THE RIGHT CHOICE
From the parking lot to the highway, Tribute is the ideal lighting solution for area and roadway applications. Tribute’s rugged die-cast construction and classic form provide enduring performance and universal appeal. Coupled with contractor-friendly features such as toolless entry and an optional electrical power tray, Tribute is a breeze to install and maintain.

OPTIMAL PERFORMANCE
Tribute is available with nine (9) uniquely shaped optical distributions, each classifying as dark sky friendly IESNA full cutoff. Whether selecting a high efficiency hydroformed optic or a premium 95% reflective segmented reflector, Tribute’s optical versatility provides custom tailored lighting solutions for exacting site requirements. Tribute also features Cooper’s-exclusive SLE Spill Light Eliminator optic which provides outstanding cutoff behind the pole and maximum street-side reach.

MOUNTING VERSATILITY
Tribute is offered in five (5) distinct mounting configurations, providing unrivaled versatility in mounting. Choose from arm mount, mast arm or wall mount for horizontal fixture attachment, or trunnion or slipfitter mount for vertical tilt adjustment.
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 steel hinges allow toolless opening and removal of door frame.

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 150-400W assemblies or medium-base lampholders for 100W and below.

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.

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 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.

ROTATIONAL FLEXIBILITY
Optical assemblies can be rotated in 90° increments, allowing for manipulation of distribution orientation independent of fixture orientation.
**ELECTRICAL POWER TRAY (PT)**
Electrical componentry mounted to an optional swing-down galvanized steel power tray with integral handle. Electrical disconnects allow tray to be completely removed from housing providing ample hand and tool room during fixture maintenance and installation.

**EXTERNAL HOUSE SIDE SHIELD [MA1221]**
External house side shield designed to provide sharp cutoff behind pole while shielding the lamp from direct view. Mounted to the door via four (4) stainless steel fasteners, the MA1221 external house side shield provides industry leading glare and spill light control.

**VANDAL SHIELD [TR/VS]**
Door mounted 3/16" thick polycarbonate shield prevents lens damage from particulates and projectiles. Treated with a UV inhibitor to discourage the gradual discoloration that results from exposure to UV emitting sources.

**PREMIUM SEGMENTED OPTICS**
Five (5) optional high efficiency 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.

**QUARTZ RESTRIKE [Q, EM, EM/SC]**
Optional quartz restrike [Q] energizes auxiliary quartz lamp upon power reactivation and extinguishes once HID lamp re-ignites. Quartz restrike with time delay [EM] adds cold start activation. Emergency Separate Circuit [EM/SC] allows the quartz lamp socket to be wired to an independent relay controlled power source.

**NEMA TWISTLOCK PHOTOCONTROL RECEPTACLE [PER]**
Gasketed photocontrol receptacle for mounting a standard NEMA photocontrol (order separately). Button-style photocontrol [PC] also available.

**INTERNAL MAST ARM MOUNT [S]**
Optional internal mast arm mount accepts a 1 1/4" to 2 3/8" 0.D. horizontal tenon while 4-bolt clamping mechanism secures fixture. Cast-in leveling guides provide ±5° vertical leveling adjustment.

**ADJUSTABLE SLIPFITTER [OA1090]**
Optional knuckle mount with internal wireway enables vertical tilt adjustment. Knuckle slip fits over vertical 2 3/8" 0.D tenon and is secured by two (2) 1/2" bolts.
PHOTOMETRICS [Complete IES files available at www.cooperlighting.com]

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

<table>
<thead>
<tr>
<th>Mounting Footcandle Values for Height Isofootcandle Lines</th>
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<tbody>
<tr>
<td>A</td>
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<tr>
<td>--------------------------------</td>
</tr>
<tr>
<td>MHTR-3S-400 / MHTR-4S-400</td>
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<tr>
<td>20°</td>
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<td>25°</td>
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**MHTR-3S-400**
400-Watt MH
40,000-Lumen Clear Lamp
Type III Segmented

