

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: P596915

Luminaire Tested: **MSA-SA2A-835-U-5MQ**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P596915  
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-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: 7058 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

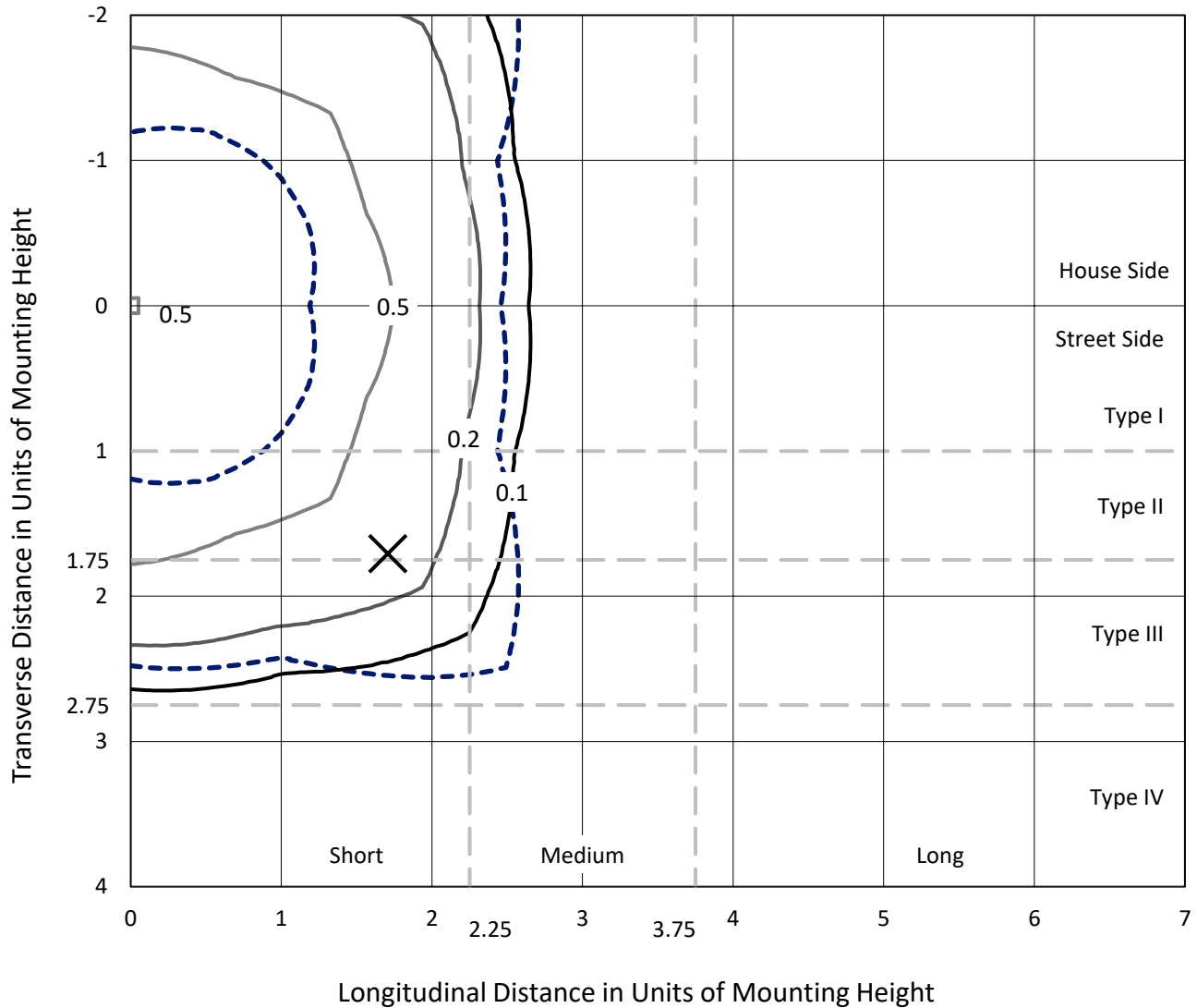
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

