

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: P597049

Luminaire Tested: **MSA-SA3C-835-U-5WQ**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P597049  
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-SA3C-835-U-5WQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16100 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

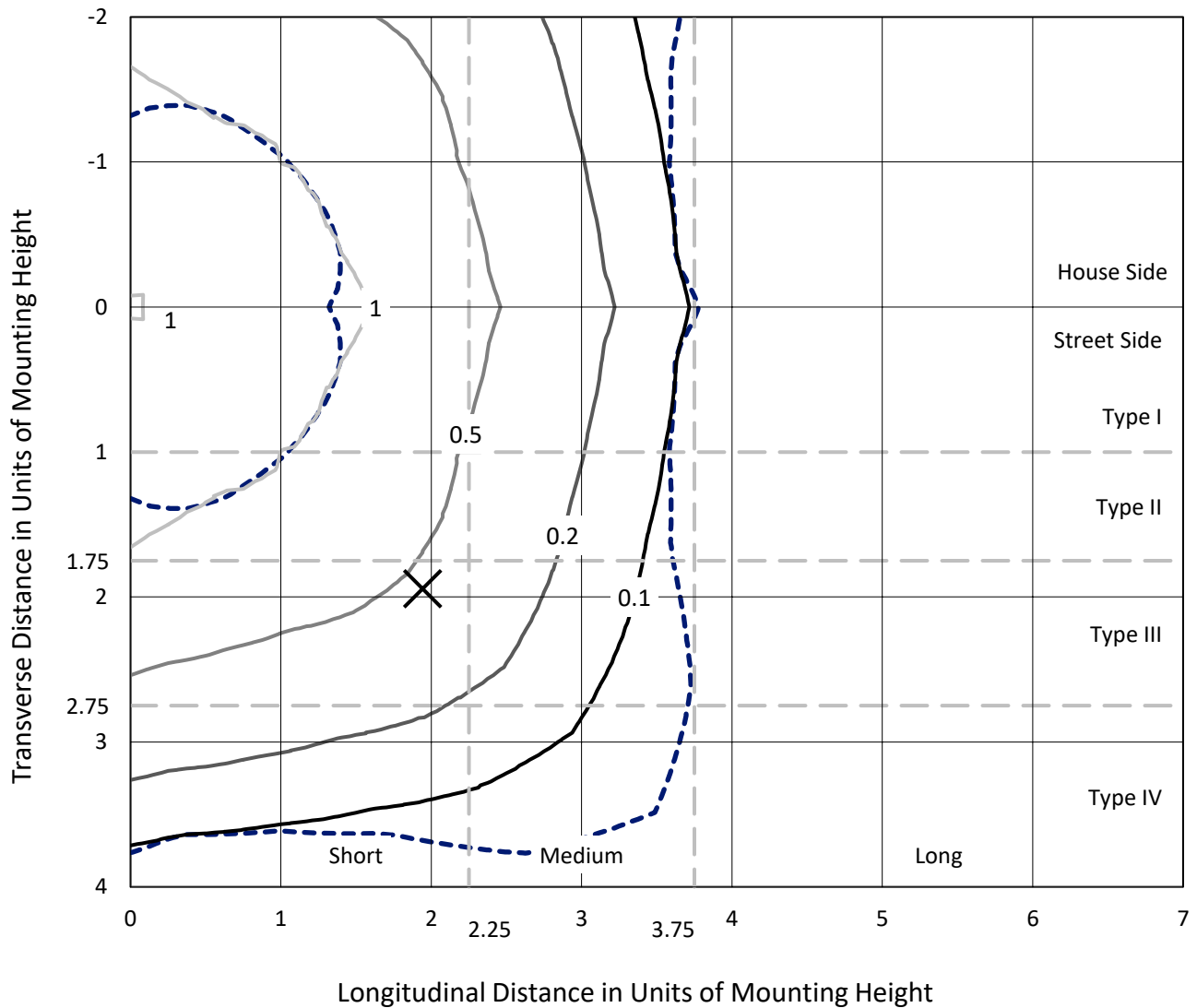
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

