

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: P596499

Luminaire Tested: **MSA-SA1B-827-U-5WQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA1B-827-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3994 lumens
Efficiency: N/A
Efficacy: 90.8 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

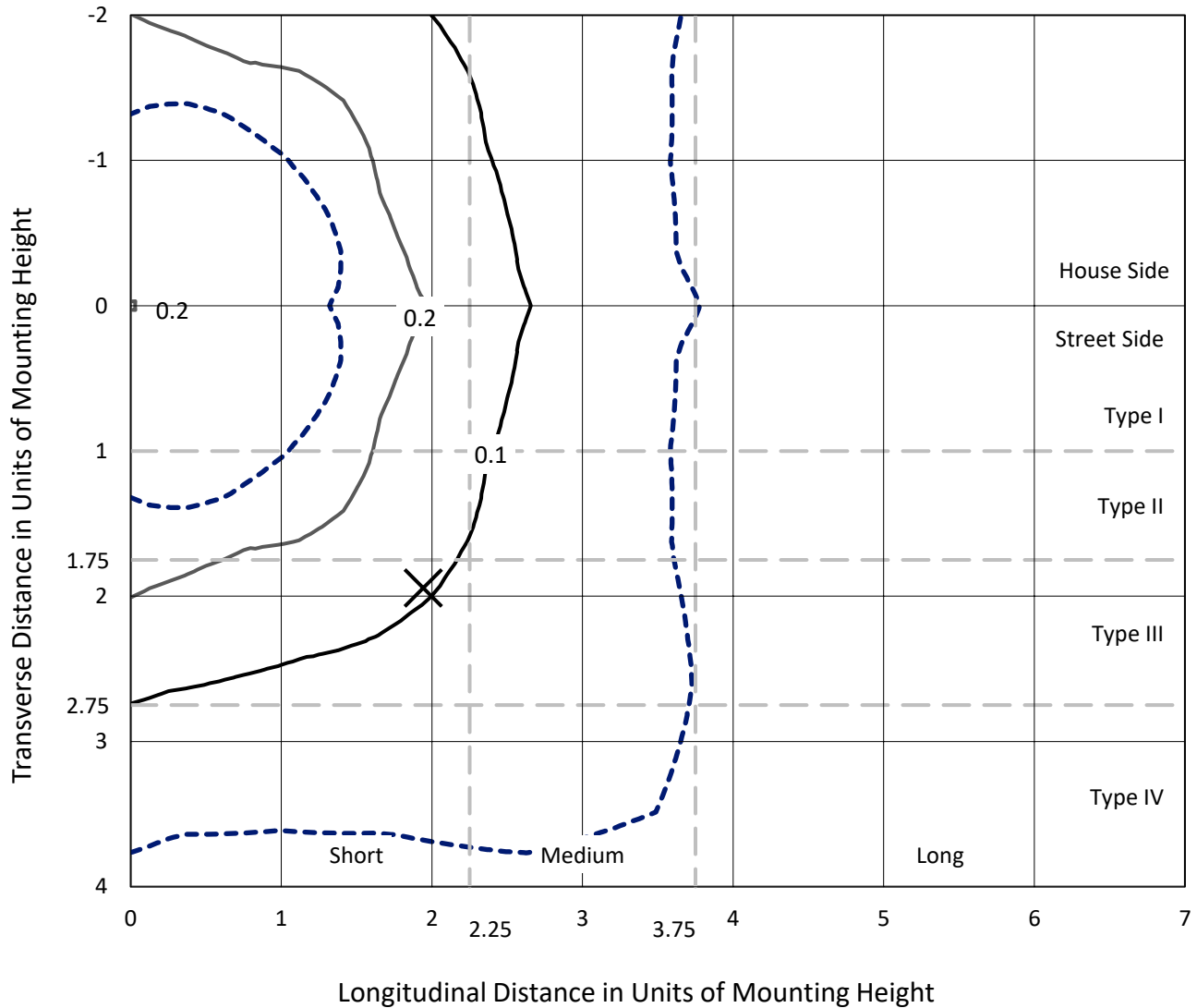
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P596499
 CATALOG NUMBER: MSA-SA1B-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

