

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: P597135

Luminaire Tested: **MSA-SA4C-835-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597135
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-SA4C-835-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21366 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

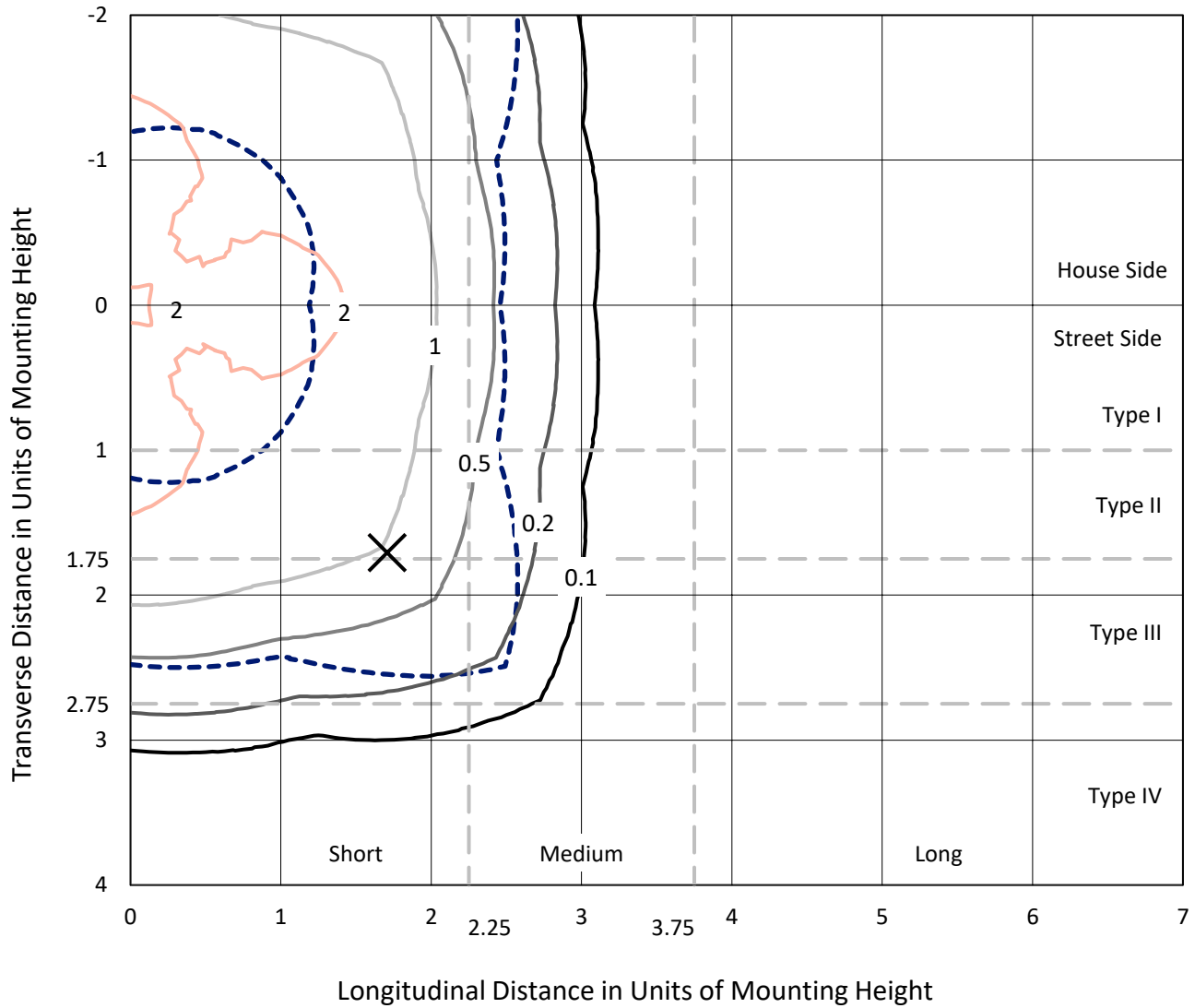
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

