

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: P596629

Luminaire Tested: **MSA-SA2D-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596629
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-SA2D-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: 10679 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

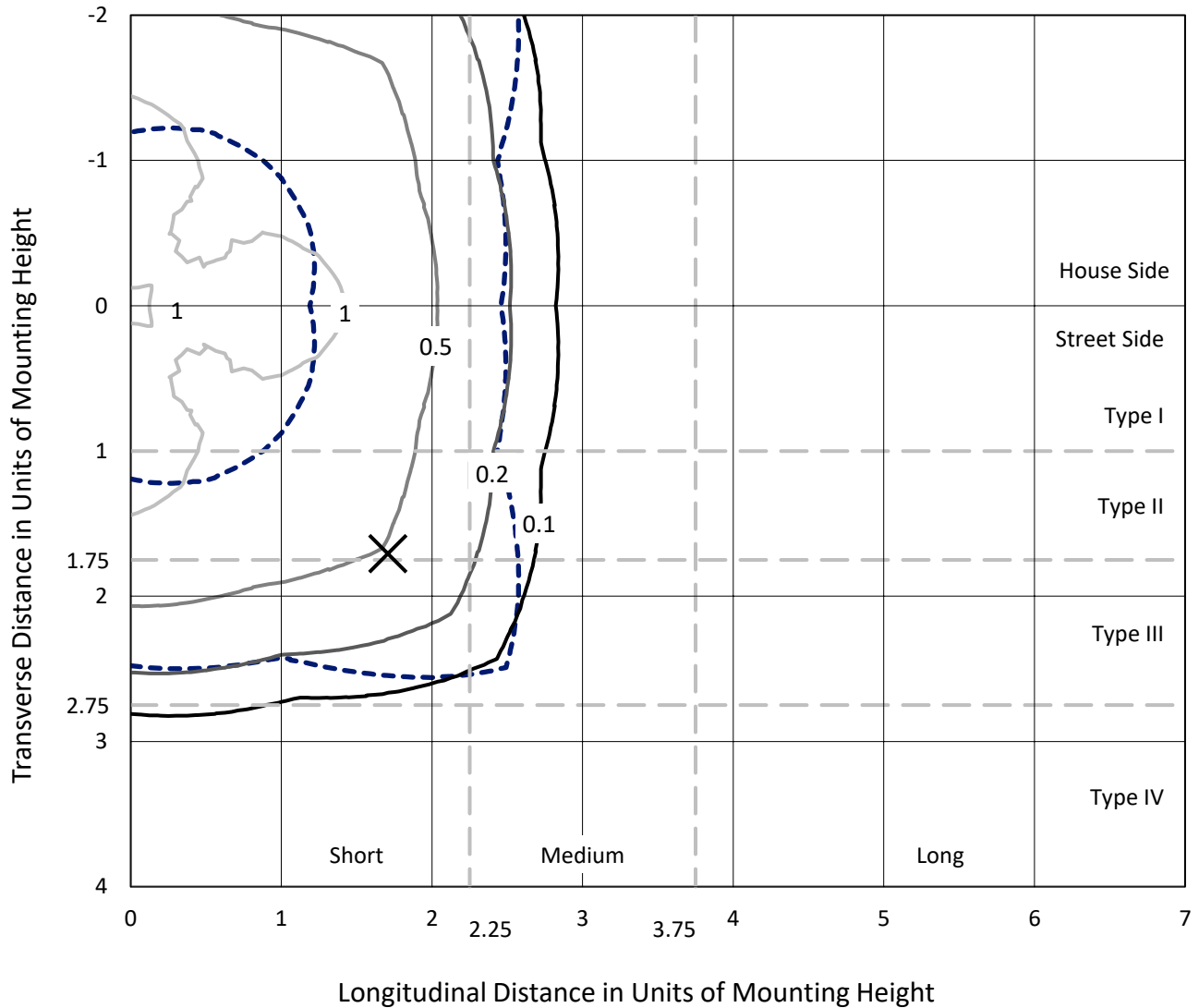
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P596629
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Iso-Footcandle Lines of Horizontal Illumination

