

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: P366863

Luminaire Tested: **MSA-SA1C-727-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366863  
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-727-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: 5650 lumens  
Efficiency: N/A  
Efficacy: 95.8 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

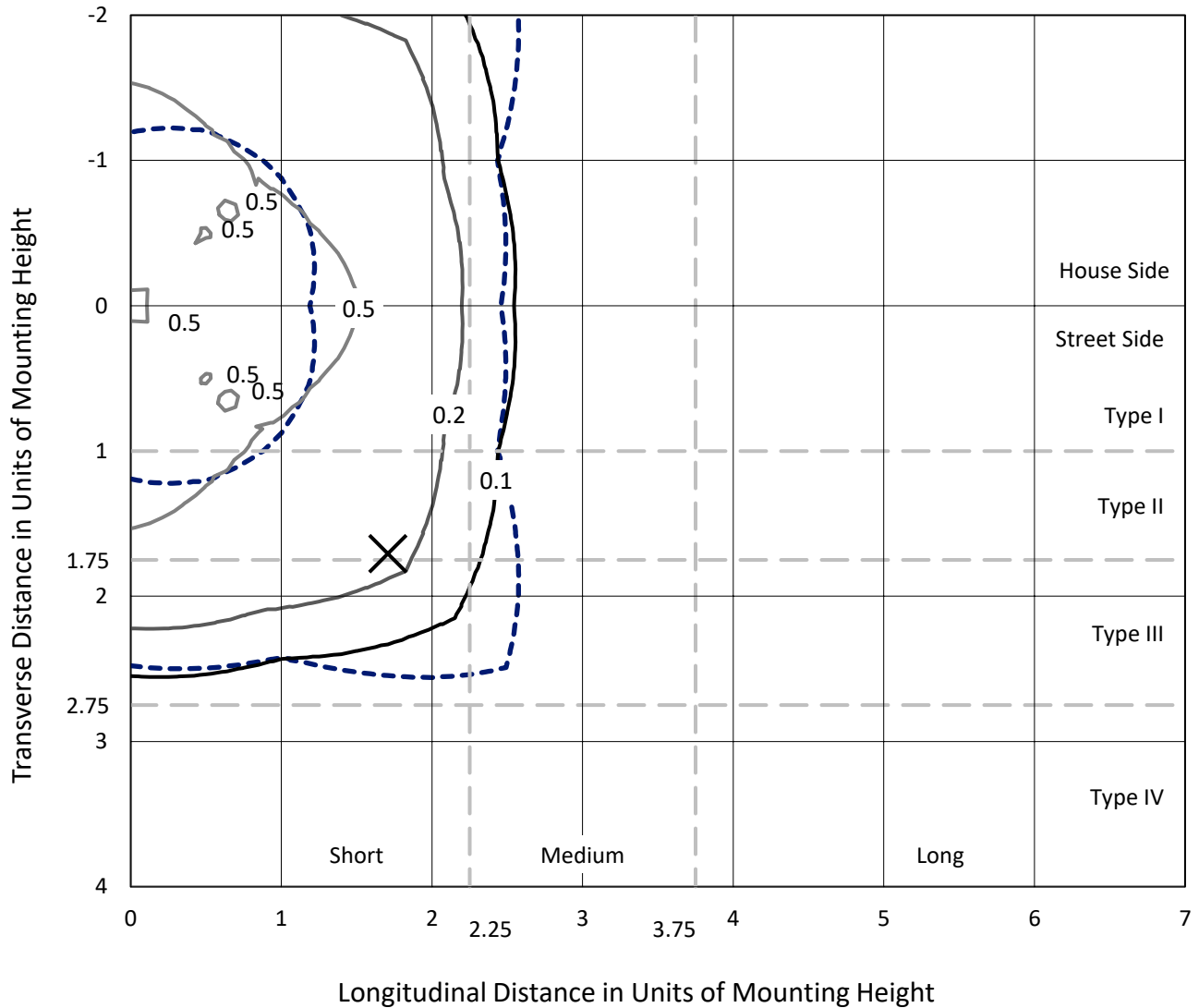
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