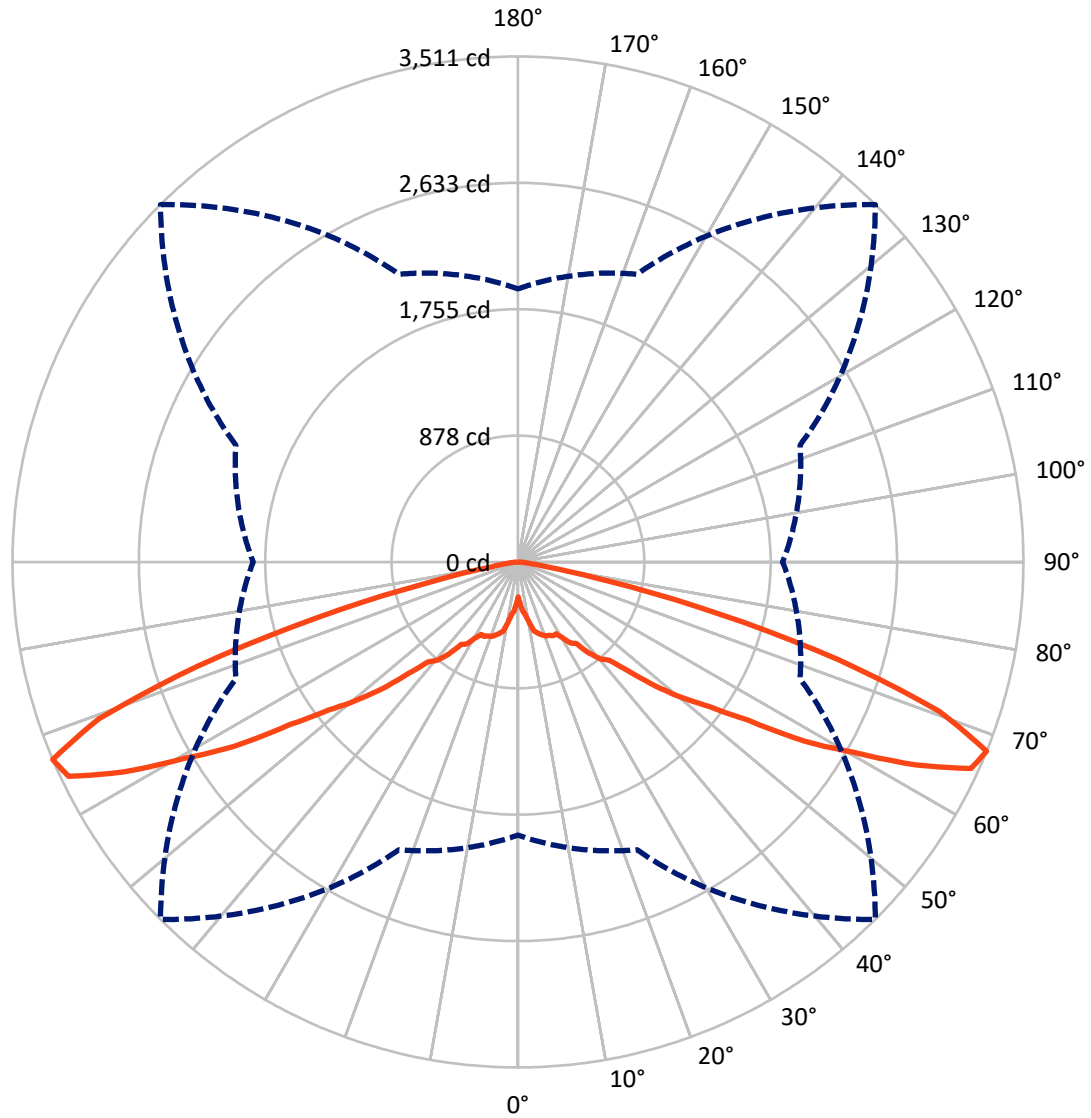
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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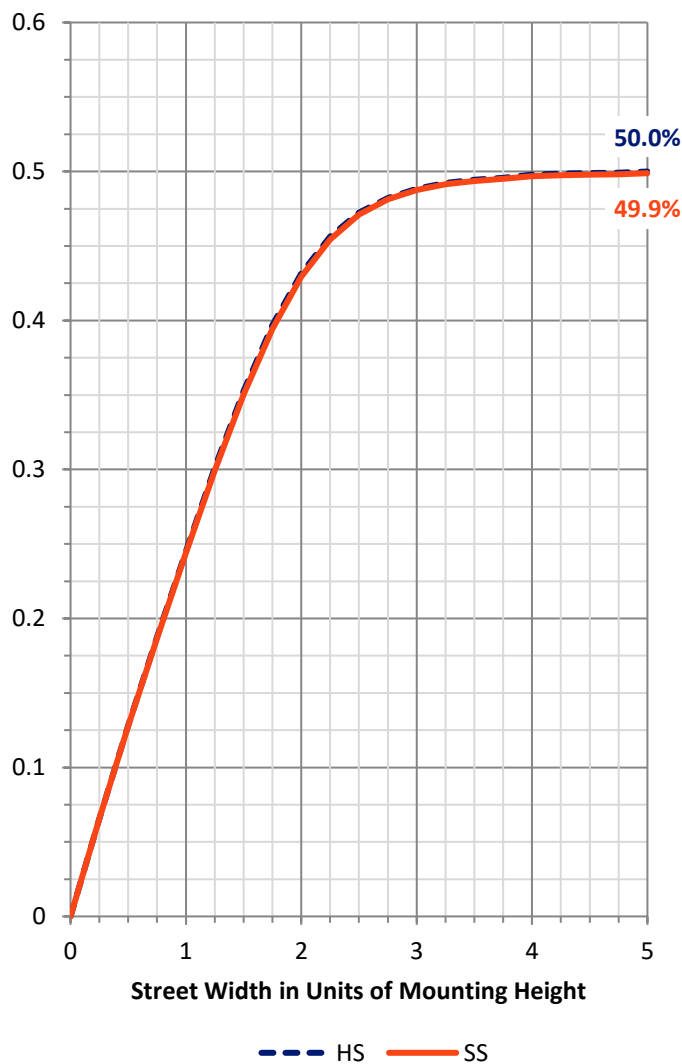
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3529.0	0.0	3529.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3529.0	0.0	3529.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7058.0	0.0	7058.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.1	0.5
10°-20°	142.6	2.0
20°-30°	272.1	3.9
30°-40°	497.5	7.0
40°-50°	964.6	13.7
50°-60°	1842.0	26.1
60°-70°	2488.7	35.3
70°-80°	772.9	11.0
80°-90°	41.6	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°	7058.0	100.0
0°-180°	7058.0	100.0

