

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: P366885

Luminaire Tested: **MSA-SA1C-730-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366885  
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-730-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: 6152 lumens  
Efficiency: N/A  
Efficacy: 104.3 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

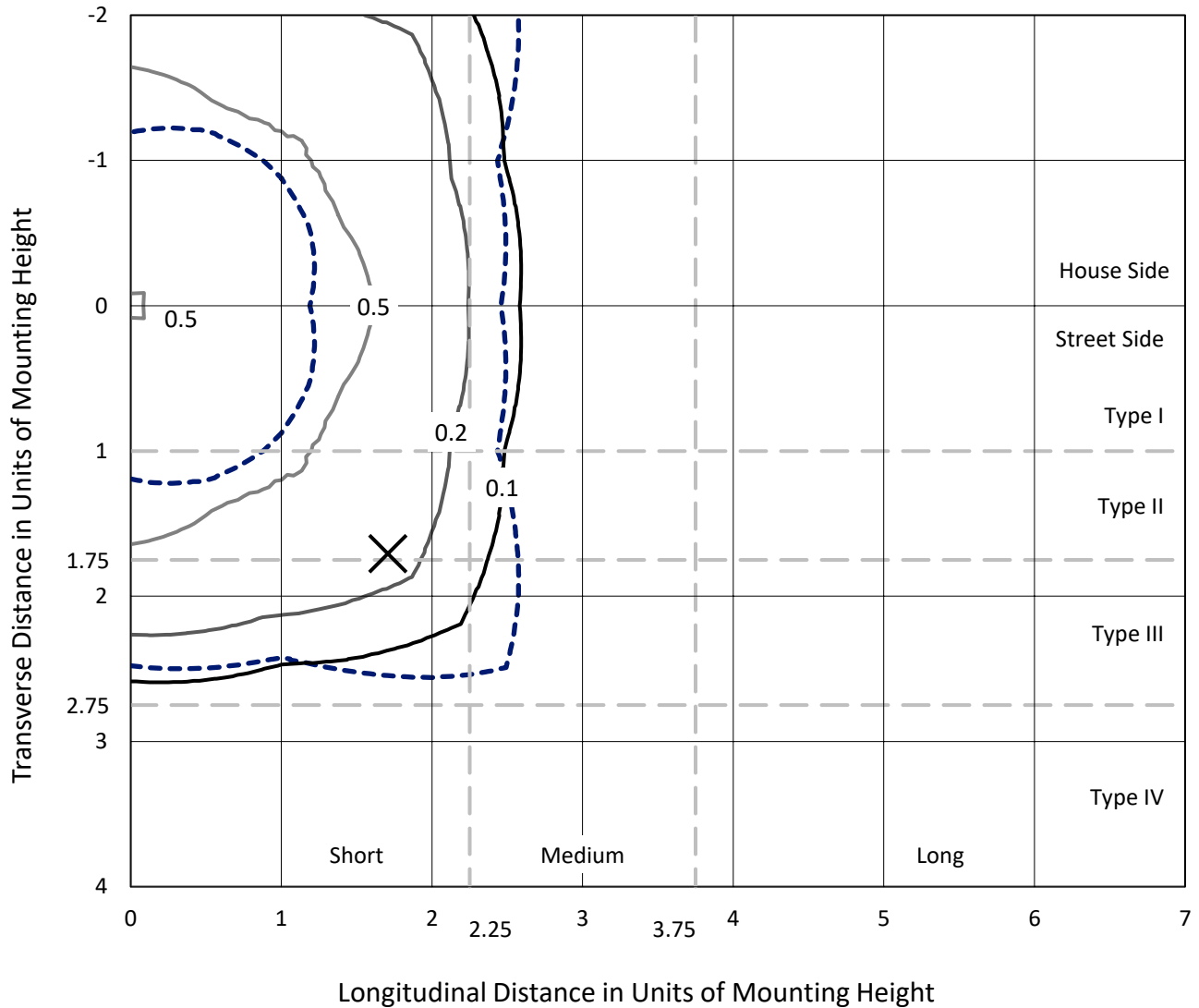
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

