

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: P596587

Luminaire Tested: **MSA-SA2B-827-U-5WQ**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P596587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: MSA-SA2B-827-U-5WQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7855 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

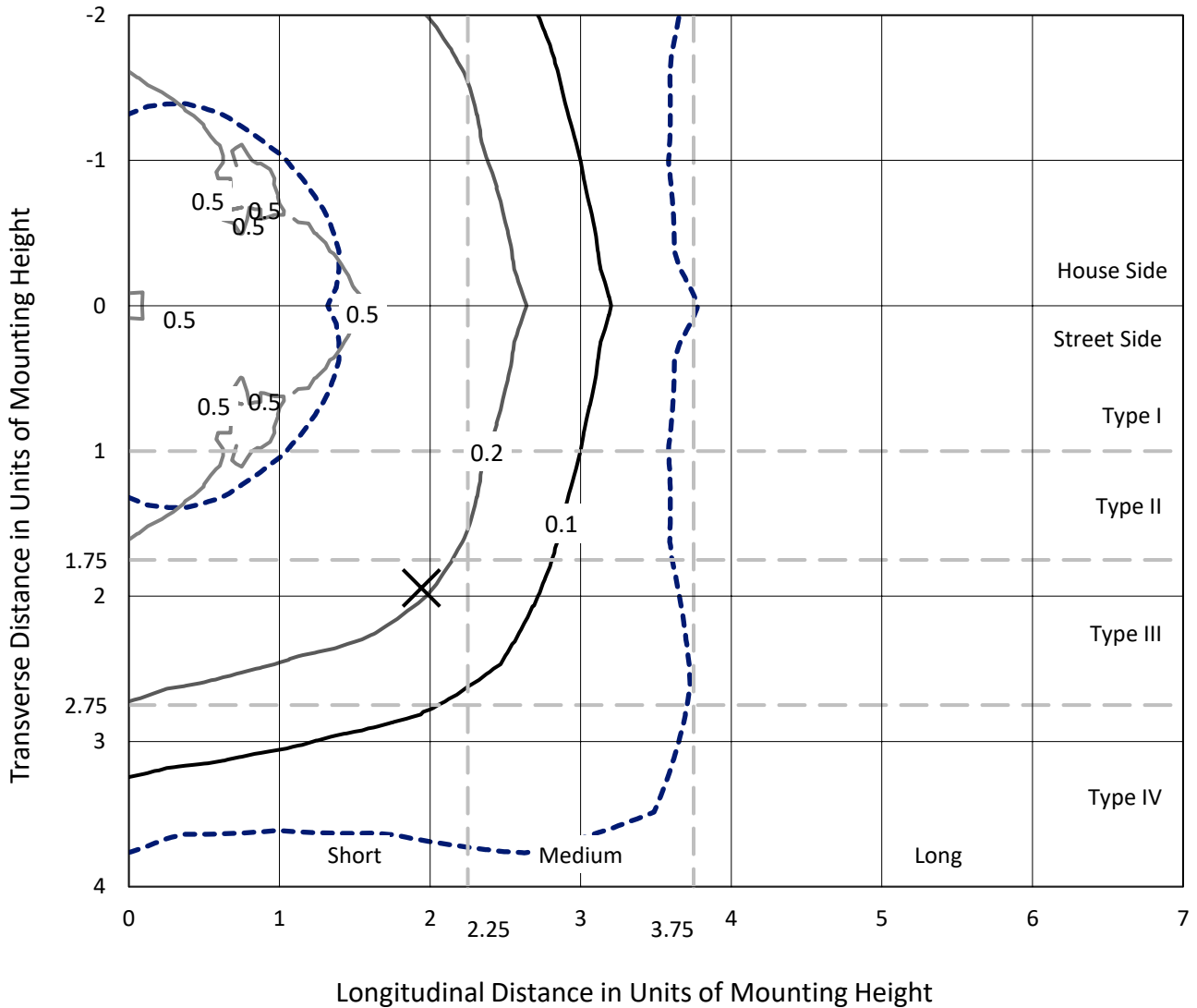
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

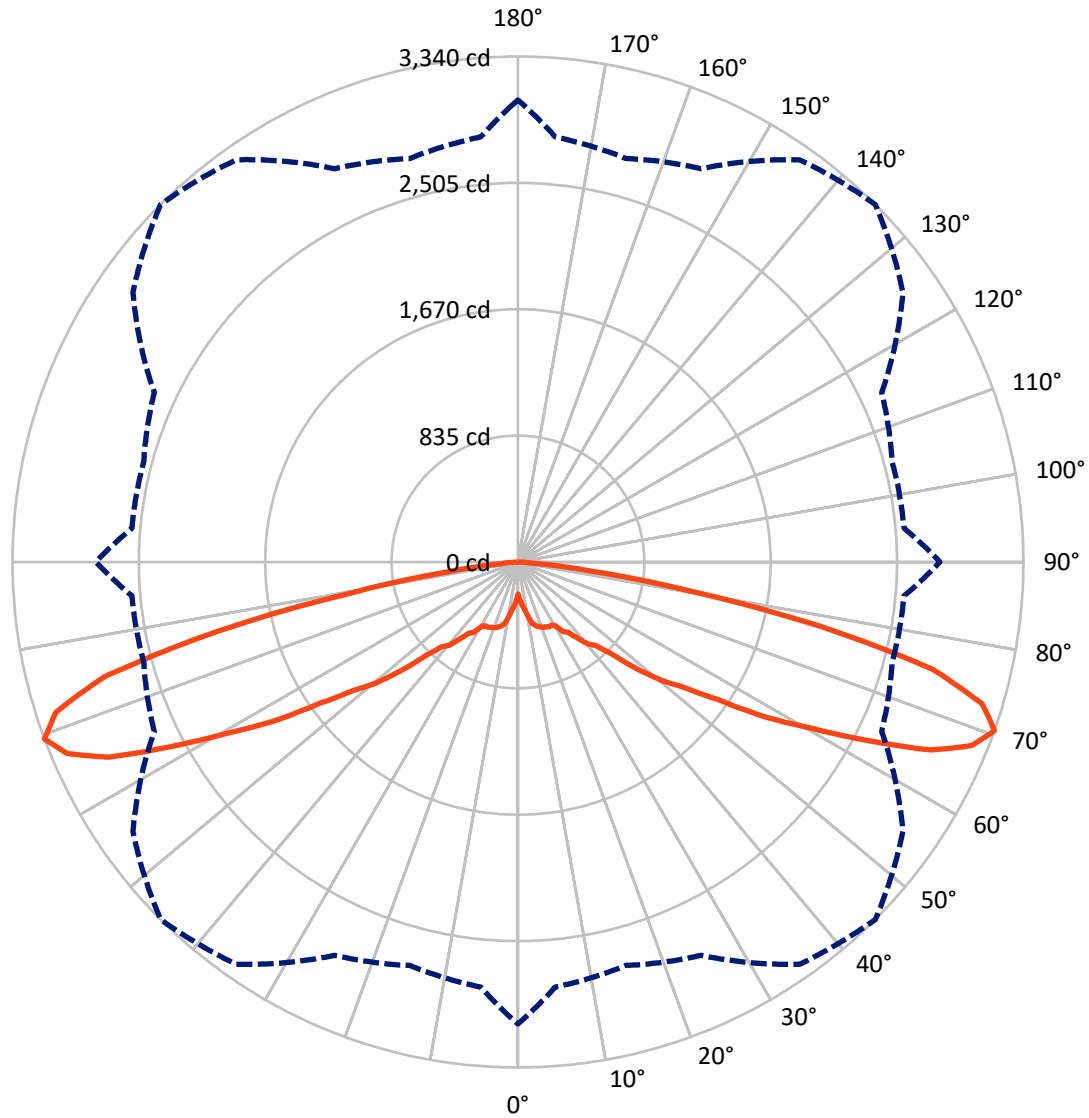
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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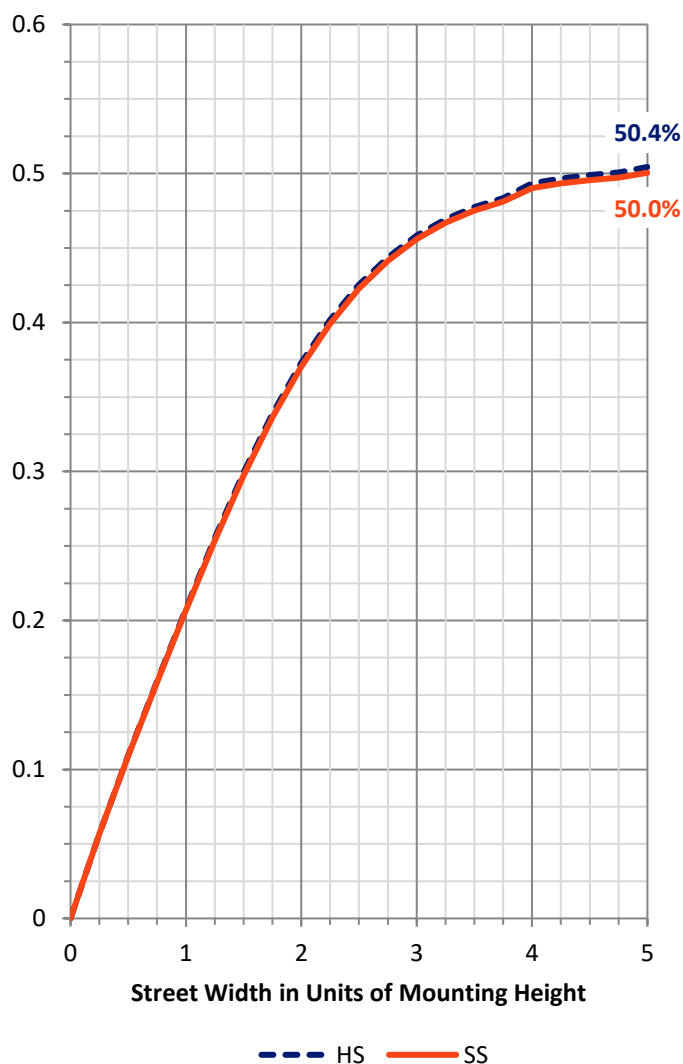
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3927.5	0.0	3927.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3927.5	0.0	3927.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7855.0	0.0	7855.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.9	0.4
10°-20°	123.6	1.6
20°-30°	233.8	3.0
30°-40°	407.2	5.2
40°-50°	778.4	9.9
50°-60°	1509.4	19.2
60°-70°	2643.1	33.6
70°-80°	1986.4	25.3
80°-90°	142.1	1.8
