

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: P367633

Luminaire Tested: **MSA-SA2D-830-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367633
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-830-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: 11544 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

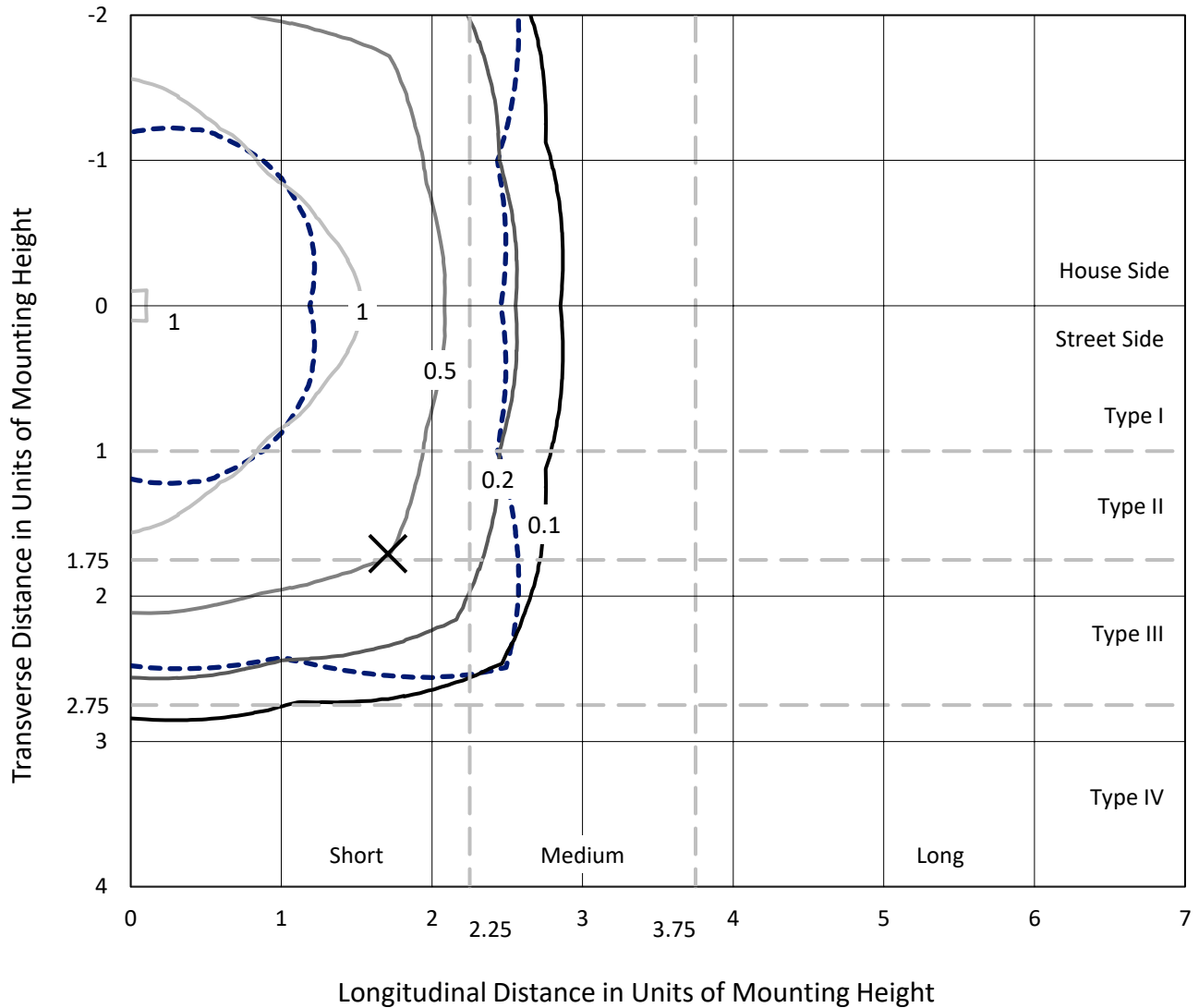
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

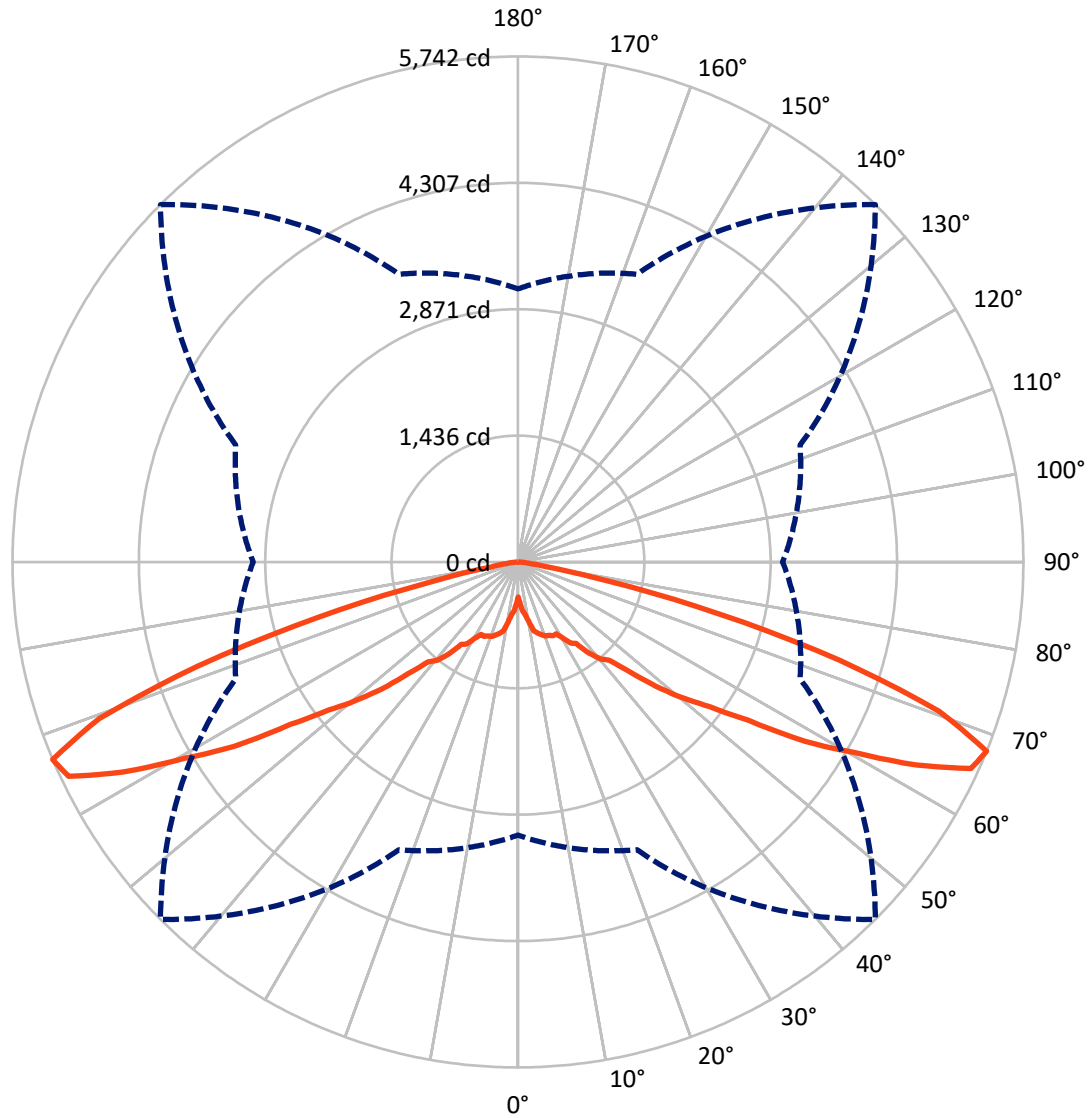
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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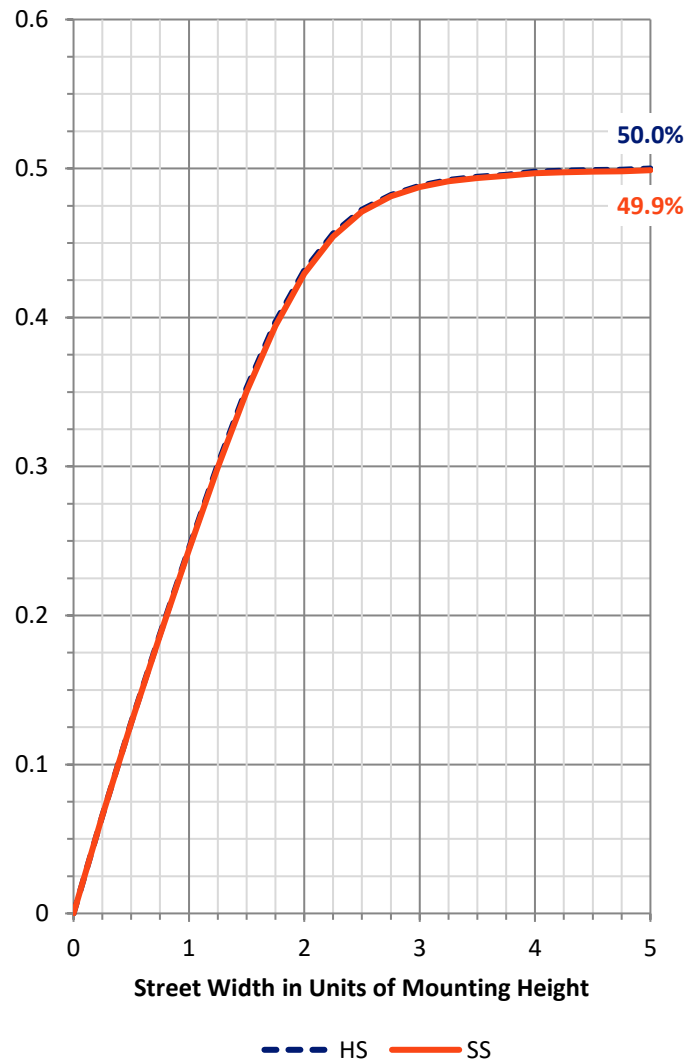
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5772.0	0.0	5772.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5772.0	0.0	5772.