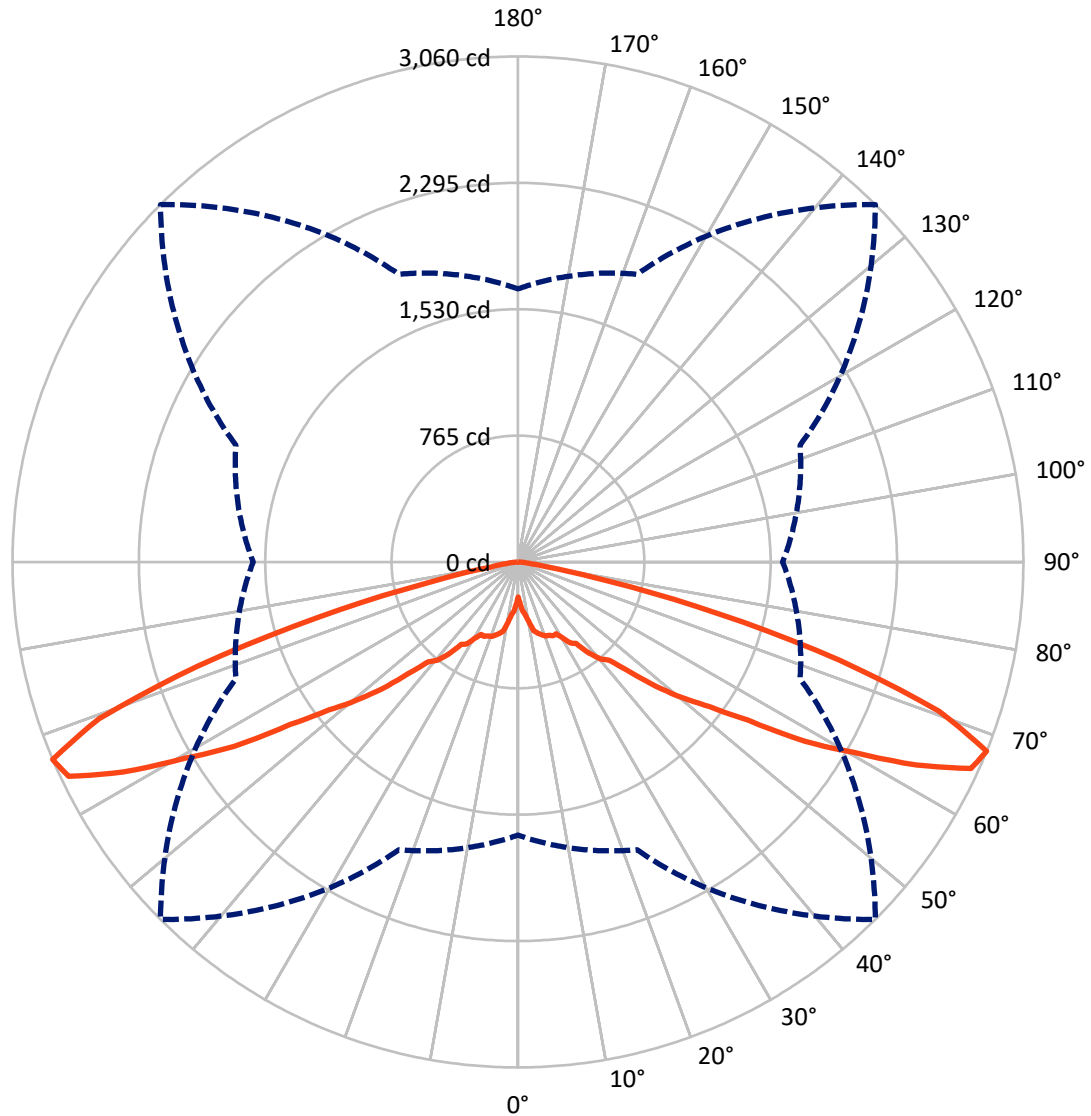
✕ Max cd  
 - - - 1/2 Max cd



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 67.5-Deg Vertical

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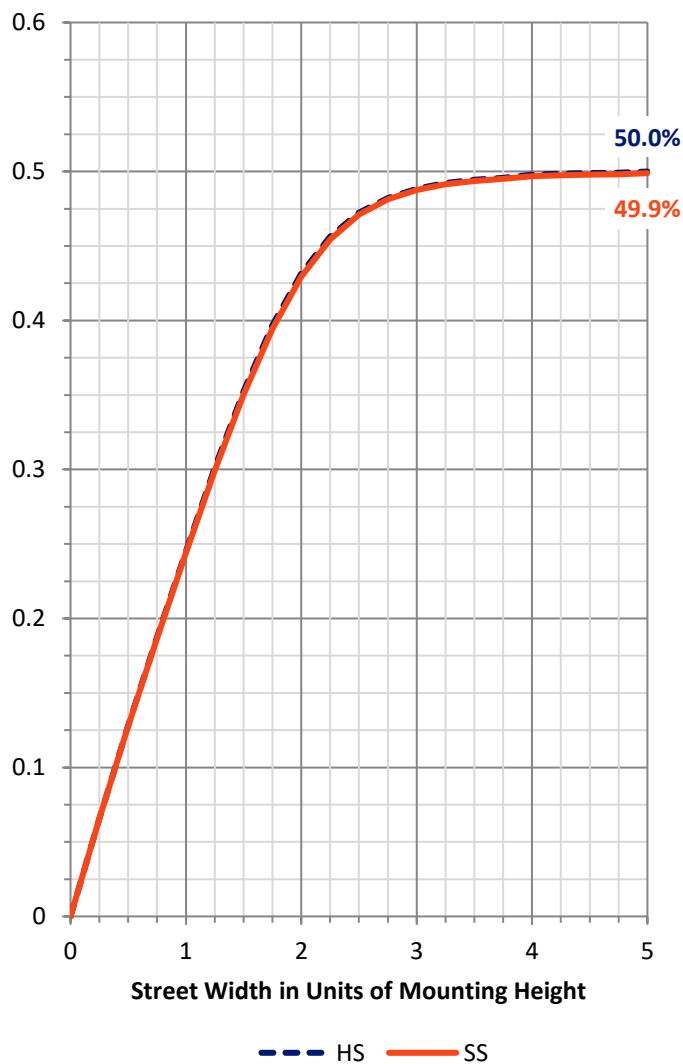
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3076.0	0.0	3076.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3076.0	0.0	3076.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6152.0	0.0	6152.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.4	0.5
10°-20°	124.3	2.0
20°-30°	237.2	3.9
30°-40°	433.6	7.0
40°-50°	840.7	13.7
50°-60°	1605.5	26.1
60°-70°	2169.2	35.3
70°-80°	673.7	11.0
80°-90°	36.3	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°	6152.0	100.0
0°-180°	6152.0	100.0

