

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: P596541

Luminaire Tested: **MSA-SA1D-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596541
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-SA1D-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: 5430 lumens
Efficiency: N/A
Efficacy: 81.0 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

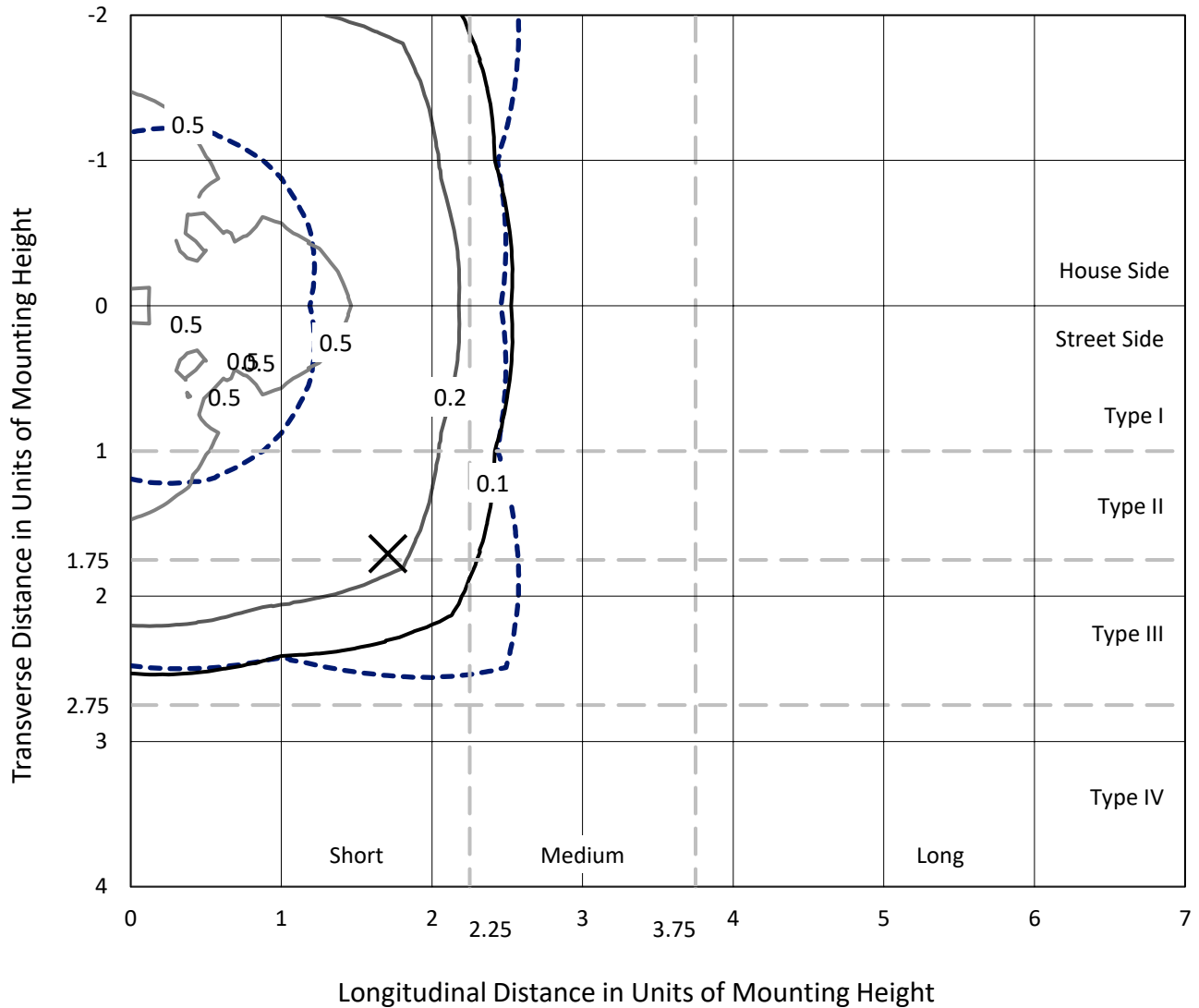
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P596541
 CATALOG NUMBER: MSA-SA1D-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

