

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: P367413

Luminaire Tested: **MSA-SA2C-730-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367413
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-SA2C-730-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: 12101 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

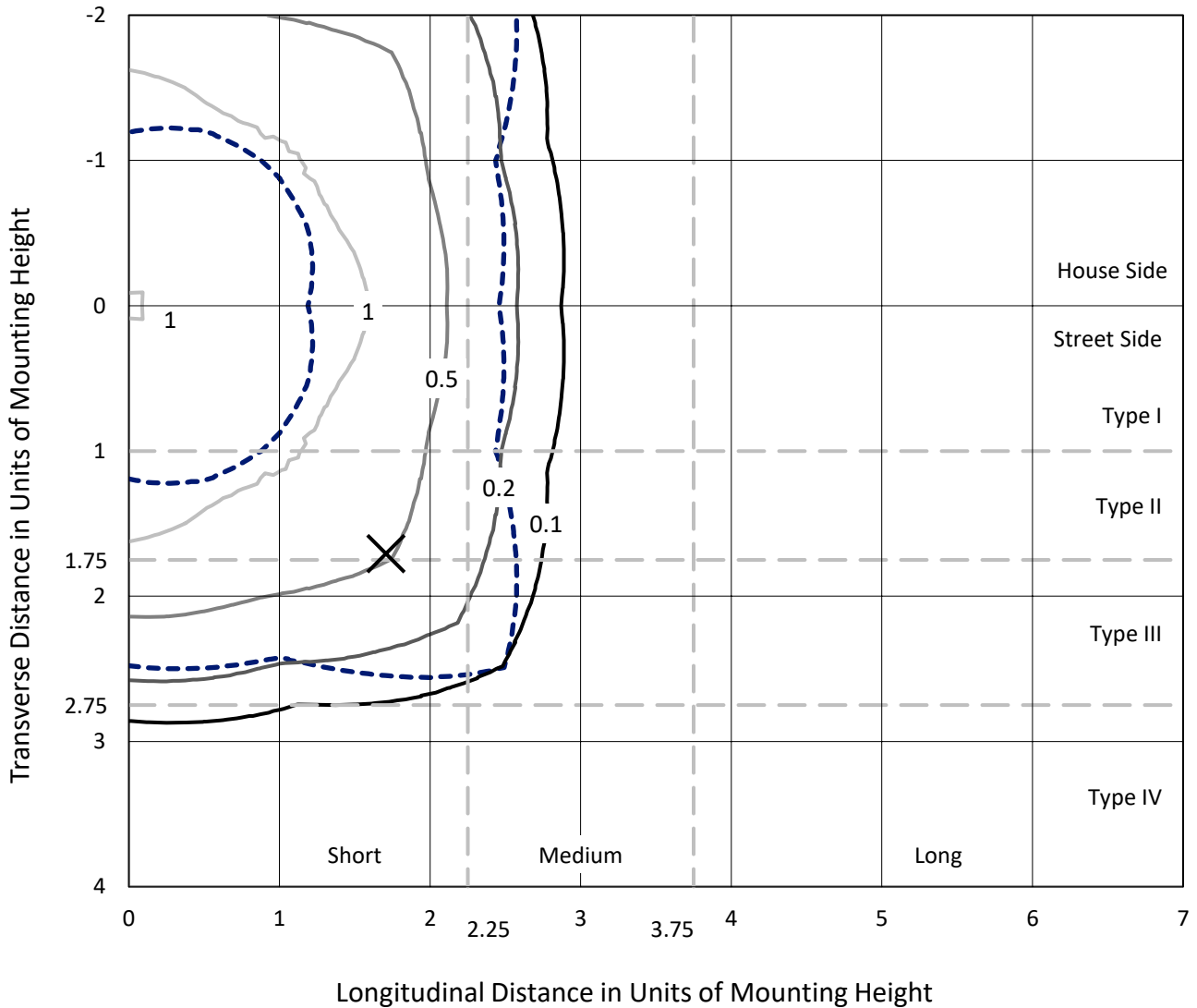
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