**Coefficient of Utilization**

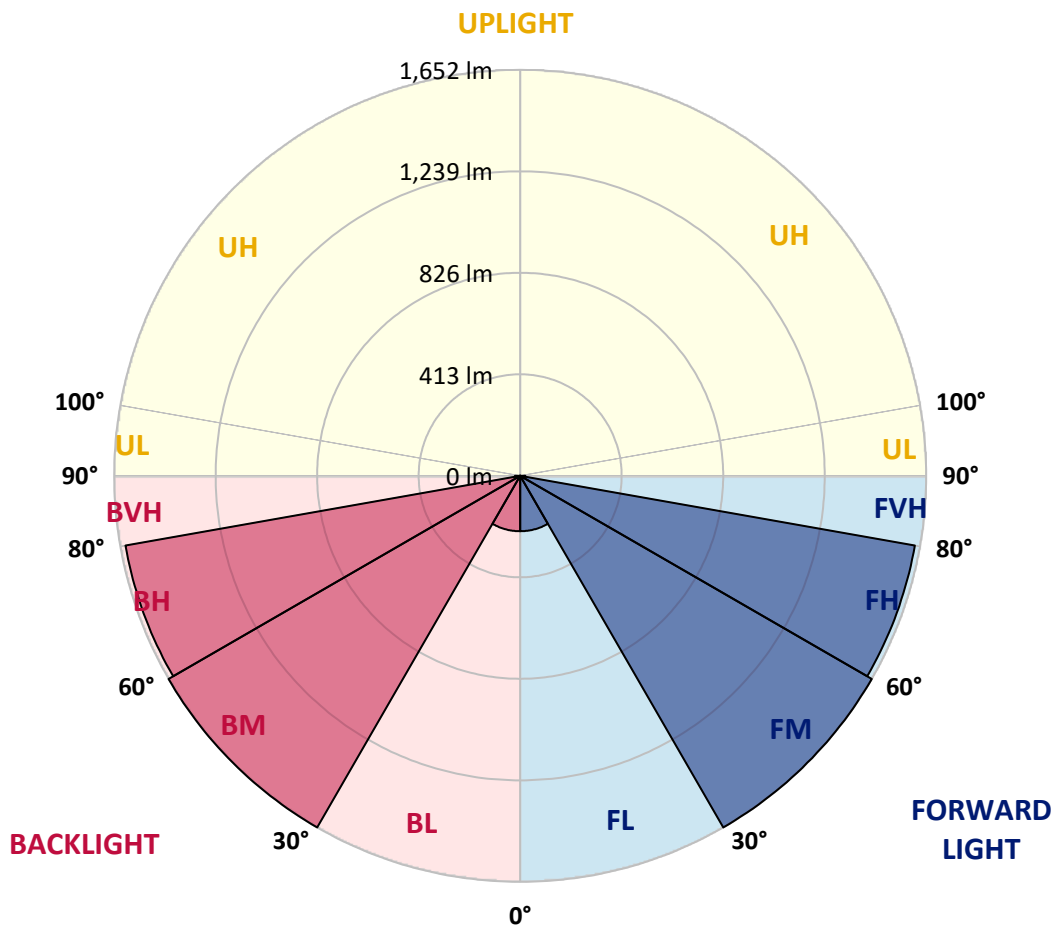


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.4	3.2			
FM (30°-60°)	1652.0	23.4			
FH (60°-80°)	1630.8	23.1			G1/1800
FVH (80°-90°)	20.8	0.3			G1/100
BL (0°-30°)	225.4	3.2	B1/500		
BM (30°-60°)	1652.0	23.4	B2/2500		
BH (60°-80°)	1630.8	23.1	B3/2500		G1/1800
BVH (80°-90°)	20.8	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°	241.9	241.9	241.9	241.9	241.9
2.5°	297.8	278.7	287.4	278.7	297.8
5°	378.5	358.6	341.1	353.7	379.6
7.5°	434.9	405.2	368.4	401.9	432.5
10°	444.5	427.8	426.2	425.9	443.4
12.5°	480.2	469.0	491.4	470.1	481.3
15°	508.0	501.7	511.8	509.6	509.1
17.5°	551.1	508.5	531.4	506.1	549.7
20°	570.2	509.9	548.3	506.9	569.9
22.5°	593.6	542.1	553.5	543.4	591.4
25°	607.0	562.8	566.9	563.3	607.2
27.5°	661.8	608.6	565.0	616.0	671.9
30°	703.5	638.3	609.7	639.1	708.7
32.5°	763.8	682.8	671.6	693.7	773.3
35°	838.5	757.5	694.8	757.8	854.3
37.5°	984.9	825.4	803.3	849.4	995.8
40°	1088.2	932.5	885.4	949.7	1106.0
42.5°	1246.9	1052.8	933.1	1061.5	1274.2
45°	1394.7	1198.7	1085.2	1208.8	1414.6
47.5°	1551.0	1332.5	1290.0	1345.1	1565.7
50°	1735.6	1513.9	1484.2	1528.1	1741.8
52.5°	1953.4	1756.6	1668.8	1764.7	1955.6
55°	2212.2	1960.2	1940.6	1982.6	2215.5
57.5°	2465.2	2224.2	2350.2	2226.6	2421.3
60°	2645.7	2467.4	2686.9	2404.7	2548.4
62.5°	2657.2	2647.6	3106.3	2541.3	2521.1
65°	2409.6	2574.8	3457.5	2491.7	2288.5
67.5°	1896.7	2163.1	3510.7	2121.1	1838.6
70°	1191.9	1497.8	3103.6	1555.3	1225.7
72.5°	549.7	807.1	2337.1	908.5	581.1
75°	196.9	308.9	1441.9	331.8	205.9
77.5°	111.8	125.2	637.2	125.7	115.6
80°	72.0	78.0	184.1	82.3	70.1
82.5°	40.9	54.5	80.7	57.8	37.6
85°	22.1	34.6	35.7	35.4	22.1
87.5°	7.9	13.6	7.9	15.5	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)