

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

## High Pressure Sodium and Pulse Start Metal Halide

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### 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 or combustible dusts are present under conditions defined by the National Electrical Code as Class I, Division 2; Class II, Division 1 and 2; and Class III
  - In applications involving medium and high mounting heights
  - In applications where energy efficient, high lumen output is required
  - The AEx nA nR Mercmaster III fixture is factory sealed and prevents vapors and gases from entering the globe chamber. There are no seals or putty required.
  - The AEx nR Mercmaster III fixture requires all wiring entries to be sealed.
  - 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
  - Other areas where dust, water, dirt and rough usage are a problem

### Features

- Superior corrosion resistance.
- Choice of light sources: high pressure sodium, and pulse start metal halide.
- Six mounting arrangements to suit any lighting layout: pendant, ceiling, wall bracket, 25° (angle) stanchion, 90° (straight) stanchion and cone.
- 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.
- Choice of optical assemblies: prismatic globe; enclosed reflector with sealed lens; or Type V or Type II closed prismatic glass refractor, with or without guards.
- Wide choice of photometric distributions.
- All fixtures designed to perform in a 40 °C (104 °F) ambient temperature. Selected fixtures are suitable for ambient temperatures up to 65 °C (149 °F) .
- Mogul base porcelain lamp holder with nickel-plated contacts has 200 °C (392 °F) rated welded leads, pre-wired to the ballast. Assures trouble-free operation in installations where high ambient temperatures are encountered.
- For electrical protection, a ground wire is provided on each Mercmaster to bond hood and ballast housing.
- Terminal blocks are provided for Zone 2 fixtures to facilitate wiring.
- Standard dome of 30° angle reflectors made of fiberglass reinforced white polyester. Highly resistant to corrosive atmospheres.
- A wide range of voltages available (120 to 600 Volt) and ballast types (CWA and Super CWA).
- One-piece ballast housing for each component provides even



Enclosed Reflector



Prismatic Glass Globe



12" Glass Refractor

- heat dissipation for cooler operation and longer ballast life.
- All Mercmaster mounting hoods have provision for easy field installation of fuses in fixtures (see fuse kit listings).

### Standard Materials

- Mounting hoods and ballast bodies: cast copperfree (less than 4/10 of 1% copper) aluminum
- Reflectors: Fiberglass reinforced white polyester
- Guards, hardware and catch assemblies: stainless steel
- Globe: heat- and impact-resistant internally fluted glass
- Refractors: prismatic glass
- Enclosed reflector: etched Alzak aluminum with sealed, tempered heat- and impact-resistant lens
- Body and globe gaskets: high-temperature silicone rubber

### Standard Finishes

- Mounting hoods and guards: epoxy powder coat, electrostatically applied for complete and uniform protection

### Options

- AEx nA nR fixtures are available with a Class I, Zone 2 rating. Add suffix **-Z2**.
- AEx nR fixtures are available with a Class I, Zone 2 rating. Add suffix **-ZB**.
- Quartz Auxiliary comes to full brightness immediately and remains lit until the HID lamp attains 60-70% of full illumination. Quartz Auxiliary supplied with relay switch and socket to accept 120 V quartz double-contact bayonet base lamp (not included). (Not suitable for hazardous locations.) Add suffix **-E**.
- Factory sealed photocontrol available. See PCD2 Series.
- Smart Starter incorporates a 1-1/2-minute timer and performs as a conventional starter to normally start lamp. Removes itself from circuit if lamp burns out or is removed from socket. Eliminates starter failures caused by prolonged operation with cycling or failing lamps and simplifies finding their location, reducing maintenance and repair costs. Available for all HPS and PSMH fixtures. Add suffix **-S**.

### NEC/CEC Certifications and Compliances

- cULus Listed: E10444
- UL Standard: ANSI/UL 844, 1598, 60079-0, 60079-15, Marine Type Electric Fixtures Outside Type (Salt Water)
- CSA Certified: 025428
- CSA Standard: CSA C22.2 No. 9, C22.2 No. 137; CAN/CSA E60079-0, E60079-15
- 250 W PSMH not available in MT ballast. See Mercmaster III, 50-250 Luminaires.

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

## High Pressure Sodium and Pulse Start Metal Halide

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

## Illustrated Features



### High Temperature Sockets

Mogul base high-temperature porcelain sockets.

### Aluminum Inner Reflector

Solid aluminum inner reflector (for refractor ballast housings only) improves photometric efficiency.

### Globe Chamber

Completely sealed from the ballast housing and outside vapors/air (nR).



### Vented Reflectors

Reflectors are thick, tough fiberglass-reinforced white polyester, vented for cooler operation. Quickly attach with furnished stainless steel screws.

### 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.

### Stainless Steel Inserts

Ballast bodies have stainless steel threaded inserts to receive stainless steel screws for reflectors and guard. Prevents "freezing", allowing guards and reflectors to be easily removed and replaced at any time, without damage to the housing.

### Epoxy Finish

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

### 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.

### Prismatic Glass Globes, Refractors and Enclosed Reflector

Heat-resistant globes, refractors and enclosed reflector thread into ballast housing and seal against a high temperature silicone rubber gasket.



### Ballast Assembly

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

### Mounting Hood and Globe Gaskets

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

### Electrical Protection

Ground wire provided to bond mounting hood to ballast housing.



### Cooler Operating Cone Hood

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



### Fuses

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

### "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.

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

## High Pressure Sodium and Pulse Start Metal Halide

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

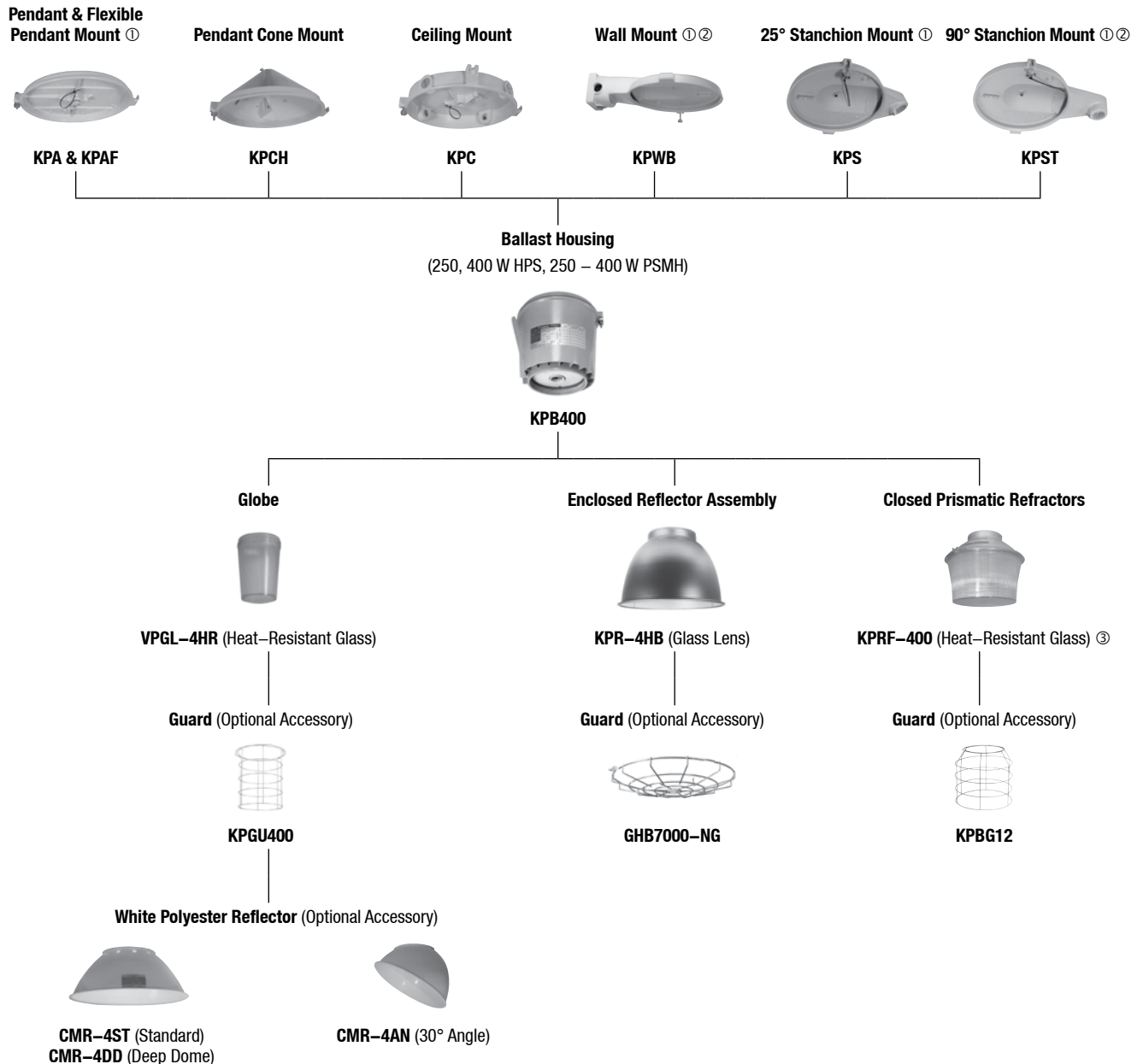
### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### Mercmaster III 400 Family Tree