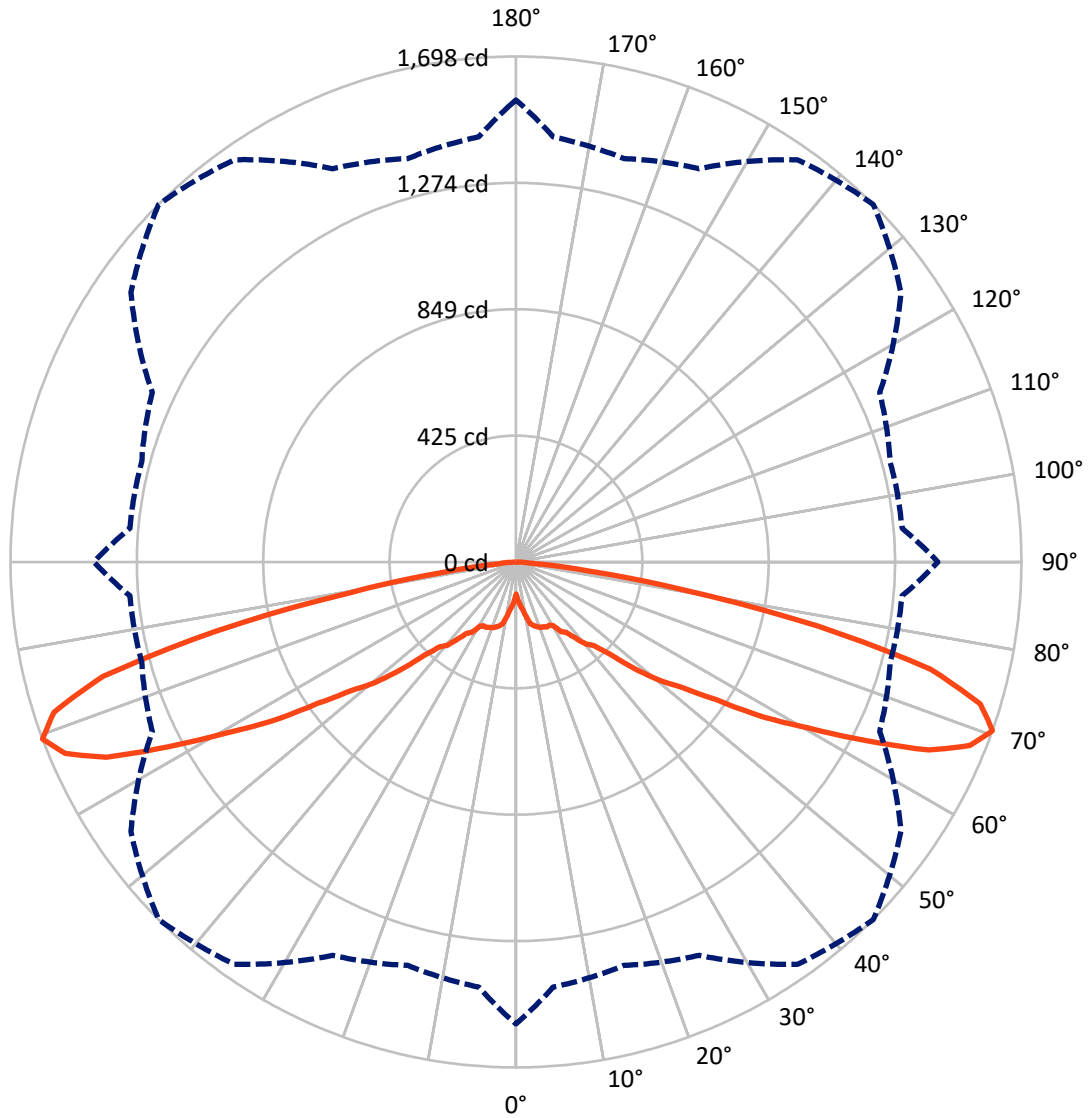
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 fc
 Type V - Short - N/A

