

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: P367435

Luminaire Tested: **MSA-SA2C-740-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367435
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-740-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: 13287 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

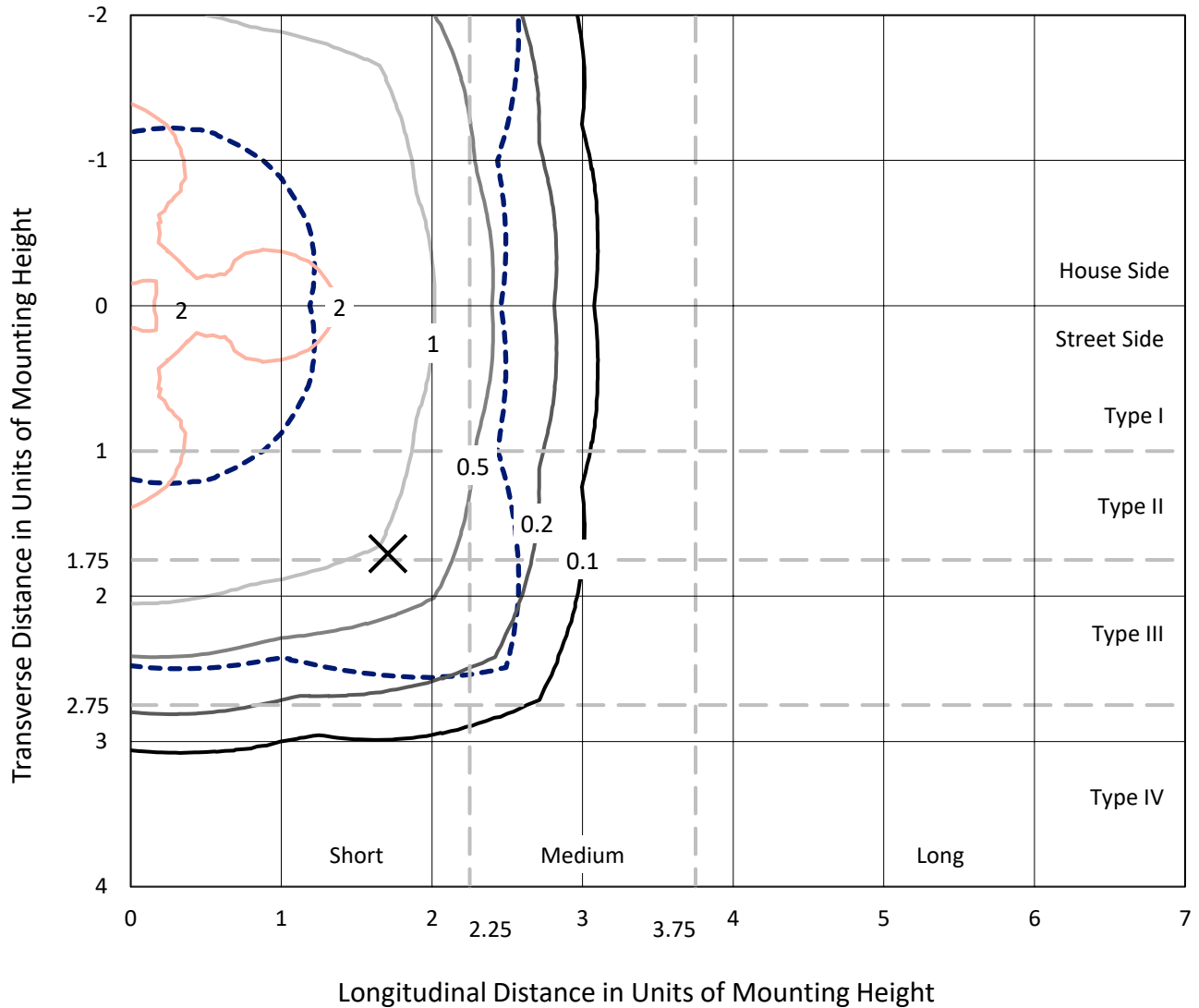
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

