

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: P596849

Luminaire Tested: **MSA-SA1B-835-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596849
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-SA1B-835-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: 4497 lumens
Efficiency: N/A
Efficacy: 102.2 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

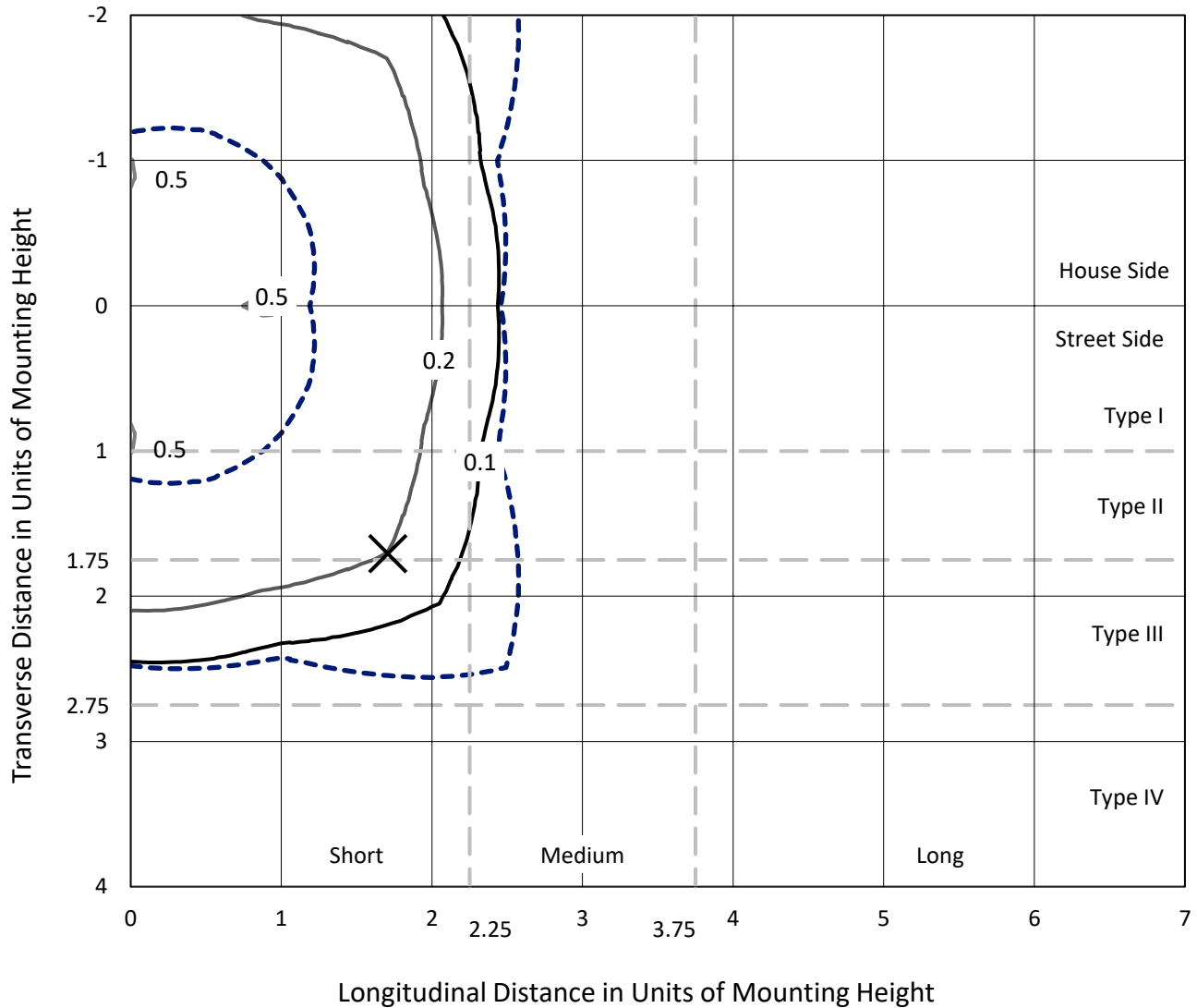
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

