 **Appleton**

# MERCMASTER LED: THE CHOICE FOR A SMART FUTURE.

No LED industrial fixture surpasses the Appleton Mercmaster LED in efficiency, performance and advanced engineering. In day-to-day use, installation and maintenance, the Appleton Mercmaster LED's superior design simply shines.

In areas requiring better visibility and instant-on illumination, the complete range of Mercmaster LEDs provide a low maintenance, energy efficient solution. Whether low temperatures or retrofit applications Appleton has the answer.

## FEATURES

- 5 LED array choices for light levels equivalent to 70 W HPS/PSMH, 100 W HPS/PSMH, 150 W HPS/PSMH, 175 W PSMH and 250 W HPS/PSMH.
- Luminaires rated for NEC/CEC environments (ATEX/IECEX pending).
- Upgraded LED array provides higher efficacies.
- 700mA drive current.
- Ambient temperatures:
  - 70W equivalent: -40 °C to 65 °C (-40 °F to 149 °F)
  - 100W to 175W equivalent: -40 °C to 55 °C (-40 °F to 131 °F)
  - 250W equivalent: -40 °C to 50 °C (-40 °F to 122 °F)
- Electrical: 120-277 Vac, 50/60 Hz  
347-480 Vac, 50/60 Hz
- Supplied with terminals to allow for easier wiring.
- Resistant to low temperatures; the lumen output does not decrease.
- Compact lightweight low profile design, well suited for low mounting heights.
- Utilizes the same electrical wiring for HID fixtures with lower electrical ratings.
- Fixture housing and mounting hoods are copperfree cast aluminum for better heat dissipation. All exposed hardware is stainless steel.
- Heatsink designed to keep dust and debris from accumulating on the fixture, while maintaining rounded edges to reduce risk of injury during installation and maintenance.
- High hinge design increases safety during installation and servicing, assuring 360° compression on ballast housing gasket.
- Silicone rubber gasket seals out moisture, dirt and dust; stays flexible and withstands high temperatures.
- High impact-resistant polycarbonate lens is threaded for easy removal.
- Epoxy powder coat finish and stainless steel latch assembly are corrosion resistant.
- Dark Sky Compliant: meets specifications for low glare, focused beam and avoidance of overlighting.

## WHY IS LED THE FUTURE?

It's not just about efficiency. LED lighting delivers real productivity benefits.

- Resistant to vibrations and shock.
- Directional light can improve efficiency, productivity and safety.
- Cold start capable to -40 °C and instant-on (<100ns).
- Uses no mercury and its beam gives off no heat.
- Promises long life, 60,000+ hours.
- Delivers reduced maintenance costs.

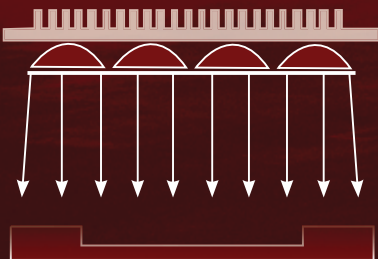
And perhaps most importantly, it's green – offering an energy reduction up to 68% for similar luminosities compared to the PSMH (Pulse Start Metal Halide) you may be using today. Because of its all-around benefits, LED will soon be the prevalent lamp technology in manufacturing settings worldwide. Your future can start now.

## LED vs. HID: THE FUTURE OF EFFICACY.

**BULB:** HID lamps emit light in every direction; this light is controlled using a reflector or refractor. The result is poor utilization efficiencies.



**LED:** LED directs the light to where it's needed without the use of external optics.





# EASIER INSTALLATION, EASIER MAINTENANCE, EASIER TO BE GREEN – EVERYWHERE.

The Appleton Mercmaster LED excels in a varied range of demanding locations.

## APPLICATIONS

LED fixtures suitable for use in:

- Marine and wet locations.
- A wide range of industrial, chemical processing and other areas where flammable gases and vapors are present.
- Areas of low clearance, low ceiling heights or where fixture weights must be minimized.
- Hazardous locations where severe weather conditions, excessive moisture, dirt, dust, corrosive atmosphere or high ambient temperatures are encountered.

## MOUNTING HOODS

- Six different types of mounting hoods accommodate any application requirement.
- Utilizes the same mounting hoods as the Mercmaster III Series.
- Easily accommodates retrofitting.



Pendant



Wall



Pendant Cone



25° Stanchion



Ceiling



90° Stanchion

## LED TESTING COMPLIANCES

### IES LM-79-08 “Electrical and Photometric Measurements of Solid-State Lighting Products”

An IES approved method describes the procedures to be followed in performing reproducible measurements of the following:

- Total luminous flux (fixture lumens)
- Luminous efficacy (lm/watt)
- Luminous intensity and distribution (candelas)
- Color Characteristics
  - Chromaticity - Quality of color, independent of brightness
  - CCT - Correlated Color Temp (k)
  - CRI - Color Rendering Index

*The Result: Solid-State Lighting Photometric reports (Absolute).*

### LM-80-08 “Measuring Lumen Maintenance of LED Light Sources”

An IES approved method covers the measurement of lumen maintenance and procedures by which LED light sources can be operated.

- Operating for at least 6,000 hours at representative operating temperatures
- Photometric data collected at a minimum of every 1,000 hours
- Chromaticity, color temperature, color rendering

*The Result: Photometric reports for long term lumen maintenance.*

### IES TM-21 – “Projecting Long Term Lumen Maintenance of LED Light Sources”

Provides recommendations for projecting long term lumen maintenance of LED light sources using data obtained per IES LM-80-08.

*The Result: To project lumen degradation or LED’s operating life in accordance to LM-80.*

## CERTIFICATIONS AND COMPLIANCES

### NEC/CEC

- Class I, Division 2, Groups A, B, C, D
- Class I, Zone 2, Group IIC
- Class II, Division 1, Group E, F, G
- Class II, Division 2, Group F, G
- Class III
- Type 3R, 4X
- IP66
- Suitable for Use in Wet Locations
- Marine Outside Type (Salt Water)

- UL Standard: UL 1598, UL 1598A, UL 8750, UL 844
- CSA Standard: C22.2 No. 250.0, C22.2 No. 137
- cCSAus

### IEC/ATEX — Pending

- Zone 2 and 22
- II 3 GD
- IP66
- Ex Standards: IEC 60079-0; 60079-15; 60079-31

## CATALOG NUMBERING GUIDE

<p>MLEDN</p> <p>↓</p> <p>Mercmaster LED Series:</p> <p>MLEDN - NEC/CEC</p> <p>MLEDNA - ATEX/IECE<sup>x</sup> ①</p>	<p>A</p> <p>↓</p> <p>Mounting:</p> <p>A - Pendant</p> <p>C - Ceiling</p> <p>D - Pendant Cone</p> <p>R - 90° Stanchion</p> <p>S - 25° Stanchion</p> <p>W - Wall</p>	<p>17</p> <p>↓</p> <p>Light Level Equivalent:</p> <p>70 - 70 W HPS</p> <p>10 - 100 W HPS</p> <p>15 - 150 W HPS</p> <p>17 - 175 W PSMH</p> <p>25 - 250 W HPS/PSMH</p>	<p>2</p> <p>↓</p> <p>Hub Size:</p> <p>2 - 3/4" NPT</p> <p>3 - 1" NPT</p> <p>4 - 1-1/4" NPT stanchion</p> <p>5 - 1-1/2" NPT stanchion</p> <p>6 - Metric M20</p>	<p>P</p> <p>↓</p> <p>Optical Assembly:</p> <p>P - Polycarbonate Globe</p>	<p>5</p> <p>↓</p> <p>Light Distribution:</p> <p>5 - NEMA Type 5 Symmetrical</p>	<p>BU</p> <p>↓</p> <p>Voltage:</p> <p>BU - Universal Voltages</p> <p>120-277 Vac, 50/60 Hz</p> <p>BH - 347-480 Vac, 50/60 Hz</p>	<p>H1</p> <p>↓</p> <p>Options:</p> <p>F - Fusing ②</p> <p>For NEC/CEC Only:</p> <p>H1 - Photocontrol 120 V</p> <p>H2 - Photocontrol 208 V</p> <p>H3 - Photocontrol 240 V</p> <p>H4 - Photocontrol 277 V</p>
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① Certification for ATEX/IECE<sup>x</sup> pending.

