

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: P596717

Luminaire Tested: **MSA-SA3D-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596717
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-SA3D-827-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15760 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

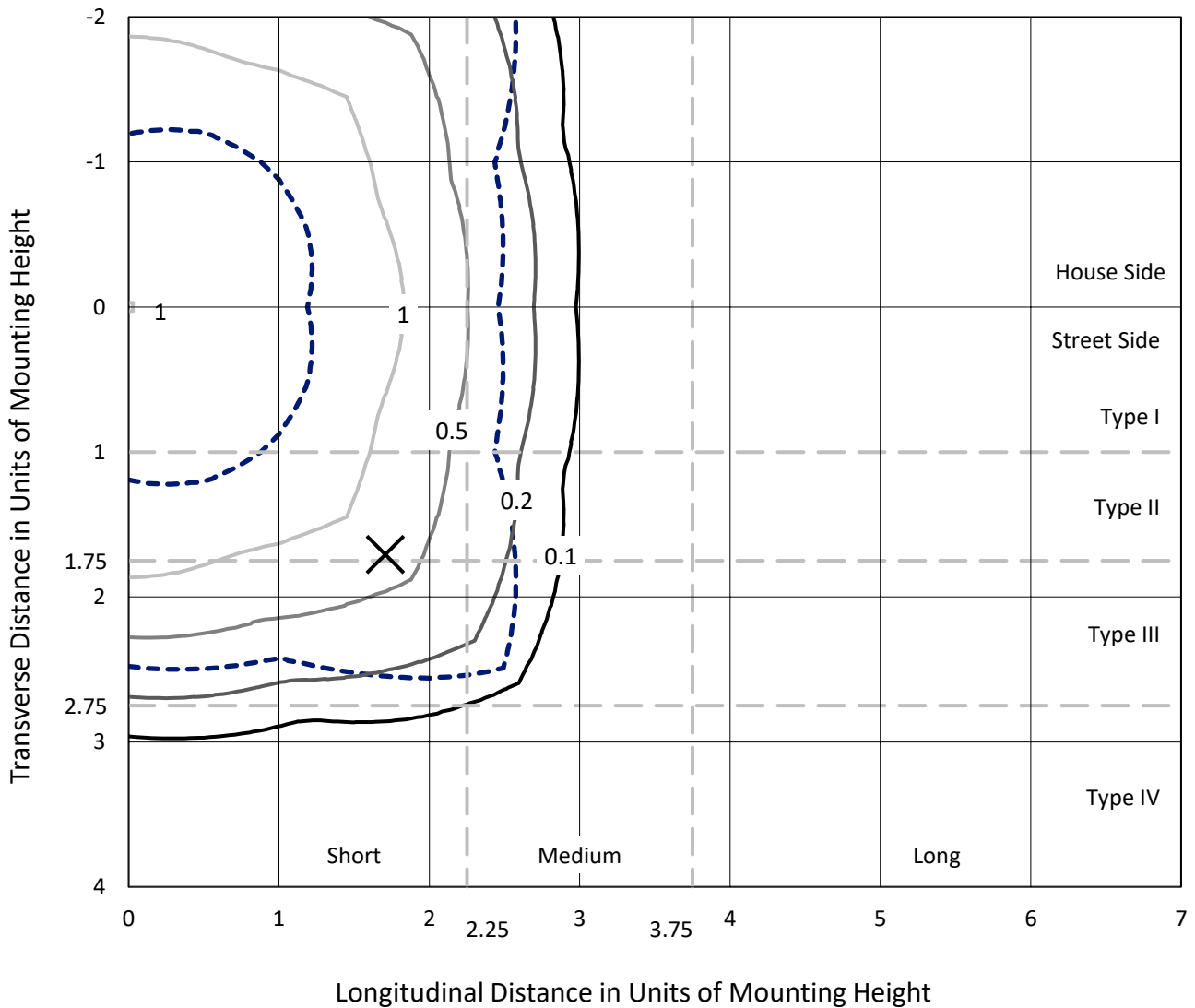
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P596717
 CATALOG NUMBER: MSA-SA3D-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

