

## DESCRIPTION

The Lumark Tribute is the most versatile, functionally designed, universally adaptable outdoor luminaire available. The Tribute brings outstanding performance to walkways, parking lots, roadways, loading docks, building areas, and any security lighting application. UL listed and CSA certified for wet locations.

Catalog #	HPTR-5S-400-MT	Type	A
Project	Woodland	Date	01/25/2012
Comments			
Prepared by			

## SPECIFICATION FEATURES

### Construction

Rugged, one-piece, die-cast aluminum housing and door frame. One-piece silicone gasket protects the optical chamber from performance degrading contaminants. One (1) stainless spring latch and two (2) stainless hinges allow toolless opening and removal of door frame.

### Electrical

Ballast and related electrical componentry are hard mounted to die-cast housing for optimal heat transfer and operating efficiency. Optional swing-down galvanized steel power tray with integral handle and quick disconnects allows tray to be completely removed from housing providing ample room for fixture installation and maintenance.

### Reflector

Choice of nine (9) high efficiency optical distributions, including five (5) segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution. Optical modules are field rotatable in 90° increments and offered standard with mogul-base lampholders for High Pressure Sodium and 200-400W Metal Halide assemblies or medium-base lampholders for Metal Halide 150W and below.

### Mounting

Extruded 8" aluminum arm features internal bolt guides for easy positioning of fixture during installation to pole or wall surface. Standard single carton packaging of housing, square pole arm and round pole adapter allow for consolidated product arrival to site. Optional internal mast arm mount accepts a 1 1/4" to 2 3/8" O.D. horizontal tenon, while a 4-bolt clamping mechanism secures fixture. Cast-in leveling guides provide +/-5° vertical leveling adjustment.

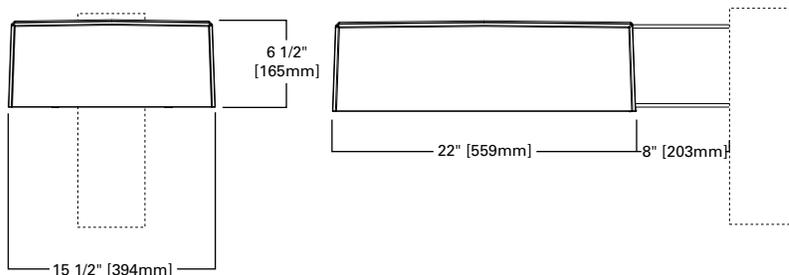
### Finish

Housing and arm finished in a 5-stage premium TGIC bronze polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.



## TR TRIBUTE

**70 - 400W**  
**High Pressure Sodium**  
**Metal Halide**  
**Pulse Start Metal Halide**  
**AREA LUMINAIRE**



### TECHNICAL DATA

UL Wet Locations Listed  
 CSA Certified  
 EISA Compliant

### ENERGY DATA

#### Hi-Reactance Ballast Input Watts

70W HPS HPF (95 Watts)  
 100W HPS HPF (130 Watts)  
 150W HPS HPF (190 Watts)  
 150W MP HPF (185 Watts)

#### CWI Ballast Input Watts

250W HPS HPF (300 Watts)

#### CWA Ballast Input Watts

175W MH HPF (210 Watts)  
 200W MP HPF (227 Watts) @  
 200W MP HPF (227 Watts)  
 200W HPS HPF (250 Watts)  
 250W MH HPF (295 Watts)  
 250W MP HPF (283 Watts) @  
 320W MP HPF (365 Watts) @  
 350W MP HPF (397 Watts) @  
 400W MP HPF (452 Watts) @  
 400W MH HPF (455 Watts)  
 400W HPS HPF (465 Watts)

### EPA DATA

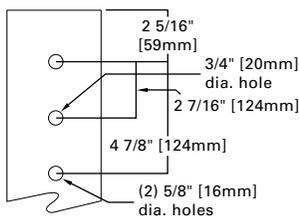
Effective Projected Area: (Sq. Ft.)  
 With Arm: 0.87  
 Without Arm: 1.19

### SHIPPING DATA

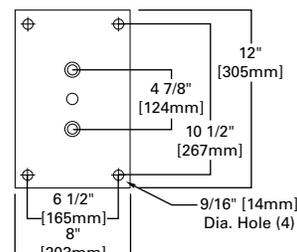
Approximate Net Weight:  
 39 lbs. (17.73 kgs.)

## DRILLING PATTERNS

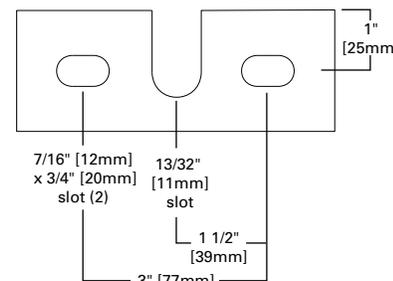
### TYPE "M"



### WALL MOUNT (MA1219-XX)

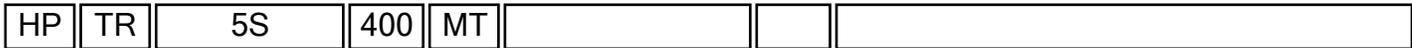


### TRUNNION MOUNT



ORDERING INFORMATION

HPTR-5S-400-MT



**Lamp Type**

- MP**=Pulse Start Metal Halide
- MH**=Metal Halide
- HP**=High Pressure Sodium

**Series <sup>1</sup>**

- TR**=Tribute (Arm Included)

**Distribution**

- 2F**=Type II Formed
- 2S**=Type II Segmented
- 3F**=Type III Formed
- 3S**=Type III Segmented
- 4F**=Type IV Formed
- 4S**=Type IV Segmented
- 5F**=Type V Formed
- 5S**=Type V Segmented
- SL**=Spill Light Eliminator

**Lamp Wattage <sup>2</sup>**

- MP**
- 70**=70W
- 100**=100W
- 150**=150W
- 200**=200W
- 250**=250W
- 320**=320W
- 350**=350W
- 400**=400W<sup>3</sup>
- MH**
- 175**=175W<sup>4</sup>
- 250**=250W<sup>4</sup>
- 400**=400W<sup>3,4</sup>
- HPS**
- 70**=70W
- 100**=100W
- 150**=150W
- 250**=250W
- 400**=400W<sup>3</sup>

**Voltage <sup>5</sup>**

- 120V**=120V
- 208V**=208V
- 240V**=240V
- 277V**=277V
- 347V**=347V<sup>6</sup>
- 480V**=480V
- DT**=Dual-Tap
- MT**=Multi-Tap, wired 277V
- TT**=Triple-Tap, <sup>6</sup>wired 347V
- 5T**=5 Tap Wired<sup>5</sup> 480V

**Options**

- F1**=Single Fuse (120, 277 or 347V<sup>7</sup> only)
- F2**=Double Fuse (208, 240 or 480V<sup>7</sup> only)
- Q**= Quartz Restrike (Hot Strike Only)<sup>8</sup>
- EM**= Quartz Restrike with "Delay Relay" (Quartz lamp strikes at both hot and cold starts)
- EM/SC**= Emergency Separate<sup>8</sup> Circuit
- LL**= Lamp Included
- S**= 1 1/4" - 2 3/8" Internal Mast Arm Mount
- TM**= Trunnion Mount
- PT**= Electrical Power Tray
- PER**= NEMA Twistlock Photocontrol Receptacle
- PC**= Button Type Photocontrol<sup>9</sup>
- HS**= House Side Cutoff<sup>10</sup>
- LA**= Less Arm (Order Mounting Separately)

**Standard Color**

- \_**=Bronze (Standard)
- WH**=White
- BK**=Black
- AP**=Grey
- DP**=Dark Platinum
- GM**=Graphite Metallic

