

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: P367127

Luminaire Tested: **MSA-SA2A-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367127
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-SA2A-727-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7160 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

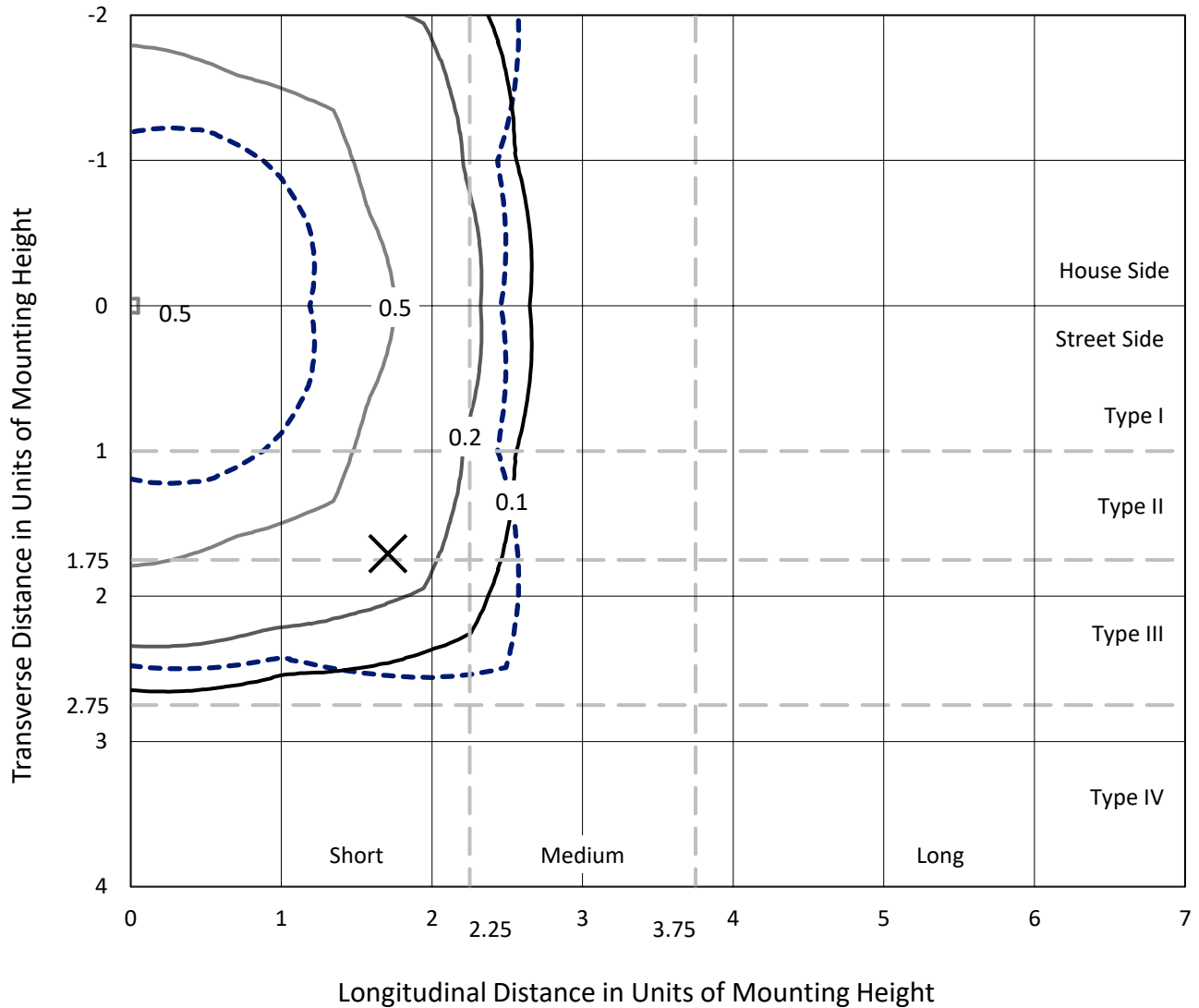
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

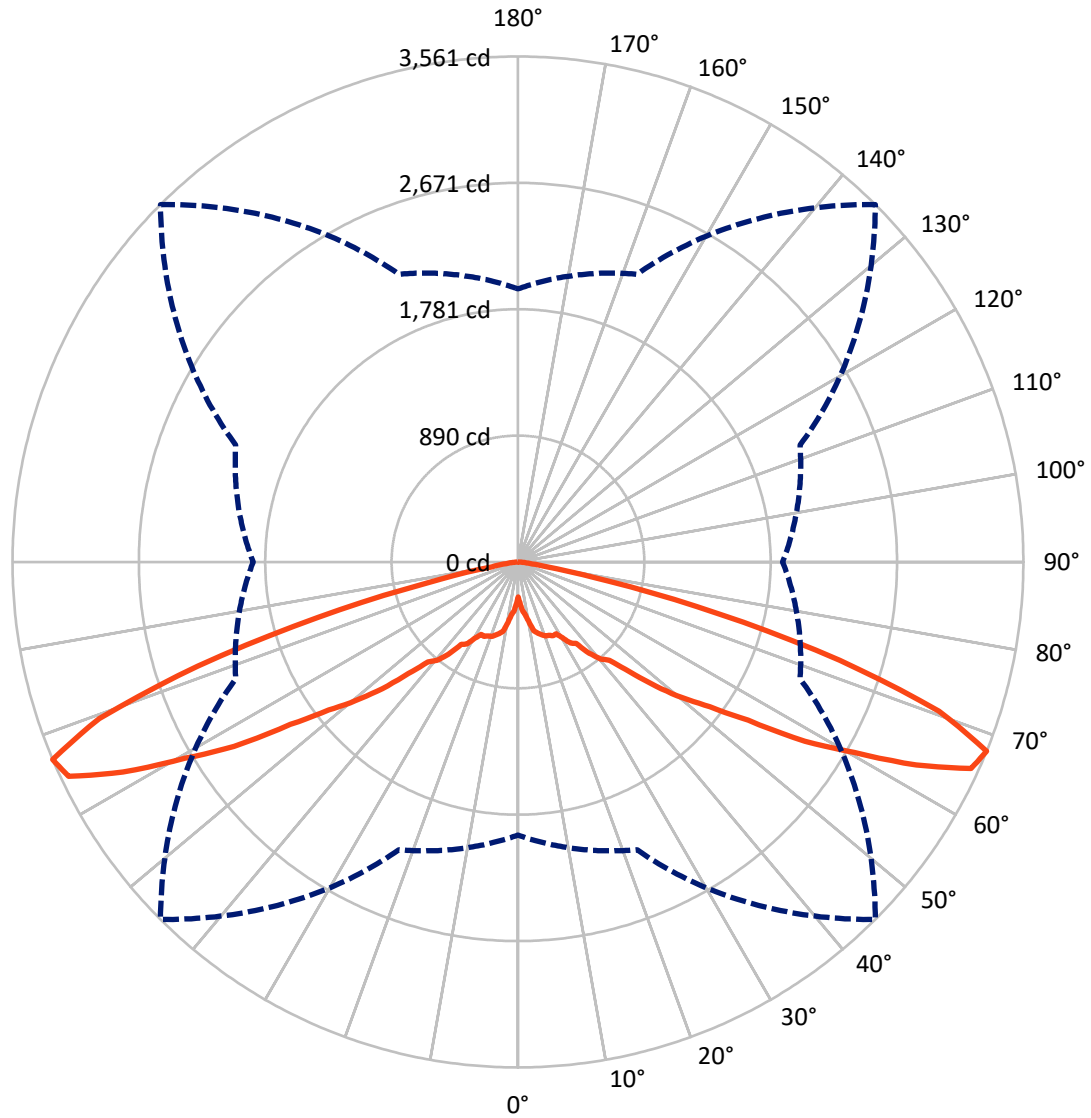
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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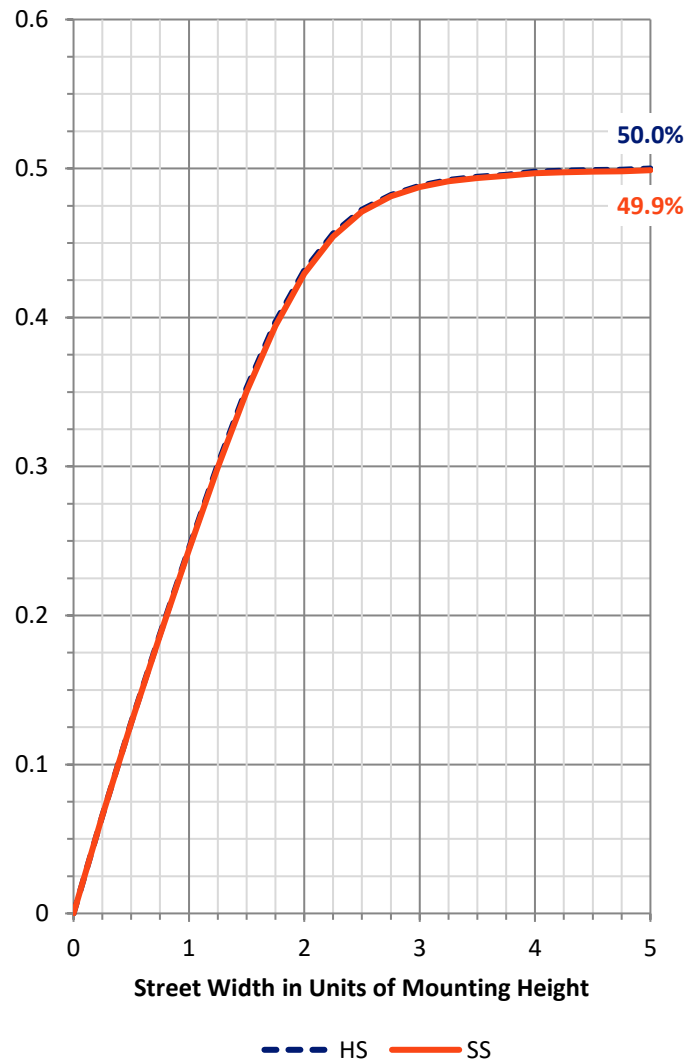
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3580.0	0.0	3580.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3580.0	0.0	3580.