

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: P368029

Luminaire Tested: **MSA-SA3C-830-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368029
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-SA3C-830-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15582 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

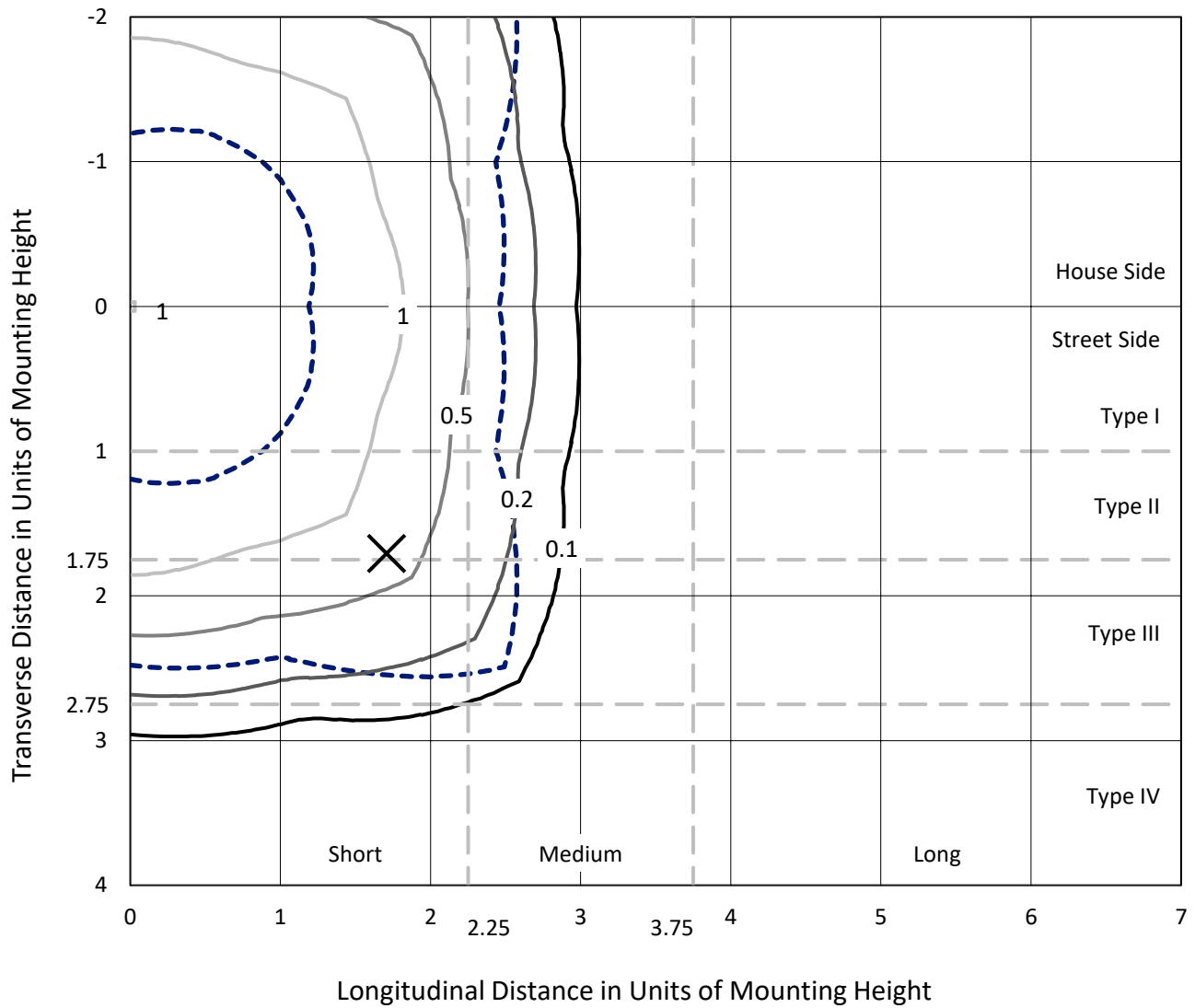
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

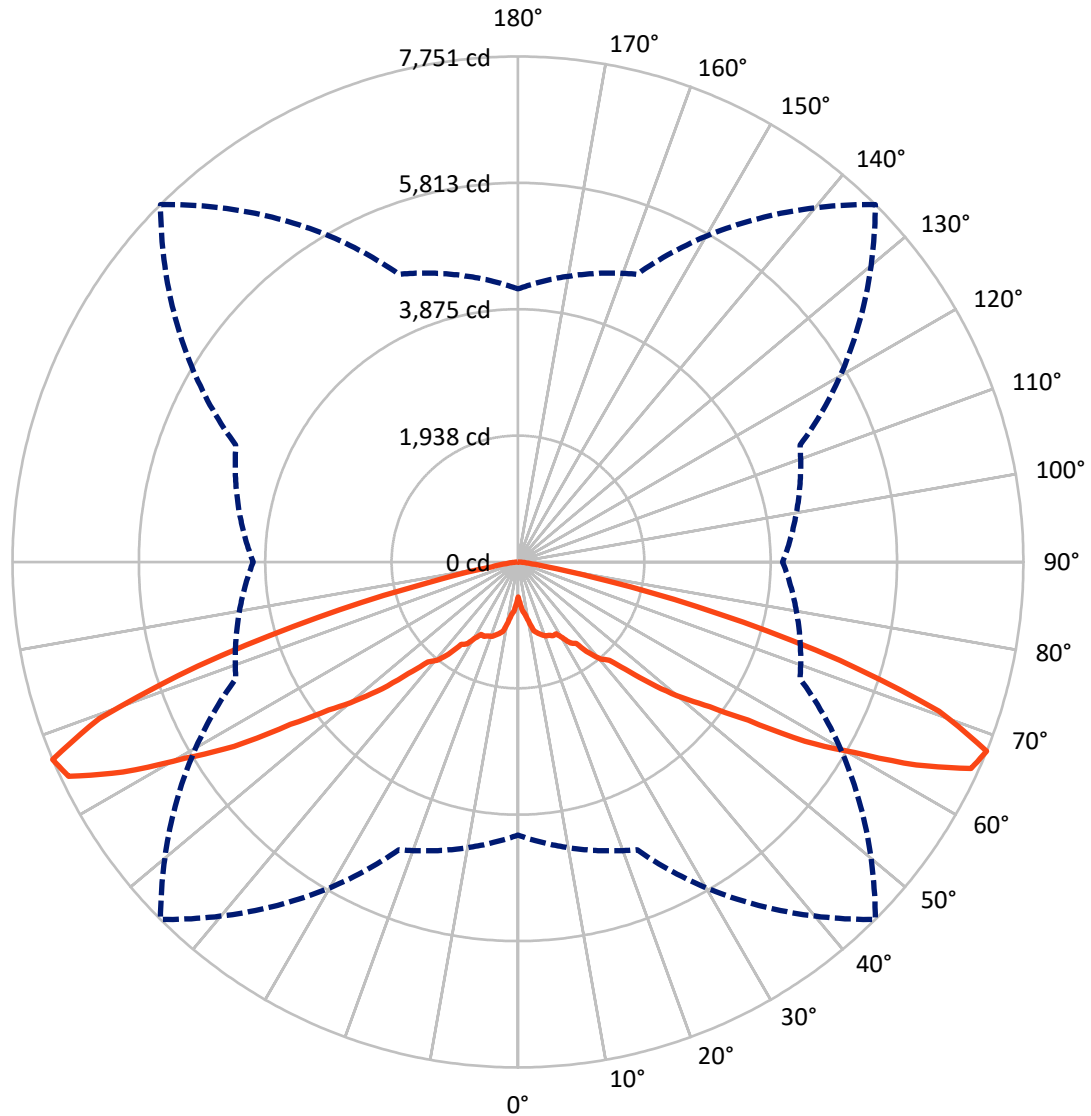
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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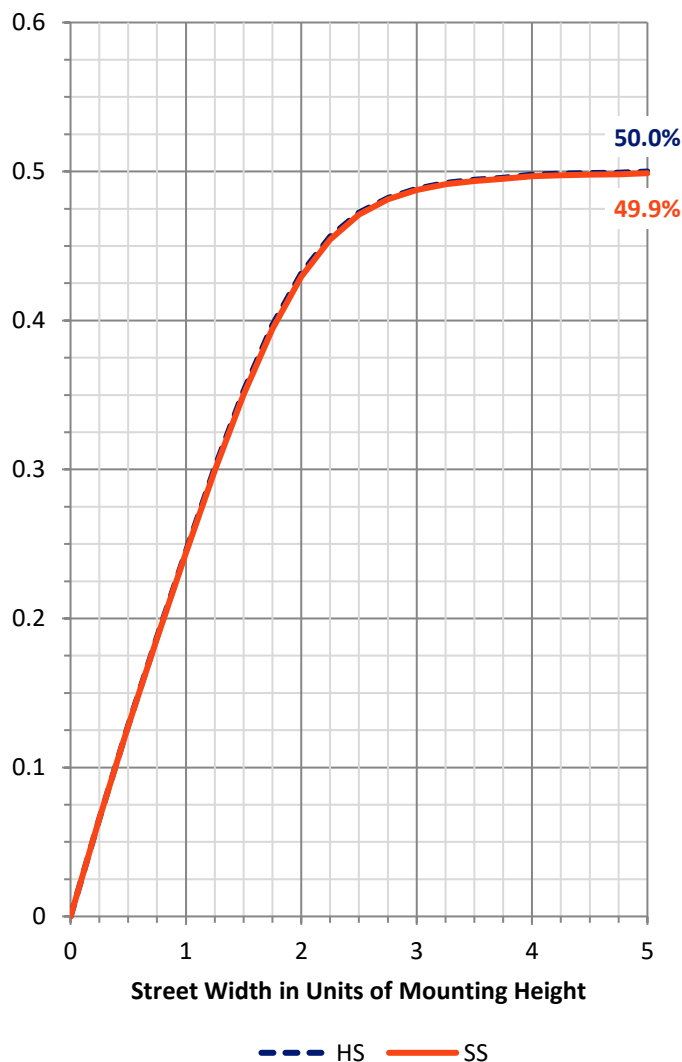
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7791.0	0.0	7791.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7791.0	0.0	7791.