

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: P596476

Luminaire Tested: **MSA-SA1A-827-U-5NQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA1A-827-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3040 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B1 - U0 - G0

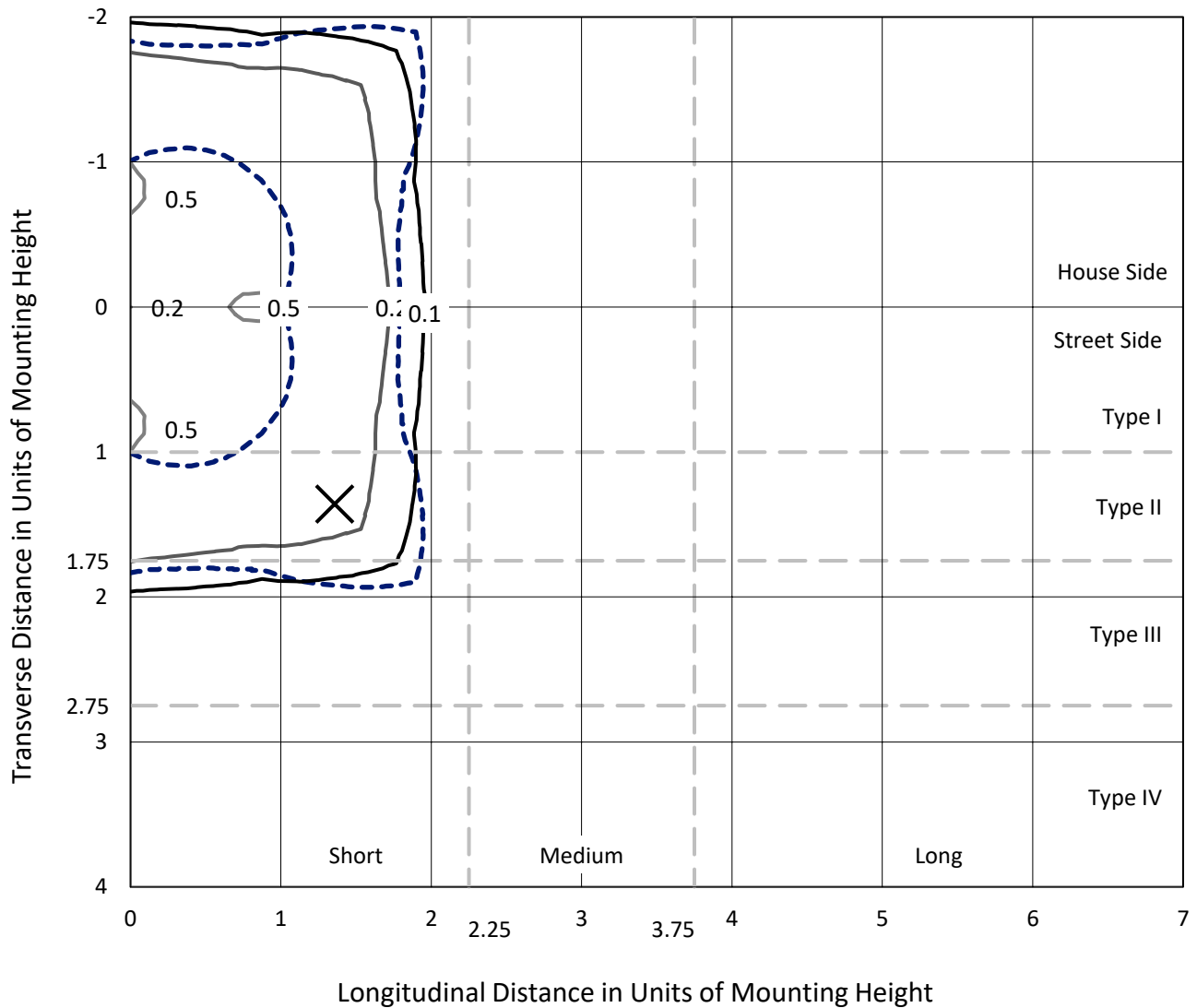
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P596476
 CATALOG NUMBER: MSA-SA1A-827-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