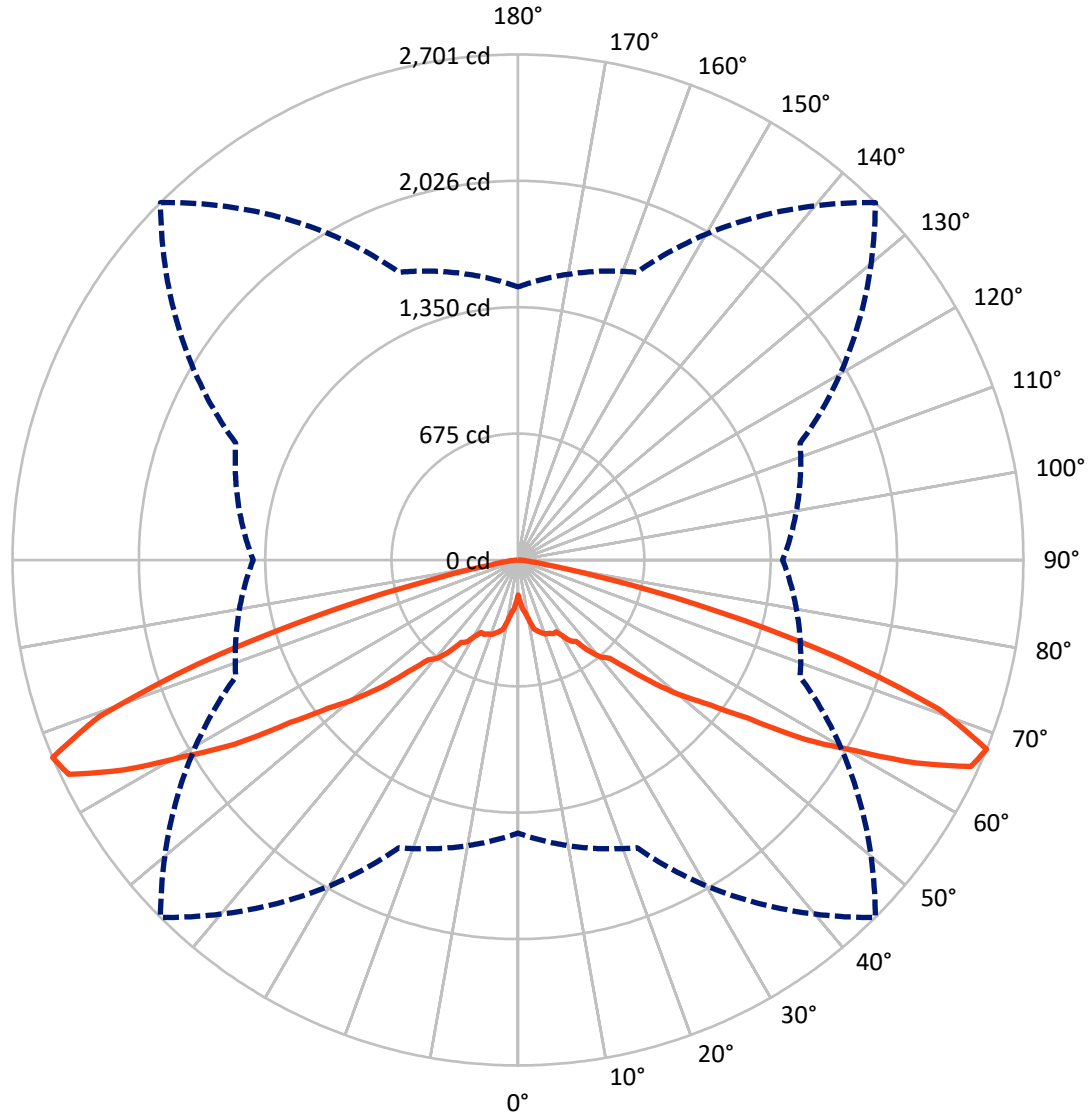
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - N/A

REPORT NUMBER: P596541
CATALOG NUMBER: MSA-SA1D-827-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: MSA-SA1D-827-U-5MQ

