

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: P366973

Luminaire Tested: **MSA-SA1C-830-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366973
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-830-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: 5368 lumens
Efficiency: N/A
Efficacy: 91.0 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

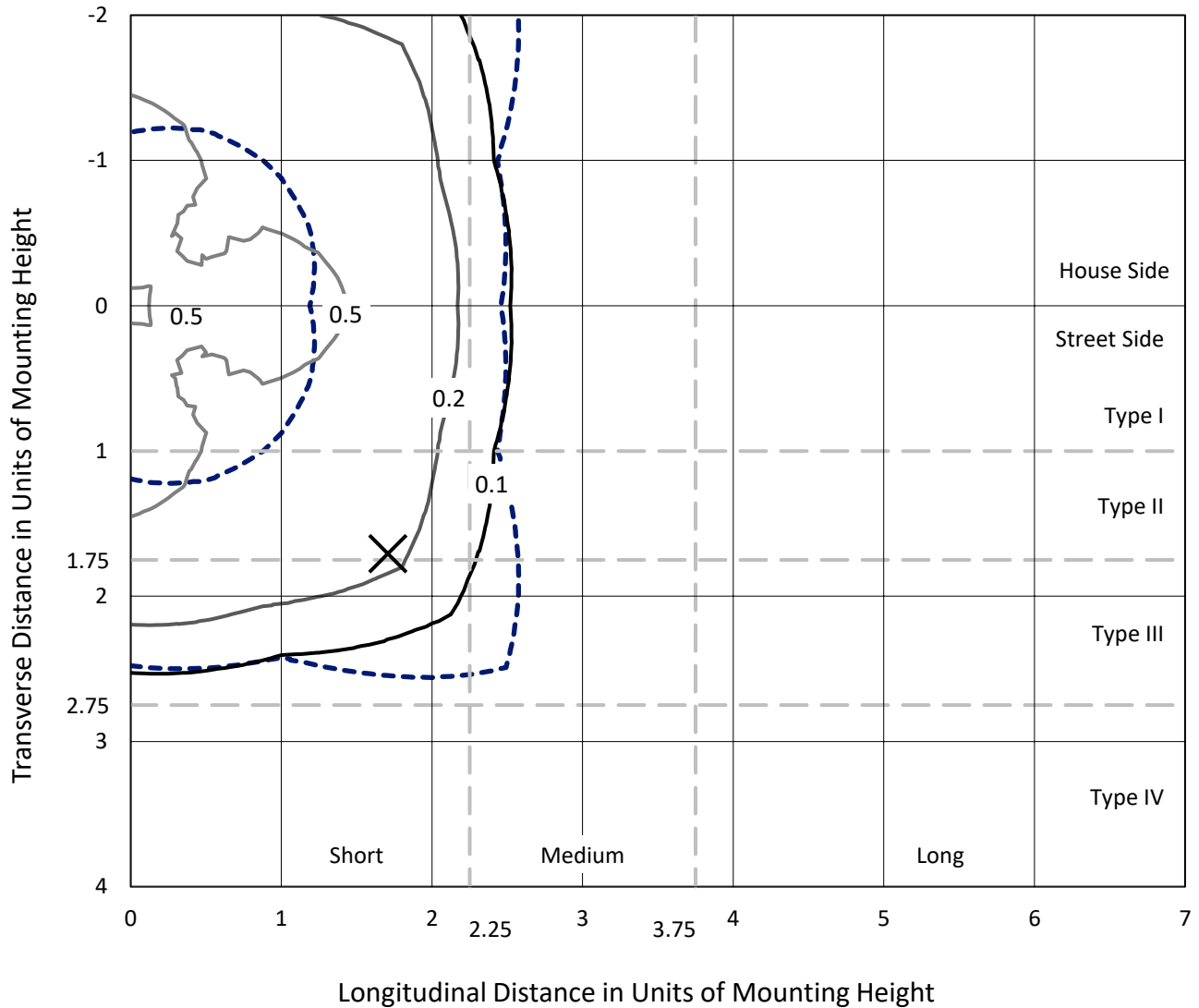
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

