

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: P597157

Luminaire Tested: **MSA-SA4D-835-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597157
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-SA4D-835-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23360 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

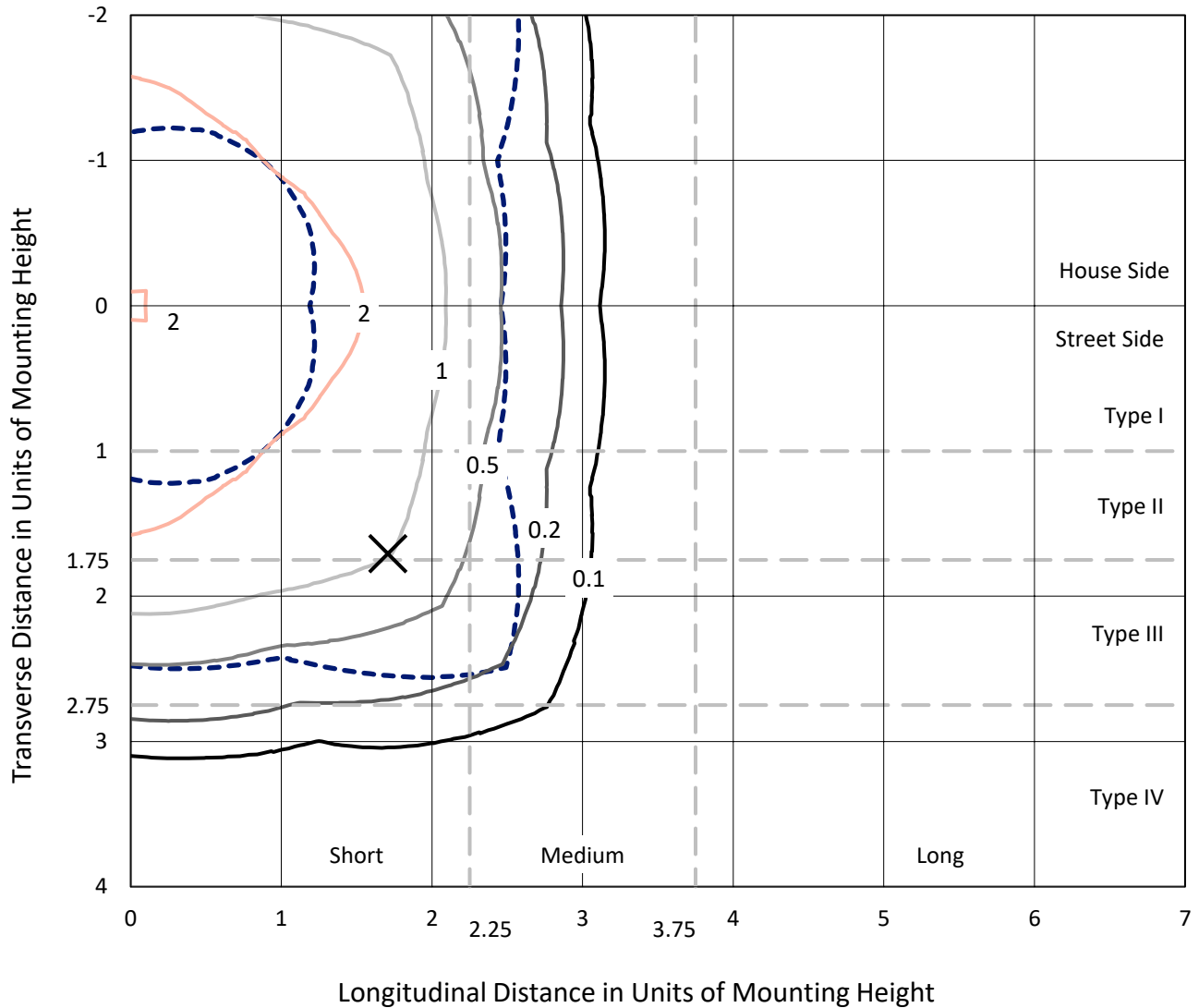
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P597157
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Iso-Footcandle Lines of Horizontal Illumination