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

② Standard and deep dome reflectors may interfere with bottom conduit entry if used with KPST and KPWB mounting hoods.

③ Available in NEMA Type II and V.

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

## High Pressure Sodium and Pulse Start Metal Halide

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

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

### Catalog Numbering Guide

| KP                                       | A                                                                                                                                                                                   | L                                                                            | 40                                                                                                | 10                                                                                                          | J5                                                                                                                                                                | G                                                                                  | MT                                                                                                                                                                                    | S                                                                                                                                                                                                                                                                                                                                   | Z2                                                                                                                              |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Series:<br>KP -<br>Mercmaster III<br>400 |                                                                                                                                                                                     | Lamp Type:<br>L - High Pressure<br>Sodium<br>P - Pulse Start<br>Metal Halide |                                                                                                   | Hub Size:<br>75 - 3/4" NPT<br>10 - 1" NPT<br>125 - 1-1/4" NPT<br>stanchion<br>150 - 1-1/2" NPT<br>stanchion |                                                                                                                                                                   | Guard Options: ②<br>G - Globe Guard<br>BG - Refractor<br>Guard<br>Blank - No Guard |                                                                                                                                                                                       | Options:<br>E - Emergency Quartz<br>F - Fuse Kit (Specify<br>Voltage)<br>S - Smart Starter<br>H1 - Photocontrol 120 V<br>H2 - Photocontrol 208 V<br>H3 - Photocontrol 240 V<br>H4 - Photocontrol 277 V<br>E40 - Export Socket<br><br><i>Optional Fusing</i> ⑥<br>FN - 120 V<br>FP - 208 V<br>FS - 240 V<br>FT - 277 V<br>FF - 480 V |                                                                                                                                 |
|                                          | Mounting:<br>A - Pendant (rigid<br>mounting)<br>C - Ceiling<br>CH - Pendant Cone Hood<br>F - Pendant (flexible<br>mounting)<br>ST - 90° Stanchion<br>S - 25° Stanchion<br>WB - Wall |                                                                              | Wattage:<br>25 - 250 W HPS, PSMH ⑤<br>32 - 320 W PSMH<br>35 - 350 W PSMH<br>40 - 400 W PSMH & HPS |                                                                                                             | Optical Assembly: ①<br>Blank - Glass Globe<br>J2 - NEMA II Glass<br>Refractor ④<br>J5 - NEMA V Glass<br>Refractor ④<br>R - Enclosed Refractor<br>with Sealed Lens |                                                                                    | Voltage: ③<br>MT - 120/208/240/277, 60<br>Hz<br>5MT - 120/208/240/<br>277/480, 60 Hz<br>48 - 480, 60 Hz<br>125 - 120, 50Hz<br>226 - 220, 60 Hz<br>235 - 230, 50Hz<br>245 - 240, 50 Hz |                                                                                                                                                                                                                                                                                                                                     | Suffix:<br>Z2 - Zone 2 suffix<br>(required for<br>AEx nA nR<br>rating)<br>ZB - Zone 2 suffix<br>(required for<br>AEx nR rating) |

Refer to "Mounting Hoods and Ballast" page for available Voltage Configuration.

① NO DESIGNATION is required for fixtures with standard type globe.

② NO DESIGNATION is required for fixtures without guards.

③ Other voltages available. Contact your local sales representative.

④ J2 and J5 refractors are not available with Z2 or ZB suffix.

⑤ Available for 480 V, 50 Hz and 5MT ballast options. For MT and TT voltage suffix, see Mercmaster III 50-250 Luminaires.

⑥ Optional fusing is available for use with MT, 5MT and 48 voltage suffixes ONLY.

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

Class I, Division 2; Class II, Division 1; Simultaneous Exposure to Hazardous Conditions on Both Classifications

Temperature identification numbers of Mercmaster III – 400 Fixtures.

## NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

## NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

## “T” Numbers

| Lamp<br>Watts Type | Supply<br>Wire Temp. °C<br>(°F) ① | Ambient Temp. °C<br>(°F) ① | Class I, Division 2 |           |           |                       | Class II, Division 1<br>Groups E, F and G |           |           |                       | Simultaneous Exposure<br>Class I, Division 2 / Class II, Division 1 |           |           |                       |
|--------------------|-----------------------------------|----------------------------|---------------------|-----------|-----------|-----------------------|-------------------------------------------|-----------|-----------|-----------------------|---------------------------------------------------------------------|-----------|-----------|-----------------------|
|                    |                                   |                            | Globe               | Reflector | Refractor | Enclosed<br>Reflector | Globe                                     | Reflector | Refractor | Enclosed<br>Reflector | Globe                                                               | Reflector | Refractor | Enclosed<br>Reflector |
| 250 HPS            | 125 °C (257 °F)                   | 40 °C (104 °F)             | T2                  | T2        | T2        | T2                    | T3B                                       | T3B       | T4        | T4A                   | 325                                                                 | 325       | 325       | 325                   |
|                    | 125 °C (257 °F)                   | 55 °C (131 °F)             | 325                 | 325       | T2        | T2                    | —                                         | —         | T3B       | T4A                   | —                                                                   | —         | T1        | 325                   |
|                    | 125 °C (257 °F)                   | 65 °C (149 °F)             | —                   | —         | T2        | T2                    | —                                         | —         | T3B       | T4                    | —                                                                   | —         | T1        | 350                   |
| 400 HPS            | 90 °C (194 °F)                    | 40 °C (104 °F)             | 350                 | T1        | T1        | 350                   | T3 ②                                      | T3 ②      | T3C       | T3C                   | T1                                                                  | T1        | T1        | 350                   |
|                    | 90 °C (194 °F)                    | 40 °C (104 °F)             | T2A                 | T2A       | T2B       | T2C                   | T3 (EF)                                   | T3 (EF)   | T4        | T4A                   | —                                                                   | —         | —         | —                     |
| 250 PSMH           | 90 °C (194 °F)                    | 55 °C (131 °F)             | T2A                 | T2A       | T2B       | T2C                   | —                                         | —         | —         | —                     | —                                                                   | —         | —         | —                     |
|                    | 90 °C (194 °F)                    | 65 °C (149 °F)             | —                   | —         | —         | T2C                   | —                                         | —         | —         | —                     | —                                                                   | —         | —         | —                     |
|                    | 90 °C (194 °F)                    | 40 °C (104 °F)             | T2B                 | T2B       | T2B       | T2B                   | —                                         | —         | T3C       | T3C                   | —                                                                   | —         | —         | —                     |
| 320 PSMH           | 90 °C (194 °F)                    | 55 °C (131 °F)             | T2A                 | T2A       | T2A       | T2B                   | —                                         | —         | —         | —                     | —                                                                   | —         | —         | —                     |
|                    | 90 °C (194 °F)                    | 40 °C (104 °F)             | T2B                 | T2B       | T2B       | T2B                   | —                                         | —         | T3C       | T3C                   | —                                                                   | —         | —         | —                     |
| 350 PSMH           | 90 °C (194 °F)                    | 55 °C (131 °F)             | T2A                 | T2A       | T2A       | T2B                   | —                                         | —         | —         | —                     | —                                                                   | —         | —         | —                     |
|                    | 90 °C (194 °F)                    | 40 °C (104 °F)             | T2A                 | T2A       | T2B       | T2B                   | —                                         | —         | T3C       | T3C                   | —                                                                   | —         | —         | —                     |
| 400 PSMH           | 90 °C (194 °F)                    | 40 °C (104 °F)             | T2A                 | T2A       | T2B       | T2B                   | —                                         | —         | T3C       | T3C                   | —                                                                   | —         | —         | —                     |

“T” Numbers Represent the Maximum Lamp Temperature for Class I, Division 2 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations

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

① Use +90 °C (+194 °F) rated supply wire.

② “T” numbers are for Groups E and F only.

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

Class I, Zone 2, AEx nR IIC, AEx nA nR IIC, IP66, NEMA 4X

Temperature identification numbers of Mercmaster III – 400 Fixtures.

## NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

## NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

## “T” Numbers

| Lamp  |      | Supply Wire Temp. | Ambient Temp. | Class 1, Zone 2 AEx nA nR |                   |                    | Class 1, Zone 2 AEx nR |                   |                    |
|-------|------|-------------------|---------------|---------------------------|-------------------|--------------------|------------------------|-------------------|--------------------|
| Watts | Type | °C (°F) ①         | °C (°F) ①     | Globe                     | Globe & Reflector | Enclosed Reflector | Globe                  | Globe & Reflector | Enclosed Reflector |
| 250   | HPS  | 125 (257)         | 40 (104)      | T4                        | T4                | T5                 | T4                     | T4                | T5                 |
|       | HPS  | 125 (257)         | 55 (131)      | T3                        | T3                | T3                 | T3                     | T3                | T3                 |
|       | HPS  | 125 (257)         | 65 (149)      | —                         | —                 | T3                 | —                      | —                 | T3                 |
| 400   | HPS  | 90 (194)          | 40 (104)      | T4                        | T4                | T5                 | T4                     | T4                | T5                 |
| 250   | PSMH | 90 (194)          | 40 (104)      | T3                        | T3                | T3                 | —                      | —                 | —                  |
|       | PSMH | 90 (194)          | 55 (131)      | T3                        | T3                | T3                 | —                      | —                 | —                  |
|       | PSMH | 90 (194)          | 65 (149)      | —                         | —                 | T3                 | —                      | —                 | —                  |
| 320   | PSMH | 90 (194)          | 40 (104)      | T4                        | T4                | T4                 | T4                     | T4                | T4                 |
|       | PSMH | 90 (194)          | 55 (131)      | T3                        | T3                | T4                 | T3                     | T3                | T4                 |
| 350   | PSMH | 90 (194)          | 40 (104)      | T4                        | T4                | T4                 | T4                     | T4                | T4                 |
|       | PSMH | 90 (194)          | 55 (131)      | T3                        | T3                | T4                 | T3                     | T3                | T4                 |
| 400   | PSMH | 75 (167)          | 40 (104)      | T3                        | T3                | T3                 | T3                     | T3                | T3                 |
| 400   | MH   | 90 (194)          | 40 (104)      | T3                        | T3                | T3                 | —                      | —                 | —                  |

“T” Numbers represent the maximum surface temperature for luminaires with AEx nA nR and AEx nR rating:

To comply with AEx nR Requirements, all wiring entries must be sealed.

| “T” Number       | T1      | T2      | T3      | T4      | T5      | T6  |
|------------------|---------|---------|---------|---------|---------|-----|
| Temp. Range (°C) | 301-450 | 201-300 | 136-200 | 101-135 | 86-100  | 85  |
| Temp. Range (°F) | 547-842 | 394-572 | 277-392 | 214-275 | 187-212 | 185 |

① Use +90 °C (+194 °F) rated supply wire.

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

## 250 W, 400 W HPS

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

| Type Mounting | Lamp Type | Lamp Watts | Hub Size (Inches) | With Globe | Catalog Numbers ③④⑤         |                         |  |
|---------------|-----------|------------|-------------------|------------|-----------------------------|-------------------------|--|
|               |           |            |                   |            | With Type V 12" Refractor ② | With Enclosed Reflector |  |

### Pendant — One Hub, Rigid Mounting ①



Shown with Globe

|     |     |          |                      |                          |                        |
|-----|-----|----------|----------------------|--------------------------|------------------------|
| HPS | 250 | 3/4<br>1 | KPAL2575<br>KPAL2510 | KPAL2575J5<br>KPAL2510J5 | KPAL2575R<br>KPAL2510R |
|     |     |          |                      |                          |                        |
| HPS | 400 | 3/4<br>1 | KPAL4075<br>KPAL4010 | KPAL4075J5<br>KPAL4010J5 | KPAL4075R<br>KPAL4010R |
|     |     |          |                      |                          |                        |

### Pendant Cone — One Hub, Rigid Mounting



Shown with 12" Glass Refractor

|     |     |          |                        |                            |                          |
|-----|-----|----------|------------------------|----------------------------|--------------------------|
| HPS | 250 | 3/4<br>1 | KPCHL2575<br>KPCHL2510 | KPCHL2575J5<br>KPCHL2510J5 | KPCHL2575R<br>KPCHL2510R |
|     |     |          |                        |                            |                          |
| HPS | 400 | 3/4<br>1 | KPCHL4075<br>KPCHL4010 | KPCHL4075J5<br>KPCHL4010J5 | KPCHL4075R<br>KPCHL4010R |
|     |     |          |                        |                            |                          |

### Ceiling — Five Hubs, Four Close-Up Plugs



Shown with Enclosed Reflector

|     |     |          |                      |                          |                        |
|-----|-----|----------|----------------------|--------------------------|------------------------|
| HPS | 250 | 3/4<br>1 | KPCL2575<br>KPCL2510 | KPCL2575J5<br>KPCL2510J5 | KPCL2575R<br>KPCL2510R |
|     |     |          |                      |                          |                        |
| HPS | 400 | 3/4<br>1 | KPCL4075<br>KPCL4010 | KPCL4075J5<br>KPCL4010J5 | KPCL4075R<br>KPCL4010R |
|     |     |          |                      |                          |                        |

① For Flexible Pendant Mount, change **A** to **F** in catalog number.