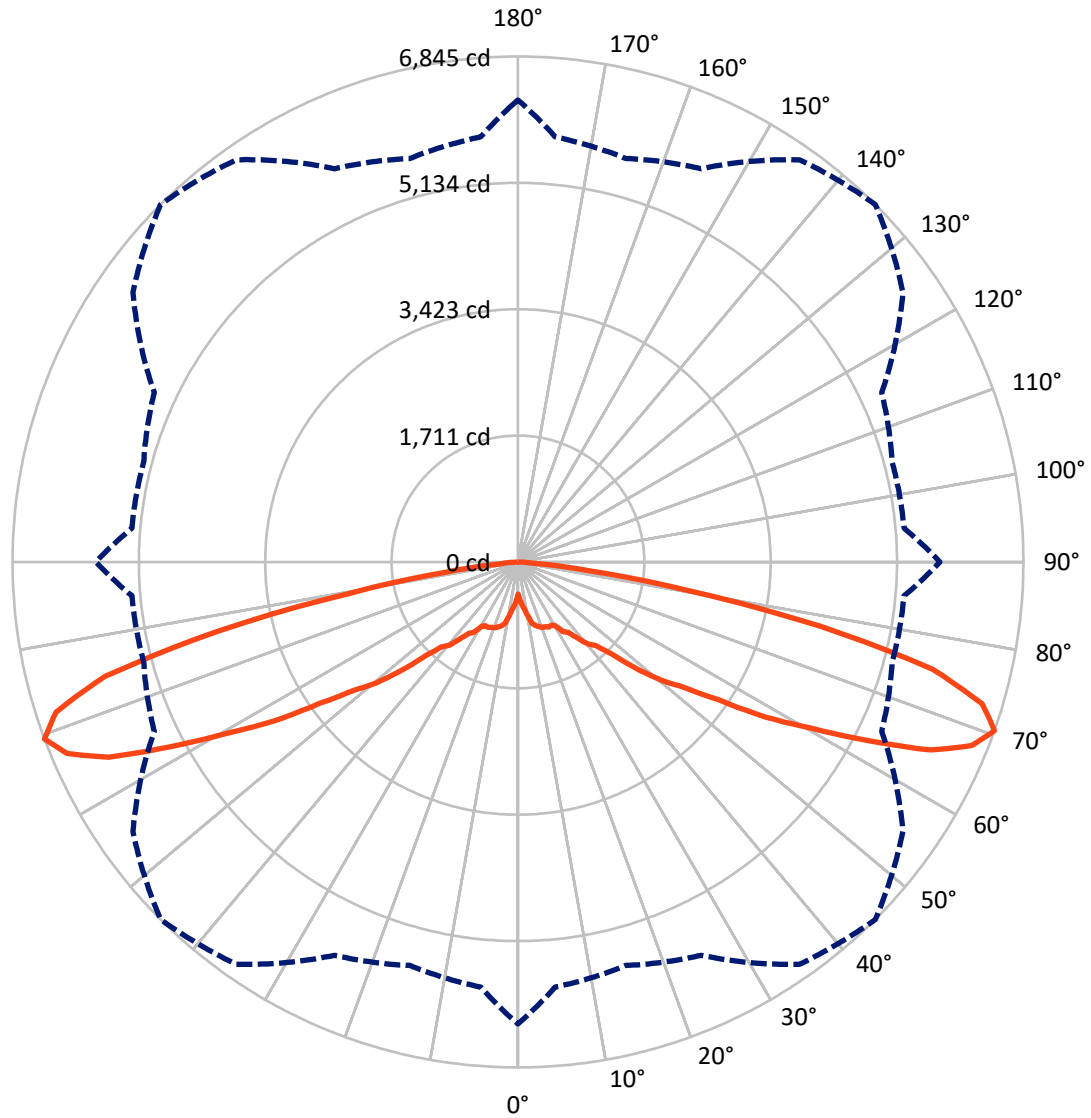
✕ Max cd  
 - - - 1/2 Max cd



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 70-Deg Vertical

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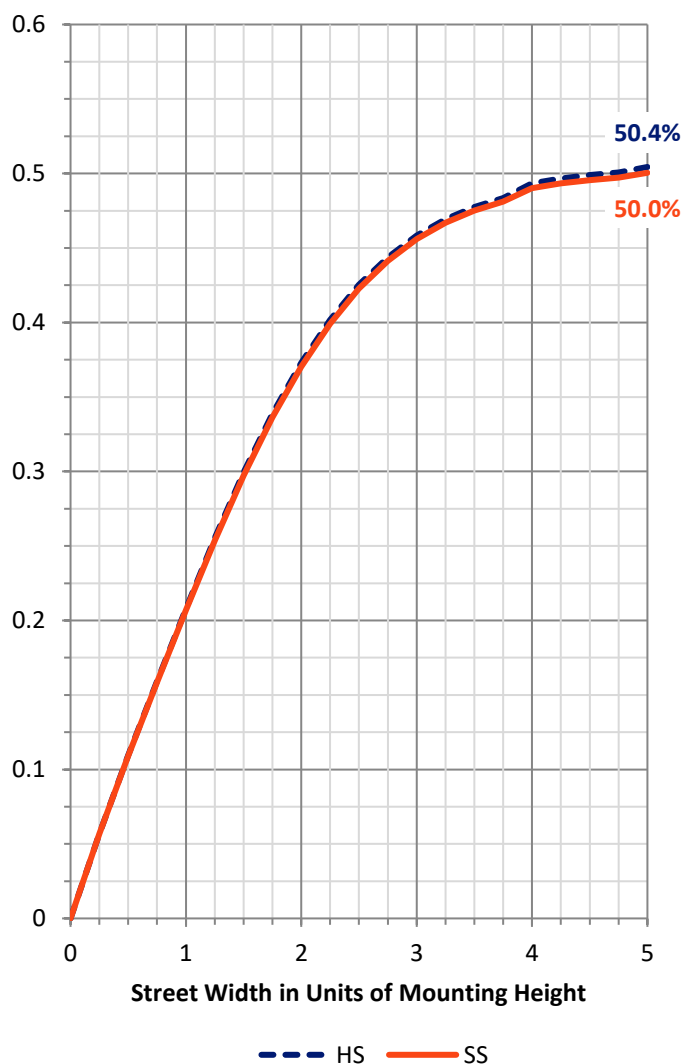
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8050.0	0.0	8050.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8050.0	0.0	8050.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16100.0	0.0	16100.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.3	0.4
10°-20°	253.4	1.6
20°-30°	479.1	3.0
30°-40°	834.6	5.2
40°-50°	1595.5	9.9
50°-60°	3093.8	19.2
60°-70°	5417.4	33.6
70°-80°	4071.5	25.3
80°-90°	291.3	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°	16100.0	100.0
0°-180°	16100.0	100.0