**Accessories <sup>11</sup>**

- MA1201-BZ**=Direct Wall Mount Kit<sup>1</sup>
- MA1218-BZ**=Direct Mount for Pole<sup>1</sup>
- MA1219-BZ**=Wall Mounting Plate
- OA1090-BZ**=Adjustable slipfitter Arm for Tenon Mount 2 3/8" O.D. 1
- MA1221-BZ**= External House Side Shield Kit (EPA= 0.38)
- MA1222**= Internal House Side Shield Kit for 2S/3S
- MA1223**= Internal House Side Shield Kit 4S
- MA1224**= Internal House Side Shield Kit for 2F/3F
- MA1225**= Internal House Side Shield Kit for 4F
- MA1010-BZ**= Single Tenon Adapter for 3 1/2" O.D. Tenon
- MA1011-BZ**= 2 @ 180 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1012-BZ**= 3 @ 120 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1013-BZ**= 4 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1014-BZ**= 2 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1015-BZ**= 2 @ 120 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1016-BZ**= 3 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1017-BZ**= Single Tenon Adapter for 2 3/8" O.D. Tenon
- MA1018-BZ**= 2 @ 180 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1019-BZ**= 3 @ 120 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1045-BZ**= 4 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1048-BZ**=2 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1049-BZ**=3 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- TRVS**=Field Installed Vandal Shield<sup>12</sup>
- OA/RA1013**=Shorting Cap
- OA/RA1016**=Photoelectric Control 105-285V NEMA Type
- OA/RA1027**=Photoelectric Control 480V NEMA Type
- OA/RA1201**=Photoelectric Control 347V NEMA Type

**Notes:** 1 8 Inch Arm and pole adapter included with fixture. Specify Less Arm "LA" option when mounting accessory is ordered separately. 2 150W and below in Pulse Start Metal Halide are medium base sockets. All other wattages are mogul base. 3 Requires reduced envelope lamp. 4 175W, 250W, and 400W MH available in non-U.S. markets only. 5 Products also available in non-US voltages and 50HZ for international markets. Consult your Cooper Representative for availability and ordering information. 5T only available in 400W MH. 6 88% efficient EISA Compliant MP fixtures not available in 347V or TT Voltages. 7 Must specify voltage. 8 Quartz options not available with SL optics. 9 PC not available in 480V. 10 House side shield not available on 5S, 5F, or SL optics. 11 Order separately/replace XX with color specification. 12 Not available with SLE or House Side Shield.

STOCK SAMPLE NUMBER (LAMP INCLUDED)

SAMPLE NUMBER: MPTR2340



**Lamp Type**  
**MP**=Pulse Start Metal Halide  
**HP**=High Pressure Sodium <sup>2</sup>

**Series <sup>1</sup>**  
**TR**=Tribute

**Distribution**  
**23**=Type II/III Formed

**Lamp Wattage**  
**15**=150W  
**25**=250W  
**40**=400W

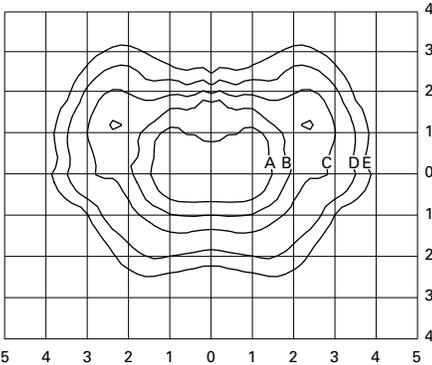
NOTES:

<sup>1</sup> Short logic fixtures are finished bronze include multi-tap ballast, lamp, arm and round pole adapter. Other options not available. Refer to standard ordering logic. <sup>2</sup> Available in 150, 250 and 400 Watt. Refer to In Stock Guide for availability.

LAMP TYPE	WATTAGE
Pulse Start Metal Halide	70, 100, 150, 250, 320, 350, 400W
Metal Halide	175, 250, 400W
High Pressure Sodium	70, 100, 150, 250, 400W

VOLTAGE CHART	
DT= Dual-Tap	120/277 (wired 277V)
MT=Multi-Tap	120/208/240/277 (wired 277V)
TT=Triple-Tap	120/277/347 (wired 347V)
5T=5-Tap	120/208/240/277/480 (wired 480V)

PHOTOMETRICS [COMPLETE IES FILES AVAILABLE AT WWW.COOPERLIGHTING.COM]

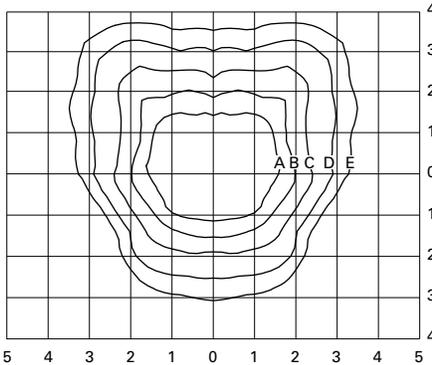


**MPTR-3S-320**  
 320—Watt MP  
 30,000—Lumen Clear Lamp  
 Type III Segmented

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06

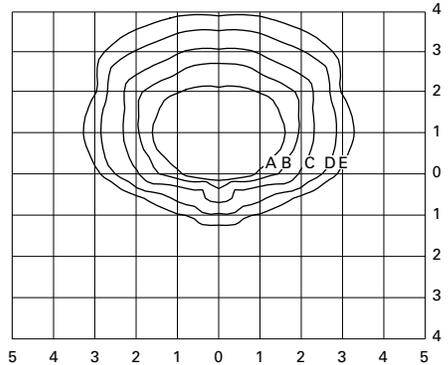


**MPTR-4S-400**  
 400—Watt MP  
 40,000—Lumen Clear Lamp  
 Type IV Segmented

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06



**MPTR-SL-400**  
 400—Watt MP  
 40,000—Lumen Clear Lamp  
 Spill Light Eliminator

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06

MOUNTING CONFIGURATIONS

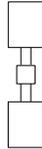
Wall Mount



Arm Mount Single  
 EPA: 1.62



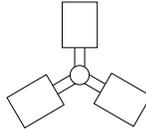
Arm Mount 2 @ 180  
 EPA: 3.24



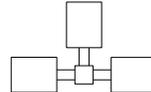
Arm Mount 2 @ 90  
 EPA: 3.24



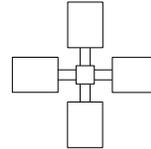
Arm Mount 3 @ 120  
 (Round Pole Only)  
 EPA: 4.43



Arm Mount 3 @ 90  
 EPA: 4.43



Arm Mount 4 @ 90  
 EPA: 5.03



**DESCRIPTION**

The Lumark Tribute is the most versatile, functionally designed, universally adaptable outdoor luminaire available. The Tribute brings outstanding performance to walkways, parking lots, roadways, loading docks, building areas, and any security lighting application. UL listed and CSA certified for wet locations.

<b>Catalog #</b>	HPTR-4S-400-MT	<b>Type</b>	B
<b>Project</b>	Woodland	<b>Date</b>	01/25/2012
<b>Comments</b>			
<b>Prepared by</b>			

**SPECIFICATION FEATURES**

**Construction**

Rugged, one-piece, die-cast aluminum housing and door frame. One-piece silicone gasket protects the optical chamber from performance degrading contaminants. One (1) stainless spring latch and two (2) stainless hinges allow toolless opening and removal of door frame.

**Electrical**

Ballast and related electrical componentry are hard mounted to die-cast housing for optimal heat transfer and operating efficiency. Optional swing-down galvanized steel power tray with integral handle and quick disconnects allows tray to be completely removed from housing providing ample room for fixture installation and maintenance.

**Reflector**

Choice of nine (9) high efficiency optical distributions, including five (5) segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution. Optical modules are field rotatable in 90° increments and offered standard with mogul-base lampholders for High Pressure Sodium and 200-400W Metal Halide assemblies or medium-base lampholders for Metal Halide 150W and below.

**Mounting**

Extruded 8" aluminum arm features internal bolt guides for easy positioning of fixture during installation to pole or wall surface. Standard single carton packaging of housing, square pole arm and round pole adapter allow for consolidated product arrival to site. Optional internal mast arm mount accepts a 1 1/4" to 2 3/8" O.D. horizontal tenon, while a 4-bolt clamping mechanism secures fixture. Cast-in leveling guides provide +/-5° vertical leveling adjustment.