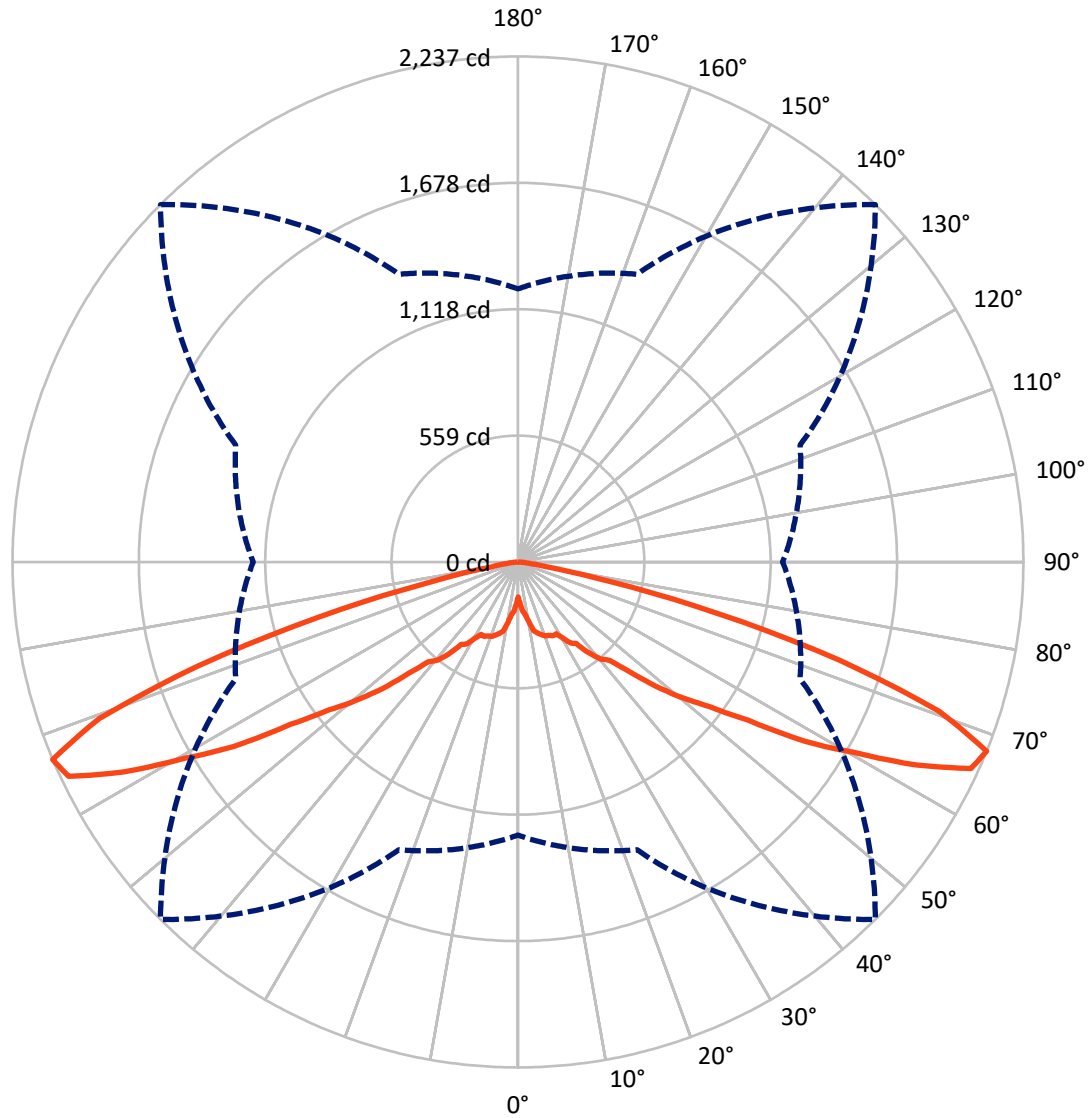
✕ Max cd
 - - - 1/2 Max cd



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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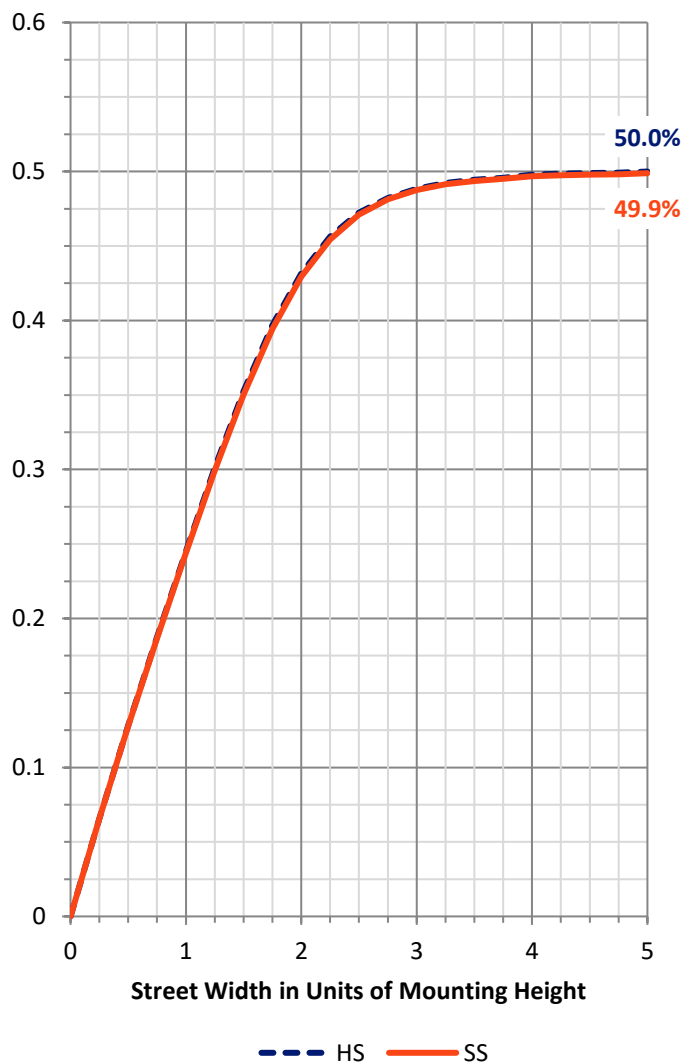
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2248.5	0.0	2248.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2248.5	0.0	2248.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4497.0	0.0	4497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	0.5
10°-20°	90.9	2.0
20°-30°	173.4	3.9
30°-40°	317.0	7.0
40°-50°	614.6	13.7
50°-60°	1173.6	26.1
60°-70°	1585.7	35.3
70°-80°	492.4	11.0
80°-90°	26.5	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°	4497.0	100.0
0°-180°	4497.0	100.0

