

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: P366841

Luminaire Tested: **MSA-SA1B-830-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366841
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-SA1B-830-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4335 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

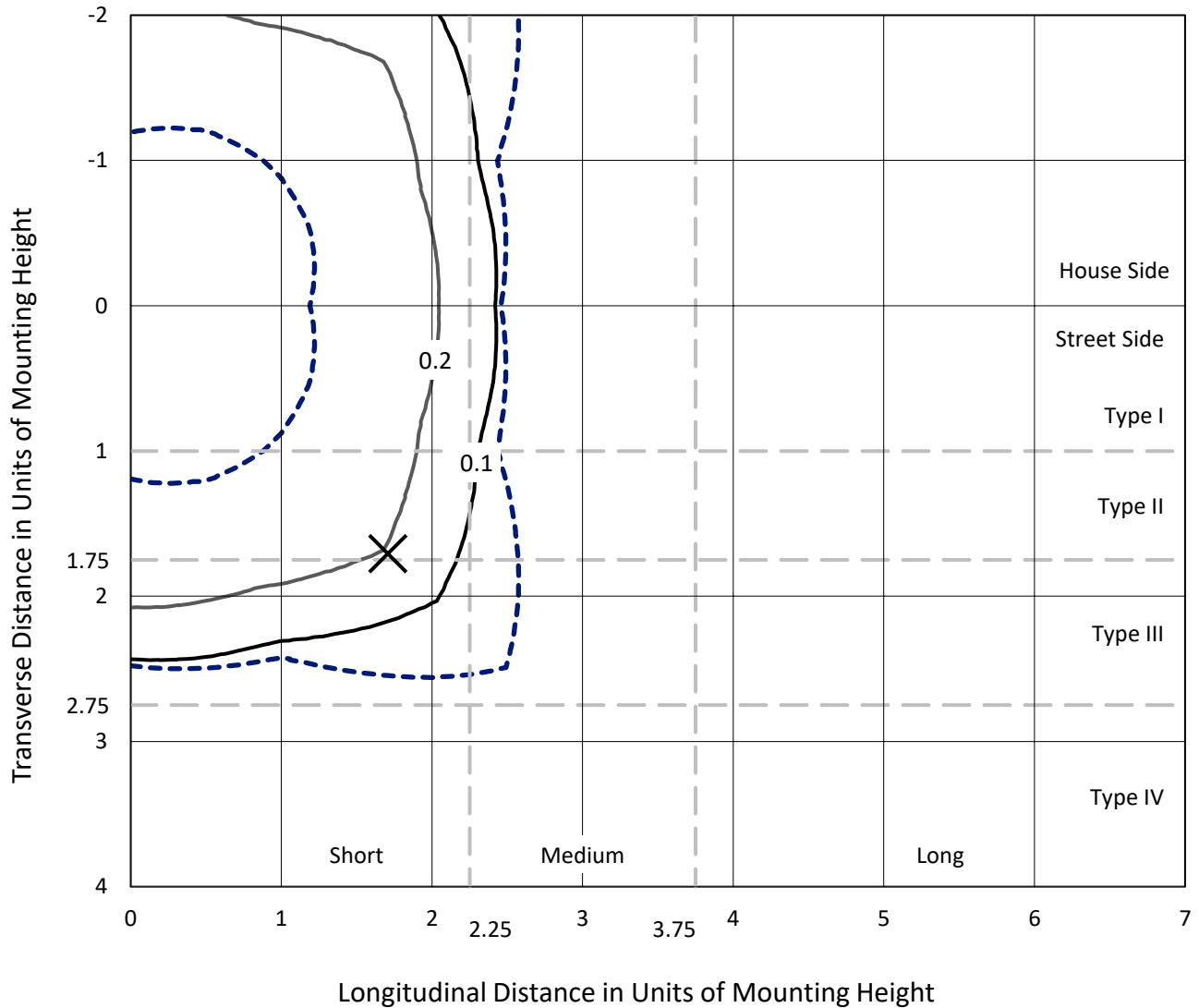
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

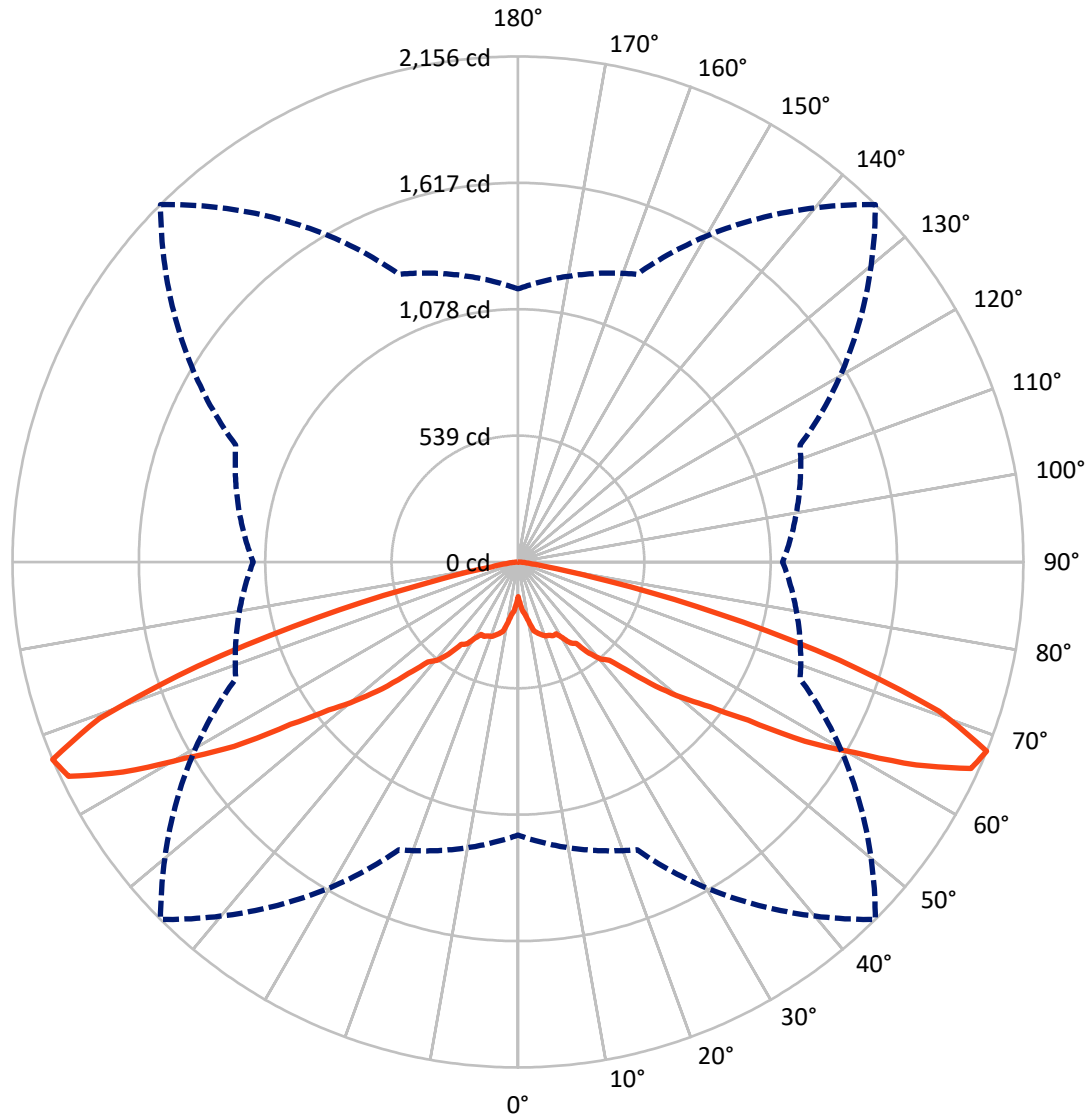
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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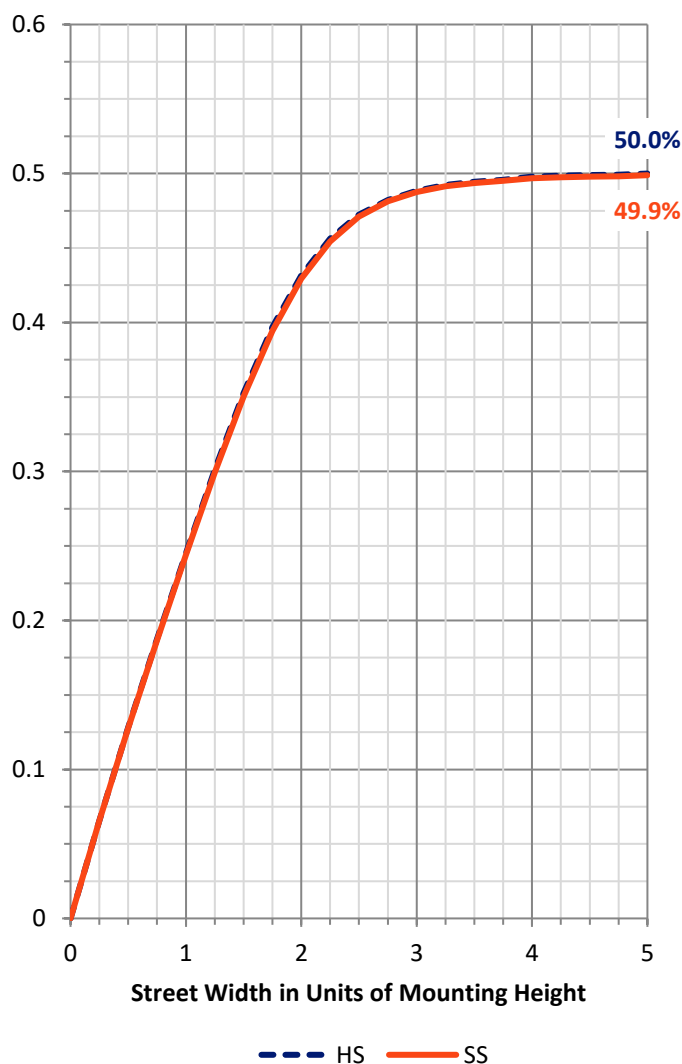