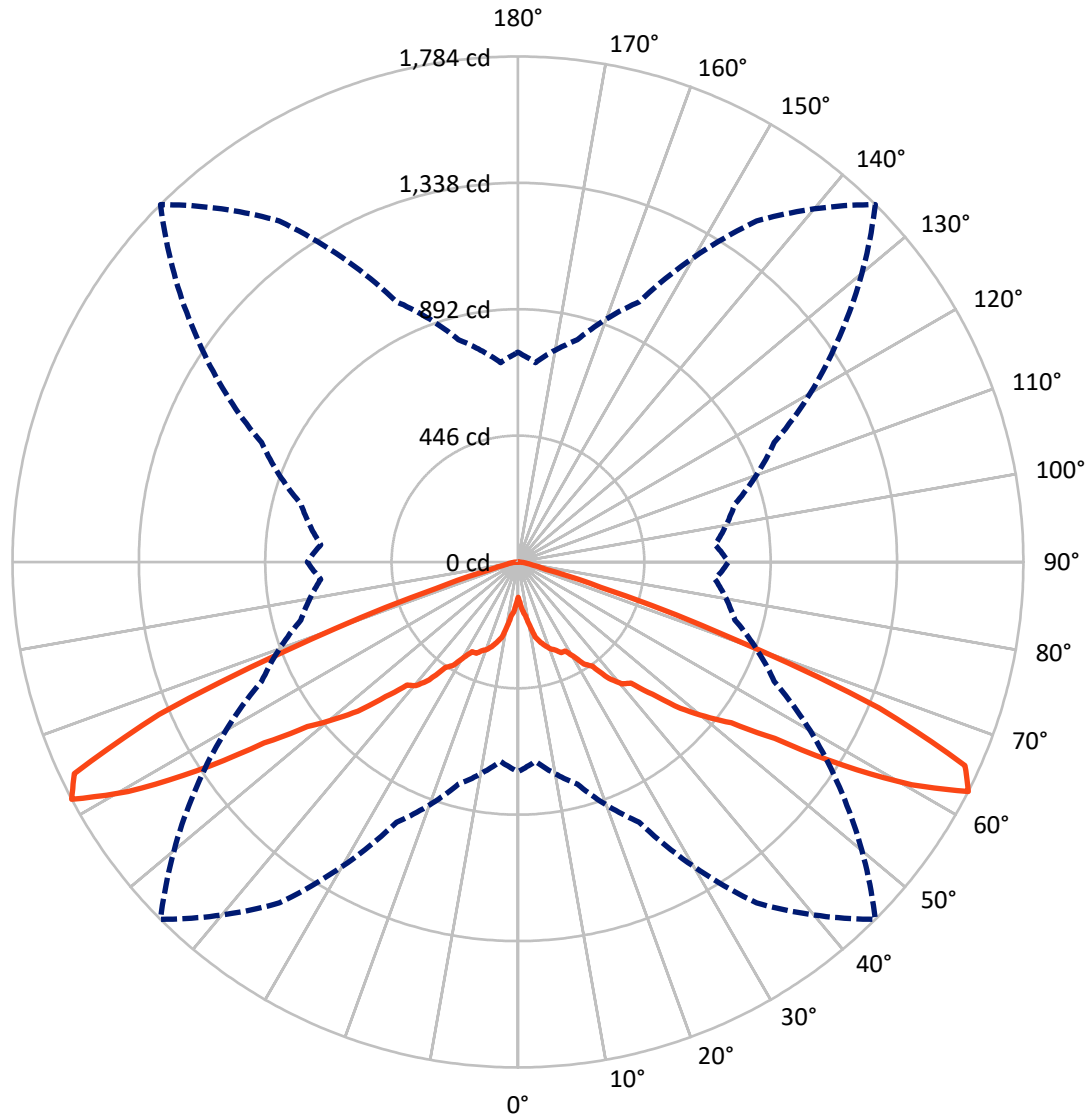
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - N/A