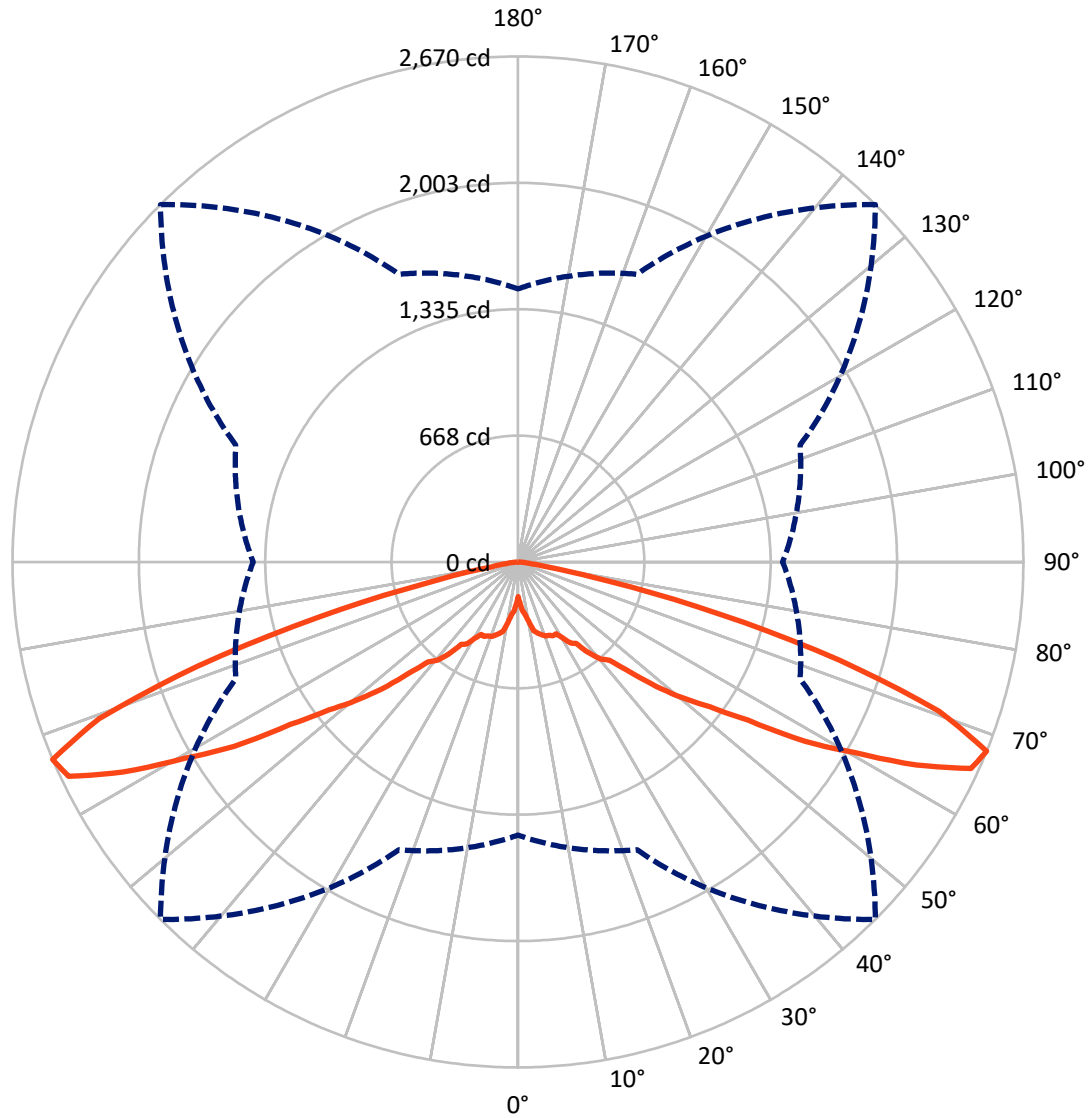
✕ Max cd
 - - - 1/2 Max cd



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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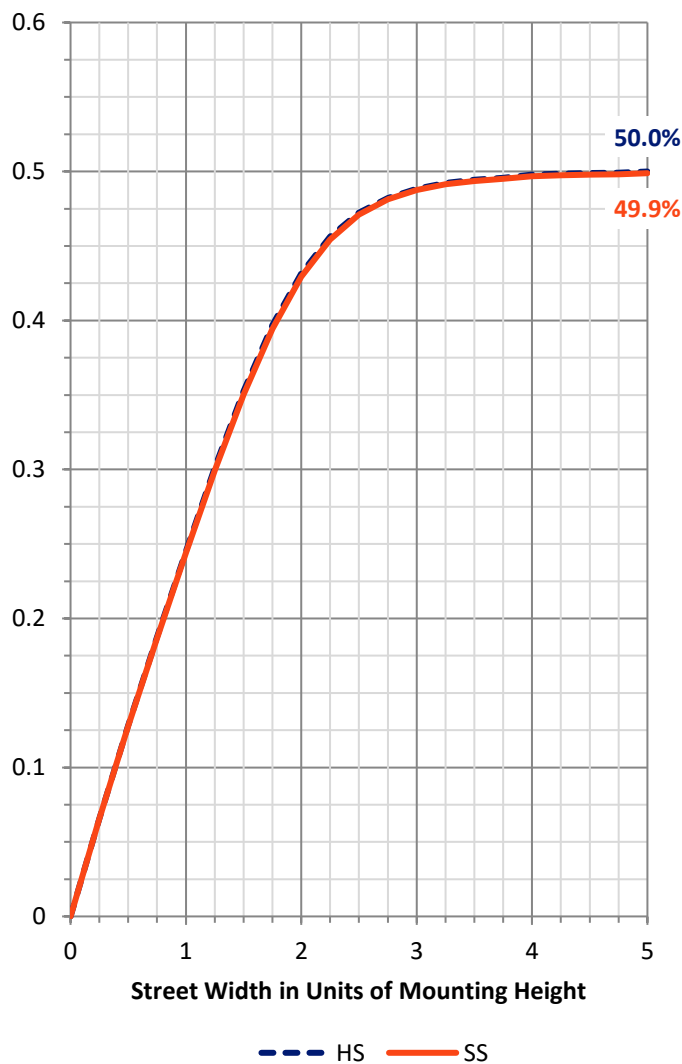
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2684.0	0.0	2684.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2684.0	0.0	2684.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5368.0	0.0	5368.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	0.5
10°-20°	108.5	2.0
20°-30°	206.9	3.9
30°-40°	378.3	7.0
40°-50°	733.6	13.7
50°-60°	1400.9	26.1
60°-70°	1892.8	35.3
70°-80°	587.8	11.0
80°-90°	31.7	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°	5368.0	100.0
0°-180°	5368.0	100.0