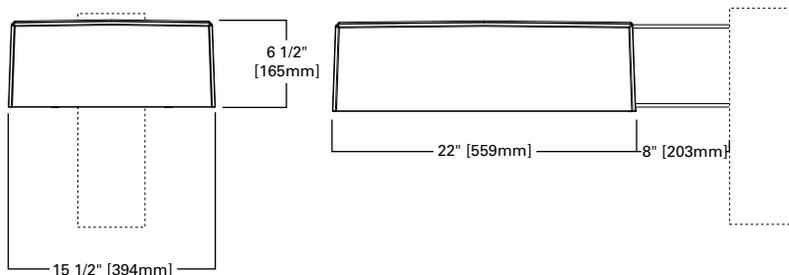
**Finish**

Housing and arm finished in a 5-stage premium TGIC bronze polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.



**TR TRIBUTE**

**70 - 400W**  
**High Pressure Sodium**  
**Metal Halide**  
**Pulse Start Metal Halide**  
**AREA LUMINAIRE**



**TECHNICAL DATA**

UL Wet Locations Listed  
 CSA Certified  
 EISA Compliant

**ENERGY DATA**

**Hi-Reactance Ballast Input Watts**

70W HPS HPF (95 Watts)  
 100W HPS HPF (130 Watts)  
 150W HPS HPF (190 Watts)  
 150W MP HPF (185 Watts)

**CWI Ballast Input Watts**

250W HPS HPF (300 Watts)

**CWA Ballast Input Watts**

175W MH HPF (210 Watts)  
 200W MP HPF (227 Watts) @  
 200W MP HPF (227 Watts)  
 200W HPS HPF (250 Watts)  
 250W MH HPF (295 Watts)  
 250W MP HPF (283 Watts) @  
 320W MP HPF (365 Watts) @  
 350W MP HPF (397 Watts) @  
 400W MP HPF (452 Watts) @  
 400W MH HPF (455 Watts)  
 400W HPS HPF (465 Watts)

**EPA DATA**

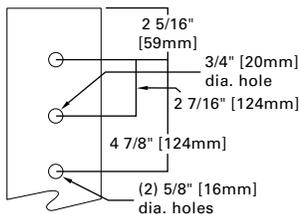
Effective Projected Area: (Sq. Ft.)  
 With Arm: 0.87  
 Without Arm: 1.19

**SHIPPING DATA**

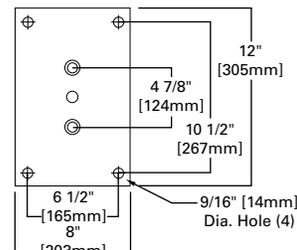
**Approximate Net Weight:**  
 39 lbs. (17.73 kgs.)

**DRILLING PATTERNS**

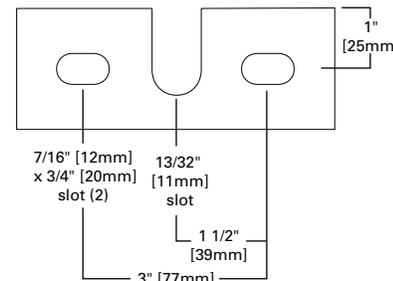
**TYPE "M"**



**WALL MOUNT (MA1219-XX)**



**TRUNNION MOUNT**



ORDERING INFORMATION

HPTR-4S-400-MT



**Lamp Type**

- MP**=Pulse Start Metal Halide
- MH**=Metal Halide
- HP**=High Pressure Sodium

**Series <sup>1</sup>**

- TR**=Tribute (Arm Included)

**Distribution**

- 2F**=Type II Formed
- 2S**=Type II Segmented
- 3F**=Type III Formed
- 3S**=Type III Segmented
- 4F**=Type IV Formed
- 4S**=Type IV Segmented
- 5F**=Type V Formed
- 5S**=Type V Segmented
- SL**=Spill Light Eliminator

**Lamp Wattage <sup>2</sup>**

- MP**
- 70**=70W
- 100**=100W
- 150**=150W
- 200**=200W
- 250**=250W
- 320**=320W
- 350**=350W
- 400**=400W<sup>3</sup>
- MH**
- 175**=175W<sup>4</sup>
- 250**=250W<sup>4</sup>
- 400**=400W<sup>3,4</sup>

**Voltage <sup>5</sup>**

- 120V**=120V
- 208V**=208V
- 240V**=240V
- 277V**=277V
- 347V**=347V<sup>6</sup>
- 480V**=480V
- DT**=Dual-Tap
- MT**=Multi-Tap, wired 277V
- TT**=Triple-Tap, <sup>6</sup>wired 347V
- 5T**=5 Tap Wired<sup>5</sup> 480V

**Options**

- F1**=Single Fuse (120, 277 or 347V<sup>7</sup> only)
- F2**=Double Fuse (208, 240 or 480V<sup>7</sup> only)
- Q**= Quartz Restrike (Hot Strike Only)<sup>8</sup>
- EM**= Quartz Restrike with "Delay Relay" (Quartz lamp strikes at both hot and cold starts)
- EM/SC**= Emergency Separate<sup>8</sup> Circuit
- LL**= Lamp Included
- S**= 1 1/4" - 2 3/8" Internal Mast Arm Mount
- TM**= Trunnion Mount
- PT**= Electrical Power Tray
- PER**= NEMA Twistlock Photocontrol Receptacle
- PC**= Button Type Photocontrol<sup>9</sup>
- HS**= House Side Cutoff<sup>10</sup>
- LA**= Less Arm (Order Mounting Separately)

**Standard Color**

- \_**=Bronze (Standard)
- WH**=White
- BK**=Black
- AP**=Grey
- DP**=Dark Platinum
- GM**=Graphite Metallic

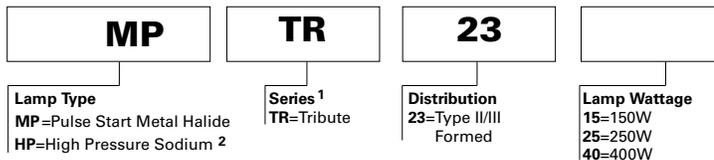
**Accessories <sup>11</sup>**

- MA1201-BZ**=Direct Wall Mount Kit<sup>1</sup>
- MA1218-BZ**=Direct Mount for Pole<sup>1</sup>
- MA1219-BZ**=Wall Mounting Plate
- OA1090-BZ**=Adjustable slipfitter Arm for Tenon Mount 2 3/8" O.D. 1
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- MA1222**= Internal House Side Shield Kit for 2S/3S
- MA1223**= Internal House Side Shield Kit 4S
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- MA1011-BZ**= 2 @ 180 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1012-BZ**= 3 @ 120 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1013-BZ**= 4 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1014-BZ**= 2 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1015-BZ**= 2 @ 120 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1016-BZ**= 3 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1017-BZ**= Single Tenon Adapter for 2 3/8" O.D. Tenon
- MA1018-BZ**= 2 @ 180 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1019-BZ**= 3 @ 120 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1045-BZ**= 4 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1048-BZ**=2 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1049-BZ**=3 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- TRVS**=Field Installed Vandal Shield<sup>12</sup>
- OA/RA1013**=Shorting Cap
- OA/RA1016**=Photoelectric Control 105-285V NEMA Type
- OA/RA1027**=Photoelectric Control 480V NEMA Type
- OA/RA1201**=Photoelectric Control 347V NEMA Type

**Notes:** 1 8 Inch Arm and pole adapter included with fixture. Specify Less Arm "LA" option when mounting accessory is ordered separately. 2 150W and below in Pulse Start Metal Halide are medium base sockets. All other wattages are mogul base. 3 Requires reduced envelope lamp. 4 175W, 250W, and 400W MH available in non-U.S. markets only. 5 Products also available in non-US voltages and 50HZ for international markets. Consult your Cooper Representative for availability and ordering information. 5T only available in 400W MH. 6 88% efficient EISA Compliant MP fixtures not available in 347V or TT Voltages. 7 Must specify voltage. 8 Quartz options not available with SL optics. 9 PC not available in 480V. 10 House side shield not available on 5S, 5F, or SL optics. 11 Order separately/replace XX with color specification. 12 Not available with SLE or House Side Shield.

