

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: P597137

Luminaire Tested: **MSA-SA4C-835-U-5WQ**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P597137  
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-SA4C-835-U-5WQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21279 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

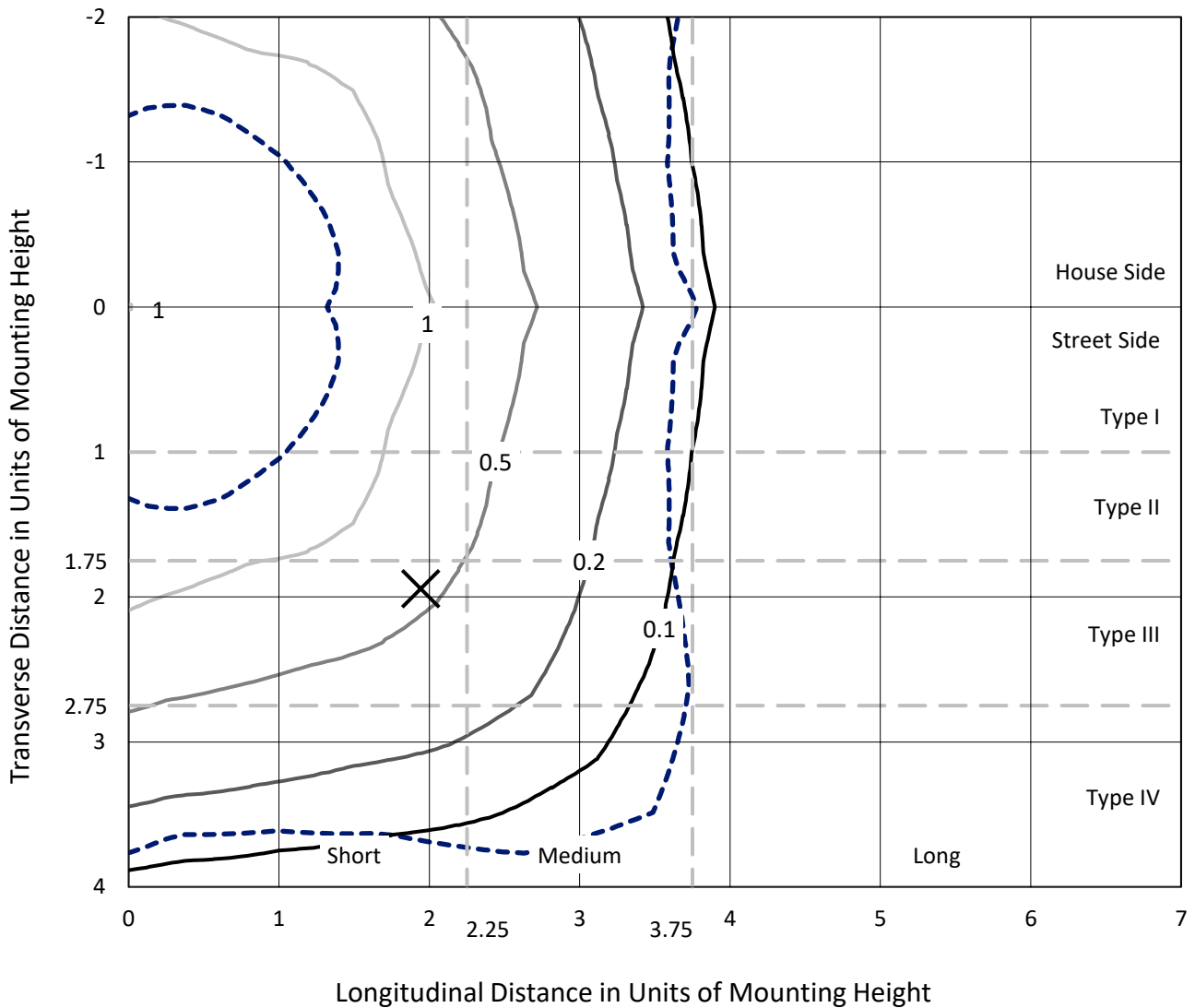
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

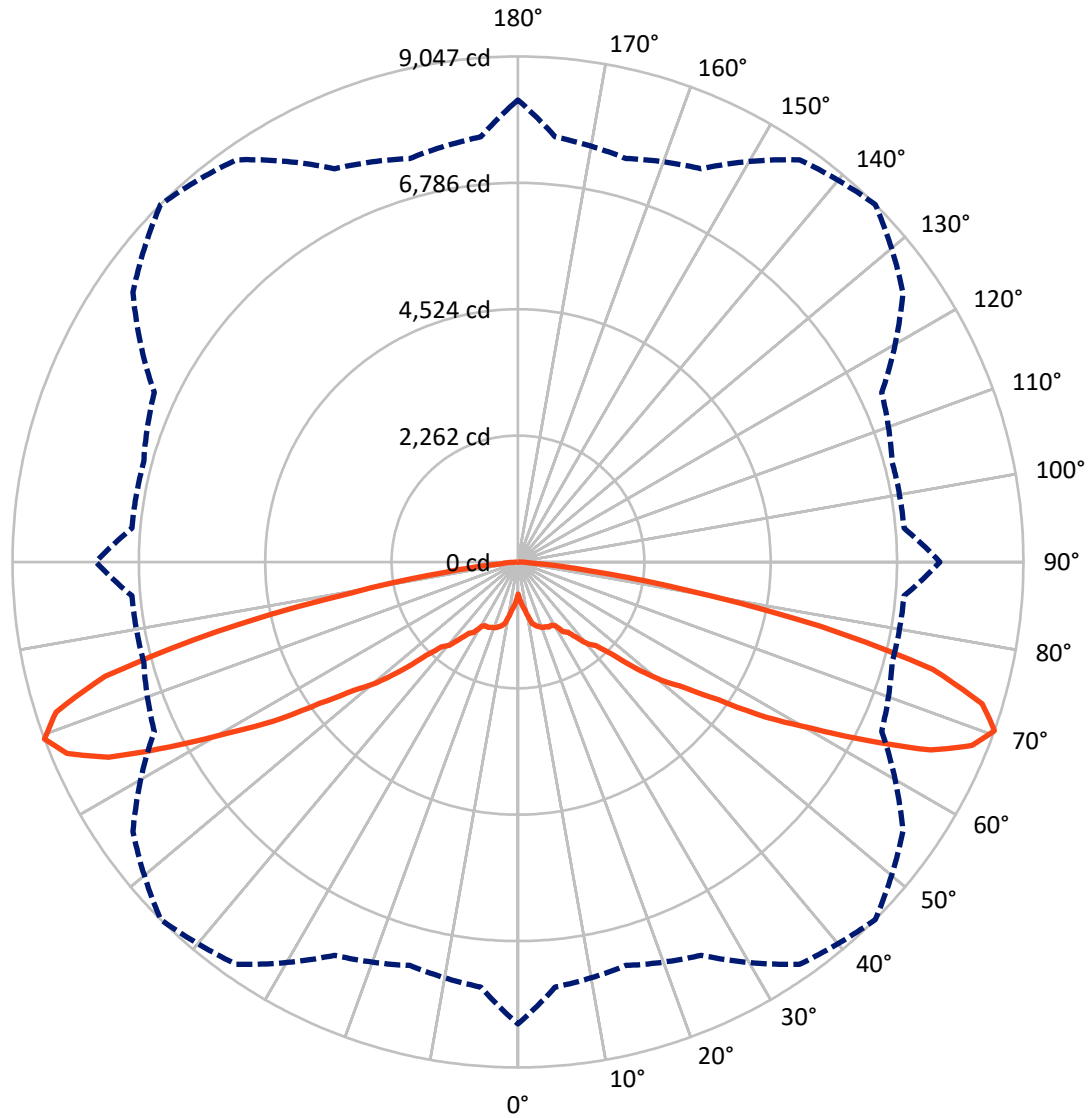
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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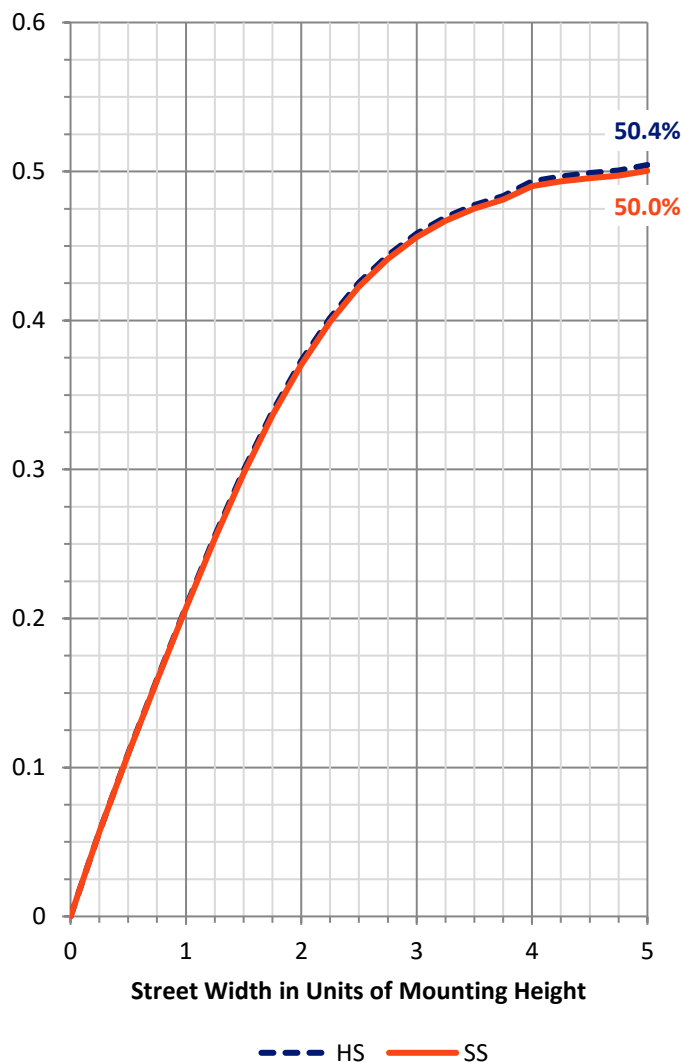
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10639.5	0.0	10639.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10639.5	0.0	10639.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21279.0	0.0	21279.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.7	0.4