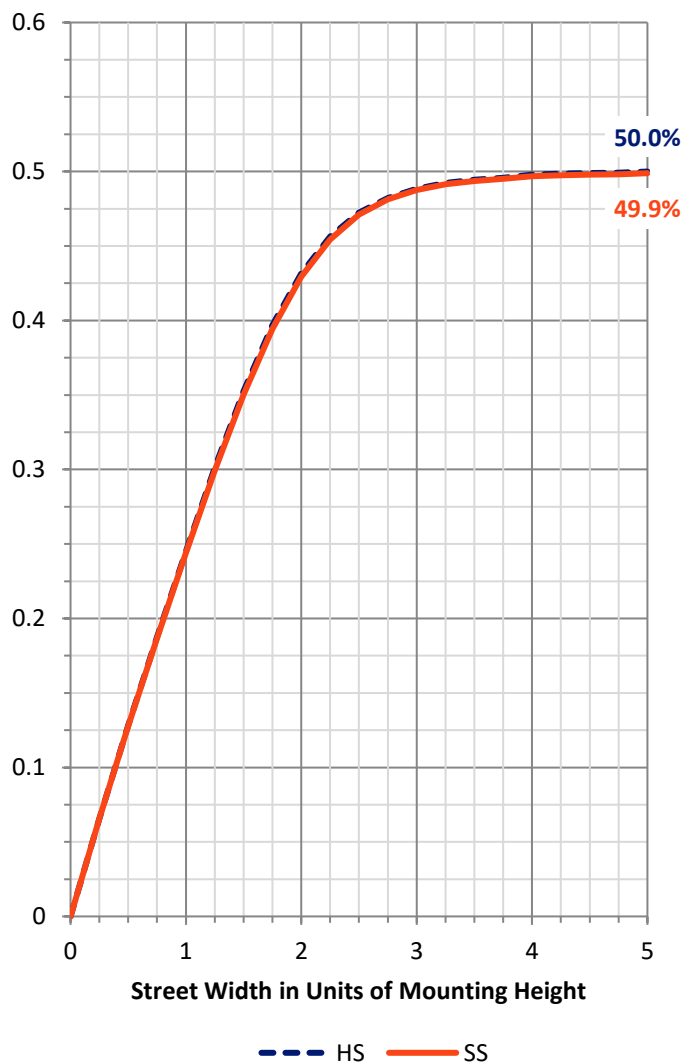
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2715.0	0.0	2715.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2715.0	0.0	2715.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5430.0	0.0	5430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.7	0.5
10°-20°	109.7	2.0
20°-30°	209.3	3.9
30°-40°	382.7	7.0
40°-50°	742.1	13.7
50°-60°	1417.1	26.1
60°-70°	1914.7	35.3
70°-80°	594.6	11.0
80°-90°	32.0	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°	5430.0	100.0
0°-180°	5430.0	100.0