STOCK SAMPLE NUMBER (LAMP INCLUDED)

SAMPLE NUMBER: MPTR2340

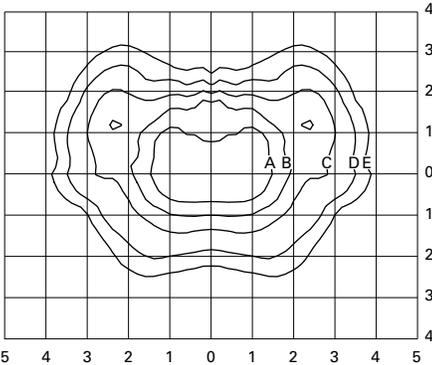


**NOTES:**  
<sup>1</sup> Short logic fixtures are finished bronze include multi-tap ballast, lamp, arm and round pole adapter. Other options not available. Refer to standard ordering logic. <sup>2</sup> Available in 150, 250 and 400 Watt. Refer to In Stock Guide for availability.

LAMP TYPE	WATTAGE
Pulse Start Metal Halide	70, 100, 150, 250, 320, 350, 400W
Metal Halide	175, 250, 400W
High Pressure Sodium	70, 100, 150, 250, 400W

VOLTAGE CHART	
DT= Dual-Tap	120/277 (wired 277V)
MT=Multi-Tap	120/208/240/277 (wired 277V)
TT=Triple-Tap	120/277/347 (wired 347V)
5T=5-Tap	120/208/240/277/480 (wired 480V)

PHOTOMETRICS [COMPLETE IES FILES AVAILABLE AT WWW.COOPERLIGHTING.COM]

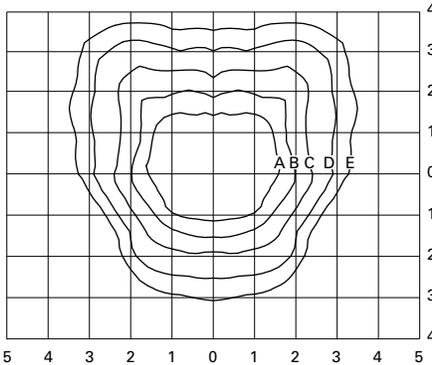


**MPTR-3S-320**  
 320—Watt MP  
 30,000—Lumen Clear Lamp  
 Type III Segmented

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06

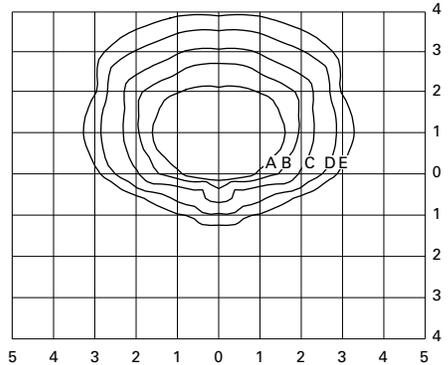


**MPTR-4S-400**  
 400—Watt MP  
 40,000—Lumen Clear Lamp  
 Type IV Segmented

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06



**MPTR-SL-400**  
 400—Watt MP  
 40,000—Lumen Clear Lamp  
 Spill Light Eliminator

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06

MOUNTING CONFIGURATIONS

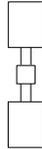
Wall Mount



Arm Mount Single  
 EPA: 1.62



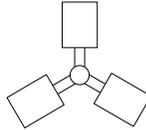
Arm Mount 2 @ 180  
 EPA: 3.24



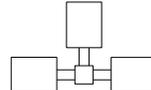
Arm Mount 2 @ 90  
 EPA: 3.24



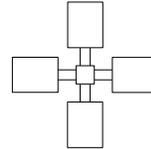
Arm Mount 3 @ 120  
 (Round Pole Only)  
 EPA: 4.43



Arm Mount 3 @ 90  
 EPA: 4.43



Arm Mount 4 @ 90  
 EPA: 5.03



**DESCRIPTION**

The Lumark Tribute is the most versatile, functionally designed, universally adaptable outdoor luminaire available. The Tribute brings outstanding performance to walkways, parking lots, roadways, loading docks, building areas, and any security lighting application. UL listed and CSA certified for wet locations.

Catalog #	HPTR-3F-400-MT	Type	C
Project	Woodland	Date	01/25/2012
Comments			
Prepared by			

**SPECIFICATION FEATURES**

**Construction**

Rugged, one-piece, die-cast aluminum housing and door frame. One-piece silicone gasket protects the optical chamber from performance degrading contaminants. One (1) stainless spring latch and two (2) stainless hinges allow toolless opening and removal of door frame.

**Electrical**

Ballast and related electrical componentry are hard mounted to die-cast housing for optimal heat transfer and operating efficiency. Optional swing-down galvanized steel power tray with integral handle and quick disconnects allows tray to be completely removed from housing providing ample room for fixture installation and maintenance.

**Reflector**

Choice of nine (9) high efficiency optical distributions, including five (5) segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution. Optical modules are field rotatable in 90° increments and offered standard with mogul-base lampholders for High Pressure Sodium and 200-400W Metal Halide assemblies or medium-base lampholders for Metal Halide 150W and below.

**Mounting**

Extruded 8" aluminum arm features internal bolt guides for easy positioning of fixture during installation to pole or wall surface. Standard single carton packaging of housing, square pole arm and round pole adapter allow for consolidated product arrival to site. Optional internal mast arm mount accepts a 1 1/4" to 2 3/8" O.D. horizontal tenon, while a 4-bolt clamping mechanism secures fixture. Cast-in leveling guides provide +/-5° vertical leveling adjustment.

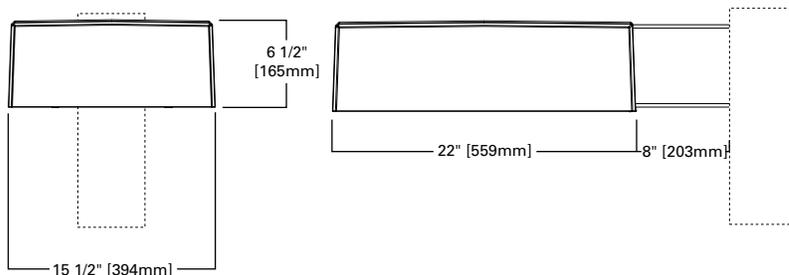
**Finish**

Housing and arm finished in a 5-stage premium TGIC bronze polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.



**TR TRIBUTE**

**70 - 400W**  
**High Pressure Sodium**  
**Metal Halide**  
**Pulse Start Metal Halide**  
**AREA LUMINAIRE**



**TECHNICAL DATA**

UL Wet Locations Listed  
 CSA Certified  
 EISA Compliant

**ENERGY DATA**

**Hi-Reactance Ballast Input Watts**

70W HPS HPF (95 Watts)  
 100W HPS HPF (130 Watts)  
 150W HPS HPF (190 Watts)  
 150W MP HPF (185 Watts)

**CWI Ballast Input Watts**

250W HPS HPF (300 Watts)

**CWA Ballast Input Watts**

175W MH HPF (210 Watts)  
 200W MP HPF (227 Watts) @  
 200W MP HPF (227 Watts)  
 200W HPS HPF (250 Watts)  
 250W MH HPF (295 Watts)  
 250W MP HPF (283 Watts) @  
 320W MP HPF (365 Watts) @  
 350W MP HPF (397 Watts) @  
 400W MP HPF (452 Watts) @  
 400W MH HPF (455 Watts)  
 400W HPS HPF (465 Watts)

**EPA DATA**

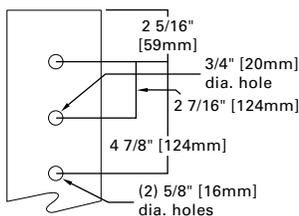
Effective Projected Area: (Sq. Ft.)  
 With Arm: 0.87  
 Without Arm: 1.19

**SHIPPING DATA**

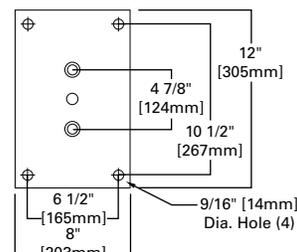
**Approximate Net Weight:**  
 39 lbs. (17.73 kgs.)