10°-20°	335.0	1.6
20°-30°	633.3	3.0
30°-40°	1103.1	5.2
40°-50°	2108.8	9.9
50°-60°	4089.0	19.2
60°-70°	7160.1	33.6
70°-80°	5381.2	25.3
80°-90°	385.0	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°	21279.0	100.0
0°-180°	21279.0	100.0



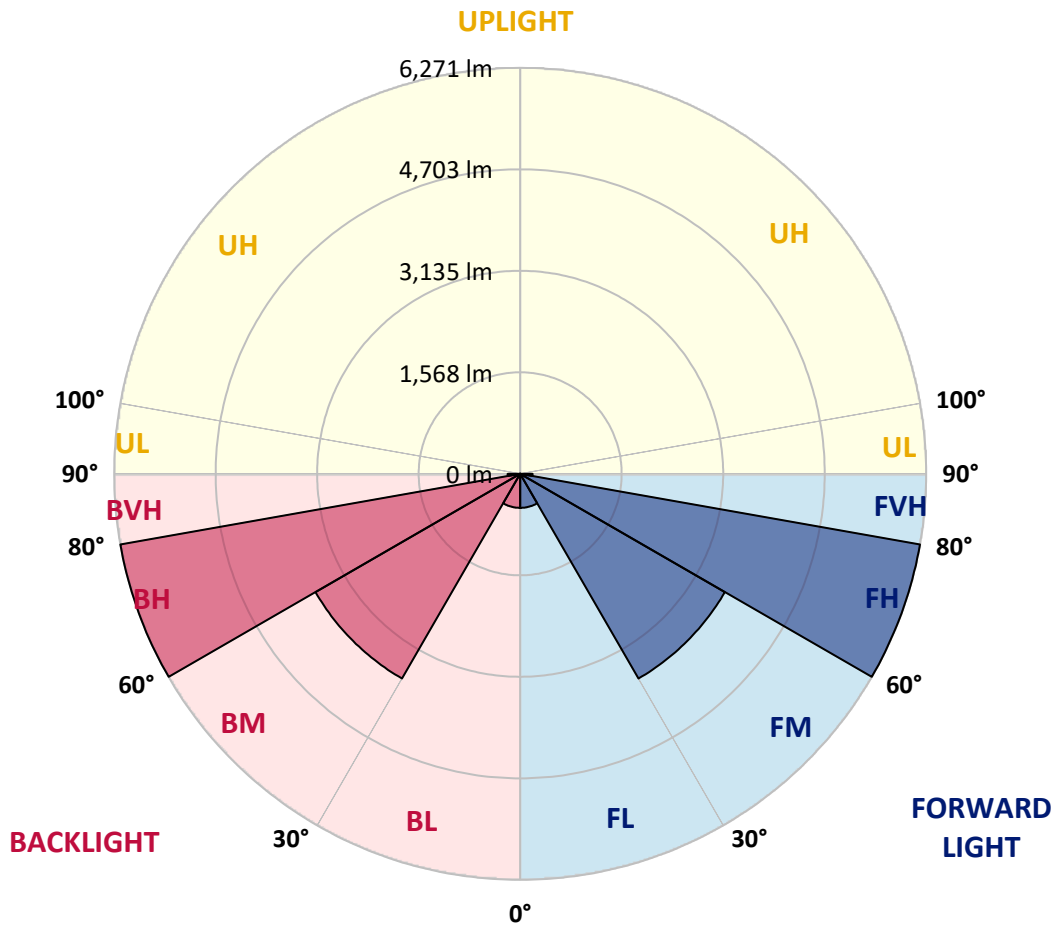
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.0	2.5			
FM (30°-60°)	3650.4	17.2			
FH (60°-80°)	6270.6	29.5			G3/7500
FVH (80°-90°)	192.5	0.9			G2/225
BL (0°-30°)	526.0	2.5	B2/1000		
BM (30°-60°)	3650.4	17.2	B3/5000		
BH (60°-80°)	6270.6	29.5	B5		G3/7500
BVH (80°-90°)	192.5	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4	575.4
2.5°	700.0	689.3	655.4	657.1	672.8	674.4	676.1	655.4	650.5	692.6	695.1
5°	889.1	864.3	839.5	829.6	814.8	773.5	818.9	823.8	833.7	865.9	880.8
7.5°	1015.4	984.8	951.0	930.3	889.9	856.0	893.2	923.7	943.5	979.9	1000.5
