

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: P597047

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P597047  
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-SA3C-835-U-5MQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16166 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

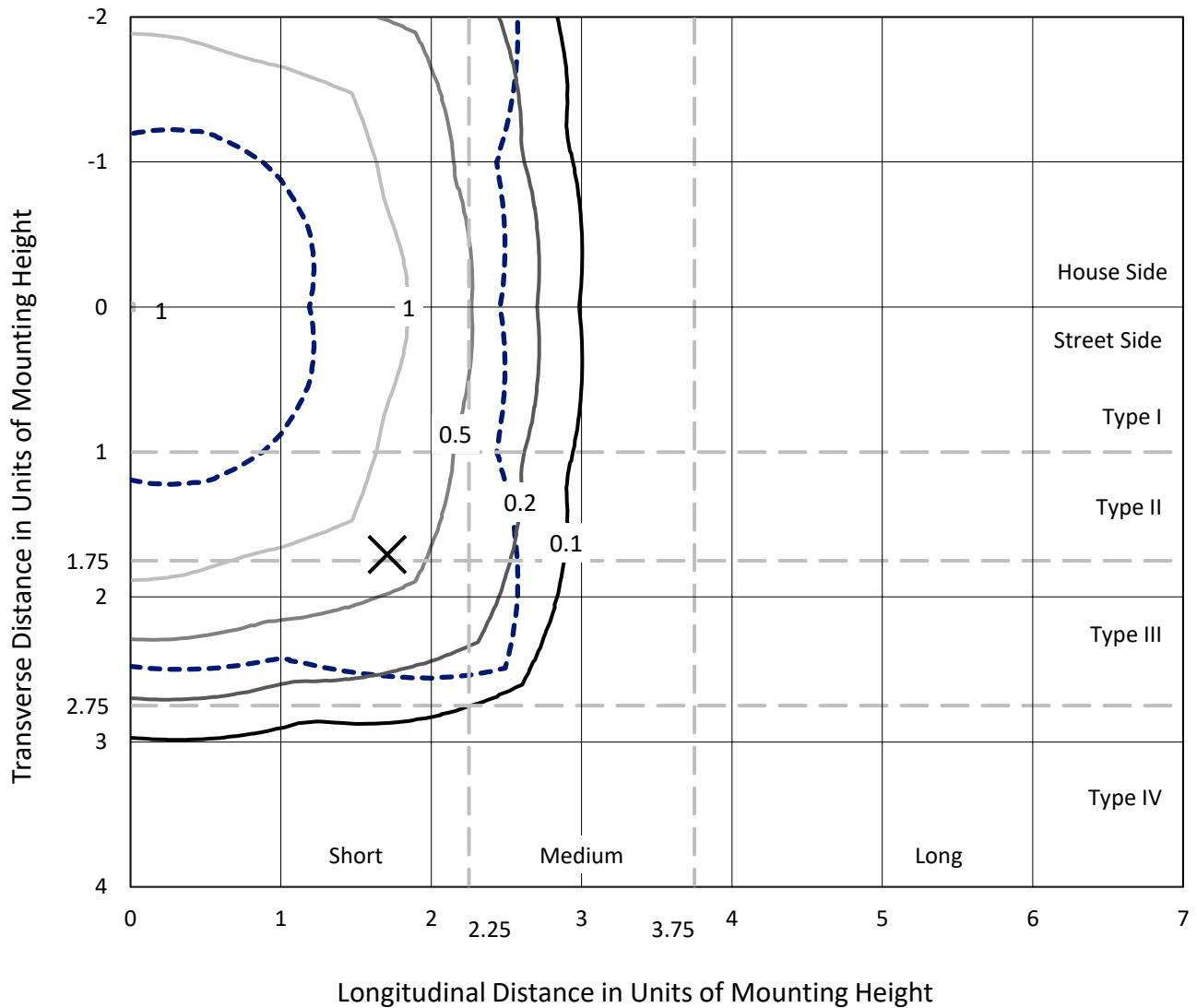
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

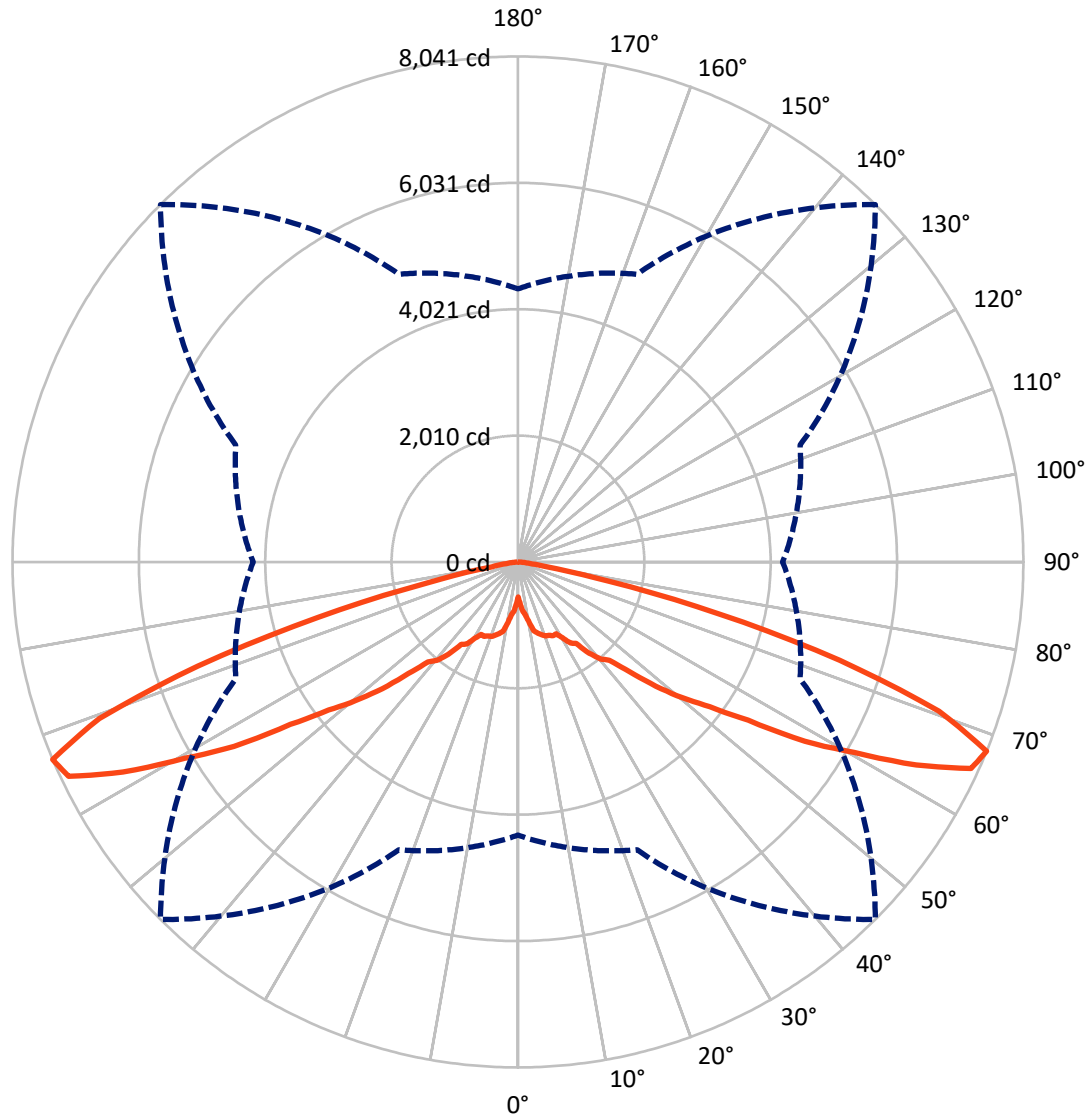
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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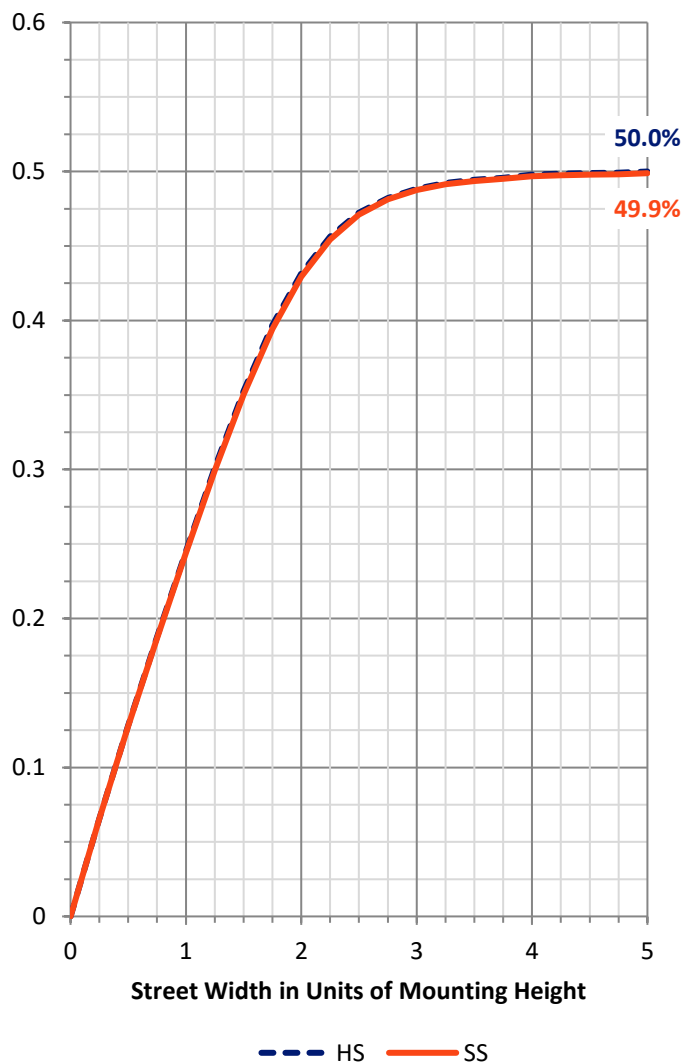
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8083.0	0.0	8083.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8083.0	0.0	8083.