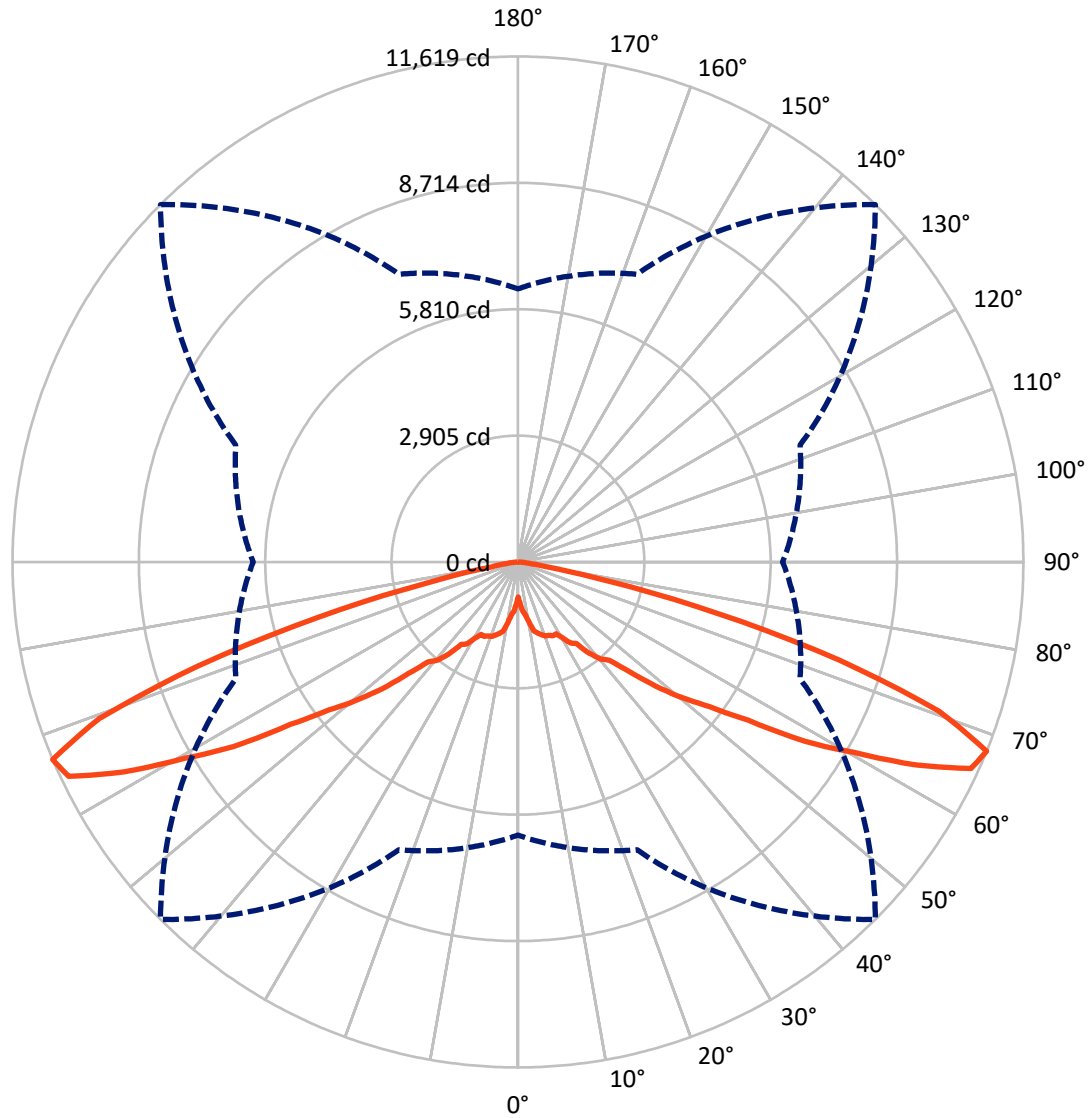
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

REPORT NUMBER: P597157
CATALOG NUMBER: MSA-SA4D-835-U-5MQ

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	11680.0	0.0	11680.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11680.0	0.0	11680.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23360.0	0.0	23360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	0.5
10°-20°	472.0	2.0
20°-30°	900.5	3.9
30°-40°	1646.5	7.0
40°-50°	3192.4	13.7
50°-60°	6096.4	26.1
60°-70°	8236.9	35.3
70°-80°	2558.1	11.0
80°-90°	137.8	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°	23360.0	100.0
0°-180°	23360.0	100.0