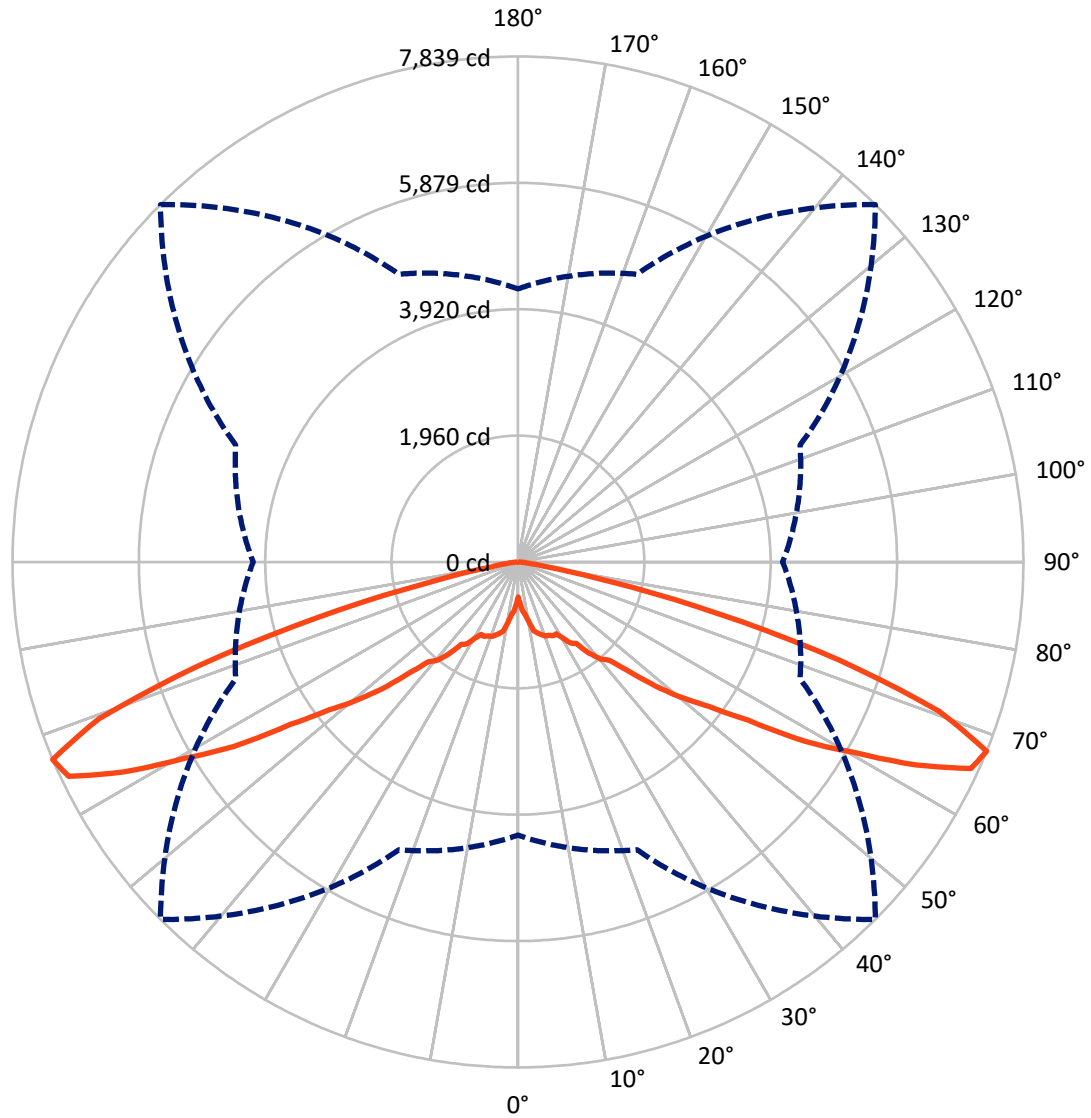
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - N/A

REPORT NUMBER: P596717
CATALOG NUMBER: MSA-SA3D-827-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P596717
 CATALOG NUMBER: MSA-SA3D-827-U-5MQ

