

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: P367919

Luminaire Tested: **MSA-SA3C-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367919
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-727-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: 16399 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

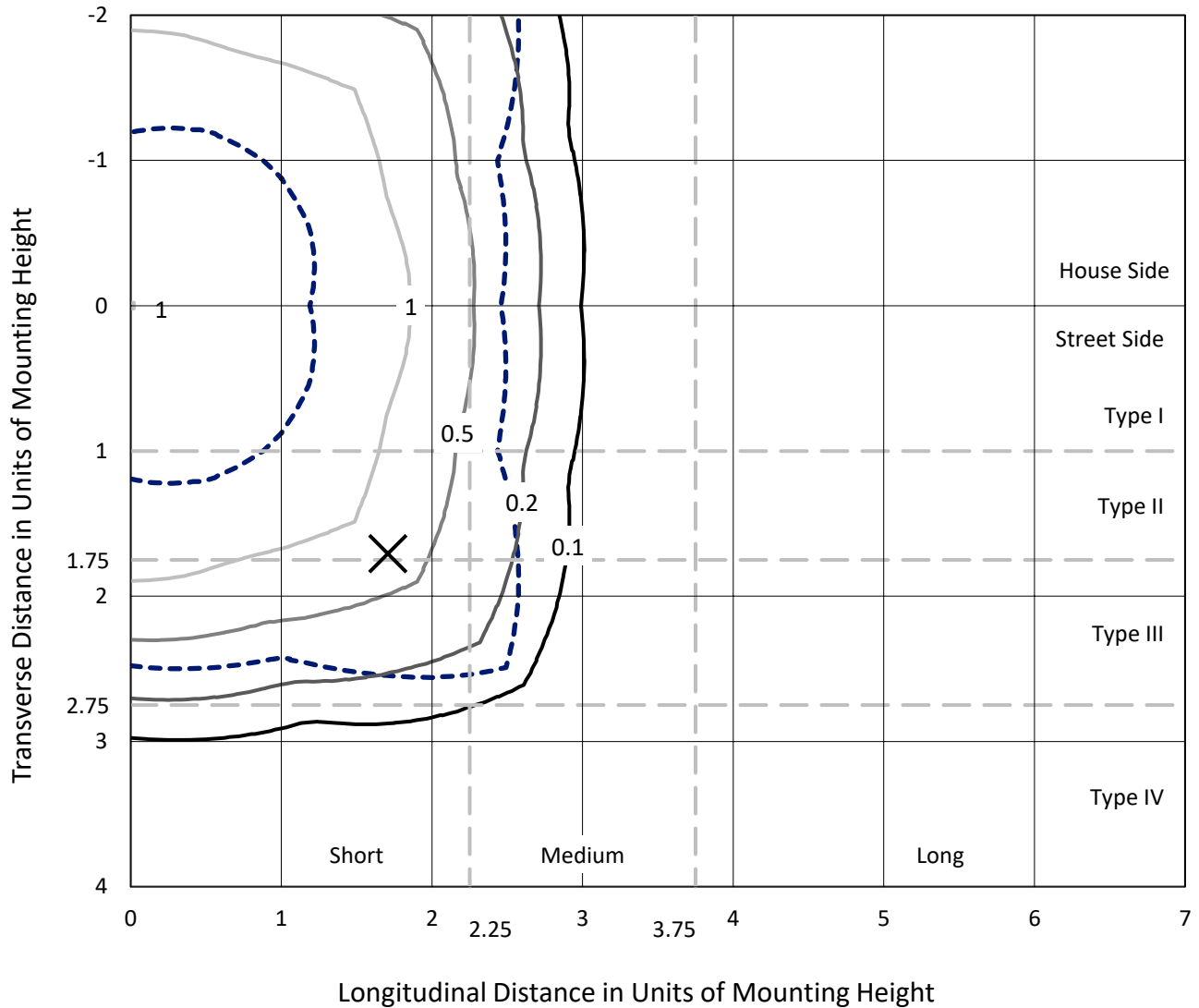
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