② Canadian Electrical Code does NOT allow fusing in hazardous locations. Fuse not CEC rated.

- Heatsink enables reliable heat transfer via the diecast, aluminum body

- Protective, high impact resistant polycarbonate lens allows for easy maintenance access

- 30 LEDs in internal array direct light to where it is needed without the use of external optics



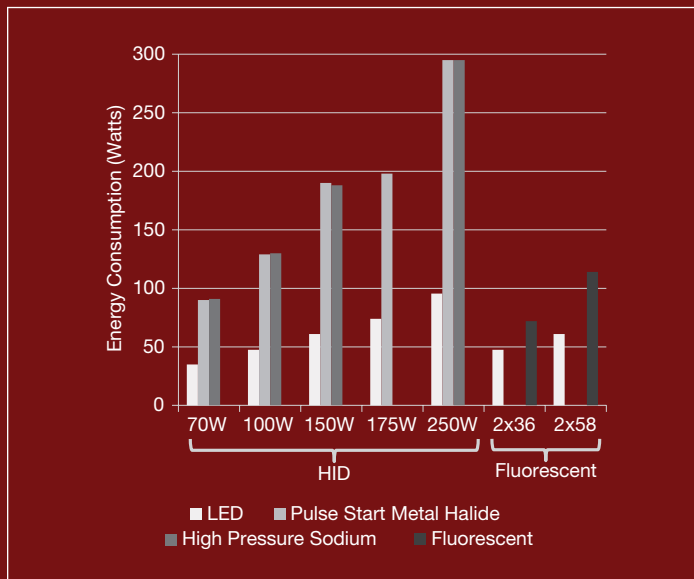
## TECHNICAL DATA

	MLEDN70	MLEDN10	MLEDN15	MLEDN17	MLEDN25
Equivalent to HPS/PSMH	70 Watt	100 Watt	150 Watt	175 Watt	250 Watt
Voltage Range	120 - 277 Vac, 50/60 Hz, 347 - 480 Vac, 50/60 Hz				
LED Lumen	2300	3450	4850	6075	9455
Input Power	35 / 33	47.5 / 46	61 / 62	74 / 72	95.5 / 92
Efficacy	66	73	80	82	99
Ambient Temperature / T Rating	-40 °C / T4A 55 °C / T4 65 °C / T3C	-40 °C / T4A 55 °C / T4 65 °C / T3C	-40 °C / T4A 55 °C / T4	-40 °C / T4A 55 °C / T4	-40 °C / T4A 50 °C / T4
CCT/CRI	5650K / 70				
Typical Mounting Height	Maximum 9 ft	8 to 12 ft	12 to 14 ft	Maximum 14 ft	18 to 25 ft
Standard Materials	Housing – Copperfree cast aluminium Finish – Baked gray epoxy powder coat, electrostatically applied Lens – Polycarbonate				
Fixture Weight	10.6 lbs/4.8 kgs				

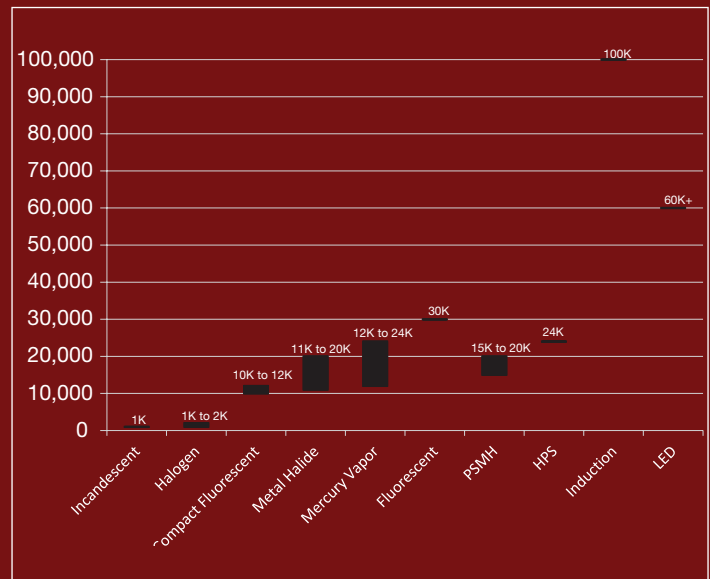
## INDUCTION/HID/LED LAMP COMPARISON

	85 W QL	165 W QL	100 W HPS	175 W PSMH	LED (70 W PSMH output)	LED (100 W PSMH output)	LED (150 W PSMH output)	LED (175 W PSMH output)	LED (250 W PSMH output)
System Watts	85	165	130	208	35	47.5	61	74	95.5
CRI	85	80	22	62	70	70	70	70	70
Ignition	0.1 sec	0.1 sec	5 sec	10 sec	Instant	Instant	Instant	Instant	Instant
Warm Up	5 sec	5 sec	3 - 4 min	1.5 min	Instant	Instant	Instant	Instant	Instant
Restrike	0.1 sec	0.1 sec	1 min	1 min	Instant	Instant	Instant	Instant	Instant
Life	100k	100k	24k+	15k	60k+	60k+	60k+	60k+	60k+

## ENERGY CONSUMPTION COMPARISON



## LIGHT SOURCE LAMP LIFE COMPARISON



Appleton is our premium line of industrial electrical products under EGS Electrical Group, a division of Emerson Industrial Automation.

Emerson Industrial Automation brings integrated manufacturing solutions to diverse industries worldwide. Our comprehensive product line, extensive experience, world-class engineering and global presence enable us to implement solutions that give our customers the competitive edge.

For over 150 years, our electrical product brands have been providing a rich tradition of long-term, practical, high quality solutions with applications ranging from the construction and safe operation of petrochemical and process plants to providing quality power that precisely controls automotive robotic production.

Engineers, distributors, contractors, electricians and site maintenance professionals around the world trust Emerson Industrial Automation brands to make electrical installations safer, more productive and more reliable.

EGS is organized into three focused businesses that provide distributors and end-users expert knowledge and excellent service.

#### Electrical Construction Materials

This group manufactures a broad range of electrical products including conduit and cable fittings, plugs and receptacles, enclosures and controls, conduit bodies, and industrial lighting. Whether the application is hazardous location, industrial, or commercial, the ECM group has the products to meet your needs.

#### Power Quality Solutions

This group offers the broadest power quality line including UPS, power conditioners, voltage regulators, shielded transformers, surge suppression devices and power supplies.

#### Heating Cable Systems

This group offers a broad range of electrical heating cable products for residential, commercial, and industrial applications.