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16166.0	0.0	16166.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	0.5
10°-20°	326.6	2.0
20°-30°	623.2	3.9
30°-40°	1139.4	7.0
40°-50°	2209.3	13.7
50°-60°	4218.9	26.1
60°-70°	5700.2	35.3
70°-80°	1770.3	11.0
80°-90°	95.4	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°	16166.0	100.0
0°-180°	16166.0	100.0

**Coefficient of Utilization**



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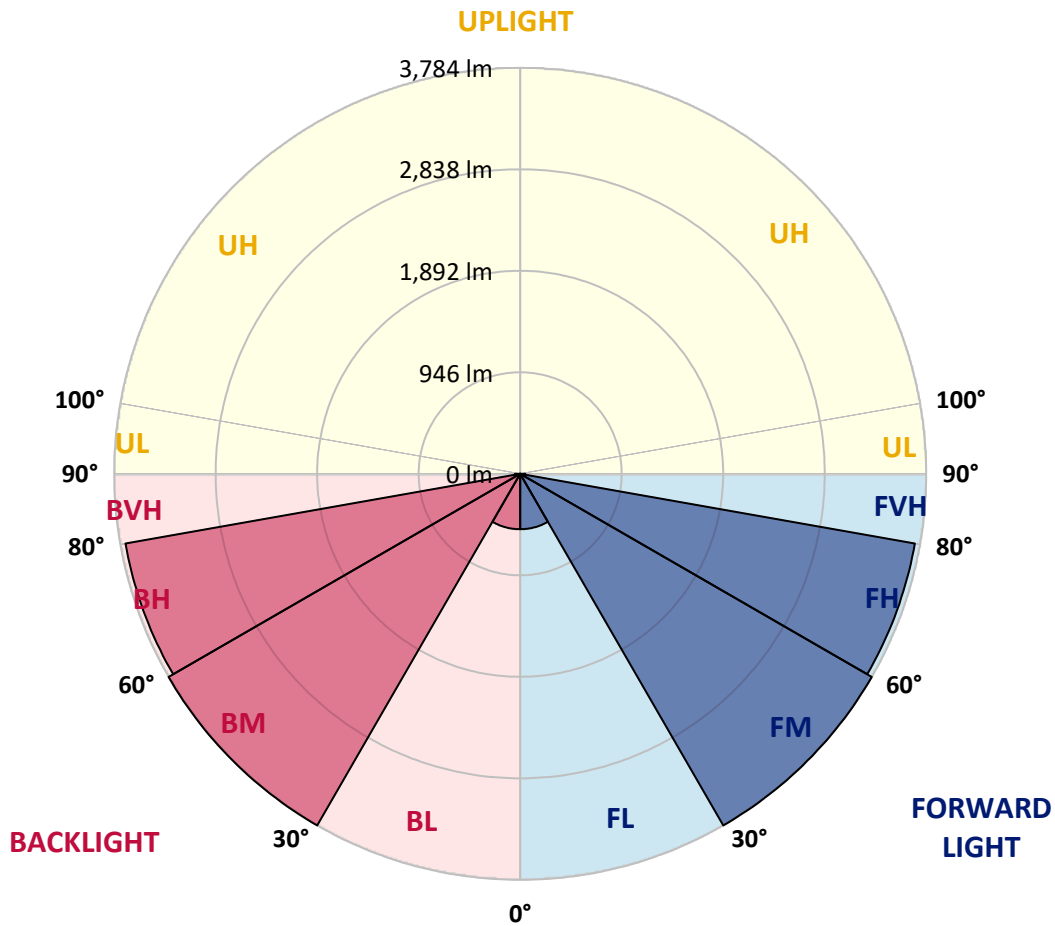
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.2	3.2			
FM (30°-60°)	3783.8	23.4			
FH (60°-80°)	3735.3	23.1			G2/5000
FVH (80°-90°)	47.7	0.3			G1/100
BL (0°-30°)	516.2	3.2	B2/1000		
BM (30°-60°)	3783.8	23.4	B3/5000		
BH (60°-80°)	3735.3	23.1	B4/5000		G2/5000
