

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: P367105

Luminaire Tested: **MSA-SA1D-830-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367105
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-SA1D-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: 5869 lumens
Efficiency: N/A
Efficacy: 87.6 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

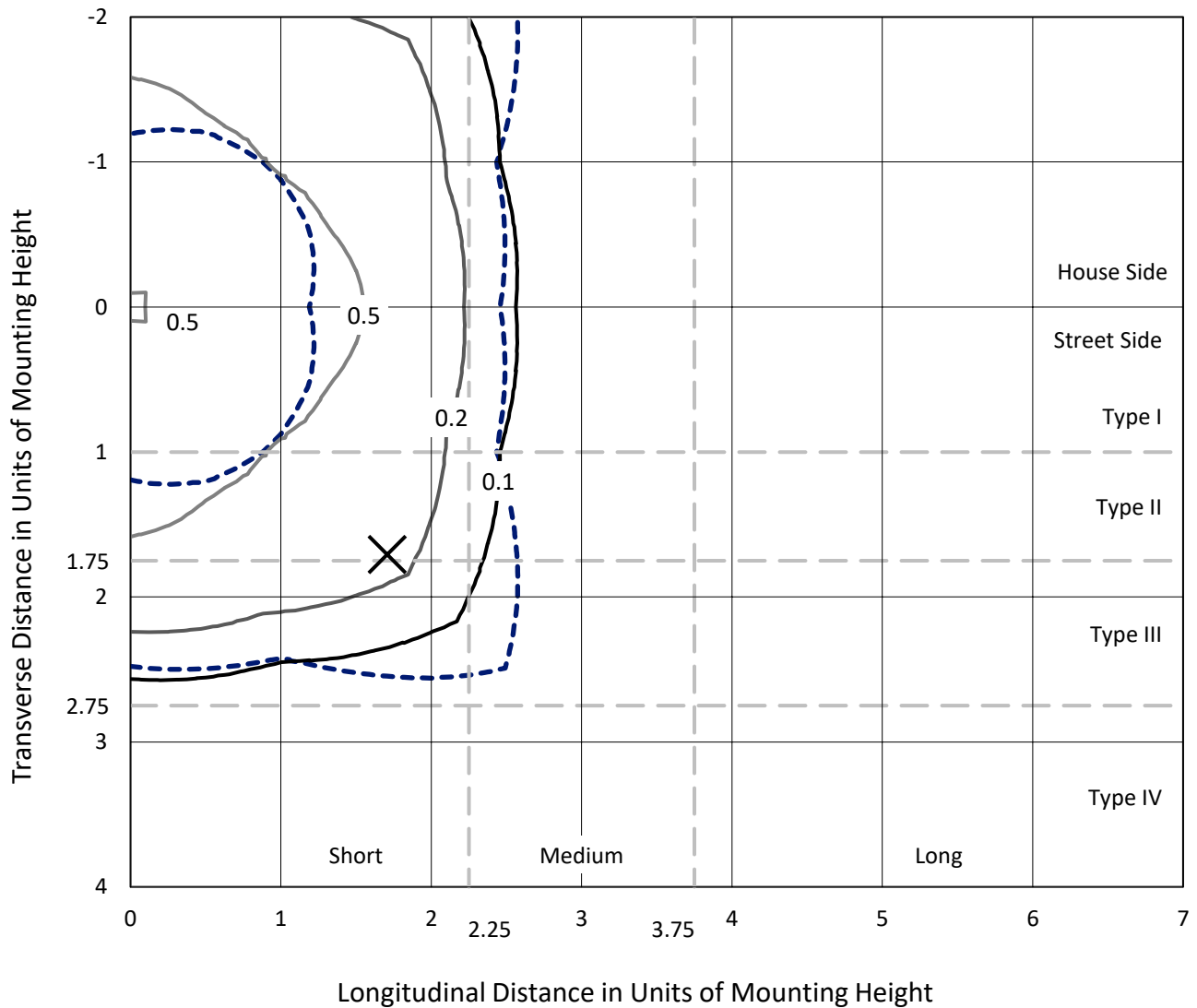
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