② To order fixture with NEMA Type II refractor, change digits **J5** in catalog number to **J2**. Refractor not available for Z, Z2 or ZB suffix.

③ For fixtures with guards, add suffix **G** before adding voltage suffix. **BG** for refractor. **NG** for enclosed reflector.

④ Add the following voltage and frequency designations before Z2 or ZB suffix:

| Lamp Type                                | Lamp Watts | Voltage Suffixes         |     |    |     |                          |     |     |     |
|------------------------------------------|------------|--------------------------|-----|----|-----|--------------------------|-----|-----|-----|
|                                          |            | MT                       | 5MT | 48 | 125 | 225                      | 226 | 235 | 245 |
| HPS                                      | 250        | X                        | X   | X  | X   | —                        | X   | X   | —   |
| HPS                                      | 400        | X                        | X   | X  | X   | —                        | —   | X   | —   |
| PSMH                                     | 250        | —                        | X   | X  | X   | —                        | —   | X   | —   |
| PSMH                                     | 320        | X                        | X   | X  | X   | —                        | —   | X   | —   |
| PSMH                                     | 350        | X                        | X   | X  | X   | —                        | —   | X   | —   |
| PSMH                                     | 400        | X                        | X   | X  | —   | —                        | —   | X   | —   |
| Voltages:                                |            | 48 - 480 V 60 Hz         |     |    |     | 226 - 220 V 60 Hz        |     |     |     |
| <b>MT</b> - 120/208/240/277 V 60 Hz      |            | <b>125</b> - 120 V 50 Hz |     |    |     | <b>235</b> - 230 V 50 Hz |     |     |     |
| <b>5MT</b> - 120/208/240/277/480 V 60 Hz |            | <b>225</b> - 225 V 50 Hz |     |    |     | <b>245</b> - 240 V 50 Hz |     |     |     |

⑤ Add **Z2** suffix for factory sealed non-sparking/restricted breathing protection (AEx nA nR). Add **ZB** suffix for restricted breathing protection (AEx nR).

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

## 250 W, 400 W HPS

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

| Type Mounting | Lamp Type | Lamp Watts | Hub Size (Inches) | With Globe | Catalog Numbers ③④⑤         |                         |  |
|---------------|-----------|------------|-------------------|------------|-----------------------------|-------------------------|--|
|               |           |            |                   |            | With Type V 12" Refractor ② | With Enclosed Reflector |  |

### Wall Five Hubs, Four Close-Up Plugs



Shown with 12" Glass Refractor

|     |     |     |           |             |            |
|-----|-----|-----|-----------|-------------|------------|
| HPS | 250 | 3/4 | KPWBL2575 | KPWBL2575J5 | KPWBL2575R |
|     |     | 1   | KPWBL2510 | KPWBL2510J5 | KPWBL2510R |
| HPS | 400 | 3/4 | KPWBL4075 | KPWBL4075J5 | KPWBL4075R |
|     |     | 1   | KPWBL4010 | KPWBL4010J5 | KPWBL4010R |

### 25° Stanchion One Hub



Shown with Prismatic Glass Globe and Optional Guard

|     |     |       |           |             |            |
|-----|-----|-------|-----------|-------------|------------|
| HPS | 250 | 1-1/4 | KPSL25125 | KPSL25125J5 | KPSL25125R |
|     |     | 1-1/2 | KPSL25150 | KPSL25150J5 | KPSL25150R |
| HPS | 400 | 1-1/4 | KPSL40125 | KPSL40125J5 | KPSL40125R |
|     |     | 1-1/2 | KPSL40150 | KPSL40150J5 | KPSL40150R |

### 90° Stanchion One Hub



Shown with Prismatic Glass Globe and Optional Guard

|     |     |       |            |              |             |
|-----|-----|-------|------------|--------------|-------------|
| HPS | 250 | 1-1/4 | KPSTL25125 | KPSTL25125J5 | KPSTL25125R |
|     |     | 1-1/2 | KPSTL25150 | KPSTL25150J5 | KPSTL25150R |
| HPS | 400 | 1-1/4 | KPSTL40125 | KPSTL40125J5 | KPSTL40125R |
|     |     | 1-1/2 | KPSTL40150 | KPSTL40150J5 | KPSTL40150R |

② To order fixture with NEMA Type II refractor, change digits **J5** in catalog number to **J2**. Refractor not available for Z, Z2 or ZB suffix.

③ For fixtures with guards, add suffix **G** before adding voltage suffix. **BG** for refractor. **NG** for enclosed reflector.

④ Add the following voltage and frequency designations before Z2 or ZB suffix:

| Lamp Type                         | Lamp Watts | Voltage Suffixes  |     |    |     |                   |     |     |     |
|-----------------------------------|------------|-------------------|-----|----|-----|-------------------|-----|-----|-----|
|                                   |            | MT                | 5MT | 48 | 125 | 225               | 226 | 235 | 245 |
| HPS                               | 250        | X                 | X   | X  | X   | —                 | X   | X   | —   |
| HPS                               | 400        | X                 | X   | X  | X   | —                 | —   | X   | —   |
| PSMH                              | 250        | —                 | X   | X  | X   | —                 | —   | X   | —   |
| PSMH                              | 320        | X                 | X   | X  | X   | —                 | —   | X   | —   |
| PSMH                              | 350        | X                 | X   | X  | X   | —                 | —   | X   | —   |
| PSMH                              | 400        | X                 | X   | X  | —   | —                 | —   | X   | —   |
| Voltages:                         |            | 48 - 480 V 60 Hz  |     |    |     | 226 - 220 V 60 Hz |     |     |     |
| MT - 120/208/240/277 V 60 Hz      |            | 125 - 120 V 50 Hz |     |    |     | 235 - 230 V 50 Hz |     |     |     |
| 5MT - 120/208/240/277/480 V 60 Hz |            | 225 - 225 V 50 Hz |     |    |     | 245 - 240 V 50 Hz |     |     |     |

⑤ Add **Z2** suffix for factory sealed non-sparking/restricted breathing protection (AEx nA nR). Add **ZB** suffix for restricted breathing protection (AEx nR).