Coefficient of Utilization



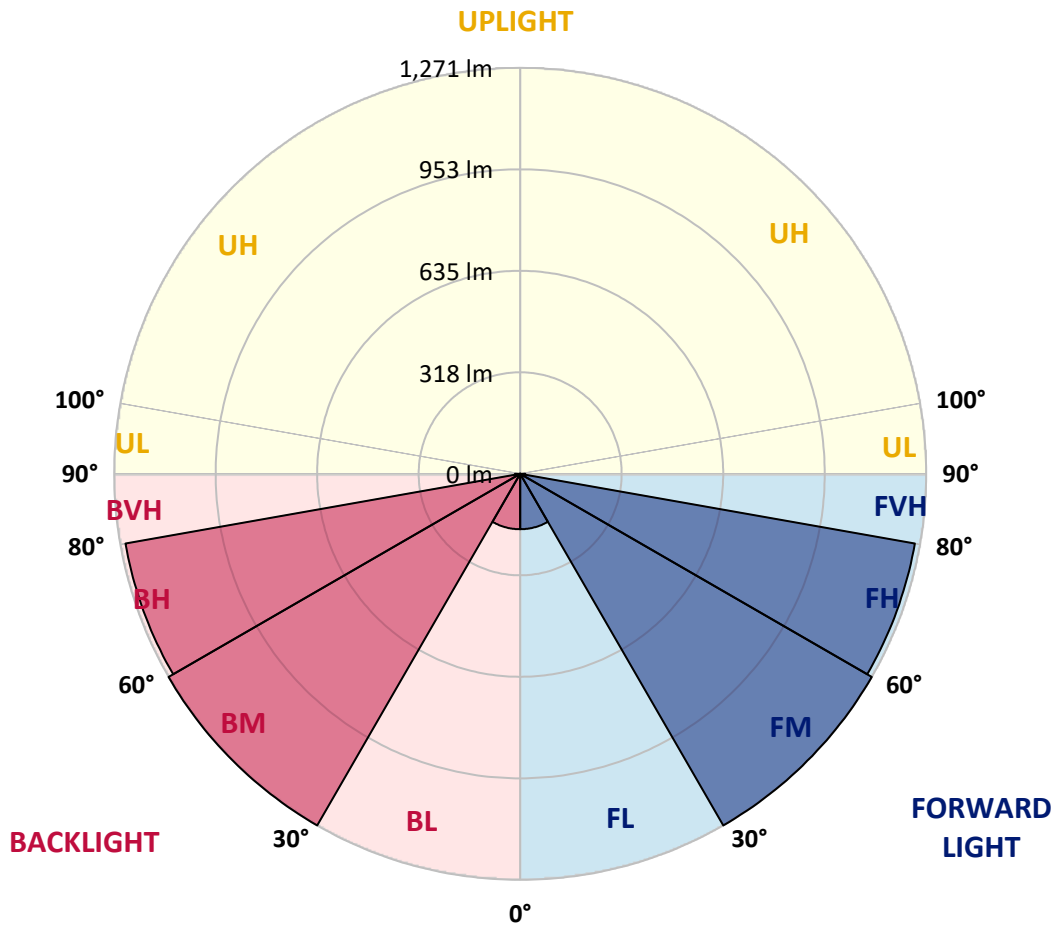
REPORT NUMBER: P596541
 CATALOG NUMBER: MSA-SA1D-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.4	3.2			
FM (30°-60°)	1270.9	23.4			
FH (60°-80°)	1254.6	23.1			G1/1800
FVH (80°-90°)	16.0	0.3			G1/100
BL (0°-30°)	173.4	3.2	B1/500		
BM (30°-60°)	1270.9	23.4	B2/2500		
BH (60°-80°)	1254.6	23.1	B3/2500		G1/1800
BVH (80°-90°)	16.0	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°	186.1	186.1	186.1	186.1	186.1
2.5°	229.1	214.4	221.1	214.4	229.1
5°	291.2	275.9	262.4	272.1	292.0
7.5°	334.6	311.7	283.4	309.2	332.7
10°	341.9	329.1	327.9	327.7	341.1
12.5°	369.4	360.8	378.0	361.7	370.3
15°	390.8	386.0	393.8	392.1	391.7
17.5°	424.0	391.2	408.9	389.3	422.9
20°	438.6	392.3	421.9	390.0	438.4
22.5°	456.7	417.0	425.8	418.1	455.0
25°	467.0	433.0	436.1	433.4	467.2
27.5°	509.1	468.2	434.7	473.9	516.9
30°	541.2	491.1	469.1	491.7	545.2
32.5°	587.6	525.3	516.7	533.7	594.9
35°	645.1	582.8	534.5	583.0	657.2
37.5°	757.7	635.0	618.0	653.5	766.1
40°	837.2	717.4	681.1	730.7	850.9
42.5°	959.3	810.0	717.9	816.7	980.3
45°	1073.0	922.2	834.9	929.9	1088.3
47.5°	1193.2	1025.2	992.5	1034.8	1204.5
50°	1335.2	1164.7	1141.8	1175.6	1340.1
52.5°	1502.8	1351.4	1283.8	1357.7	1504.5
55°	1701.9	1508.1	1493.0	1525.3	1704.4
57.5°	1896.6	1711.2	1808.1	1713.0	1862.8
60°	2035.5	1898.3	2067.1	1850.0	1960.6
62.5°	2044.3	2036.9	2389.8	1955.1	1939.6
65°	1853.8	1980.9	2660.0	1916.9	1760.7
67.5°	1459.2	1664.2	2700.9	1631.9	1414.5
70°	916.9	1152.3	2387.7	1196.6	943.0
72.5°	422.9	620.9	1798.0	699.0	447.0
75°	151.5	237.7	1109.3	255.3	158.4
77.5°	86.0	96.3	490.3	96.7	88.9
80°	55.4	60.0	141.6	63.4	53.9
82.5°	31.5	42.0	62.1	44.5	28.9
85°	17.0	26.6	27.5	27.3	17.0
87.5°	6.1	10.5	6.1	12.0	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)