#### Electrical Construction Materials

 **Appleton**<sup>®</sup>

**OZGEDNEY**

 **Nutsteel**<sup>®</sup>

Power Quality Solutions

**SOLARHD**

Heating Cable Systems

**EASYHEAT**<sup>®</sup>

**NELSON**



# Mercmaster™ LED Series Luminaires

## Enclosed and Gasketed Fixtures

### NEC/CEC

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Group IIC  
Class II, Division 1, Group E, F, G  
Class II, Division 2, Group F, G  
Class III

### NEC/CEC

Simultaneous Exposure  
Type 3R, 4X  
IP66  
Suitable for Use in Wet Locations  
Marine Outside Type (Salt Water)

### Applications

- Enclosed and gasketed fixtures suitable for use in:
  - Marine and wet locations
  - A wide range of industrial, chemical processing and other areas where flammable gases and vapors are present
  - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
  - Non-hazardous locations where severe weather conditions, excessive moisture, dirt, dust, corrosive atmosphere or high ambient temperatures are encountered
- Typical applications include:
  - Pulp and paper mills
  - Processing plants
  - Chemical plants
  - Oil refineries
  - Foundries
  - Manufacturing plants
  - Storage areas
  - Waste and sewage treatment
  - Parking garages
  - Other areas where dust, water, dirt and rough usage are a problem

### Features

- Compact light-weight low profile design is suited for low mounting heights.
- Modular design allows scores of fixture component combinations to meet installation needs. Uses same mounting hoods as Mercmaster III.
- Fixture housing and mounting hoods are copperfree cast aluminium with baked epoxy finish. All exposed hardware is stainless steel.
- Accommodates a wide range of voltages.
- Ambient temperatures:
  - 70W equivalent: -40 °F to 149 °F/-40 °C to 65 °C
  - 100W to 175W equivalent: -40 °F to 131 °F/-40 °C to 55 °C
  - 250W equivalent: -40 °F to 122 °F/-40 °C to 50 °C
- Electrical: 120-277 Vac, 50/60 Hz; 347-480 Vac, 50/60 Hz
- Pole terminal block: 1 x 8-24 AWG; 1 x 0.75 to 6 mm<sup>2</sup>.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on ballast housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- All Mercmaster mounting hoods have provision for easy field installation of fuses (see *Fixture Unit — Electrical Specification*).
- NPT and metric threads standard.

### Standard Materials

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminium
- All hardware and catch assemblies: stainless steel
- Globes: polycarbonate

### Standard Finishes

- Mounting hoods, bodies and guards: baked gray epoxy-clad finish, electrostatically applied for complete uniform protection

### Certifications and Compliances

- NEC/CEC
  - UL Standard: UL 1598, UL 1598A, UL 8750, UL 844
  - CSA Standard: C22.2 No. 250.0, C22.2 No. 137
  - cCSAus



### Pending Certifications and Compliances

- ATEX
  - Gas: Zone 2
    - Conforming to ATEX 94/9/CE: CE 0081 II 3 G
    - ATEX Protection: Ex nA II
    - T Rating:
      - 70W and 100W equivalent: T4 (+104 °F/+40 °C), T4 (131 °F/55 °C), T3 (149 °F/65 °C)
      - 150W to 175W equivalent: T4 (+104 °F/+40 °C), T4 (131 °F/55 °C)
      - 250W equivalent: T4 (+104 °F/+40 °C), T4 (122 °F/50 °C)
  - Dust: Zone 22
    - Conforming to ATEX 94/9/CE: CE 0081 II 3 D
    - ATEX Protection: Ex t IIIC
    - Surface Temperature: T197.6 °F/T92 °C Dc
    - Ambient Temperature:
      - 70W and 100W equivalent: -40 °F to 149 °F/-40 °C to 65 °C
      - 150W to 175W equivalent: -40 °F to 131 °F/-40 °C to 55 °C
      - 250W equivalent: -40 °F to 122 °F/-40 °C to 50 °C
    - ATEX Certificate: LCIE II ATEX 1008
    - Index of Protection: IP66
- IECEX
  - Gas: Zone 2
    - IEC Protection: Ex nA II
    - T Rating:
      - 70W and 100W equivalent: T4 (+104 °F/+40 °C), T4 (131 °F/55 °C), T3 (149 °F/65 °C)
      - 150W to 175W equivalent: T4 (+104 °F/+40 °C), T4 (131 °F/55 °C)
      - 250W equivalent: T4 (+104 °F/+40 °C), T4 (122 °F/50 °C)
  - Dust: Zone 22
    - IEC Protection: Ex t IIIC
    - Surface Temperature: T197.6 °F/T92 °C Dc
    - Ambient Temperature:
      - 70W and 100W equivalent: -40 °F to 149 °F/-40 °C to 65 °C
      - 150W to 175W equivalent: -40 °F to 131 °F/-40 °C to 55 °C
      - 250W equivalent: -40 °F to 122 °F/-40 °C to 50 °C
    - IECEX Certificate: IECEx LCI II.0058
    - Index of Protection: IP66
- Ex Standards: IEC 60079-0; 60079-15; 60079-31

### Related Products

- NEC, Class I, Division 2 photocells for classified use are available, see *PCD2 Series*.
- Mounting hoods
  - With photocontrols are not rated IP66

# Mercmaster™ LED Series Luminaires

## Enclosed and Gasketed Fixtures

### NEC/CEC

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Group IIC  
Class II, Division 1, Group E, F, G  
Class II, Division 2, Group F, G  
Class III

### NEC/CEC

Simultaneous Exposure  
Type 3R, 4X  
IP66  
Suitable for Use in Wet Locations  
Marine Outside Type (Salt Water)

### Illustrated Features



#### Heatsink

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



#### Driver Assembly

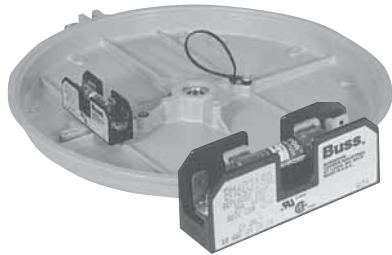
Utilizing non-sparking components avoiding the ignition of gases or vapors that may be present (nA).

Modular Plug between LED and driver.



#### LED Chamber

Protected by polycarbonate lens, allows for easy maintenance access.



#### Fuses

Two screws secure fuse kit to mounting boss in any Mercmaster mounting hood. Fuse included.

#### Photocell

Available for all fixtures except cone and ceiling mount. Installs through knock-out in mounting hood. Provides continuous ON-OFF dusk-to-dawn control.

#### Terminal Blocks (Zone 2)

A seven-point terminal block is provided to facilitate wiring. Terminal block accommodates wire size ranging from #8 to #24 AWG.

#### Epoxy Finish

Ballast housing, hoods and guards are copperfree aluminium with epoxy powder coat finish.

#### Electrical Protection

Ground wire provided to bond mounting hood to ballast housing.

#### Safety

Rounded heatsink edges prevent possible injury during installation.

#### "Safety" High Hinge

Extra-high hinge provides additional protection against accidental ballast housing disengagement during installation or maintenance.

