

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: P597003

Luminaire Tested: **MSA-SA3A-835-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597003
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-SA3A-835-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10416 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

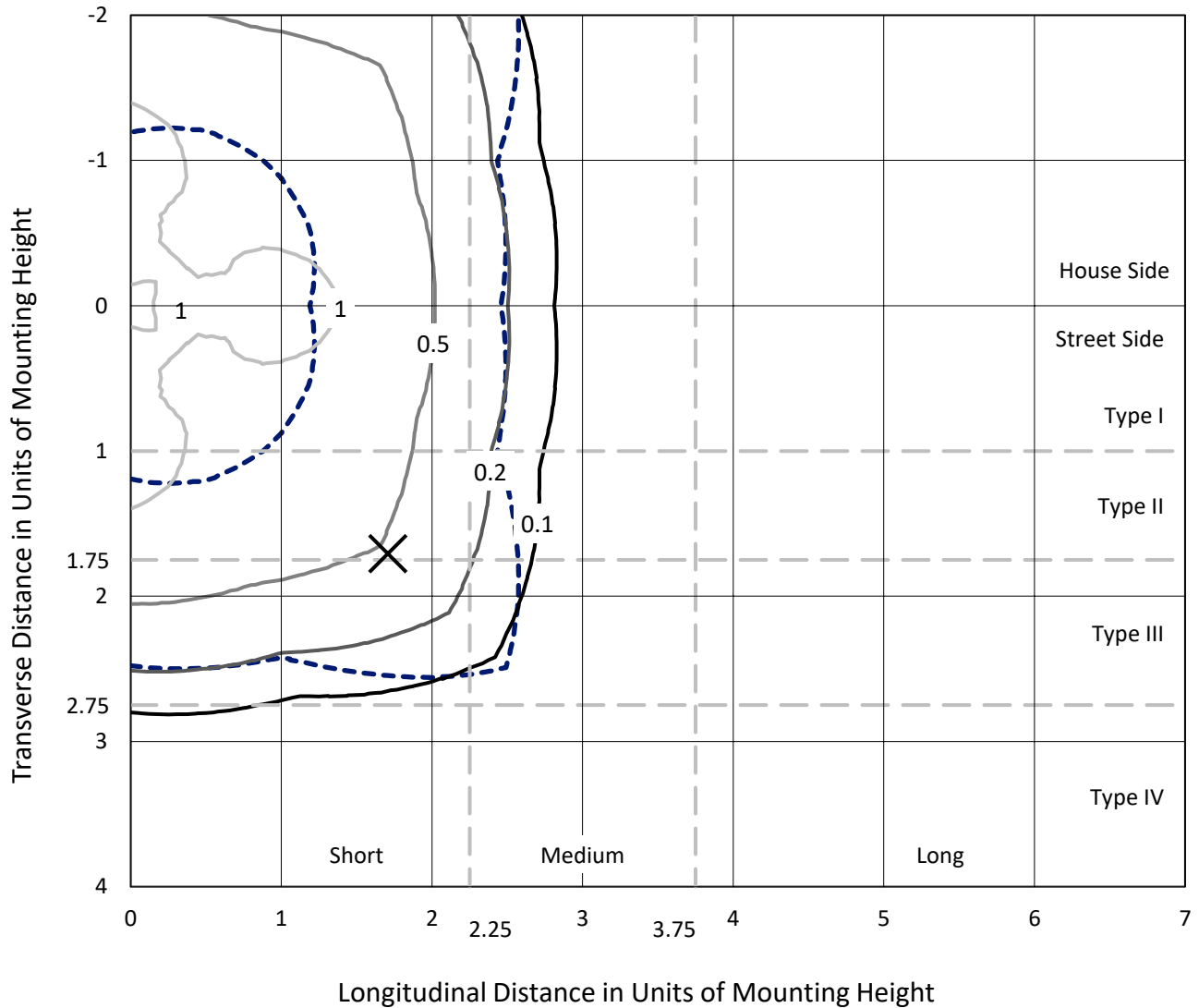
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