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°	7855.0	100.0
0°-180°	7855.0	100.0

**Coefficient of Utilization**



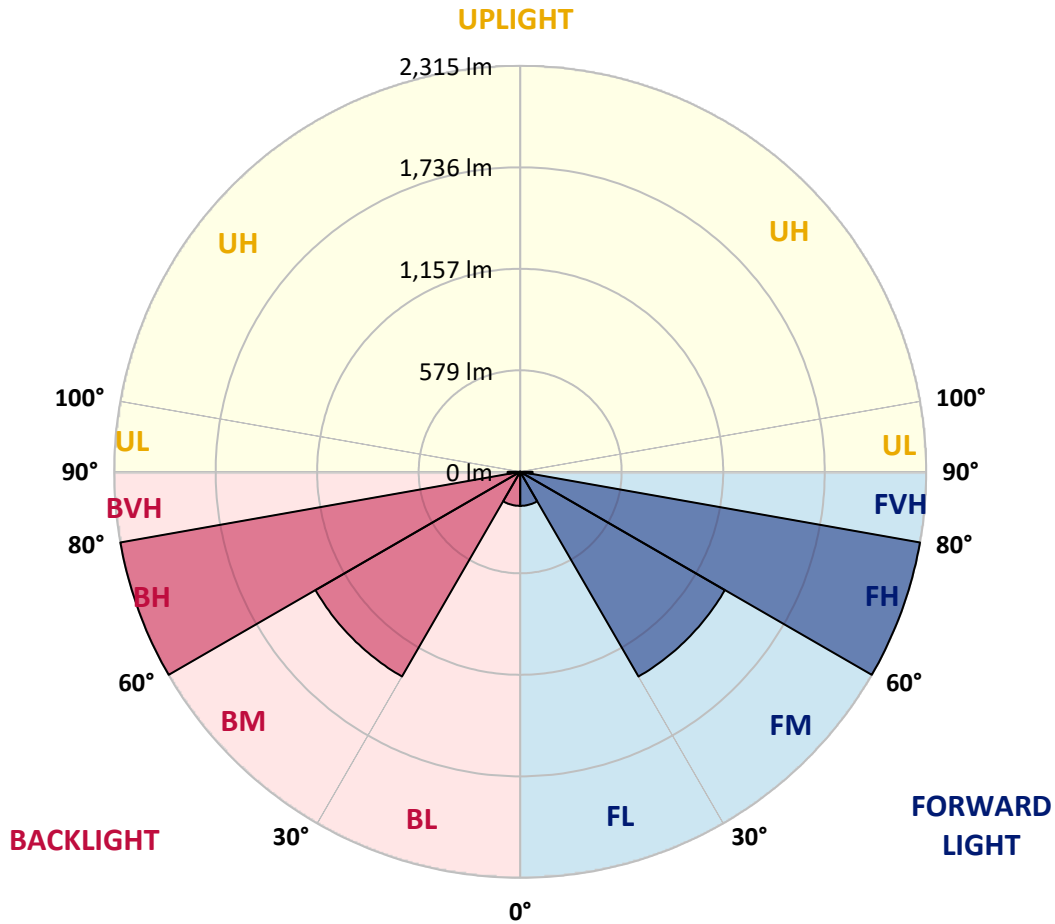
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.2	2.5			
FM (30°-60°)	1347.5	17.2			
FH (60°-80°)	2314.8	29.5			G2/5000
FVH (80°-90°)	71.1	0.9			G1/100
BL (0°-30°)	194.2	2.5	B1/500		
BM (30°-60°)	1347.5	17.2	B2/2500		
BH (60°-80°)	2314.8	29.5	B3/2500		G2/5000
BVH (80°-90°)	71.1	0.9			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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4
2.5°	258.4	254.4	242.0	242.6	248.4	249.0	249.6	242.0	240.1	255.7	256.6
5°	328.2	319.0	309.9	306.2	300.8	285.5	302.3	304.1	307.8	319.7	325.1
7.5°	374.8	363.5	351.0	343.4	328.5	316.0	329.7	341.0	348.3	361.7	369.3
10°	383.6	376.9	376.3	362.9	360.2	364.8	363.8	364.1	375.1	375.4	380.0
12.5°	411.4	416.3	406.8	402.2	405.0	416.3	407.1	403.2	405.9	418.4	413.2
15°	447.6	453.4	439.1	431.8	424.5	435.1	425.7	432.7	441.5	450.7	446.1
17.5°	487.9	488.2	468.7	441.5	447.9	449.5	446.1	440.3	465.6	487.6	485.4
