

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: P596563

Luminaire Tested: **MSA-SA2A-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596563
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-SA2A-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: 6293 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

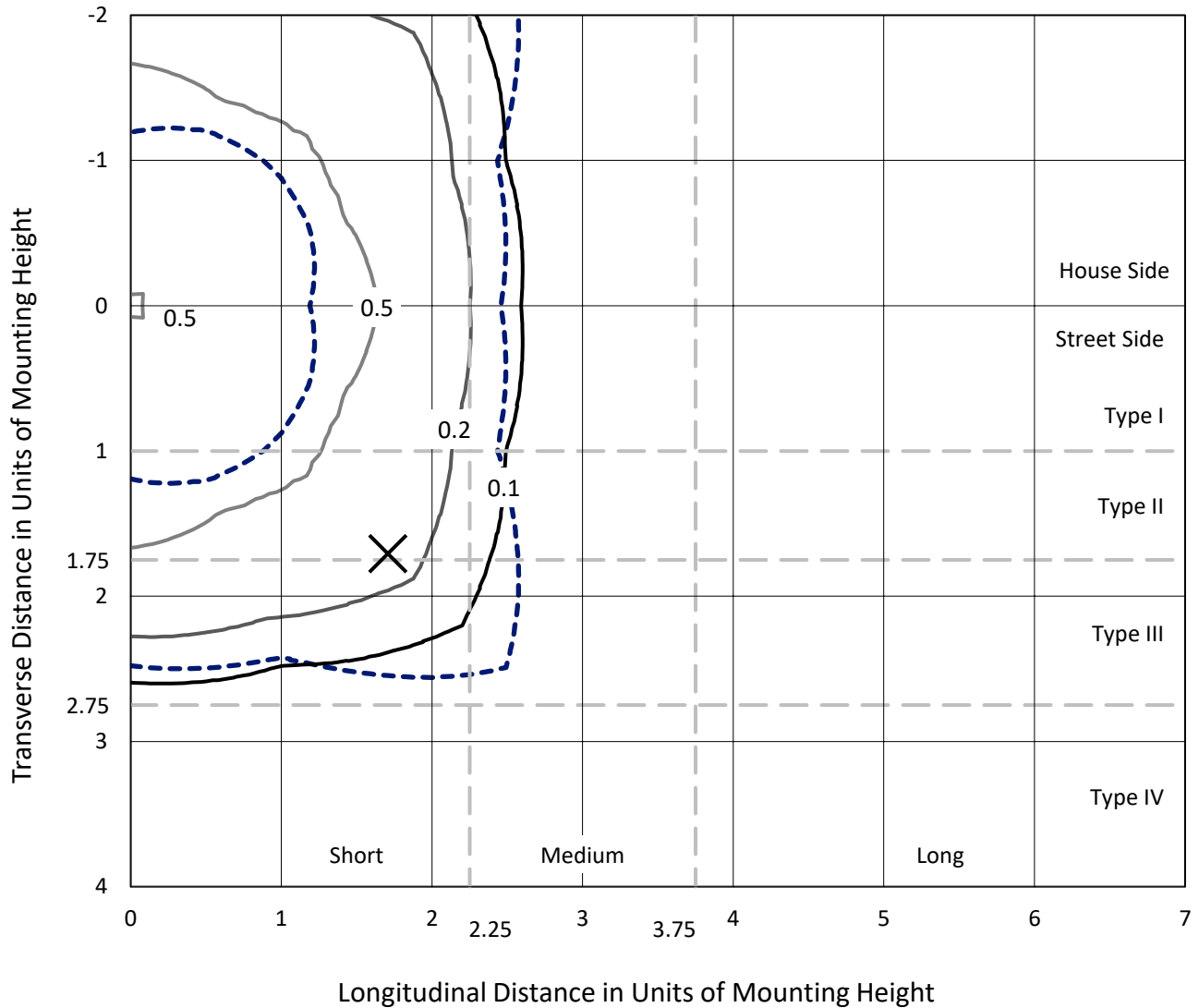
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