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

250 W, 320 W, 350 W, 400 W PSMH

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

## NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

## NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

| Type Mounting                                                                                                            | Lamp Type | Lamp Watts | Hub Size (Inches) | With Globe | Catalog Numbers ③④⑤<br>With Type V 12" Refractor ② | With Enclosed Reflector |
|--------------------------------------------------------------------------------------------------------------------------|-----------|------------|-------------------|------------|----------------------------------------------------|-------------------------|
| Pendant One Hub, Rigid Mounting ①                                                                                        |           |            |                   |            |                                                    |                         |
| <br><br>Shown with Globe                | PSMH      | 250 ⑥      | 3/4               | KPAP2575   | KPAP2575J5                                         | KPAP2575R               |
|                                                                                                                          |           |            | 1                 | KPAP2510   | KPAP2510J5                                         | KPAP2510R               |
|                                                                                                                          | PSMH      | 320        | 3/4               | KPAP3275   | KPAP3275J5                                         | KPAP3275R               |
|                                                                                                                          |           |            | 1                 | KPAP3210   | KPAP3210J5                                         | KPAP3210R               |
|                                                                                                                          | PSMH      | 350        | 3/4               | KPAP3575   | KPAP3575J5                                         | KPAP3575R               |
|                                                                                                                          |           |            | 1                 | KPAP3510   | KPAP3510J5                                         | KPAP3510R               |
|                                                                                                                          | PSMH      | 400        | 3/4               | KPAP4075   | KPAP4075J5                                         | KPAP4075R               |
|                                                                                                                          |           |            | 1                 | KPAP4010   | KPAP4010J5                                         | KPAP4010R               |
| Pendant Cone One Hub, Rigid Mounting                                                                                     |           |            |                   |            |                                                    |                         |
| <br><br>Shown with 12" Glass Refractor | PSMH      | 250 ⑥      | 3/4               | KPCHP2575  | KPCHP2575J5                                        | KPCHP2575R              |
|                                                                                                                          |           |            | 1                 | KPCHP2510  | KPCHP2510J5                                        | KPCHP2510R              |
|                                                                                                                          | PSMH      | 320        | 3/4               | KPCHP3275  | KPCHP3275J5                                        | KPCHP3275R              |
|                                                                                                                          |           |            | 1                 | KPCHP3210  | KPCHP3210J5                                        | KPCHP3210R              |
|                                                                                                                          | PSMH      | 350        | 3/4               | KPCHP3575  | KPCHP3575J5                                        | KPCHP3575R              |
|                                                                                                                          |           |            | 1                 | KPCHP3510  | KPCHP3510J5                                        | KPCHP3510R              |
|                                                                                                                          | PSMH      | 400        | 3/4               | KPCHP4075  | KPCHP4075J5                                        | KPCHP4075R              |
|                                                                                                                          |           |            | 1                 | KPCHP4010  | KPCHP4010J5                                        | KPCHP4010R              |
| Ceiling Five Hubs, Four Close-Up Plugs                                                                                   |           |            |                   |            |                                                    |                         |
| <br><br>Shown with Enclosed Refractor | PSMH      | 250 ⑥      | 3/4               | KPCP2575   | KPCP2575J5                                         | KPCP2575R               |
|                                                                                                                          |           |            | 1                 | KPCP2510   | KPCP2510J5                                         | KPCP2510R               |
|                                                                                                                          | PSMH      | 320        | 3/4               | KPCP3275   | KPCP3275J5                                         | KPCP3275R               |
|                                                                                                                          |           |            | 1                 | KPCP3210   | KPCP3210J5                                         | KPCP3210R               |
|                                                                                                                          | PSMH      | 350        | 3/4               | KPCP3575   | KPCP3575J5                                         | KPCP3575R               |
|                                                                                                                          |           |            | 1                 | KPCP3510   | KPCP3510J5                                         | KPCP3510R               |
|                                                                                                                          | PSMH      | 400        | 3/4               | KPCP4075   | KPCP4075J5                                         | KPCP4075R               |
|                                                                                                                          |           |            | 1                 | KPCP4010   | KPCP4010J5                                         | KPCP4010R               |

① For Flexible Pendant Mount, change **A** to **F** in catalog number.

② To order fixture with NEMA Type II refractor, change digits **J5** in catalog number to **J2**. Refractor not available for Z, Z2 or ZB suffix.

③ For fixtures with guards, add suffix **G** before adding voltage suffix. **BG** for refractor. **NG** for enclosed reflector.

④ Add the following voltage and frequency designations before Z2 or ZB suffix:

| Lamp Type | Lamp Watts | Voltage Suffixes |     |    |     |     |     |     |     |
|-----------|------------|------------------|-----|----|-----|-----|-----|-----|-----|
|           |            | MT               | 5MT | 48 | 125 | 225 | 226 | 235 | 245 |
| HPS       | 250        | X                | X   | X  | X   | —   | X   | X   | —   |
| HPS       | 400        | X                | X   | X  | X   | —   | —   | X   | —   |
| PSMH      | 250        | —                | X   | X  | X   | —   | —   | X   | —   |
| PSMH      | 320        | X                | X   | X  | X   | —   | —   | X   | —   |
| PSMH      | 350        | X                | X   | X  | X   | —   | —   | X   | —   |
| PSMH      | 400        | X                | X   | X  | —   | —   | —   | X   | —   |

Voltagess:

MT - 120/208/240/277 V 60 Hz

5MT - 120/208/240/277/480 V 60 Hz

48 - 480 V 60 Hz

125 - 120 V 50 Hz

225 - 225 V 50 Hz

226 - 220 V 60 Hz

235 - 230 V 50 Hz

245 - 240 V 50 Hz

⑤ Add **Z2** suffix for factory sealed non-sparking/restricted breathing protection (AEx nA nR). Add **ZB** suffix for restricted breathing protection (AEx nR).

⑥ Available for 480 V, 50 Hz and 5MT ballast options. For MT and TT voltage suffix, see Mercmaster III 50-250 Luminaires.

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

250 W, 320 W, 350 W, 400 W PSMH

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

## NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

## NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

| Type Mounting                                                                       | Lamp Type | Lamp Watts | Hub Size (Inches) | With Globe               | Catalog Numbers ③④⑤<br>With Type V 12" Refractor ② | With Enclosed Reflector    |
|-------------------------------------------------------------------------------------|-----------|------------|-------------------|--------------------------|----------------------------------------------------|----------------------------|
| <b>Wall Five Hubs, Four Close-Up Plugs</b>                                          |           |            |                   |                          |                                                    |                            |
|    | PSMH      | 250 ⑥      | 3/4<br>1          | KPWPB2575<br>KPWPB2510   | KPWPB2575J5<br>KPWPB2510J5                         | KPWPB2575R<br>KPWPB2510R   |
|                                                                                     | PSMH      | 320        | 3/4<br>1          | KPWPB3275<br>KPWPB3210   | KPWPB3275J5<br>KPWPB3210J5                         | KPWPB3275R<br>KPWPB3210R   |
|                                                                                     | PSMH      | 350        | 3/4<br>1          | KPWPB3575<br>KPWPB3510   | KPWPB3575J5<br>KPWPB3510J5                         | KPWPB3575R<br>KPWPB3510R   |
|                                                                                     | PSMH      | 400        | 3/4<br>1          | KPWPB4075<br>KPWPB4010   | KPWPB4075J5<br>KPWPB4010J5                         | KPWPB4075R<br>KPWPB4010R   |
| <b>25° Stanchion One Hub</b>                                                        |           |            |                   |                          |                                                    |                            |
|   | PSMH      | 250 ⑥      | 1-1/4<br>1-1/2    | KPSP25125<br>KPSP25150   | KPSP25125J5<br>KPSP25150J5                         | KPSP25125R<br>KPSP25150R   |
|                                                                                     | PSMH      | 320        | 1-1/4<br>1-1/2    | KPSP32125<br>KPSP32150   | KPSP32125J5<br>KPSP32150J5                         | KPSP32125R<br>KPSP32150R   |
|                                                                                     | PSMH      | 350        | 1-1/4<br>1-1/2    | KPSP35125<br>KPSP35150   | KPSP35125J5<br>KPSP35150J5                         | KPSP35125R<br>KPSP35150R   |
|                                                                                     | PSMH      | 400        | 1-1/4<br>1-1/2    | KPSP40125<br>KPSP40150   | KPSP40125J5<br>KPSP40150J5                         | KPSP40125R<br>KPSP40150R   |
| <b>90° Stanchion One Hub</b>                                                        |           |            |                   |                          |                                                    |                            |
|  | PSMH      | 250 ⑥      | 1-1/4<br>1-1/2    | KPSTP25125<br>KPSTP25150 | KPSTP25125J5<br>KPSTP25150J5                       | KPSTP25125R<br>KPSTP25150R |
|                                                                                     | PSMH      | 320        | 1-1/4<br>1-1/2    | KPSTP32125<br>KPSTP32150 | KPSTP32125J5<br>KPSTP32150J5                       | KPSTP32125R<br>KPSTP32150R |
|                                                                                     | PSMH      | 350        | 1-1/4<br>1-1/2    | KPSTP35125<br>KPSTP35150 | KPSTP35125J5<br>KPSTP35150J5                       | KPSTP35125R<br>KPSTP35150R |
|                                                                                     | PSMH      | 400        | 1-1/4<br>1-1/2    | KPSTP40125<br>KPSTP40150 | KPSTP40125J5<br>KPSTP40150J5                       | KPSTP40125R<br>KPSTP40150R |

