

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: P596959

Luminaire Tested: **MSA-SA2C-835-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596959
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-835-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: 10954 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

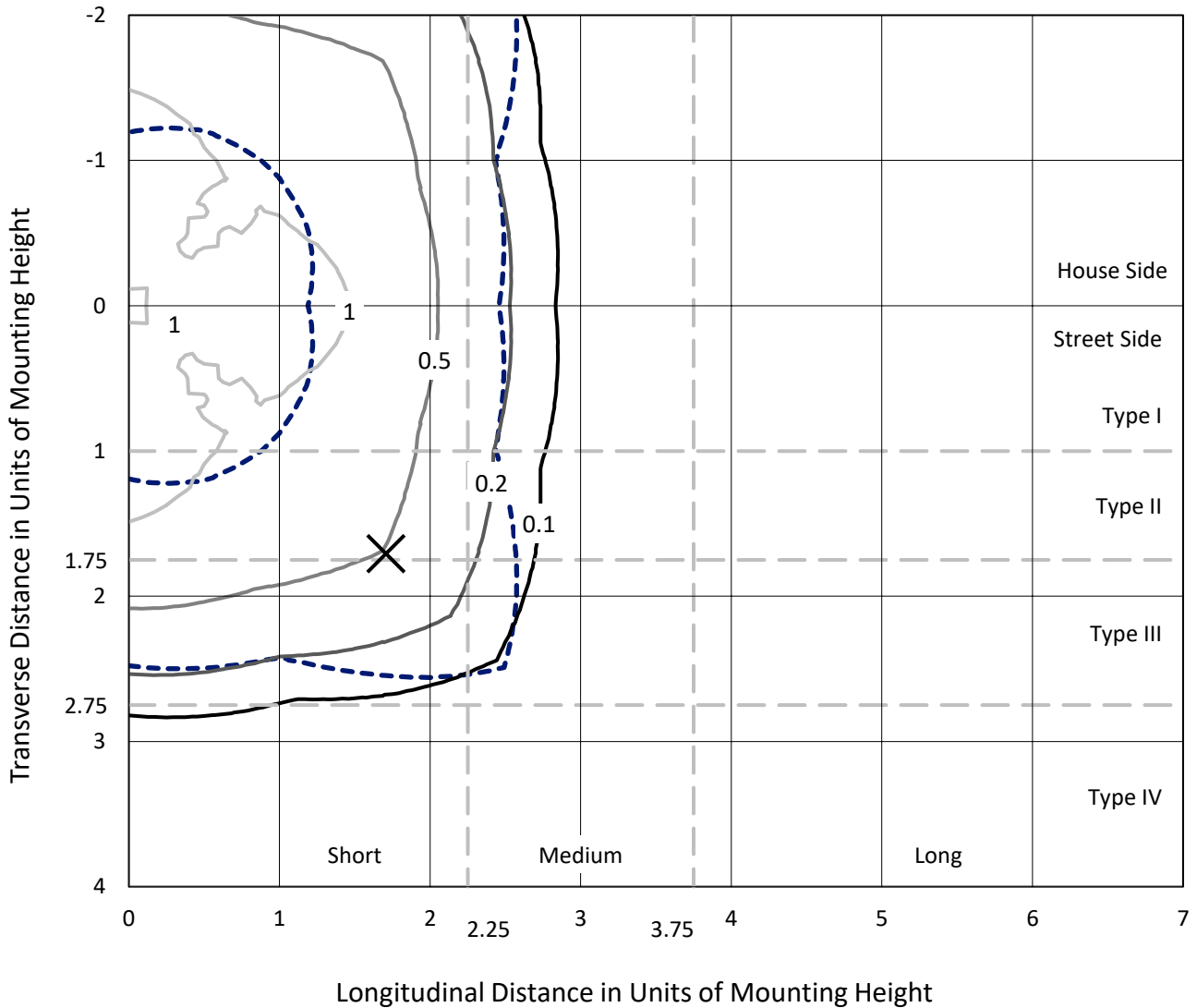
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

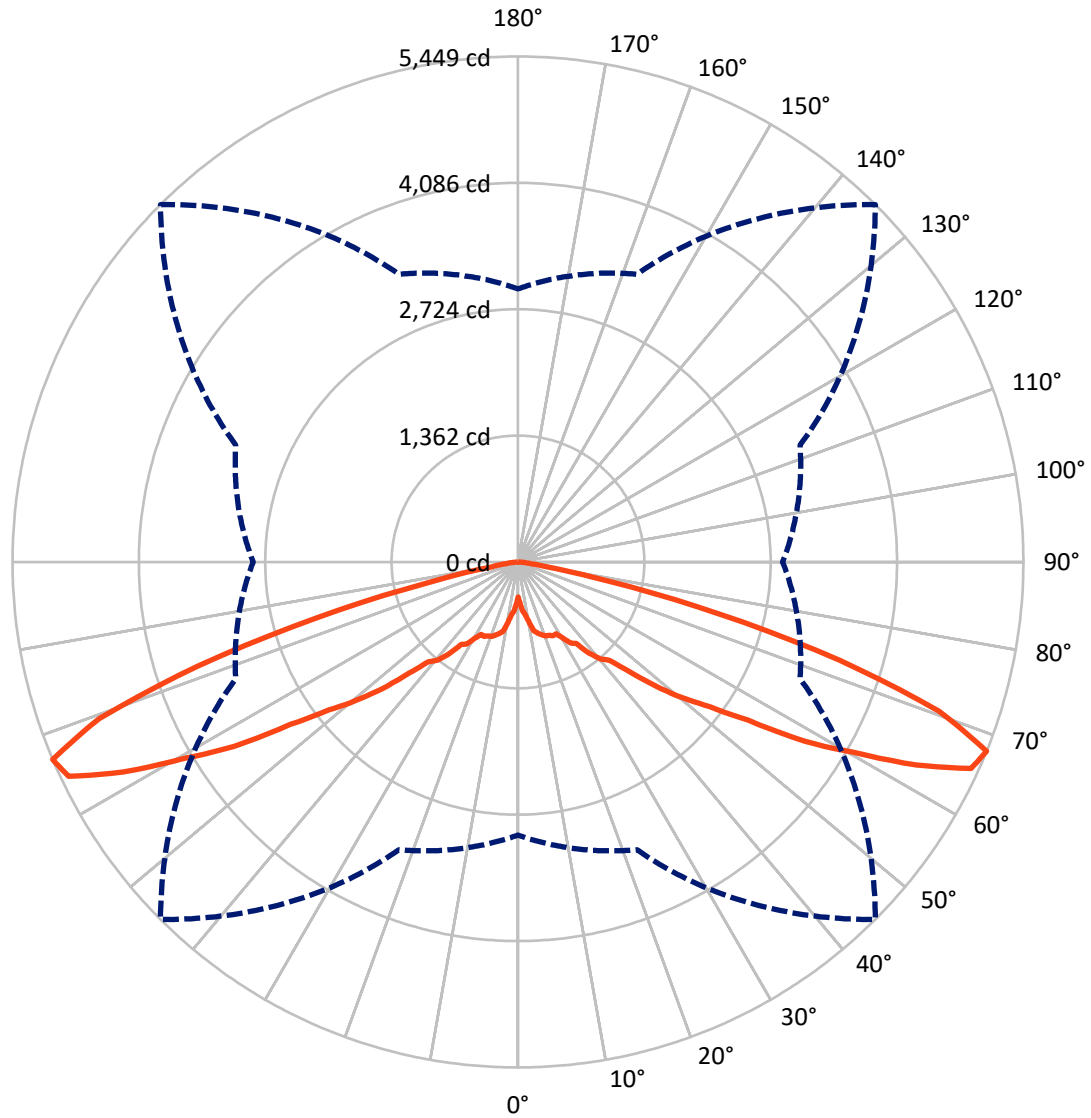
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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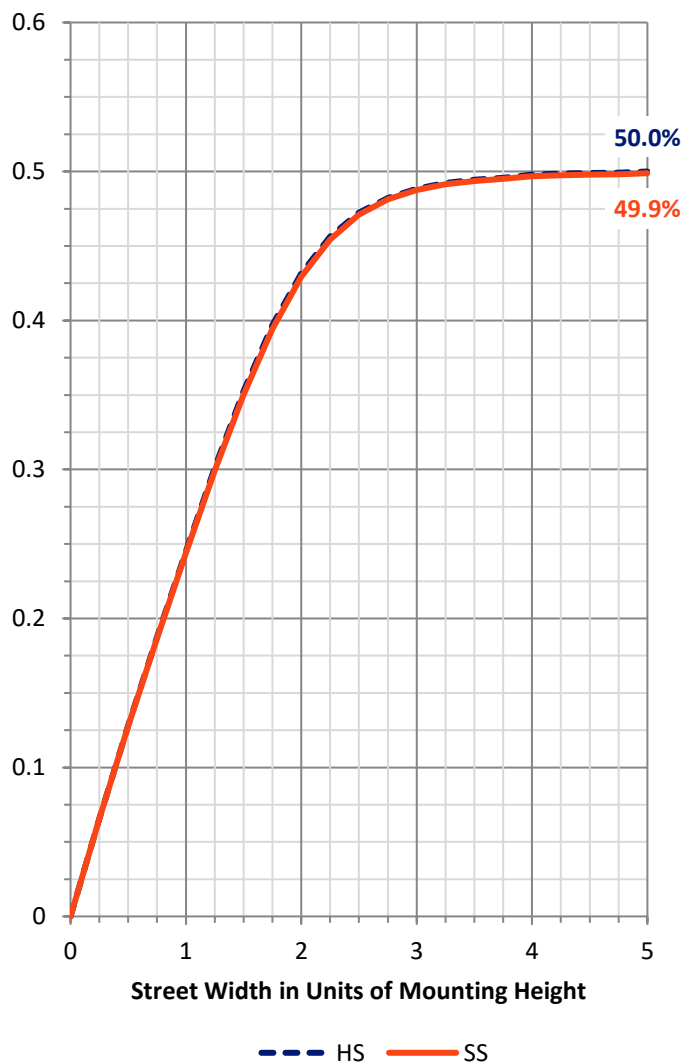
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5477.0	0.0	5477.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5477.0	0.0	5477.