

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P368205

Luminaire Tested: **MSA-SA4A-730-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4A-730-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15208 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

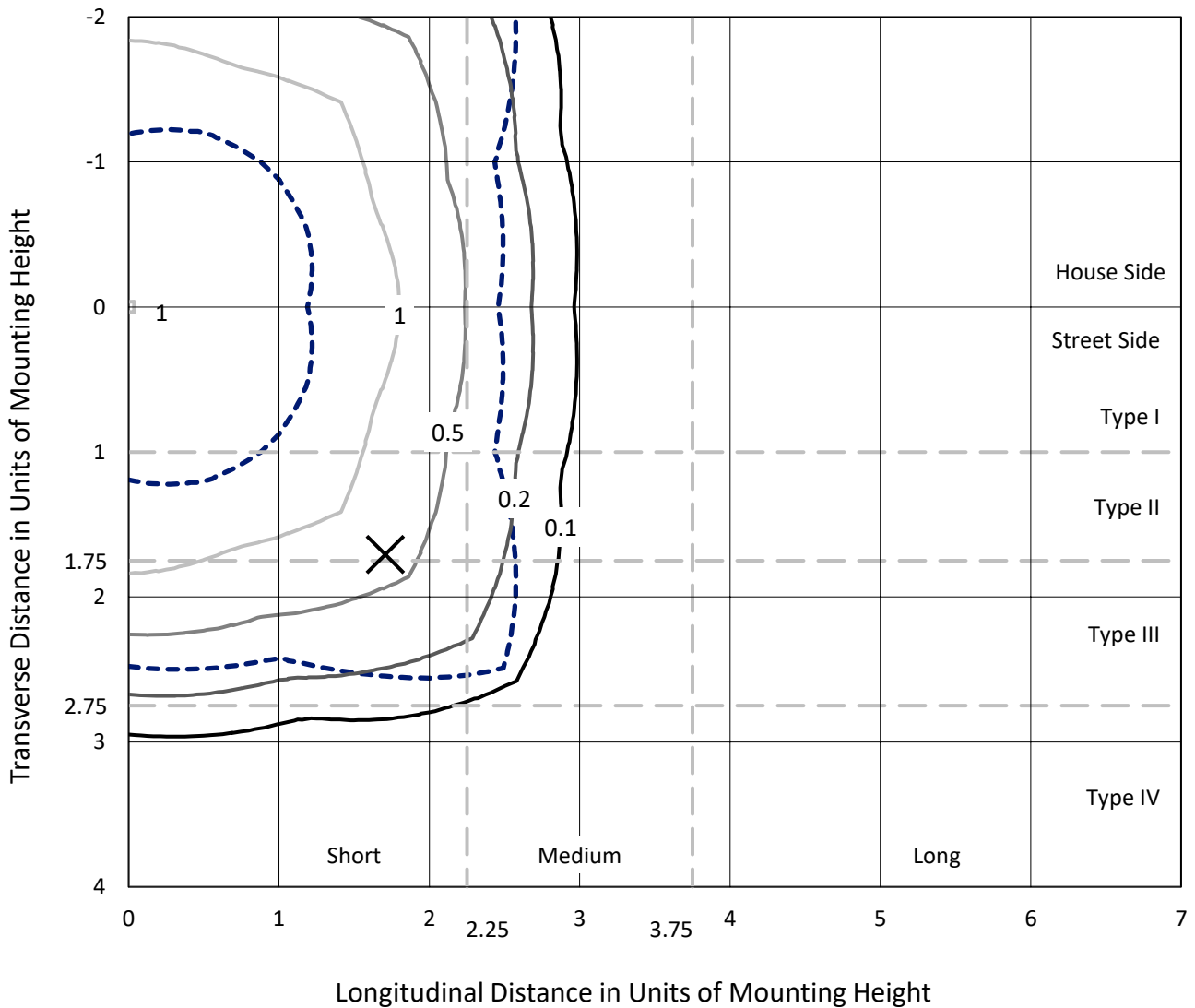
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