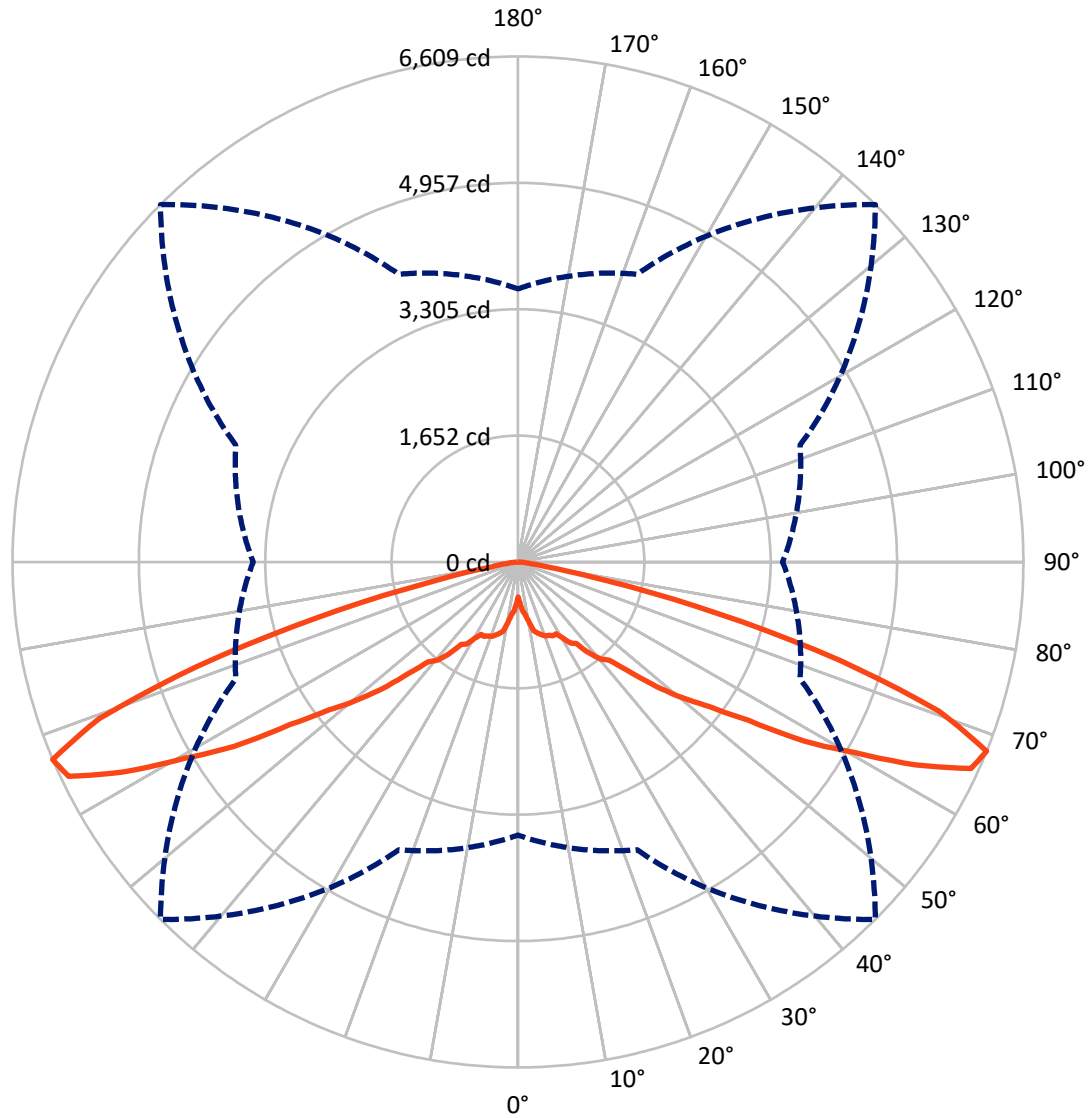
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 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	6643.5	0.0	6643.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6643.5	0.0	6643.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13287.0	0.0	13287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	0.5
10°-20°	268.5	2.0
20°-30°	512.2	3.9
30°-40°	936.5	7.0
40°-50°	1815.8	13.7
50°-60°	3467.6	26.1
60°-70°	4685.1	35.3
70°-80°	1455.0	11.0
80°-90°	78.4	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°	13287.0	100.0
0°-180°	13287.0	100.0