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10954.0	0.0	10954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	0.5
10°-20°	221.3	2.0
20°-30°	422.3	3.9
30°-40°	772.1	7.0
40°-50°	1497.0	13.7
50°-60°	2858.7	26.1
60°-70°	3862.4	35.3
70°-80°	1199.5	11.0
80°-90°	64.6	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°	10954.0	100.0
0°-180°	10954.0	100.0

Coefficient of Utilization



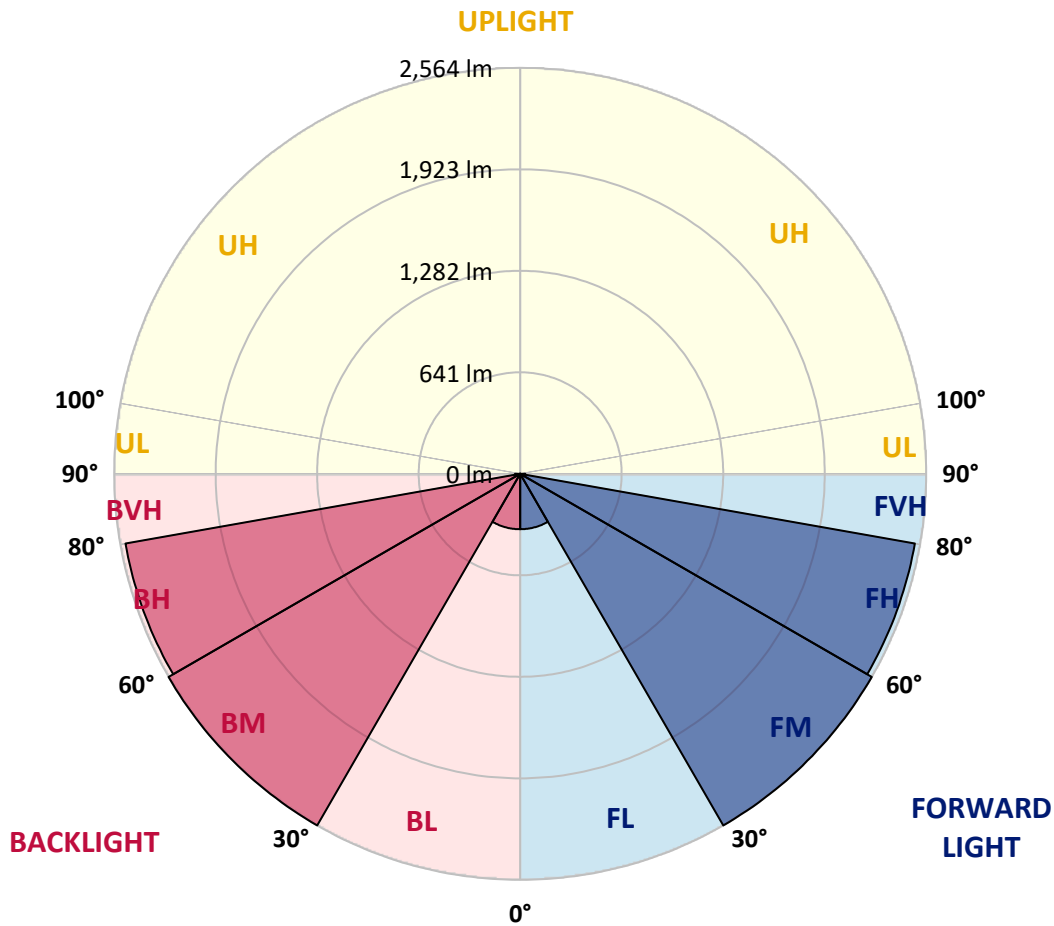
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.8	3.2			
FM (30°-60°)	2563.9	23.4			
FH (60°-80°)	2531.0	23.1			G2/5000
FVH (80°-90°)	32.3	0.3			G1/100
BL (0°-30°)	349.8	3.2	B1/500		
BM (30°-60°)	2563.9	23.4	B3/5000		
BH (60°-80°)	2531.0	23.1	B4/5000		G2/5000
