

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: P367259

Luminaire Tested: **MSA-SA2B-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367259
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-SA2B-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: 8973 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 85
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

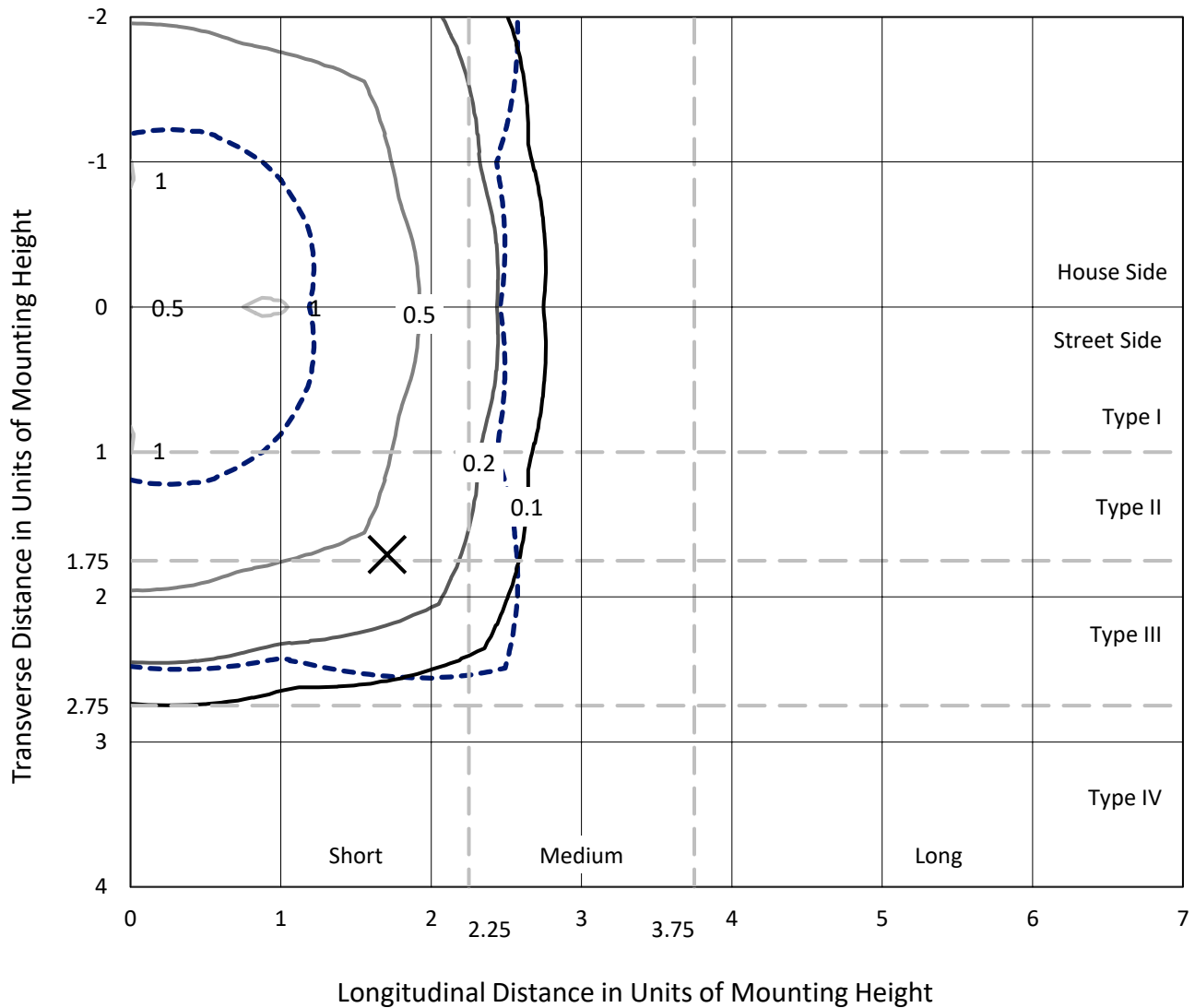


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

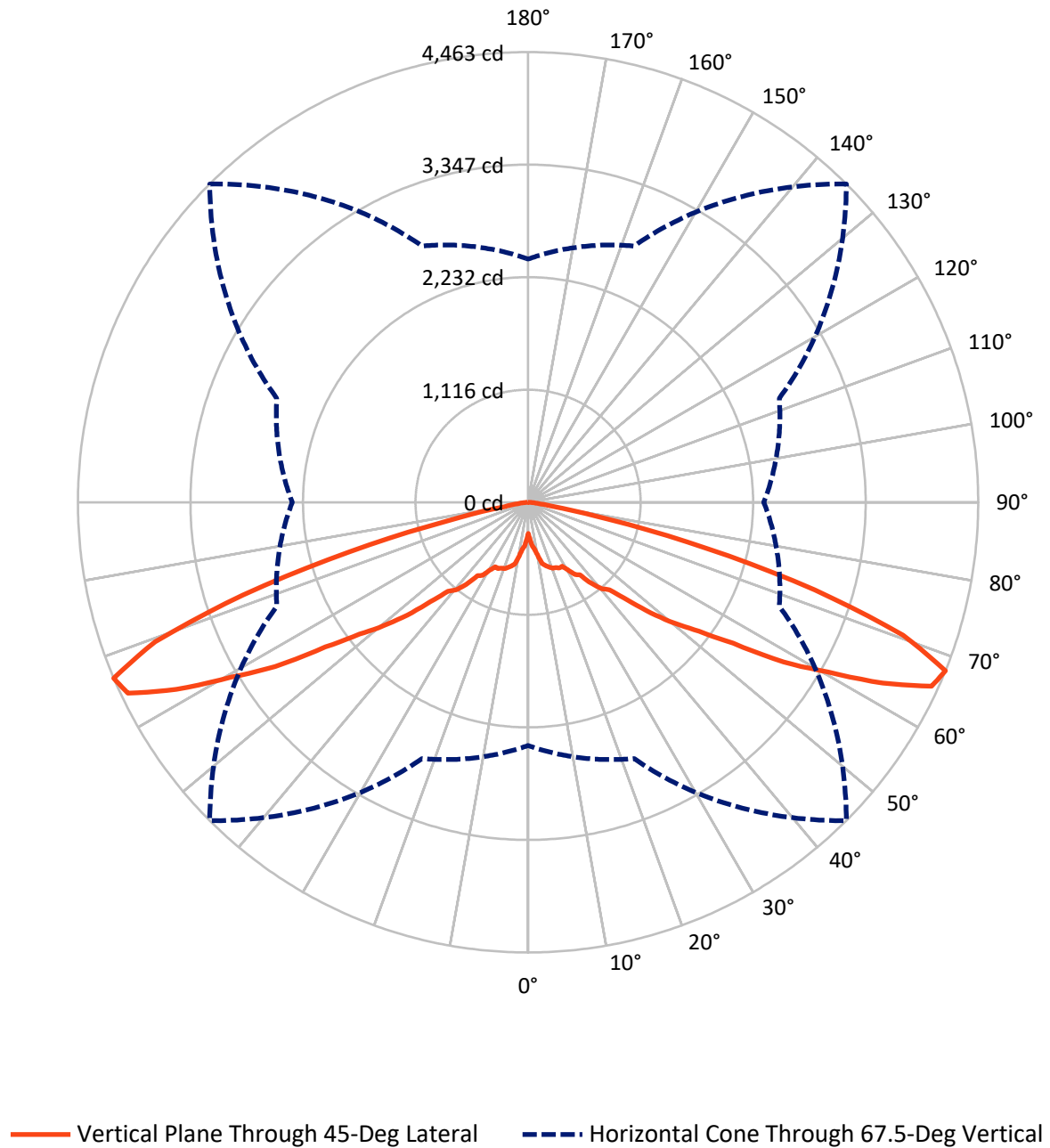


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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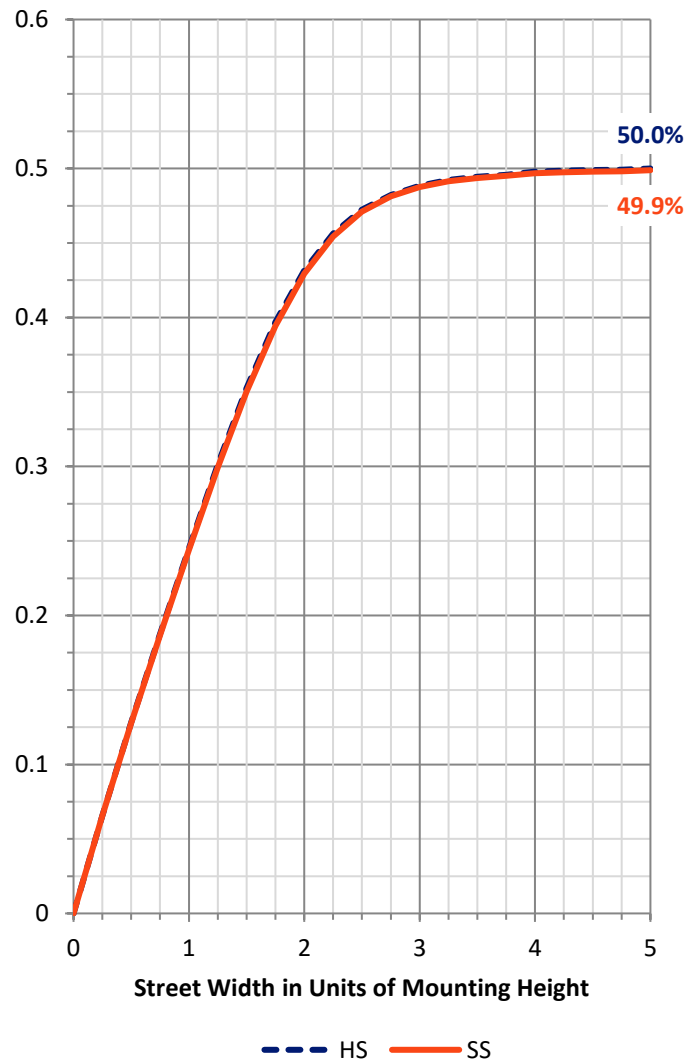
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4486.5	0.0	4486.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4486.5	0.0	4486.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8973.0	0.0	8973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	0.5
10°-20°	181.3	2.0
20°-30°	345.9	3.9
30°-40°	632.4	7.0
40°-50°	1226.3	13.7
50°-60°	2341.7	26.1
60°-70°	3163.9	35.3
70°-80°	982.6	11.0
80°-90°	52.9	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°	8973.0	100.0
0°-180°	8973.0	100.0

