

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: P596519

Luminaire Tested: **MSA-SA1C-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596519
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-SA1C-827-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4966 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

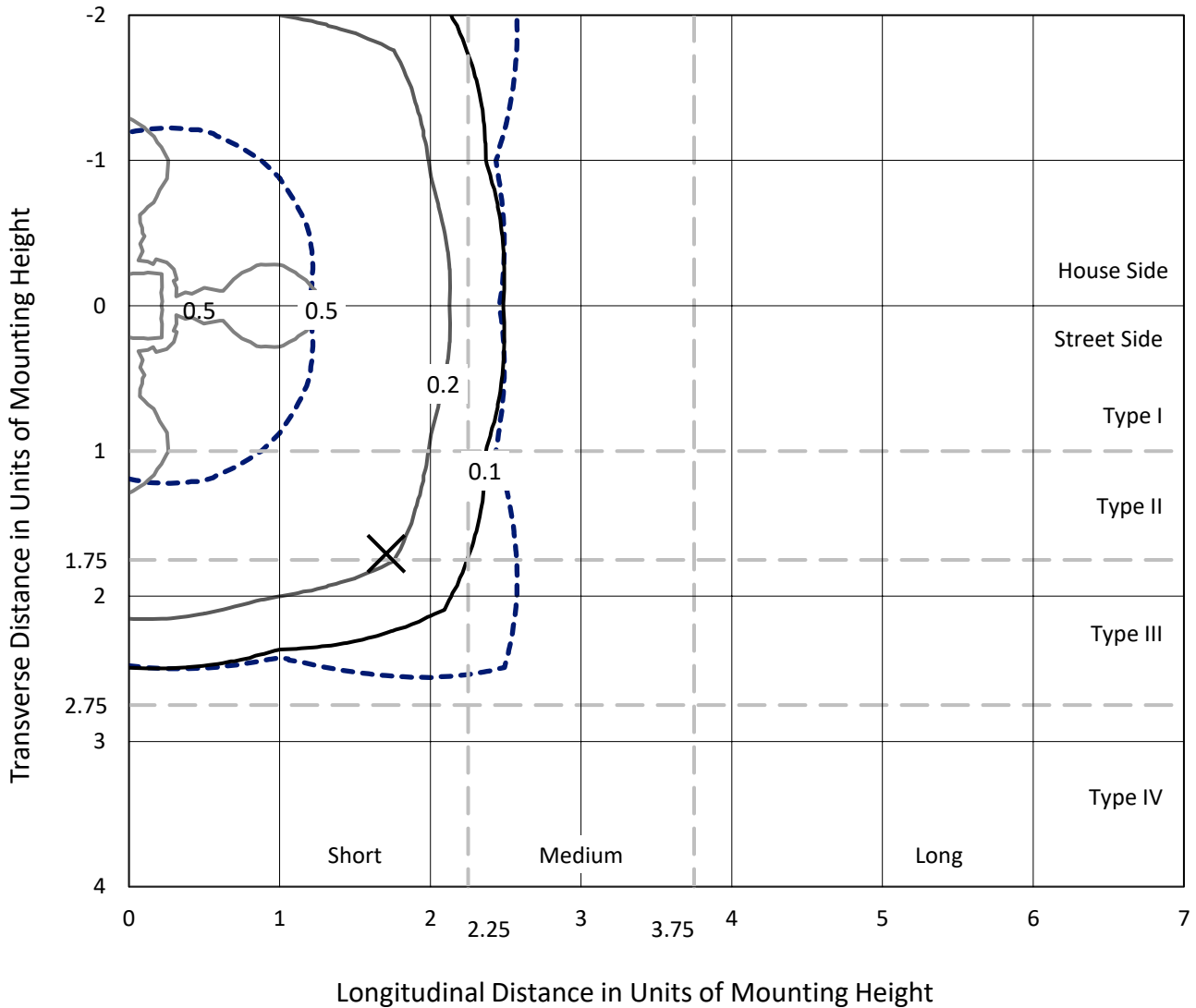
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