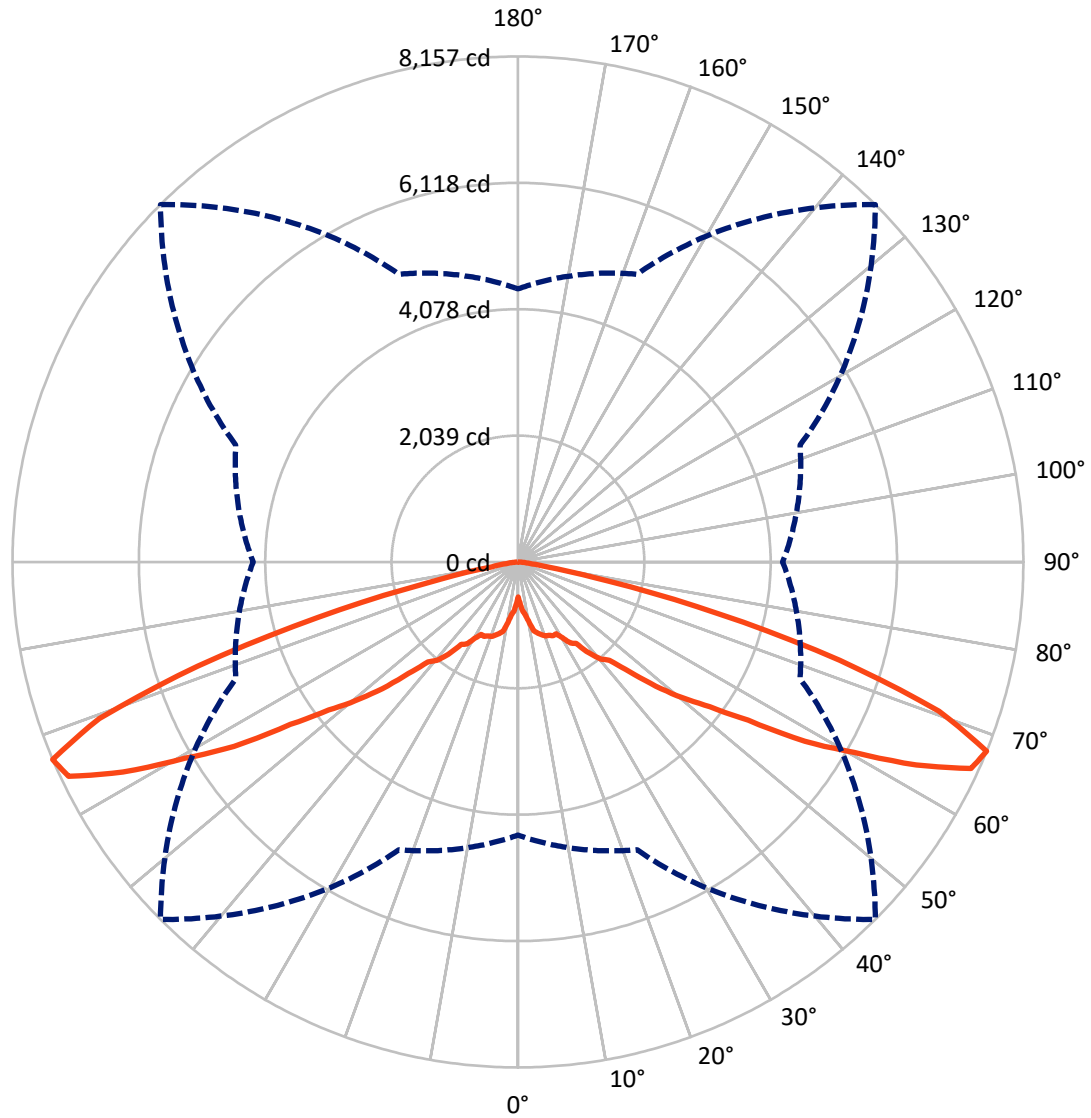
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	8199.5	0.0	8199.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8199.5	0.0	8199.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16399.0	0.0	16399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	0.5
10°-20°	331.3	2.0
20°-30°	632.2	3.9
30°-40°	1155.8	7.0
40°-50°	2241.1	13.7
50°-60°	4279.8	26.1
60°-70°	5782.4	35.3
70°-80°	1795.8	11.0
80°-90°	96.8	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°	16399.0	100.0
0°-180°	16399.0	100.0