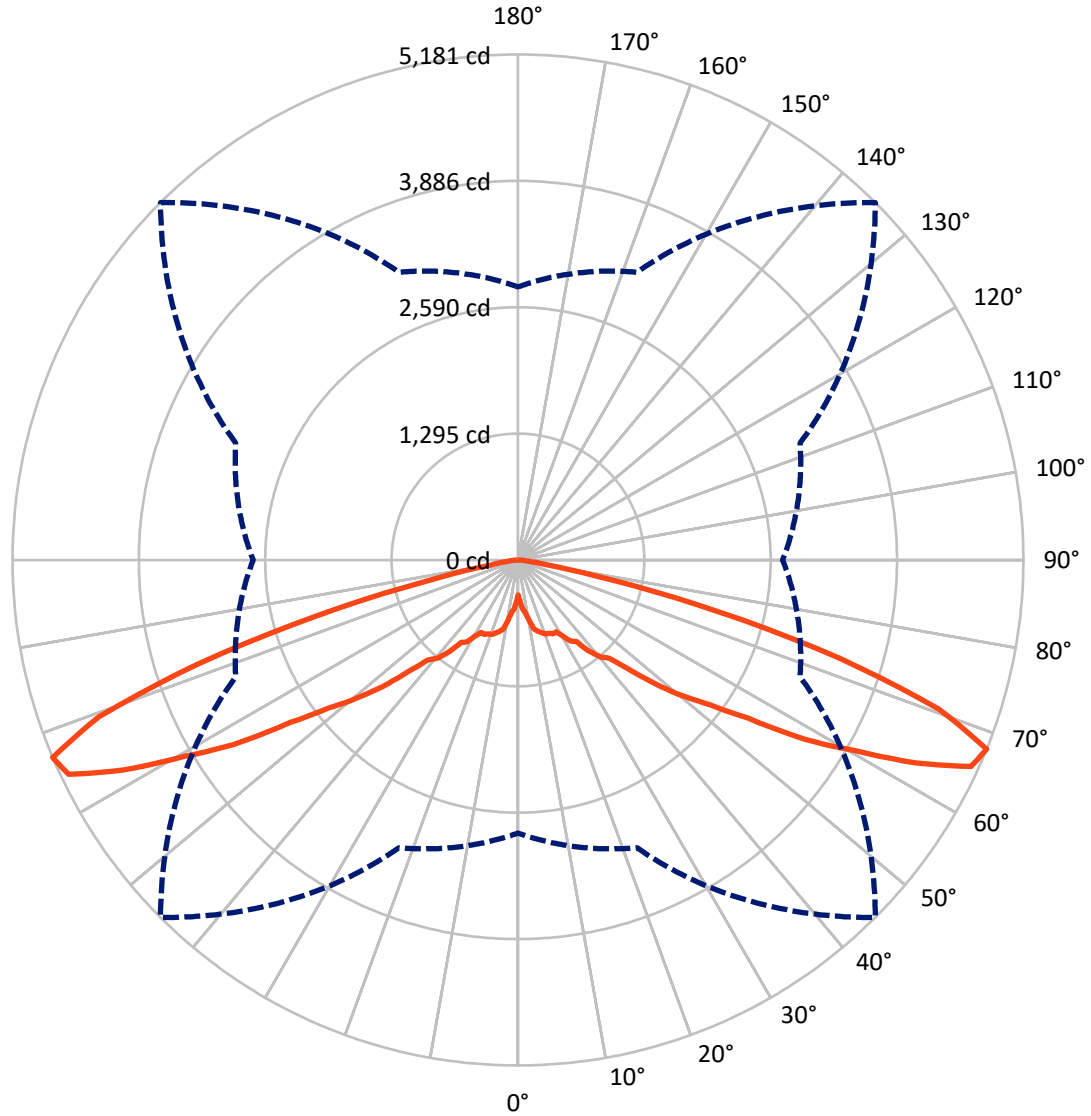
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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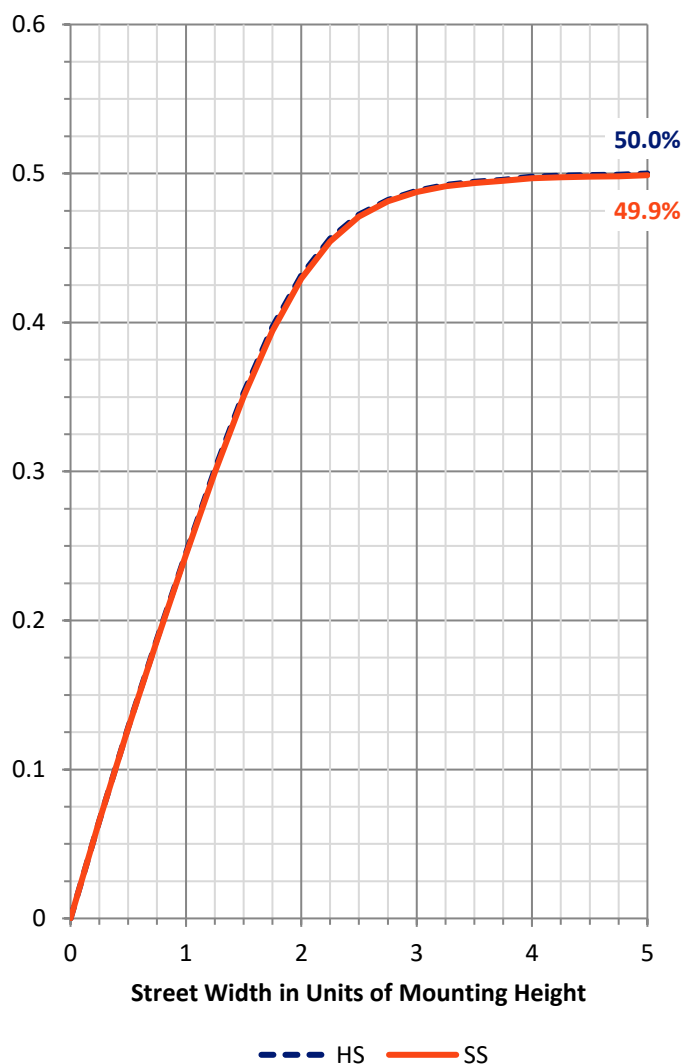
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5208.0	0.0	5208.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5208.0	0.0	5208.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10416.0	0.0	10416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	0.5
10°-20°	210.5	2.0
20°-30°	401.5	3.9
30°-40°	734.1	7.0
40°-50°	1423.5	13.7
50°-60°	2718.3	26.1
60°-70°	3672.7	35.3
70°-80°	1140.6	11.0
80°-90°	61.4	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°	10416.0	100.0
0°-180°	10416.0	100.0