10°	1039.3	1021.1	1019.5	983.2	975.7	988.1	985.6	986.5	1016.2	1017.0	1029.4
12.5°	1114.4	1127.6	1102.0	1089.7	1097.1	1127.6	1102.9	1092.1	1099.6	1133.4	1119.4
15°	1212.6	1228.3	1189.5	1169.7	1149.9	1178.8	1153.2	1172.2	1196.1	1220.9	1208.5
17.5°	1321.6	1322.4	1269.6	1196.1	1213.5	1217.6	1208.5	1192.8	1261.4	1320.8	1315.0
20°	1381.0	1380.2	1289.4	1189.5	1240.7	1249.8	1241.5	1187.9	1291.1	1372.8	1370.3
22.5°	1442.1	1424.0	1315.0	1234.1	1253.1	1260.5	1241.5	1236.6	1315.0	1428.9	1428.1
25°	1475.2	1490.8	1371.1	1320.8	1305.1	1287.8	1304.3	1312.5	1387.7	1499.1	1466.9
27.5°	1578.3	1552.8	1387.7	1382.7	1349.7	1281.2	1338.1	1378.6	1382.7	1562.7	1595.7
30°	1671.6	1681.5	1461.9	1469.4	1409.1	1322.4	1410.8	1475.2	1487.5	1683.2	1679.9
32.5°	1770.7	1774.8	1594.0	1517.3	1491.7	1488.4	1454.5	1510.7	1608.1	1764.9	1771.5
35°	1920.9	1954.8	1712.1	1608.9	1576.7	1543.7	1573.4	1623.7	1714.5	1949.8	1933.3