Coefficient of Utilization



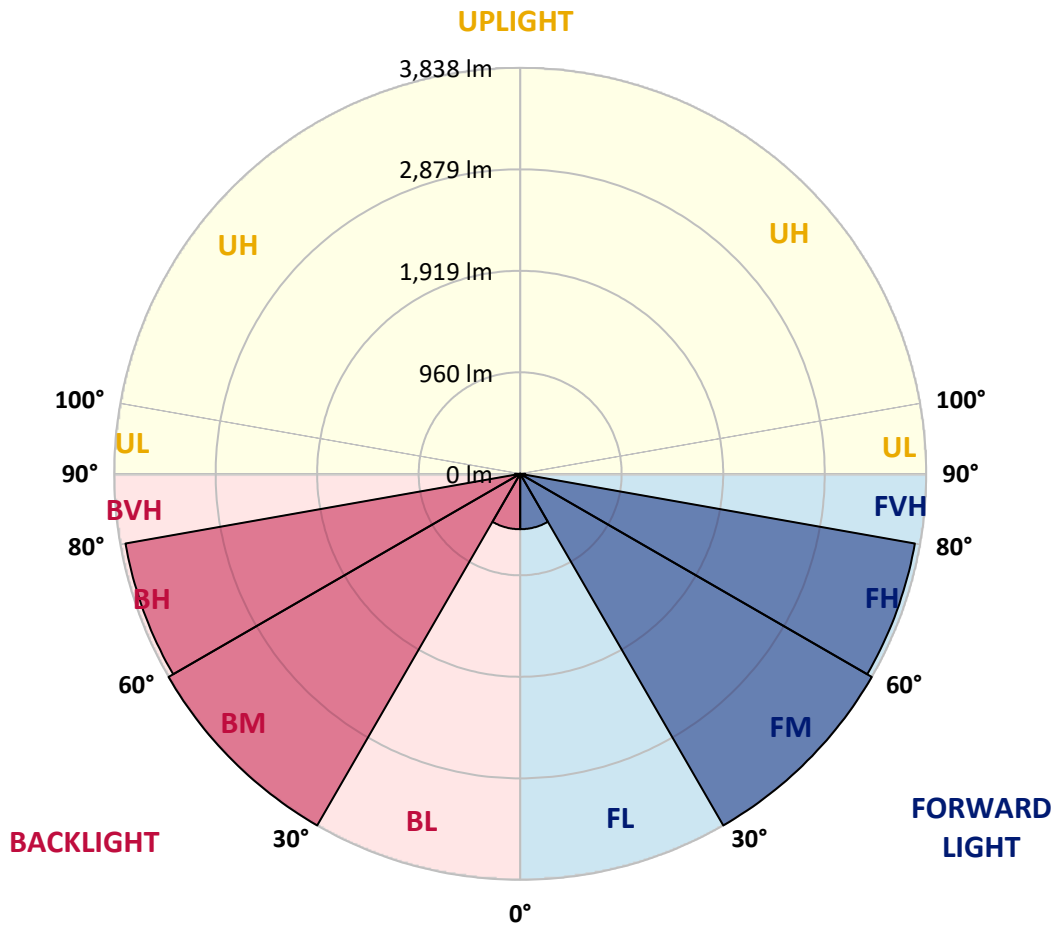
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.7	3.2			
FM (30°-60°)	3838.3	23.4			
FH (60°-80°)	3789.1	23.1			G2/5000
FVH (80°-90°)	48.4	0.3			G1/100
BL (0°-30°)	523.7	3.2	B2/1000		
BM (30°-60°)	3838.3	23.4	B3/5000		
BH (60°-80°)	3789.1	23.1	B4/5000		G2/5000
BVH (80°-90°)	48.4	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°	562.0	562.0	562.0	562.0	562.0
2.5°	691.8	647.5	667.8	647.5	691.8
5°	879.4	833.1	792.6	821.7	881.9
7.5°	1010.5	941.4	855.9	933.8	1004.8
10°	1032.7	994.0	990.2	989.6	1030.1
12.5°	1115.7	1089.7	1141.6	1092.2	1118.2
15°	1180.3	1165.7	1189.2	1184.1	1182.8
17.5°	1280.4	1181.6	1234.8	1175.9	1277.2
20°	1324.7	1184.7	1274.1	1177.8	1324.1
22.5°	1379.2	1259.5	1286.1	1262.7	1374.2
25°	1410.3	1307.6	1317.1	1308.9	1410.9
27.5°	1537.6	1414.1	1312.7	1431.2	1561.1
30°	1634.5	1483.1	1416.6	1485.0	1646.6
32.5°	1774.6	1586.4	1560.4	1611.7	1796.7
35°	1948.1	1760.0	1614.3	1760.6	1984.9
37.5°	2288.4	1917.7	1866.4	1973.5	2313.7
40°	2528.5	2166.7	2057.1	2206.6	2569.7
42.5°	2897.2	2446.1	2168.0	2466.4	2960.5
45°	3240.6	2785.1	2521.5	2808.5	3286.8
47.5°	3603.6	3096.1	2997.3	3125.3	3637.8
50°	4032.5	3517.4	3448.4	3550.4	4047.1
52.5°	4538.7	4081.3	3877.3	4100.3	4543.8
55°	5139.9	4554.5	4508.9	4606.5	5147.5
57.5°	5727.9	5167.8	5460.5	5173.5	5625.9
60°	6147.3	5732.9	6242.9	5587.2	5921.1
62.5°	6173.9	6151.7	7217.3	5904.6	5857.7
65°	5598.6	5982.6	8033.3	5789.3	5317.3
67.5°	4406.9	5025.9	8156.9	4928.3	4272.0
70°	2769.2	3480.1	7211.0	3613.7	2847.8
72.5°	1277.2	1875.3	5430.1	2111.0	1350.1
75°	457.4	717.8	3350.2	771.0	478.3
77.5°	259.8	290.8	1480.6	292.1	268.6
80°	167.3	181.2	427.6	191.3	162.8
82.5°	95.0	126.7	187.5	134.3	87.4
85°	51.3	80.5	83.0	82.4	51.3
87.5°	18.4	31.7	18.4	36.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)