#### Stainless Steel Latch Assembly

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



#### Cooler Operating Cone Hood

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

#### Mounting Hood and Globe Gaskets

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





# Mercmaster™ LED Series Luminaires

## Enclosed and Gasketed Fixtures

### NEC/CEC

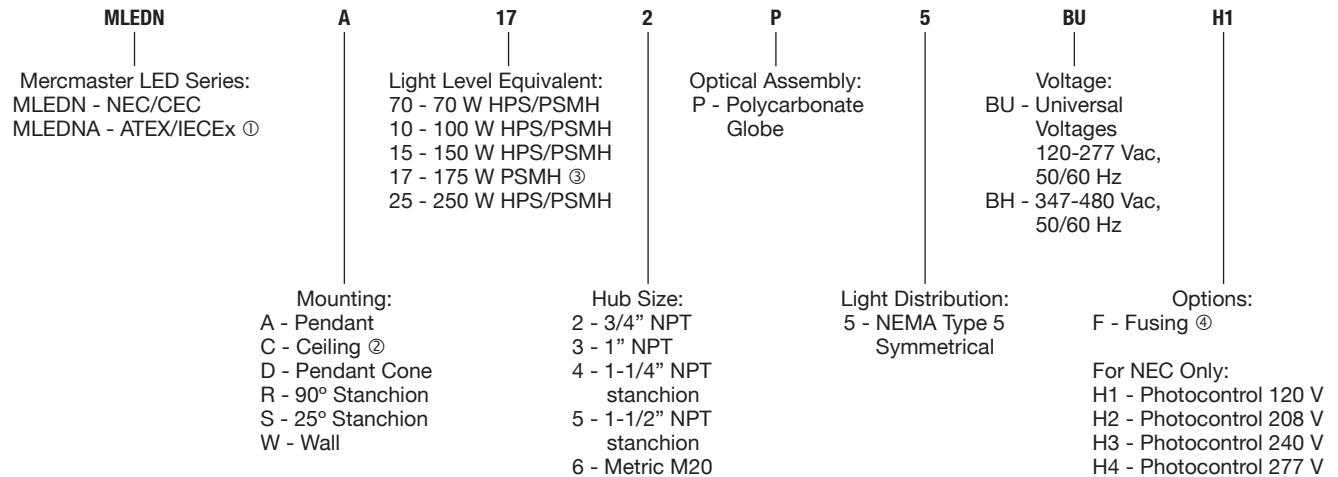
Class I, Division 2, Groups A, B, C, D  
 Class I, Zone 2, Group IIC  
 Class II, Division 1, Group E, F, G  
 Class II, Division 2, Group F, G  
 Class III

### NEC/CEC

Simultaneous Exposure  
 Type 3R, 4X  
 IP66  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water)

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

### Catalog Numbering Guide



① IECEX/ATEX Certification pending for: Zone 2 and 22; ② II 3 GD.

② Ceiling mount luminaires are not designed to use the PCD2 photocontrol. Ceiling mounts must use an FS/FD box with a photocontrol. Contact your local sales representative for more information.

③ 175 W Pulse Start Metal Halide only. Does not have a High Pressure Sodium equivalent.

④ Canadian Electrical Code does NOT allow fusing in hazardous locations ✖. Fuse not CEC rated.

# Mercmaster™ LED Series Luminaire Technical Data

## 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, Group E, F, G  
 Class II, Division 2, Group F, G  
 Class III

### NEC/CEC

Simultaneous Exposure  
 Type 3R, 4X  
 IP66  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water)

### Technical Data

Lamp	Light Level Equivalent	Type	Ambient Temperature (°F/°C)	Supply Wire Temperature (°F/°C)	Gas		NEC Dust		Gas/Dust	IEC	
					Class I, Division 2 ①	Groups	Class II, Division 1 and 2 ②	Groups	Simultaneous ① Class I, Division 2/ Class II, Division 1	Gas Ex II 3G ① Ex NA	Dust Ex II 3D ② Ex T IIIC
70 Watt HPS	LED	104/40	140/66	T4A	A, B, C, D	T6	E, F, G	T4	T6	T197.6°F/ T92°C DC IP66	
		131/55	167/75	T4		T6		T5			
		143/65	194/90	T3C		T6		T5			
100 Watt HPS	LED	104/40	140/66	T4A	A, B, C, D	T6	E, F, G	T4	T6	T197.6°F/ T92°C DC IP66	
		131/55	167/75	T4		T6		T5			
		143/65	194/90	T3C		T6		T5			
150 Watt HPS	LED	104/40	140/66	T4A	A, B, C, D	T6	E, F, G	T4	T6	T197.6°F/ T92°C DC IP66	
		131/55	167/75	T4		T6		T5			
175 Watt PSMH	LED	104/40	140/66	T4A	A, B, C, D	T6	E, F, G	T4	T6	T197.6°F/ T92°C DC IP66	
		131/55	167/75	T4		T6		T5			
250 Watt PSMH	LED	104/40	140/66	T4A	A, B, C, D	T6	E, F, G	T4	T6	T197.6°F/ T92°C DC IP66	
		122/50	167/75	T4		T6		T5			

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

NEC/CEC																
“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85

IEC									
“T” #	T1		T2		T3		T4	T5	T6
Temp. Range (°C)	301-450		201-300		136-200		101-135	86-100	85

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 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

Lighting

LIGHTING: ENCLOSED AND GASKETED – AREA – LED/INDUCTION

# Mercmaster™ LED Series Luminaire Technical Data

## 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, Group E, F, G  
 Class II, Division 2, Group F, G  
 Class III

**NEC/CEC**

Simultaneous Exposure  
 Type 3R, 4X  
 IP66  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water)

**Lamp Comparison Chart**

Lamp Data	Line Current Amps	Input Power	Lumens	CRI	Lamp Life (Hours)	Color Temp CCT
MLEDN70	.31 @ 120 V	35	2300	70	60,000+	5650
	.17 @ 277 V	33				
MLEDN100	.41 @ 120 V	47.5	3450	70	60,000+	5650
	.20 @ 277 V	46				
MLEDN150	.53 @ 120 V	61	4850	70	60,000+	5650
	.25 @ 277 V	62				
MLEDN175	.63 @ 120 V	74	6076	70	60,000+	5650
	.29 @ 277 V	72				
MLEDN250	.80 @ 120 V	95.5	9455	70	60,000+	5650
	.36 @ 277 V	92				

**Mercmaster LED Ballast and Mounting Hood Weights**

Description	Weight in Lbs/Kg
Fixture Unit	10.6/4.8

Description	Weight in Lbs/Kg
Pendant	2.25/1.0
Pendant Cone	2.50/1.1
Ceiling	3.00/1.4

Description	Weight in Lbs/Kg
Wall	4.00/1.8
25° Stanchion	3.25/1.5
90° Stanchion	3.75/1.7

Lighting

LIGHTING: ENCLOSED AND GASKETED – AREA – LED/INDUCTION





# Mercmaster™ LED Series Luminaires

## Enclosed and Gasketed Fixtures

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

NEC/CEC  
 Simultaneous Exposure  
 Type 3R, 4X  
 IP66  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water)