**MHTR-4S-400**
400-Watt MH
40,000-Lumen Clear Lamp
Type IV Segmented

**MHTR-3F-400**
400-Watt MH
40,000-Lumen Clear Lamp
Type III Formed

**MHTR-5F-400**
400-Watt MH
40,000-Lumen Clear Lamp
Type V Formed

**MHTR-SL-400**
400-Watt MH
40,000-Lumen Clear Lamp
SLE-Spill Light Eliminator

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

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<tr>
<td>MHTR-3S-400-HS / MHTR-SL-400</td>
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<td>25°</td>
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</table>

**MHTR-3S-400-HS**
400-Watt MH
40,000-Lumen Clear Lamp
Type III Segmented w/ House Side Shield

**MHTR-SL-400**
400-Watt MH
40,000-Lumen Clear Lamp
SLE-Spill Light Eliminator

**FOOTCANDLE TABLE**
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</table>

**HPTR-3F-400**
400-Watt HPS
50,000-Lumen Clear Lamp
Type III Formed

**HPTR-4F-400**
400-Watt HPS
50,000-Lumen Clear Lamp
Type IV Formed
CONSTRUCTION
Rugged one-piece die-cast aluminum housing and door frame. One-piece silcone-gasketed polycarbonate optical chamber from performance degrading contaminants. One (1) stainless steel latch and two (2) stainless steel hinges allow flawless opening and removal of door frame.

REFLECTOR
Choice of six state-of-the-art 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. Attachment which may cause streaking in the light distribution. All segment faces are clean of rivet heads, tabs or other means of attachment which may cause streaking in the light distribution.

FINISH
Housing and arm finished in a 5 stage premium TIG brazed polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. N16, and custom color matches available.

EPA
Effective Projected Area EPA available RAL and custom color matches include black, grey, white, dark powder coat paint. Optional colors premium TGIC bronze polyester.

Housing and arm finished in a 5 stage premium TIG brazed polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. N16, and custom color matches available.

OPTIONS + ACCESSORIES (Must be listed in the order shown and separated by a dash)

OPTIONS (add as suffix) 7
F1=Single Fuse (120, 277 or 347V) 4
F2=Double Fuse (208, 240 or 480V) 4
Q=Quartz Restrictor (Hot Strike Only) 6
EM=Emergency with Time Delay 9
EM/SC=Emergency Separate Circuit 11
LA=Less Arm (Order Mounting Separately)
WH=White
BK=Black
AP=Grey
DP=Dark Platinum
GM=Graphite Metallic

ACCESSORIES (order separately/replace XX with color designation)
MA1211-XX=Direct Wall Mount Kit 1
MA1216-XX=Tribute Wall Mount (Arm Included) 1
MA1219-XX=Watt Bracket with 8” Arm 1
OA/RA1010-XX=Shorting Cap
OA/RA1016=Photoelectric Control 105-285V NEMA Type
OA/RA1027=Photoelectric Control 480V NEMA Type
OA/RA1013=Field Installed Vandal Shield
MA1225=Internal House Side Shield Kit for 2S/3S
MA1224=Internal House Side Shield Kit for 2SF/3SF
MA1222=Internal House Side Shield Kit for 2S/3S
MA1221=External House Side Shield Kit [EPA=0.38]
MA1212=Internal House Side Shield Kit for 2S/3S
MA1223=Internal House Side Shield Kit for 4S
MA1219-XX=Adjustable Splitter Arm for Tenon Mount 2 3/8” O.D. 1
TR/VS=Field Installed Vandal Shield 8
MA1211-XX=Direct Wall Mount Kit 1
MA1216-XX=Tribute Wall Mount (Arm Included) 1
MA1219-XX=Watt Bracket with 8” Arm 1
OA/RA1010-XX=Shorting Cap
MA1211-XX=Direct Wall Mount Kit 1
MA1216-XX=Tribute Wall Mount (Arm Included) 1
MA1219-XX=Watt Bracket with 8” Arm 1
OA/RA1010-XX=Shorting Cap
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Housing and arm finished in a 5 stage premium TIG brazed polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. N16, and custom color matches available.

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Housing and arm finished in a 5 stage premium TIG brazed polyester powder coat paint. Optional colors include black, grey, white, dark platinum and graphite metallic. N16, and custom color matches available.

