

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: P367523

Luminaire Tested: **MSA-SA2D-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367523
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-SA2D-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: 12149 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

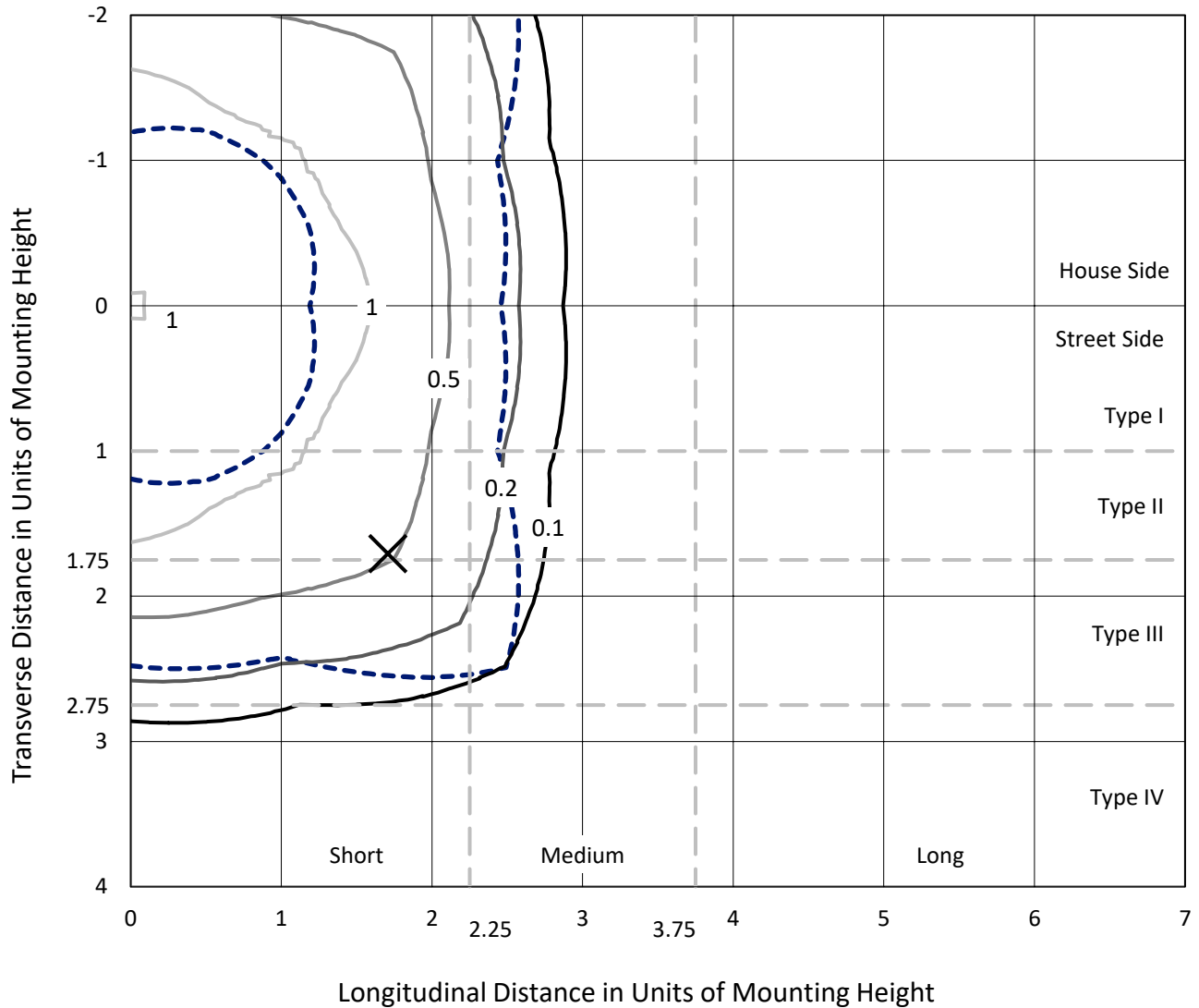
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

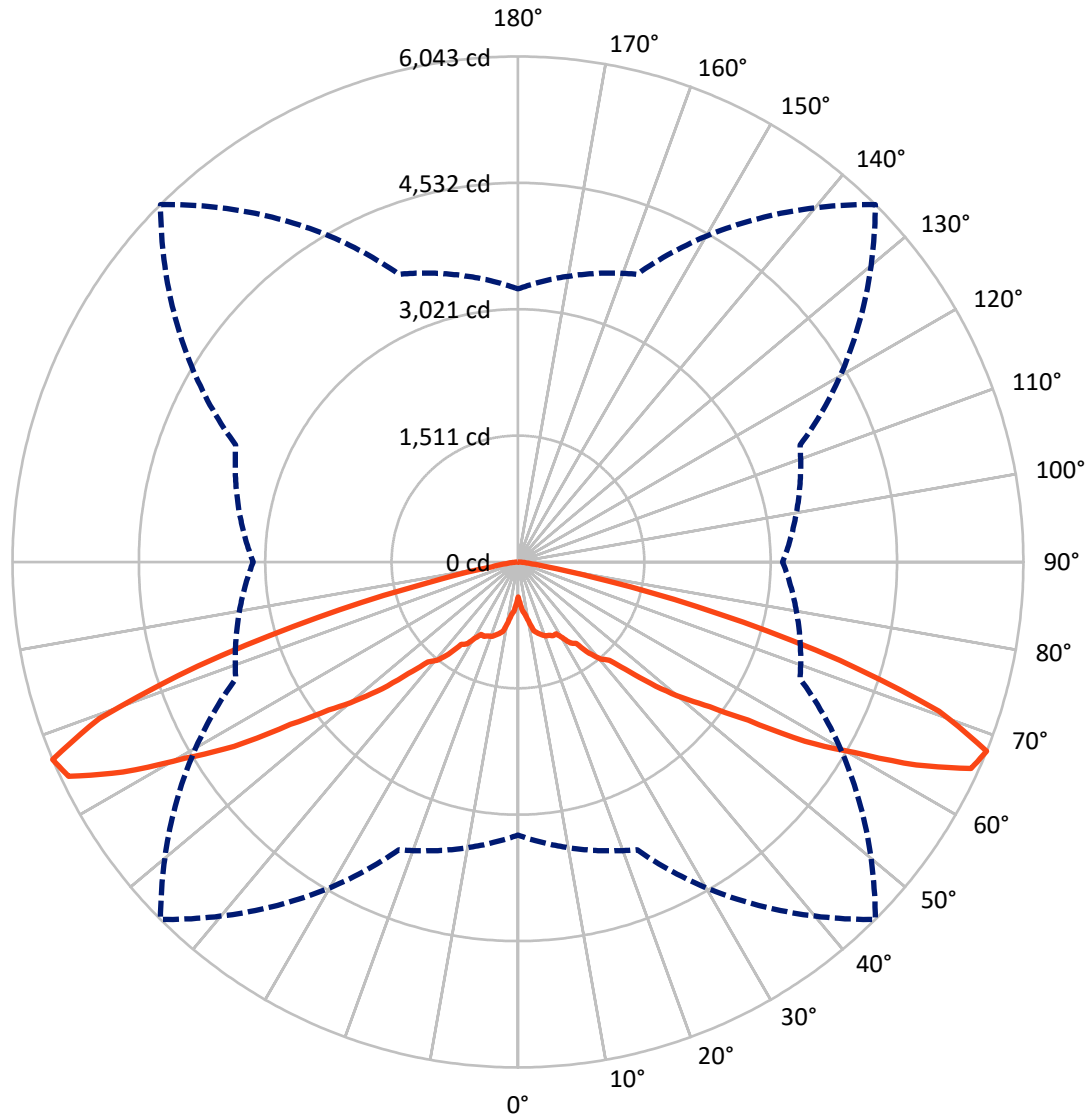
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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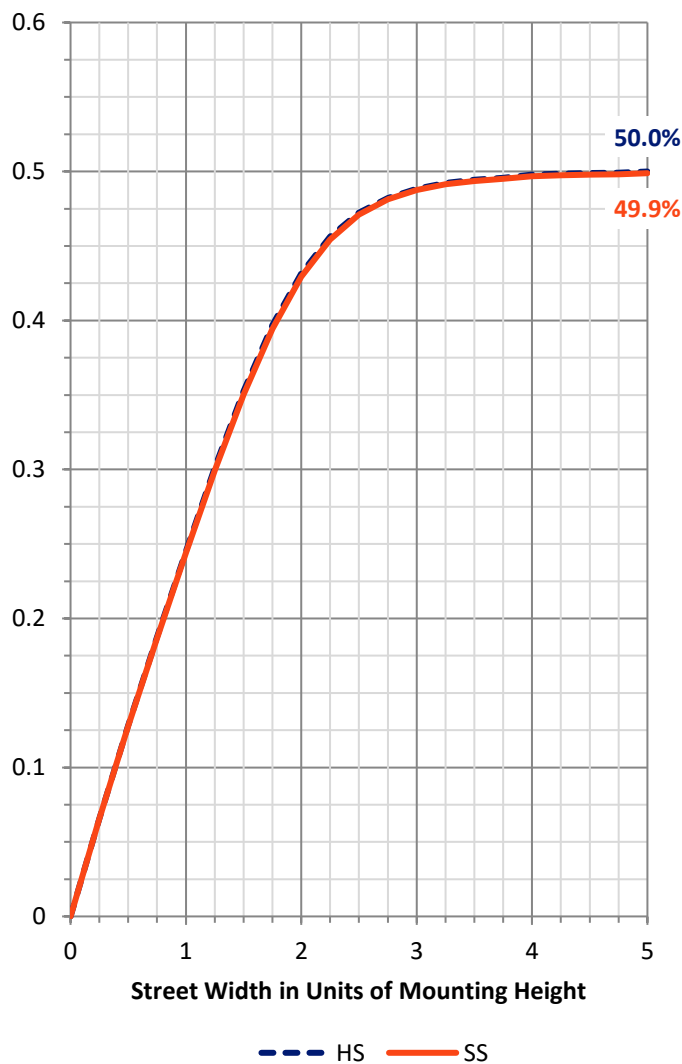
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6074.5	0.0	6074.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6074.5	0.0	6074.