

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: P596673

Luminaire Tested: **MSA-SA3B-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3B-827-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: 11639 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

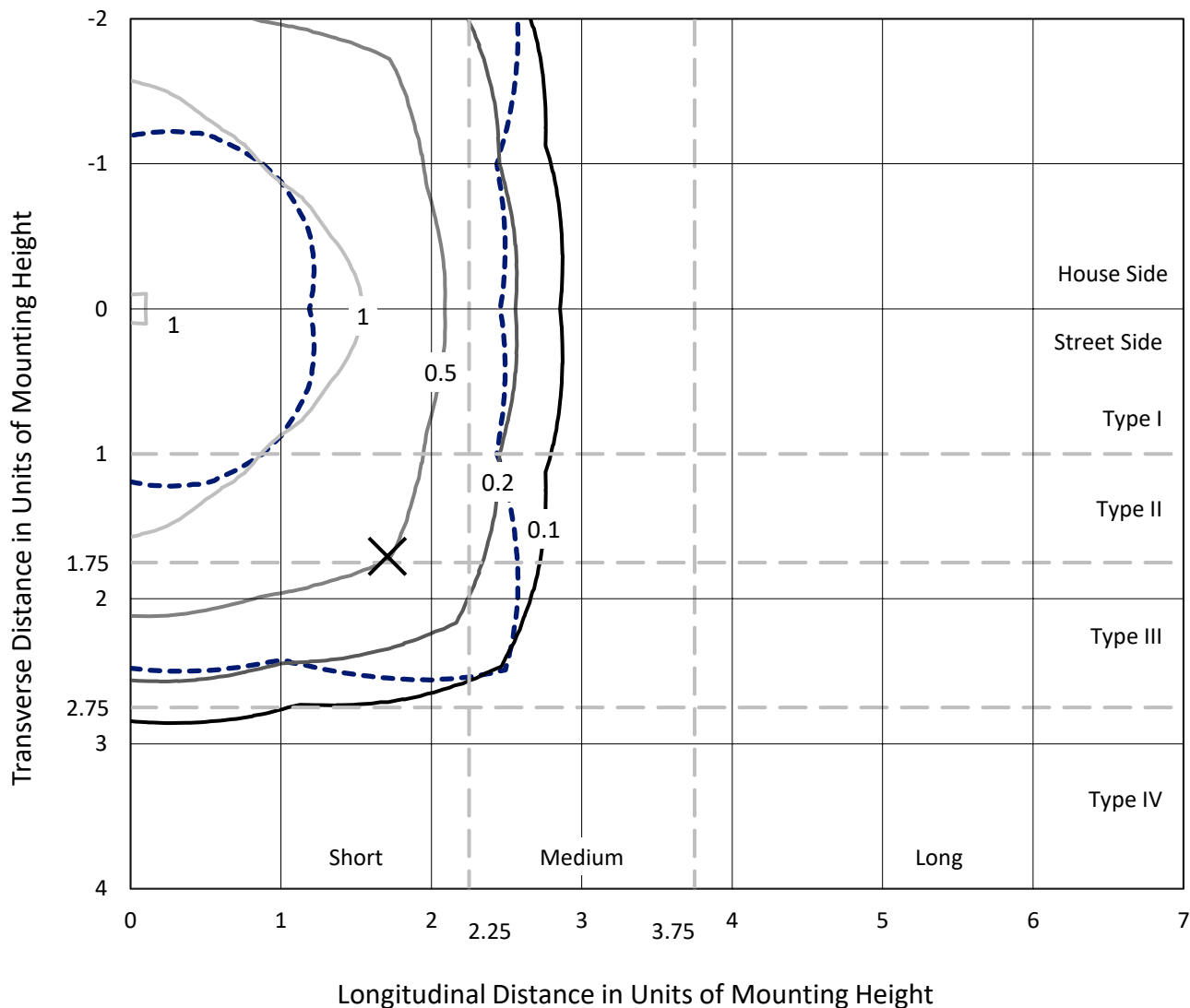
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

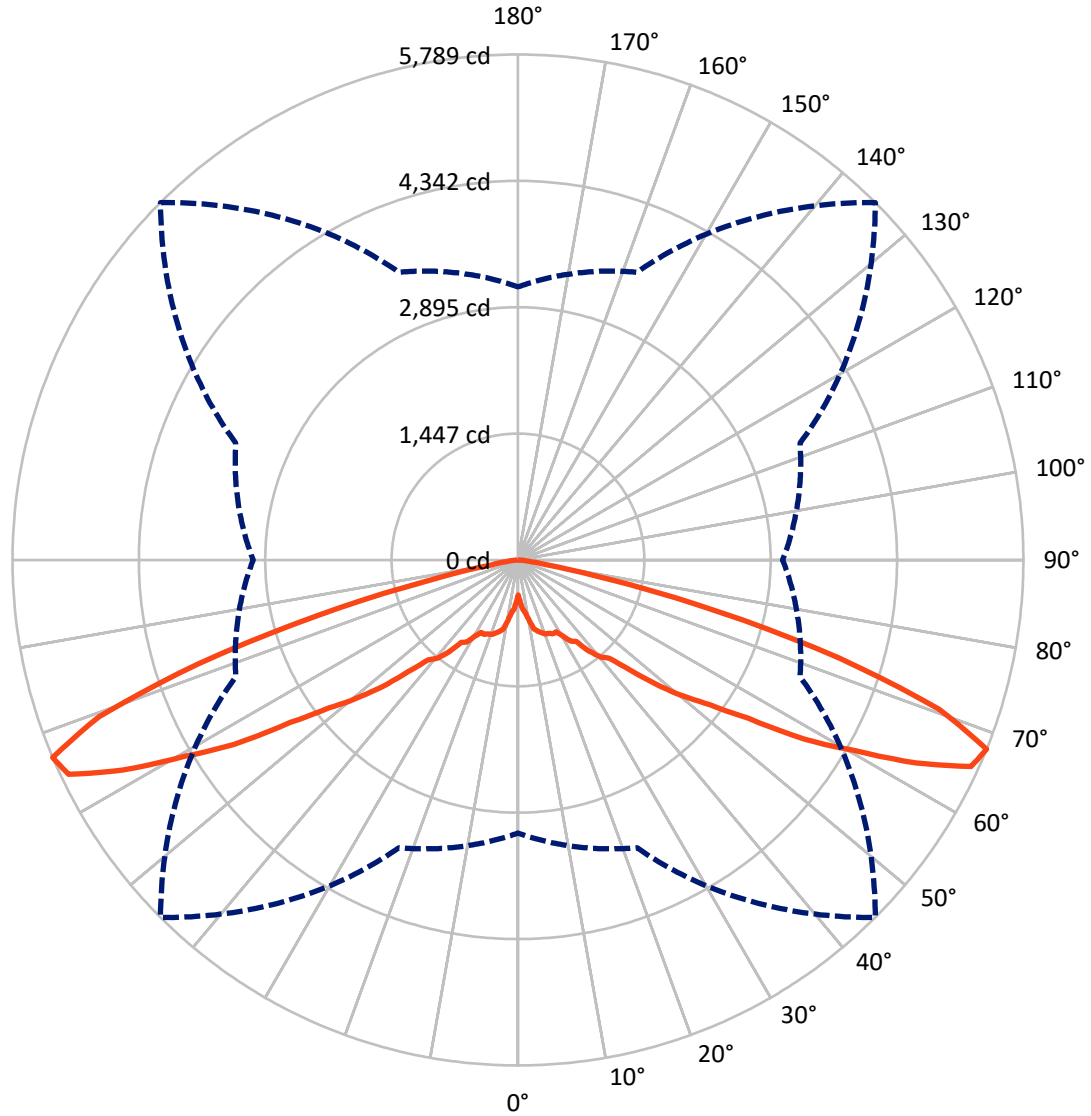
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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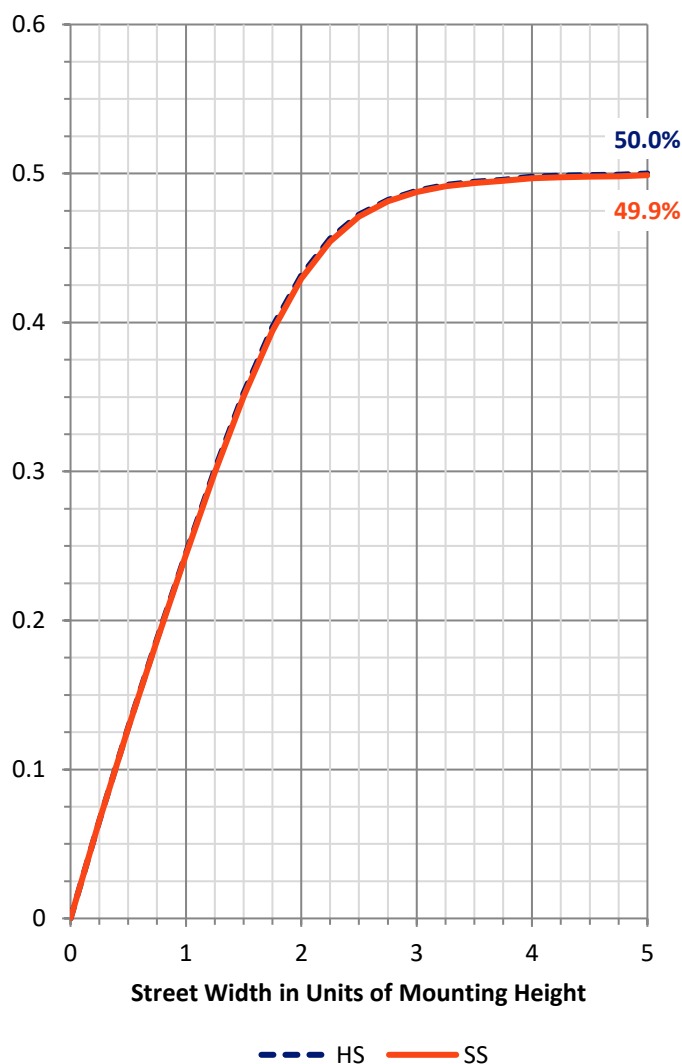
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5819.5	0.0	5819.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5819.5	0.0	5819.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11639.0	0.0	11639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	0.5
