

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: P596607

Luminaire Tested: **MSA-SA2C-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2C-827-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: 9768 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

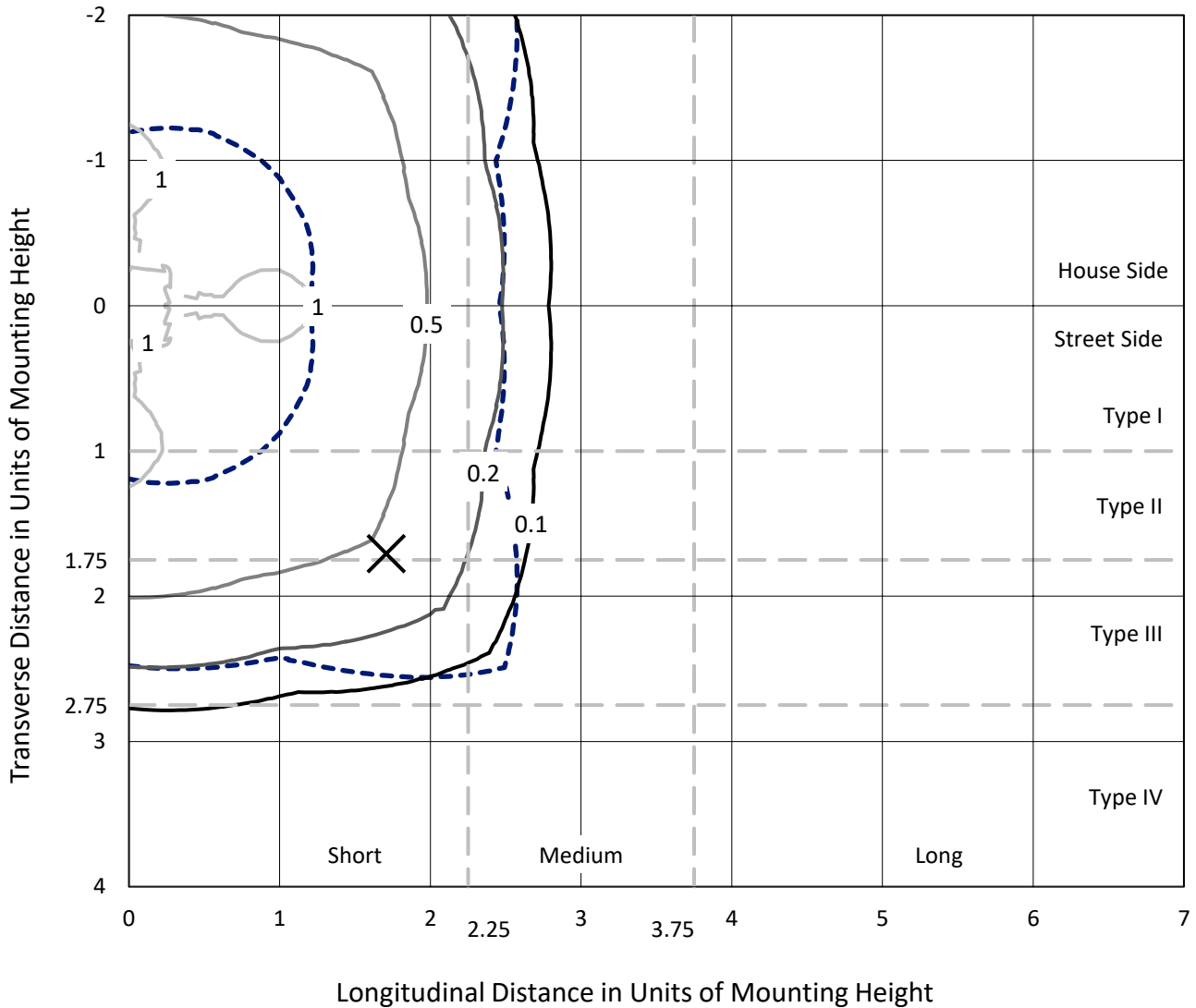
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

