

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: P596981

Luminaire Tested: **MSA-SA2D-835-U-5MQ**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P596981  
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-SA2D-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: 11976 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

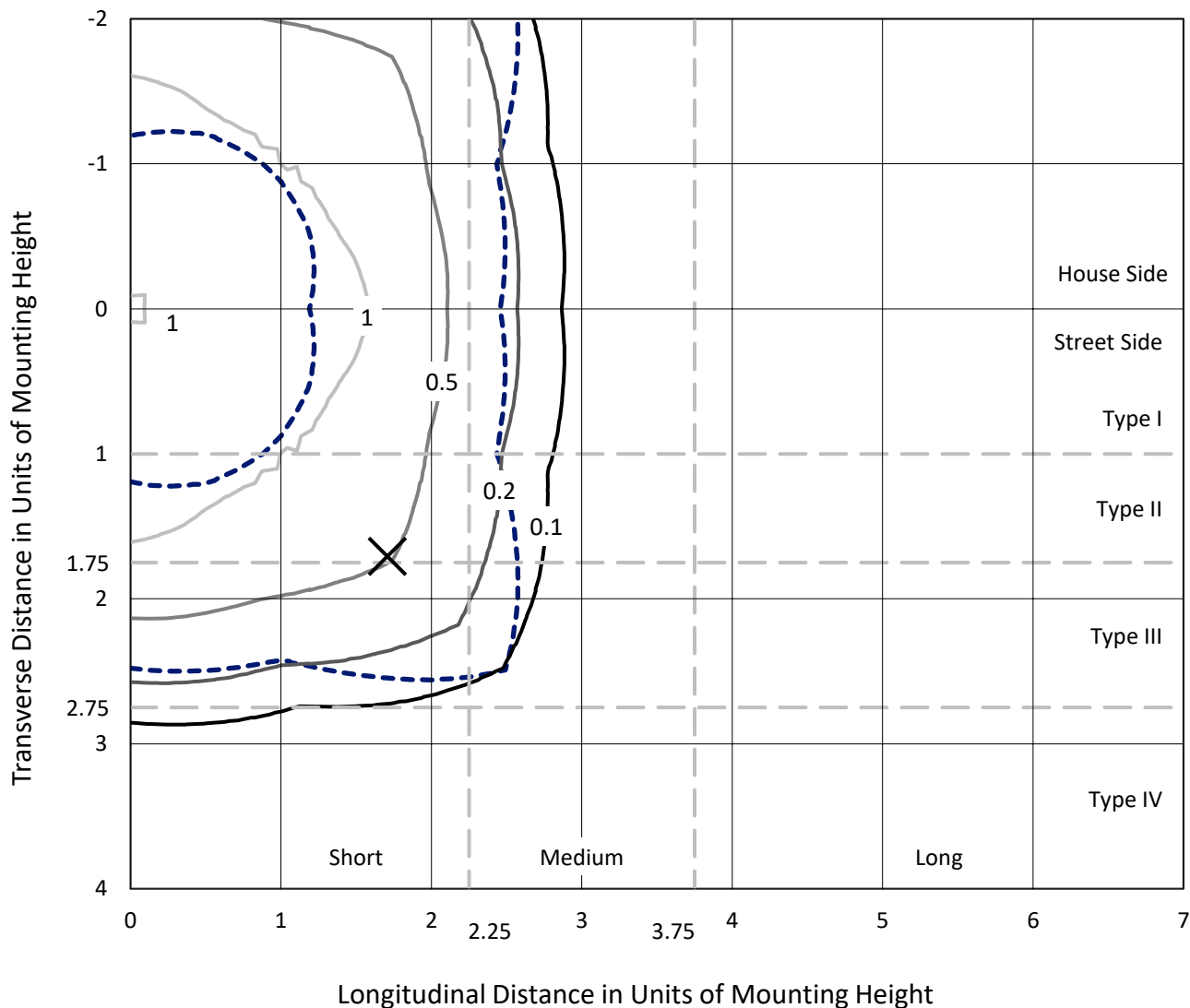
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

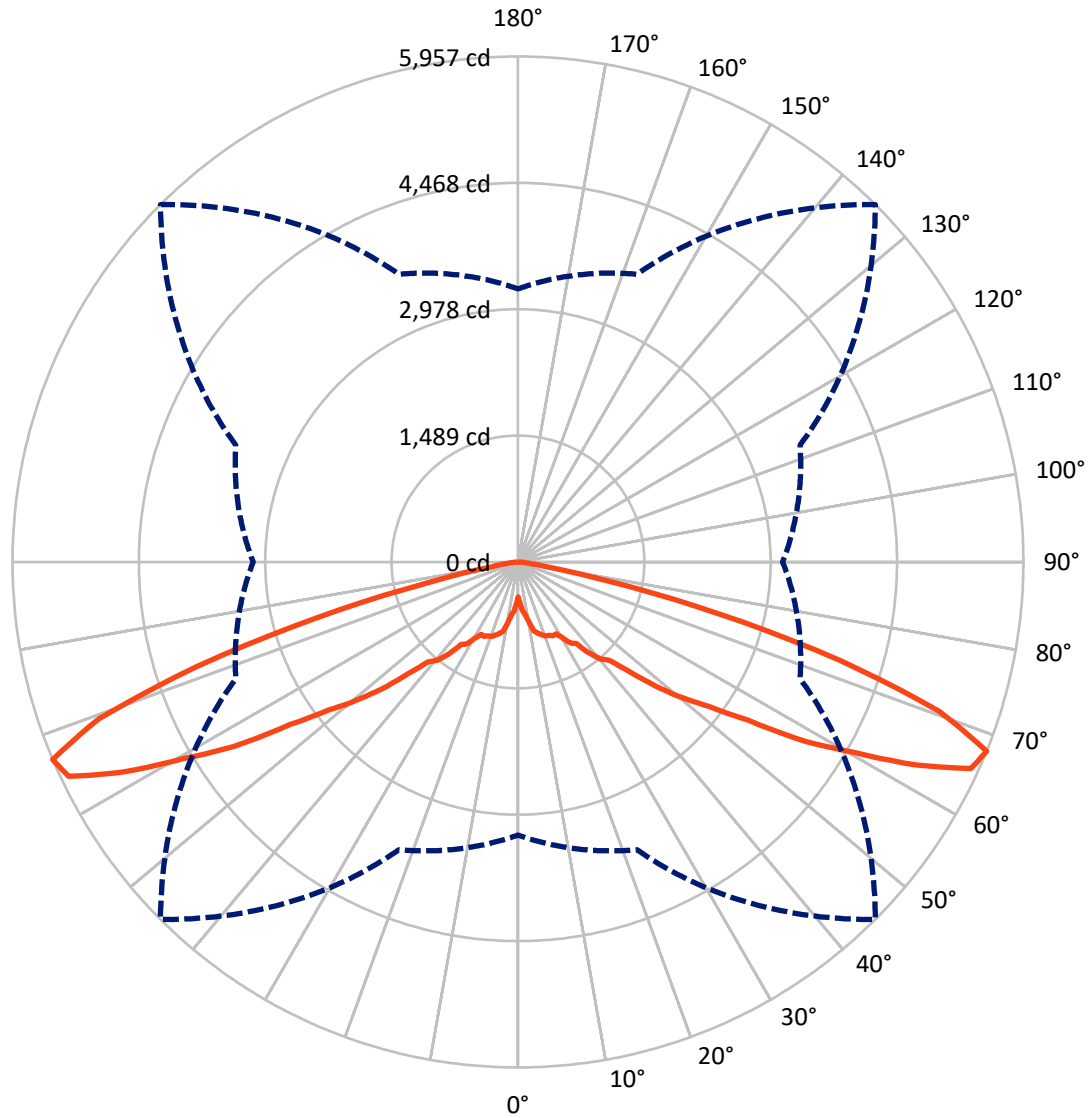
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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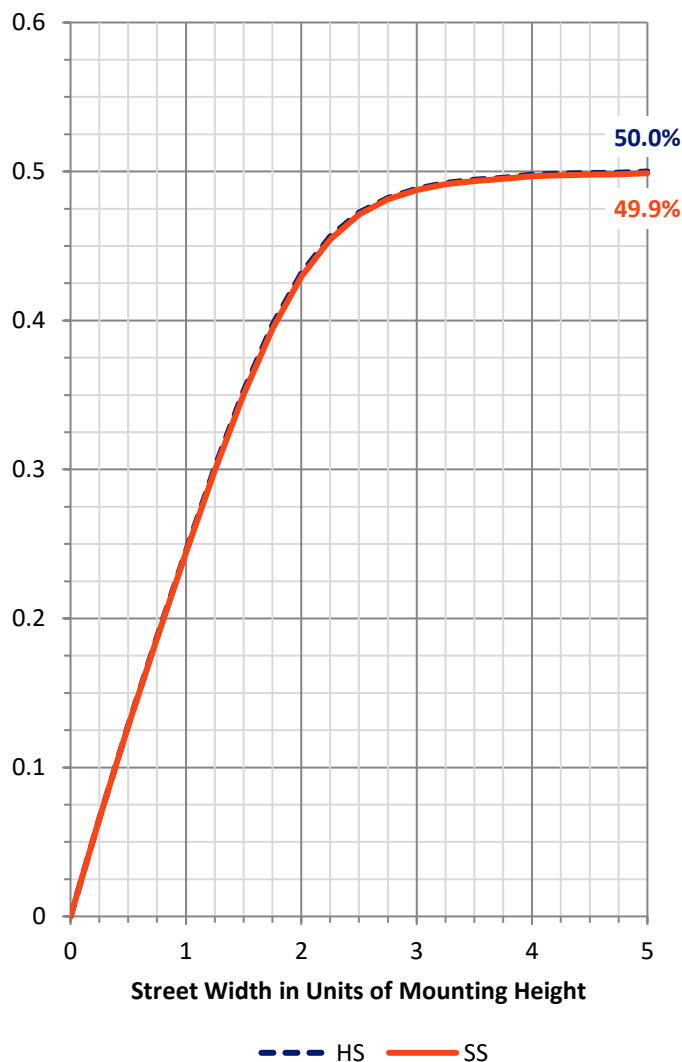
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5988.0	0.0	5988.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5988.0	0.0	5988.