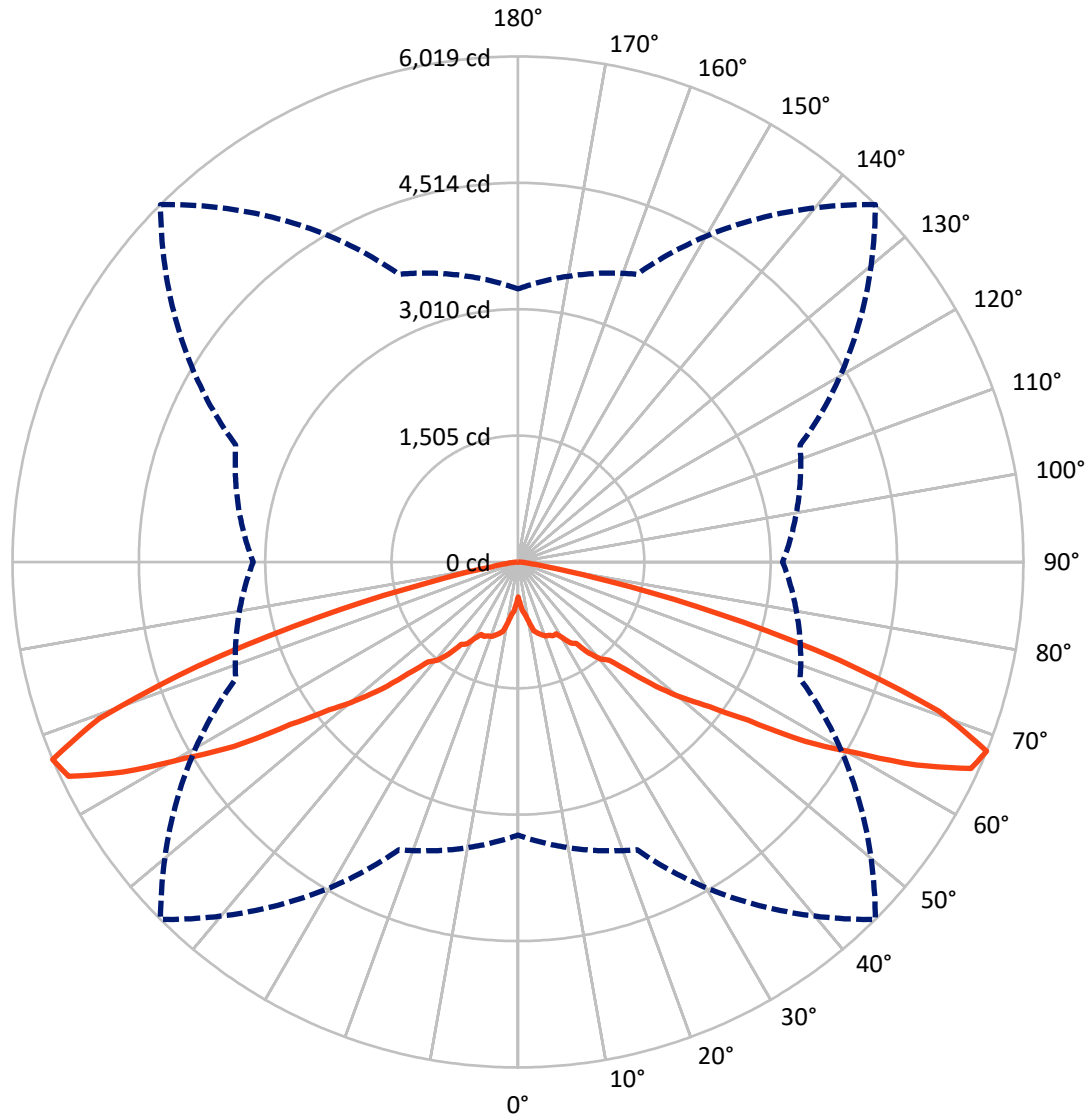
✕ Max cd
 - - - 1/2 Max cd



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	6050.5	0.0	6050.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6050.5	0.0	6050.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12101.0	0.0	12101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	0.5
10°-20°	244.5	2.0
20°-30°	466.5	3.9
30°-40°	852.9	7.0
40°-50°	1653.7	13.7
50°-60°	3158.1	26.1
60°-70°	4266.9	35.3
70°-80°	1325.1	11.0
80°-90°	71.4	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°	12101.0	100.0
0°-180°	12101.0	100.0