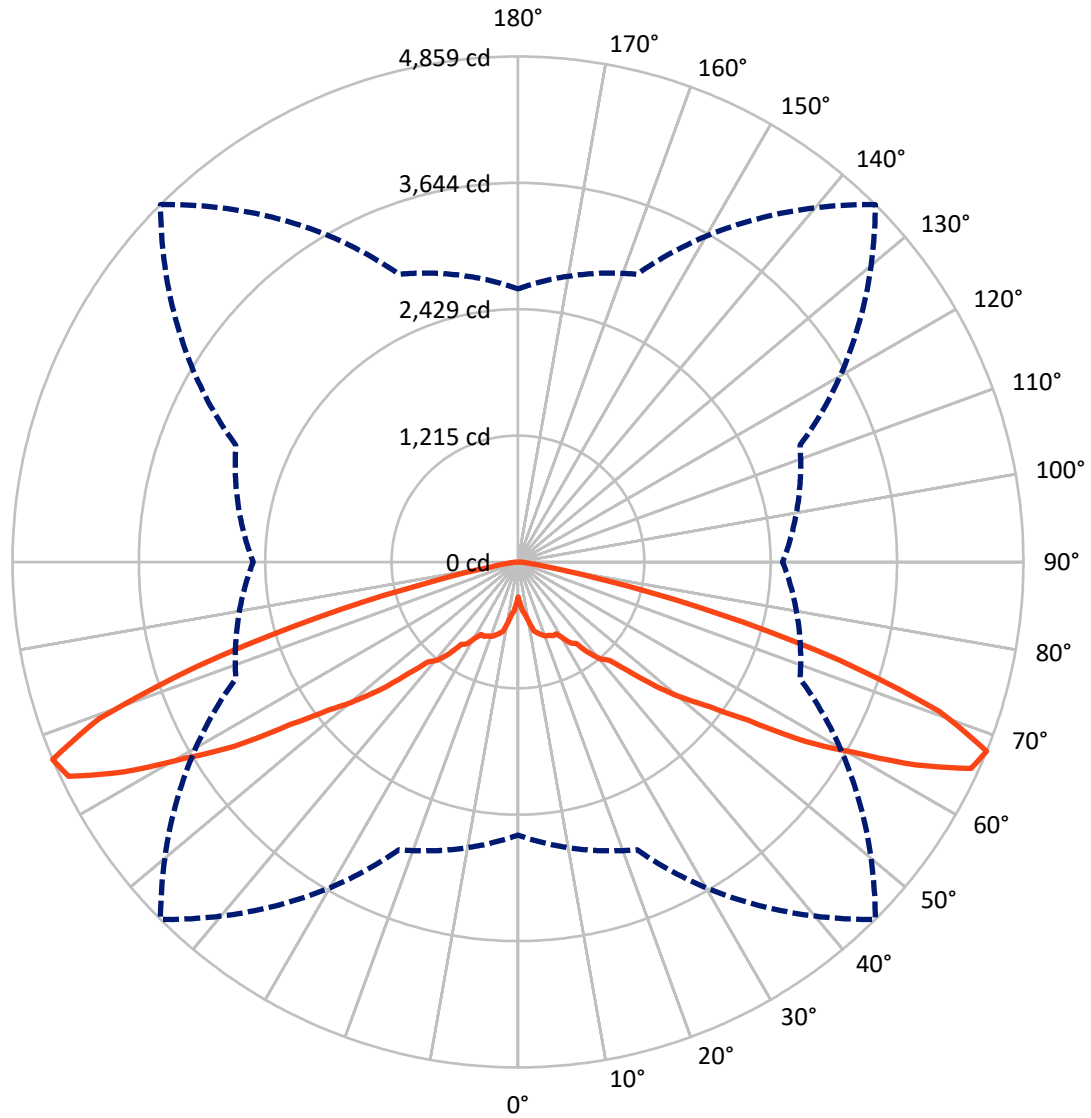
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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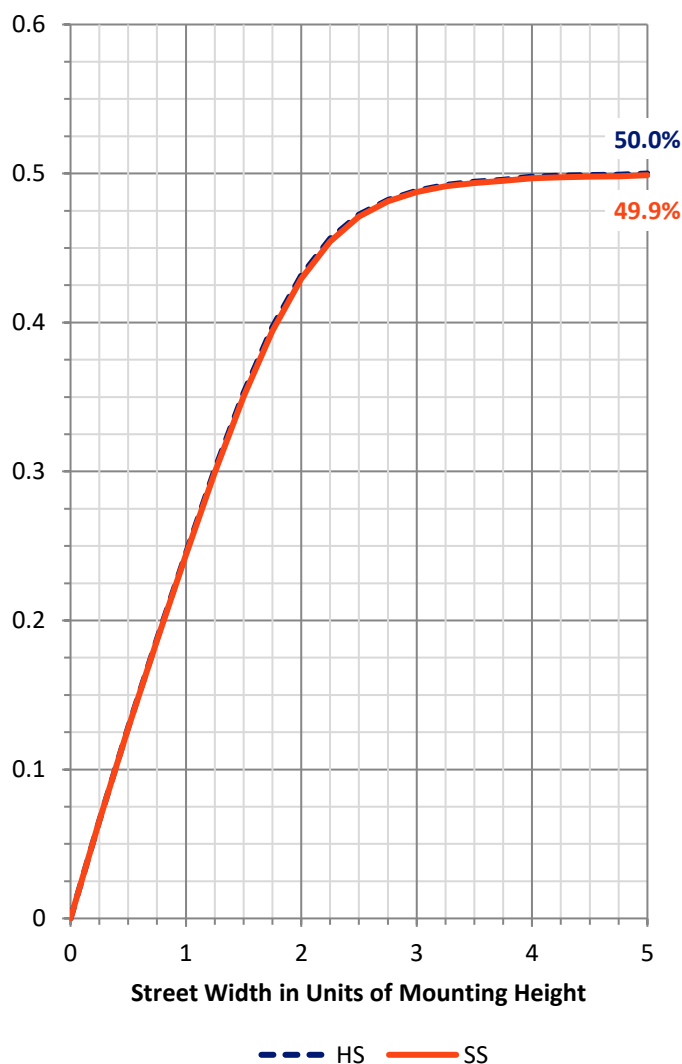
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4884.0	0.0	4884.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4884.0	0.0	4884.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9768.0	0.0	9768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	0.5
10°-20°	197.4	2.0
20°-30°	376.6	3.9
30°-40°	688.5	7.0
40°-50°	1334.9	13.7
50°-60°	2549.2	26.1
60°-70°	3444.3	35.3
70°-80°	1069.7	11.0
80°-90°	57.6	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°	9768.0	100.0
0°-180°	9768.0	100.0

