

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: P366951

Luminaire Tested: **MSA-SA1C-760-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: MSA-SA1C-760-U-5MQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6756 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

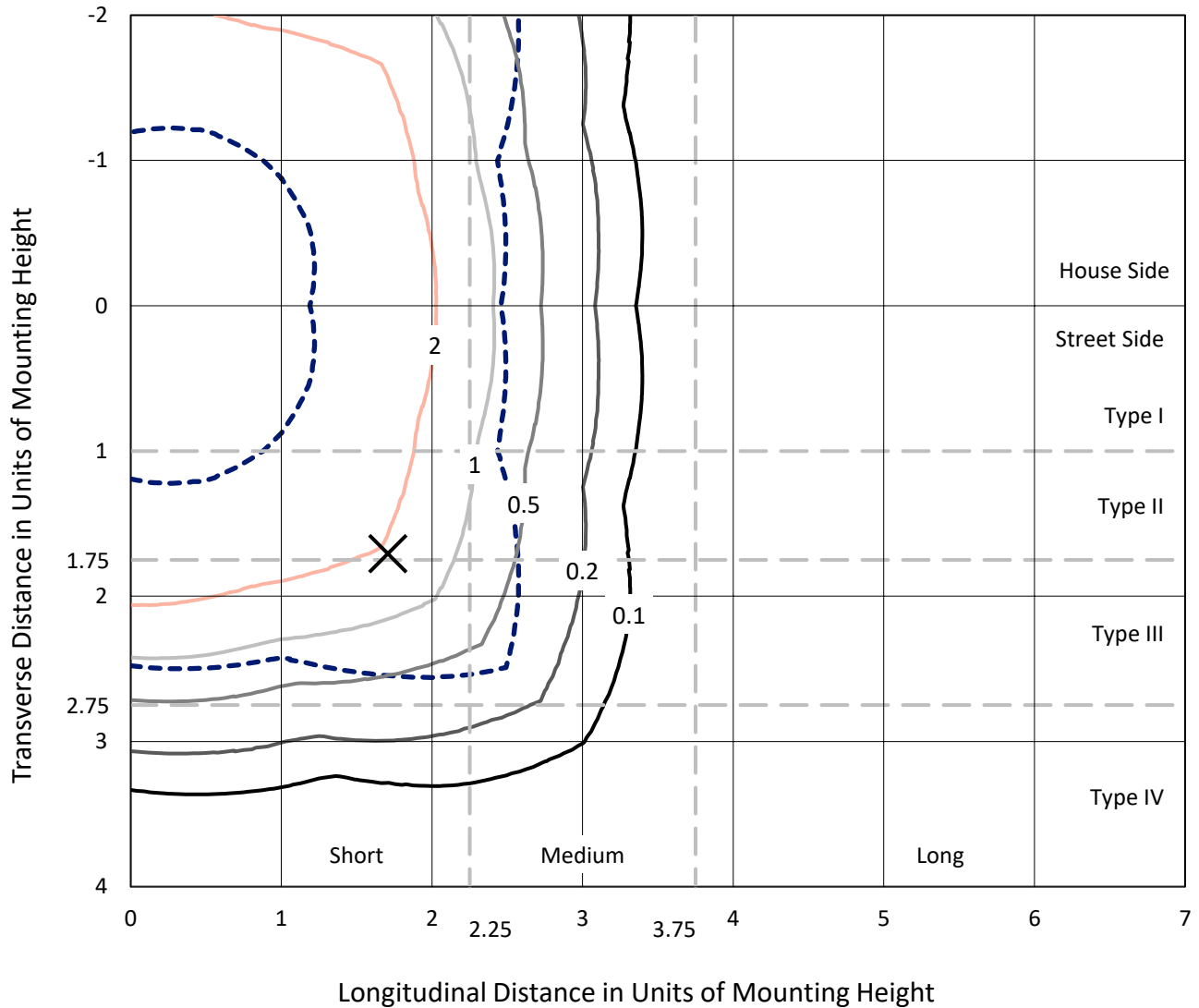
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

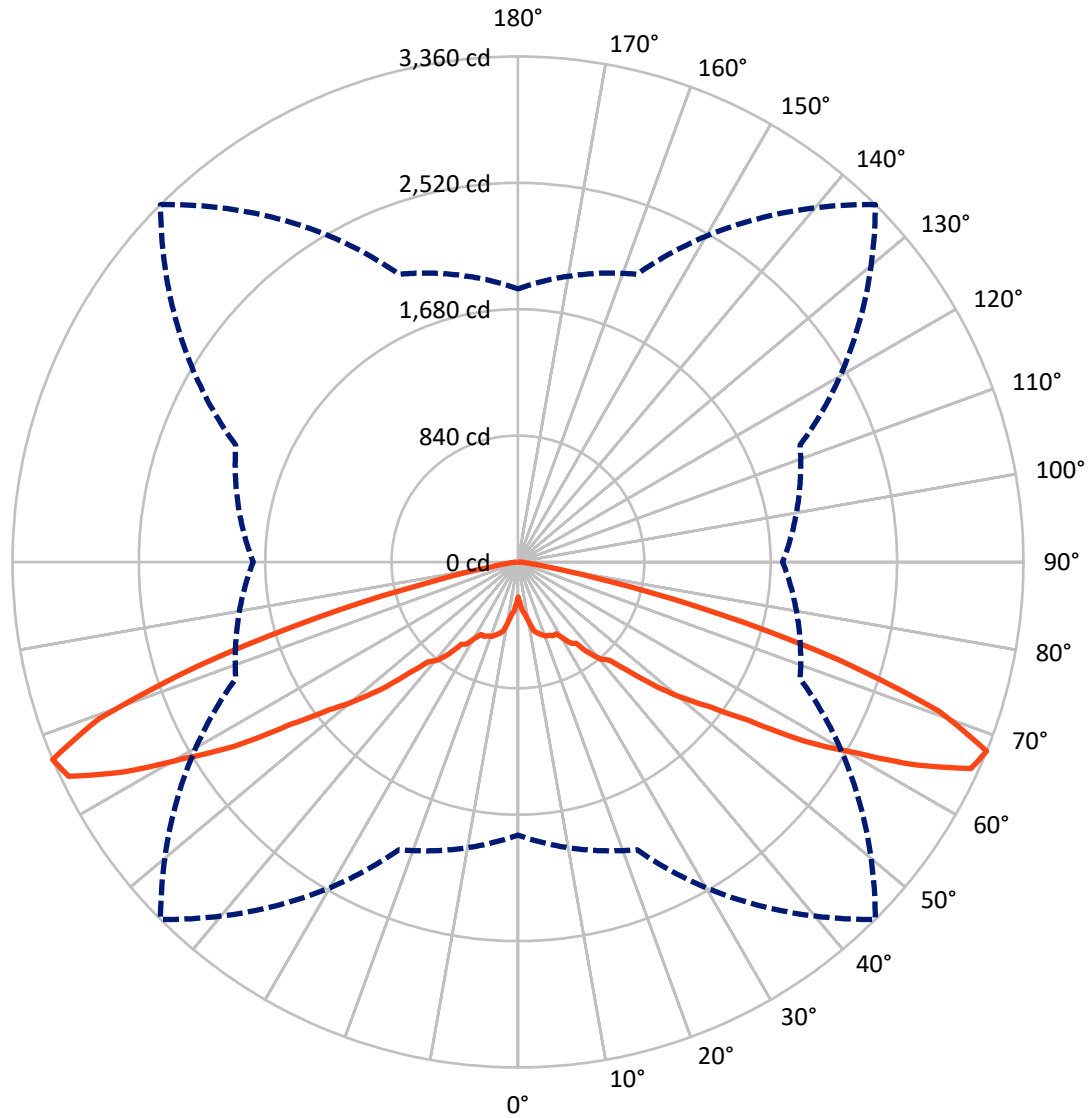
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 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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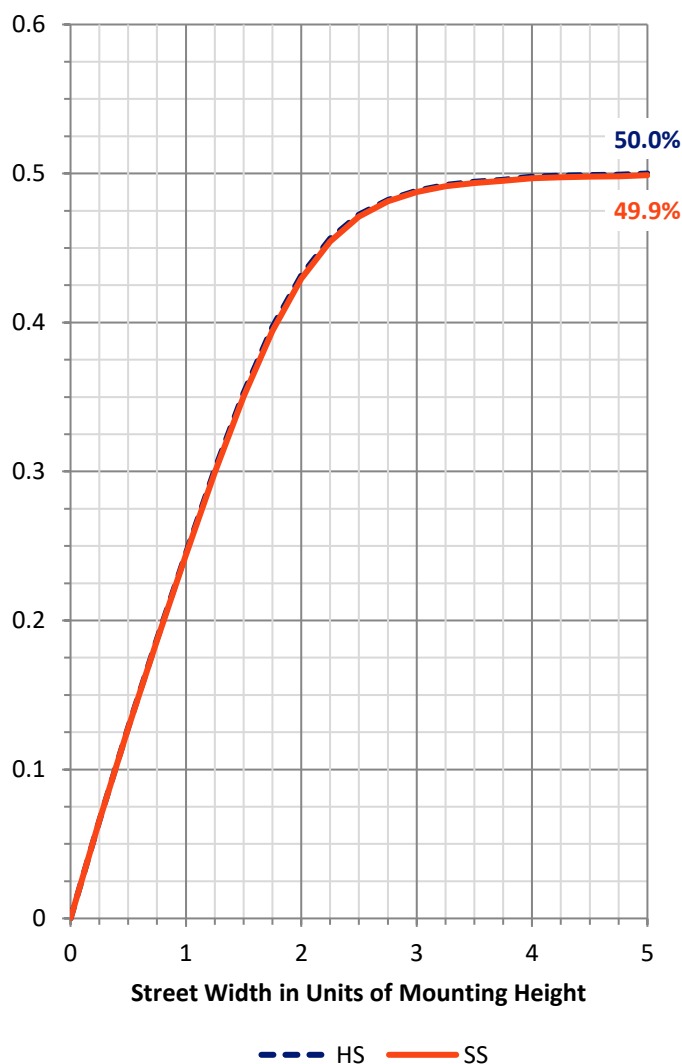
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3378.0	0.0	3378.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3378.0	0.0	3378.