

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: P596497

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P596497  
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-SA1B-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: 4010 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

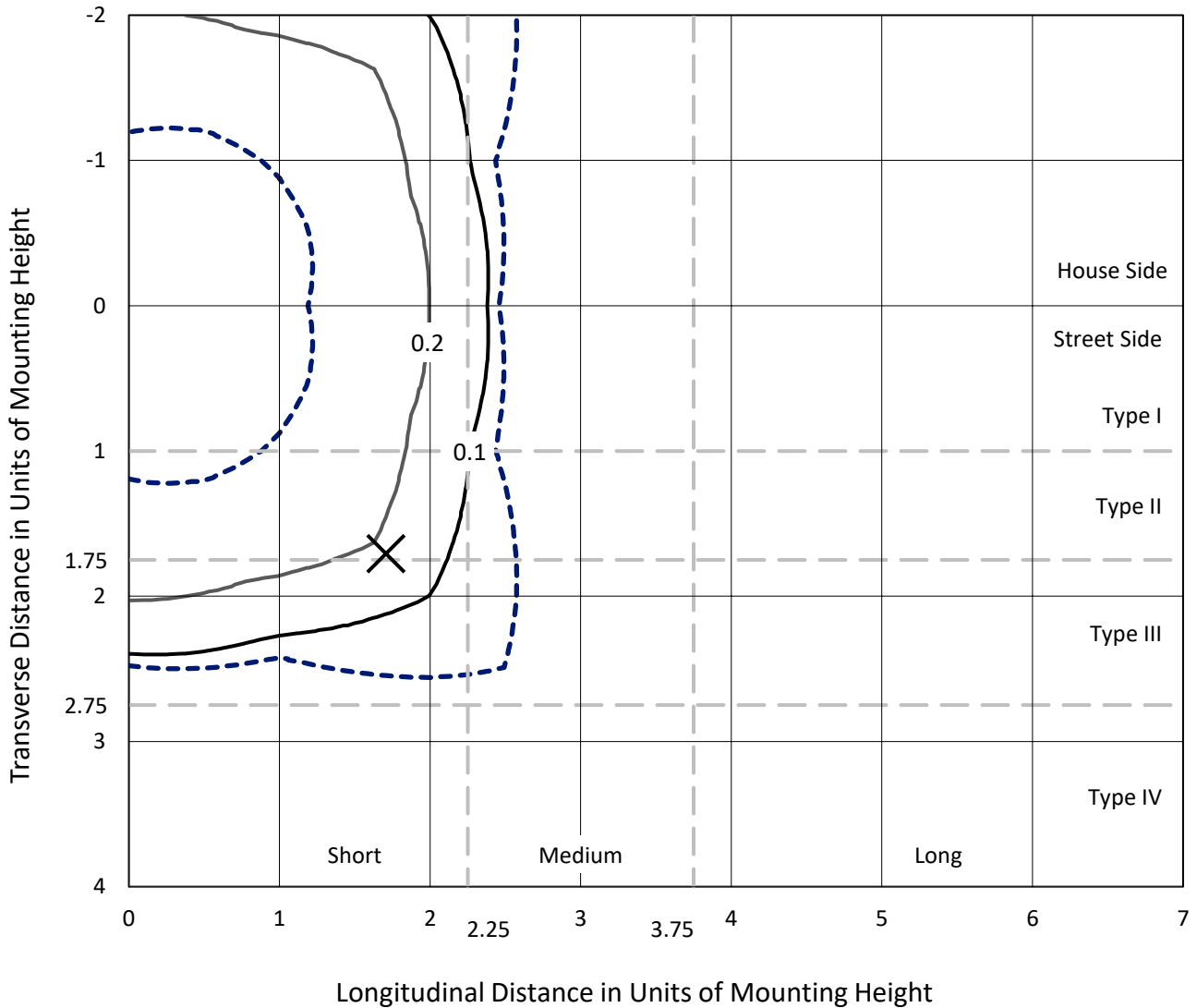
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P596497  
 CATALOG NUMBER: MSA-SA1B-827-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