② To order fixture with NEMA Type II refractor, change digits **J5** in catalog number to **J2**. Refractor not available for Z, Z2 or ZB suffix.

③ For fixtures with guards, add suffix **G** before adding voltage suffix. **BG** for refractor. **NG** for enclosed reflector.

④ Add the following voltage and frequency designations before Z2 or ZB suffix:

| Lamp Type                         | Lamp Watts | Voltage Suffixes  |     |    |     |                   |     |     |     |
|-----------------------------------|------------|-------------------|-----|----|-----|-------------------|-----|-----|-----|
|                                   |            | MT                | 5MT | 48 | 125 | 225               | 226 | 235 | 245 |
| HPS                               | 250        | X                 | X   | X  | X   | —                 | X   | X   | —   |
| HPS                               | 400        | X                 | X   | X  | X   | —                 | —   | X   | —   |
| PSMH                              | 250        | —                 | X   | X  | X   | —                 | —   | X   | —   |
| PSMH                              | 320        | X                 | X   | X  | X   | —                 | —   | X   | —   |
| PSMH                              | 350        | X                 | X   | X  | X   | —                 | —   | X   | —   |
| PSMH                              | 400        | X                 | X   | X  | —   | —                 | —   | X   | —   |
| Voltages:                         |            | 48 - 480 V 60 Hz  |     |    |     | 226 - 220 V 60 Hz |     |     |     |
| MT - 120/208/240/277 V 60 Hz      |            | 125 - 120 V 50 Hz |     |    |     | 235 - 230 V 50 Hz |     |     |     |
| 5MT - 120/208/240/277/480 V 60 Hz |            | 225 - 225 V 50 Hz |     |    |     | 245 - 240 V 50 Hz |     |     |     |

⑤ Add **Z2** suffix for factory sealed non-sparking/restricted breathing protection (AEx nA nR). Add **ZB** suffix for restricted breathing protection (AEx nR).

⑥ Available for 480 V, 50 Hz and 5MT ballast options. For MT and TT voltage suffix, see Mercmaster III 50-250 Luminaires.

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

## High Pressure Sodium and Pulse Start Metal Halide - Hazardous and Wet Locations

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

**NEC/CEC:**  
 Class I, Division 2, Groups A, B, C, D  
 Class I, Zone 2, AEx nA nR IIC (Z2)  
 Class I, Zone 2, AEx nR IIC (ZB)  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III

**NEC/CEC:**  
 Simultaneous Exposure (Class I, Division 2/  
 Class II, Division 1)  
 Fixtures Outside Type (Salt Water)  
 Type 4X  
 IP66

### Mounting Hoods

|                                                                                                                | Description                    | Hub Size (Inches) | Catalog Number |
|----------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------|----------------|
|                               | One Hub, Rigid Mounting        | 3/4               | KPA-75         |
|                                                                                                                |                                | 1                 | KPA-100        |
| <b>Pendant — Flexible</b><br> | One Hub, Flexible Mounting     | 3/4               | KPAF-75        |
|                                                                                                                |                                | 1                 | KPAF-100       |
| <b>Pendant Cone</b><br>       | One Hub, Rigid                 | 3/4               | KPCH-75        |
|                                                                                                                |                                | 1                 | KPCH-100       |
| <b>Ceiling</b><br>            | Five Hubs, Four Close-Up Plugs | 3/4               | KPC-75         |
|                                                                                                                |                                | 1                 | KPC-100        |
| <b>Wall</b><br>               | Five Hubs, Four Close-Up Plugs | 3/4               | KPWB-75        |
|                                                                                                                |                                | 1                 | KPWB-100       |
| <b>25° Stanchion</b><br>    | One Hub                        | 1-1/4             | KPS-125        |
|                                                                                                                |                                | 1-1/2             | KPS-150        |
| <b>90° Stanchion</b><br>    | One Hub                        | 1-1/4             | KPST-125       |
|                                                                                                                |                                | 1-1/2             | KPST-150       |

### Ballast Bodies

|  |            | <b>High Pressure Sodium</b> — Constant Wattage (Min. P.F. 90%)<br><b>Pulse Start Metal Halide</b> — Super Constant Wattage (Min. P.F. 90%) |    |                          |    |     |                          |     |     |     |
|-------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------|----|-----|--------------------------|-----|-----|-----|
| Lamp Type                                                                           | Lamp Watts | Catalog Numbers ②④                                                                                                                         | MT | 5MT                      | 48 | 125 | 225                      | 226 | 235 | 245 |
| HPS                                                                                 | 250        | KPB250L ①③                                                                                                                                 | X  | X                        | X  | X   | —                        | X   | X   | —   |
| HPS                                                                                 | 400        | KPB400L ①③                                                                                                                                 | X  | X                        | X  | X   | —                        | —   | X   | —   |
| PSMH                                                                                | 250        | KPB250P ①③④                                                                                                                                | —  | X                        | X  | X   | —                        | —   | X   | —   |
| PSMH                                                                                | 320        | KPB320P ①③                                                                                                                                 | X  | X                        | X  | X   | —                        | —   | X   | —   |
| PSMH                                                                                | 350        | KPB350P ①③                                                                                                                                 | X  | X                        | X  | X   | —                        | —   | X   | —   |
| PSMH                                                                                | 400        | KPB400P ①③                                                                                                                                 | X  | X                        | X  | —   | —                        | —   | X   | —   |
| Voltages:                                                                           |            |                                                                                                                                            |    | 48 - 480 V 60 Hz         |    |     | 226 - 220 V 60 Hz        |     |     |     |
| <b>MT</b> - 120/208/240/277 V 60 Hz                                                 |            |                                                                                                                                            |    | <b>125</b> - 120 V 50 Hz |    |     | <b>235</b> - 230 V 50 Hz |     |     |     |
| <b>5MT</b> - 120/208/240/277/480 V 60 Hz                                            |            |                                                                                                                                            |    | <b>225</b> - 225 V 50 Hz |    |     | <b>245</b> - 240 V 50 Hz |     |     |     |

① Add **-S** after voltage designation for ballast body with Smart Starter (HPS and PSMH only).

② Add **-E** after voltage designation for ballast body with provision for Quartz Emergency Light (not suitable for hazardous location).

③ Add **Z2** suffix for factory sealed non-sparking/restricted breathing protection (AEx nA nR). Add **ZB** suffix for restricted breathing protection (AEx nR).

④ Not available in MT. See Mercmaster III 50-250 Luminaires.