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6756.0	0.0	6756.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.5	0.5
10°-20°	136.5	2.0
20°-30°	260.4	3.9
30°-40°	476.2	7.0
40°-50°	923.3	13.7
50°-60°	1763.2	26.1
60°-70°	2382.2	35.3
70°-80°	739.8	11.0
80°-90°	39.9	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°	6756.0	100.0
0°-180°	6756.0	100.0

**Coefficient of Utilization**



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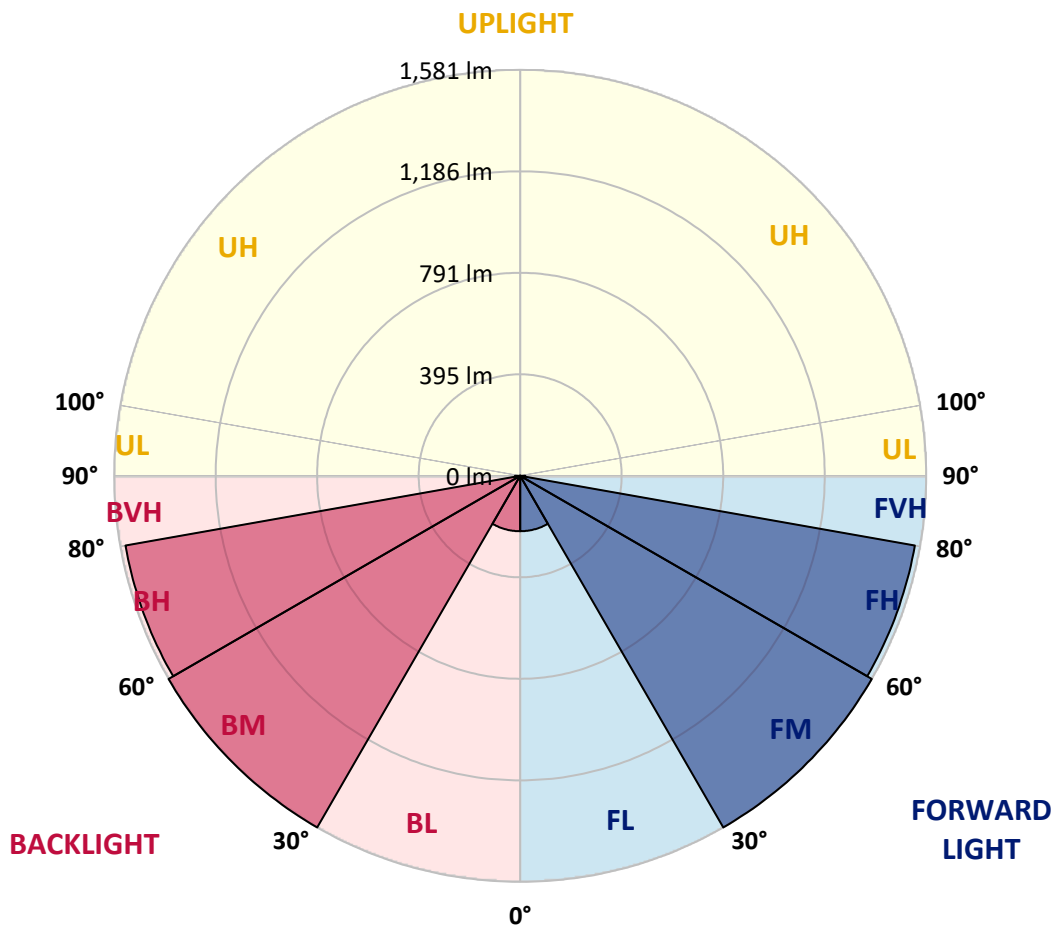
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	215.7	3.2			
FM (30°-60°)	1581.3	23.4			
FH (60°-80°)	1561.0	23.1			G1/1800
FVH (80°-90°)	19.9	0.3			G1/100
BL (0°-30°)	215.7	3.2	B1/500		
BM (30°-60°)	1581.3	23.4	B2/2500		