	LED Wattage BU/BH	Lamp Wattage Equivalent	Hub Size	Conformance	Catalog Numbers ②
<b>Pendant — One Hub, Rigid Mounting</b>					
	35/33 W	70 W HPS/PSMH	3/4	NEC/CEC	MLEDNA702P5
	47.5/46 W	100 W HPS/PSMH	3/4	NEC/CEC	MLEDNA102P5
	61/62 W	150 W HPS/PSMH	3/4	NEC/CEC	MLEDNA152P5
	74/72 W	175 W PSMH	3/4	NEC/CEC	MLEDNA172P5
	95.5/92 W	250 W HPS/MH	3/4	NEC/CEC	MLEDNA252P5
	35/33 W	70 W HPS/PSMH	1	NEC/CEC	MLEDNA703P5
	47.5/46 W	100 W HPS/PSMH	1	NEC/CEC	MLEDNA103P5
	61/62 W	150 W HPS/PSMH	1	NEC/CEC	MLEDNA153P5
	74/72 W	175 W PSMH	1	NEC/CEC	MLEDNA173P5
	95.5/92 W	250 W HPS/PSMH	1	NEC/CEC	MLEDNA253P5
	35/33 W	70 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAA706P5
	47.5/46 W	100 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAA106P5
	61/62 W	150 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAA156P5
	74/72 W	175 W PSMH	M20	ATEX/IECEX ①	MLEDNAA176P5
95.5/92 W	250 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAA256P5	
<b>Pendant Cone — One Hub, Rigid Mounting</b>					
	35/33 W	70 W HPS/PSMH	3/4	NEC/CEC	MLEDND702P5
	47.5/46 W	100 W HPS/PSMH	3/4	NEC/CEC	MLEDND102P5
	61/62 W	150 W HPS/PSMH	3/4	NEC/CEC	MLEDND152P5
	74/72 W	175 W PSMH	3/4	NEC/CEC	MLEDND172P5
	95.5/92 W	250 W HPS/PSMH	3/4	NEC/CEC	MLEDND252P5
	35/33 W	70 W HPS/PSMH	1	NEC/CEC	MLEDND703P5
	47.5/46 W	100 W HPS/PSMH	1	NEC/CEC	MLEDND103P5
	61/62 W	150 W HPS/PSMH	1	NEC/CEC	MLEDND153P5
	74/72 W	175 W PSMH	1	NEC/CEC	MLEDND173P5
	95.5/92 W	250 W HPS/PSMH	1	NEC/CEC	MLEDND253P5
	35/33 W	70 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAD706P5
	47.5/46 W	100 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAD106P5
	61/62 W	150 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAD156P5
	74/72 W	175 W PSMH	M20	ATEX/IECEX ①	MLEDNAD176P5
95.5/92 W	250 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAD256P5	

① IECEx/ATEX Certification pending for: Zone 2 and 22; ② II 3 GD.

② 

Suffix	Voltage AC	Frequency
BU	120 - 277	50/60 Hz
BH	347 - 480	50/60 Hz

# Mercmaster™ LED Series Luminaires



## Enclosed and Gasketed Fixtures

### NEC/CEC

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, Group IIC  
Class II, Division 1, Group E, F, G  
Class II, Division 2, Group F, G  
Class III

### NEC/CEC

Simultaneous Exposure  
Type 3R, 4X  
IP66  
Suitable for Use in Wet Locations  
Marine Outside Type (Salt Water)

	LED Wattage BU/BH	Lamp Wattage Equivalent	Hub Size	Conformance	Catalog Numbers ②
<b>Ceiling — Five Hubs, Four Close-up Plugs</b>					
	35/33 W	70 W HPS/PSMH	3/4	NEC/CEC	MLEDNC702P5
	47.5/46 W	100 W HPS/PSMH	3/4	NEC/CEC	MLEDNC102P5
	61/62 W	150 W HPS/PSMH	3/4	NEC/CEC	MLEDNC152P5
	74/72 W	175 W PSMH	3/4	NEC/CEC	MLEDNC172P5
	95.5/92 W	250 W HPS/PSMH	3/4	NEC/CEC	MLEDNC252P5
	35/33 W	70 W HPS/PSMH	1	NEC/CEC	MLEDNC703P5
	47.5/46 W	100 W HPS/PSMH	1	NEC/CEC	MLEDNC103P5
	61/62 W	150 W HPS/PSMH	1	NEC/CEC	MLEDNC153P5
	74/72 W	175 W PSMH	1	NEC/CEC	MLEDNC173P5
	95.5/92 W	250 W HPS/PSMH	1	NEC/CEC	MLEDNC253P5
	35/33 W	70 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAC706P5
	47.5/46 W	100 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAC106P5
	61/62 W	150 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAC156P5
	74/72 W	175 W PSMH	M20	ATEX/IECEX ①	MLEDNAC176P5
	95.5/92 W	250 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAC256P5
<b>Wall — Five Hubs, Four Close-up Plugs</b>					
	35/33 W	70 W HPS/PSMH	3/4	NEC/CEC	MLEDNW702P5
	47.5/46 W	100 W HPS/PSMH	3/4	NEC/CEC	MLEDNW102P5
	61/62 W	150 W HPS/PSMH	3/4	NEC/CEC	MLEDNW152P5
	74/72 W	175 W PSMH	3/4	NEC/CEC	MLEDNW172P5
	95.5/92 W	250 W HPS/PSMH	3/4	NEC/CEC	MLEDNW252P5
	35/33 W	70 W HPS/PSMH	1	NEC/CEC	MLEDNW703P5
	47.5/46 W	100 W HPS/PSMH	1	NEC/CEC	MLEDNW103P5
	61/62 W	150 W HPS/PSMH	1	NEC/CEC	MLEDNW153P5
	74/72 W	175 W PSMH	1	NEC/CEC	MLEDNW173P5
	95.5/92 W	250 W HPS/PSMH	1	NEC/CEC	MLEDNW253P5
	35/33 W	70 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAW706P5
	47.5/46 W	100 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAW106P5
	61/62 W	150 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAW156P5
	74/72 W	175 W PSMH	M20	ATEX/IECEX ①	MLEDNAW176P5
	95.5/92 W	250 W HPS/PSMH	M20	ATEX/IECEX ①	MLEDNAW256P5

① IECEx/ATEX Certification pending for: Zone 2 and 22; ② II 3 GD.