20°	509.8	509.5	476.0	439.1	458.0	461.4	458.3	438.5	476.6	506.8	505.8
22.5°	532.4	525.7	485.4	455.6	462.6	465.3	458.3	456.5	485.4	527.5	527.2
25°	544.5	550.3	506.1	487.6	481.8	475.4	481.5	484.5	512.2	553.4	541.5
27.5°	582.6	573.2	512.2	510.4	498.2	472.9	494.0	508.9	510.4	576.8	589.0
30°	617.1	620.7	539.7	542.4	520.2	488.2	520.8	544.5	549.1	621.3	620.1
32.5°	653.6	655.2	588.4	560.1	550.6	549.4	536.9	557.6	593.6	651.5	653.9
35°	709.1	721.6	632.0	593.9	582.0	569.8	580.8	599.4	632.9	719.8	713.7
37.5°	836.2	816.4	726.8	647.8	639.9	635.0	643.9	657.3	725.9	818.5	846.8
40°	924.8	915.4	793.5	737.1	687.2	713.4	692.6	744.4	801.1	916.0	934.3
42.5°	1062.3	1020.2	895.0	825.2	773.4	754.8	766.4	834.0	906.3	1034.2	1070.2
45°	1194.2	1129.3	1022.0	960.5	881.9	862.4	877.9	957.4	1040.9	1142.1	1205.5
47.5°	1328.9	1261.9	1143.9	1055.0	990.7	1048.9	998.0	1073.5	1156.7	1274.4	1330.7
50°	1468.8	1394.4	1278.0	1181.1	1175.6	1227.1	1166.2	1204.9	1282.0	1403.9	1470.3
52.5°	1629.4	1549.2	1432.8	1367.3	1380.1	1376.7	1364.6	1357.6	1433.4	1553.2	1632.1
55°	1820.4	1733.9	1640.9	1610.8	1646.1	1608.0	1626.0	1623.6	1634.5	1720.2	1812.5