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2167.5	0.0	2167.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2167.5	0.0	2167.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4335.0	0.0	4335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	0.5
10°-20°	87.6	2.0
20°-30°	167.1	3.9
30°-40°	305.5	7.0
40°-50°	592.4	13.7
50°-60°	1131.3	26.1
60°-70°	1528.6	35.3
70°-80°	474.7	11.0
80°-90°	25.6	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°	4335.0	100.0
0°-180°	4335.0	100.0

Coefficient of Utilization



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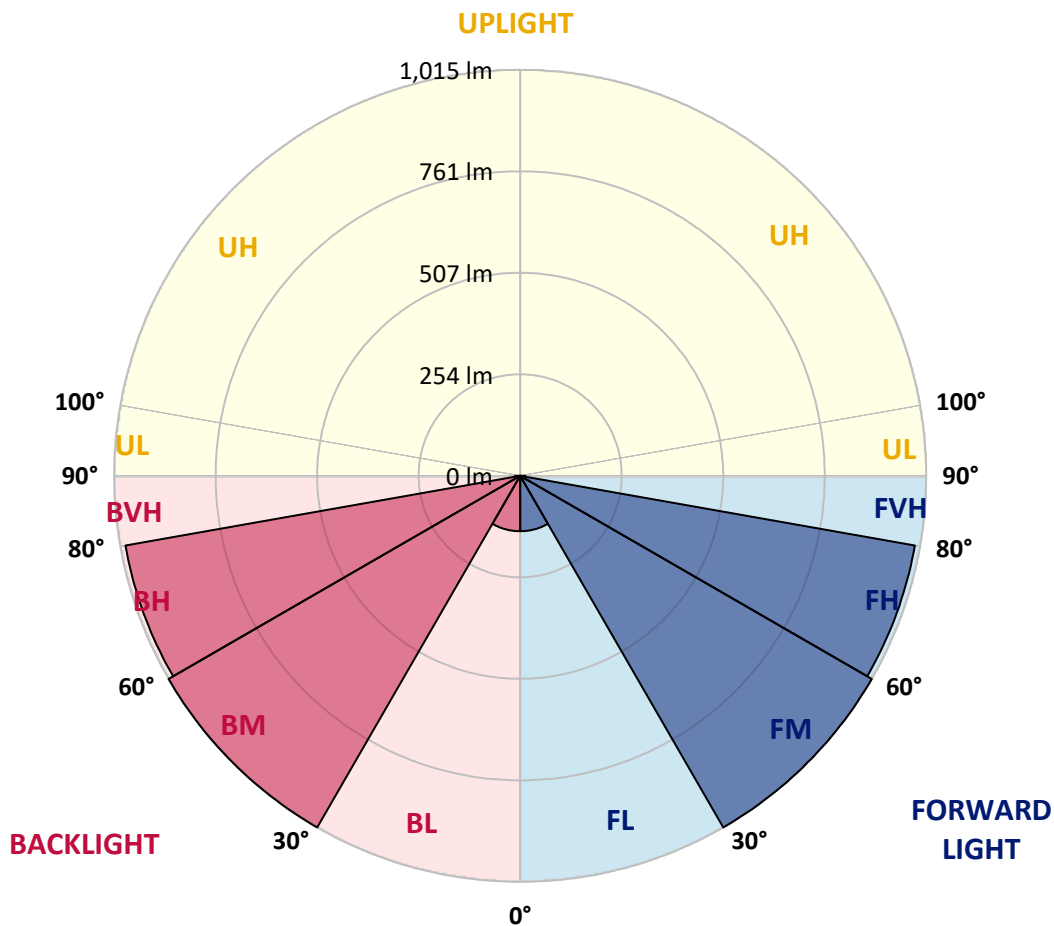
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	138.4	3.2			
FM (30°-60°)	1014.7	23.4			
FH (60°-80°)	1001.6	23.1			G1/1800
FVH (80°-90°)	12.8	0.3			G1/100
BL (0°-30°)	138.4	3.2	B1/500		