REPORT NUMBER: P596499
CATALOG NUMBER: MSA-SA1B-827-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P596499
 CATALOG NUMBER: MSA-SA1B-827-U-5WQ

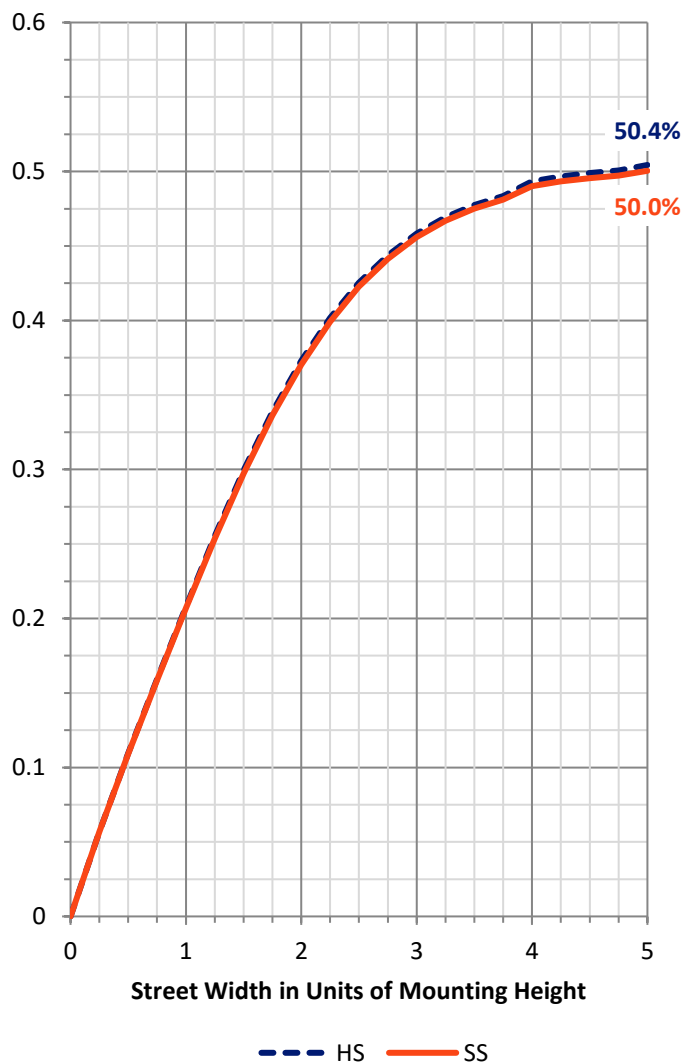
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1997.0	0.0	1997.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1997.0	0.0	1997.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3994.0	0.0	3994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	0.4
10°-20°	62.9	1.6
20°-30°	118.9	3.0
30°-40°	207.0	5.2
40°-50°	395.8	9.9
50°-60°	767.5	19.2
60°-70°	1343.9	33.6
70°-80°	1010.0	25.3
80°-90°	72.3	1.8
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°	3994.0	100.0
0°-180°	3994.0	100.0

