

DESCRIPTION

The Steeler combines computerized design, durable cold-rolled steel and a field-adjustable reflector to provide a degree of versatility unmatched in other industrials. U.L. listed and labeled for damp location. CSA Certified.

The Steeler is perfect for warehouses, gymnasiums, assembly areas, hangars, manufacturing and automotive service areas.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

A ... Mounting

Easy slide-on die-cast aluminum mounting box with tapped opening for 3/4" conduit.

B ... Housing

Heavy-duty, formed steel housing with an open air ballast for cooler operation is finished in a white polyester powder coat.

C ... Ballast

High power factor ballast with class H insulation. Minimum starting temperature is -40°C (-40° F) for HPS and -30°C (-20° F) for MH, MP and ML. U.L. listed and CSA certified.

D ... Universal Brackets

Universal ladder brackets allow for the flexibility to change out with other reflectors available in acrylic or glass.

E ... Socket

Mogul-base porcelain socket. 150W MH and below is medium-base.

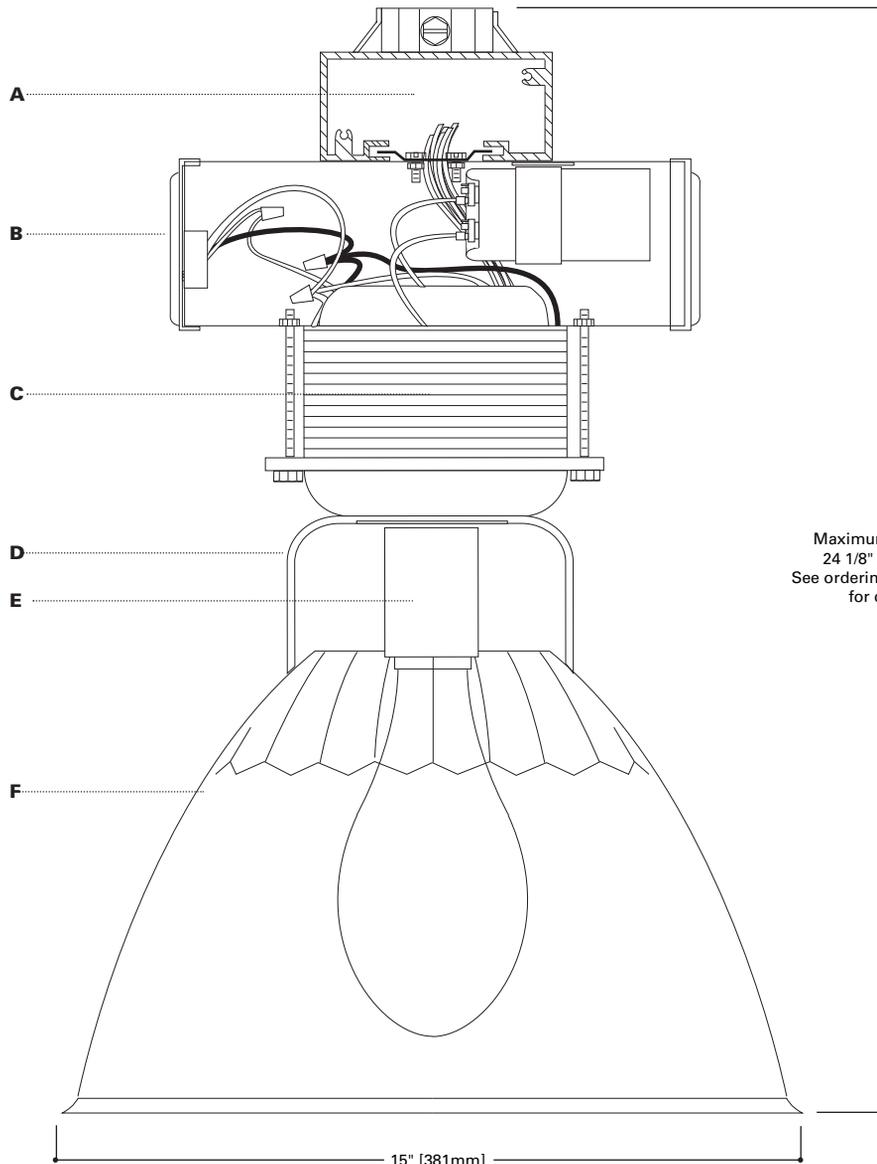
F ... Reflector

Computer-designed, field-adjustable reflector mounts easily and allows multiple distribution patterns for precise control.



