

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: P367369

Luminaire Tested: **MSA-SA2B-830-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367369
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-SA2B-830-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8526 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

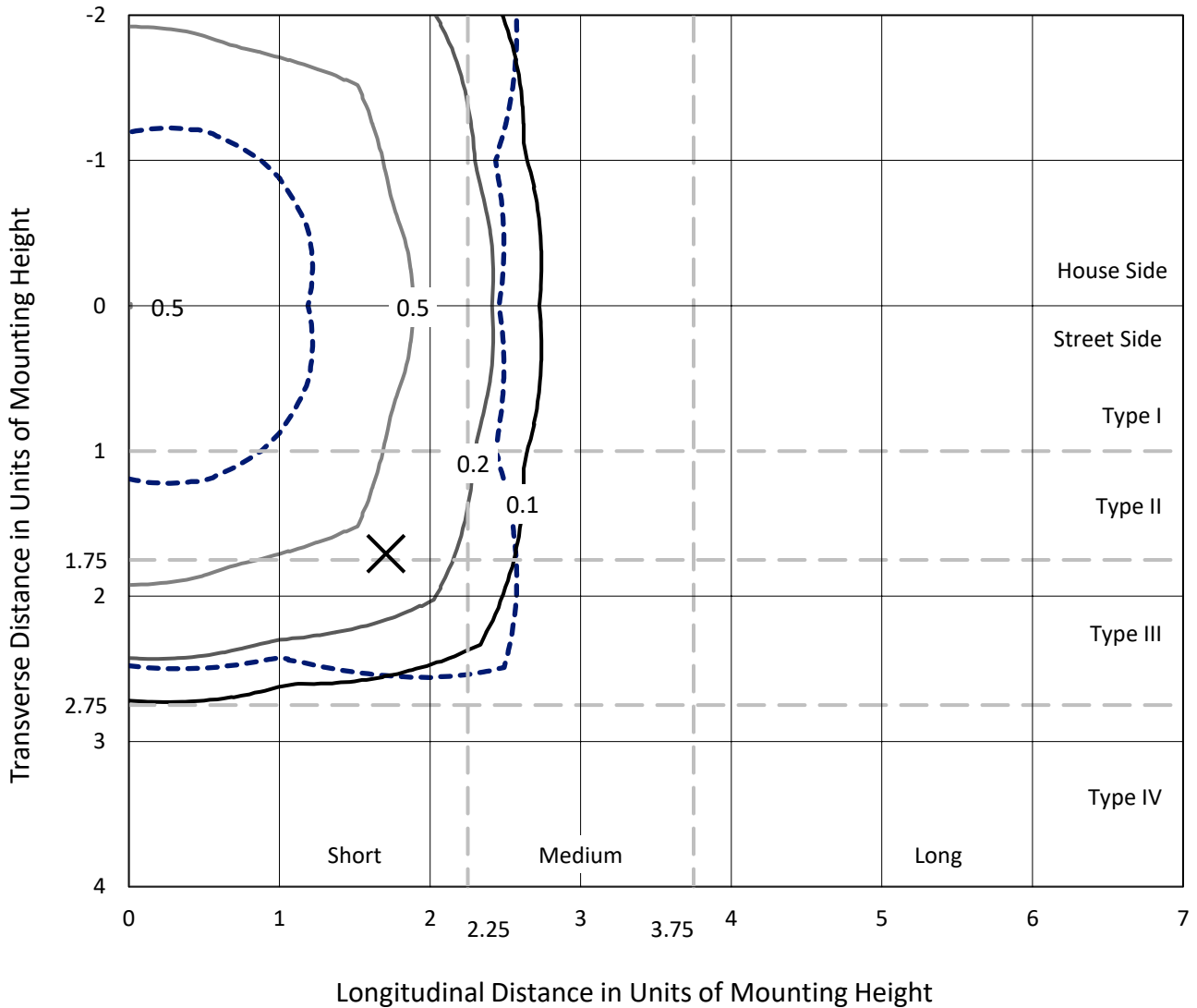
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

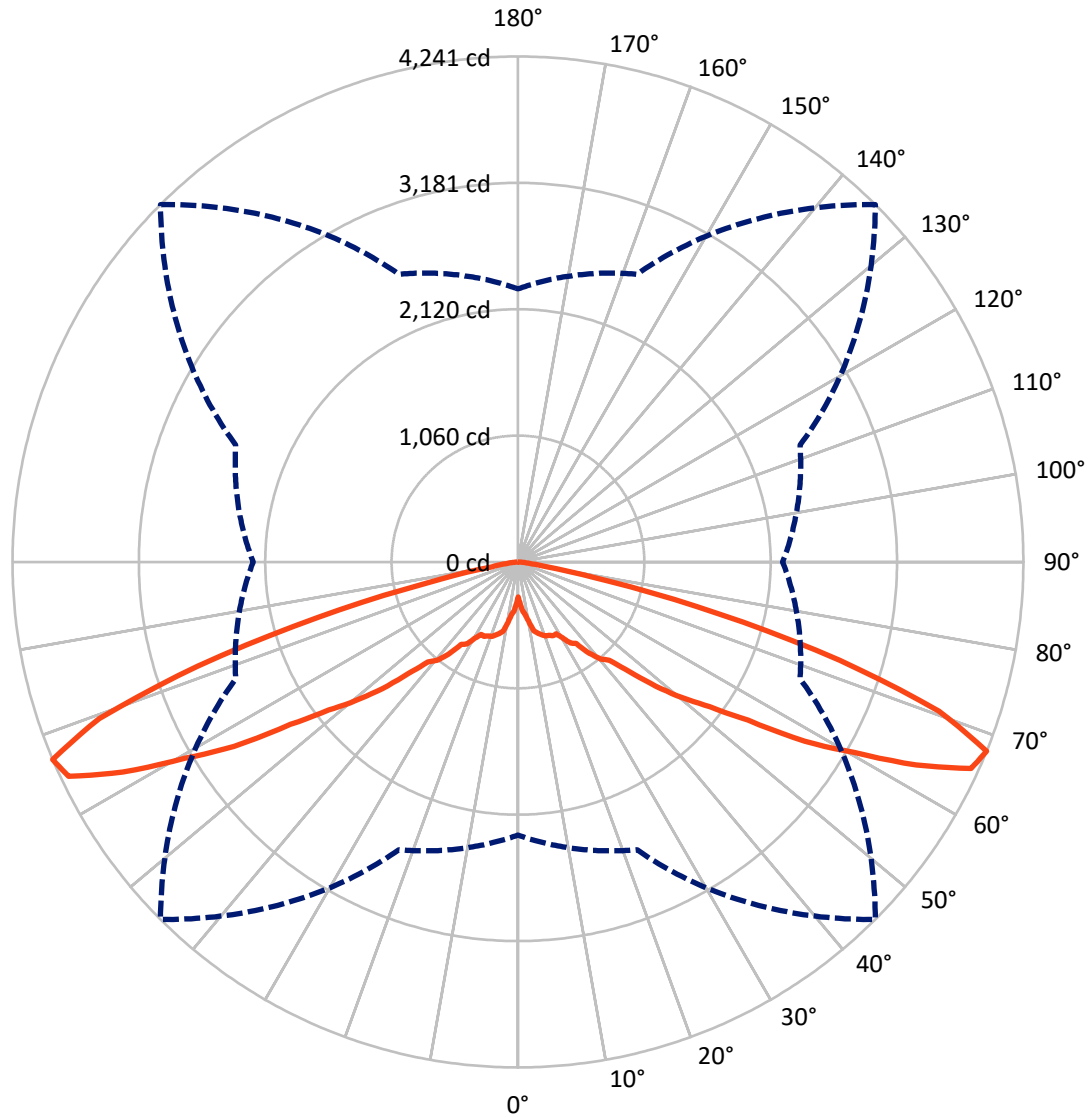
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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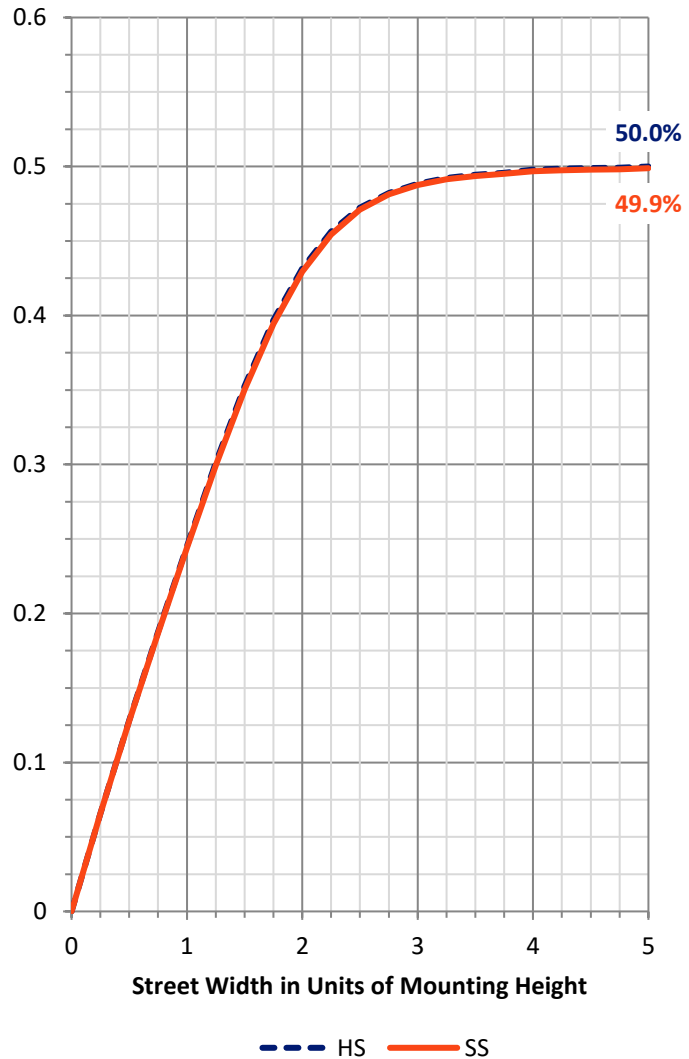