**Coefficient of Utilization**

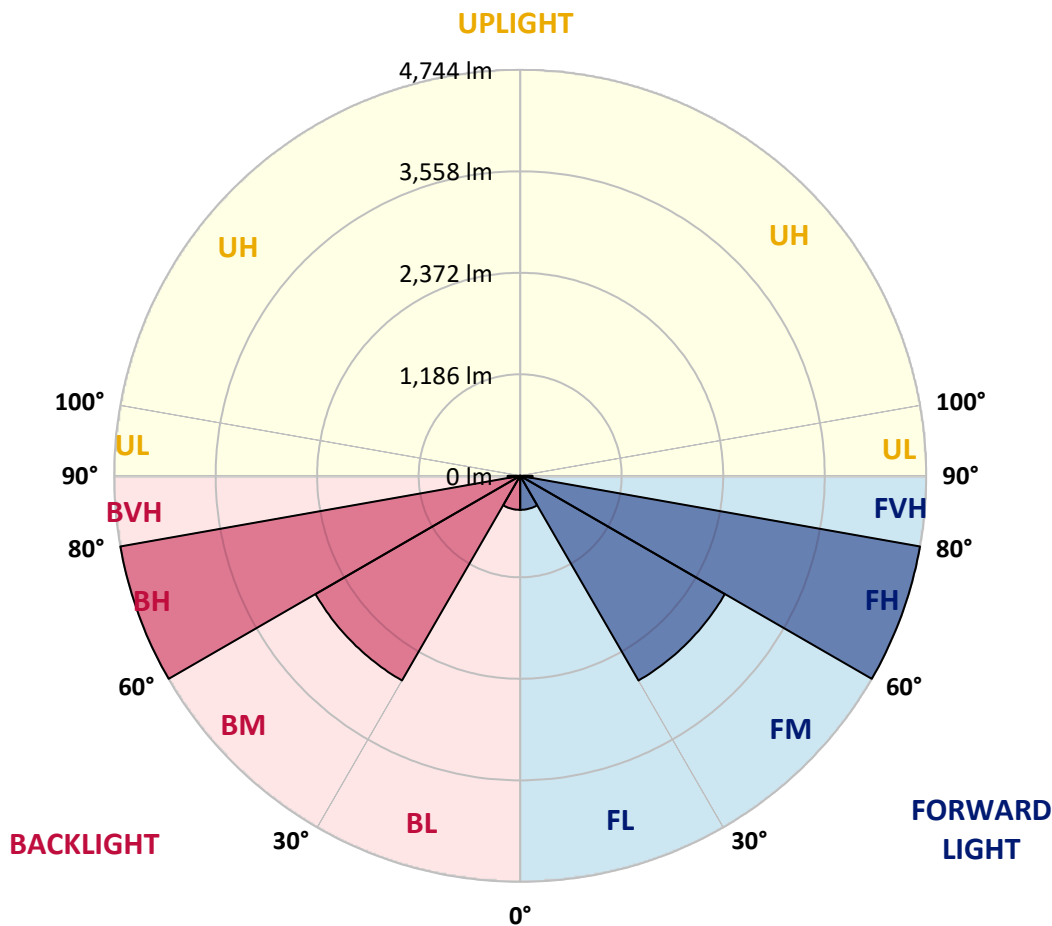


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.9	2.5			
FM (30°-60°)	2762.0	17.2			
FH (60°-80°)	4744.4	29.5			G2/5000
FVH (80°-90°)	145.7	0.9			G2/225
BL (0°-30°)	397.9	2.5	B1/500		
BM (30°-60°)	2762.0	17.2	B3/5000		
BH (60°-80°)	4744.4	29.5	B4/5000		G2/5000
BVH (80°-90°)	145.7	0.9			G2/225
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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	435.3	435.3	435.3	435.3	435.3	435.3	435.3	435.3	435.3	435.3	435.3
2.5°	529.6	521.5	495.9	497.2	509.0	510.3	511.5	495.9	492.2	524.0	525.9
5°	672.7	653.9	635.2	627.7	616.5	585.2	619.6	623.3	630.8	655.2	666.4
7.5°	768.2	745.1	719.5	703.9	673.3	647.7	675.8	698.9	713.9	741.4	757.0
10°	786.3	772.6	771.4	743.9	738.3	747.6	745.7	746.4	768.9	769.5	778.9
12.5°	843.2	853.2	833.8	824.4	830.1	853.2	834.4	826.3	831.9	857.5	846.9
15°	917.5	929.4	900.0	885.0	870.0	891.9	872.5	886.9	905.0	923.8	914.4
17.5°	1000.0	1000.6	960.6	905.0	918.1	921.3	914.4	902.5	954.4	999.3	995.0
20°	1044.9	1044.3	975.6	900.0	938.7	945.6	939.4	898.8	976.8	1038.7	1036.8
22.5°	1091.1	1077.4	995.0	933.7	948.1	953.7	939.4	935.6	995.0	1081.1	1080.5
25°	1116.1	1128.0	1037.4	999.3	987.5	974.3	986.8	993.1	1049.9	1134.2	1109.9
27.5°	1194.2	1174.8	1049.9	1046.2	1021.2	969.3	1012.4	1043.0	1046.2	1182.3	1207.3
30°	1264.8	1272.3	1106.1	1111.8	1066.2	1000.6	1067.4	1116.1	1125.5	1273.5	1271.0
32.5°	1339.7	1342.8	1206.1	1148.0	1128.6	1126.1	1100.5	1143.0	1216.7	1335.4	1340.3
35°	1453.4	1479.0	1295.4	1217.3	1192.9	1168.0	1190.4	1228.5	1297.3	1475.3	1462.8
37.5°	1713.8	1673.2	1489.6	1327.9	1311.6	1301.6	1319.7	1347.2	1487.7	1677.6	1735.7