BVH (80°-90°)	47.7	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°	554.0	554.0	554.0	554.0	554.0
2.5°	682.0	638.3	658.3	638.3	682.0
5°	866.9	821.3	781.3	810.0	869.4
7.5°	996.1	928.1	843.8	920.6	990.5
10°	1018.0	979.9	976.2	975.5	1015.5
12.5°	1099.8	1074.2	1125.4	1076.7	1102.3
15°	1163.5	1149.2	1172.3	1167.3	1166.0
17.5°	1262.2	1164.8	1217.2	1159.2	1259.1
20°	1305.9	1167.9	1256.0	1161.0	1305.3
22.5°	1359.6	1241.6	1267.8	1244.7	1354.6
25°	1390.2	1289.1	1298.4	1290.3	1390.9
27.5°	1515.8	1394.0	1294.1	1410.8	1538.9
30°	1611.3	1462.1	1396.5	1463.9	1623.2
32.5°	1749.3	1563.9	1538.2	1588.8	1771.2
35°	1920.5	1735.0	1591.3	1735.6	1956.7
37.5°	2255.8	1890.5	1839.9	1945.4	2280.8
40°	2492.5	2135.9	2027.9	2175.3	2533.1
42.5°	2856.0	2411.4	2137.2	2431.3	2918.5
45°	3194.5	2745.5	2485.7	2768.6	3240.1
47.5°	3552.4	3052.1	2954.7	3080.9	3586.1
50°	3975.2	3467.5	3399.4	3499.9	3989.6
52.5°	4474.2	4023.3	3822.2	4042.0	4479.2
55°	5066.9	4489.8	4444.9	4541.0	5074.4
57.5°	5646.5	5094.4	5382.9	5100.0	5545.9
60°	6059.9	5651.5	6154.2	5507.8	5837.0
62.5°	6086.2	6064.3	7114.8	5820.7	5774.5
65°	5519.1	5897.6	7919.2	5707.1	5241.8
67.5°	4344.3	4954.5	8041.0	4858.3	4211.3
70°	2729.9	3430.6	7108.5	3562.4	2807.3
72.5°	1259.1	1848.6	5353.0	2081.0	1330.9
75°	450.9	707.6	3302.6	760.1	471.5
77.5°	256.1	286.7	1459.6	287.9	264.8
80°	164.9	178.6	421.6	188.6	160.5
82.5°	93.7	124.9	184.9	132.4	86.2
85°	50.6	79.3	81.8	81.2	50.6
87.5°	18.1	31.2	18.1	35.6	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)