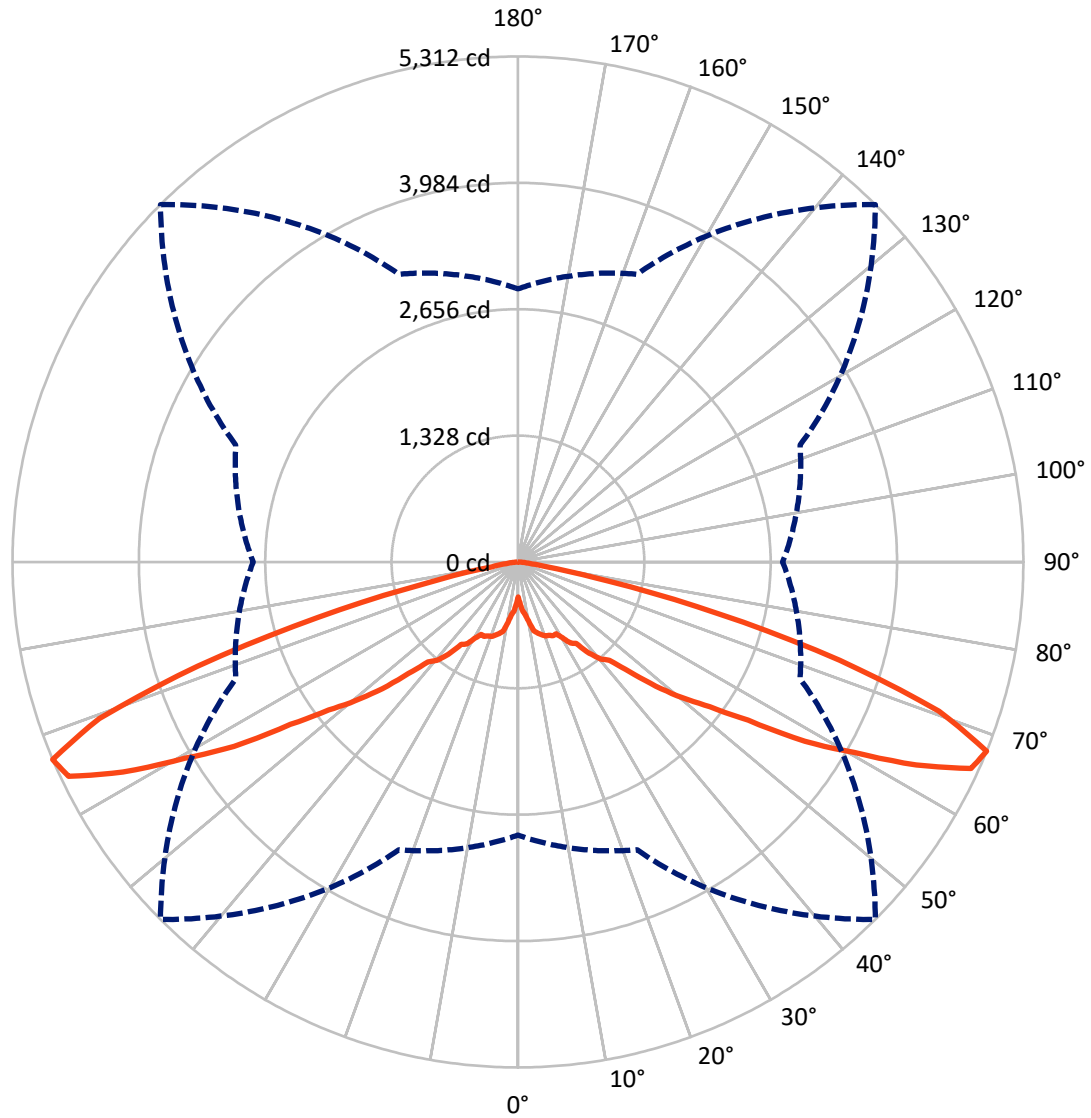
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - N/A

