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 #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

HOUSING: Heavy-duty, formed steel housing with an open air ballast for cooler operation is finished in a white polyester powder coat. UNIVERSAL BRACKETS: Universal ladder brackets allow for the flexibility to change out with other reflectors available in acrylic or glass.

Electrical

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. SOCKET: Mogulbase socket standard for HPS. For Metal Halide, protected socket standard, for use with "O" rated protected Metal Halide lamps only.

Optical

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

Mounting

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



SS 15" STEELER

Lumark

70 - 450W High Pressure Sodium Pulse Start Metal Halide Metal Halide

ALUMINUM HIGH-BAY

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

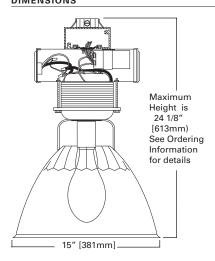
175W MP HPF (198 Watts) ©
200W MP HPF (227 Watts) ©
250W MP HPF (283 Watts) ©
320W MP HPF (365 Watts) ©
350W MP HPF (400 Watts) ©
400W MP HPF (452 Watts) ©
400W HPS HPF (465 Watts) ©

Shipping Data

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

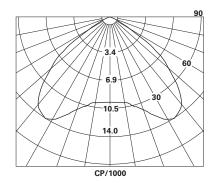


DIMENSIONS





PHOTOMETRICS



MPSS-SA15-400-MT-Q 400-Watt MP, Medium Distribution 44,000-Lumen Clear Lamp

Coefficients Of Utilization

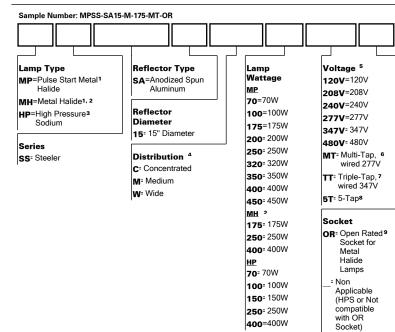
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rc		80	0%			7	0%			50%	, 0		30%	,		10%		0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
1	88	85	82	80	86	83	80	78	79	77	76	76	74	73	73	72	71	69
2	81	76	71	67	79	74	70	66	71	68	65	68	66	63	66	64	62	60
3	75	67	62	57	73	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
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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

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

Candlenower

Candlep	ower
Degree	CP
0	10052
5	10086
15	10829
25 35	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

ORDERING INFORMATION



- Open Rated socket and lamp must be used Notes: 1
 - MH available in non-U.S. markets only. 2
 - Not available in 175, 200, 320, 350 and 450W
 - Factory set for concentrated, medium or wide distributions otherwise fixture is shipped in medium
 - 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
 - Not applicable for HPS.
 - Requires FH-1or FL-1or SHK. 10
 - 30 second time delay when switching from bright to dim. Consult individual lamp manufacturers 11 recommendations for compatible lamps. For use with CWA ballast only
 - Not available with HL or HC options. 12
 - 13 Lamp is shipped separately
 - Not available with PC3, C3, PHC or MWS. Not available with single circuit MWS special order. 14
 - 15 Order separately
 - Specify L/TCB when using thru-way mounting box (TWMBS) 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)

WATTAGE

175 250 400W 70, 100, 150, 250, 400W

Options

- C3=3' Cord with no plug (Specify Voltage)10
- PC3=3' Cord with NEMA Plug (120V-L5-15P, 10 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).
- P= Pre-set Socket Position from the factory
- 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)
- HSW=Integral LumaWatt Sensor and Control 11 w/ Wide Distribution
- F1=Single Fuse (120, 277 or 347V only)
- **F2**=Double Fuse (208, 240 or 480V only)
- SCF=3' Aircraft Safety Cable secures Housing to Ceiling (Alternative lengths available. Example: SCF6 = 6' Cable)
- 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 Circuit12
- L/TCB=Less Top Connector Box (Housing shipped less top connector box. (Specify when using TWMBS accessory)
- L=Lamp Included13
- SCR=Aircraft Safety Cable-Housing to
- 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.
- HC=LumaWatt Fixture Control Module (Low voltage leads pulled out of top connection box for areas requiring all wiring to be installed in conduit)
- HL=LumaWatt Fixture Control Module (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)
- designated product based on luminaire requirements. Lamp is shipped separate from luminaire unless otherewise noted)

Accessories 15

- C3=3' Cord-No Plug Requires FH-1, FL-1, 10
- 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
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- SGB15: Safety Glass Bottom (Not Compatiable with "WG15")
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- TPPH-F-QD=Thru-Way Pendant Power Hook Single Fuse, Quick Disconnect. Requires FL-1 and PHC. Specify Voltage (120, 277, or 347V)
- FPPH-F2-QD=Thru-Way Pendant Powe 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 TWMBS=Thru-Way Mounting Box16

QLL=Quartz Lamp Included (Lamp is Cooper

Pulse Start Metal Halide (MP)

High Pressure Sodium (HPS)

I AMP TYPE

Metal Halide (MH)

70, 100, 175, 200, 250, 320, 350, 400, 450W

DESCRIPTION

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70 - 450W High Pressure Sodium Pulse Start Metal Halide Metal Halide

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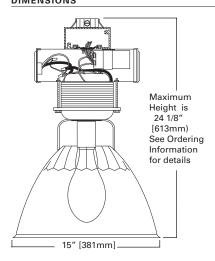
175W MP HPF (198 Watts) ©
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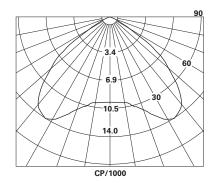


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PHOTOMETRICS



MPSS-SA15-400-MT-Q 400-Watt MP, Medium Distribution 44,000-Lumen Clear Lamp

Coefficients Of Utilization

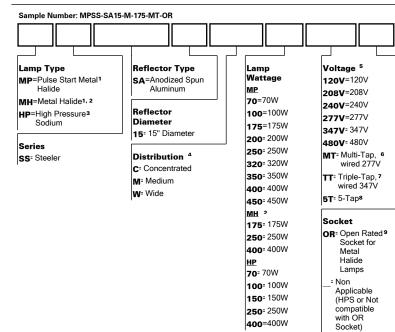
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rc		80	0%			7	0%			50%	, 0		30%	,		10%		0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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0-40	42.3	90-180	1.2
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Candlenower

Candlep	ower
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- TPPH-F-QD=Thru-Way Pendant Power Hook Single Fuse, Quick Disconnect. Requires FL-1 and PHC. Specify Voltage (120, 277, or 347V)
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QLL=Quartz Lamp Included (Lamp is Cooper

Pulse Start Metal Halide (MP)

High Pressure Sodium (HPS)

I AMP TYPE

Metal Halide (MH)

70, 100, 175, 200, 250, 320, 350, 400, 450W