**Coefficient of Utilization**



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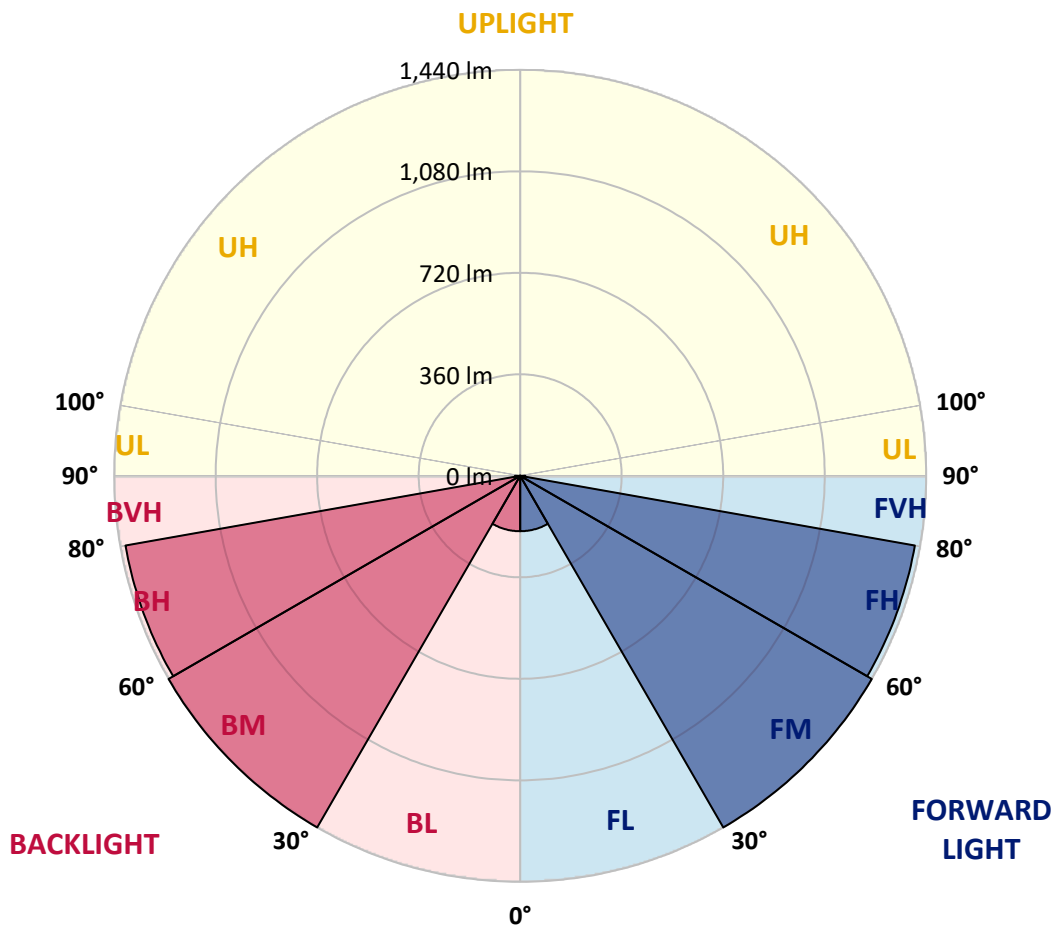
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.5	3.2			
FM (30°-60°)	1439.9	23.4			
FH (60°-80°)	1421.5	23.1			G1/1800
FVH (80°-90°)	18.1	0.3			G1/100
BL (0°-30°)	196.5	3.2	B1/500		
BM (30°-60°)	1439.9	23.4	B2/2500		
BH (60°-80°)	1421.5	23.1	B3/2500		G1/1800
BVH (80°-90°)	18.1	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°	210.8	210.8	210.8	210.8	210.8
2.5°	259.5	242.9	250.5	242.9	259.5
5°	329.9	312.5	297.3	308.3	330.8
7.5°	379.1	353.2	321.1	350.3	376.9
10°	387.4	372.9	371.5	371.2	386.5
12.5°	418.5	408.8	428.3	409.7	419.5
15°	442.8	437.3	446.1	444.2	443.7
17.5°	480.3	443.3	463.2	441.1	479.1
20°	497.0	444.4	478.0	441.8	496.7
22.5°	517.4	472.5	482.5	473.7	515.5
25°	529.1	490.6	494.1	491.0	529.3
27.5°	576.8	530.5	492.5	536.9	585.6
30°	613.2	556.4	531.4	557.1	617.7
32.5°	665.7	595.1	585.4	604.6	674.0
35°	730.8	660.2	605.6	660.5	744.6
37.5°	858.5	719.4	700.2	740.3	868.0
40°	948.5	812.8	771.7	827.8	964.0
42.5°	1086.9	917.6	813.3	925.3	1110.6
45°	1215.7	1044.8	945.9	1053.6	1233.0
47.5°	1351.9	1161.5	1124.4	1172.4	1364.7
50°	1512.8	1319.5	1293.6	1331.9	1518.2
52.5°	1702.7	1531.1	1454.5	1538.2	1704.6
55°	1928.2	1708.6	1691.5	1728.1	1931.1
57.5°	2148.8	1938.7	2048.5	1940.8	2110.5
60°	2306.1	2150.7	2342.0	2096.0	2221.3
62.5°	2316.1	2307.8	2707.5	2215.1	2197.5
65°	2100.3	2244.3	3013.7	2171.8	1994.8
67.5°	1653.2	1885.4	3060.0	1848.8	1602.6
70°	1038.9	1305.5	2705.2	1355.7	1068.3
72.5°	479.1	703.5	2037.1	791.9	506.5
75°	171.6	269.3	1256.8	289.2	179.4
77.5°	97.4	109.1	555.4	109.6	100.8
80°	62.7	68.0	160.4	71.8	61.1
82.5°	35.7	47.5	70.4	50.4	32.8
85°	19.3	30.2	31.1	30.9	19.3
87.5°	6.9	11.9	6.9	13.5	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)