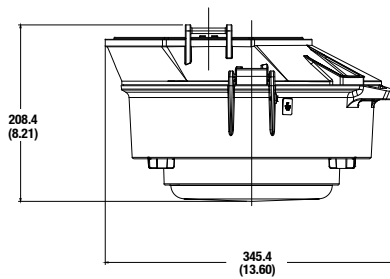
With Polycarbonate Globe



CH-Adapter-Centric



Driver Housing



CH-Adapter Off-Centric

Mercmaster LED Low Profile Fixture and Mounting Hood Weights

| Description | Weight kg (lb) |
|-----------------------------|----------------|
| Fixture Unit | 5.8 (13.80) |
| Pendant Mounting Hood | 1.0 (2.25) |
| Pendant Cone Mounting Hood | 1.1 (2.50) |
| Ceiling Mounting Hood | 1.4 (3.00) |
| Wall Mounting Hood | 1.8 (4.00) |
| 25° Stanchion Mounting Hood | 1.5 (3.25) |
| 90° Stanchion Mounting Hood | 1.7 (3.75) |
| CH-Adapter-Centric | 0.9 (2.00) |
| CH-Adapter-Off-Centric | 0.9 (2.00) |

LED / AREA: NEC / CEC: EMERGENCY

APPLETON™

Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

Enclosed and Gasketed Fixtures

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

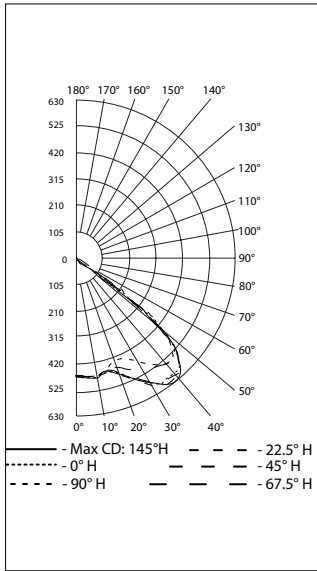
NEC/CEC:
 Type 3R, 4, 4X
 IP66/IP67
 Simultaneous Exposure
 Suitable for Use in Wet Locations
 Marine Outside Type (Salt Water) For USA
 ONLY ⚡
 American Bureau of Shipping (ABS) Certified

Photometric Data — DATA SHOWN IS ABSOLUTE

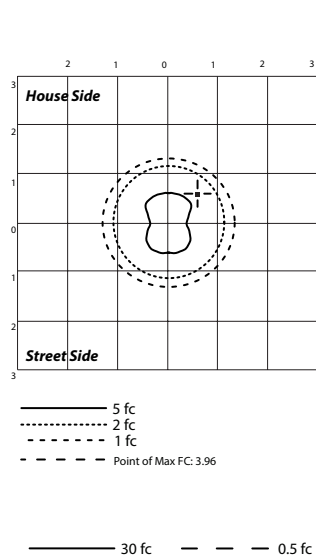
Type V, Clear Polycarbonate 5000K CCT
 REPORT NUMBER: MLLED2CP5BUH+EMR

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% |

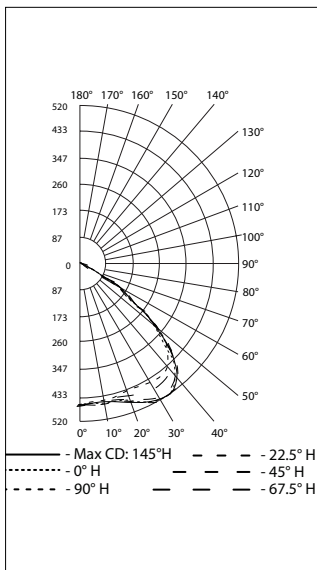
LUMENS PER ZONE

| 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% |

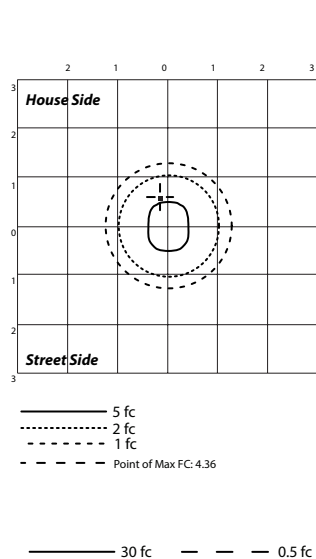
Type V, Diffused Polycarbonate 5000K CCT
 REPORT NUMBER: MLLED2CD5BUH+EMR