REPORT NUMBER: P596476
CATALOG NUMBER: MSA-SA1A-827-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P596476
 CATALOG NUMBER: MSA-SA1A-827-U-5NQ

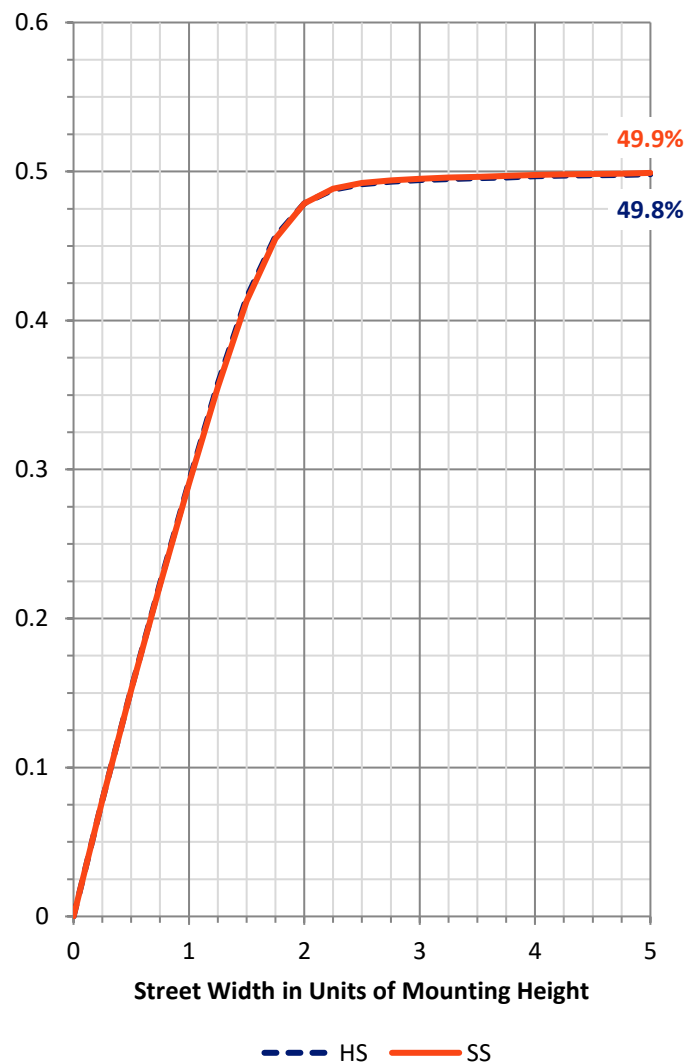
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1520.0	0.0	1520.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1520.0	0.0	1520.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3040.0	0.0	3040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.7	0.6
10°-20°	82.6	2.7
20°-30°	173.1	5.7
30°-40°	326.2	10.7
40°-50°	592.0	19.5
50°-60°	1000.3	32.9
60°-70°	747.8	24.6
70°-80°	83.7	2.8
80°-90°	15.6	0.5
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°	3040.0	100.0
0°-180°	3040.0	100.0