Coefficient of Utilization



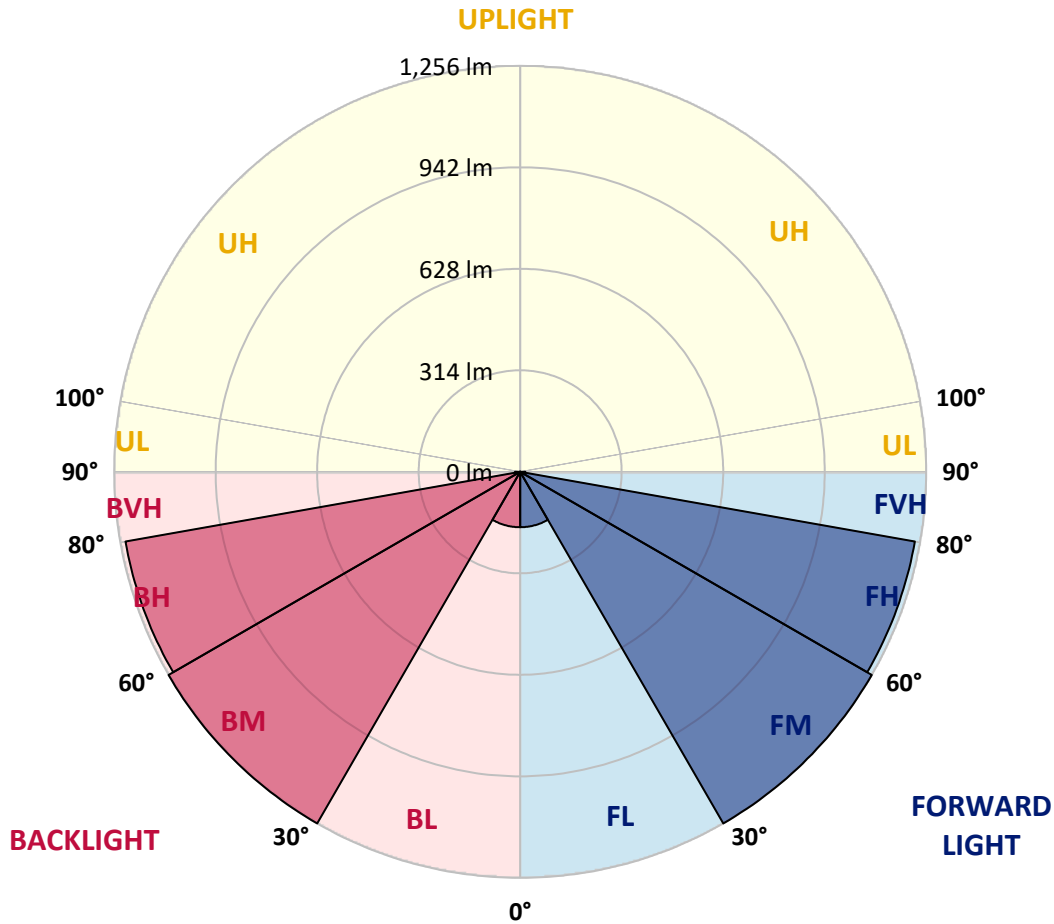
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	171.4	3.2			
FM (30°-60°)	1256.4	23.4			
FH (60°-80°)	1240.3	23.1			G1/1800
FVH (80°-90°)	15.8	0.3			G1/100
BL (0°-30°)	171.4	3.2	B1/500		
BM (30°-60°)	1256.4	23.4	B2/2500		
BH (60°-80°)	1240.3	23.1	B3/2500		G1/1800
BVH (80°-90°)	15.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	183.9	183.9	183.9	183.9	183.9
2.5°	226.5	211.9	218.6	211.9	226.5
5°	287.8	272.7	259.4	269.0	288.7
7.5°	330.8	308.2	280.2	305.7	328.9
10°	338.0	325.4	324.1	323.9	337.2
12.5°	365.2	356.7	373.7	357.5	366.0
15°	386.4	381.6	389.3	387.6	387.2
17.5°	419.1	386.8	404.2	384.9	418.1
20°	433.6	387.8	417.0	385.5	433.4
22.5°	451.5	412.3	421.0	413.3	449.8
25°	461.6	428.0	431.1	428.5	461.8
27.5°	503.3	462.9	429.7	468.5	511.0
30°	535.0	485.5	463.7	486.1	539.0
32.5°	580.9	519.3	510.8	527.6	588.1
35°	637.7	576.1	528.4	576.3	649.7
37.5°	749.1	627.7	610.9	646.0	757.4
40°	827.7	709.2	673.4	722.3	841.1
42.5°	948.4	800.7	709.7	807.3	969.1
45°	1060.8	911.7	825.4	919.3	1075.9
47.5°	1179.6	1013.5	981.1	1023.0	1190.8
50°	1320.0	1151.4	1128.8	1162.2	1324.8
52.5°	1485.7	1336.0	1269.2	1342.2	1487.3
55°	1682.5	1490.9	1475.9	1507.9	1685.0
57.5°	1874.9	1691.6	1787.4	1693.5	1841.6
60°	2012.2	1876.6	2043.5	1828.9	1938.2
62.5°	2020.9	2013.7	2362.5	1932.8	1917.5
65°	1832.6	1958.3	2629.6	1895.1	1740.6
67.5°	1442.6	1645.2	2670.0	1613.2	1398.4
70°	906.5	1139.2	2360.4	1182.9	932.2
72.5°	418.1	613.9	1777.5	691.0	441.9
75°	149.7	235.0	1096.6	252.4	156.6
77.5°	85.0	95.2	484.7	95.6	87.9
80°	54.7	59.3	140.0	62.6	53.3
82.5°	31.1	41.5	61.4	44.0	28.6
85°	16.8	26.3	27.2	27.0	16.8
87.5°	6.0	10.4	6.0	11.8	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)