REPORT NUMBER: P596629
CATALOG NUMBER: MSA-SA2D-827-U-5MQ

Luminous Intensity Polar Plot



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

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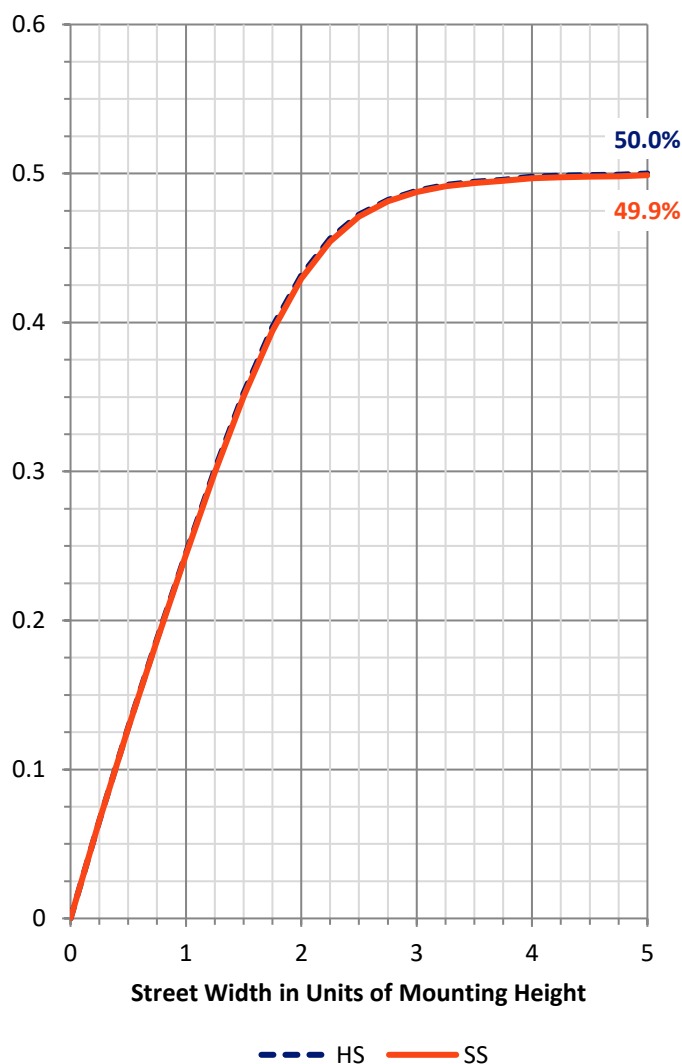
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5339.5	0.0	5339.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5339.5	0.0	5339.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10679.0	0.0	10679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	0.5
10°-20°	215.8	2.0
20°-30°	411.7	3.9
30°-40°	752.7	7.0
40°-50°	1459.4	13.7
50°-60°	2787.0	26.1
60°-70°	3765.5	35.3
70°-80°	1169.4	11.0
80°-90°	63.0	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°	10679.0	100.0
0°-180°	10679.0	100.0