40°	1895.6	1876.2	1626.4	1510.9	1408.4	1462.1	1419.7	1525.8	1642.0	1877.5	1915.0
42.5°	2177.3	2091.1	1834.4	1691.4	1585.2	1547.1	1570.8	1709.5	1857.5	2119.8	2193.5
45°	2447.7	2314.7	2094.8	1968.7	1807.5	1767.6	1799.4	1962.4	2133.6	2340.9	2470.8
47.5°	2723.8	2586.4	2344.7	2162.3	2030.5	2149.8	2045.5	2200.4	2370.9	2612.0	2727.5
50°	3010.5	2858.1	2619.5	2420.9	2409.6	2515.2	2390.3	2469.6	2627.6	2877.4	3013.6
52.5°	3339.6	3175.4	2936.8	2802.5	2828.7	2821.9	2796.9	2782.5	2938.0	3183.5	3345.3
55°	3731.2	3553.9	3363.4	3301.5	3374.0	3295.9	3332.8	3327.8	3350.2	3525.8	3715.0
57.5°	4204.7	4004.2	3813.1	3799.3	3892.4	3966.1	3900.5	3806.2	3766.8	3937.4	4154.1
60°	4801.1	4555.1	4345.2	4302.1	4567.6	4566.9	4507.6	4296.5	4281.5	4474.5	4735.6
62.5°	5460.1	5160.3	4931.1	4862.4	5278.3	5325.2	5140.3	4761.8	4839.2	4994.8	5304.6
65°	6019.7	5659.3	5445.7	5427.0	5935.4	6142.1	5733.6	5215.9	5240.9	5370.1	5705.5
67.5°	6384.5	5950.4	5780.5	5871.1	6503.1	6632.4	6252.7	5519.4	5430.7	5484.4	5885.4
70°	6256.4	5779.2	5656.8	5876.7	6649.9	6845.4	6364.5	5434.5	5245.8	5248.3	5714.3
72.5°	5286.4	4832.4	4890.5	5293.9	6302.6	6576.8	5847.3	4908.6	4522.6	4513.2	4936.1
75°	3495.8	3192.2	3421.4	4050.4	5239.6	5800.5	4844.9	3847.4	3363.4	3206.0	3532.6
77.5°	1529.0	1490.2	1683.2	2394.0	3572.0	4180.3	3470.8	2513.3	1829.4	1521.5	1662.0
80°	409.7	401.0	503.4	908.1	1738.8	2302.2	1878.1	1002.5	523.4	381.0	404.1
82.5°	149.3	153.0	186.7	254.2	572.7	969.3	624.0	292.9	198.0	162.4	162.4
85°	65.0	63.1	90.6	101.8	156.1	219.2	179.3	124.3	99.9	74.9	71.8
87.5°	17.5	21.9	30.6	31.9	40.6	33.1	47.5	43.7	37.5	26.2	21.2
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)