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11976.0	0.0	11976.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	0.5
10°-20°	242.0	2.0
20°-30°	461.7	3.9
30°-40°	844.1	7.0
40°-50°	1636.7	13.7
50°-60°	3125.5	26.1
60°-70°	4222.8	35.3
70°-80°	1311.5	11.0
80°-90°	70.7	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°	11976.0	100.0
0°-180°	11976.0	100.0

**Coefficient of Utilization**



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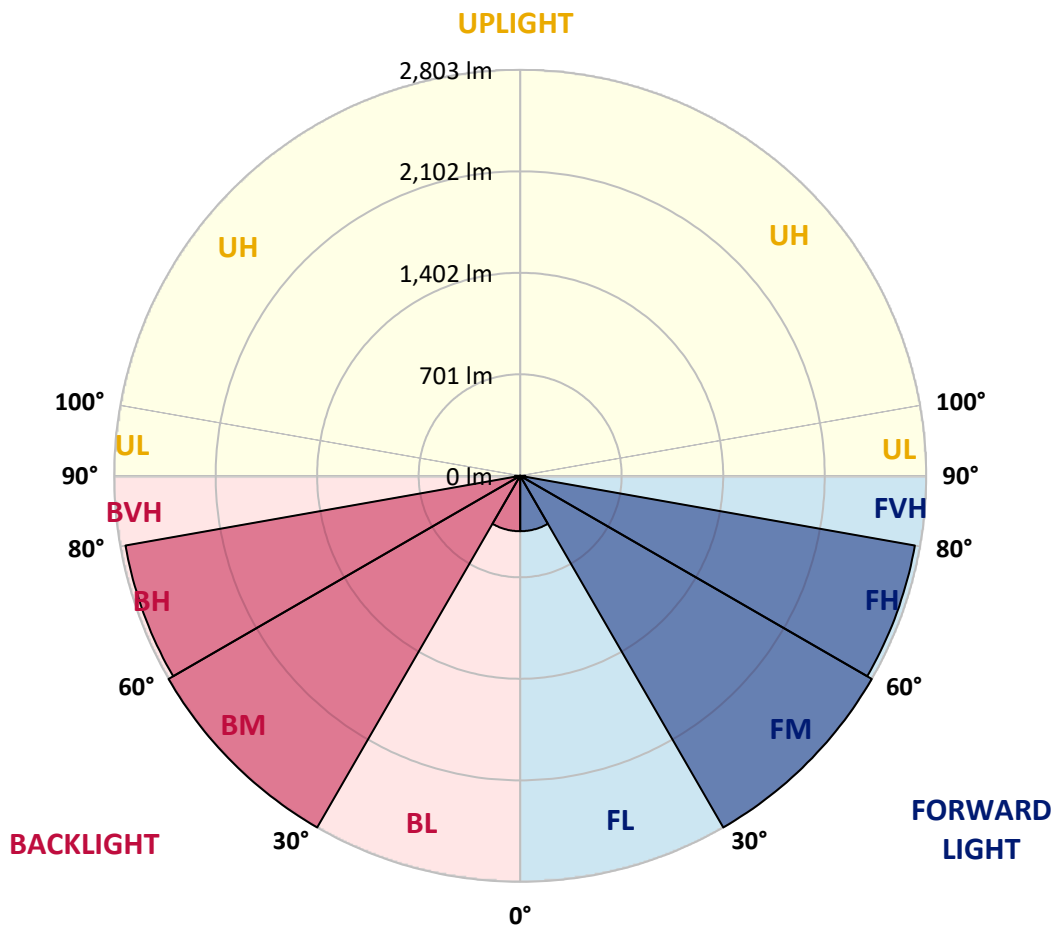
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.4	3.2			
FM (30°-60°)	2803.1	23.4			
FH (60°-80°)	2767.1	23.1			G2/5000
FVH (80°-90°)	35.3	0.3			G1/100
BL (0°-30°)	382.4	3.2	B1/500		
BM (30°-60°)	2803.1	23.4	B3/5000		