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

## High Pressure Sodium and Pulse Start Metal Halide - Hazardous and Wet Locations

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2/  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

| Description | Catalog Number |
|-------------|----------------|
|-------------|----------------|

### Prismatic Glass Globes — Heat-Resistant



Glass Globe

Clear

VPGL-4HR

### Enclosed Reflector Assembly



Enclosed Reflector

Heat- and impact-resistant glass lens

KPR-4HB

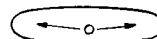
| Light Distribution | IES/NEMA Distribution Curves | Catalog Number |
|--------------------|------------------------------|----------------|
|--------------------|------------------------------|----------------|

### Closed Prismatic Glass Refractors ② — All Heat-Resistant



Glass Refractor

NEMA Type II



KPRF400-2

NEMA Type V



KPRF400-5

| Item | Description | Catalog Number |
|------|-------------|----------------|
|------|-------------|----------------|

### White Polyester Reflectors



Standard and Deep Dome



30° Angle

For use with globe fixtures

Standard Dome

CMR-4ST①

30° Angle

CMR-4AN

Deep Dome

CMR-4DD①

### Guards



Globe Guard



Refractor Guard



Enclosed Refractor Guard

Globe Guard

KPGU400

Refractor Guard

KPBG12

Enclosed Refractor Guard

G-HB7000-NG

① Contact your local sales representative if used with KPWB or KPST mounting hoods.

② Not suitable for use with Z2 or ZB suffixes (Zone 2).

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

## High Pressure Sodium and Pulse Start Metal Halide - Hazardous and Wet Locations

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

**NEC/CEC:**  
 Class I, Division 2, Groups A, B, C, D  
 Class I, Zone 2, AEx nA nR IIC (Z2)  
 Class I, Zone 2, AEx nR IIC (ZB)  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III

**NEC/CEC:**  
 Simultaneous Exposure (Class I, Division 2/  
 Class II, Division 1)  
 Fixtures Outside Type (Salt Water)  
 Type 4X  
 IP66

### Electrical Specifications

| Line Voltage                             | Type of Ballast ① | Frequency | Starting Amps | Operating Amps | Total Watts |
|------------------------------------------|-------------------|-----------|---------------|----------------|-------------|
| <b>250 Watt High Pressure Sodium</b>     |                   |           |               |                |             |
| 120                                      | C.W.A.            | 60        | 2.00          | 2.50           | 295         |
| 208                                      | C.W.A.            | 60        | 1.20          | 1.50           | 295         |
| 240                                      | C.W.A.            | 60        | 1.00          | 1.30           | 295         |
| 277                                      | C.W.A.            | 60        | 0.85          | 1.10           | 295         |
| 480                                      | C.W.A.            | 60        | 0.40          | 0.65           | 295         |
| 120                                      | C.W.A.            | 50        | 1.85          | 2.75           | 300         |
| 230                                      | C.W.A.            | 50        | 0.95          | 1.44           | 300         |
| <b>400 Watt High Pressure Sodium</b>     |                   |           |               |                |             |
| 120                                      | C.W.A.            | 60        | 3.30          | 3.80           | 465         |
| 208                                      | C.W.A.            | 60        | 1.80          | 2.20           | 465         |
| 240                                      | C.W.A.            | 60        | 1.60          | 1.90           | 465         |
| 277                                      | C.W.A.            | 60        | 1.40          | 1.70           | 465         |
| 480                                      | C.W.A.            | 60        | 0.80          | 1.00           | 465         |
| 120                                      | C.W.A.            | 50        | 3.70          | 4.00           | 465         |
| 230                                      | C.W.A.            | 50        | 1.85          | 2.00           | 465         |
| <b>250 Watt Pulse Start Metal Halide</b> |                   |           |               |                |             |
| 120                                      | C.W.A.            | 60        | 1.96          | 2.50           | 291         |
| 208                                      | C.W.A.            | 60        | 1.13          | 1.45           | 291         |
| 240                                      | C.W.A.            | 60        | 0.98          | 1.25           | 291         |
| 277                                      | C.W.A.            | 60        | 0.85          | 1.10           | 291         |
| 480                                      | C.W.A.            | 60        | 0.32          | 0.69           | 298         |
| 480                                      | Super C.W.A.      | 60        | 0.45          | 0.60           | 285         |
| 120                                      | Super C.W.A.      | 50        | 1.90          | 2.60           | 288         |
| 230                                      | Super C.W.A.      | 50        | 1.00          | 1.35           | 288         |
| <b>320 Watt Pulse Start Metal Halide</b> |                   |           |               |                |             |
| 120                                      | Super C.W.A.      | 60        | 2.60          | 3.25           | 368         |
| 208                                      | Super C.W.A.      | 60        | 1.50          | 1.90           | 368         |
| 240                                      | Super C.W.A.      | 60        | 1.30          | 1.65           | 368         |
| 277                                      | Super C.W.A.      | 60        | 1.15          | 1.40           | 368         |
| 480                                      | Super C.W.A.      | 60        | 0.60          | 0.80           | 368         |
| 120                                      | Super C.W.A.      | 50        | 2.28          | 3.05           | 365         |
| 230                                      | Super C.W.A.      | 50        | 1.14          | 1.60           | 365         |
| <b>350 Watt Pulse Start Metal Halide</b> |                   |           |               |                |             |
| 120                                      | Super C.W.A.      | 60        | 3.30          | 3.60           | 400         |
| 208                                      | Super C.W.A.      | 60        | 1.90          | 2.10           | 400         |
| 240                                      | Super C.W.A.      | 60        | 1.65          | 1.80           | 400         |
| 277                                      | Super C.W.A.      | 60        | 1.40          | 1.55           | 400         |
| 480                                      | Super C.W.A.      | 60        | 0.75          | 0.90           | 400         |
| 120                                      | Super C.W.A.      | 50        | 2.45          | 3.34           | 394         |
| 230                                      | Super C.W.A.      | 50        | 1.26          | 1.74           | 394         |
| <b>400 Watt Pulse Start Metal Halide</b> |                   |           |               |                |             |
| 120                                      | Super C.W.A.      | 60        | 3.50          | 4.00           | 454         |
| 208                                      | Super C.W.A.      | 60        | 2.00          | 2.30           | 454         |
| 240                                      | Super C.W.A.      | 60        | 1.75          | 2.00           | 454         |
| 277                                      | Super C.W.A.      | 60        | 1.50          | 1.25           | 454         |
| 480                                      | Super C.W.A.      | 60        | 0.90          | 1.00           | 454         |
| 120                                      | Super C.W.A.      | 50        | 3.17          | 3.90           | 454         |
| 230                                      | Super C.W.A.      | 50        | 1.65          | 2.00           | 454         |

### Fuse Kit

Order fuses as a separate item by catalog number from right columns.