37.5°	2265.2	2211.5	1968.8	1755.0	1733.5	1720.3	1744.3	1780.6	1966.3	2217.3	2294.0
40°	2505.4	2479.8	2149.6	1996.9	1861.5	1932.5	1876.3	2016.7	2170.2	2481.4	2531.0
42.5°	2877.7	2763.8	2424.5	2235.4	2095.1	2044.7	2076.1	2259.4	2455.0	2801.7	2899.1
45°	3235.1	3059.3	2768.7	2602.0	2389.0	2336.1	2378.2	2593.7	2819.9	3093.9	3265.7
47.5°	3600.0	3418.4	3098.9	2857.9	2683.7	2841.3	2703.5	2908.2	3133.6	3452.2	3604.9
50°	3978.9	3777.5	3462.1	3199.6	3184.8	3324.3	3159.2	3264.0	3472.8	3803.0	3983.0
52.5°	4413.9	4196.8	3881.5	3704.0	3738.7	3729.6	3696.6	3677.6	3883.1	4207.5	4421.3
55°	4931.5	4697.1	4445.3	4363.6	4459.3	4356.1	4404.8	4398.2	4427.9	4659.9	4910.0
57.5°	5557.2	5292.2	5039.6	5021.5	5144.5	5241.9	5155.2	5030.6	4978.5	5203.9	5490.4
60°	6345.6	6020.3	5743.0	5686.0	6036.8	6036.0	5957.6	5678.6	5658.8	5913.8	6258.9