BH (60°-80°)	1561.0	23.1	B3/2500		G1/1800
BVH (80°-90°)	19.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	231.5	231.5	231.5	231.5	231.5
2.5°	285.0	266.7	275.1	266.7	285.0
5°	362.3	343.2	326.5	338.5	363.3
7.5°	416.3	387.9	352.6	384.7	414.0
10°	425.4	409.5	408.0	407.7	424.4
12.5°	459.6	448.9	470.3	450.0	460.7
15°	486.3	480.2	489.9	487.8	487.3
17.5°	527.5	486.8	508.7	484.4	526.2
20°	545.8	488.1	524.9	485.2	545.5
22.5°	568.2	518.9	529.8	520.2	566.1
25°	581.0	538.7	542.6	539.2	581.3
27.5°	633.5	582.6	540.8	589.6	643.1
30°	673.4	611.0	583.6	611.8	678.4
32.5°	731.1	653.6	642.9	664.0	740.2
35°	802.6	725.1	665.0	725.3	817.7
37.5°	942.8	790.1	768.9	813.0	953.2
40°	1041.7	892.6	847.5	909.1	1058.6
42.5°	1193.6	1007.7	893.2	1016.1	1219.7
45°	1335.0	1147.4	1038.8	1157.0	1354.1
47.5°	1484.6	1275.5	1234.8	1287.5	1498.7
50°	1661.3	1449.1	1420.7	1462.7	1667.3
52.5°	1869.8	1681.4	1597.4	1689.2	1871.9
55°	2117.5	1876.4	1857.6	1897.8	2120.7
57.5°	2359.7	2129.0	2249.6	2131.4	2317.7
60°	2532.5	2361.8	2571.9	2301.8	2439.4
62.5°	2543.5	2534.4	2973.4	2432.6	2413.3
65°	2306.5	2464.7	3309.5	2385.1	2190.6
67.5°	1815.6	2070.6	3360.4	2030.4	1760.0
70°	1140.9	1433.7	2970.8	1488.8	1173.2
72.5°	526.2	772.6	2237.1	869.7	556.2
75°	188.4	295.7	1380.2	317.6	197.1
77.5°	107.0	119.8	610.0	120.3	110.7
80°	68.9	74.6	176.2	78.8	67.1
82.5°	39.2	52.2	77.3	55.3	36.0
85°	21.1	33.1	34.2	33.9	21.1
87.5°	7.6	13.1	7.6	14.9	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)