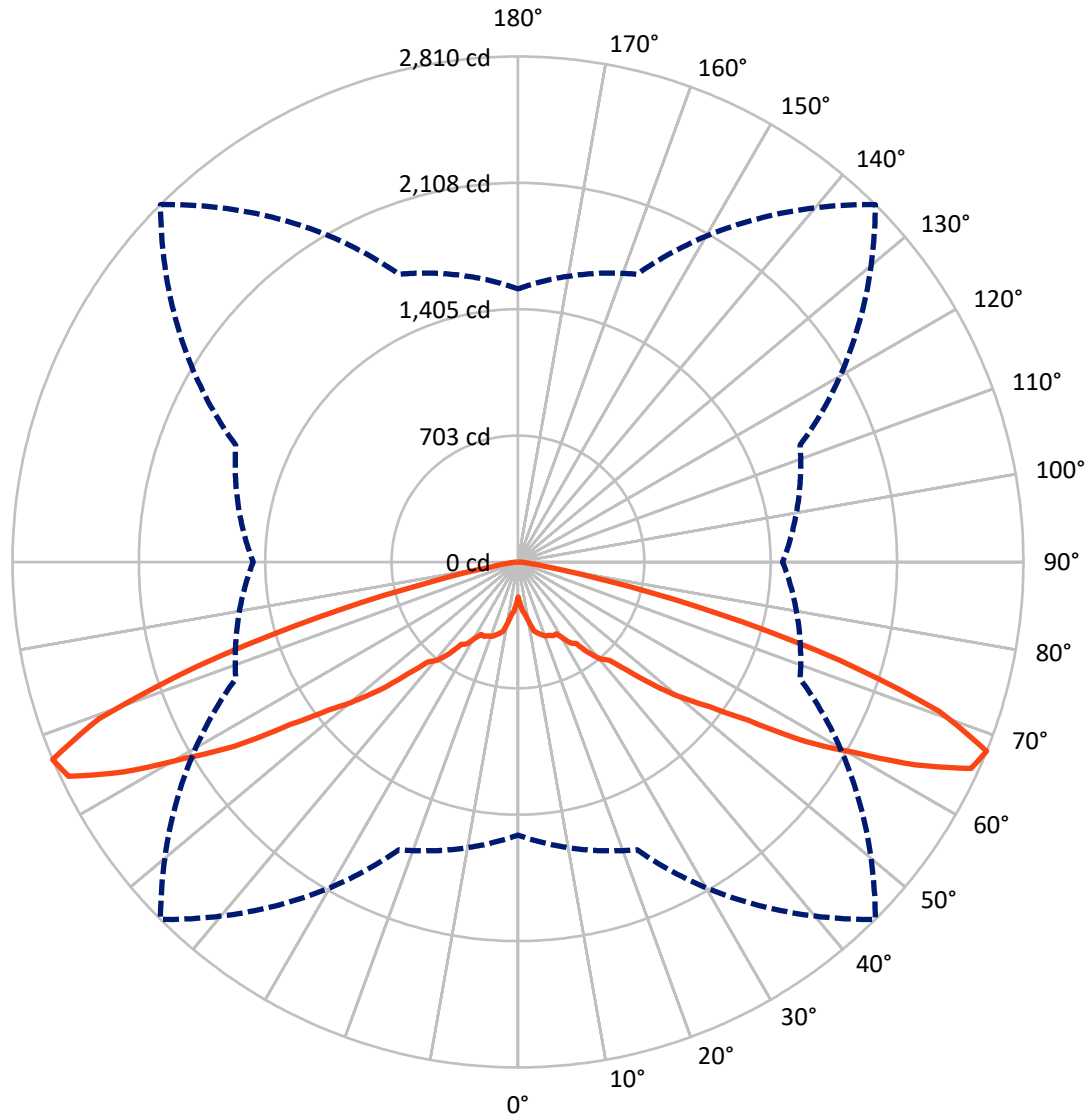
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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	2825.0	0.0	2825.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2825.0	0.0	2825.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5650.0	0.0	5650.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.9	0.5
10°-20°	114.2	2.0
20°-30°	217.8	3.9
30°-40°	398.2	7.0
40°-50°	772.1	13.7
50°-60°	1474.5	26.1
60°-70°	1992.2	35.3
70°-80°	618.7	11.0
80°-90°	33.3	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°	5650.0	100.0
0°-180°	5650.0	100.0