Coefficient of Utilization

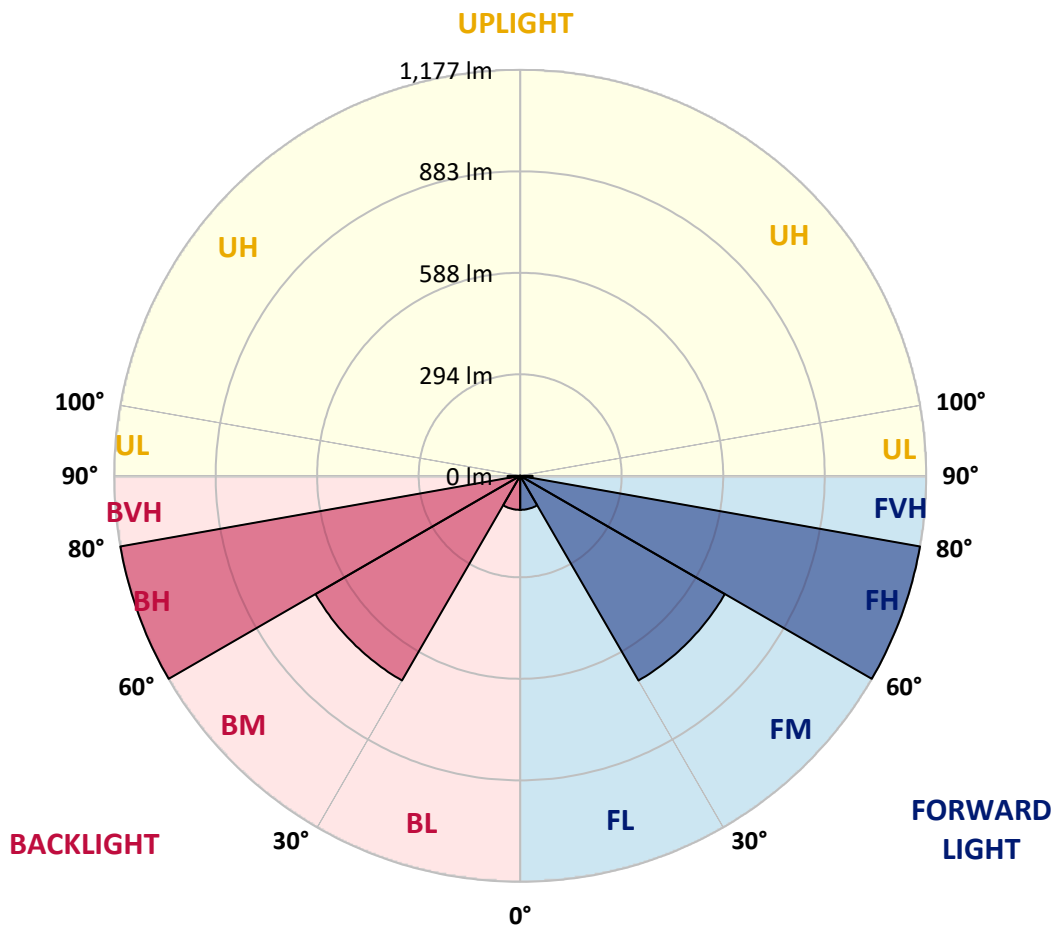


REPORT NUMBER: P596499
 CATALOG NUMBER: MSA-SA1B-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	98.7	2.5			
FM (30°-60°)	685.2	17.2			
FH (60°-80°)	1177.0	29.5			G1/1800
FVH (80°-90°)	36.1	0.9			G1/100
BL (0°-30°)	98.7	2.5	B0/110		
BM (30°-60°)	685.2	17.2	B1/1000		
BH (60°-80°)	1177.0	29.5	B3/2500		G1/1800
BVH (80°-90°)	36.1	0.9			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