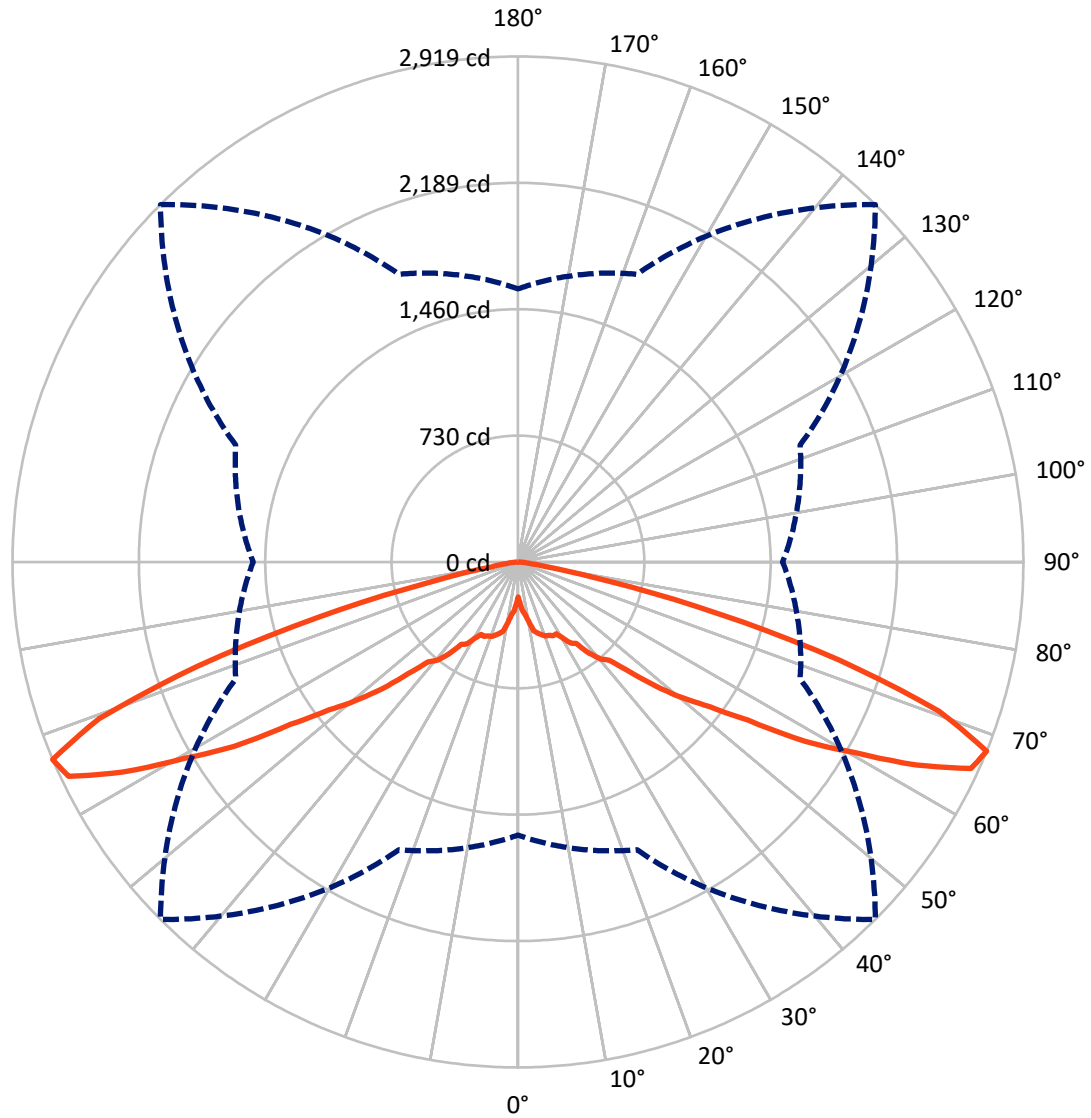
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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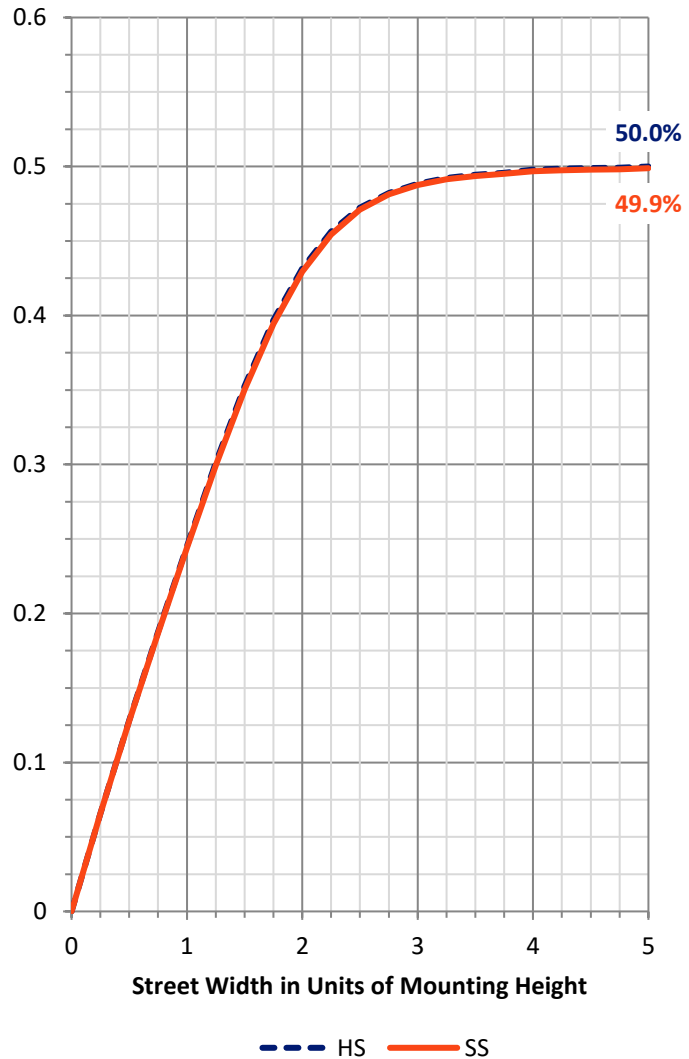
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2934.5	0.0	2934.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2934.5	0.0	2934.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5869.0	0.0	5869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	0.5
10°-20°	118.6	2.0
20°-30°	226.3	3.9
30°-40°	413.7	7.0
40°-50°	802.1	13.7
50°-60°	1531.7	26.1
60°-70°	2069.4	35.3
70°-80°	642.7	11.0
80°-90°	34.6	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°	5869.0	100.0
0°-180°	5869.0	100.0