Coefficient of Utilization

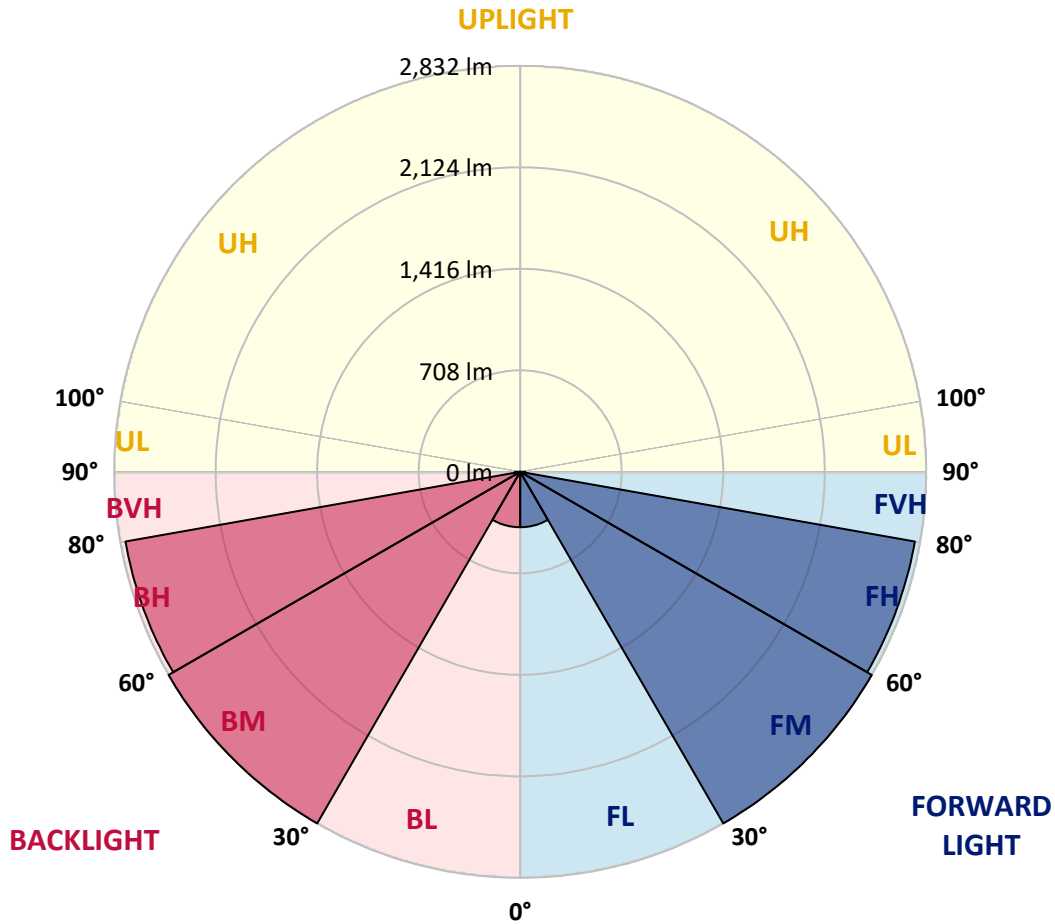


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.4	3.2			
FM (30°-60°)	2832.4	23.4			
FH (60°-80°)	2796.0	23.1			G2/5000
FVH (80°-90°)	35.7	0.3			G1/100
BL (0°-30°)	386.4	3.2	B1/500		
BM (30°-60°)	2832.4	23.4	B3/5000		
BH (60°-80°)	2796.0	23.1	B4/5000		G2/5000
BVH (80°-90°)	35.7	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°	414.7	414.7	414.7	414.7	414.7
2.5°	510.5	477.8	492.7	477.8	510.5
5°	648.9	614.8	584.8	606.3	650.8
7.5°	745.7	694.7	631.6	689.1	741.5
10°	762.0	733.5	730.7	730.2	760.2
12.5°	823.3	804.1	842.4	806.0	825.1
15°	871.0	860.2	877.5	873.8	872.8
17.5°	944.8	871.9	911.2	867.7	942.5
20°	977.5	874.2	940.1	869.1	977.1
22.5°	1017.7	929.4	949.0	931.7	1014.0
25°	1040.7	964.9	971.9	965.9	1041.1
27.5°	1134.6	1043.5	968.7	1056.1	1151.9
30°	1206.1	1094.4	1045.3	1095.8	1215.0
32.5°	1309.5	1170.6	1151.4	1189.3	1325.8
35°	1437.6	1298.7	1191.2	1299.2	1464.7
37.5°	1688.6	1415.1	1377.3	1456.3	1707.3
40°	1865.8	1598.8	1518.0	1628.3	1896.2
42.5°	2137.9	1805.0	1599.8	1820.0	2184.6
45°	2391.3	2055.1	1860.6	2072.4	2425.4
47.5°	2659.1	2284.7	2211.7	2306.2	2684.4
50°	2975.6	2595.6	2544.6	2619.9	2986.4
52.5°	3349.2	3011.6	2861.1	3025.7	3352.9
55°	3792.8	3360.8	3327.2	3399.2	3798.4
57.5°	4226.7	3813.4	4029.4	3817.6	4151.4
60°	4536.1	4230.4	4606.7	4122.9	4369.2
62.5°	4555.8	4539.4	5325.7	4357.1	4322.5
65°	4131.3	4414.6	5927.9	4272.0	3923.7
67.5°	3251.9	3708.7	6019.0	3636.7	3152.3
70°	2043.4	2568.0	5321.1	2666.6	2101.4
72.5°	942.5	1383.8	4006.9	1557.7	996.2
75°	337.5	529.7	2472.1	568.9	353.0
77.5°	191.7	214.6	1092.5	215.5	198.2
80°	123.4	133.7	315.6	141.2	120.1
82.5°	70.1	93.5	138.4	99.1	64.5
85°	37.9	59.4	61.2	60.8	37.9
87.5°	13.6	23.4	13.6	26.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)