STOCK SAMPLE NUMBER [Lamp Included]
SAMPLE NUMBER: MHTR2340
LAMP TYPE: MH/MP/HPS
SERIES: TR=Tribute
HP=High Pressure Sodium
WATTAGE: 50-400W
DISTRIBUTION: 2S=Type II Formed
3S=Type III Formed
4S=Type IV Formed
5S=Type V Formed
SL=Split Light Eliminator

LAMP WATTAGE 2
15=150W
17=175W
25=250W
40=400W

NOTES:
1 Short logic fixtures include multi-tap ballast, lamp, and arm (including round pole adapter). Other options not available. Refer to standard ordering logic.

LUMARK
PS5 RATING
70-400W MH/MP/HPS

ORDERING INFORMATION
SAMPLE NUMBER: MHTR-SL-400-MT-LL
SERIES 1
TR=Tribute (Arm Included)
LAMP TYPE:
MH=Metal Halide
MP= Pulse Start Metal Halide
HP=High Pressure Sodium

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=Split Light Eliminator

LAMP WATTAGE 2
70=70W
100=100W
150=150W
175=175W
250=250W
320=320W 1
400=400W 4

VOLTAGE 1
120V
208V
240V
277V
347V
480V

OPTIONS + ACCESSORIES (See Below)

70-400W MH/MP/HPS

MA1013-XX=4 @ 90° Tenon Adapter for 3 1/2” O.D. Tenon
MA1014-XX=2 @ 90° Tenon Adapter for 3 1/2” O.D. Tenon
MA1015-XX=2 @ 120° Tenon Adapter for 3 1/2” O.D. Tenon
MA1016-XX=3 @ 90° Tenon Adapter for 3 1/2” O.D. Tenon
MA1017-XX=Single Tenon Adapter for 2 3/8” O.D. Tenon
MA1018-XX=2 @ 180° Tenon Adapter for 2 3/8” O.D. Tenon
MA1019-XX=3 @ 120° Tenon Adapter for 2 3/8” O.D. Tenon
MA1045-XX=4 @ 90° Tenon Adapter for 2 3/8” O.D. Tenon
MA1046-XX=2 @ 90° Tenon Adapter for 2 3/8” O.D. Tenon
MA1049-XX=3 @ 90° Tenon Adapter for 2 3/8” O.D. Tenon

NOTES:
1 8” arm and round pole adapter included with fixture. Specify Less Arm “LA” option when mounting accessory is ordered separately. 2 Standard with mogul-base socket for 150-400W and medium-base socket 100W and below. 3 208 Volt Start Metal Halide lamps only. 4 Requires reduces envelope lamp. 5 Products also available in non-US voltages for international markets. Consult factory for availability and ordering information. 6 Dual-Tap is 120/277 wired 277V. Multi-Tap is 120/277/480 wired 277V Triple-Tap is 120/277/480 wired 480V Wired 400V. Consult for availability. 7 Custom and N16 color matching available upon request. Consult Cooper Lighting Representative for further information. 8 Must specify voltage. 9 Quart options not available with SL split. 10 House side shield not available on S, ST or SL options. 11 Not available with SLE or House Side Shield. 12 Specifications and dimensions subject to change without notice.

STOCK SAMPLE NUMBER [Lamp Included]
SAMPLE NUMBER: MHTR2340
LAMP TYPE: MH/MP/HPS
SERIES: TR=Tribute
HP=High Pressure Sodium
WATTAGE: 50-400W
DISTRIBUTION: 2S=Type II Formed
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SL=Split Light Eliminator

LAMP WATTAGE 2
15=150W
17=175W
25=250W
40=400W

NOTES:
1 Short logic fixtures include multi-tap ballast, lamp, and arm (including round pole adapter). Other options not available. Refer to standard ordering logic.
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www.cooperlighting.com

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Lumark
Sure-Lites
Neo-Ray
Corelite
Portfolio
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Lumière
Invue
McGraw-Edison
Streetworks
Fail-Safe
MWS
DLS
RSA
Ametrix

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Canadian Facilities
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Chomedey, Laval P.Q.

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