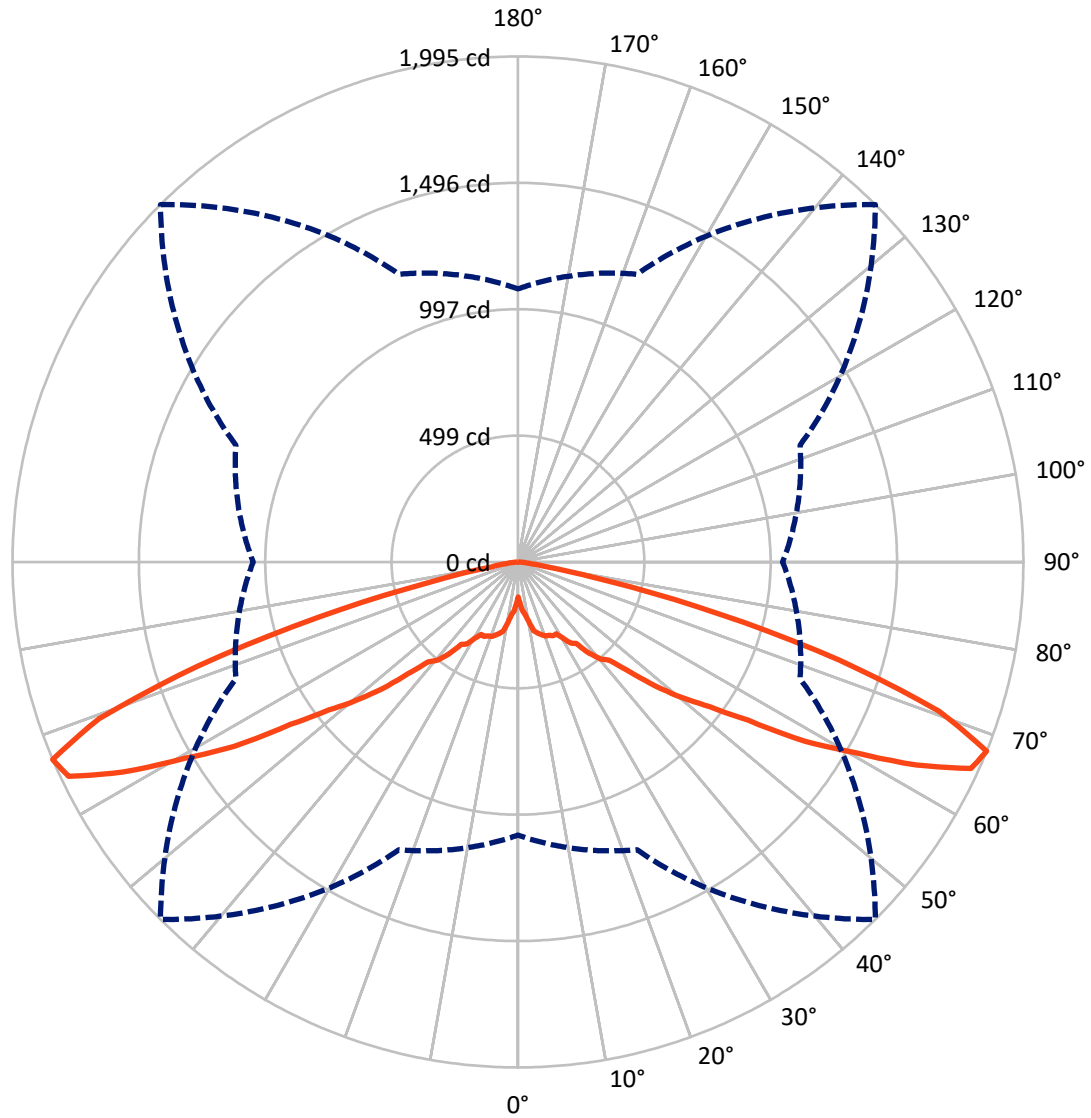
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P596497  
CATALOG NUMBER: MSA-SA1B-827-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P596497  
 CATALOG NUMBER: MSA-SA1B-827-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2005.0	0.0	2005.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2005.0	0.0	2005.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4010.0	0.0	4010.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.5	0.5
10°-20°	81.0	2.0
20°-30°	154.6	3.9
30°-40°	282.6	7.0
40°-50°	548.0	13.7
50°-60°	1046.5	26.1
60°-70°	1414.0	35.3
70°-80°	439.1	11.0
80°-90°	23.7	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°	4010.0	100.0
0°-180°	4010.0	100.0