SS 15" STEELER

70 - 450W
Pulse Start Metal Halide
High Pressure Sodium
Metal Halide
HIGH-BAY
INDUSTRIAL LUMINAIRE



Maximum height is
24 1/8" [613mm].
See ordering information
for details

TECHNICAL DATA

EISA Compliant ⓔ
65° Ambient Environment.
90° Supply Wire Rating.

ENERGY DATA

Reactor Ballast Input Watts
70W HPS NPF/HPF (82 Watts)
100W HPS NPF/HPF (118 Watts)
150W HPS NPF/HPF (175 Watts)
150W MH NPF/HPF (185 Watts)

CWI Ballast Input Watts

250W HPS HPF (300 Watts)
250W MH HPF (300 Watts)
400W HPS HPF (465 Watts)
400W MH HPF (475 Watts)

CWA Ballast Input Watts

175W MP HPF (198 Watts) ⓔ
200W MP HPF (227 Watts) ⓔ
250W MP HPF (283 Watts) ⓔ
320W MP HPF (365 Watts) ⓔ
350W MP HPF (400 Watts) ⓔ
400W MP HPF (452 Watts) ⓔ
400W HPS HPF (465 Watts)
450W MP HPF (508 Watts) ⓔ

SHIPPING DATA

Approximate Net Weight:
30 lbs. (13 kgs.)

ORDERING INFORMATION

Sample Number: MPSS-SA15-M-175-MT-Q

<p>Lamp Type MP= Pulse Start Metal¹ Halide MH= Metal Halide¹ HP= High Pressure² Sodium ML= Pulse Start MH^{1, 3, 4} (Linear Reactor)</p> <p>Series SS= Steeler</p>	<p>Reflector Type SA= Anodized Spun Aluminum</p> <p>Reflector Diameter 15= 15" Diameter</p> <p>Distribution⁵ C= Concentrated M= Medium W= Wide</p>	<p>Lamp Wattage MP 70= 70W 100= 100W 175= 175W 200= 200W 250= 250W 320= 320W 350= 350W 400= 400W 450= 450W MH 175= 175W 250= 250W 400= 400W HP 70= 70W 100= 100W 150= 150W 250= 250W 400= 400W</p>	<p>Voltage⁶ 120V= 120V 208V= 208V 240V= 240V 277V= 277V 347V= 347V 480V= 480V MT= Multi-Tap,⁷ wired 277V TT= Triple-Tap,⁸ wired 347V 5T= 5-Tap⁹</p>	<p>Options¹⁰ V1= Visual Indicator system, externally mounted LED Signal P= Pre-set Socket Position from the factory OR= Open Rated Socket For Metal Halide Lamps SS= Space Saver Feature Q= Quartz Restrike (Hot Strike Only) EM= Quartz Restrike with "Delay Relay" (Quartz lamp strikes at both hot and cold starts) EM/SC= Emergency Separate Circuit¹¹ LL= Lamp Included¹² QD= Quick Disconnect Die-Cast Pendant Mount Box (Specify Single Voltage, Not Compatible with PC3, PHC, C3, MWS, RM or HC) SCF= 3' Aircraft Safety Cable secures Housing to Ceiling (Alternative lengths available. Example: SCF6 = 6' Cable) SCR= Aircraft Safety Cable-Housing to Reflector L/TCB= Less Top Connector Box (Housing shipped less top connector box. (Specify when using TWMBBS accessory) RM= Remote Mount¹³ QLL= Quartz Lamp Included (Lamp is Cooper designated product based on luminaire requirements. Lamp is shipped separate from luminaire unless otherwise noted) W/MWS= MWS Industrial components attached to the fixture at the factory. (Standard cord length is 3 ft, 6 ft, and 11 ft. also available. Please refer to MWS Modular Wiring System section for additional information.)</p>	<p>Accessories¹⁷ C3= 3' Cord-No Plug - Requires FH-1, FL-1, or 14 SHK PC3= 3' Cord with NEMA Plug - (120V-L5, 208V-L6-15P, 347V-L37-20P and 480V-L8-20P) Other cord lengths are available by specifying length (PC6 for 6' cord). Requires FH-1 or FL-1, or SHK. Use with TPPH-NEMA. Specify Voltage. PHC= Power Hook Cord and Non-NEMA plug configuration. Must be used with FL-1 and TPPH (Thru-Way Pendant Power Hook) PHC-NEMA= Power Cord and NEMA plug - 18" Power Cord and 20 Amp NEMA plug configuration. Must be used with FL-1 and TPPH-NEMA (Thru-Way Pendant Power Hook) SGB15= Safety Glass Bottom (Not Compatible with "WG15") WG15= Wire Guard (Not Compatible with "SGB15") WG15/GLC= Gym Wireguard w/ Safety Glass MBT= Twin Mount Bracket (Fixtures must be same voltage and without hooks, loops or plugs.) TPPH= Thru-Way Pendant Power Hook. Requires FL-1 and PHC. Specify Voltage. TPPH-F= Thru-Way Pendant Power Hook Single Fuse, 120, 277 or 347 Volt. Requires FL-1 and PHC. Specify Voltage. TPPH-F2= Thru-Way Pendant Power Hook - Double Fused, 208, 240, or 480 Volt. Requires FL-1 and PHC. Specify Voltage. TPPH-F-QD= Thru-Way Pendant Power Hook Single Fuse, Quick Disconnect. Requires FL-1 and PHC. Specify Voltage (120, 277, or 347V) TPPH-F2-QD= Thru-Way Pendant Power Hook Double Fuse, Quick Disconnect. Requires FL-1 and PHC. Specify Voltage (208, 240, or 480V) TPPH-NEMA= Thru-Way Pendant Power Hook. Requires FL-1 and PHC-XXXV-NEMA. Specify FH-1= Fixture Hook FL-1= Fixture Loop SHK= Hook with Safety Screw TWMBBS= Thru-Way Mounting Box¹⁸</p>
---	--	---	--	--	---