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15582.0	0.0	15582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	0.5
10°-20°	314.8	2.0
20°-30°	600.7	3.9
30°-40°	1098.3	7.0
40°-50°	2129.5	13.7
50°-60°	4066.5	26.1
60°-70°	5494.3	35.3
70°-80°	1706.4	11.0
80°-90°	91.9	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°	15582.0	100.0
0°-180°	15582.0	100.0

Coefficient of Utilization



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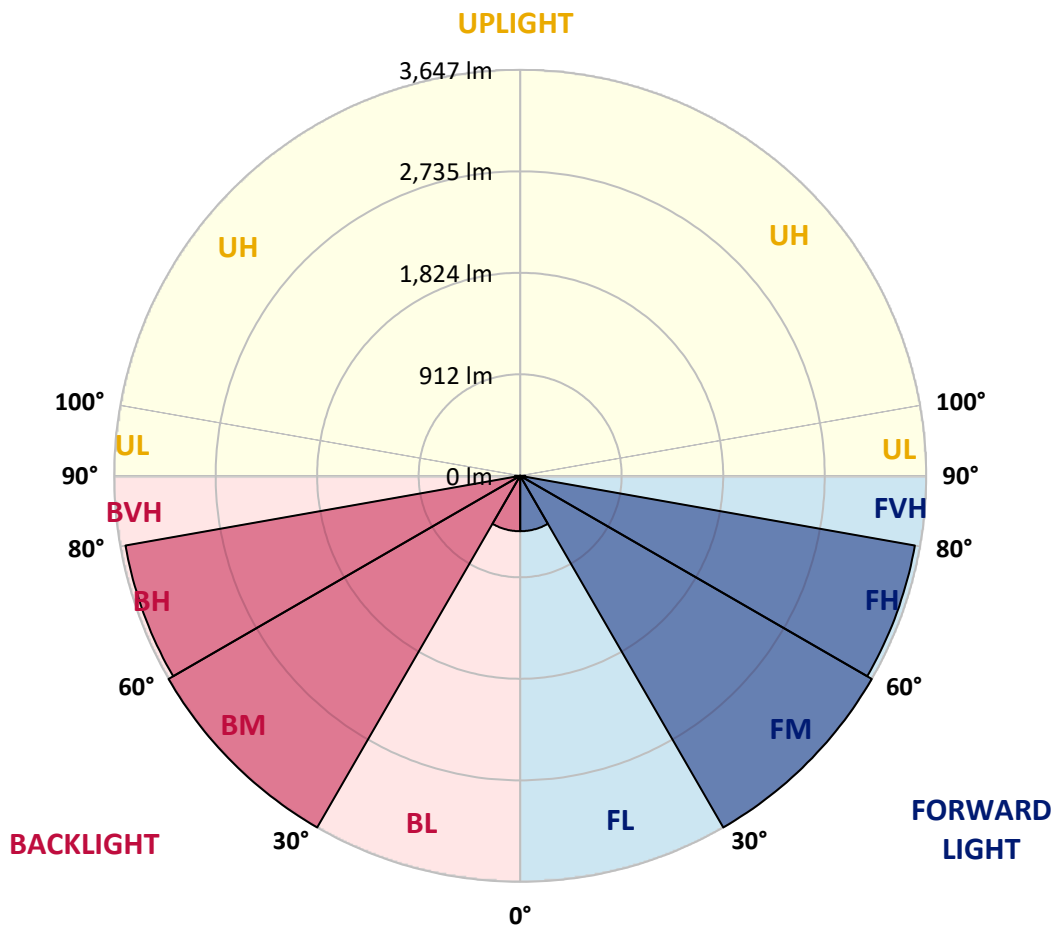
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.6	3.2			
FM (30°-60°)	3647.1	23.4			
FH (60°-80°)	3600.3	23.1			G2/5000
FVH (80°-90°)	46.0	0.3			G1/100
BL (0°-30°)	497.6	3.2	B1/500		
BM (30°-60°)	3647.1	23.4	B3/5000		
BH (60°-80°)	3600.3	23.1	B4/5000		G2/5000