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11544.0	0.0	11544.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	0.5
10°-20°	233.2	2.0
20°-30°	445.0	3.9
30°-40°	813.7	7.0
40°-50°	1577.6	13.7
50°-60°	3012.7	26.1
60°-70°	4070.5	35.3
70°-80°	1264.2	11.0
80°-90°	68.1	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°	11544.0	100.0
0°-180°	11544.0	100.0



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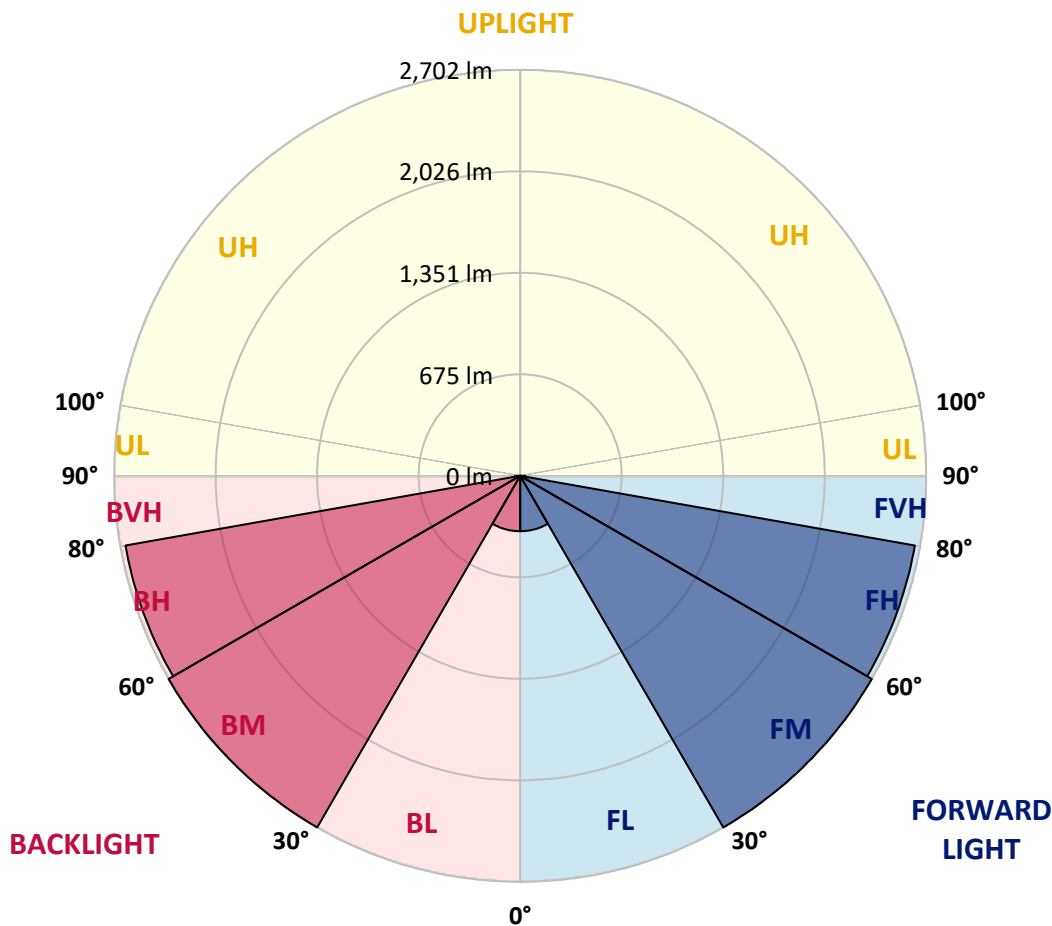
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.6	3.2			
FM (30°-60°)	2702.0	23.4			
FH (60°-80°)	2667.3	23.1			G2/5000
FVH (80°-90°)	34.0	0.3			G1/100
BL (0°-30°)	368.6	3.2	B1/500		
BM (30°-60°)	2702.0	23.4	B3/5000		
BH (60°-80°)	2667.3	23.1	B4/5000		G2/5000