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12149.0	0.0	12149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	0.5
10°-20°	245.5	2.0
20°-30°	468.4	3.9
30°-40°	856.3	7.0
40°-50°	1660.3	13.7
50°-60°	3170.6	26.1
60°-70°	4283.8	35.3
70°-80°	1330.4	11.0
80°-90°	71.7	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°	12149.0	100.0
0°-180°	12149.0	100.0

Coefficient of Utilization



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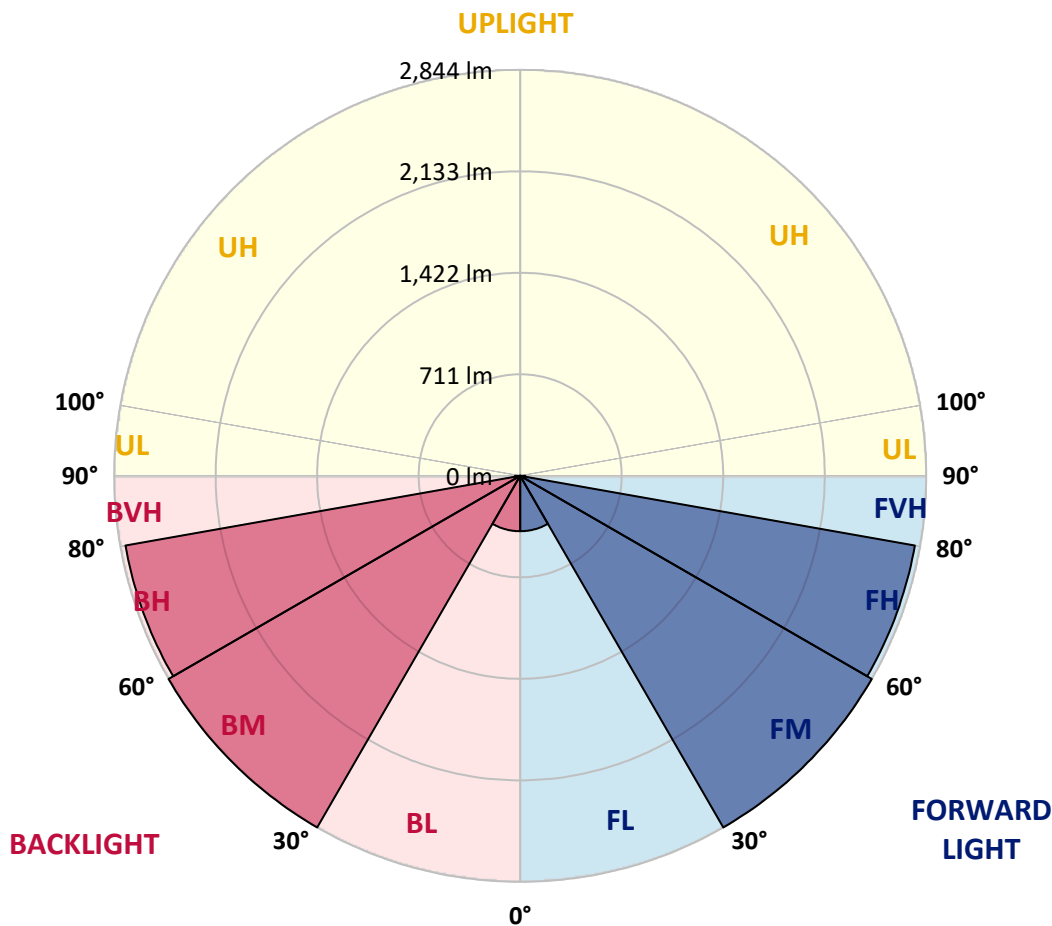
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	388.0	3.2			
FM (30°-60°)	2843.6	23.4			
FH (60°-80°)	2807.1	23.1			G2/5000
FVH (80°-90°)	35.8	0.3			G1/100
BL (0°-30°)	388.0	3.2	B1/500		
BM (30°-60°)	2843.6	23.4	B3/5000		