- Notes:**
- Approved lamp containment barrier required when enclosed rated MP/ML/MH lamps are used. 2005 NEC code requires that open luminaires must utilize a safety glass bottom (SGB) accessory or an Open rated socket (OR) and lamp.
 - Not available in 175, 200, 320, 350 and 450W.
 - 200, 250, 320, 350, and 400W only.
 - 277V only, not available with HSW, Q, EM, HL or HC options.
 - Factory set for concentrated, medium or wide distributions otherwise fixture is shipped in medium setting.
 - Products also available in non-US voltages and 50HZ for international markets. Consult your Cooper Representative for availability and ordering information. 88% Efficient EISA Compliant MP Fixtures not available in 347V and TT Voltages.
 - Multi-Tap ballast 120/208/240/277V wired 277V.
 - Triple-Tap ballast 120/277/347V wired 347V.
 - 5-Tap ballast 120/208/240/277/480V wired 277V. 400W Metal Halide only. 88% efficient EISA Compliant MP fixtures not available in 5-Tap Voltages.
 - Must be listed in the order shown and separated by a dash.
 - Not available with HL or HC options.
 - Lamp is shipped separately.
 - Not available with QD, W or WL options.
 - Requires FH-1, FL-1.
 - 30 second time delay when switching from bright to dim. Consult individual lamp manufacturers recommendations for compatible lamps. For use with CWA ballast only.
 - Not available with QD, PC3, C3, PHC or MWS. Not available with single circuit MWS special order.
 - Order separately.
 - Specify L/TCB when using thru-way mounting box (TWMBBS) accessory.

VOLTAGE CHART	
MT=Multi-Tap	120/208/240/277 (wired 277V)
TT=Triple-Tap	120/277/347 (wired 347V)
5T=5-Tap ¹⁰	120/208/240/277/480 (wired 277V)

LAMP TYPE	WATTAGE
Pulse Start Metal Halide (MP)	70, 100, 175, 200, 250, 320, 350, 400, 450W
Metal Halide (MH)	175, 250, 400W
High Pressure Sodium (HPS)	70, 100, 150, 250, 400W