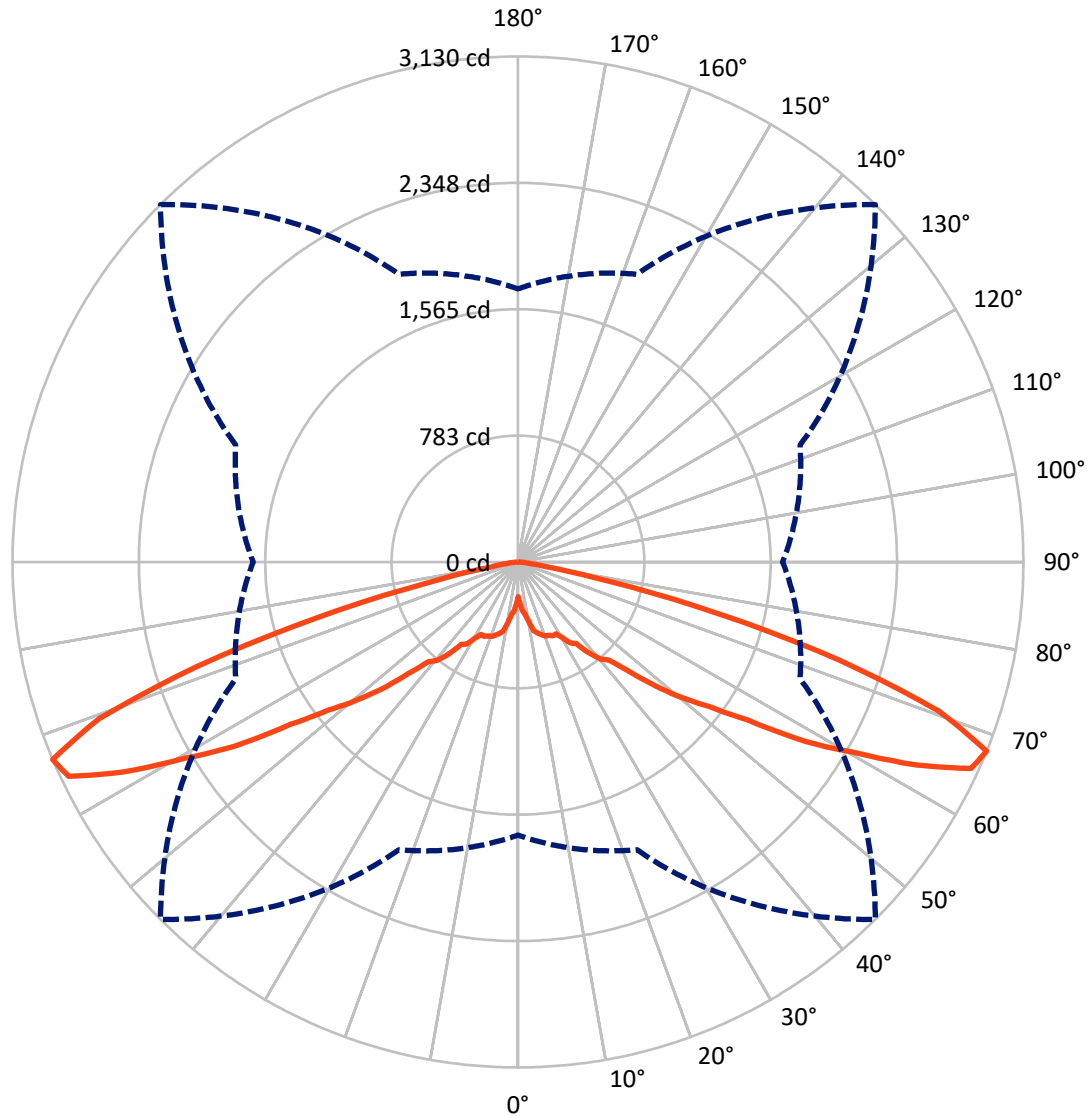
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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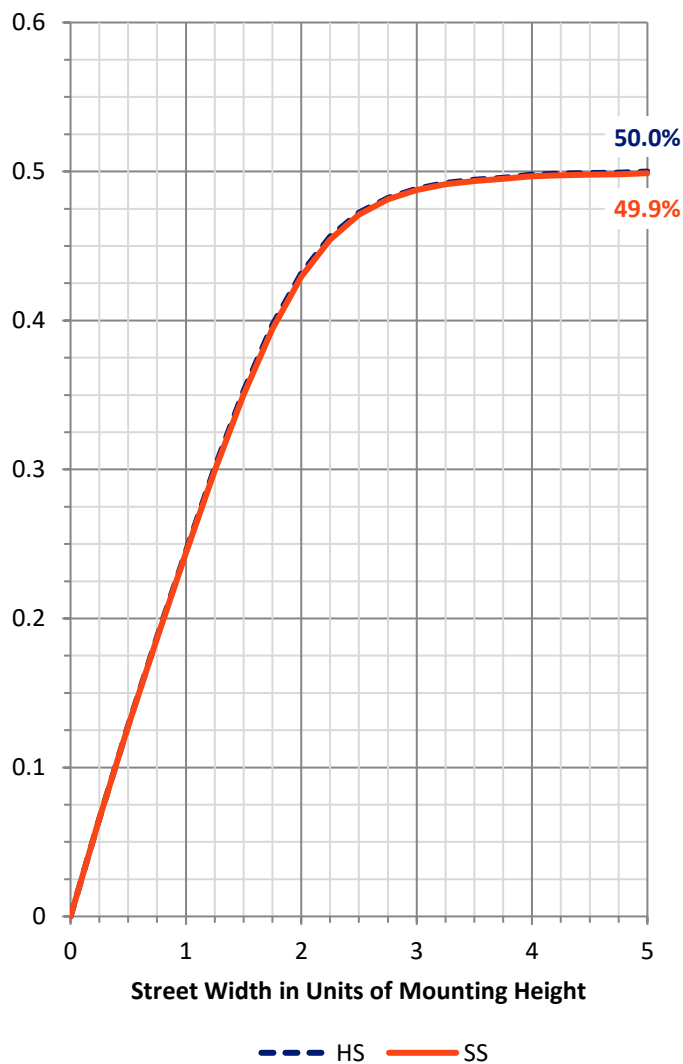
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3146.5	0.0	3146.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3146.5	0.0	3146.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6293.0	0.0	6293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	0.5
10°-20°	127.1	2.0
20°-30°	242.6	3.9
30°-40°	443.5	7.0
40°-50°	860.0	13.7
50°-60°	1642.3	26.1
60°-70°	2219.0	35.3
70°-80°	689.1	11.0
80°-90°	37.1	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°	6293.0	100.0
0°-180°	6293.0	100.0