| Lamp Watts | Volts | Fuse Quantity Required | Fuse Catalog Number |      |
|------------|-------|------------------------|---------------------|------|
|            |       |                        | HPS                 | PSMH |
| 250        | 120   | 1                      | F7                  | —    |
|            | 208   | 2                      | F4                  | —    |
|            | 240   | 2                      | F4                  | —    |
|            | 277   | 1                      | F3                  | —    |
|            | 480   | 2                      | F2                  | —    |
|            | 120   | 1                      | F7                  | —    |
| 250        | 230   | 2                      | F4                  | —    |
|            | 480   | 2                      | —                   | F2   |
|            | 230   | 1                      | —                   | F3   |
|            | 120   | 1                      | —                   | F9   |
|            | 208   | 2                      | —                   | F6   |
|            | 240   | 2                      | —                   | F5   |
| 320        | 277   | 1                      | —                   | F4   |
|            | 480   | 2                      | —                   | F3   |
|            | 120   | 1                      | —                   | F10  |
|            | 230   | 2                      | —                   | F5   |
|            | 120   | 1                      | —                   | F10  |
|            | 208   | 2                      | —                   | F7   |
| 350        | 240   | 2                      | —                   | F5   |
|            | 277   | 1                      | —                   | F5   |
|            | 480   | 2                      | —                   | F3   |
|            | 120   | 1                      | —                   | F10  |
|            | 230   | 2                      | —                   | F5   |
|            | 120   | 1                      | F15                 | F10  |
| 400        | 208   | 2                      | F8                  | F7   |
|            | 240   | 2                      | F8                  | F5   |
|            | 277   | 1                      | F5                  | F5   |
|            | 480   | 2                      | F5                  | F3   |
|            | 120   | 1                      | F10                 | F10  |
|            | 230   | 2                      | F6                  | F5   |

① C.W.A. – Constant Wattage Autotransformer. HX-HPF – High Reactance High Power Factor Autotransformer.  
 Super C.W.A. – Super Constant Wattage Autotransformer.

# Mercmaster™ III 400 Luminaire for Hazardous and Wet Locations

## High Pressure Sodium and Pulse Start Metal Halide - Hazardous and Wet Locations

Listed for simultaneous exposure to combustible dusts and flammable gases or vapors.

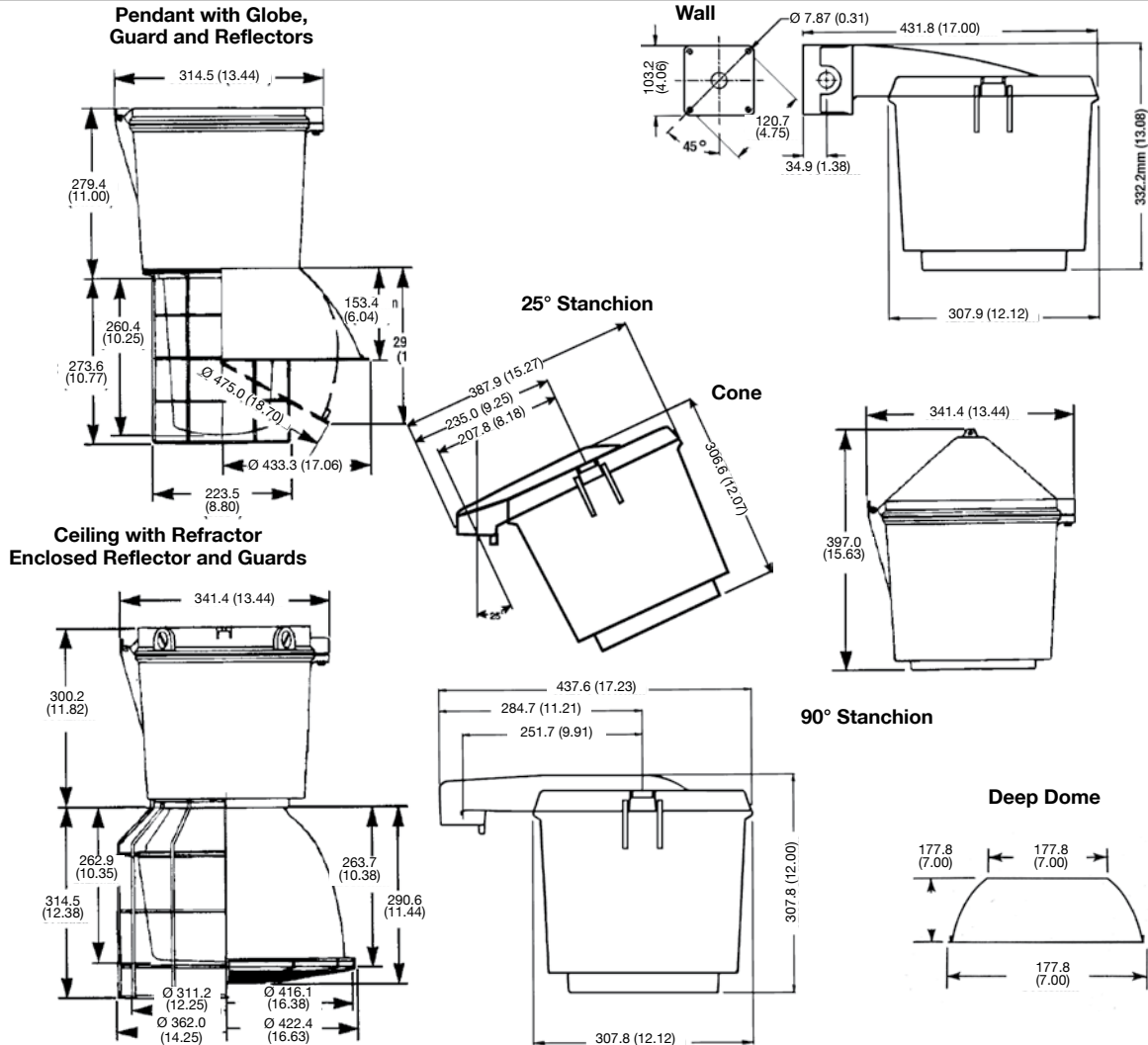
### NEC/CEC:

Class I, Division 2, Groups A, B, C, D  
Class I, Zone 2, AEx nA nR IIC (Z2)  
Class I, Zone 2, AEx nR IIC (ZB)  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

Simultaneous Exposure (Class I, Division 2)  
Class II, Division 1)  
Fixtures Outside Type (Salt Water)  
Type 4X  
IP66

### Dimensions in Millimeters (Inches)



### Mercmaster III – 400 Ballast and Accessory Weights

| Lamp Watts | Ballast Housing Wt. kg (lb) |             | Mounting Hoods and Reflectors | Wt. kg (lb) | Globe Refractor, Enclosed Reflector and Guards | Wt. kg (lb) |
|------------|-----------------------------|-------------|-------------------------------|-------------|------------------------------------------------|-------------|
|            | HPS                         | PSMH        |                               |             |                                                |             |
| 250        | 11.1 (24.5)                 | —           | Pendant                       | 1.0 (2.25)  | Glass Globe                                    | 3.2 (7.0)   |
|            |                             |             | Pendant Cone                  | 1.1 (2.50)  | Globe Guard                                    | 1.4 (3.0)   |
| 320        | —                           | 12.7 (28.0) | Ceiling                       | 1.4 (3.00)  | 12" Glass Refractor                            | 5.4 (12.0)  |
|            |                             |             | Wall                          | 1.8 (4.00)  | Refractor Guard                                | 2.0 (4.5)   |
| 350        | —                           | 12.9 (28.5) | 25° Stanchion                 | 1.5 (3.25)  | Enclosed Reflector                             | 5.0 (11.0)  |
|            |                             |             | 90° Stanchion                 | 1.7 (3.75)  | Enclosed Reflector Guard                       | 0.9 (2.0)   |
| 400        | 12.9 (28.5)                 | 12.9 (28.5) | Standard Dome                 | 1.6 (3.50)  |                                                |             |
|            |                             |             | 30° Angle                     | 1.6 (3.50)  |                                                |             |

Weights are approximate. Add 0.11 kg (0.25 lb). for Quartz option.