STOCK SAMPLE ORDER

STOCK SAMPLE NUMBER: MPSS40-5T

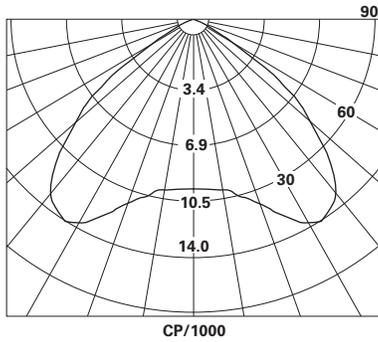
	SS		5T
<p>Lamp Type MP = Pulse Start Metal Halide (CWA) MH = Metal Halide HP = High Pressure Sodium</p>	<p>Series SS= Steeler</p>	<p>Lamp Wattage 25 = 250W 32 = 320W 40 = 400W 40Q=400W and Quartz Restrike 408 = 400W (Canada, Triple-Tap Ballast)</p>	<p>Options 5T=5-Tap Ballast</p>

NOTES:

Options not available with stock products. Order Accessories as separate items for field installation. Refer to standard ordering information to add options and accessories.

- F1**= Single Fuse (120, 277 or 347V only)
F2= Double Fuse (208, 240 or 480V only)
FH-1= Die-cast Aluminum Fixture Hook (with 3/4" threads for easy installation)
FL-1= Malleable Iron Plated Fixture Loop (with 3/4" threads for easy installation)
SHK= Die-cast Aluminum Fixture Hook (with safety screw and 3/4" threads for easy installation)
C3= 3' Cord with no plug (Must use with FH-114 or FL-1, or SHK)
PC3= 3' Cord with NEMA Plug (120V-L5-15P,¹⁴ 208V-L6-15P, 347V-L37-20P, AND 480V-L8-20P) Other cord lengths are available by specifying length (PC6 for 6' Cord) Requires FH-1 or FL-1, or SHK. Example: PC3-120V Use with TPPH-NEMA. Specify Voltage.
PHC= Power Cord and Plug (18" Power Cord and Non-NEMA plug configuration. Must be used with FL-1 and TPPH (Thru-Way Pendant Power Hook). Must specify single voltage.
PHC-NEMA= Power Cord and NEMA Plug (18" Power Cord and 20 AMP NEMA plug configuration). Must be used with FL-1 and TPPH-NEMA (Thru-Way Pendant Power Hook).
HL= LumaWatt Fixture Control Module¹⁵ (Allows low voltage control wire to be daisy-chained between fixtures outside AC conduit run similar to low voltage intercom's, fire alarms and phone systems)
HSW= Integral LumaWatt Sensor and Control¹⁵ w/ Wide Distribution
HC= LumaWatt Fixture Control Module^{15, 16} (Low voltage leads pulled out of top connection box for areas requiring all wiring to be installed in conduit)

PHOTOMETRICS



MPSS-SA 15-400-MT-Q
 400-Watt MP, Medium Distribution
 44,000-Lumen Clear Lamp

Coefficients Of Utilization

rc	Effective floor cavity reflectance																						
	80%				70%				50%				30%				10%				0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																							
1	88	85	82	80	86	83	80	78	79	77	76	76	74	73	73	72	71	69					
2	81	76	71	67	79	74	70	66	71	68	65	68	66	63	66	64	62	60					
3	75	67	62	57	73	66	61	57	64	59	56	61	58	55	59	56	53	52					
4	69	60	54	49	67	59	53	49	57	52	48	55	51	47	53	50	47	45					
5	63	54	47	43	62	53	47	42	51	46	42	50	45	41	48	44	41	39					
6	58	49	42	37	57	48	42	37	46	41	37	45	40	36	44	39	36	34					
7	54	44	37	33	53	43	37	33	42	36	32	41	36	32	40	35	32	30					
8	50	40	34	29	49	39	33	29	38	33	29	37	32	29	36	32	28	27					
9	47	37	30	26	46	36	30	26	35	30	26	34	29	26	33	29	25	24					
10	44	33	27	23	43	33	27	23	32	27	23	31	26	23	31	26	23	22					

Spacing Criterion 1.8

Zone	%Lamp	Zone	%Lamp
0-30	22.8	0-90	78.0
0-40	42.3	90-180	1.2
0-60	73.9	Total	79.2

Candlepower

Degree	CP
0	10052
5	10086
15	10829
25	12819
35	13908
45	11170
55	6188
65	1182
75	276
85	28
95	7
105	23
115	17
125	18
135	40
145	83
155	614
165	288
175	18
180	17