10°-20°	235.2	2.0
20°-30°	448.7	3.9
30°-40°	820.3	7.0
40°-50°	1590.6	13.7
50°-60°	3037.5	26.1
60°-70°	4104.0	35.3
70°-80°	1274.6	11.0
80°-90°	68.7	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°	11639.0	100.0
0°-180°	11639.0	100.0

Coefficient of Utilization



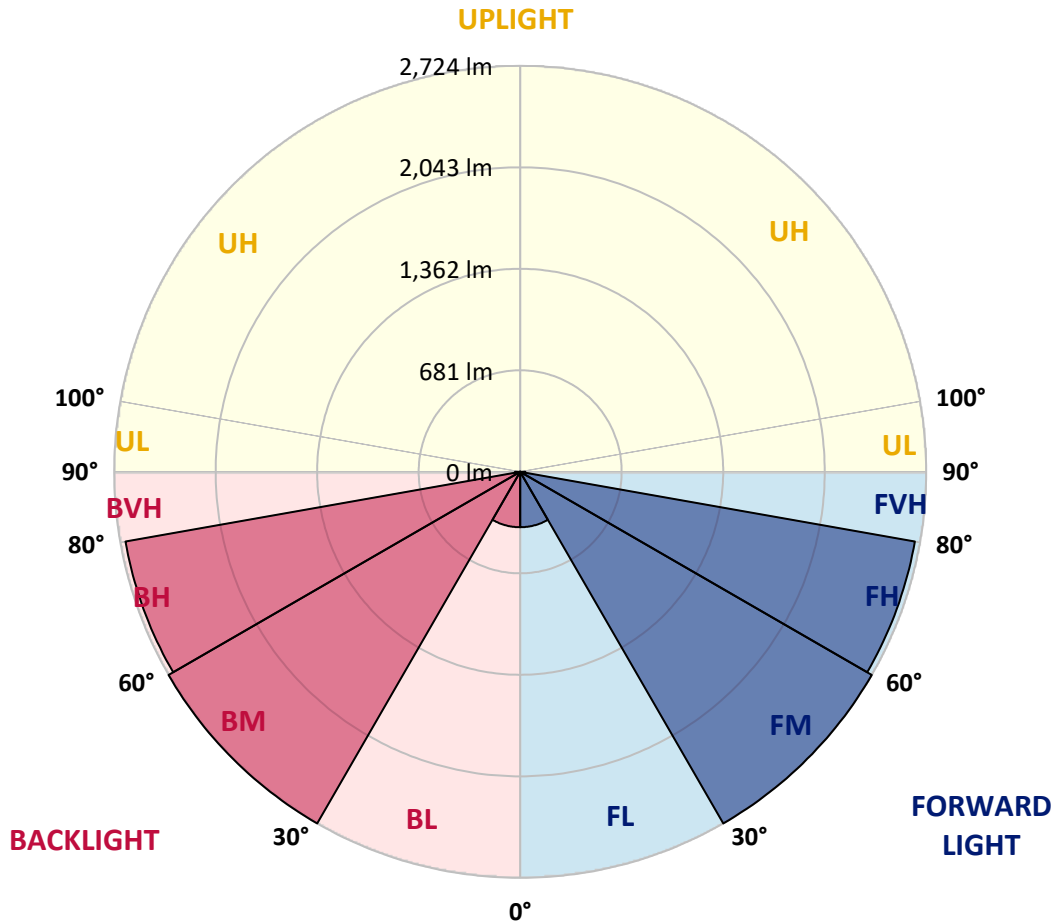
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	371.7	3.2			
FM (30°-60°)	2724.2	23.4			
FH (60°-80°)	2689.3	23.1			G2/5000
FVH (80°-90°)	34.3	0.3			G1/100
BL (0°-30°)	371.7	3.2	B1/500		
BM (30°-60°)	2724.2	23.4	B3/5000		
BH (60°-80°)	2689.3	23.1	B4/5000		G2/5000