Coefficient of Utilization



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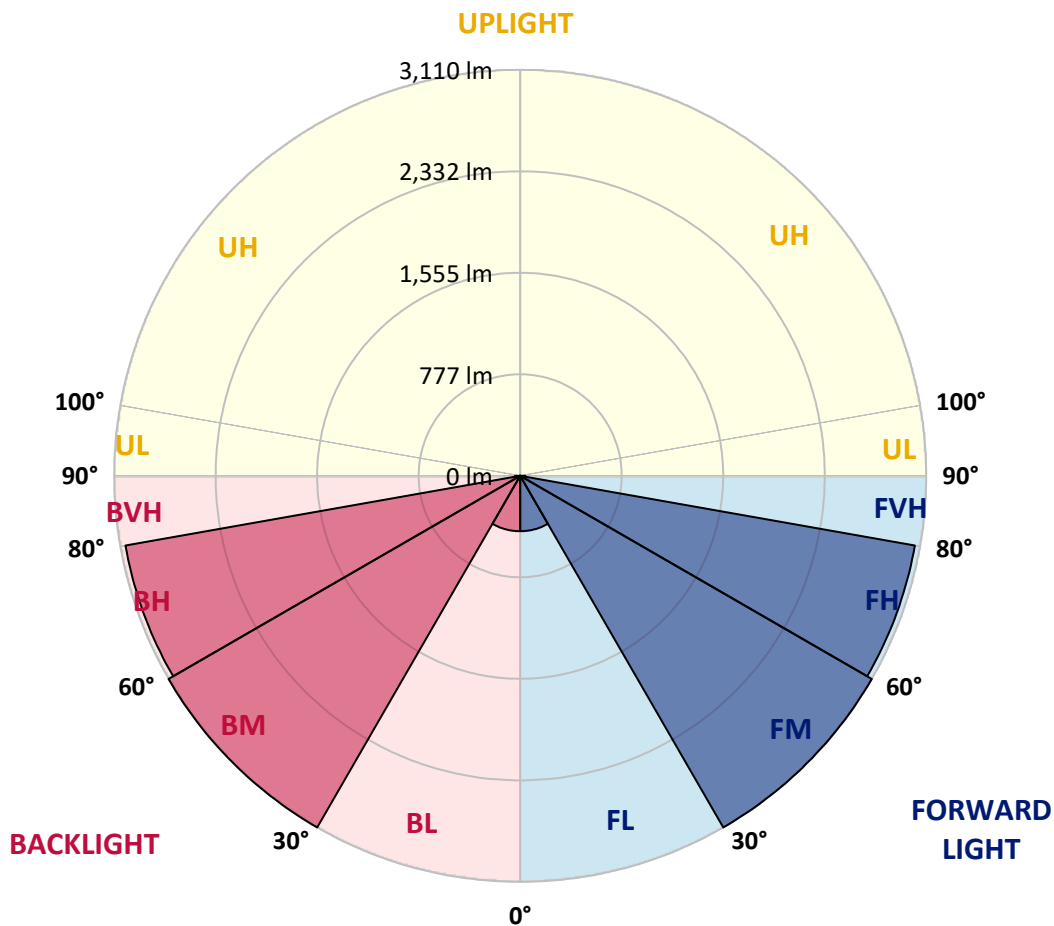
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.3	3.2			
FM (30°-60°)	3109.9	23.4			
FH (60°-80°)	3070.1	23.1			G2/5000
FVH (80°-90°)	39.2	0.3			G1/100
BL (0°-30°)	424.3	3.2	B1/500		
BM (30°-60°)	3109.9	23.4	B3/5000		
BH (60°-80°)	3070.1	23.1	B4/5000		G2/5000
BVH (80°-90°)	39.2	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°	455.3	455.3	455.3	455.3	455.3
2.5°	560.5	524.6	541.0	524.6	560.5
5°	712.5	675.0	642.2	665.8	714.5
7.5°	818.7	762.8	693.5	756.6	814.1
10°	836.7	805.4	802.3	801.8	834.7
12.5°	904.0	882.9	925.0	885.0	906.0
15°	956.3	944.5	963.5	959.4	958.4
17.5°	1037.4	957.3	1000.5	952.7	1034.8
20°	1073.3	959.9	1032.3	954.3	1072.8
22.5°	1117.5	1020.5	1042.0	1023.0	1113.4
25°	1142.6	1059.5	1067.2	1060.5	1143.2
27.5°	1245.8	1145.7	1063.6	1159.6	1264.8
30°	1324.4	1201.7	1147.8	1203.2	1334.1
32.5°	1437.8	1285.3	1264.3	1305.9	1455.8
35°	1578.5	1426.0	1307.9	1426.5	1608.2
37.5°	1854.1	1553.8	1512.2	1599.0	1874.6
40°	2048.7	1755.5	1666.7	1787.9	2082.0
42.5°	2347.4	1981.9	1756.6	1998.3	2398.7
45°	2625.6	2256.5	2043.0	2275.5	2663.1
47.5°	2919.8	2508.6	2428.5	2532.2	2947.5
50°	3267.3	2849.9	2794.0	2876.6	3279.1
52.5°	3677.4	3306.8	3141.5	3322.2	3681.5
55°	4164.5	3690.2	3653.3	3732.3	4170.7
57.5°	4640.9	4187.1	4424.3	4191.8	4558.3
60°	4980.7	4645.0	5058.2	4526.9	4797.5
62.5°	5002.3	4984.3	5847.7	4784.1	4746.1
65°	4536.2	4847.3	6508.9	4690.7	4308.3
67.5°	3570.6	4072.1	6609.0	3993.1	3461.3
70°	2243.7	2819.7	5842.6	2928.0	2307.4
72.5°	1034.8	1519.4	4399.6	1710.4	1093.9
75°	370.6	581.6	2714.4	624.7	387.6
77.5°	210.5	235.6	1199.6	236.6	217.6
80°	135.5	146.8	346.5	155.0	131.9
82.5°	77.0	102.7	151.9	108.8	70.8
85°	41.6	65.2	67.2	66.7	41.6
87.5°	14.9	25.7	14.9	29.3	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)