Coefficient of Utilization



REPORT NUMBER: P597157

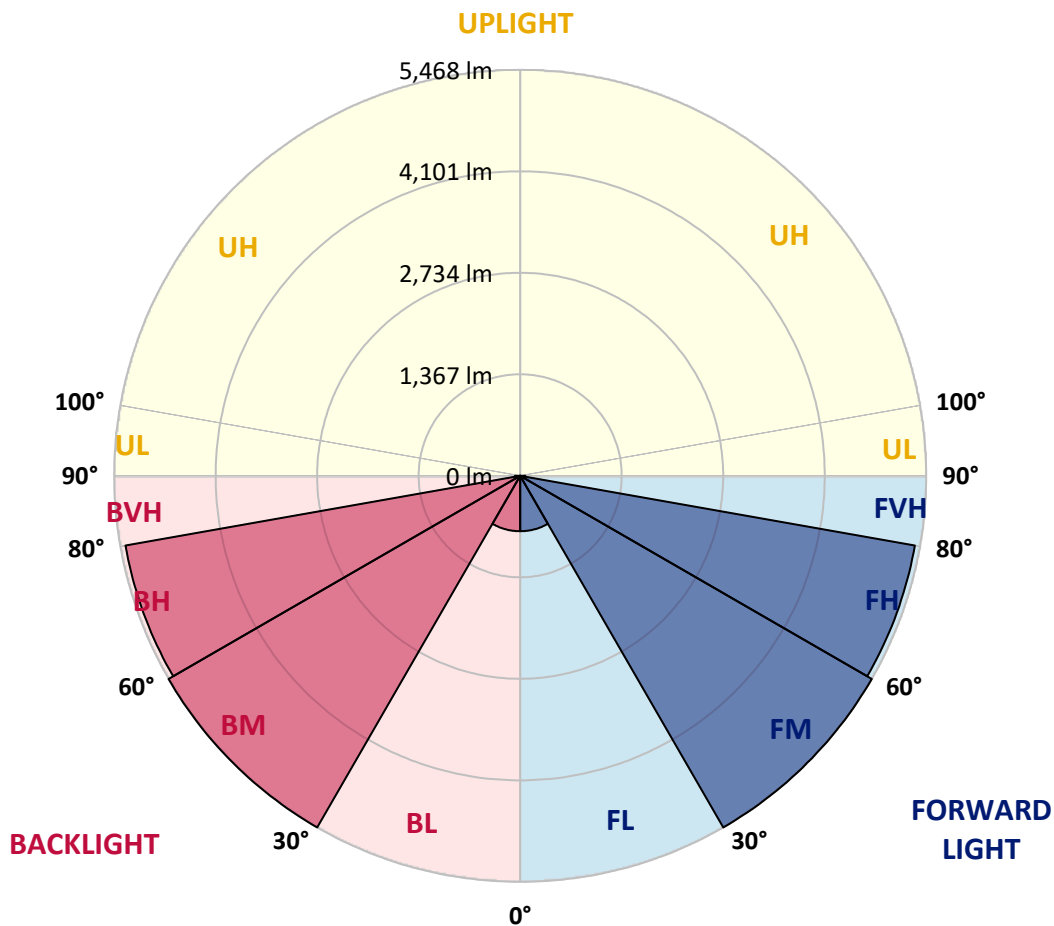
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.0	3.2			
FM (30°-60°)	5467.6	23.4			
FH (60°-80°)	5397.5	23.1			G3/7500
FVH (80°-90°)	68.9	0.3			G1/100
BL (0°-30°)	746.0	3.2	B2/1000		
BM (30°-60°)	5467.6	23.4	B4/8500		
BH (60°-80°)	5397.5	23.1	B5		G3/7500
BVH (80°-90°)	68.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.5	800.5	800.5	800.5	800.5
2.5°	985.5	922.3	951.2	922.3	985.5
5°	1252.6	1186.7	1129.0	1170.5	1256.2
7.5°	1439.4	1341.1	1219.2	1330.2	1431.3
10°	1471.0	1416.0	1410.6	1409.7	1467.4
12.5°	1589.2	1552.2	1626.2	1555.9	1592.9
15°	1681.3	1660.5	1693.9	1686.7	1684.9
17.5°	1823.9	1683.1	1758.9	1675.0	1819.4
20°	1887.1	1687.6	1814.9	1677.7	1886.2
22.5°	1964.7	1794.1	1832.0	1798.6	1957.5
25°	2008.9	1862.7	1876.2	1864.5	2009.8
27.5°	2190.3	2014.3	1869.9	2038.7	2223.7
30°	2328.4	2112.7	2017.9	2115.4	2345.5
32.5°	2527.8	2259.8	2222.8	2295.9	2559.4
35°	2775.1	2507.1	2299.5	2508.0	2827.4
37.5°	3259.7	2731.8	2658.7	2811.2	3295.8
40°	3601.8	3086.4	2930.3	3143.3	3660.4
42.5°	4127.0	3484.4	3088.2	3513.3	4217.2
45°	4616.1	3967.3	3591.8	4000.6	4682.0
47.5°	5133.2	4410.4	4269.6	4451.9	5182.0
50°	5744.2	5010.5	4912.1	5057.4	5765.0
52.5°	6465.3	5813.7	5523.1	5840.8	6472.5
55°	7321.7	6487.8	6422.9	6561.8	7332.6
57.5°	8159.2	7361.4	7778.4	7369.6	8013.9
60°	8756.7	8166.4	8892.9	7958.9	8434.5
62.5°	8794.6	8763.0	10280.9	8411.0	8344.2
65°	7975.1	8522.0	11443.3	8246.8	7574.4
67.5°	6277.6	7159.3	11619.3	7020.3	6085.3
70°	3944.7	4957.3	10271.9	5147.7	4056.6
72.5°	1819.4	2671.3	7735.1	3007.0	1923.2
75°	651.6	1022.5	4772.3	1098.3	681.4
77.5°	370.0	414.2	2109.1	416.0	382.6
80°	238.3	258.1	609.2	272.5	231.9
82.5°	135.4	180.5	267.1	191.3	124.5
85°	73.1	114.6	118.2	117.3	73.1
87.5°	26.2	45.1	26.2	51.4	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)