Coefficient of Utilization



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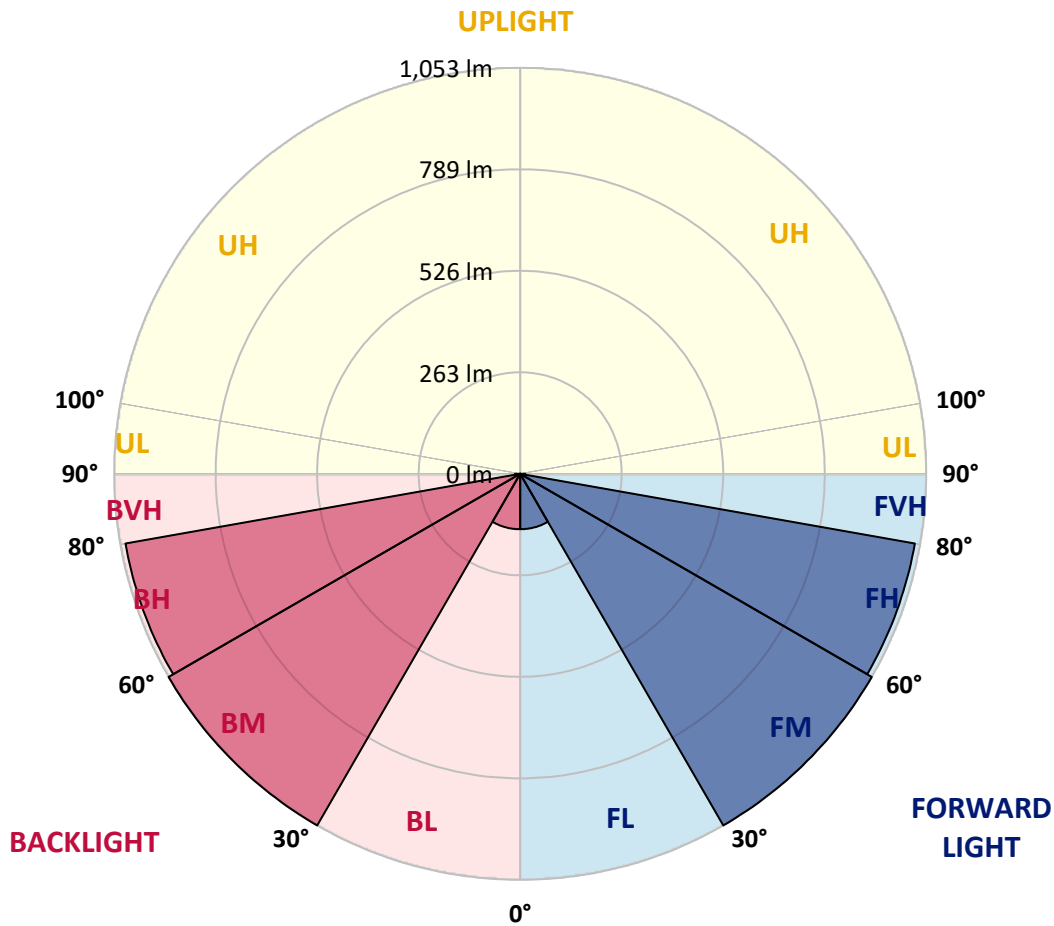
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	143.6	3.2			
FM (30°-60°)	1052.6	23.4			
FH (60°-80°)	1039.1	23.1			G1/1800
FVH (80°-90°)	13.3	0.3			G1/100
BL (0°-30°)	143.6	3.2	B1/500		
BM (30°-60°)	1052.6	23.4	B2/2500		
BH (60°-80°)	1039.1	23.1	B3/2500		G1/1800
BVH (80°-90°)	13.3	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°	154.1	154.1	154.1	154.1	154.1
2.5°	189.7	177.6	183.1	177.6	189.7
5°	241.1	228.5	217.3	225.3	241.8
7.5°	277.1	258.2	234.7	256.1	275.5
10°	283.2	272.6	271.5	271.4	282.5
12.5°	305.9	298.8	313.1	299.5	306.6
15°	323.7	319.7	326.1	324.7	324.4
17.5°	351.1	324.0	338.6	322.4	350.2
20°	363.3	324.9	349.4	323.0	363.1
22.5°	378.2	345.4	352.7	346.2	376.8
25°	386.7	358.6	361.2	358.9	386.9
27.5°	421.6	387.8	360.0	392.5	428.1
30°	448.2	406.7	388.5	407.2	451.5
32.5°	486.6	435.0	427.9	442.0	492.7
35°	534.2	482.6	442.7	482.8	544.3
37.5°	627.5	525.9	511.8	541.2	634.5
40°	693.4	594.2	564.1	605.1	704.7
42.5°	794.5	670.8	594.5	676.3	811.9
45°	888.6	763.7	691.5	770.2	901.3
47.5°	988.2	849.0	821.9	857.0	997.6
50°	1105.8	964.6	945.6	973.6	1109.8
52.5°	1244.6	1119.2	1063.2	1124.4	1246.0
55°	1409.5	1249.0	1236.5	1263.2	1411.6
57.5°	1570.7	1417.1	1497.4	1418.7	1542.7
60°	1685.7	1572.1	1712.0	1532.2	1623.7
62.5°	1693.0	1686.9	1979.2	1619.2	1606.3
65°	1535.3	1640.6	2202.9	1587.6	1458.1
67.5°	1208.5	1378.2	2236.8	1351.5	1171.5
70°	759.4	954.3	1977.4	991.0	780.9
72.5°	350.2	514.2	1489.1	578.9	370.2
75°	125.4	196.8	918.7	211.4	131.2
77.5°	71.2	79.7	406.0	80.1	73.7
80°	45.9	49.7	117.3	52.5	44.6
82.5°	26.1	34.7	51.4	36.8	24.0
85°	14.1	22.1	22.8	22.6	14.1
87.5°	5.0	8.7	5.0	9.9	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)