62.5°	7216.5	6820.2	6517.3	6426.5	6976.2	7038.2	6793.8	6293.6	6395.9	6601.5	7010.9
65°	7956.1	7479.8	7197.5	7172.7	7844.7	8117.9	7578.0	6893.7	6926.7	7097.6	7540.9
67.5°	8438.2	7864.5	7639.9	7759.6	8595.0	8765.9	8264.0	7294.9	7177.7	7248.7	7778.6
70°	8269.0	7638.3	7476.5	7767.1	8789.0	9047.4	8411.8	7182.6	6933.3	6936.6	7552.4
72.5°	6987.0	6386.8	6463.6	6996.9	8330.1	8692.4	7728.3	6487.6	5977.4	5965.0	6523.9
75°	4620.3	4219.1	4522.1	5353.3	6925.1	7666.4	6403.4	5085.0	4445.3	4237.3	4669.0
77.5°	2020.8	1969.6	2224.7	3164.1	4721.0	5525.0	4587.3	3321.8	2417.9	2010.9	2196.6
80°	541.5	530.0	665.3	1200.3	2298.2	3042.8	2482.3	1324.9	691.8	503.6	534.1
82.5°	197.3	202.2	246.8	336.0	757.0	1281.2	824.7	387.2	261.7	214.6	214.6
85°	85.9	83.4	119.7	134.6	206.4	289.7	236.9	164.3	132.1	99.1	94.9
87.5°	23.1	28.9	40.4	42.1	53.7	43.8	62.7	57.8	49.5	34.7	28.1
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)