REPORT NUMBER: P596499
 CATALOG NUMBER: MSA-SA1B-827-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
2.5°	131.4	129.4	123.0	123.3	126.3	126.6	126.9	123.0	122.1	130.0	130.5
5°	166.9	162.2	157.6	155.7	152.9	145.2	153.7	154.6	156.5	162.5	165.3
7.5°	190.6	184.8	178.5	174.6	167.0	160.7	167.6	173.4	177.1	183.9	187.8
10°	195.1	191.7	191.4	184.5	183.1	185.5	185.0	185.2	190.7	190.9	193.2
12.5°	209.2	211.7	206.8	204.5	205.9	211.7	207.0	205.0	206.4	212.7	210.1
15°	227.6	230.6	223.3	219.6	215.8	221.3	216.5	220.0	224.5	229.2	226.8
17.5°	248.1	248.2	238.3	224.5	227.8	228.5	226.8	223.9	236.8	247.9	246.8
20°	259.2	259.1	242.0	223.3	232.9	234.6	233.0	223.0	242.3	257.7	257.2
22.5°	270.7	267.3	246.8	231.6	235.2	236.6	233.0	232.1	246.8	268.2	268.1
25°	276.9	279.8	257.4	247.9	245.0	241.7	244.8	246.4	260.5	281.4	275.3
27.5°	296.2	291.4	260.5	259.5	253.3	240.5	251.2	258.8	259.5	293.3	299.5
30°	313.8	315.6	274.4	275.8	264.5	248.2	264.8	276.9	279.2	315.9	315.3
32.5°	332.4	333.1	299.2	284.8	280.0	279.4	273.0	283.5	301.8	331.3	332.5
35°	360.6	366.9	321.4	302.0	295.9	289.7	295.3	304.8	321.8	366.0	362.9
37.5°	425.2	415.1	369.5	329.4	325.4	322.9	327.4	334.2	369.1	416.2	430.6
40°	470.3	465.4	403.5	374.8	349.4	362.7	352.2	378.5	407.3	465.8	475.1
42.5°	540.1	518.7	455.1	419.6	393.2	383.8	389.7	424.1	460.8	525.9	544.2
45°	607.2	574.2	519.7	488.4	448.4	438.5	446.4	486.8	529.3	580.7	613.0
47.5°	675.7	641.6	581.7	536.4	503.7	533.3	507.4	545.9	588.2	648.0	676.6
50°	746.8	709.0	649.8	600.6	597.8	624.0	593.0	612.6	651.8	713.8	747.6
52.5°	828.5	787.7	728.5	695.2	701.7	700.0	693.8	690.3	728.8	789.7	829.9
55°	925.6	881.6	834.4	819.0	837.0	817.6	826.8	825.5	831.1	874.6	921.6
57.5°	1043.1	993.3	945.9	942.5	965.6	983.9	967.6	944.2	934.5	976.8	1030.5
60°	1191.0	1130.0	1077.9	1067.2	1133.1	1132.9	1118.2	1065.8	1062.1	1110.0	1174.8
62.5°	1354.5	1280.1	1223.3	1206.2	1309.4	1321.0	1275.2	1181.3	1200.5	1239.1	1315.9
65°	1493.3	1403.9	1350.9	1346.3	1472.4	1523.7	1422.4	1293.9	1300.1	1332.2	1415.4
67.5°	1583.8	1476.1	1434.0	1456.5	1613.3	1645.3	1551.1	1369.2	1347.2	1360.5	1460.0
70°	1552.1	1433.7	1403.3	1457.9	1649.7	1698.2	1578.9	1348.2	1301.4	1302.0	1417.6
72.5°	1311.4	1198.8	1213.2	1313.3	1563.5	1631.5	1450.6	1217.7	1121.9	1119.6	1224.5
75°	867.2	791.9	848.8	1004.8	1299.8	1439.0	1201.9	954.4	834.4	795.3	876.4
77.5°	379.3	369.7	417.6	593.9	886.1	1037.0	861.0	623.5	453.8	377.4	412.3
80°	101.6	99.5	124.9	225.3	431.4	571.1	465.9	248.7	129.8	94.5	100.2
82.5°	37.0	38.0	46.3	63.1	142.1	240.5	154.8	72.7	49.1	40.3	40.3
85°	16.1	15.6	22.5	25.3	38.7	54.4	44.5	30.8	24.8	18.6	17.8
87.5°	4.3	5.4	7.6	7.9	10.1	8.2	11.8	10.8	9.3	6.5	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)