② Suffix	Voltage AC	Frequency
BU	120 - 277	50/60 Hz
BH	347 - 480	50/60 Hz

# Mercmaster™ LED Series Luminaires

## Enclosed and Gasketed Fixtures

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

**NEC/CEC**  
 Simultaneous Exposure  
 Type 3R, 4X  
 IP66  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water)

	LED Wattage BU/BH	Lamp Wattage Equivalent	Hub Size	Conformance	Catalog Numbers ②
<b>25° Stanchion — One Hub</b>					
	35/33 W	70 W HPS/PSMH	1-1/4	NEC/CEC	<b>MLEDNS704P5</b>
	47.5/46 W	100 W HPS/PSMH	1-1/4	NEC/CEC	<b>MLEDNS104P5</b>
	61/62 W	150 W HPS/PSMH	1-1/4	NEC/CEC	<b>MLEDNS154P5</b>
	74/72 W	175 W PSMH	1-1/4	NEC/CEC	<b>MLEDNS174P5</b>
	95.5/92 W	250 W HPS/PSMH	1-1/4	NEC/CEC	<b>MLEDNS254P5</b>
	35/33 W	70 W HPS/PSMH	1-1/2	NEC/CEC	<b>MLEDNS705P5</b>
	47.5/46 W	100 W HPS/PSMH	1-1/2	NEC/CEC	<b>MLEDNS105P5</b>
	61/62 W	150 W HPS/PSMH	1-1/2	NEC/CEC	<b>MLEDNS155P5</b>
	74/72 W	175 W PSMH	1-1/2	NEC/CEC	<b>MLEDNS175P5</b>
	95.5/92 W	250 W HPS/PSMH	1-1/2	NEC/CEC	<b>MLEDNS255P5</b>
	35/33 W	70 W HPS/PSMH	1-1/4	ATEX/IECEX ①	<b>MLEDNAS704P5</b>
	47.5/46 W	100 W HPS/PSMH	1-1/4	ATEX/IECEX ①	<b>MLEDNAS104P5</b>
	61/62 W	150 W HPS/PSMH	1-1/4	ATEX/IECEX ①	<b>MLEDNAS154P5</b>
	74/72 W	175 W PSMH	1-1/4	ATEX/IECEX ①	<b>MLEDNAS174P5</b>
	95.5/92 W	250 W HPS/PSMH	1-1/4	ATEX/IECEX ①	<b>MLEDNAS254P5</b>
	35/33 W	70 W HPS/PSMH	1-1/2	ATEX/IECEX ①	<b>MLEDNAS705P5</b>
	47.5/46 W	100 W HPS/PSMH	1-1/2	ATEX/IECEX ①	<b>MLEDNAS105P5</b>
	61/62 W	150 W H HPS/PSMH	1-1/2	ATEX/IECEX ①	<b>MLEDNAS155P5</b>
	74/72 W	175 W PSMH	1-1/2	ATEX/IECEX ①	<b>MLEDNAS175P5</b>
	95.5/92 W	250 W HPS/PSMH	1-1/2	ATEX/IECEX ①	<b>MLEDNAS255P5</b>
<b>90° Stanchion — One Hub</b>					
	35/33 W	70 W HPS/PSMH	1-1/4	NEC/CEC	<b>MLEDNR704P5</b>
	47.5/46 W	100 W HPS/PSMH	1-1/4	NEC/CEC	<b>MLEDNR104P5</b>
	61/62 W	150 W HPS/PSMH	1-1/4	NEC/CEC	<b>MLEDNR154P5</b>
	74/72 W	175 W PSMH	1-1/4	NEC/CEC	<b>MLEDNR174P5</b>
	95.5/92 W	250 W HPS/PSMH	1-1/4	NEC/CEC	<b>MLEDNR254P5</b>
	35/33 W	70 W HPS/PSMH	1-1/2	NEC/CEC	<b>MLEDNR705P5</b>
	47.5/46 W	100 W HPS/PSMH	1-1/2	NEC/CEC	<b>MLEDNR105P5</b>
	61/62 W	150 W HPS/PSMH	1-1/2	NEC/CEC	<b>MLEDNR155P5</b>
	74/72 W	175 W PSMH	1-1/2	NEC/CEC	<b>MLEDNR175P5</b>
	95.5/92 W	250 W HPS/PSMH	1-1/2	NEC/CEC	<b>MLEDNR255P5</b>
	35/33 W	70 W HPS/PSMH	1-1/4	ATEX/IECEX ①	<b>MLEDNAR704P5</b>
	47.5/46 W	100 W HPS/PSMH	1-1/4	ATEX/IECEX ①	<b>MLEDNAR104P5</b>
	61/62 W	150 W HPS/PSMH	1-1/4	ATEX/IECEX ①	<b>MLEDNAR154P5</b>
	74/72 W	175 W PSMH	1-1/4	ATEX/IECEX ①	<b>MLEDNAR174P5</b>
	95.5/92 W	250 W HPS/PSMH	1-1/4	ATEX/IECEX ①	<b>MLEDNAR254P5</b>
	35/33 W	70 W HPS/PSMH	1-1/2	ATEX/IECEX ①	<b>MLEDNAR705P5</b>
	47.5/46 W	100 W HPS/PSMH	1-1/2	ATEX/IECEX ①	<b>MLEDNAR105P5</b>
	61/62 W	150 W HPS/PSMH	1-1/2	ATEX/IECEX ①	<b>MLEDNAR155P5</b>
	74/72 W	175 W PSMH	1-1/2	ATEX/IECEX ①	<b>MLEDNAR175P5</b>
	95.5/92 W	250 W HPS/PSMH	1-1/2	ATEX/IECEX ①	<b>MLEDNAR255P5</b>

① IECEx/ATEX Certification pending for: Zone 2 and 22; ② II 3 GD.

② 

Suffix	Voltage AC	Frequency
BU	120 - 277	50/60 Hz
BH	347 - 480	50/60 Hz



# Mercmaster™ LED Series Luminaire Ballast Bodies

## 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, Group E, F, G  
 Class II, Division 2, Group F, G  
 Class III

**NEC/CEC**  
 Simultaneous Exposure  
 Type 3R, 4X  
 IP66  
 Suitable for Use in Wet Locations  
 Marine Outside Type (Salt Water)

### Fixture Unit – Electrical Specification



LED Wattage BU/BH	Light Level Equivalent	Current Draw	Fuse Kit ②	Catalog Number		Conformance	Voltage Range	Voltage Suffix
					Fixture Unit			
35 / 33 W	70 W HPS	120 Vac @ .31 Amps 277 Vac @ .17 Amps	F3		MLEDN70P5	NEC/CEC	120-277 Vac, 50/60 Hz	BU
					MLEDNA70P5	ATEX/IECEX ①		
35 / 33 W	70 W HPS	347 Vac @ .32 Amps 480 Vac @ .23 Amps	F3		MLEDN70P5	NEC/CEC	347-480 Vac, 50/60 Hz	BH
					MLEDNA70P5	ATEX/IECEX ①		
47.5 / 46 W	100 W HPS	120 Vac @ .41 Amps 277 Vac @ .20 Amps	F3		MLEDN10P5	NEC/CEC	120-277 Vac, 50/60 Hz	BU
					MLEDNA10P5	ATEX/IECEX ①		
47.5 / 46 W	100 W HPS	347 Vac @ .32 Amps 480 Vac @ .23 Amps	F3		MLEDN10P5	NEC/CEC	347-480 Vac, 50/60 Hz	BH
					MLEDNA10P5	ATEX/IECEX ①		
61 / 62 W	150 W HPS	120 Vac @ .53 Amps 277 Vac @ .25 Amps	F3		MLEDN15P5	NEC/CEC	120-277 Vac, 50/60 Hz	BU
					MLEDNA15P5	ATEX/IECEX ①		
61 / 62 W	150 W HPS	347 Vac @ .32 Amps 480 Vac @ .23 Amps	F3		MLEDN15P5	NEC/CEC	347-480 Vac, 50/60 Hz	BH
					MLEDNA15P5	ATEX/IECEX ①		
74 / 72 W	175 W MH	120 Vac @ .63 Amps 277 Vac @ .29 Amps	F3		MLEDN17P5	NEC/CEC	120-277 Vac, 50/60 Hz	BU
					MLEDNA17P5	ATEX/IECEX ①		
74 / 72 W	175 W MH	347 Vac @ .32 Amps 480 Vac @ .23 Amps	F3		MLEDN17P5	NEC/CEC	347-480 Vac, 50/60 Hz	BH
					MLEDNA17P5	ATEX/IECEX ①		
95.5 / 92 W	250 W HPS/MH	120 Vac @ .80 Amps 277 Vac @ .36 Amps	F3		MLEDN25P5	NEC/CEC	120-277 Vac, 50/60 Hz	BU
					MLEDNA25P5	ATEX/IECEX ①		
95.5 / 92 W	250 W HPS/MH	347 Vac @ .32 Amps 480 Vac @ .23 Amps	F3		MLEDN25P5	NEC/CEC	347-480 Vac, 50/60 Hz	BH
					MLEDNA25P5	ATEX/IECEX ①		

① IECEx/ATEX Certification pending for: Zone 2 and 22; ② II 3 GD.








② Canadian Electrical Code does NOT allow fusing in hazardous locations ③. Fuse not CEC rated.