BVH (80°-90°)	46.0	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°	534.0	534.0	534.0	534.0	534.0
2.5°	657.4	615.2	634.5	615.2	657.4
5°	835.5	791.6	753.1	780.8	838.0
7.5°	960.2	894.5	813.3	887.3	954.7
10°	981.2	944.5	940.9	940.3	978.8
12.5°	1060.1	1035.4	1084.8	1037.8	1062.5
15°	1121.5	1107.6	1129.9	1125.1	1123.9
17.5°	1216.6	1122.7	1173.3	1117.3	1213.6
20°	1258.7	1125.7	1210.6	1119.1	1258.1
22.5°	1310.5	1196.7	1222.0	1199.7	1305.7
25°	1340.0	1242.5	1251.5	1243.7	1340.6
27.5°	1461.0	1343.6	1247.3	1359.9	1483.3
30°	1553.1	1409.2	1346.0	1411.0	1564.5
32.5°	1686.1	1507.4	1482.7	1531.4	1707.2
35°	1851.1	1672.3	1533.8	1672.9	1886.0
37.5°	2174.4	1822.2	1773.4	1875.2	2198.4
40°	2402.5	2058.8	1954.6	2096.7	2441.6
42.5°	2752.9	2324.2	2060.0	2343.5	2813.1
45°	3079.1	2646.3	2395.9	2668.6	3123.1
47.5°	3424.1	2941.9	2848.0	2969.6	3456.6
50°	3831.6	3342.2	3276.6	3373.5	3845.5
52.5°	4312.6	3878.0	3684.1	3896.0	4317.4
55°	4883.9	4327.6	4284.3	4377.0	4891.1
57.5°	5442.5	4910.4	5188.5	4915.8	5345.6
60°	5841.0	5447.3	5931.9	5308.9	5626.1
62.5°	5866.3	5845.2	6857.8	5610.5	5565.9
65°	5319.7	5684.5	7633.1	5500.9	5052.4
67.5°	4187.4	4775.5	7750.5	4682.8	4059.2
70°	2631.3	3306.7	6851.7	3433.7	2705.9
72.5°	1213.6	1781.9	5159.6	2005.8	1282.8
75°	434.6	682.0	3183.3	732.6	454.5
77.5°	246.8	276.3	1406.8	277.5	255.2
80°	158.9	172.2	406.3	181.8	154.7
82.5°	90.3	120.4	178.2	127.6	83.1
85°	48.8	76.5	78.9	78.3	48.8
87.5°	17.5	30.1	17.5	34.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)