BVH (80°-90°)	34.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	398.8	398.8	398.8	398.8	398.8
2.5°	491.0	459.5	473.9	459.5	491.0
5°	624.1	591.3	562.5	583.2	625.9
7.5°	717.2	668.2	607.5	662.8	713.1
10°	732.9	705.5	702.8	702.4	731.1
12.5°	791.8	773.4	810.3	775.2	793.6
15°	837.7	827.4	844.0	840.4	839.5
17.5°	908.7	838.6	876.4	834.6	906.5
20°	940.2	840.8	904.2	835.9	939.8
22.5°	978.9	893.9	912.8	896.2	975.3
25°	1000.9	928.1	934.8	929.0	1001.4
27.5°	1091.3	1003.6	931.7	1015.8	1107.9
30°	1160.1	1052.6	1005.4	1054.0	1168.6
32.5°	1259.5	1125.9	1107.5	1143.9	1275.2
35°	1382.7	1249.1	1145.7	1249.6	1408.8
37.5°	1624.1	1361.1	1324.7	1400.7	1642.1
40°	1794.6	1537.8	1460.0	1566.1	1823.8
42.5°	2056.3	1736.1	1538.7	1750.5	2101.2
45°	2300.0	1976.7	1789.6	1993.3	2332.8
47.5°	2557.6	2197.4	2127.3	2218.1	2581.9
50°	2862.0	2496.5	2447.4	2519.8	2872.4
52.5°	3221.3	2896.6	2751.9	2910.1	3224.9
55°	3648.0	3232.5	3200.2	3269.4	3653.4
57.5°	4065.3	3667.8	3875.5	3671.8	3992.9
60°	4363.0	4068.9	4430.9	3965.5	4202.4
62.5°	4381.8	4366.1	5122.4	4190.7	4157.5
65°	3973.6	4246.0	5701.6	4108.9	3773.9
67.5°	3127.8	3567.1	5789.2	3497.8	3032.0
70°	1965.4	2469.9	5117.9	2564.8	2021.2
72.5°	906.5	1331.0	3854.0	1498.2	958.2
75°	324.6	509.5	2377.8	547.2	339.5
77.5°	184.4	206.4	1050.8	207.3	190.7
80°	118.7	128.6	303.5	135.8	115.6
82.5°	67.4	89.9	133.1	95.3	62.1
85°	36.4	57.1	58.9	58.5	36.4
87.5°	13.0	22.5	13.0	25.6	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)