# Mercmaster™ LED Series Luminaire Mounting Hoods

## Enclosed and Gasketed Fixtures

Lighting

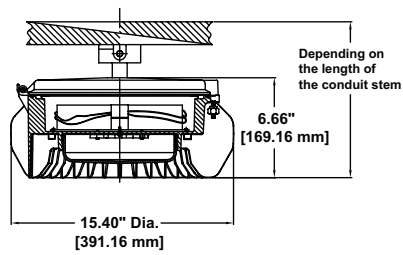
LIGHTING: ENCLOSED AND GASKETED — AREA — LED/INDUCTION

Mounting Hoods			
	Description	Hub Size	Catalog Number
<b>Pendant</b>			
	One Hub, Rigid Mounting	3/4 1 M20	KPA-75 KPA-100 KPA-M20
<b>Pendant Cone</b>			
	One Hub, Rigid Mounting	3/4 1 M20	KPCH-75 KPCH-100 KPCH-M20
<b>Ceiling</b>			
	Five Hubs, Four Close-Up Plugs	3/4 1 M20	KPC-75 KPC-100 KPC-M20
<b>Wall</b>			
	Five Hubs, Four Close-Up Plugs	3/4 1 M20	KPWB-75 KPWB-100 KPWB-M20
<b>25° Stanchion</b>			
	One Hub	1-1/4 1-1/2	KPS-125 KPS-150
<b>90° Stanchion</b>			
	One Hub	1-1/4 1-1/2	KPST-125 KPST-150
<b>Replacement Parts</b>			
	Description		Catalog Number
	Globe		59607647000
	Globe Gasket — Silicone Rubber		KRF-GK

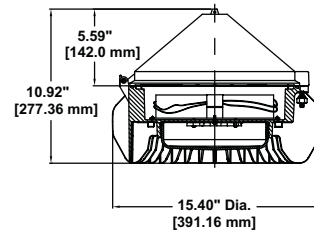
# Mercmaster™ LED Series Luminaire Dimensions

## Enclosed and Gasketed Fixtures

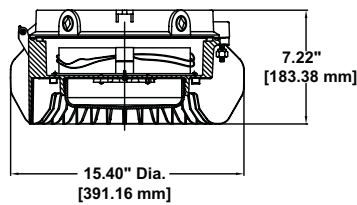
Dimensions in Inches/Millimeters



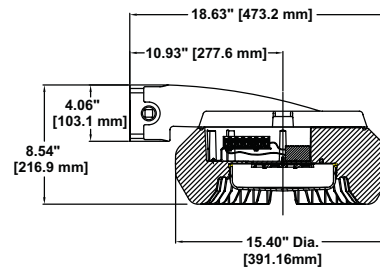
Pendant Mount



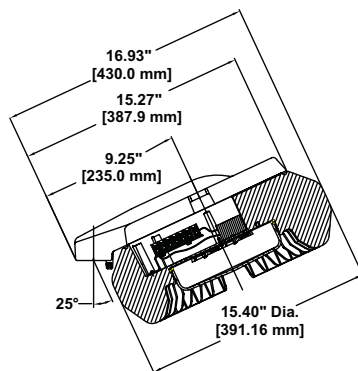
Pendant Cone Mount



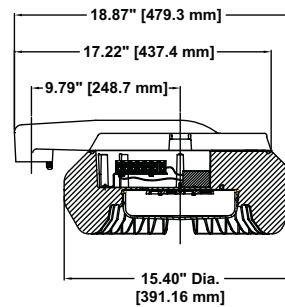
Ceiling Mount



Wall Mount



25° Stanchion Mount



90° Stanchion Mount



# PCD2 Series Factory Sealed Hazardous Location Photocontrol ①

## For Use in Class I, Division 2, Groups A, B, C, D Locations

Maintains Class I, Division 2 rating for Mercmaster III, Mercmaster III Low Profile, Mercmaster III 50-250 and 400 Series Luminaires; Mercmaster LED Series.

Class I, Division 2, Groups A, B, C, D  
NEMA 4X

### Applications

- Encapsulated photocontrol provides automatic dusk-to-dawn lighting control in Class I, Division 2 locations.
- Typical applications include walkways, security areas and any other outdoor lighting application.
- For use with Mercmaster III, Mercmaster III Low Profile, Mercmaster III 50-250 and 400 Series Luminaires; Mercmaster LED Series.
- For remote mounting in FS Boxes.

### Materials

- Encapsulated with epoxy sealing compound
- FS: aluminium

### Certifications and Compliances

- UL Standard: 1604 – Hazardous (Classified) Locations
- cULus Recognized

### Features

- Factory sealed design eliminates the need for an explosionproof enclosure.
- Can be easily installed in the field.
- Solid state design for performance and reliability.
- Available for 120, 208, 240, or 277 volts.
- 50-400 W HID, incandescent, fluorescent and LED, 50/60 Hz.
- 1000 VA Voltage/Ampere
- Minimum time delay: 15 seconds to eliminate nuisance tripping.
- Provided with (3) 18AWG stranded leads 6"/152.4 mm in length.
- Will fit through standard 1/2" knockout.

### Factory-Installed Photocontrol

Add to fixture catalog after voltage; i.e.: **KPWBL1075MTH1**.



Mercmaster III wall mounting hood with photocontrol installed shown

Voltage Range	Suffix Designation
120 V, 50/60 Hz	H1
208 V, 50/60 Hz	H2
240 V, 50/60 Hz	H3
277 V, 50/60 Hz	H4

### 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**.



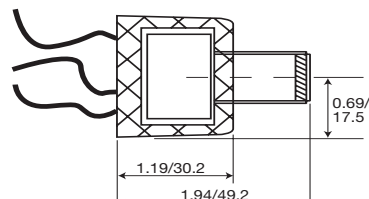
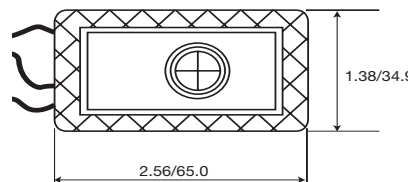
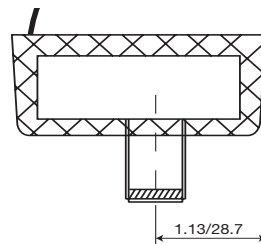
Voltage Range	Catalog Number
120V, 50/60 Hz	<b>FSKA-PC120D2</b>
208-277V, 50/60 Hz	<b>FSKA-PC247D2</b>

### Photocontrol for Field Installation



Voltage Range	Max. Current	Catalog Number
120 V, 50/60 Hz	8.3 Amp	<b>PC120D2</b>
208-277 V, 50/60 Hz	3.5 Amp	<b>PC247D2</b>

### Dimensions



① Fixtures with photocontrols are not rated IP66.