BVH (80°-90°)	32.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	375.4	375.4	375.4	375.4	375.4
2.5°	462.1	432.5	446.0	432.5	462.1
5°	587.4	556.5	529.4	548.9	589.1
7.5°	675.0	628.9	571.7	623.8	671.2
10°	689.8	664.0	661.4	661.0	688.1
12.5°	745.2	727.9	762.6	729.6	746.9
15°	788.4	778.7	794.3	790.9	790.1
17.5°	855.3	789.2	824.8	785.4	853.1
20°	884.9	791.4	851.0	786.7	884.5
22.5°	921.3	841.3	859.1	843.4	917.9
25°	942.0	873.5	879.8	874.3	942.4
27.5°	1027.1	944.6	876.8	956.0	1042.7
30°	1091.8	990.7	946.2	991.9	1099.9
32.5°	1185.3	1059.7	1042.3	1076.6	1200.2
35°	1301.3	1175.6	1078.3	1176.0	1325.8
37.5°	1528.6	1281.0	1246.7	1318.2	1545.5
40°	1688.9	1447.3	1374.1	1474.0	1716.4
42.5°	1935.2	1633.9	1448.1	1647.5	1977.6
45°	2164.6	1860.3	1684.3	1876.0	2195.5
47.5°	2407.1	2068.1	2002.1	2087.6	2429.9
50°	2693.6	2349.5	2303.4	2371.5	2703.3
52.5°	3031.7	2726.2	2589.9	2738.9	3035.1
55°	3433.3	3042.3	3011.8	3077.0	3438.4
57.5°	3826.0	3451.9	3647.4	3455.7	3757.9
60°	4106.2	3829.4	4170.1	3732.1	3955.1
62.5°	4124.0	4109.1	4820.9	3944.1	3912.8
65°	3739.7	3996.2	5366.0	3867.1	3551.8
67.5°	2943.7	3357.1	5448.5	3292.0	2853.5
70°	1849.7	2324.6	4816.7	2413.9	1902.2
72.5°	853.1	1252.6	3627.1	1410.1	901.8
75°	305.5	479.5	2237.8	515.0	319.5
77.5°	173.5	194.2	989.0	195.1	179.4
80°	111.7	121.0	285.7	127.8	108.8
82.5°	63.5	84.6	125.3	89.7	58.4
85°	34.3	53.7	55.4	55.0	34.3
87.5°	12.3	21.2	12.3	24.1	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)