

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: P596783

Luminaire Tested: **MSA-SA4C-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596783
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-SA4C-827-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: 19052 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

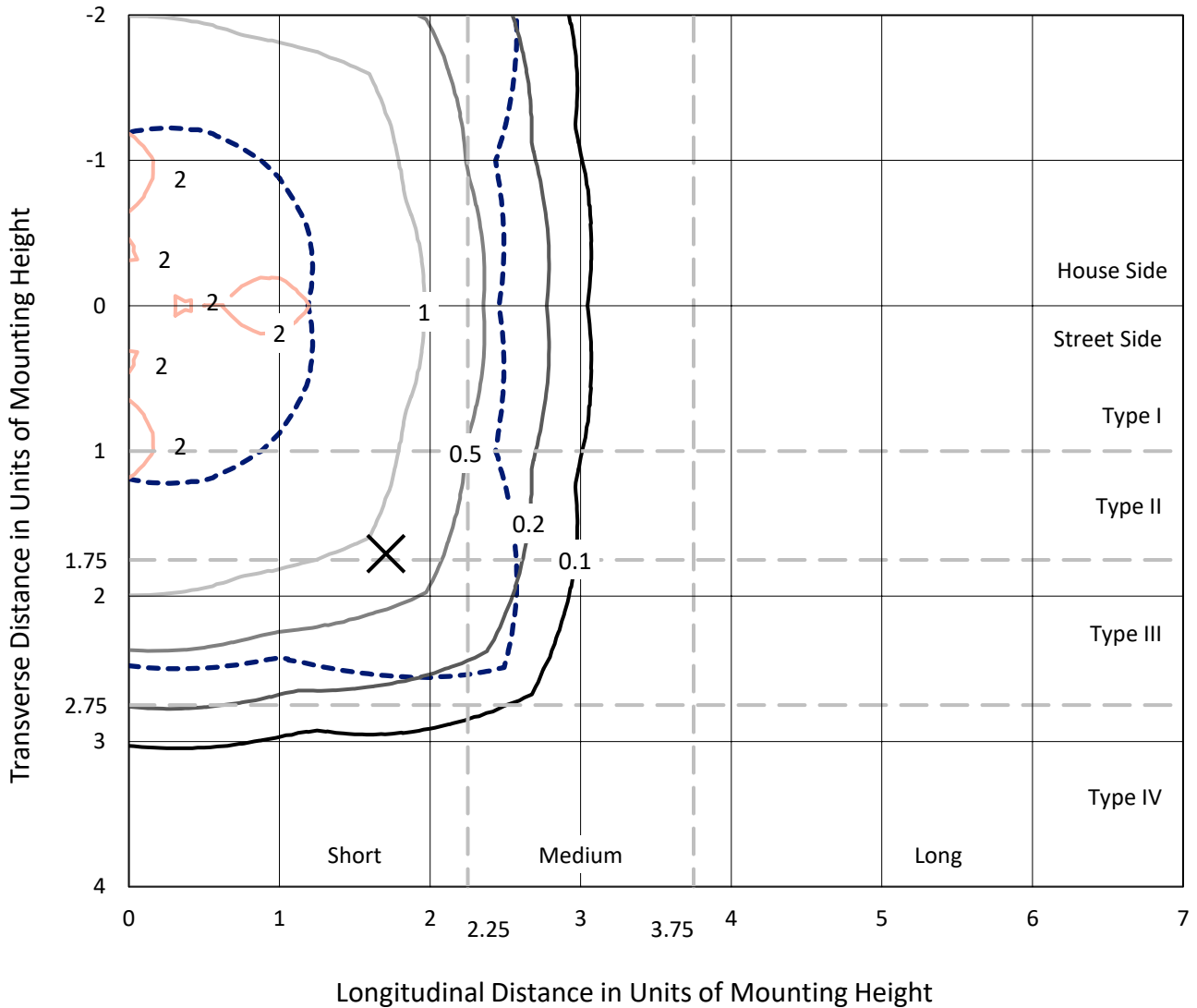
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

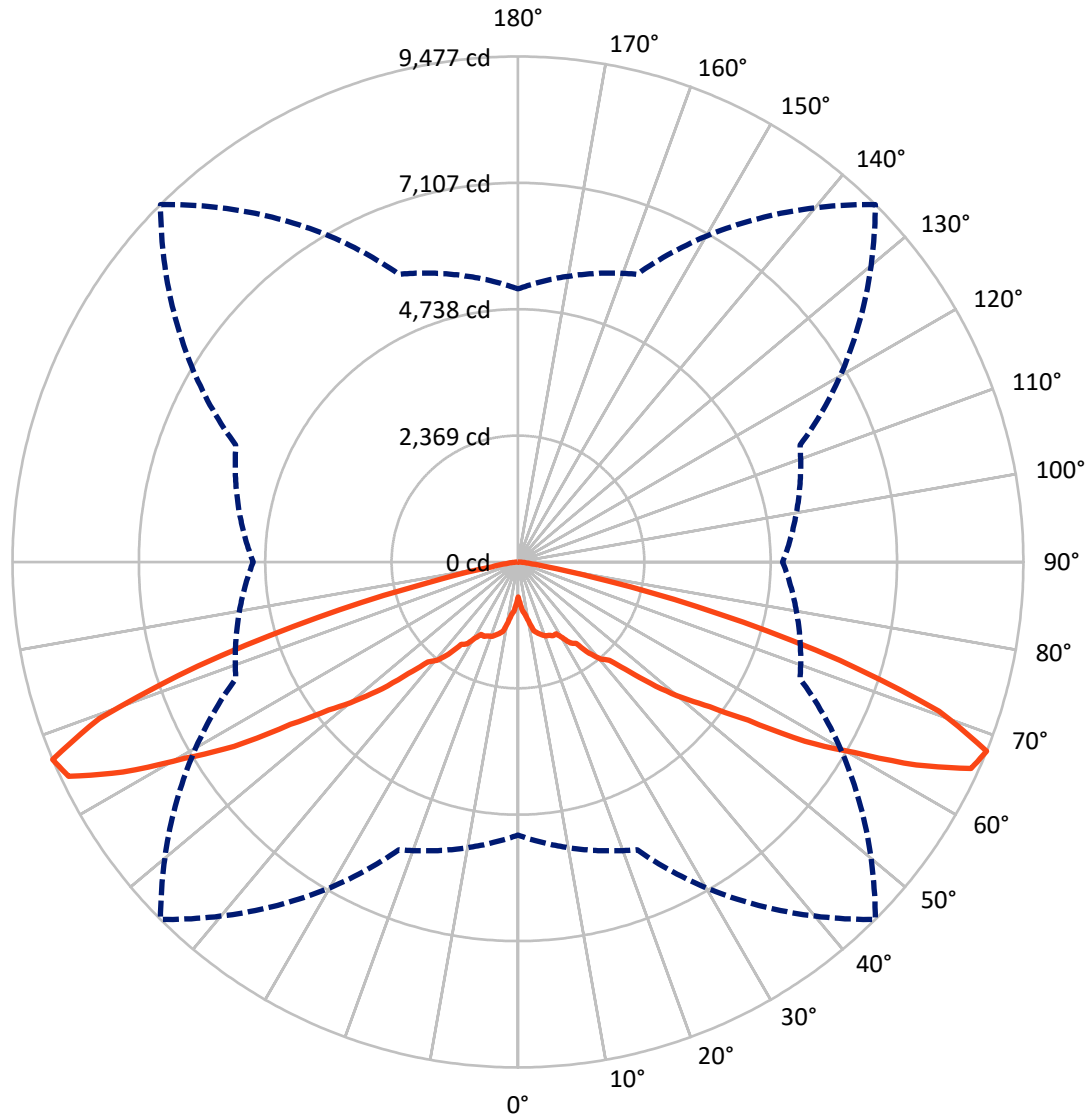
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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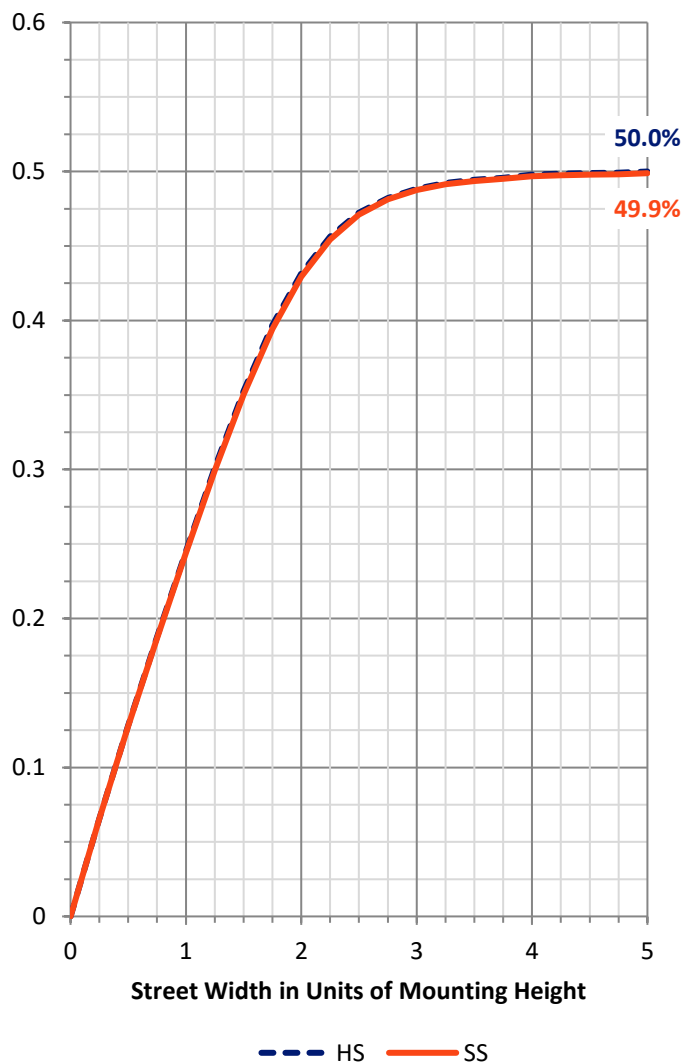
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9526.0	0.0	9526.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9526.0	0.0	9526.