**DRILLING PATTERNS**

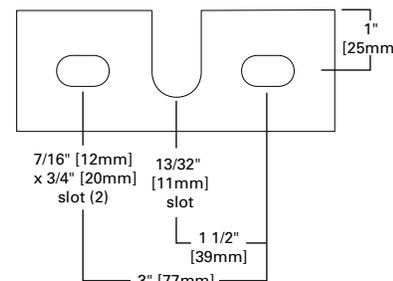
**TYPE "M"**



**WALL MOUNT (MA1219-XX)**



**TRUNNION MOUNT**



ORDERING INFORMATION

HPTR-3F-400-MT



**Lamp Type**

- MP**=Pulse Start Metal Halide
- MH**=Metal Halide
- HP**=High Pressure Sodium

**Series <sup>1</sup>**

- TR**=Tribute (Arm Included)

**Distribution**

- 2F**=Type II Formed
- 2S**=Type II Segmented
- 3F**=Type III Formed
- 3S**=Type III Segmented
- 4F**=Type IV Formed
- 4S**=Type IV Segmented
- 5F**=Type V Formed
- 5S**=Type V Segmented
- SL**=Spill Light Eliminator

**Lamp Wattage <sup>2</sup>**

- MP**
- 70**=70W
- 100**=100W
- 150**=150W
- 200**=200W
- 250**=250W
- 320**=320W
- 350**=350W
- 400**=400W<sup>3</sup>
- MH**
- 175**=175W<sup>4</sup>
- 250**=250W<sup>4</sup>
- 400**=400W<sup>3,4</sup>
- HPS**
- 70**=70W
- 100**=100W
- 150**=150W
- 250**=250W
- 400**=400W<sup>3</sup>

**Voltage <sup>5</sup>**

- 120V**=120V
- 208V**=208V
- 240V**=240V
- 277V**=277V
- 347V**=347V<sup>6</sup>
- 480V**=480V
- DT**=Dual-Tap
- MT**=Multi-Tap, wired 277V
- TT**=Triple-Tap, <sup>6</sup>wired 347V
- 5T**=5 Tap Wired<sup>5</sup> 480V

**Options**

- F1**=Single Fuse (120, 277 or 347V<sup>7</sup> only)
- F2**=Double Fuse (208, 240 or 480V<sup>7</sup> only)
- Q**= Quartz Restrike (Hot Strike Only)<sup>8</sup>
- EM**= Quartz Restrike with "Delay Relay" (Quartz lamp strikes at both hot and cold starts)
- EM/SC**= Emergency Separate<sup>8</sup> Circuit
- LL**= Lamp Included
- S**= 1 1/4" - 2 3/8" Internal Mast Arm Mount
- TM**= Trunnion Mount
- PT**= Electrical Power Tray
- PER**= NEMA Twistlock Photocontrol Receptacle
- PC**= Button Type Photocontrol<sup>9</sup>
- HS**= House Side Cutoff<sup>10</sup>
- LA**= Less Arm (Order Mounting Separately)

**Standard Color**

- \_**=Bronze (Standard)
- WH**=White
- BK**=Black
- AP**=Grey
- DP**=Dark Platinum
- GM**=Graphite Metallic

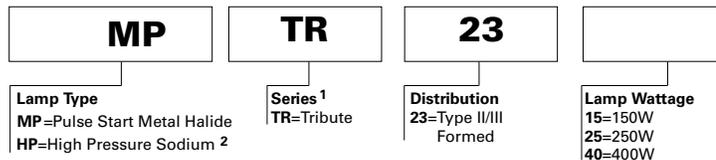
**Accessories <sup>11</sup>**

- MA1201-BZ**=Direct Wall Mount Kit<sup>1</sup>
- MA1218-BZ**=Direct Mount for Pole<sup>1</sup>
- MA1219-BZ**=Wall Mounting Plate
- OA1090-BZ**=Adjustable slipfitter Arm for Tenon Mount 2 3/8" O.D. 1
- MA1221-BZ**= External House Side Shield Kit (EPA= 0.38)
- MA1222**= Internal House Side Shield Kit for 2S/3S
- MA1223**= Internal House Side Shield Kit 4S
- MA1224**= Internal House Side Shield Kit for 2F/3F
- MA1225**= Internal House Side Shield Kit for 4F
- MA1010-BZ**= Single Tenon Adapter for 3 1/2" O.D. Tenon
- MA1011-BZ**= 2 @ 180 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1012-BZ**= 3 @ 120 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1013-BZ**= 4 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1014-BZ**= 2 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1015-BZ**= 2 @ 120 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1016-BZ**= 3 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1017-BZ**= Single Tenon Adapter for 2 3/8" O.D. Tenon
- MA1018-BZ**= 2 @ 180 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1019-BZ**= 3 @ 120 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1045-BZ**= 4 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1048-BZ**=2 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1049-BZ**=3 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- TRVS**=Field Installed Vandal Shield<sup>12</sup>
- OA/RA1013**=Shorting Cap
- OA/RA1016**=Photoelectric Control 105-285V NEMA Type
- OA/RA1027**=Photoelectric Control 480V NEMA Type
- OA/RA1201**=Photoelectric Control 347V NEMA Type

**Notes:** 1 8 Inch Arm and pole adapter included with fixture. Specify Less Arm "LA" option when mounting accessory is ordered separately. 2 150W and below in Pulse Start Metal Halide are medium base sockets. All other wattages are mogul base. 3 Requires reduced envelope lamp. 4 175W, 250W, and 400W MH available in non-U.S. markets only. 5 Products also available in non-US voltages and 50HZ for international markets. Consult your Cooper Representative for availability and ordering information. 5T only available in 400W MH. 6 88% efficient EISA Compliant MP fixtures not available in 347V or TT Voltages. 7 Must specify voltage. 8 Quartz options not available with SL optics. 9 PC not available in 480V. 10 House side shield not available on 5S, 5F, or SL optics. 11 Order separately/replace XX with color specification. 12 Not available with SLE or House Side Shield.

STOCK SAMPLE NUMBER (LAMP INCLUDED)

SAMPLE NUMBER: MPTR2340



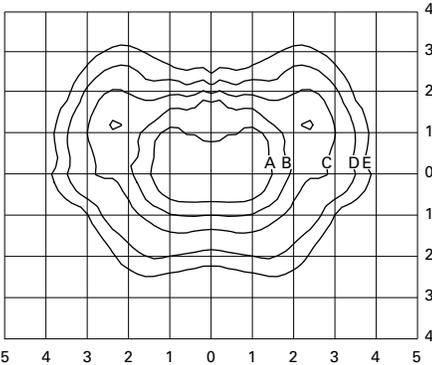
NOTES:

<sup>1</sup> Short logic fixtures are finished bronze include multi-tap ballast, lamp, arm and round pole adapter. Other options not available. Refer to standard ordering logic. <sup>2</sup> Available in 150, 250 and 400 Watt. Refer to In Stock Guide for availability.

LAMP TYPE	WATTAGE
Pulse Start Metal Halide	70, 100, 150, 250, 320, 350, 400W
Metal Halide	175, 250, 400W
High Pressure Sodium	70, 100, 150, 250, 400W

VOLTAGE CHART	
DT= Dual-Tap	120/277 (wired 277V)
MT=Multi-Tap	120/208/240/277 (wired 277V)
TT=Triple-Tap	120/277/347 (wired 347V)
5T=5-Tap	120/208/240/277/480 (wired 480V)

PHOTOMETRICS [COMPLETE IES FILES AVAILABLE AT WWW.COOPERLIGHTING.COM]

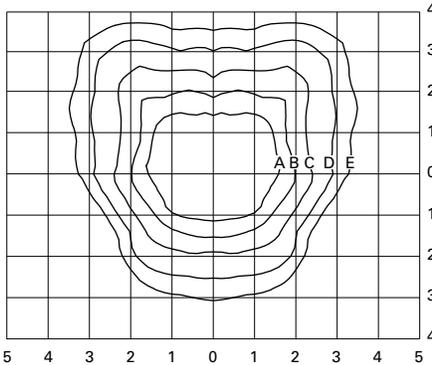


**MPTR-3S-320**  
 320—Watt MP  
 30,000—Lumen Clear Lamp  
 Type III Segmented

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06

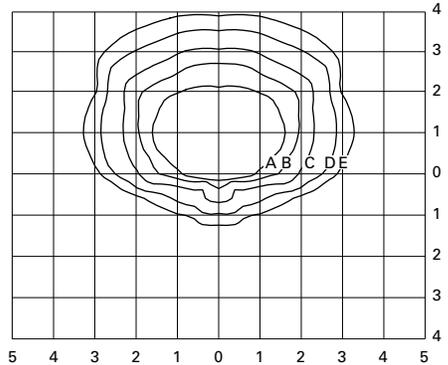


**MPTR-4S-400**  
 400—Watt MP  
 40,000—Lumen Clear Lamp  
 Type IV Segmented

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06



**MPTR-SL-400**  
 400—Watt MP  
 40,000—Lumen Clear Lamp  
 Spill Light Eliminator

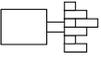
**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06