Coefficient of Utilization

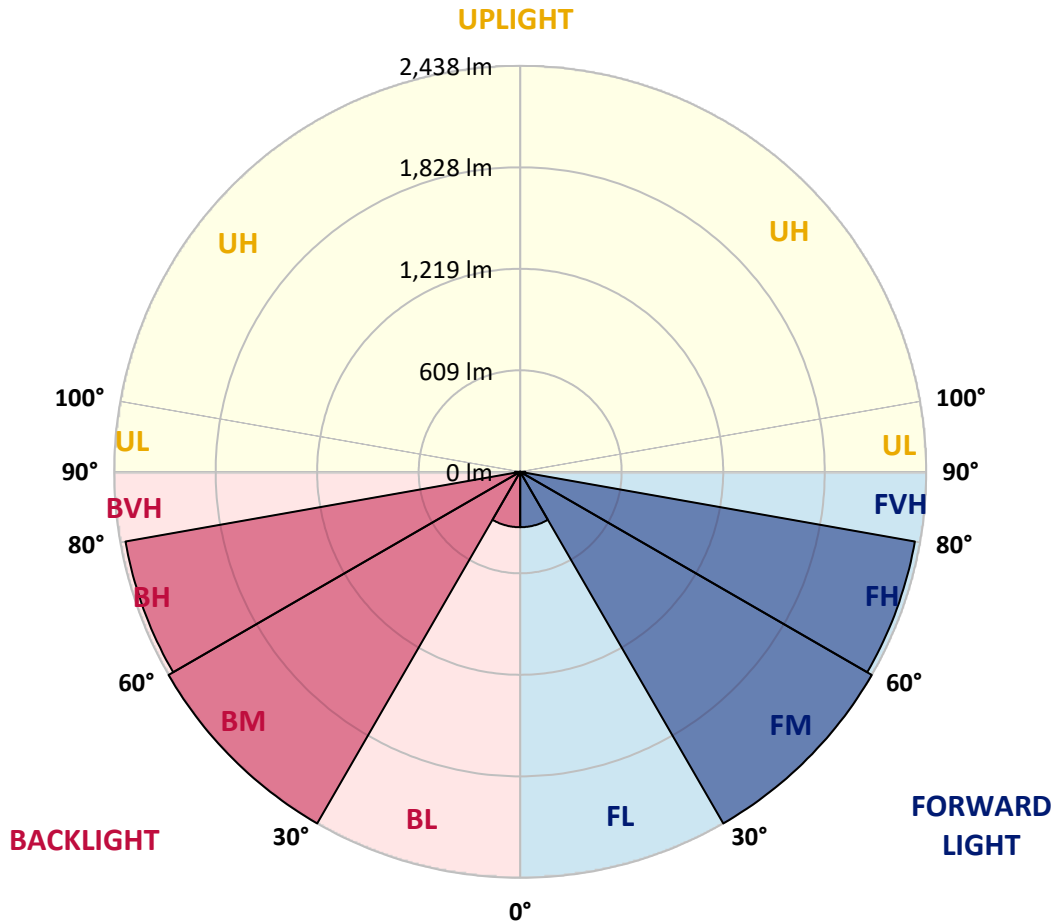


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.6	3.2			
FM (30°-60°)	2438.0	23.4			
FH (60°-80°)	2406.7	23.1			G2/5000
FVH (80°-90°)	30.7	0.3			G1/100
BL (0°-30°)	332.6	3.2	B1/500		
BM (30°-60°)	2438.0	23.4	B2/2500		
BH (60°-80°)	2406.7	23.1	B3/2500		G2/5000
BVH (80°-90°)	30.7	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°	356.9	356.9	356.9	356.9	356.9
2.5°	439.4	411.3	424.1	411.3	439.4
5°	558.5	529.2	503.4	521.9	560.1
7.5°	641.8	598.0	543.6	593.1	638.2
10°	655.9	631.4	629.0	628.6	654.3
12.5°	708.6	692.1	725.1	693.7	710.2
15°	749.7	740.4	755.3	752.1	751.3
17.5°	813.3	750.5	784.3	746.9	811.2
20°	841.4	752.5	809.2	748.1	841.0
22.5°	876.0	800.0	816.9	802.0	872.8
25°	895.7	830.6	836.6	831.4	896.1
27.5°	976.6	898.2	833.8	909.0	991.5
30°	1038.2	942.0	899.8	943.2	1045.8
32.5°	1127.1	1007.6	991.1	1023.7	1141.2
35°	1237.4	1117.9	1025.3	1118.3	1260.7
37.5°	1453.5	1218.1	1185.5	1253.5	1469.6
40°	1606.0	1376.2	1306.6	1401.6	1632.1
42.5°	1840.2	1553.7	1377.0	1566.6	1880.4
45°	2058.3	1769.0	1601.6	1783.8	2087.7
47.5°	2288.9	1966.5	1903.8	1985.0	2310.6
50°	2561.3	2234.1	2190.3	2255.1	2570.5
52.5°	2882.8	2592.3	2462.7	2604.3	2886.0
55°	3264.7	2892.9	2863.9	2925.9	3269.5
57.5°	3638.1	3282.4	3468.3	3286.0	3573.3
60°	3904.5	3641.3	3965.3	3548.8	3760.8
62.5°	3921.4	3907.3	4584.2	3750.4	3720.6
65°	3556.0	3799.9	5102.5	3677.1	3377.4
67.5°	2799.1	3192.3	5180.9	3130.3	2713.4
70°	1758.9	2210.4	4580.1	2295.3	1808.8
72.5°	811.2	1191.1	3449.0	1340.8	857.5
75°	290.5	455.9	2127.9	489.7	303.8
77.5°	165.0	184.7	940.4	185.5	170.6
80°	106.2	115.1	271.6	121.5	103.4
82.5°	60.4	80.5	119.1	85.3	55.5
85°	32.6	51.1	52.7	52.3	32.6
87.5°	11.7	20.1	11.7	22.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)