BM (30°-60°)	1014.7	23.4	B2/2500		
BH (60°-80°)	1001.6	23.1	B3/2500		G1/1800
BVH (80°-90°)	12.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	148.5	148.5	148.5	148.5	148.5
2.5°	182.9	171.2	176.5	171.2	182.9
5°	232.5	220.2	209.5	217.2	233.1
7.5°	267.1	248.9	226.3	246.9	265.6
10°	273.0	262.8	261.8	261.6	272.3
12.5°	294.9	288.1	301.8	288.7	295.6
15°	312.0	308.2	314.3	313.0	312.7
17.5°	338.5	312.3	326.4	310.8	337.6
20°	350.2	313.2	336.8	311.3	350.0
22.5°	364.6	332.9	340.0	333.8	363.3
25°	372.8	345.7	348.2	346.0	373.0
27.5°	406.5	373.8	347.0	378.3	412.7
30°	432.1	392.1	374.5	392.6	435.3
32.5°	469.1	419.4	412.5	426.1	475.0
35°	515.0	465.2	426.7	465.4	524.7
37.5°	604.9	506.9	493.4	521.7	611.6
40°	668.4	572.8	543.8	583.3	679.3
42.5°	765.9	646.6	573.1	652.0	782.6
45°	856.6	736.2	666.5	742.4	868.9
47.5°	952.6	818.4	792.3	826.2	961.6
50°	1066.0	929.8	911.6	938.5	1069.8
52.5°	1199.8	1078.9	1024.9	1083.9	1201.1
55°	1358.7	1204.0	1191.9	1217.7	1360.7
57.5°	1514.1	1366.1	1443.5	1367.6	1487.2
60°	1625.0	1515.5	1650.3	1477.0	1565.2
62.5°	1632.0	1626.2	1907.9	1560.9	1548.5
65°	1480.0	1581.5	2123.6	1530.4	1405.6
67.5°	1165.0	1328.6	2156.2	1302.8	1129.3
70°	732.0	919.9	1906.2	955.3	752.8
72.5°	337.6	495.7	1435.4	558.0	356.9
75°	120.9	189.7	885.6	203.8	126.4
77.5°	68.7	76.9	391.4	77.2	71.0
80°	44.2	47.9	113.0	50.6	43.0
82.5°	25.1	33.5	49.6	35.5	23.1
85°	13.6	21.3	21.9	21.8	13.6
87.5°	4.9	8.4	4.9	9.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)