MOUNTING CONFIGURATIONS

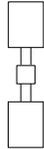
Wall Mount



Arm Mount Single  
 EPA: 1.62



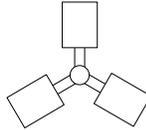
Arm Mount 2 @ 180  
 EPA: 3.24



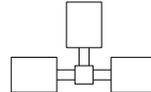
Arm Mount 2 @ 90  
 EPA: 3.24



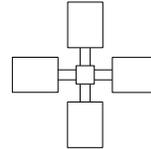
Arm Mount 3 @ 120  
 (Round Pole Only)  
 EPA: 4.43



Arm Mount 3 @ 90  
 EPA: 4.43



Arm Mount 4 @ 90  
 EPA: 5.03



**DESCRIPTION**

The Lumark Tribute is the most versatile, functionally designed, universally adaptable outdoor luminaire available. The Tribute brings outstanding performance to walkways, parking lots, roadways, loading docks, building areas, and any security lighting application. UL listed and CSA certified for wet locations.

Catalog #	HPTR-3F-400-MT	Type	D
Project	Woodland	Date	01/25/2012
Comments			
Prepared by			

**SPECIFICATION FEATURES**

**Construction**

Rugged, one-piece, die-cast aluminum housing and door frame. One-piece silicone gasket protects the optical chamber from performance degrading contaminants. One (1) stainless spring latch and two (2) stainless hinges allow toolless opening and removal of door frame.

**Electrical**

Ballast and related electrical componentry are hard mounted to die-cast housing for optimal heat transfer and operating efficiency. Optional swing-down galvanized steel power tray with integral handle and quick disconnects allows tray to be completely removed from housing providing ample room for fixture installation and maintenance.

**Reflector**

Choice of nine (9) high efficiency optical distributions, including five (5) segmented optical systems constructed of premium 95% reflective anodized aluminum sheet. Optical segments are rigidly mounted inside a thick gauge aluminum housing for superior protection. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution. Optical modules are field rotatable in 90° increments and offered standard with mogul-base lampholders for High Pressure Sodium and 200-400W Metal Halide assemblies or medium-base lampholders for Metal Halide 150W and below.

**Mounting**

Extruded 8" aluminum arm features internal bolt guides for easy positioning of fixture during installation to pole or wall surface. Standard single carton packaging of housing, square pole arm and round pole adapter allow for consolidated product arrival to site. Optional internal mast arm mount accepts a 1 1/4" to 2 3/8" O.D. horizontal tenon, while a 4-bolt clamping mechanism secures fixture. Cast-in leveling guides provide +/-5° vertical leveling adjustment.

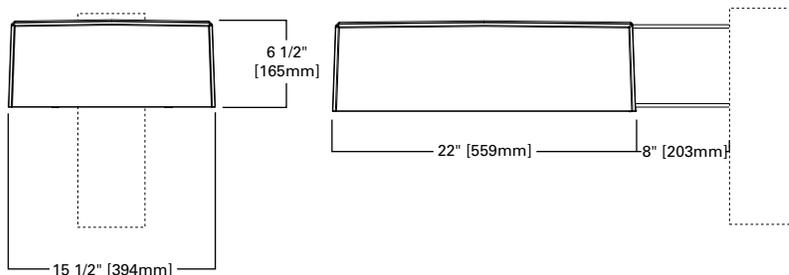
**Finish**

Housing and arm finished in a 5-stage premium TGIC bronze polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.



**TR TRIBUTE**

**70 - 400W**  
**High Pressure Sodium**  
**Metal Halide**  
**Pulse Start Metal Halide**  
**AREA LUMINAIRE**



**TECHNICAL DATA**

UL Wet Locations Listed  
 CSA Certified  
 EISA Compliant

**ENERGY DATA**

**Hi-Reactance Ballast Input Watts**

70W HPS HPF (95 Watts)  
 100W HPS HPF (130 Watts)  
 150W HPS HPF (190 Watts)  
 150W MP HPF (185 Watts)

**CWI Ballast Input Watts**

250W HPS HPF (300 Watts)

**CWA Ballast Input Watts**

175W MH HPF (210 Watts)  
 200W MP HPF (227 Watts) @  
 200W MP HPF (227 Watts)  
 200W HPS HPF (250 Watts)  
 250W MH HPF (295 Watts)  
 250W MP HPF (283 Watts) @  
 320W MP HPF (365 Watts) @  
 350W MP HPF (397 Watts) @  
 400W MP HPF (452 Watts) @  
 400W MH HPF (455 Watts)  
 400W HPS HPF (465 Watts)

**EPA DATA**

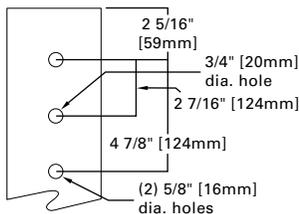
Effective Projected Area: (Sq. Ft.)  
 With Arm: 0.87  
 Without Arm: 1.19

**SHIPPING DATA**

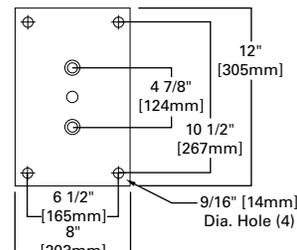
**Approximate Net Weight:**  
 39 lbs. (17.73 kgs.)

**DRILLING PATTERNS**

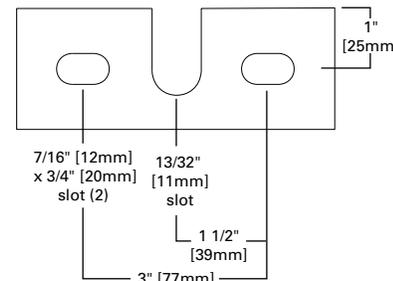
**TYPE "M"**



**WALL MOUNT (MA1219-XX)**



**TRUNNION MOUNT**



ORDERING INFORMATION

HPTR-3F-400-MT

HP	TR	3F	400	MT			See Below
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**Lamp Type**

- MP**=Pulse Start Metal Halide
- MH**=Metal Halide
- HP**=High Pressure Sodium

**Series <sup>1</sup>**

- TR**=Tribute (Arm Included)

**Distribution**

- 2F**=Type II Formed
- 2S**=Type II Segmented
- 3F**=Type III Formed
- 3S**=Type III Segmented
- 4F**=Type IV Formed
- 4S**=Type IV Segmented
- 5F**=Type V Formed
- 5S**=Type V Segmented
- SL**=Spill Light Eliminator

**Lamp Wattage <sup>2</sup>**

- MP**
- 70**=70W
- 100**=100W
- 150**=150W
- 200**=200W
- 250**=250W
- 320**=320W
- 350**=350W
- 400**=400W<sup>3</sup>
- MH**
- 175**=175W<sup>4</sup>
- 250**=250W<sup>4</sup>
- 400**=400W<sup>3,4</sup>
- HPS**
- 70**=70W
- 100**=100W
- 150**=150W
- 250**=250W
- 400**=400W<sup>3</sup>

**Voltage <sup>5</sup>**

- 120V**=120V
- 208V**=208V
- 240V**=240V
- 277V**=277V
- 347V**=347V<sup>6</sup>
- 480V**=480V
- DT**=Dual-Tap
- MT**=Multi-Tap, wired 277V
- TT**=Triple-Tap, <sup>6</sup>wired 347V
- 5T**=5 Tap Wired<sup>5</sup> 480V