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4263.0	0.0	4263.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4263.0	0.0	4263.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8526.0	0.0	8526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	0.5
10°-20°	172.3	2.0
20°-30°	328.7	3.9
30°-40°	600.9	7.0
40°-50°	1165.2	13.7
50°-60°	2225.1	26.1
60°-70°	3006.3	35.3
70°-80°	933.7	11.0
80°-90°	50.3	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°	8526.0	100.0
0°-180°	8526.0	100.0

Coefficient of Utilization



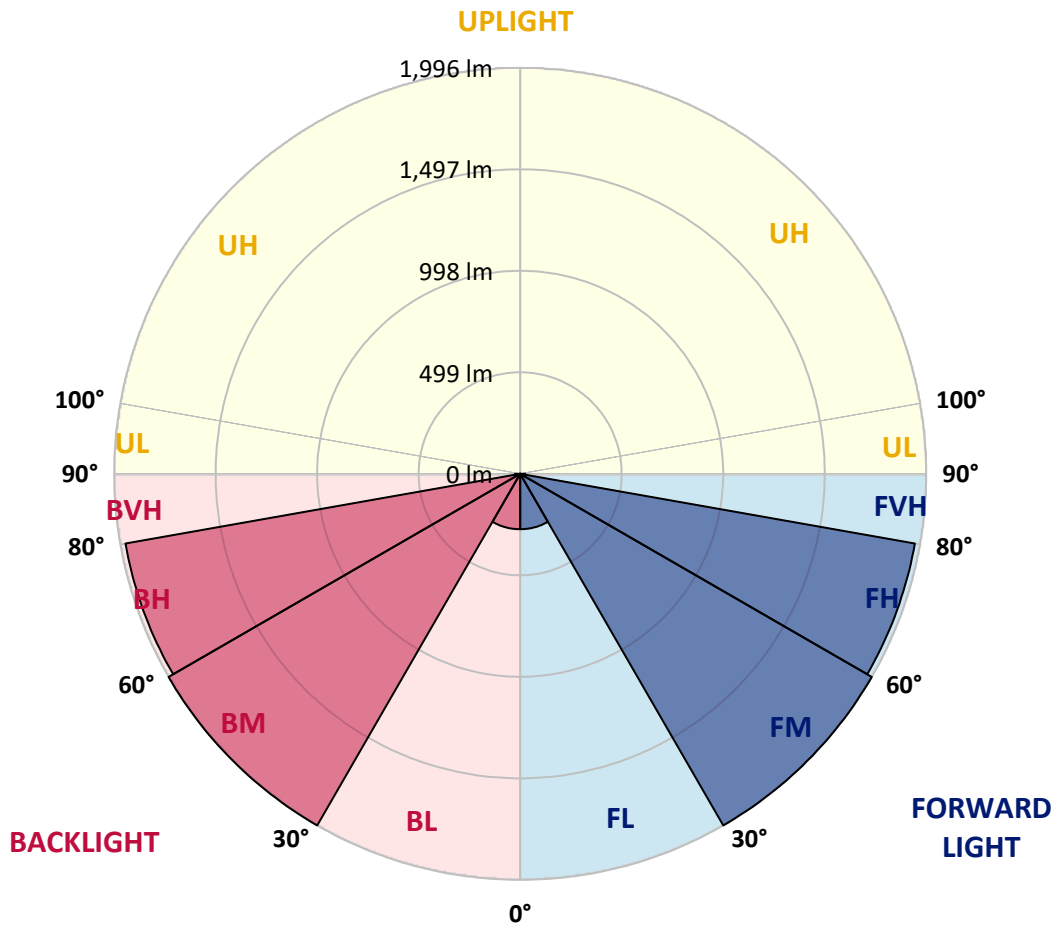
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.3	3.2			
FM (30°-60°)	1995.6	23.4			
FH (60°-80°)	1970.0	23.1			G2/5000
FVH (80°-90°)	25.2	0.3			G1/100
BL (0°-30°)	272.3	3.2	B1/500		
BM (30°-60°)	1995.6	23.4	B2/2500		
BH (60°-80°)	1970.0	23.1	B3/2500		G2/5000