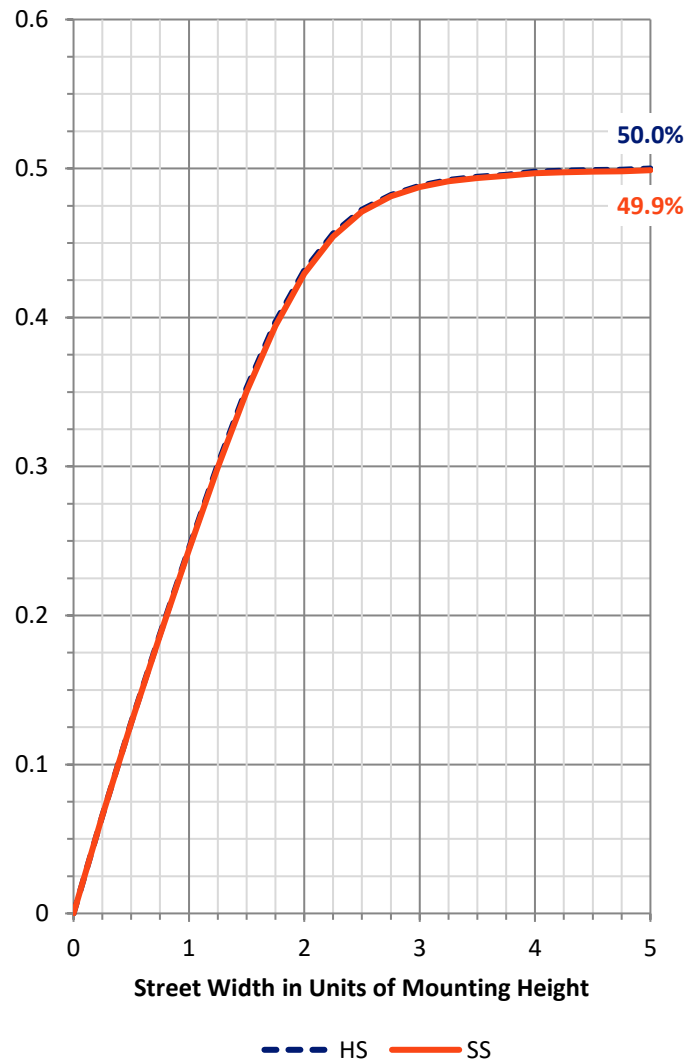
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7880.0	0.0	7880.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7880.0	0.0	7880.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15760.0	0.0	15760.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	0.5
10°-20°	318.4	2.0
20°-30°	607.6	3.9
30°-40°	1110.8	7.0
40°-50°	2153.8	13.7
50°-60°	4113.0	26.1
60°-70°	5557.1	35.3
70°-80°	1725.8	11.0
80°-90°	93.0	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°	15760.0	100.0
0°-180°	15760.0	100.0



REPORT NUMBER: P596717

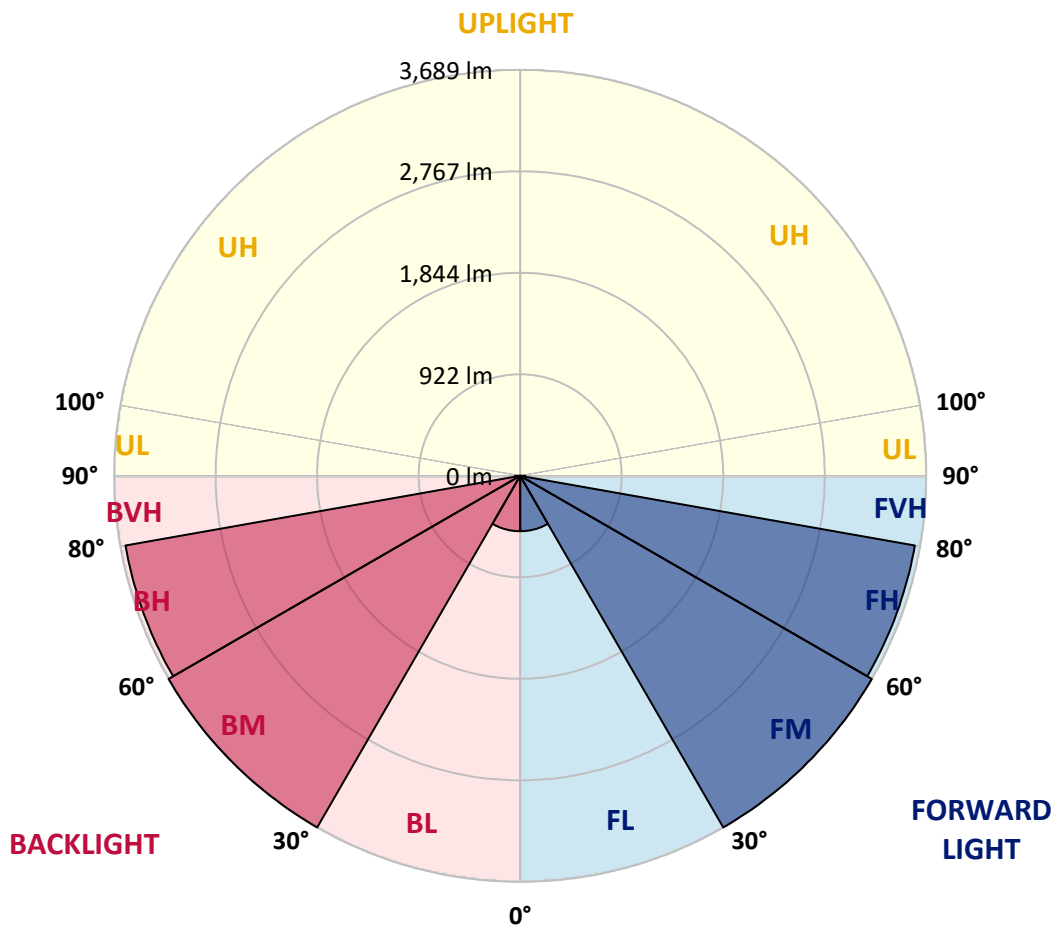
CATALOG NUMBER: MSA-SA3D-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.3	3.2			
FM (30°-60°)	3688.8	23.4			
FH (60°-80°)	3641.5	23.1			G2/5000
FVH (80°-90°)	46.5	0.3			G1/100
BL (0°-30°)	503.3	3.2	B2/1000		
BM (30°-60°)	3688.8	23.4	B3/5000		
BH (60°-80°)	3641.5	23.1	B4/5000		G2/5000
BVH (80°-90°)	46.5	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