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% |

LED/AREA: NEC/CEC EMERGENCY

APPLETON™

Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

Enclosed and Gasketed Fixtures

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

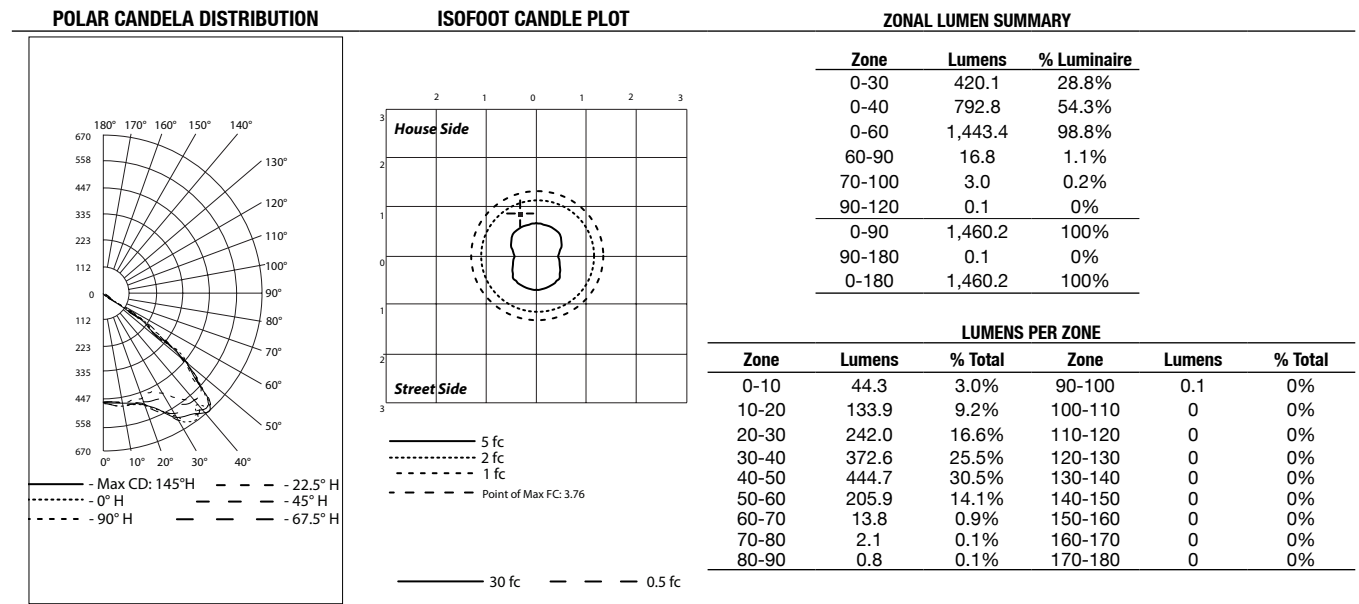
NEC/CEC:
 Type 3R, 4, 4X
 IP66/IP67
 Simultaneous Exposure
 Suitable for Use in Wet Locations
 Marine Outside Type (Salt Water) For USA
 ONLY %
 American Bureau of Shipping (ABS) Certified

Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Glass 5000K CCT

REPORT NUMBER: MLLED2CG5BUH+EMR

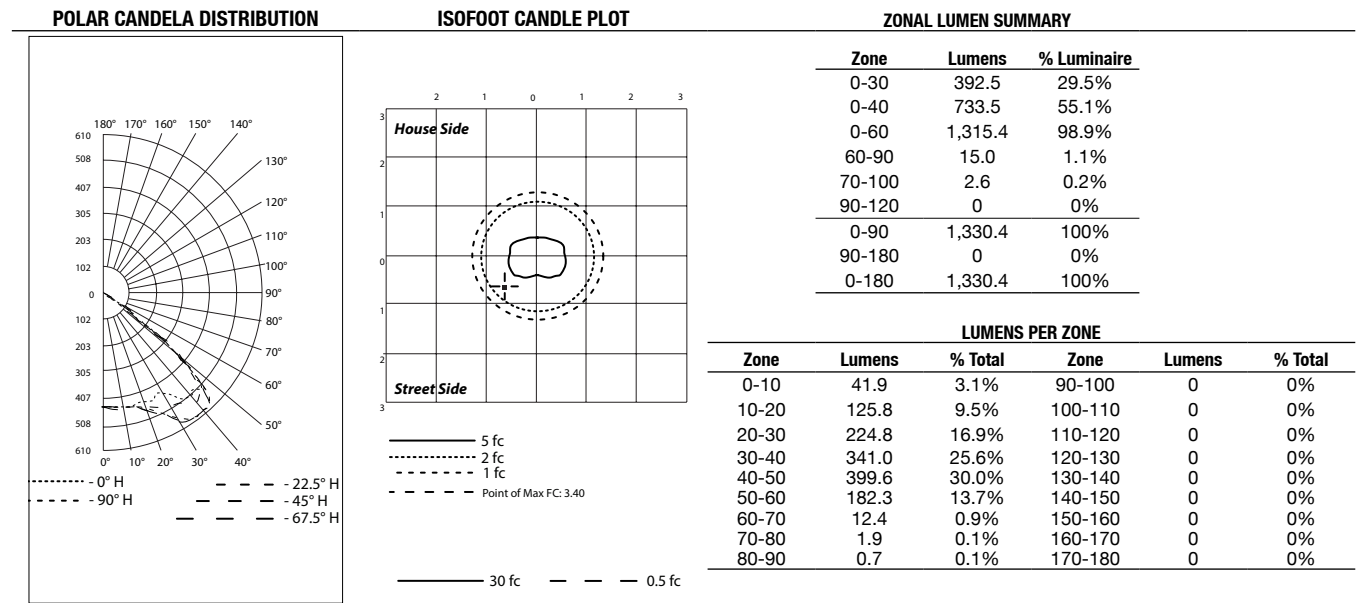
Luminaire Lumens 1,460



Type V, Clear Polycarbonate 4000K CCT

REPORT NUMBER: MLLED4NG5BUH+EMR

Luminaire Lumens 1,330



Mercmaster™ LED Low Profile Luminaires with Emergency Battery Backup

Enclosed and Gasketed Fixtures

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

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

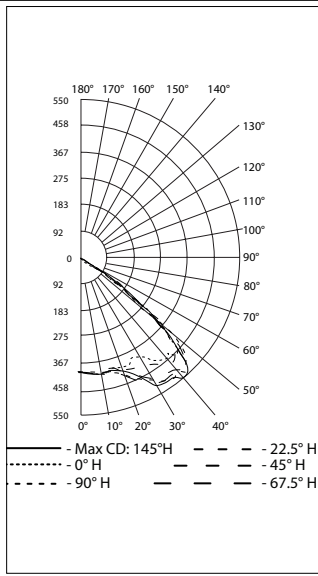
Photometric Data – DATA SHOWN IS ABSOLUTE

Type V, Clear Glass 4000K CCT

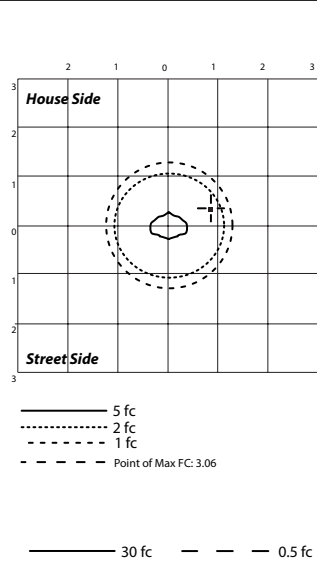
REPORT NUMBER: MLLED4WG5BUH+EMR

Luminaire Lumens 1,207

POLAR CANDELA DISTRIBUTION



ISOFOOT CANDLE PLOT



ZONAL LUMEN SUMMARY

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

LUMENS PER ZONE

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

LED / AREA: NEC / CEC EMERGENCY

APPLETON™