BVH (80°-90°)	25.2	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	292.2	292.2	292.2	292.2	292.2
2.5°	359.7	336.6	347.2	336.6	359.7
5°	457.2	433.1	412.1	427.2	458.5
7.5°	525.4	489.5	445.0	485.5	522.4
10°	536.9	516.8	514.8	514.5	535.6
12.5°	580.0	566.5	593.6	567.9	581.4
15°	613.6	606.1	618.3	615.6	615.0
17.5°	665.7	614.3	642.0	611.3	664.0
20°	688.7	616.0	662.4	612.3	688.4
22.5°	717.1	654.8	668.7	656.5	714.4
25°	733.2	679.9	684.8	680.5	733.5
27.5°	799.4	735.2	682.5	744.1	811.6
30°	849.8	771.1	736.5	772.1	856.1
32.5°	922.6	824.8	811.3	838.0	934.1
35°	1012.9	915.0	839.3	915.4	1032.0
37.5°	1189.7	997.1	970.4	1026.0	1202.9
40°	1314.6	1126.5	1069.5	1147.2	1336.0
42.5°	1506.3	1271.8	1127.2	1282.3	1539.2
45°	1684.8	1448.0	1311.0	1460.2	1708.9
47.5°	1873.5	1609.7	1558.3	1624.9	1891.3
50°	2096.5	1828.7	1792.8	1845.9	2104.1
52.5°	2359.7	2121.9	2015.8	2131.8	2362.4
55°	2672.3	2368.0	2344.2	2395.0	2676.3
57.5°	2978.0	2686.8	2839.0	2689.8	2924.9
60°	3196.0	2980.6	3245.8	2904.9	3078.4
62.5°	3209.9	3198.3	3752.4	3069.9	3045.5
65°	2910.8	3110.4	4176.6	3009.9	2764.5
67.5°	2291.2	2613.0	4240.8	2562.3	2221.0
70°	1439.7	1809.3	3749.1	1878.8	1480.6
72.5°	664.0	975.0	2823.2	1097.5	701.9
75°	237.8	373.2	1741.8	400.9	248.7
77.5°	135.0	151.2	769.8	151.8	139.7
80°	87.0	94.2	222.3	99.5	84.7
82.5°	49.4	65.9	97.5	69.8	45.5
85°	26.7	41.8	43.1	42.8	26.7
87.5°	9.6	16.5	9.6	18.8	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)