**Coefficient of Utilization**



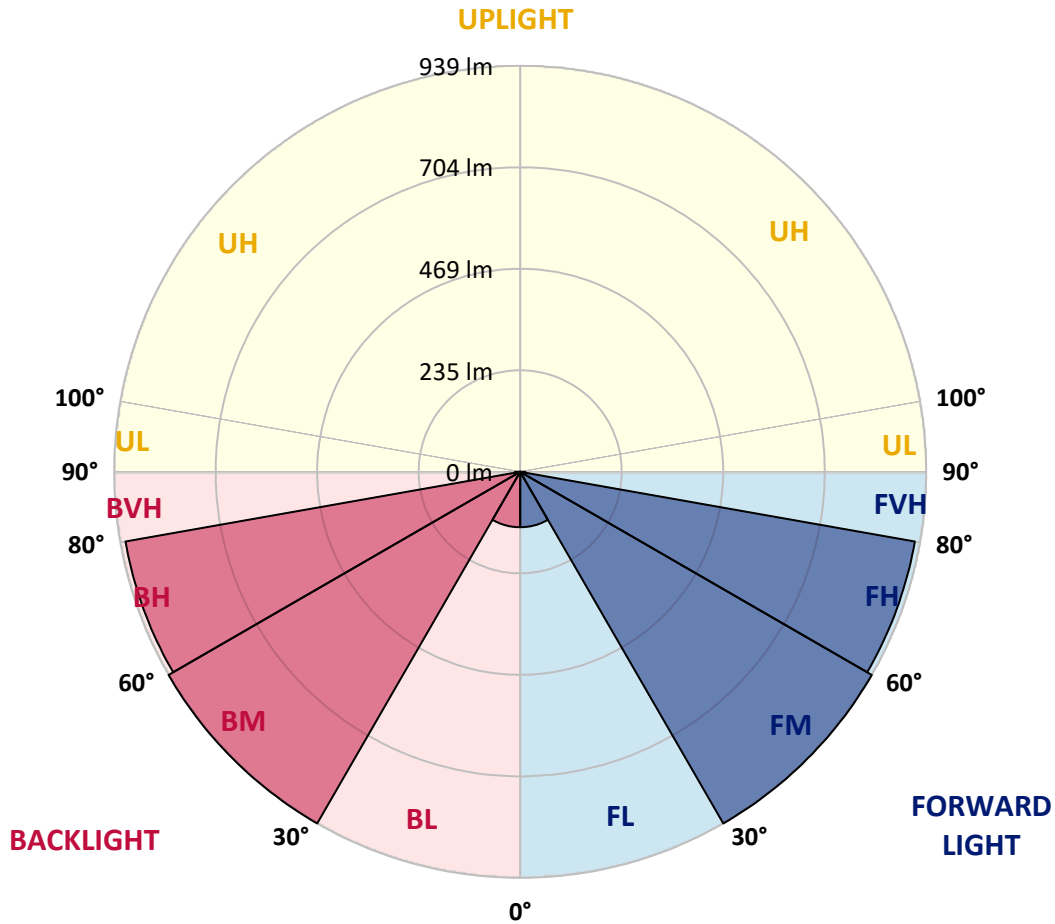
REPORT NUMBER: P596497  
 CATALOG NUMBER: MSA-SA1B-827-U-5MQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	128.1	3.2			
FM (30°-60°)	938.6	23.4			
FH (60°-80°)	926.5	23.1			G1/1800
FVH (80°-90°)	11.8	0.3			G1/100
BL (0°-30°)	128.1	3.2	B1/500		
BM (30°-60°)	938.6	23.4	B1/1000		
BH (60°-80°)	926.5	23.1	B2/1000		G1/1800
BVH (80°-90°)	11.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





REPORT NUMBER: P596497  
 CATALOG NUMBER: MSA-SA1B-827-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	137.4	137.4	137.4	137.4	137.4
2.5°	169.2	158.3	163.3	158.3	169.2
5°	215.0	203.7	193.8	200.9	215.6
7.5°	247.1	230.2	209.3	228.4	245.7
10°	252.5	243.1	242.1	242.0	251.9
12.5°	272.8	266.5	279.2	267.1	273.4
15°	288.6	285.1	290.8	289.5	289.2
17.5°	313.1	288.9	301.9	287.5	312.3
20°	323.9	289.7	311.5	288.0	323.8
22.5°	337.3	308.0	314.5	308.8	336.0
25°	344.8	319.8	322.1	320.1	345.0
27.5°	376.0	345.8	321.0	350.0	381.7
30°	399.7	362.7	346.4	363.1	402.6
32.5°	433.9	387.9	381.6	394.1	439.3
35°	476.4	430.4	394.7	430.5	485.4
37.5°	559.6	468.9	456.4	482.6	565.8
40°	618.3	529.8	503.0	539.6	628.3
42.5°	708.4	598.1	530.1	603.1	723.9
45°	792.4	681.0	616.6	686.8	803.7
47.5°	881.2	757.1	732.9	764.2	889.5
50°	986.1	860.1	843.2	868.2	989.6
52.5°	1109.8	998.0	948.1	1002.6	1111.1
55°	1256.9	1113.7	1102.6	1126.4	1258.7
57.5°	1400.6	1263.7	1335.2	1265.1	1375.7
60°	1503.2	1401.9	1526.6	1366.2	1447.9
62.5°	1509.7	1504.3	1764.8	1443.8	1432.4
65°	1369.0	1462.9	1964.4	1415.6	1300.2
67.5°	1077.6	1229.0	1994.6	1205.1	1044.6
70°	677.1	851.0	1763.3	883.7	696.4
72.5°	312.3	458.6	1327.8	516.2	330.1
75°	111.9	175.5	819.2	188.5	117.0
77.5°	63.5	71.1	362.0	71.4	65.7
80°	40.9	44.3	104.6	46.8	39.8
82.5°	23.2	31.0	45.9	32.8	21.4
85°	12.5	19.7	20.3	20.1	12.5
87.5°	4.5	7.7	4.5	8.8	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)