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19052.0	0.0	19052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	0.5
10°-20°	384.9	2.0
20°-30°	734.5	3.9
30°-40°	1342.8	7.0
40°-50°	2603.7	13.7
50°-60°	4972.1	26.1
60°-70°	6717.9	35.3
70°-80°	2086.4	11.0
80°-90°	112.4	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°	19052.0	100.0
0°-180°	19052.0	100.0

Coefficient of Utilization



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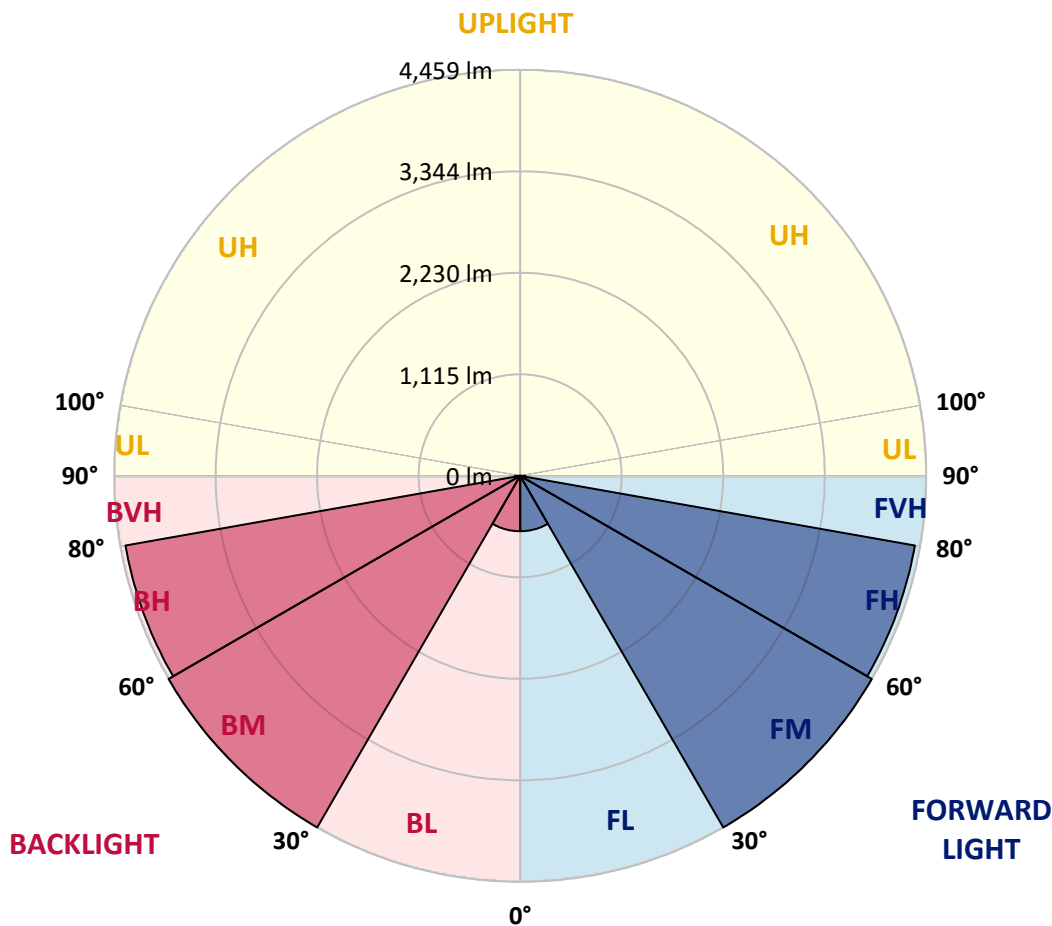
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.4	3.2			
FM (30°-60°)	4459.3	23.4			
FH (60°-80°)	4402.1	23.1			G2/5000
FVH (80°-90°)	56.2	0.3			G1/100
BL (0°-30°)	608.4	3.2	B2/1000		
BM (30°-60°)	4459.3	23.4	B3/5000		
BH (60°-80°)	4402.1	23.1	B4/5000		G2/5000