REPORT NUMBER: P596717
 CATALOG NUMBER: MSA-SA3D-827-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	540.1	540.1	540.1	540.1	540.1
2.5°	664.9	622.3	641.7	622.3	664.9
5°	845.1	800.6	761.7	789.7	847.5
7.5°	971.1	904.8	822.6	897.5	965.6
10°	992.4	955.3	951.6	951.0	990.0
12.5°	1072.2	1047.2	1097.2	1049.7	1074.6
15°	1134.3	1120.3	1142.8	1138.0	1136.7
17.5°	1230.5	1135.5	1186.7	1130.0	1227.5
20°	1273.1	1138.6	1224.4	1131.9	1272.5
22.5°	1325.5	1210.4	1236.0	1213.5	1320.6
25°	1355.3	1256.7	1265.8	1257.9	1355.9
27.5°	1477.7	1359.0	1261.6	1375.4	1500.2
30°	1570.9	1425.3	1361.4	1427.2	1582.4
32.5°	1705.4	1524.6	1499.6	1548.9	1726.7
35°	1872.2	1691.4	1551.4	1692.0	1907.5
37.5°	2199.2	1843.0	1793.7	1896.6	2223.5
40°	2429.9	2082.3	1977.0	2120.6	2469.5
42.5°	2784.3	2350.8	2083.5	2370.3	2845.2
45°	3114.3	2676.5	2423.3	2699.1	3158.8
47.5°	3463.2	2975.5	2880.5	3003.5	3496.1
50°	3875.4	3380.4	3314.0	3412.0	3889.4
52.5°	4361.9	3922.3	3726.2	3940.5	4366.7
55°	4939.7	4377.1	4333.2	4427.0	4947.0
57.5°	5504.7	4966.4	5247.7	4971.9	5406.7
60°	5907.7	5509.5	5999.7	5369.5	5690.4
62.5°	5933.3	5912.0	6936.1	5674.5	5629.5
65°	5380.5	5749.4	7720.3	5563.7	5110.1
67.5°	4235.2	4830.1	7839.0	4736.3	4105.5
70°	2661.3	3344.5	6930.0	3472.9	2736.8
72.5°	1227.5	1802.2	5218.5	2028.7	1297.5
75°	439.6	689.8	3219.6	741.0	459.7
77.5°	249.6	279.5	1422.9	280.7	258.2
80°	160.7	174.1	411.0	183.9	156.5
82.5°	91.3	121.8	180.2	129.1	84.0
85°	49.3	77.3	79.8	79.2	49.3
87.5°	17.7	30.4	17.7	34.7	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)