**Options**

- F1**=Single Fuse (120, 277 or 347V<sup>7</sup> only)
- F2**=Double Fuse (208, 240 or 480V<sup>7</sup> only)
- Q**= Quartz Restrike (Hot Strike Only)<sup>8</sup>
- EM**= Quartz Restrike with "Delay Relay" (Quartz lamp strikes at both hot and cold starts)
- EM/SC**= Emergency Separate<sup>8</sup> Circuit
- LL**= Lamp Included
- S**= 1 1/4" - 2 3/8" Internal Mast Arm Mount
- TM**= Trunnion Mount
- PT**= Electrical Power Tray
- PER**= NEMA Twistlock Photocontrol Receptacle
- PC**= Button Type Photocontrol<sup>9</sup>
- HS**= House Side Cutoff<sup>10</sup>
- LA**= Less Arm (Order Mounting Separately)

**Standard Color**

- \_**=Bronze (Standard)
- WH**=White
- BK**=Black
- AP**=Grey
- DP**=Dark Platinum
- GM**=Graphite Metallic

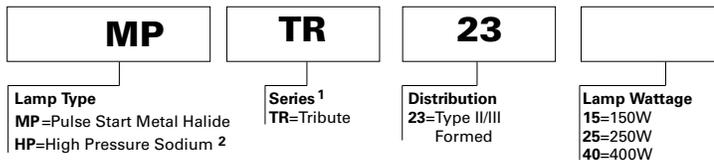
**Accessories <sup>11</sup>**

- MA1201-BZ**=Direct Wall Mount Kit<sup>1</sup>
- MA1218-BZ**=Direct Mount for Pole<sup>1</sup>
- MA1219-BZ**=Wall Mounting Plate
- OA1090-BZ**=Adjustable slipfitter Arm for Tenon Mount 2 3/8" O.D. 1
- MA1221-BZ**= External House Side Shield Kit (EPA= 0.38)
- MA1222**= Internal House Side Shield Kit for 2S/3S
- MA1223**= Internal House Side Shield Kit 4S
- MA1224**= Internal House Side Shield Kit for 2F/3F
- MA1225**= Internal House Side Shield Kit for 4F
- MA1010-BZ**= Single Tenon Adapter for 3 1/2" O.D. Tenon
- MA1011-BZ**= 2 @ 180 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1012-BZ**= 3 @ 120 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1013-BZ**= 4 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1014-BZ**= 2 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1015-BZ**= 2 @ 120 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1016-BZ**= 3 @ 90 degrees Tenon Adapter for 3 1/2" O.D. Tenon
- MA1017-BZ**= Single Tenon Adapter for 2 3/8" O.D. Tenon
- MA1018-BZ**= 2 @ 180 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1019-BZ**= 3 @ 120 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1045-BZ**= 4 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1048-BZ**=2 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- MA1049-BZ**=3 @ 90 degrees Tenon Adapter for 2 3/8" O.D. Tenon
- TRVS**=Field Installed Vandal Shield<sup>12</sup>
- OA/RA1013**=Shorting Cap
- OA/RA1016**=Photoelectric Control 105-285V NEMA Type
- OA/RA1027**=Photoelectric Control 480V NEMA Type
- OA/RA1201**=Photoelectric Control 347V NEMA Type

**Notes:** 1 8 Inch Arm and pole adapter included with fixture. Specify Less Arm "LA" option when mounting accessory is ordered separately. 2 150W and below in Pulse Start Metal Halide are medium base sockets. All other wattages are mogul base. 3 Requires reduced envelope lamp. 4 175W, 250W, and 400W MH available in non-U.S. markets only. 5 Products also available in non-US voltages and 50HZ for international markets. Consult your Cooper Representative for availability and ordering information. 5T only available in 400W MH. 6 88% efficient EISA Compliant MP fixtures not available in 347V or TT Voltages. 7 Must specify voltage. 8 Quartz options not available with SL optics. 9 PC not available in 480V. 10 House side shield not available on 5S, 5F, or SL optics. 11 Order separately/replace XX with color specification. 12 Not available with SLE or House Side Shield.

STOCK SAMPLE NUMBER (LAMP INCLUDED)

SAMPLE NUMBER: MPTR2340



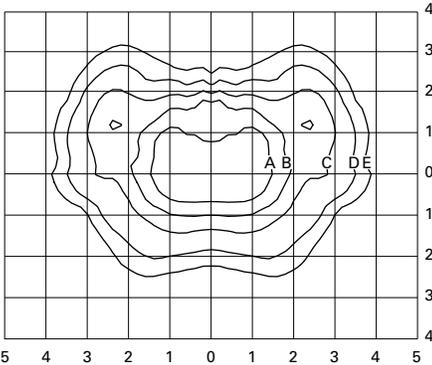
NOTES:

<sup>1</sup> Short logic fixtures are finished bronze include multi-tap ballast, lamp, arm and round pole adapter. Other options not available. Refer to standard ordering logic. <sup>2</sup> Available in 150, 250 and 400 Watt. Refer to In Stock Guide for availability.

LAMP TYPE	WATTAGE
Pulse Start Metal Halide	70, 100, 150, 250, 320, 350, 400W
Metal Halide	175, 250, 400W
High Pressure Sodium	70, 100, 150, 250, 400W

VOLTAGE CHART	
DT= Dual-Tap	120/277 (wired 277V)
MT=Multi-Tap	120/208/240/277 (wired 277V)
TT=Triple-Tap	120/277/347 (wired 347V)
5T=5-Tap	120/208/240/277/480 (wired 480V)

PHOTOMETRICS [COMPLETE IES FILES AVAILABLE AT WWW.COOPERLIGHTING.COM]

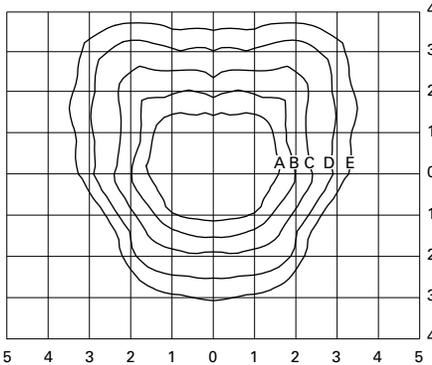


**MPTR-3S-320**  
 320—Watt MP  
 30,000—Lumen Clear Lamp  
 Type III Segmented

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06

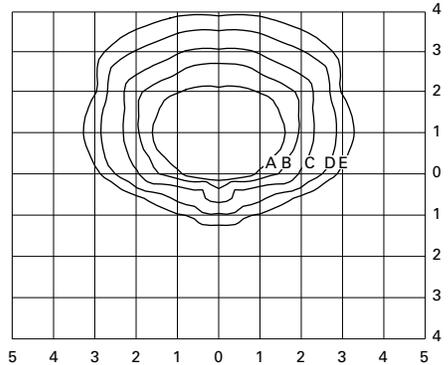


**MPTR-4S-400**  
 400—Watt MP  
 40,000—Lumen Clear Lamp  
 Type IV Segmented

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06



**MPTR-SL-400**  
 400—Watt MP  
 40,000—Lumen Clear Lamp  
 Spill Light Eliminator

**Footcandle Table**

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Height	Footcandle Values for Isofootcandle Lines				
	A	B	C	D	E
20'	3.00	1.50	0.75	0.30	0.15
<b>25'</b>	<b>2.00</b>	<b>1.00</b>	<b>0.50</b>	<b>0.20</b>	<b>0.10</b>
30'	1.38	0.69	0.34	0.13	0.06

MOUNTING CONFIGURATIONS

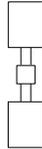
Wall Mount



Arm Mount Single  
 EPA: 1.62



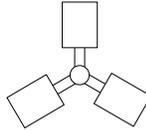
Arm Mount 2 @ 180  
 EPA: 3.24



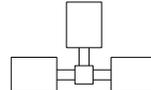
Arm Mount 2 @ 90  
 EPA: 3.24



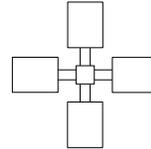
Arm Mount 3 @ 120  
 (Round Pole Only)  
 EPA: 4.43