Coefficient of Utilization

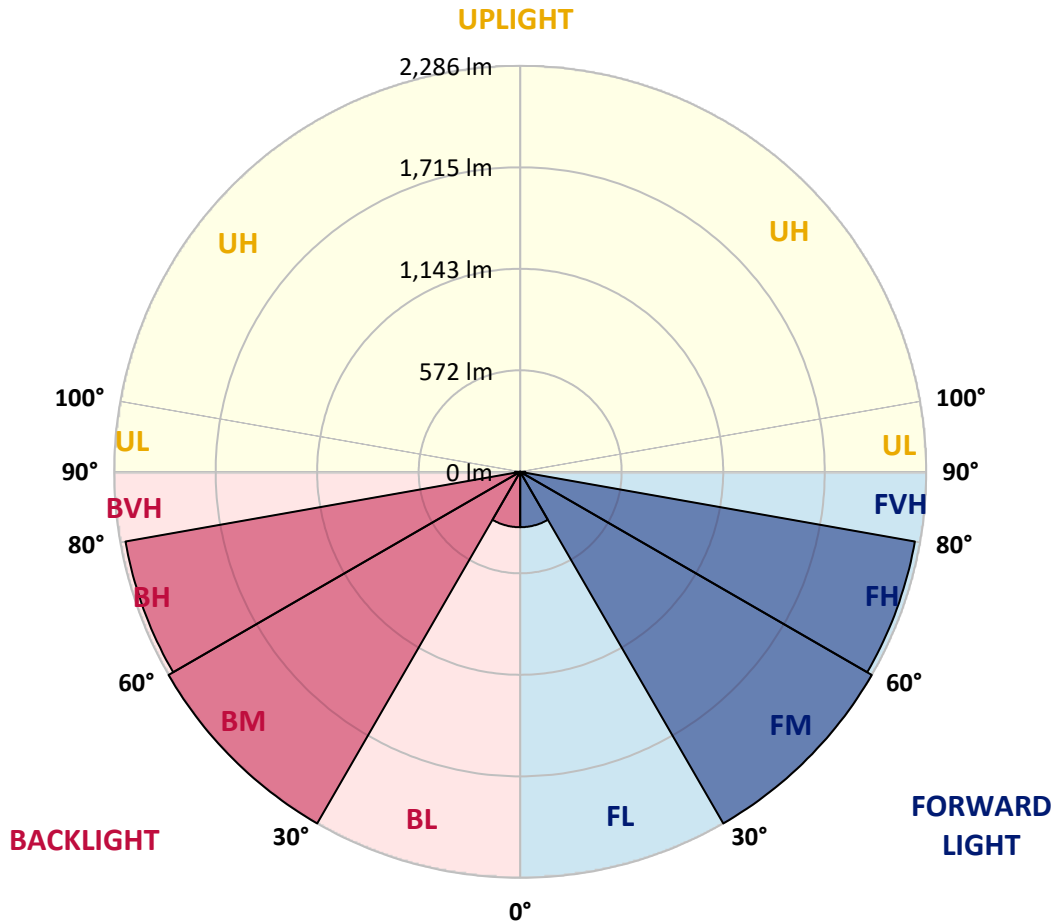


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.9	3.2			
FM (30°-60°)	2286.3	23.4			
FH (60°-80°)	2257.0	23.1			G2/5000
FVH (80°-90°)	28.8	0.3			G1/100
BL (0°-30°)	311.9	3.2	B1/500		
BM (30°-60°)	2286.3	23.4	B2/2500		
BH (60°-80°)	2257.0	23.1	B3/2500		G2/5000
BVH (80°-90°)	28.8	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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	334.7	334.7	334.7	334.7	334.7
2.5°	412.1	385.7	397.7	385.7	412.1
5°	523.8	496.2	472.1	489.4	525.3
7.5°	601.9	560.8	509.8	556.2	598.5
10°	615.1	592.1	589.8	589.4	613.6
12.5°	664.5	649.1	680.0	650.6	666.1
15°	703.0	694.4	708.3	705.3	704.5
17.5°	762.7	703.8	735.5	700.4	760.8
20°	789.1	705.7	758.9	701.5	788.7
22.5°	821.5	750.2	766.1	752.1	818.5
25°	840.0	778.9	784.5	779.6	840.4
27.5°	915.9	842.3	781.9	852.5	929.8
30°	973.6	883.4	843.8	884.6	980.8
32.5°	1057.0	944.9	929.5	960.0	1070.2
35°	1160.4	1048.3	961.5	1048.7	1182.3
37.5°	1363.1	1142.3	1111.7	1175.5	1378.1
40°	1506.1	1290.6	1225.3	1314.4	1530.6
42.5°	1725.7	1457.0	1291.4	1469.1	1763.4
45°	1930.2	1658.9	1501.9	1672.9	1957.8
47.5°	2146.5	1844.2	1785.3	1861.6	2166.8
50°	2401.9	2095.1	2054.0	2114.8	2410.6
52.5°	2703.5	2431.0	2309.5	2442.3	2706.5
55°	3061.6	2712.9	2685.7	2743.8	3066.1
57.5°	3411.8	3078.2	3252.5	3081.6	3351.0
60°	3661.6	3414.8	3718.6	3328.0	3526.9
62.5°	3677.4	3664.2	4299.0	3517.1	3489.1
65°	3334.8	3563.5	4785.0	3448.4	3167.2
67.5°	2625.0	2993.7	4858.6	2935.5	2544.6
70°	1649.5	2072.9	4295.2	2152.5	1696.3
72.5°	760.8	1117.0	3234.4	1257.4	804.2
75°	272.5	427.6	1995.5	459.3	284.9
77.5°	154.7	173.2	881.9	174.0	160.0
80°	99.6	107.9	254.7	114.0	97.0
82.5°	56.6	75.5	111.7	80.0	52.1
85°	30.6	47.9	49.4	49.1	30.6
87.5°	10.9	18.9	10.9	21.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)