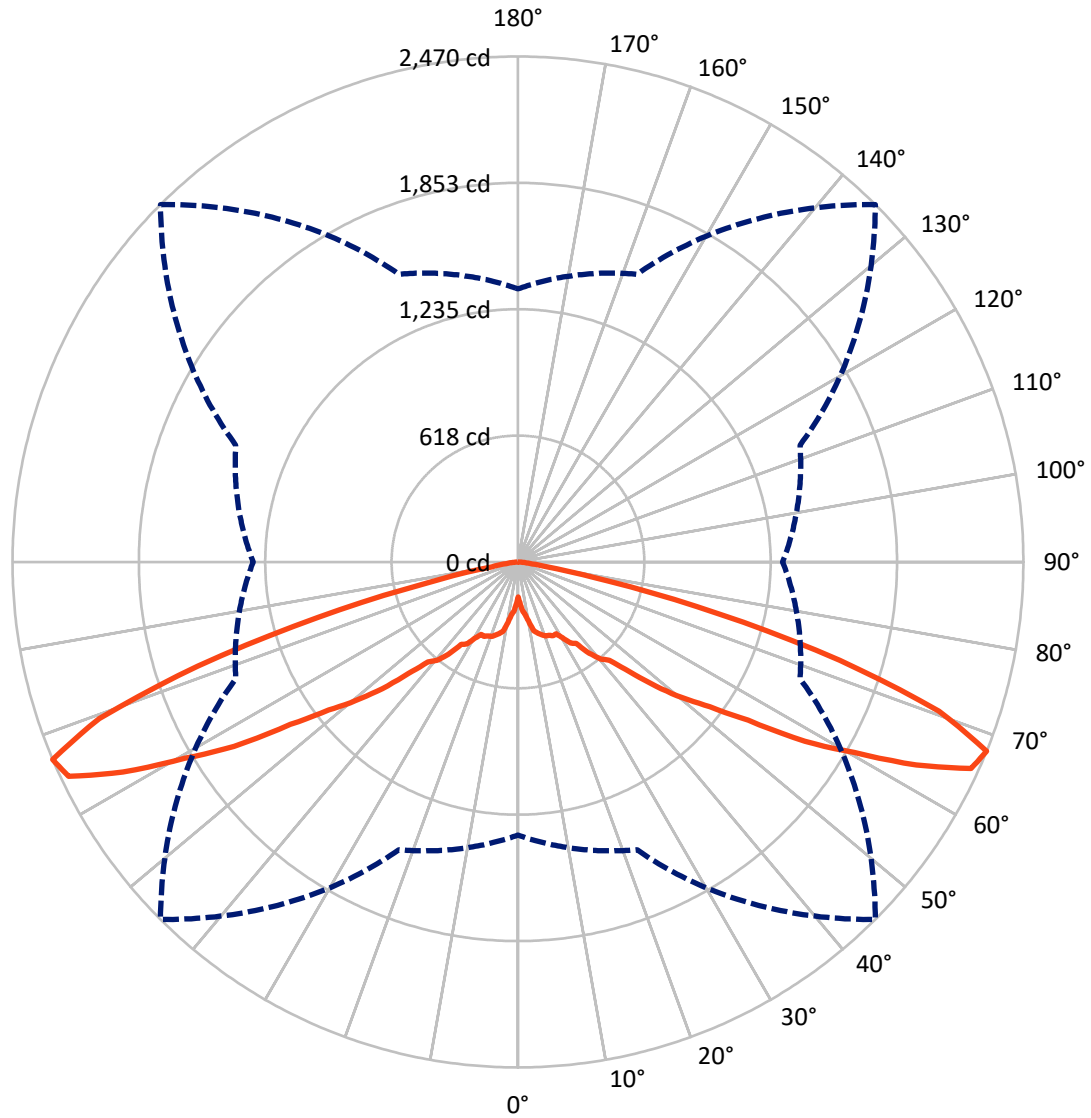
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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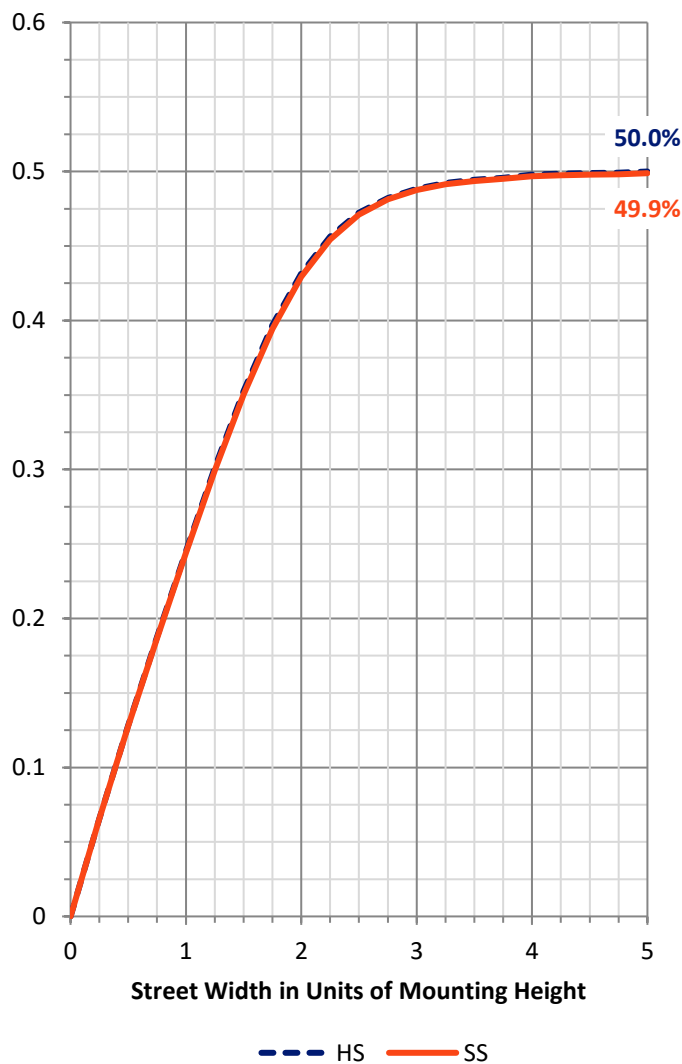
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2483.0	0.0	2483.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2483.0	0.0	2483.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4966.0	0.0	4966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	0.5
10°-20°	100.3	2.0
20°-30°	191.4	3.9
30°-40°	350.0	7.0
40°-50°	678.7	13.7
50°-60°	1296.0	26.1
60°-70°	1751.1	35.3
70°-80°	543.8	11.0
80°-90°	29.3	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°	4966.0	100.0
0°-180°	4966.0	100.0