Coefficient of Utilization



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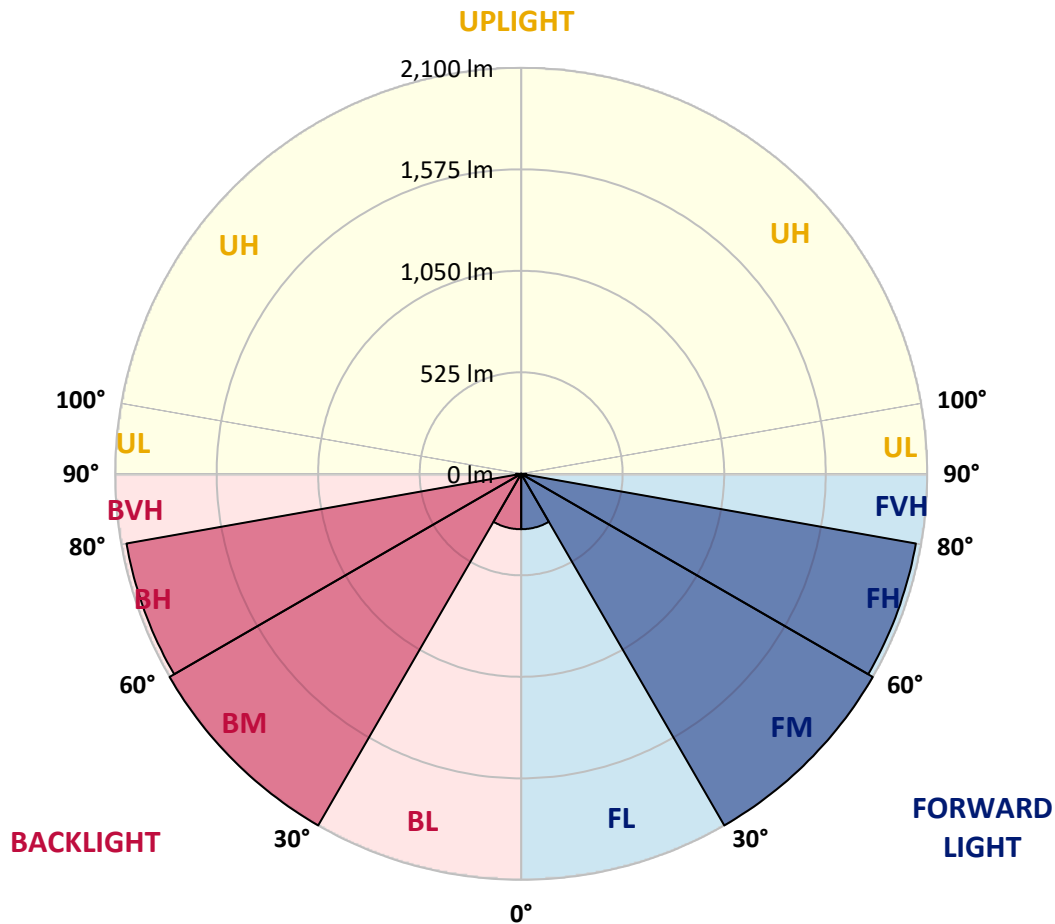
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	286.5	3.2			
FM	(30°-60°)	2100.2	23.4			
FH	(60°-80°)	2073.3	23.1			G2/5000
FVH	(80°-90°)	26.5	0.3			G1/100
BL	(0°-30°)	286.5	3.2	B1/500		
BM	(30°-60°)	2100.2	23.4	B2/2500		
BH	(60°-80°)	2073.3	23.1	B3/2500		G2/5000
BVH	(80°-90°)	26.5	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	307.5	307.5	307.5	307.5	307.5
2.5°	378.5	354.3	365.4	354.3	378.5
5°	481.2	455.9	433.7	449.6	482.5
7.5°	552.9	515.1	468.3	511.0	549.8
10°	565.0	543.9	541.8	541.5	563.7
12.5°	610.5	596.2	624.7	597.6	611.8
15°	645.8	637.8	650.7	647.9	647.2
17.5°	700.6	646.5	675.6	643.4	698.9
20°	724.9	648.2	697.1	644.4	724.5
22.5°	754.7	689.1	703.7	690.9	751.9
25°	771.7	715.5	720.7	716.2	772.0
27.5°	841.3	773.7	718.3	783.1	854.2
30°	894.4	811.5	775.1	812.6	901.0
32.5°	971.0	868.0	853.8	881.9	983.1
35°	1066.0	963.0	883.3	963.4	1086.1
37.5°	1252.1	1049.3	1021.2	1079.8	1266.0
40°	1383.5	1185.6	1125.6	1207.4	1406.0
42.5°	1585.3	1338.4	1186.3	1349.5	1619.9
45°	1773.1	1523.9	1379.7	1536.7	1798.4
47.5°	1971.8	1694.1	1640.0	1710.0	1990.5
50°	2206.5	1924.6	1886.8	1942.7	2214.4
52.5°	2483.4	2233.1	2121.5	2243.5	2486.2
55°	2812.4	2492.1	2467.1	2520.5	2816.6
57.5°	3134.1	2827.7	2987.8	2830.8	3078.3
60°	3363.6	3136.9	3415.9	3057.1	3239.8
62.5°	3378.1	3366.0	3949.1	3230.8	3205.2
65°	3063.4	3273.5	4395.6	3167.7	2909.5
67.5°	2411.3	2750.0	4463.2	2696.6	2337.5
70°	1515.2	1904.2	3945.6	1977.3	1558.2
72.5°	698.9	1026.1	2971.2	1155.1	738.7
75°	250.3	392.8	1833.1	421.9	261.7
77.5°	142.1	159.1	810.1	159.8	147.0
80°	91.5	99.1	234.0	104.7	89.1
82.5°	52.0	69.3	102.6	73.5	47.8
85°	28.1	44.0	45.4	45.1	28.1
87.5°	10.1	17.3	10.1	19.8	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)