BVH (80°-90°)	56.2	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°	652.9	652.9	652.9	652.9	652.9
2.5°	803.8	752.2	775.8	752.2	803.8
5°	1021.6	967.9	920.8	954.6	1024.6
7.5°	1174.0	1093.8	994.4	1084.9	1167.4
10°	1199.7	1154.8	1150.4	1149.7	1196.8
12.5°	1296.2	1266.0	1326.3	1268.9	1299.1
15°	1371.2	1354.3	1381.5	1375.7	1374.2
17.5°	1487.5	1372.7	1434.5	1366.1	1483.9
20°	1539.1	1376.4	1480.2	1368.3	1538.3
22.5°	1602.4	1463.2	1494.2	1466.9	1596.5
25°	1638.4	1519.2	1530.2	1520.7	1639.2
27.5°	1786.4	1642.8	1525.1	1662.7	1813.6
30°	1899.0	1723.1	1645.8	1725.3	1913.0
32.5°	2061.6	1843.0	1812.9	1872.5	2087.4
35°	2263.3	2044.7	1875.4	2045.4	2306.0
37.5°	2658.6	2228.0	2168.4	2292.8	2688.0
40°	2937.5	2517.2	2389.9	2563.6	2985.4
42.5°	3365.9	2841.8	2518.7	2865.4	3439.5
45°	3764.8	3235.6	2929.4	3262.9	3818.6
47.5°	4186.6	3597.0	3482.2	3630.9	4226.3
50°	4684.9	4086.5	4006.3	4124.8	4701.8
52.5°	5273.0	4741.6	4504.5	4763.6	5278.9
55°	5971.5	5291.4	5238.4	5351.7	5980.3
57.5°	6654.5	6003.9	6343.9	6010.5	6536.0
60°	7141.8	6660.4	7252.9	6491.1	6879.0
62.5°	7172.7	7146.9	8384.9	6859.9	6805.4
65°	6504.4	6950.4	9333.0	6725.9	6177.6
67.5°	5119.9	5839.0	9476.5	5725.6	4963.1
70°	3217.2	4043.1	8377.6	4198.4	3308.5
72.5°	1483.9	2178.7	6308.6	2452.5	1568.5
75°	531.4	833.9	3892.2	895.8	555.7
77.5°	301.8	337.8	1720.1	339.3	312.1
80°	194.3	210.5	496.8	222.3	189.2
82.5°	110.4	147.2	217.9	156.0	101.6
85°	59.6	93.5	96.4	95.7	59.6
87.5°	21.3	36.8	21.3	42.0	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)