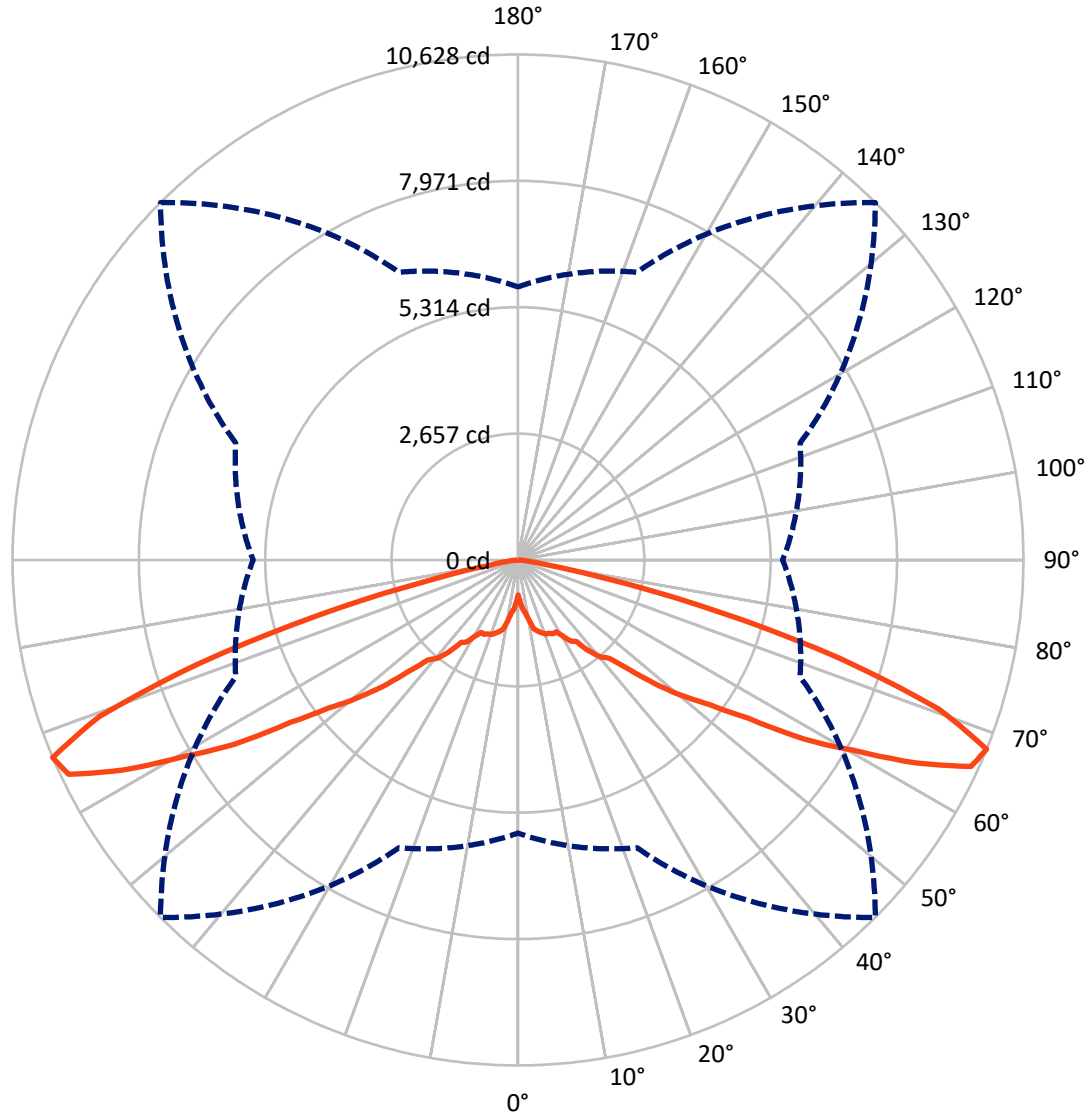
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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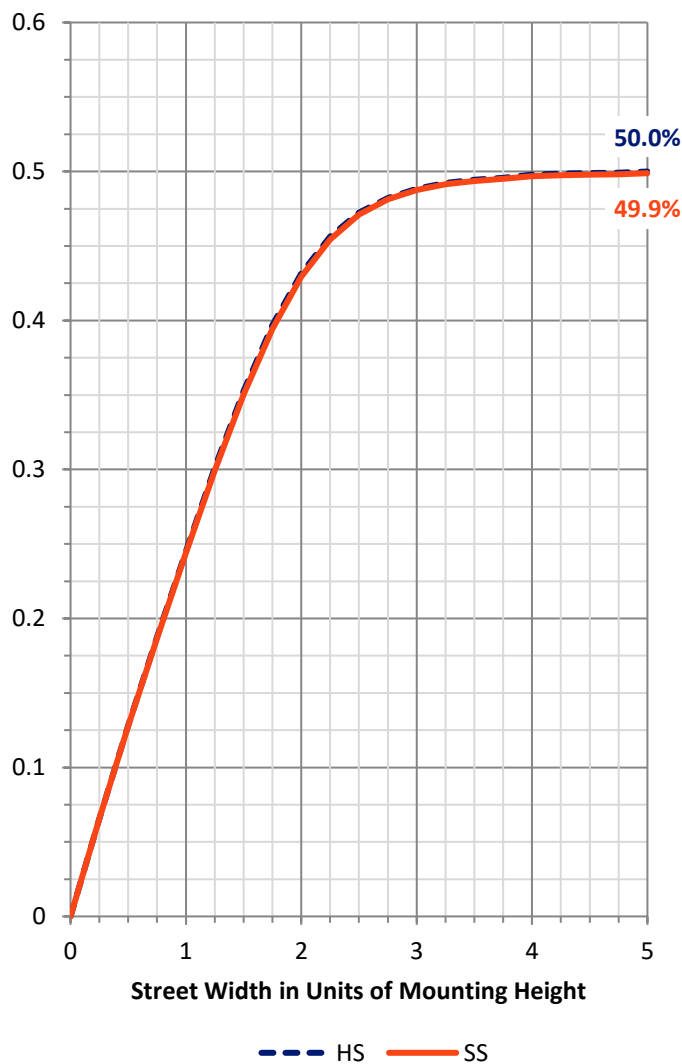
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10683.0	0.0	10683.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10683.0	0.0	10683.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21366.0	0.0	21366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	0.5
10°-20°	431.7	2.0
20°-30°	823.7	3.9
30°-40°	1505.9	7.0
40°-50°	2919.9	13.7
50°-60°	5576.0	26.1
60°-70°	7533.8	35.3
70°-80°	2339.8	11.0
80°-90°	126.0	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°	21366.0	100.0
0°-180°	21366.0	100.0