Coefficient of Utilization

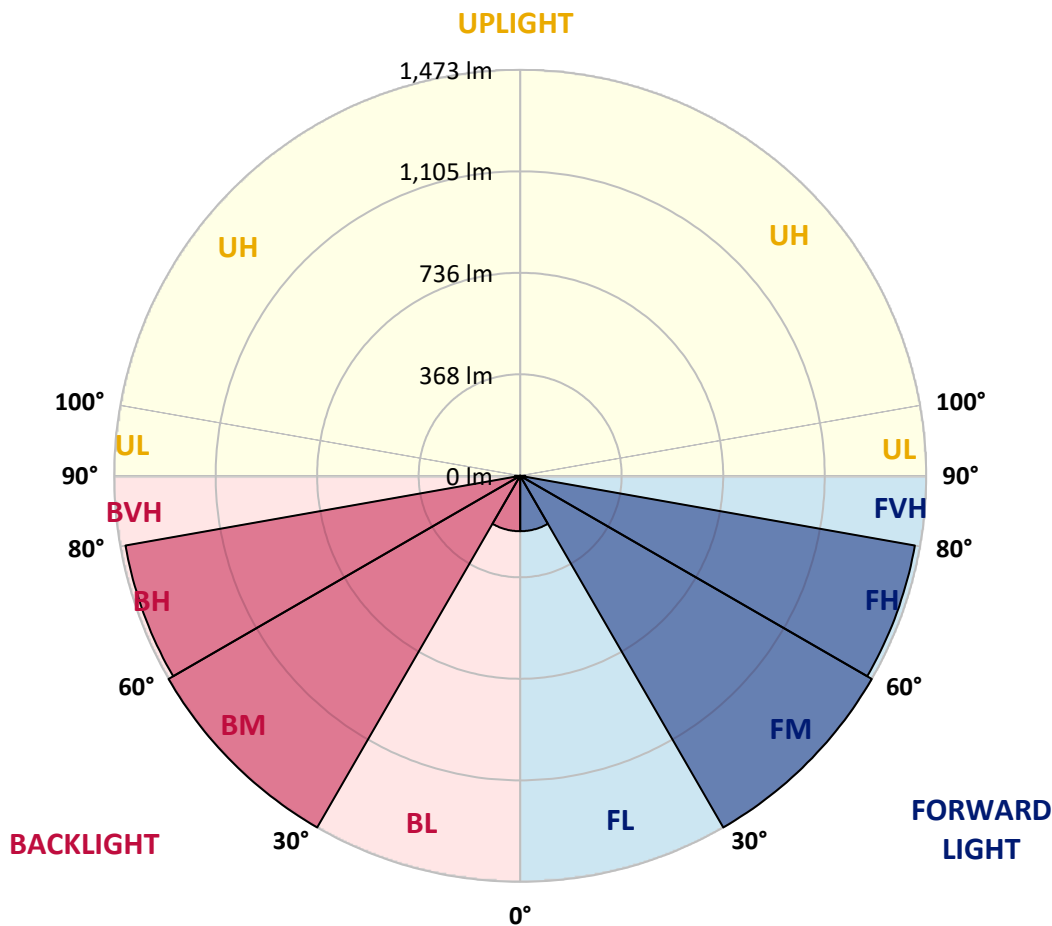


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.9	3.2			
FM (30°-60°)	1472.9	23.4			
FH (60°-80°)	1454.0	23.1			G1/1800
FVH (80°-90°)	18.6	0.3			G1/100
BL (0°-30°)	200.9	3.2	B1/500		
BM (30°-60°)	1472.9	23.4	B2/2500		
BH (60°-80°)	1454.0	23.1	B3/2500		G1/1800
BVH (80°-90°)	18.6	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°	215.6	215.6	215.6	215.6	215.6
2.5°	265.5	248.5	256.2	248.5	265.5
5°	337.4	319.7	304.1	315.3	338.4
7.5°	387.8	361.3	328.5	358.4	385.6
10°	396.3	381.5	380.0	379.8	395.3
12.5°	428.1	418.2	438.1	419.1	429.1
15°	452.9	447.3	456.3	454.4	453.9
17.5°	491.3	453.4	473.8	451.2	490.1
20°	508.4	454.6	488.9	452.0	508.1
22.5°	529.3	483.3	493.5	484.5	527.3
25°	541.2	501.8	505.4	502.3	541.4
27.5°	590.0	542.6	503.7	549.2	599.0
30°	627.2	569.1	543.6	569.9	631.9
32.5°	681.0	608.8	598.8	618.5	689.5
35°	747.6	675.4	619.5	675.6	761.7
37.5°	878.1	735.9	716.2	757.3	887.9
40°	970.3	831.5	789.4	846.8	986.1
42.5°	1111.8	938.7	831.9	946.5	1136.1
45°	1243.5	1068.7	967.6	1077.7	1261.3
47.5°	1382.9	1188.1	1150.2	1199.3	1396.0
50°	1547.4	1349.8	1323.3	1362.4	1553.0
52.5°	1741.7	1566.2	1487.9	1573.5	1743.6
55°	1972.4	1747.8	1730.3	1767.7	1975.3
57.5°	2198.0	1983.1	2095.4	1985.3	2158.9
60°	2359.0	2200.0	2395.7	2144.1	2272.2
62.5°	2369.2	2360.7	2769.6	2265.9	2247.9
65°	2148.4	2295.8	3082.7	2221.6	2040.5
67.5°	1691.1	1928.7	3130.1	1891.2	1639.3
70°	1062.7	1335.4	2767.2	1386.7	1092.8
72.5°	490.1	719.6	2083.8	810.1	518.1
75°	175.5	275.5	1285.6	295.9	183.6
77.5°	99.7	111.6	568.2	112.1	103.1
80°	64.2	69.5	164.1	73.4	62.5
82.5°	36.5	48.6	72.0	51.5	33.6
85°	19.7	30.9	31.8	31.6	19.7
87.5°	7.1	12.2	7.1	13.9	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)