Arm Mount 3 @ 90  
 EPA: 4.43

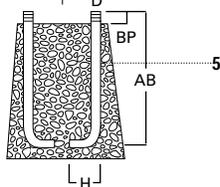
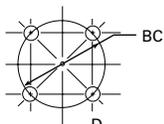
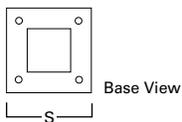
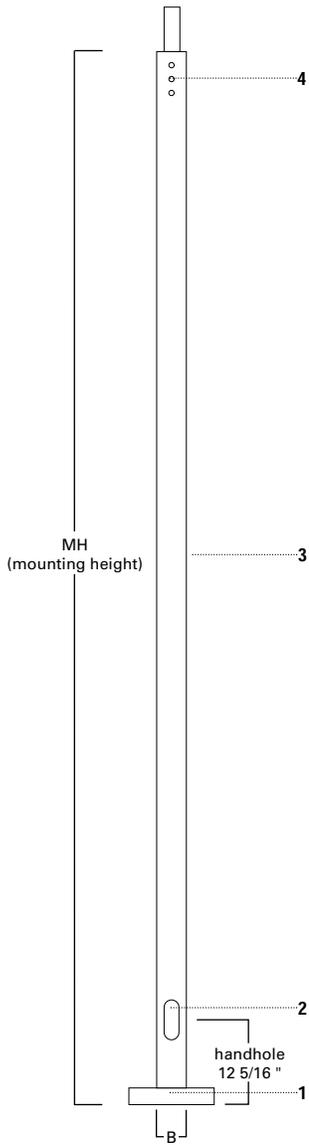


Arm Mount 4 @ 90  
 EPA: 5.03



# SSS SQUARE STRAIGHT STEEL

10'—39' MOUNTING HEIGHT



## SPECIFICATION FEATURES

- 1... ASTM Grade steel base plate with ASTM A366 base cover.
- 2... Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole.
- 3... ASTM A500 grade "B" steel shaft. Shot blasted and painted with polyester powder coat.
- 4... Drilled or Tenon (specify).
- 5... Anchor bolt per ASTM A576 with (2) nuts, (2) flat washer, and (1) lock washer. Nuts, washers and threaded portion of bolt are hot dip galvanized. 3" hook for 3/4" bolt. 4" hook for 1" bolt.

## FOUR BOLT ANCHORAGE [See ordering information]

- BC=Bolt Circle
- BP=Bolt Projection
- AB=Bolt Dimensions
- D=Bolt Diameter
- H=Bolt Dimensions

## FINISH COLORS [See ordering information]

- F=Dark Bronze
- G=Galvanized
- V=Grey
- W=White
- Y=Black

**WARNING:** THE USE OF UNAUTHORIZED ACCESSORIES SUCH AS BANNERS, SIGNS OR PENNANTS FOR WHICH THE POLE WAS NOT DESIGNED FOR VOIDS THE COOPER LIGHTING WARRANTY AND MAY RESULT IN POLE FAILURE CAUSING SERIOUS INJURY OR PROPERTY DAMAGE. COOPER LIGHTING'S POLE WARRANTY IS ALSO VOIDED IF LUMINAIRE IS NOT INSTALLED AT TIME OF POLE INSTALLATION.

ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

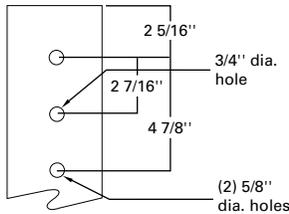
Square	Straight	Steel	Shaft <sup>3</sup> Size	Wall Thickness	Mounting Height (ft.)	Base Type	Finish	Fixture Mounting & Type	No. & Location of Arms	Arm Lengths	Accessories (Ground Lug)
S	S	S	5	A	20	S	F	M	1	X	G

Mtg. Height	Catalog <sup>1,2</sup> Number	Wall Thickness	Base Square (In.)	Bolt Circle Dia. (In.)	Bolt Proj. (In.)	Shaft Size (In.)	Anchor Bolt Dia. & Length (In.)	Net. Wt. (Lbs.)	EPA (Sq. Ft.) <sup>4</sup> At Pole Top			EPA (Sq. Ft.) <sup>4</sup> 2' Above Pole Top			Load—Include Bracket (Lbs.)		Max. Fixture (Lbs.)
									70	80	90	100	70	80	90	100	
10	SSS4A10SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	96	39.8	29.9	23.2	18.4	33.0	24.8	19.3	15.3	150
15	SSS4A15SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	133	19.6	14.4	10.8	8.2	17.2	12.7	9.5	7.3	150
20	SSS4A20SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	152	12.9	9.1	6.5	4.6	11.7	8.2	5.9	4.2	200
25	SSS4A25SF	.120	10 1/2	11.0	4 1/2	4	3/4 x 25 x 3	208	8.7	5.6	3.6	2.1	8.0	5.2	3.3	2.0	200
20	SSS5A20SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	202	21.9	15.7	11.6	8.5	19.9	14.3	10.5	7.7	200
25	SSS5A25SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	248	15.5	10.5	7.2	4.8	14.3	9.8	6.6	4.4	200
30	SSS5A30SF	.120	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	293	8.2	4.6	2.1	--	7.7	4.3	2.0	--	300
35	SSS5M35SF	.188	10 1/2	11.0	4 1/2	5	3/4 x 25 x 3	480	11.8	7.1	3.8	1.5	11.1	6.6	3.6	1.4	300
25	SSS6A25SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	295	24.1	16.8	12.0	8.5	22.2	15.6	11.1	7.8	200
30	SSS6A30SF	.120	12 1/2	12.5	5	6	1 x 36 x 4	347	14.0	8.7	5.0	2.5	13.1	8.2	4.7	2.3	300
30	SSS6M30SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	505	26.4	18.1	12.5	8.4	24.7	16.9	11.6	7.9	300
35	SSS6M35SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	584	19.7	12.7	7.9	4.4	18.6	12.0	7.5	4.2	300
35	SSS6X35SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	696	28.9	19.7	13.4	8.9	26.4	18.6	12.7	8.4	300
39	SSS6M39SF	.188	12 1/2	12.5	5	6	1 x 36 x 4	647	15.4	9.1	4.8	1.8	14.6	8.7	4.6	1.7	300
39	SSS6X39SF	.250	12 1/2	12.5	5	6	1 x 36 x 4	822	23.5	15.4	9.8	5.7	22.4	14.6	9.3	5.4	300

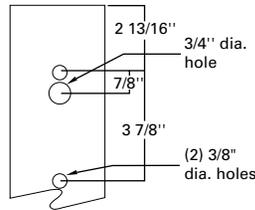
- NOTES: 1 Catalog number includes pole with anchor bolts with double nuts (BEFORE INSTALLING ANCHOR BOLTS MAKE SURE PROPER ANCHOR BOLT TEMPLATE IS OBTAINED FROM COOPER LIGHTING).
- 2 Tenon size or machining for rectangular arms must be specified. Hand hole is located 180° from single arm.
- 3 Shaft size, base plate, anchor bolts and projections may vary slightly—all dimensions nominal.
- 4 EPA's based on shaft properties with wind normal to flat. EPA's calculated using base wind velocity as indicated plus 30% gust factor.

DRILLING PATTERN

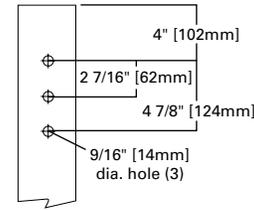
Type "M" [RCL, Landau, Galleria and Vision]



Type "E" [Concourse III]



Type "Z" [Credenza and Cirrus]



MACHINING FOR RECTANGULAR ARMS [Add as suffix]

Designation Letter & Number	Designation Letter & Number	Designation Letter & Number	Quantity & Location
M1	E1	Z1	Single
M2	E2	Z2	2 @ 180°
M3	E3	Z3	3 @ 120°
M4	E4	Z4	4 @ 90°
M5	E5	Z5	2 @ 90°
M6	E6	Z6	3 @ 90°
M7	E7	Z7	2 @ 120°

NOTES: Refer to Fixture Drilling Options on page 160.

MOUNTING OPTIONS [Add as suffix]

Designation Number	O.D. (In.)	Length (In.)
1	2 3/8	3 1/2
2	2 3/8	4
3	3 1/2	5
9	3	4

ACCESSORIES

- A=1/2" tapped hub<sup>1</sup>
- B=3/4" tapped hub<sup>1</sup>
- C=Convenience outlet<sup>2</sup>
- G=Grounding lug (max. wire #8 AWG)
- H=Additional hand hole and cover—12" below pole top—90° from hand hole.

- NOTES: 1 Location is 3' above base—90° from hand hole.
- 2 Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only.

NOTE: Specifications and dimensions subject to change without notice.