Coefficient of Utilization



REPORT NUMBER: P596476

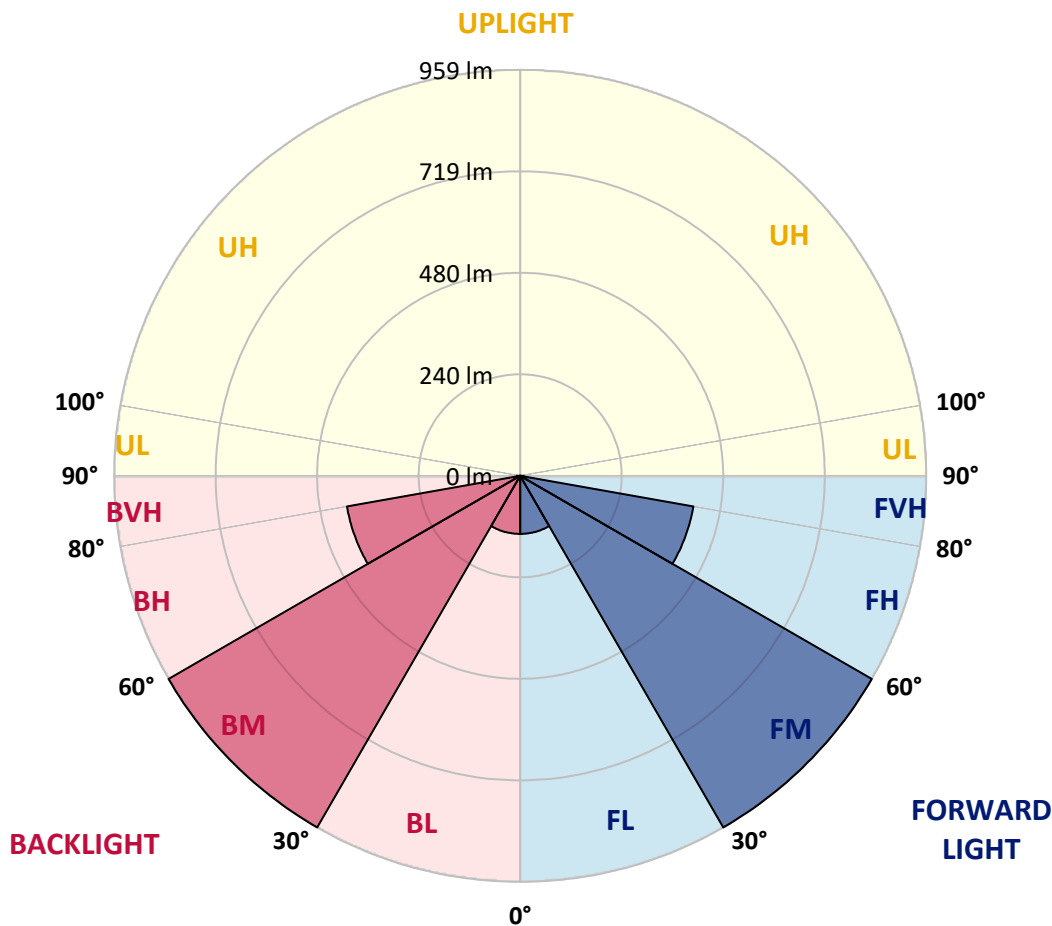
CATALOG NUMBER: MSA-SA1A-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	137.2	4.5			
FM (30°-60°)	959.3	31.6			
FH (60°-80°)	415.7	13.7			G0/660
FVH (80°-90°)	7.8	0.3			G0/10
BL (0°-30°)	137.2	4.5	B1/500		
BM (30°-60°)	959.3	31.6	B1/1000		
BH (60°-80°)	415.7	13.7	B1/500		G0/660
BVH (80°-90°)	7.8	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type V Short