# Mercmaster™ LED Series Luminaire Photometric Data

## Enclosed and Gasketed Fixtures

DATA SHOWN IS ABSOLUTE

REPORT NUMBER: **MLEDN70P5BU**

Lamps: Mercmaster LED, Class 1, Div 2, Polycarbonate Optic

### Candela Distribution

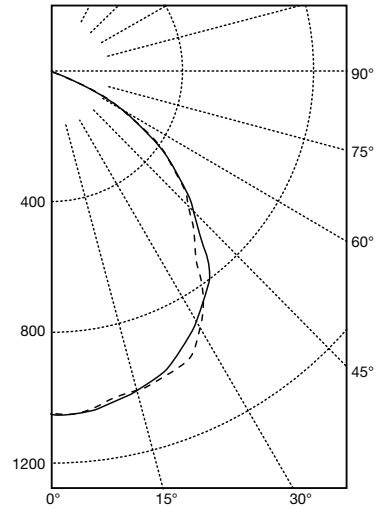
	0.0	22.5	45.0	67.5	90.0	Flux
0	1054	1054	1054	1054	1054	
5	1048	1047	1051	1047	1048	100
15	1016	1014	1016	1014	1016	287
25	977	961	941	961	977	442
35	805	779	824	779	805	497
45	583	607	603	607	583	465
55	408	425	411	425	408	358
65	185	146	139	146	185	133
75	5	5	4	5	5	9
85	1	0	0	0	1	1
90	0	0	0	0	0	

### Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	829	36.1
0-40	1326	57.7
0-60	2149	93.5
0-90	2292	99.7

### CIE Type – Direct

Plane	Spacing Criteria
0-Deg	90-Deg
1.3	1.3



Lighting

LIGHTING: ENCLOSED AND GASKETED – AREA – LED/INDUCTION

REPORT NUMBER: **MLEDN10P5BU**

Lamps: Mercmaster LED, Class 1, Div 2, Polycarbonate Optic

### Candela Distribution

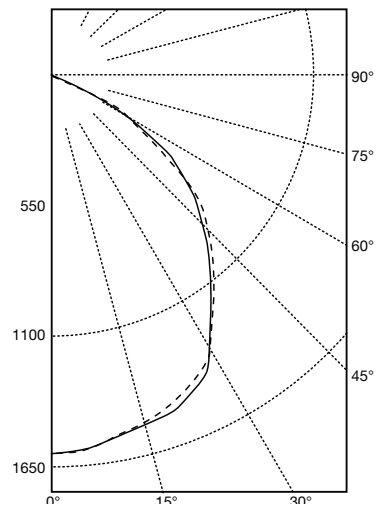
	0.0	22.5	45.0	67.5	90.0	Flux
0	1580	1580	1580	1580	1580	
5	1569	1568	1568	1568	1569	149
15	1509	1510	1513	1510	1509	427
25	1412	1414	1437	1414	1412	655
35	1177	1215	1171	1215	1177	748
45	934	915	893	915	934	707
55	577	588	632	588	577	527
65	228	218	195	218	228	209
75	6	7	6	7	6	13
85	0	0	0	0	0	1
90	0	0	0	0	0	

### Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1231	35.8
0-40	1980	57.6
0-60	3213	93.5
0-90	3438	100.0

### CIE Type – Direct

Plane	Spacing Criteria
0-Deg	90-Deg
1.2	1.2



# Mercmaster™ LED Series Luminaire Photometric Data

## Enclosed and Gasketed Fixtures

DATA SHOWN IS ABSOLUTE

REPORT NUMBER: **MLEDN15P5BU**

Lamps: Mercmaster LED, Class 1, Div 2, Polycarbonate Optic

### Candela Distribution

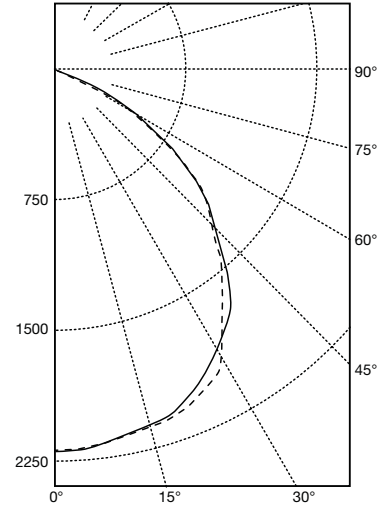
	0.0	22.5	45.0	67.5	90.0	Flux
0	2208	2208	2208	2208	2208	
5	2202	2195	2197	2195	2202	209
15	2137	2131	2127	2131	2137	603
25	2045	2003	1977	2003	2045	926
35	1669	1658	1735	1658	1669	1051
45	1252	1282	1297	1282	1252	988
55	836	850	838	850	834	746
65	276	307	333	307	276	298
75	16	12	11	12	16	22
85	2	1	1	1	2	2
90	1	0	0	0	1	

### Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1738	35.8
0-40	2789	57.5
0-60	4523	93.3
0-90	4844	99.9

### CIE Type – Direct

Plane	Spacing Criteria
0-Deg	90-Deg
1.2	1.2



REPORT NUMBER: **MLEDN17P5BU**

Lamps: Mercmaster LED, Class 1, Div 2, Polycarbonate Optic

### Candela Distribution

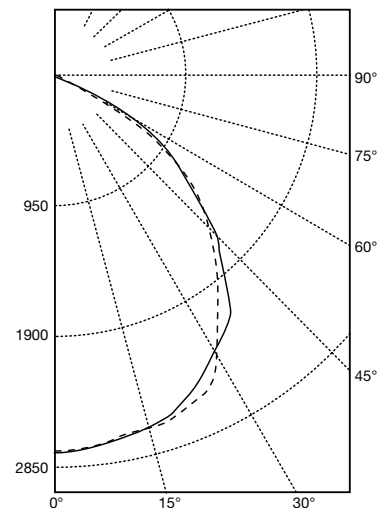
	0.0	22.5	45.0	67.5	90.0	Flux
0	2739	2739	2739	2739	2739	
5	2724	2724	2725	2724	2724	259
15	2660	2658	2655	2658	2660	752
25	2553	2508	2462	2508	2553	1156
35	2069	2062	2201	2062	2069	1312
45	1580	1614	1655	1614	1580	1243
55	1047	1093	1046	1093	1047	943
65	353	380	391	380	353	378
75	19	15	16	15	19	28
85	2	1	1	1	2	2
90	1	0	0	0	1	

### Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	2167	35.7
0-40	3478	57.2
0-60	5664	93.2
0-90	6072	99.9

### CIE Type – Direct

Plane	Spacing Criteria
0-Deg	90-Deg
1.2	1.2



Lighting

LIGHTING: ENCLOSED AND GASKETED – AREA – LED/INDUCTION

# Mercmaster™ LED Series Luminaire Photometric Data

## Enclosed and Gasketed Fixtures

DATA SHOWN IS ABSOLUTE

REPORT NUMBER: MLEDN250P5BU

Lamps: Mercmaster LED, Class 1, Div 2, Polycarbonate Optic

### Candela Distribution

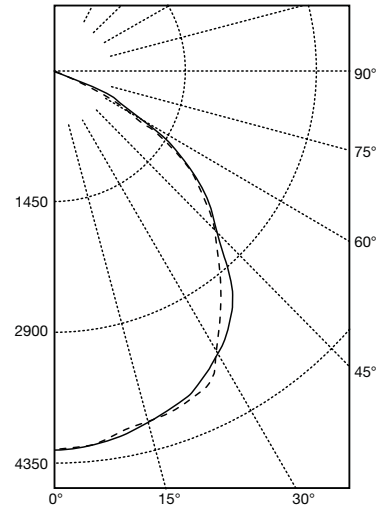
	0.0	22.5	45.0	67.5	90.0	Flux
0	4206	4206	4206	4206	4206	
5	4170	4182	4177	4182	4170	397
15	4035	4046	4038	4046	4035	1145
25	3913	3888	3829	3888	3913	1784
35	3211	3233	3380	3233	3211	2046
45	2484	2524	2532	2524	2484	1942
55	1710	1763	1708	1763	1710	1530
65	682	564	606	564	682	568
75	20	18	17	18	20	31
85	2	1	1	1	2	2
90	1	1	0	1	1	

### Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	3326	35.2
0-40	5372	56.8
0-60	8844	93.5
0-90	9445	99.9

### CIE Type – Direct

Plane	Spacing Criteria
0-Deg	90-Deg
1.2	1.2



Lighting

LIGHTING: ENCLOSED AND GASKETED – AREA – LED/INDUCTION