BH (60°-80°)	2807.1	23.1	B4/5000		G2/5000
BVH (80°-90°)	35.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.3	416.3	416.3	416.3	416.3
2.5°	512.5	479.7	494.7	479.7	512.5
5°	651.5	617.2	587.2	608.8	653.3
7.5°	748.6	697.5	634.1	691.8	744.4
10°	765.0	736.4	733.6	733.1	763.2
12.5°	826.5	807.3	845.8	809.2	828.4
15°	874.4	863.6	881.0	877.2	876.3
17.5°	948.6	875.3	914.8	871.1	946.2
20°	981.4	877.7	943.9	872.5	980.9
22.5°	1021.8	933.1	952.8	935.4	1018.0
25°	1044.8	968.7	975.8	969.7	1045.2
27.5°	1139.1	1047.6	972.5	1060.3	1156.5
30°	1210.9	1098.8	1049.5	1100.2	1219.8
32.5°	1314.7	1175.3	1156.0	1194.0	1331.1
35°	1443.3	1303.9	1195.9	1304.3	1470.5
37.5°	1695.3	1420.7	1382.7	1462.0	1714.1
40°	1873.2	1605.2	1524.0	1634.8	1903.7
42.5°	2146.4	1812.2	1606.1	1827.2	2193.3
45°	2400.7	2063.3	1868.0	2080.6	2435.0
47.5°	2669.7	2293.7	2220.5	2315.3	2695.0
50°	2987.4	2605.8	2554.7	2630.3	2998.2
52.5°	3362.4	3023.6	2872.4	3037.7	3366.2
55°	3807.9	3374.2	3340.4	3412.7	3813.5
57.5°	4243.4	3828.5	4045.4	3832.7	4167.9
60°	4554.1	4247.2	4625.0	4139.2	4386.6
62.5°	4573.8	4557.4	5346.9	4374.4	4339.6
65°	4147.7	4432.1	5951.4	4288.9	3939.3
67.5°	3264.8	3723.4	6042.9	3651.1	3164.8
70°	2051.5	2578.2	5342.2	2677.2	2109.7
72.5°	946.2	1389.3	4022.8	1563.9	1000.2
75°	338.9	531.8	2481.9	571.2	354.4
77.5°	192.4	215.4	1096.9	216.4	199.0
80°	123.9	134.2	316.8	141.7	120.6
82.5°	70.4	93.9	138.9	99.5	64.8
85°	38.0	59.6	61.5	61.0	38.0
87.5°	13.6	23.5	13.6	26.8	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)