Coefficient of Utilization

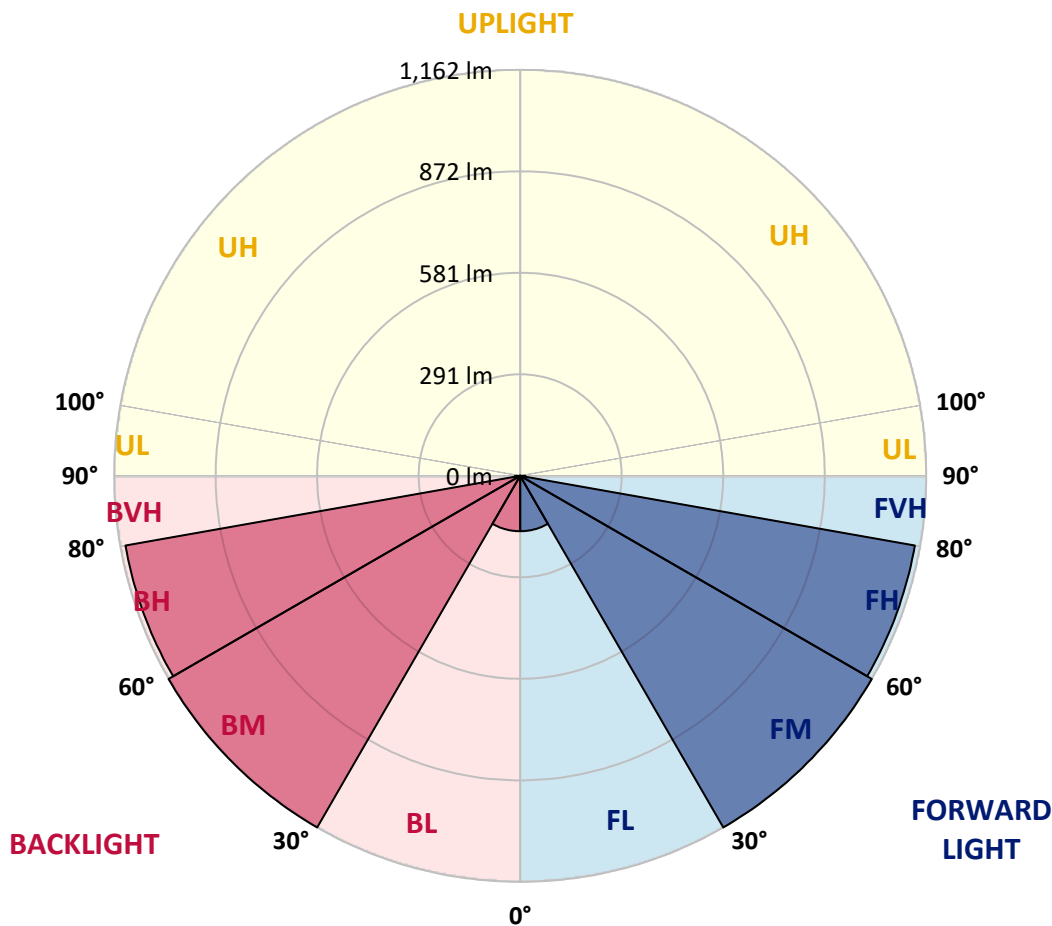


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.6	3.2			
FM (30°-60°)	1162.3	23.4			
FH (60°-80°)	1147.4	23.1			G1/1800
FVH (80°-90°)	14.7	0.3			G1/100
BL (0°-30°)	158.6	3.2	B1/500		
BM (30°-60°)	1162.3	23.4	B2/2500		
BH (60°-80°)	1147.4	23.1	B3/2500		G1/1800
BVH (80°-90°)	14.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	170.2	170.2	170.2	170.2	170.2
2.5°	209.5	196.1	202.2	196.1	209.5
5°	266.3	252.3	240.0	248.8	267.1
7.5°	306.0	285.1	259.2	282.8	304.3
10°	312.7	301.0	299.9	299.7	312.0
12.5°	337.9	330.0	345.7	330.8	338.6
15°	357.4	353.0	360.1	358.6	358.2
17.5°	387.7	357.8	373.9	356.1	386.8
20°	401.2	358.8	385.8	356.7	401.0
22.5°	417.7	381.4	389.5	382.4	416.1
25°	427.1	396.0	398.9	396.4	427.3
27.5°	465.6	428.2	397.5	433.4	472.7
30°	495.0	449.1	429.0	449.7	498.6
32.5°	537.4	480.4	472.5	488.1	544.1
35°	589.9	533.0	488.8	533.2	601.1
37.5°	693.0	580.7	565.2	597.6	700.6
40°	765.7	656.1	622.9	668.2	778.2
42.5°	877.3	740.7	656.5	746.9	896.5
45°	981.3	843.4	763.6	850.5	995.3
47.5°	1091.3	937.6	907.7	946.4	1101.6
50°	1221.1	1065.2	1044.2	1075.1	1225.5
52.5°	1374.4	1235.9	1174.1	1241.7	1376.0
55°	1556.5	1379.2	1365.4	1395.0	1558.8
57.5°	1734.5	1564.9	1653.6	1566.7	1703.6
60°	1861.5	1736.1	1890.5	1691.9	1793.0
62.5°	1869.6	1862.9	2185.6	1788.1	1773.9
65°	1695.4	1811.7	2432.7	1753.1	1610.2
67.5°	1334.5	1522.0	2470.1	1492.4	1293.7
70°	838.6	1053.8	2183.7	1094.3	862.4
72.5°	386.8	567.9	1644.4	639.3	408.8
75°	138.5	217.4	1014.5	233.5	144.8
77.5°	78.7	88.1	448.4	88.4	81.3
80°	50.6	54.9	129.5	57.9	49.3
82.5°	28.8	38.4	56.8	40.7	26.5
85°	15.5	24.4	25.1	24.9	15.5
87.5°	5.6	9.6	5.6	10.9	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)