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7160.0	0.0	7160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.6	0.5
10°-20°	144.7	2.0
20°-30°	276.0	3.9
30°-40°	504.6	7.0
40°-50°	978.5	13.7
50°-60°	1868.6	26.1
60°-70°	2524.7	35.3
70°-80°	784.1	11.0
80°-90°	42.2	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°	7160.0	100.0
0°-180°	7160.0	100.0



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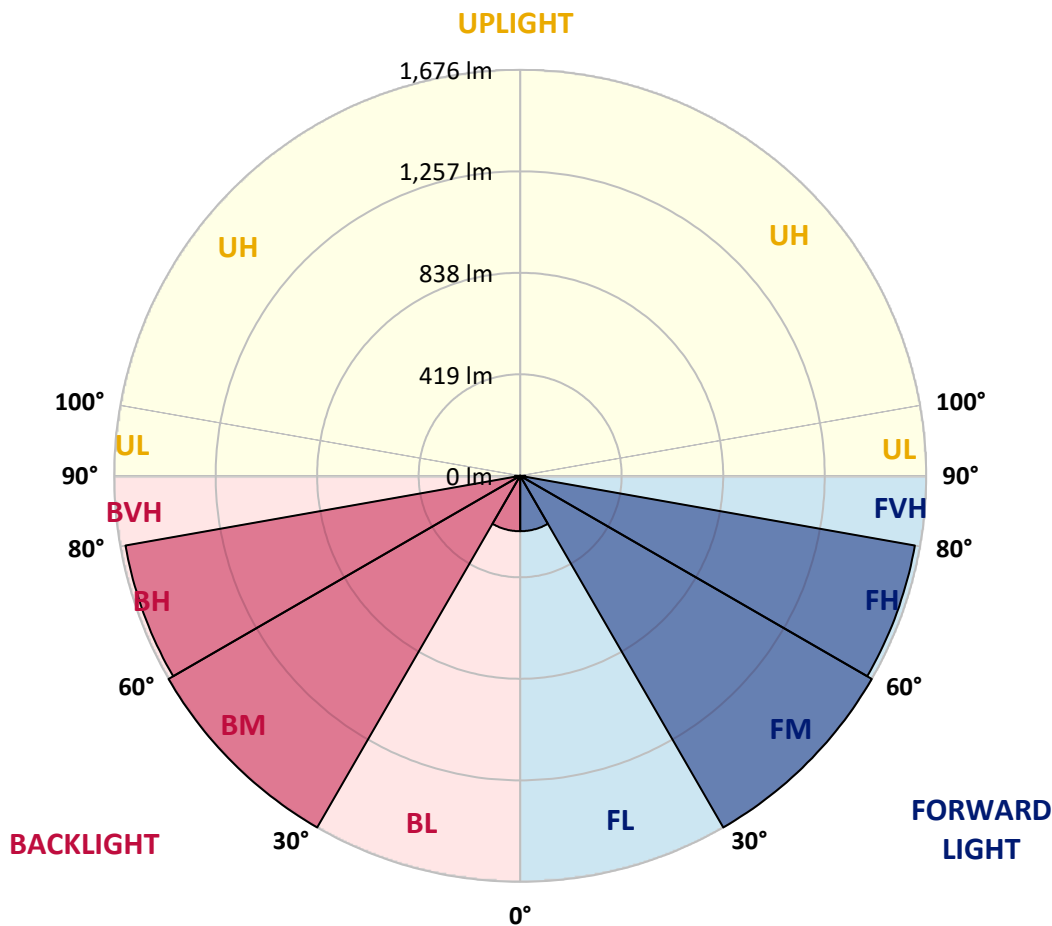
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.6	3.2			
FM (30°-60°)	1675.9	23.4			
FH (60°-80°)	1654.4	23.1			G1/1800
FVH (80°-90°)	21.1	0.3			G1/100
BL (0°-30°)	228.6	3.2	B1/500		
BM (30°-60°)	1675.9	23.4	B2/2500		