BH (60°-80°)	2767.1	23.1	B4/5000		G2/5000
BVH (80°-90°)	35.3	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°	410.4	410.4	410.4	410.4	410.4
2.5°	505.2	472.8	487.7	472.8	505.2
5°	642.2	608.4	578.8	600.1	644.0
7.5°	738.0	687.5	625.1	682.0	733.8
10°	754.2	725.9	723.2	722.7	752.3
12.5°	814.8	795.8	833.7	797.6	816.6
15°	862.0	851.3	868.4	864.7	863.8
17.5°	935.1	862.9	901.7	858.7	932.7
20°	967.4	865.2	930.4	860.1	967.0
22.5°	1007.2	919.8	939.2	922.1	1003.5
25°	1029.9	955.0	961.9	955.9	1030.4
27.5°	1122.9	1032.7	958.7	1045.2	1140.0
30°	1193.7	1083.1	1034.5	1084.5	1202.5
32.5°	1295.9	1158.5	1139.6	1177.0	1312.1
35°	1422.7	1285.3	1178.9	1285.8	1449.5
37.5°	1671.2	1400.5	1363.0	1441.2	1689.7
40°	1846.5	1582.3	1502.3	1611.5	1876.6
42.5°	2115.8	1786.4	1583.3	1801.2	2162.1
45°	2366.6	2033.9	1841.4	2051.0	2400.3
47.5°	2631.7	2261.1	2188.9	2282.3	2656.6
50°	2944.9	2568.7	2518.3	2592.8	2955.5
52.5°	3314.6	2980.5	2831.5	2994.4	3318.3
55°	3753.6	3326.1	3292.8	3364.1	3759.2
57.5°	4183.0	3774.0	3987.7	3778.2	4108.5
60°	4489.3	4186.7	4559.1	4080.3	4324.1
62.5°	4508.7	4492.5	5270.7	4312.1	4277.8
65°	4088.6	4369.0	5866.7	4227.9	3883.2
67.5°	3218.3	3670.4	5956.9	3599.1	3119.8
70°	2022.3	2541.4	5266.1	2639.1	2079.7
72.5°	932.7	1369.5	3965.5	1541.6	985.9
75°	334.0	524.2	2446.6	563.1	349.3
77.5°	189.7	212.4	1081.3	213.3	196.2
80°	122.1	132.3	312.3	139.7	118.9
82.5°	69.4	92.5	137.0	98.1	63.8
85°	37.5	58.8	60.6	60.1	37.5
87.5°	13.4	23.1	13.4	26.4	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)