57.5°	2051.4	1953.6	1860.3	1853.6	1899.0	1935.0	1903.0	1857.0	1837.8	1921.0	2026.7
60°	2342.4	2222.4	2120.0	2098.9	2228.5	2228.2	2199.2	2096.2	2088.9	2183.1	2310.4
62.5°	2663.9	2517.6	2405.8	2372.3	2575.2	2598.1	2507.9	2323.2	2361.0	2436.9	2588.0
65°	2936.9	2761.1	2656.9	2647.8	2895.8	2996.7	2797.4	2544.8	2556.9	2620.0	2783.7
67.5°	3114.9	2903.1	2820.2	2864.4	3172.8	3235.9	3050.6	2692.9	2649.6	2675.8	2871.4
70°	3052.4	2819.6	2759.9	2867.2	3244.4	3339.8	3105.2	2651.4	2559.4	2560.6	2787.9
72.5°	2579.2	2357.7	2386.0	2582.9	3075.0	3208.8	2852.8	2394.8	2206.5	2201.9	2408.2
75°	1705.5	1557.5	1669.3	1976.1	2556.3	2830.0	2363.8	1877.1	1640.9	1564.2	1723.5
77.5°	746.0	727.1	821.2	1168.0	1742.7	2039.5	1693.4	1226.2	892.5	742.3	810.9
80°	199.9	195.6	245.6	443.1	848.4	1123.2	916.3	489.1	255.4	185.9	197.2
82.5°	72.8	74.7	91.1	124.0	279.4	472.9	304.4	142.9	96.6	79.2	79.2
85°	31.7	30.8	44.2	49.7	76.2	107.0	87.5	60.6	48.8	36.6	35.0
87.5°	8.5	10.7	14.9	15.5	19.8	16.2	23.2	21.3	18.3	12.8	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)