Coefficient of Utilization

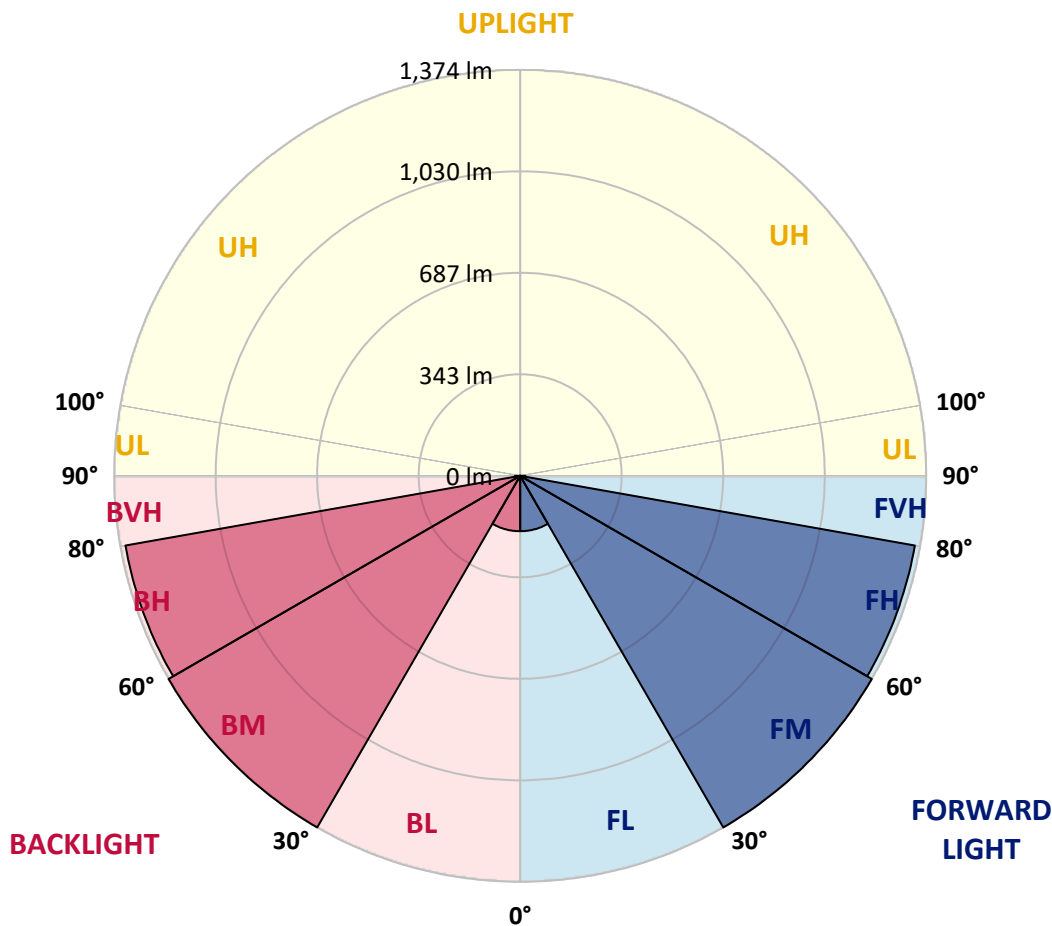


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	187.4	3.2			
FM (30°-60°)	1373.7	23.4			
FH (60°-80°)	1356.1	23.1			G1/1800
FVH (80°-90°)	17.3	0.3			G1/100
BL (0°-30°)	187.4	3.2	B1/500		
BM (30°-60°)	1373.7	23.4	B2/2500		
BH (60°-80°)	1356.1	23.1	B3/2500		G1/1800
BVH (80°-90°)	17.3	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°	201.1	201.1	201.1	201.1	201.1
2.5°	247.6	231.7	239.0	231.7	247.6
5°	314.7	298.2	283.6	294.1	315.6
7.5°	361.6	336.9	306.3	334.2	359.6
10°	369.6	355.8	354.4	354.2	368.7
12.5°	399.3	390.0	408.6	390.9	400.2
15°	422.4	417.2	425.6	423.8	423.3
17.5°	458.2	422.9	441.9	420.8	457.1
20°	474.1	424.0	456.0	421.5	473.9
22.5°	493.6	450.8	460.3	451.9	491.8
25°	504.7	468.0	471.4	468.4	504.9
27.5°	550.3	506.1	469.8	512.2	558.7
30°	585.0	530.8	507.0	531.5	589.3
32.5°	635.1	567.8	558.5	576.8	643.0
35°	697.2	629.9	577.7	630.1	710.4
37.5°	819.0	686.3	668.0	706.3	828.0
40°	904.9	775.4	736.2	789.7	919.6
42.5°	1036.9	875.4	775.9	882.7	1059.5
45°	1159.8	996.7	902.4	1005.1	1176.3
47.5°	1289.7	1108.1	1072.7	1118.5	1301.9
50°	1443.2	1258.8	1234.1	1270.6	1448.4
52.5°	1624.3	1460.6	1387.6	1467.4	1626.2
55°	1839.5	1630.0	1613.7	1648.6	1842.2
57.5°	2049.9	1849.5	1954.3	1851.5	2013.4
60°	2200.0	2051.7	2234.3	1999.6	2119.1
62.5°	2209.6	2201.6	2583.0	2113.2	2096.4
65°	2003.7	2141.1	2875.0	2071.9	1903.0
67.5°	1577.2	1798.7	2919.2	1763.8	1528.9
70°	991.1	1245.5	2580.7	1293.3	1019.2
72.5°	457.1	671.1	1943.4	755.5	483.2
75°	163.7	256.9	1199.0	275.9	171.2
77.5°	93.0	104.1	529.9	104.5	96.1
80°	59.9	64.8	153.0	68.5	58.3
82.5°	34.0	45.3	67.1	48.1	31.3
85°	18.4	28.8	29.7	29.5	18.4
87.5°	6.6	11.3	6.6	12.9	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)