Coefficient of Utilization



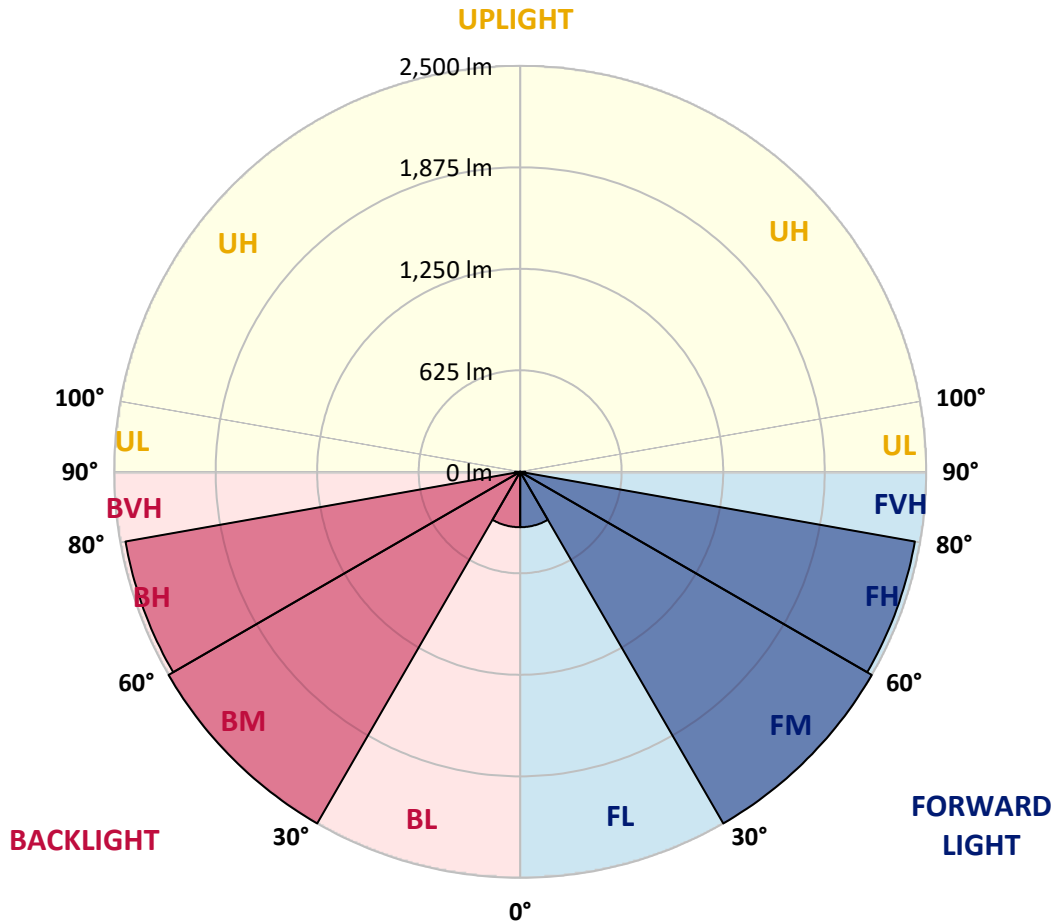
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 CATALOG NUMBER: MSA-SA2D-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.0	3.2			
FM (30°-60°)	2499.5	23.4			
FH (60°-80°)	2467.5	23.1			G2/5000
FVH (80°-90°)	31.5	0.3			G1/100
BL (0°-30°)	341.0	3.2	B1/500		
BM (30°-60°)	2499.5	23.4	B2/2500		
BH (60°-80°)	2467.5	23.1	B3/2500		G2/5000
BVH (80°-90°)	31.5	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°	365.9	365.9	365.9	365.9	365.9
2.5°	450.5	421.6	434.8	421.6	450.5
5°	572.6	542.5	516.1	535.1	574.3
7.5°	658.0	613.1	557.4	608.1	654.3
10°	672.5	647.3	644.8	644.4	670.8
12.5°	726.5	709.6	743.4	711.3	728.2
15°	768.6	759.1	774.4	771.1	770.3
17.5°	833.8	769.4	804.1	765.7	831.7
20°	862.7	771.5	829.7	767.0	862.3
22.5°	898.1	820.2	837.5	822.2	894.8
25°	918.4	851.5	857.7	852.4	918.8
27.5°	1001.3	920.8	854.8	932.0	1016.6
30°	1064.4	965.8	922.5	967.0	1072.3
32.5°	1155.6	1033.1	1016.1	1049.6	1170.0
35°	1268.6	1146.1	1051.2	1146.5	1292.6
37.5°	1490.2	1248.8	1215.4	1285.1	1506.7
40°	1646.5	1411.0	1339.6	1437.0	1673.4
42.5°	1886.6	1592.9	1411.8	1606.1	1927.9
45°	2110.3	1813.6	1642.0	1828.9	2140.4
47.5°	2346.7	2016.2	1951.8	2035.2	2368.9
50°	2626.0	2290.5	2245.6	2312.0	2635.4
52.5°	2955.6	2657.7	2524.9	2670.1	2958.9
55°	3347.1	2965.9	2936.2	2999.7	3352.1
57.5°	3730.0	3365.3	3555.9	3369.0	3663.6
60°	4003.1	3733.3	4065.4	3638.4	3855.8
62.5°	4020.4	4006.0	4699.9	3845.1	3814.6
65°	3645.8	3895.8	5231.3	3770.0	3462.6
67.5°	2869.8	3272.9	5311.7	3209.3	2781.9
70°	1803.3	2266.2	4695.8	2353.3	1854.5
72.5°	831.7	1221.2	3536.1	1374.7	879.2
75°	297.9	467.4	2181.6	502.1	311.5
77.5°	169.2	189.4	964.2	190.2	174.9
80°	108.9	118.0	278.5	124.6	106.0
82.5°	61.9	82.5	122.1	87.5	56.9
85°	33.4	52.4	54.0	53.6	33.4
87.5°	12.0	20.6	12.0	23.5	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)