**Coefficient of Utilization**



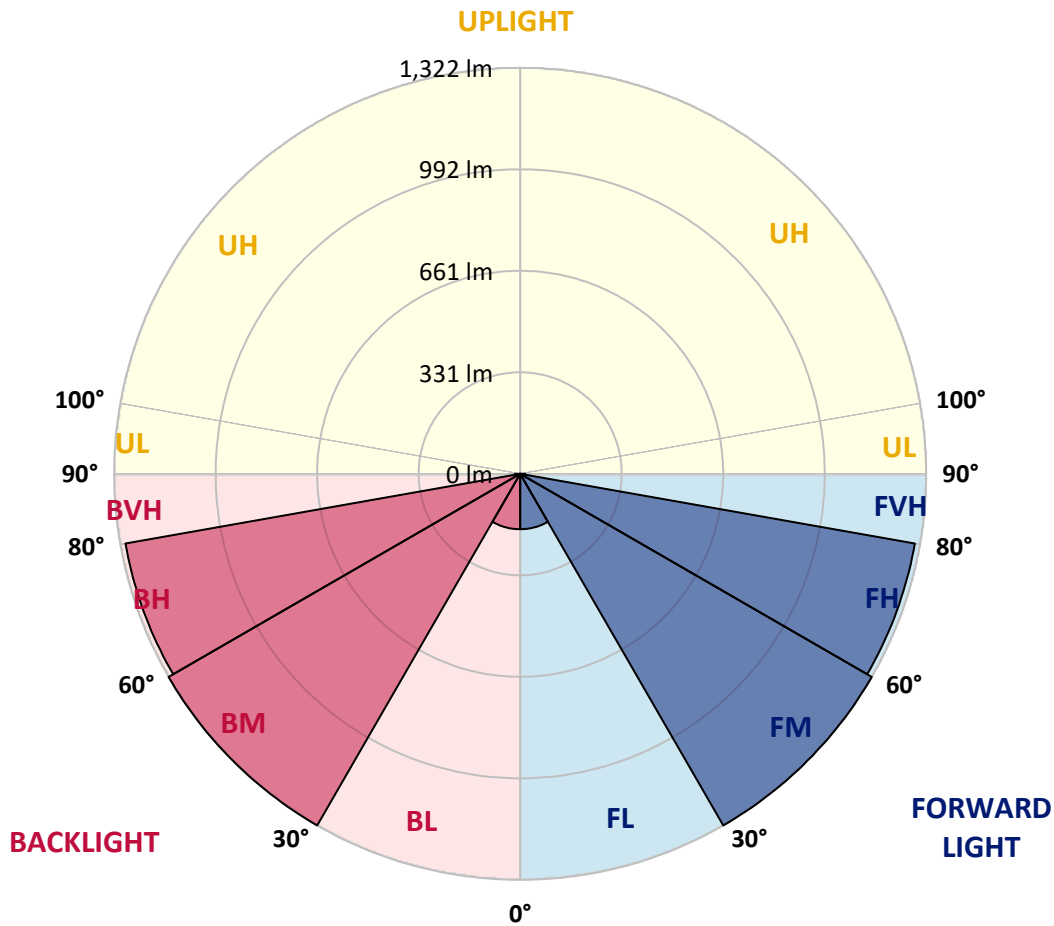
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	180.4	3.2			
FM (30°-60°)	1322.4	23.4			
FH (60°-80°)	1305.5	23.1			G1/1800
FVH (80°-90°)	16.7	0.3			G1/100
BL (0°-30°)	180.4	3.2	B1/500		
BM (30°-60°)	1322.4	23.4	B2/2500		
BH (60°-80°)	1305.5	23.1	B3/2500		G1/1800
BVH (80°-90°)	16.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	193.6	193.6	193.6	193.6	193.6
2.5°	238.4	223.1	230.1	223.1	238.4
5°	303.0	287.0	273.1	283.1	303.8
7.5°	348.2	324.4	294.9	321.7	346.2
10°	355.8	342.5	341.2	340.9	354.9
12.5°	384.4	375.4	393.3	376.3	385.3
15°	406.6	401.6	409.7	408.0	407.5
17.5°	441.1	407.1	425.4	405.1	440.0
20°	456.4	408.2	439.0	405.8	456.2
22.5°	475.2	433.9	443.1	435.0	473.4
25°	485.9	450.5	453.8	451.0	486.1
27.5°	529.8	487.2	452.3	493.1	537.8
30°	563.2	511.0	488.1	511.6	567.3
32.5°	611.4	546.6	537.6	555.3	619.0
35°	671.2	606.4	556.2	606.6	683.9
37.5°	788.4	660.7	643.0	679.9	797.1
40°	871.1	746.5	708.7	760.3	885.3
42.5°	998.2	842.8	746.9	849.8	1020.0
45°	1116.5	959.5	868.7	967.6	1132.4
47.5°	1241.6	1066.7	1032.7	1076.8	1253.3
50°	1389.3	1211.9	1188.1	1223.2	1394.4
52.5°	1563.7	1406.1	1335.9	1412.7	1565.5
55°	1770.9	1569.2	1553.5	1587.1	1773.5
57.5°	1973.4	1780.5	1881.3	1782.4	1938.3
60°	2117.9	1975.2	2150.9	1925.0	2040.0
62.5°	2127.1	2119.5	2486.6	2034.3	2018.2
65°	1928.9	2061.2	2767.8	1994.6	1832.0
67.5°	1518.3	1731.6	2810.3	1698.0	1471.8
70°	954.1	1199.0	2484.4	1245.1	981.2
72.5°	440.0	646.1	1870.9	727.3	465.1
75°	157.6	247.3	1154.2	265.6	164.8
77.5°	89.5	100.2	510.1	100.6	92.5
80°	57.6	62.4	147.3	65.9	56.1
82.5°	32.7	43.7	64.6	46.3	30.1
85°	17.7	27.7	28.6	28.4	17.7
87.5°	6.3	10.9	6.3	12.4	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)