Coefficient of Utilization

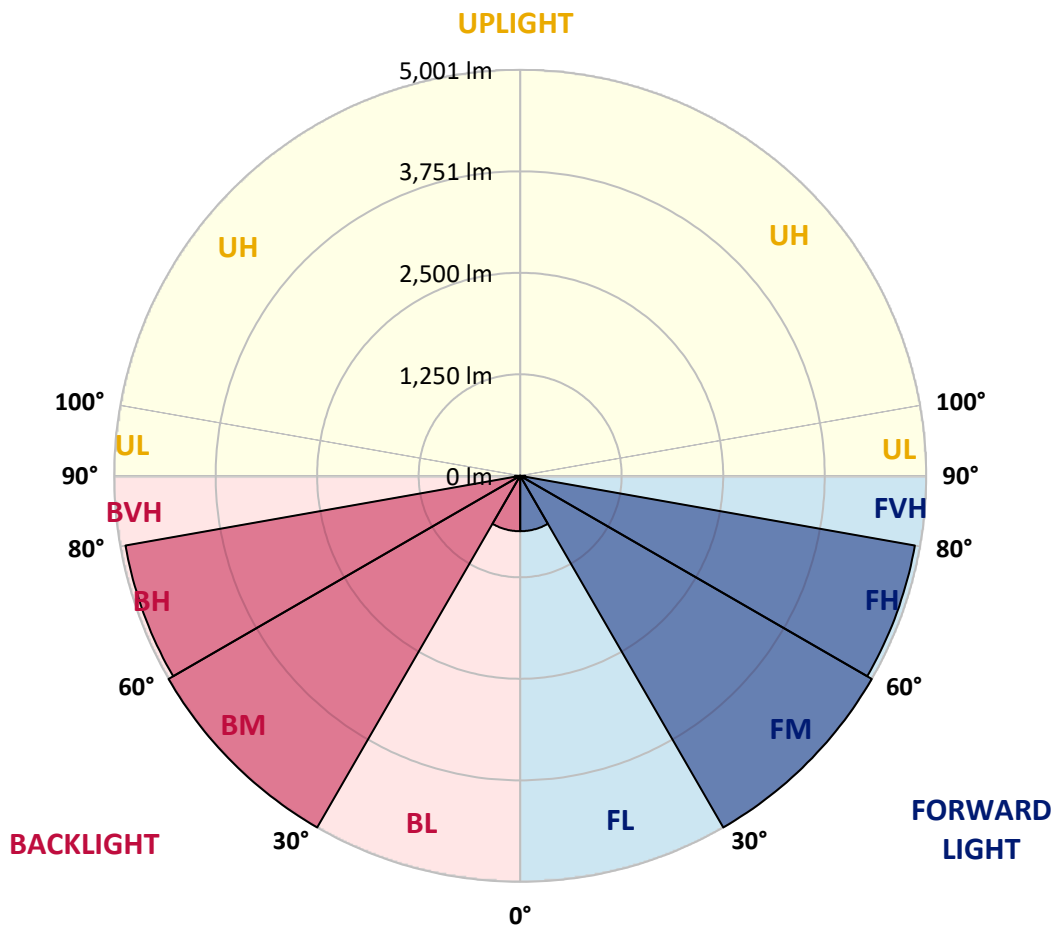


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.3	3.2			
FM (30°-60°)	5000.9	23.4			
FH (60°-80°)	4936.8	23.1			G2/5000
FVH (80°-90°)	63.0	0.3			G1/100
BL (0°-30°)	682.3	3.2	B2/1000		
BM (30°-60°)	5000.9	23.4	B4/8500		
BH (60°-80°)	4936.8	23.1	B4/5000		G2/5000
BVH (80°-90°)	63.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.2	732.2	732.2	732.2	732.2
2.5°	901.4	843.6	870.0	843.6	901.4
5°	1145.7	1085.4	1032.6	1070.6	1149.0
7.5°	1316.6	1226.6	1115.2	1216.7	1309.1
10°	1345.5	1295.1	1290.2	1289.3	1342.2
12.5°	1453.6	1419.7	1487.4	1423.0	1456.9
15°	1537.8	1518.8	1549.3	1542.7	1541.1
17.5°	1668.2	1539.4	1608.8	1532.0	1664.1
20°	1726.0	1543.6	1659.9	1534.5	1725.2
22.5°	1797.0	1641.0	1675.6	1645.1	1790.4
25°	1837.4	1703.7	1716.1	1705.3	1838.2
27.5°	2003.3	1842.4	1710.3	1864.7	2033.9
30°	2129.6	1932.3	1845.7	1934.8	2145.3
32.5°	2312.0	2066.9	2033.0	2099.9	2340.9
35°	2538.2	2293.1	2103.2	2293.9	2586.1
37.5°	2981.5	2498.6	2431.7	2571.2	3014.5
40°	3294.3	2823.0	2680.2	2875.0	3348.0
42.5°	3774.7	3187.0	2824.6	3213.4	3857.3
45°	4222.1	3628.6	3285.2	3659.1	4282.4
47.5°	4695.1	4033.9	3905.1	4071.9	4739.6
50°	5253.9	4582.8	4492.8	4625.7	5272.9
52.5°	5913.4	5317.4	5051.7	5342.2	5920.0
55°	6696.7	5934.0	5874.6	6001.7	6706.7
57.5°	7462.7	6733.1	7114.4	6740.5	7329.9
60°	8009.2	7469.4	8133.8	7279.5	7714.5
62.5°	8043.9	8015.0	9403.3	7693.0	7632.0
65°	7294.4	7794.6	10466.5	7542.8	6927.9
67.5°	5741.7	6548.2	10627.5	6421.1	5565.9
70°	3608.0	4534.1	9395.1	4708.3	3710.3
72.5°	1664.1	2443.3	7074.8	2750.3	1759.0
75°	596.0	935.2	4364.9	1004.6	623.2
77.5°	338.4	378.9	1929.0	380.5	350.0
80°	217.9	236.1	557.2	249.3	212.1
82.5°	123.8	165.1	244.3	175.0	113.9
85°	66.9	104.8	108.1	107.3	66.9
87.5°	23.9	41.3	23.9	47.0	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)