BH (60°-80°)	1654.4	23.1	B3/2500		G1/1800
BVH (80°-90°)	21.1	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°	245.4	245.4	245.4	245.4	245.4
2.5°	302.1	282.7	291.5	282.7	302.1
5°	383.9	363.7	346.0	358.8	385.0
7.5°	441.2	411.0	373.7	407.7	438.7
10°	450.9	434.0	432.3	432.1	449.8
12.5°	487.1	475.8	498.5	476.9	488.2
15°	515.3	509.0	519.2	517.0	516.4
17.5°	559.0	515.9	539.1	513.4	557.7
20°	578.4	517.3	556.3	514.2	578.1
22.5°	602.2	549.9	561.5	551.3	600.0
25°	615.7	570.9	575.1	571.5	616.0
27.5°	671.3	617.4	573.1	624.9	681.6
30°	713.7	647.6	618.5	648.4	718.9
32.5°	774.8	692.6	681.3	703.7	784.5
35°	850.6	768.4	704.8	768.7	866.6
37.5°	999.1	837.3	814.9	861.6	1010.2
40°	1104.0	946.0	898.2	963.4	1121.9
42.5°	1265.0	1068.0	946.6	1076.9	1292.6
45°	1414.9	1216.0	1100.9	1226.2	1435.1
47.5°	1573.4	1351.8	1308.7	1364.5	1588.3
50°	1760.6	1535.8	1505.6	1550.1	1767.0
52.5°	1981.7	1781.9	1692.9	1790.2	1983.9
55°	2244.2	1988.6	1968.7	2011.3	2247.5
57.5°	2500.9	2256.3	2384.1	2258.8	2456.3
60°	2684.0	2503.1	2725.7	2439.4	2585.2
62.5°	2695.6	2685.9	3151.2	2578.0	2557.6
65°	2444.4	2612.1	3507.4	2527.7	2321.6
67.5°	1924.1	2194.4	3561.4	2151.8	1865.2
70°	1209.1	1519.4	3148.4	1577.8	1243.4
72.5°	557.7	818.8	2370.8	921.7	589.5
75°	199.7	313.4	1462.7	336.6	208.8
77.5°	113.4	127.0	646.4	127.5	117.3
80°	73.0	79.1	186.7	83.5	71.1
82.5°	41.5	55.3	81.9	58.6	38.2
85°	22.4	35.1	36.2	36.0	22.4
87.5°	8.0	13.8	8.0	15.8	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)