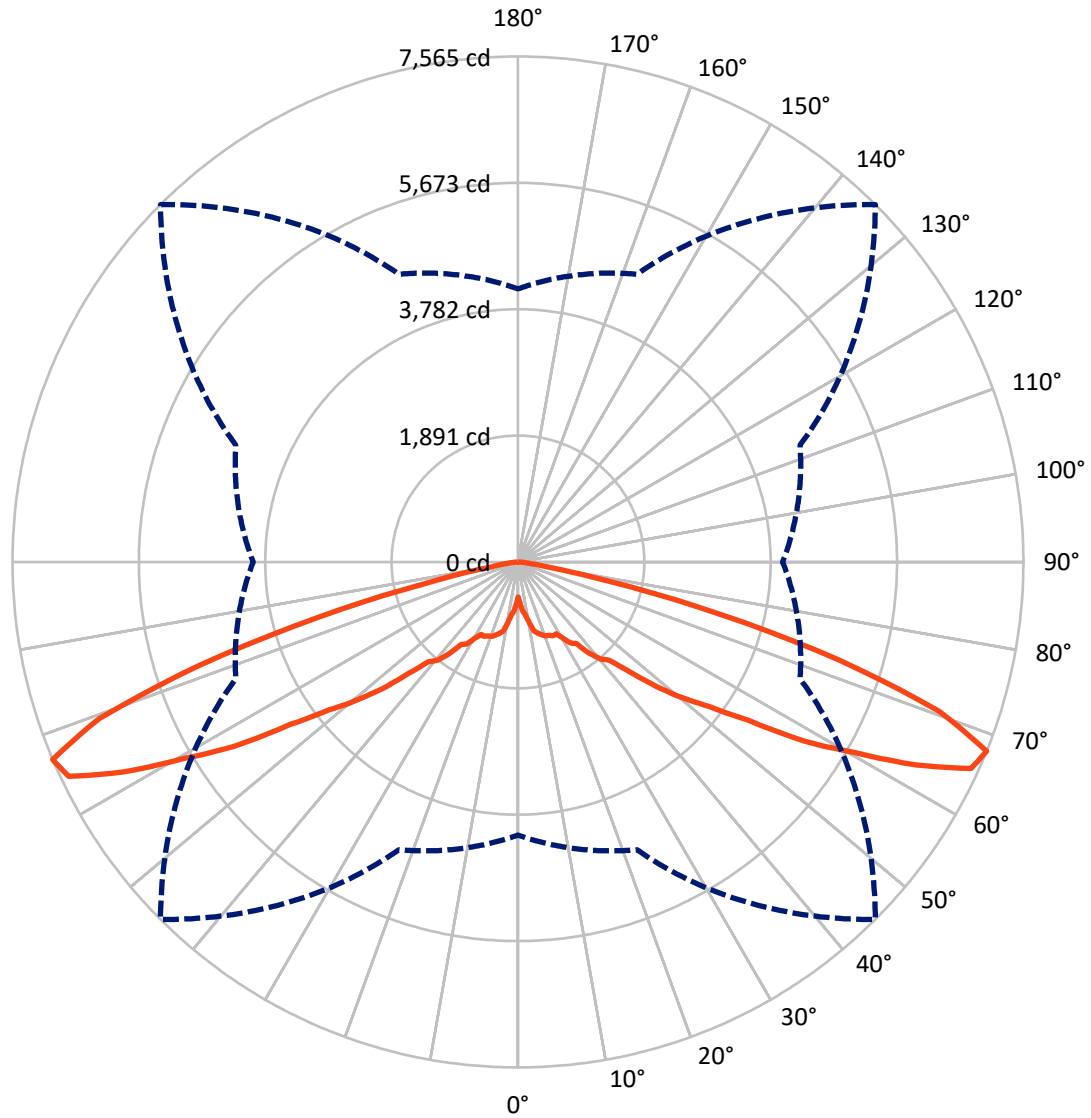
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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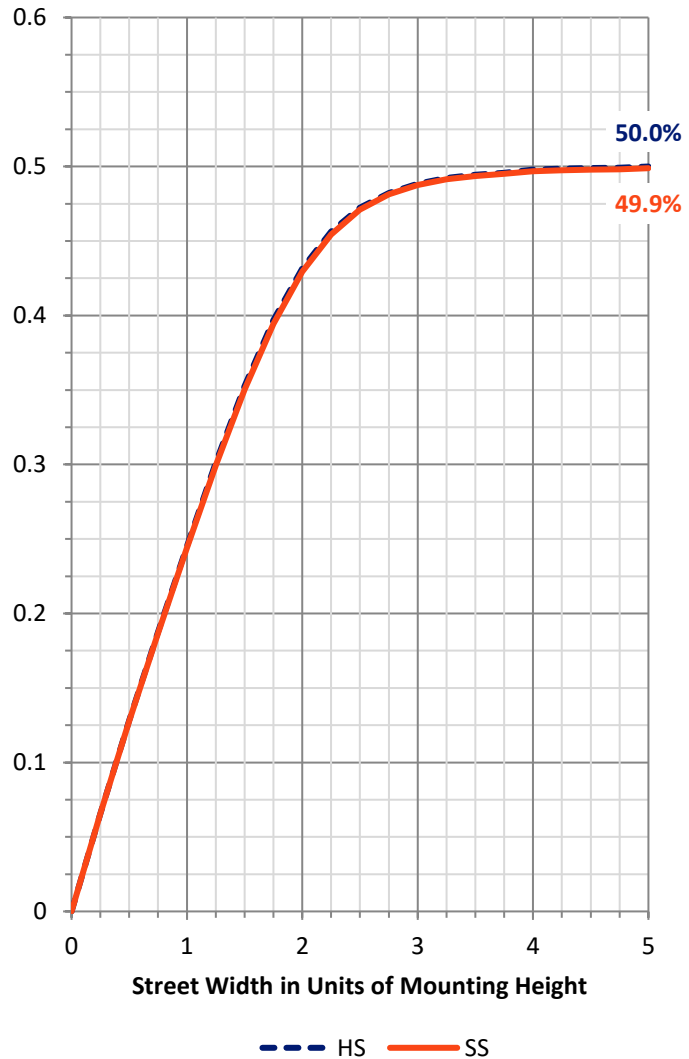
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7604.0	0.0	7604.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7604.0	0.0	7604.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15208.0	0.0	15208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	0.5
10°-20°	307.3	2.0
20°-30°	586.3	3.9
30°-40°	1071.9	7.0
40°-50°	2078.3	13.7
50°-60°	3968.9	26.1
60°-70°	5362.4	35.3
70°-80°	1665.4	11.0
80°-90°	89.7	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15208.0	100.0
0°-180°	15208.0	100.0