REPORT NUMBER: P596476
 CATALOG NUMBER: MSA-SA1A-827-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3
2.5°	151.1	148.4	138.9	142.2	145.7	145.2	144.3	141.7	139.4	149.2	151.1
5°	192.7	186.5	183.2	180.4	179.8	173.2	182.3	181.3	184.4	189.6	194.7
7.5°	225.8	220.0	211.2	209.4	199.4	191.9	199.9	209.6	212.7	222.3	227.9
10°	238.0	232.9	234.5	226.2	225.7	227.8	226.1	228.3	236.5	235.4	239.6
12.5°	265.2	266.0	260.8	258.7	262.9	272.1	264.3	261.6	259.6	268.0	270.6
15°	290.6	295.7	287.2	285.8	284.1	292.6	284.2	288.3	291.9	293.6	292.6
17.5°	326.8	327.0	317.5	302.3	308.0	310.7	307.0	299.9	316.9	325.4	325.9
20°	350.5	351.4	332.6	308.8	324.9	327.4	325.5	310.8	333.3	347.5	346.9
22.5°	376.1	373.1	347.7	330.3	336.0	337.5	333.6	331.7	347.5	373.4	369.6
25°	393.3	398.7	373.4	362.3	357.4	354.0	359.0	360.0	376.2	399.7	386.7
27.5°	434.4	425.0	385.3	389.5	379.2	355.8	378.1	390.3	386.9	426.9	436.7
30°	470.8	471.1	415.4	423.5	404.4	385.5	409.6	427.3	423.0	474.3	465.0
32.5°	517.5	519.2	467.5	446.0	433.1	429.5	426.6	446.1	473.1	514.6	515.5
35°	567.8	582.7	512.4	489.8	467.9	452.0	469.1	496.2	513.8	580.2	568.4
37.5°	665.9	640.9	583.4	540.8	526.9	520.6	529.6	545.3	583.3	640.5	660.7
40°	723.9	717.0	638.7	603.1	549.1	566.0	561.0	604.0	635.5	720.9	722.8
42.5°	812.6	777.7	707.3	662.1	613.6	584.4	615.3	673.1	711.0	783.3	817.4
45°	882.7	837.9	783.6	749.2	688.0	666.4	677.5	751.5	799.1	848.7	893.6
47.5°	960.2	911.8	857.5	796.4	736.6	771.9	752.2	817.3	863.8	934.9	976.9
50°	1057.7	1004.0	934.5	884.1	844.5	856.8	853.8	900.1	957.5	1022.3	1070.1
52.5°	1165.1	1104.3	1037.3	990.4	973.7	943.1	983.1	1002.2	1044.5	1103.8	1159.9
55°	1240.1	1179.4	1138.8	1153.9	1149.5	1100.2	1135.4	1137.4	1116.9	1138.3	1194.7
57.5°	1228.5	1170.5	1164.9	1221.9	1307.2	1354.8	1300.5	1183.7	1107.3	1097.3	1157.0
60°	1074.2	1024.6	1075.5	1204.1	1452.4	1597.3	1388.3	1148.7	1022.8	970.8	1028.4
62.5°	740.2	706.7	812.3	1013.4	1469.8	1784.4	1385.1	998.2	793.3	698.8	743.6
65°	350.9	338.8	427.9	642.5	1224.3	1734.5	1210.1	675.4	456.6	364.7	374.9
67.5°	132.0	125.9	157.1	283.8	771.1	1375.7	813.4	333.2	176.6	137.3	142.0
70°	74.9	70.6	74.7	103.5	310.4	779.2	350.9	114.3	75.1	68.4	72.8
72.5°	59.0	55.7	56.3	62.6	107.1	305.9	113.5	65.2	54.5	51.8	55.8
75°	48.7	45.8	45.6	49.1	62.5	99.3	64.2	49.8	44.2	42.2	45.4
77.5°	38.7	37.0	37.5	40.2	44.8	55.5	46.5	40.3	36.2	33.9	36.1
80°	28.3	28.1	30.1	32.5	33.4	37.4	34.9	32.5	28.9	25.6	26.5
82.5°	18.6	18.7	22.4	24.4	24.0	23.9	25.0	24.9	21.6	16.9	16.9
85°	10.6	10.9	13.7	15.3	15.1	12.0	15.8	16.0	13.9	10.3	9.9
87.5°	3.5	4.3	5.9	6.3	6.1	3.3	6.1	6.7	6.1	4.3	3.8
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)