BVH (80°-90°)	34.0	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°	395.6	395.6	395.6	395.6	395.6
2.5°	487.0	455.8	470.1	455.8	487.0
5°	619.0	586.5	557.9	578.4	620.8
7.5°	711.3	662.7	602.5	657.4	707.3
10°	726.9	699.7	697.1	696.6	725.2
12.5°	785.4	767.1	803.7	768.9	787.2
15°	830.9	820.6	837.1	833.5	832.6
17.5°	901.3	831.8	869.2	827.7	899.1
20°	932.5	834.0	896.9	829.1	932.1
22.5°	970.9	886.6	905.3	888.8	967.3
25°	992.8	920.5	927.2	921.4	993.2
27.5°	1082.4	995.4	924.1	1007.5	1098.9
30°	1150.6	1044.0	997.2	1045.4	1159.1
32.5°	1249.2	1116.7	1098.4	1134.6	1264.8
35°	1371.4	1238.9	1136.4	1239.4	1397.3
37.5°	1610.9	1350.0	1313.9	1389.2	1628.7
40°	1779.9	1525.3	1448.1	1553.3	1808.9
42.5°	2039.5	1721.9	1526.1	1736.2	2084.1
45°	2281.2	1960.5	1775.0	1977.0	2313.7
47.5°	2536.7	2179.5	2109.9	2200.0	2560.8
50°	2838.7	2476.1	2427.5	2499.3	2848.9
52.5°	3195.0	2873.0	2729.4	2886.4	3198.6
55°	3618.2	3206.2	3174.0	3242.7	3623.6
57.5°	4032.1	3637.9	3843.9	3641.9	3960.3
60°	4327.3	4035.7	4394.7	3933.1	4168.1
62.5°	4346.1	4330.5	5080.6	4156.5	4123.5
65°	3941.1	4211.4	5655.0	4075.4	3743.1
67.5°	3102.2	3538.0	5742.0	3469.3	3007.2
70°	1949.4	2449.8	5076.1	2543.9	2004.7
72.5°	899.1	1320.1	3822.5	1486.0	950.4
75°	322.0	505.3	2358.3	542.8	336.7
77.5°	182.9	204.7	1042.3	205.6	189.1
80°	117.7	127.6	301.0	134.7	114.6
82.5°	66.9	89.2	132.0	94.5	61.5
85°	36.1	56.6	58.4	58.0	36.1
87.5°	12.9	22.3	12.9	25.4	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)