Coefficient of Utilization

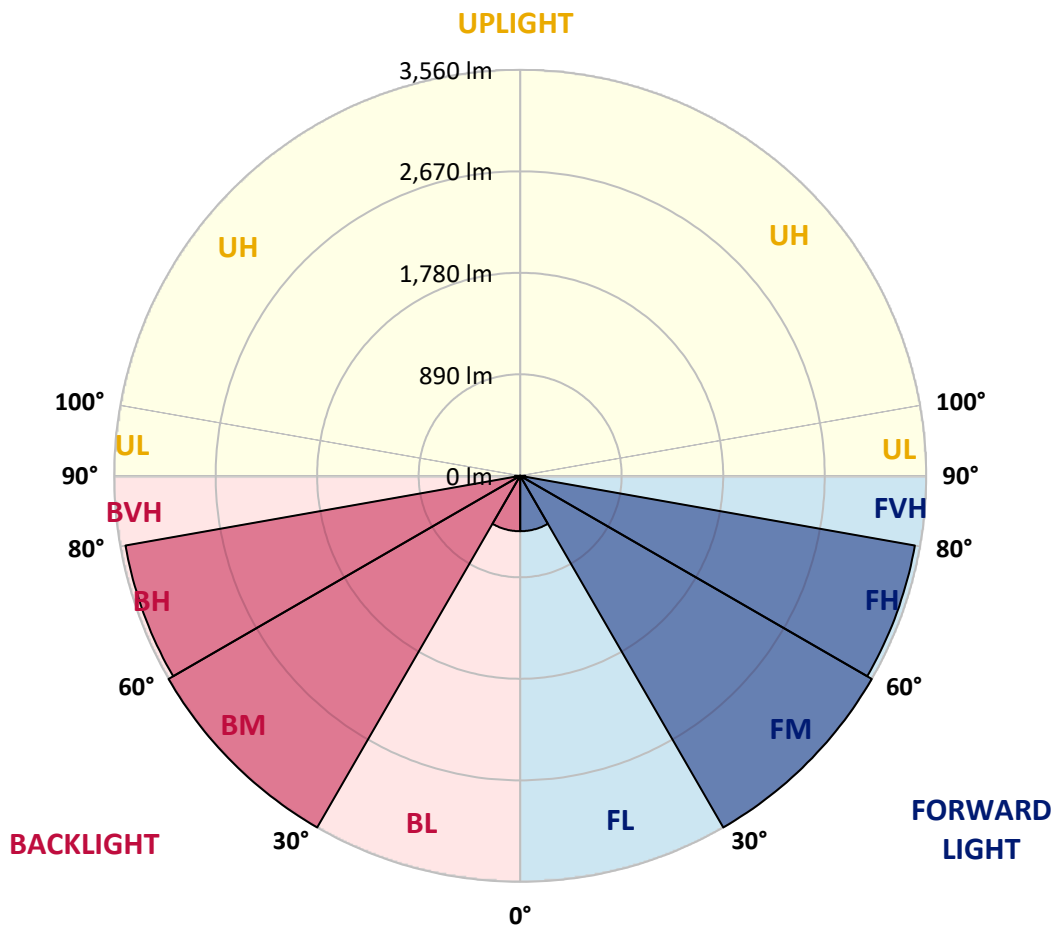


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.6	3.2			
FM (30°-60°)	3559.6	23.4			
FH (60°-80°)	3513.9	23.1			G2/5000
FVH (80°-90°)	44.9	0.3			G1/100
BL (0°-30°)	485.6	3.2	B1/500		
BM (30°-60°)	3559.6	23.4	B3/5000		
BH (60°-80°)	3513.9	23.1	B4/5000		G2/5000
BVH (80°-90°)	44.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	521.1	521.1	521.1	521.1	521.1
2.5°	641.6	600.5	619.3	600.5	641.6
5°	815.5	772.6	735.0	762.0	817.8
7.5°	937.1	873.1	793.8	866.0	931.8
10°	957.7	921.8	918.3	917.7	955.3
12.5°	1034.6	1010.6	1058.7	1012.9	1037.0
15°	1094.6	1081.1	1102.8	1098.1	1096.9
17.5°	1187.4	1095.7	1145.1	1090.5	1184.5
20°	1228.5	1098.7	1181.5	1092.2	1227.9
22.5°	1279.1	1168.0	1192.7	1171.0	1274.4
25°	1307.8	1212.7	1221.5	1213.8	1308.4
27.5°	1425.9	1311.4	1217.4	1327.2	1447.7
30°	1515.8	1375.4	1313.7	1377.2	1527.0
32.5°	1645.7	1471.2	1447.1	1494.7	1666.2
35°	1806.7	1632.2	1497.0	1632.8	1840.7
37.5°	2122.2	1778.5	1730.9	1830.2	2145.7
40°	2344.8	2009.4	1907.7	2046.4	2383.0
42.5°	2686.8	2268.5	2010.5	2287.3	2745.5
45°	3005.2	2582.8	2338.4	2604.5	3048.1
47.5°	3341.9	2871.3	2779.6	2898.3	3373.6
50°	3739.6	3262.0	3197.9	3292.5	3753.2
52.5°	4209.1	3784.9	3595.7	3802.5	4213.8
55°	4766.6	4223.8	4181.5	4271.9	4773.7
57.5°	5311.9	4792.5	5063.9	4797.8	5217.3
60°	5700.8	5316.6	5789.5	5181.4	5491.1
62.5°	5725.5	5704.9	6693.2	5475.8	5432.3
65°	5192.0	5548.1	7449.9	5368.9	4931.2
67.5°	4086.9	4660.9	7564.5	4570.4	3961.7
70°	2568.1	3227.3	6687.3	3351.3	2641.0
72.5°	1184.5	1739.1	5035.7	1957.7	1252.0
75°	424.2	665.7	3106.9	715.0	443.6
77.5°	240.9	269.7	1373.1	270.9	249.1
80°	155.1	168.0	396.6	177.4	151.0
82.5°	88.1	117.5	173.9	124.6	81.1
85°	47.6	74.6	77.0	76.4	47.6
87.5°	17.0	29.4	17.0	33.5	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)