

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: P596585

Luminaire Tested: **MSA-SA2B-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596585
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-SA2B-827-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7887 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

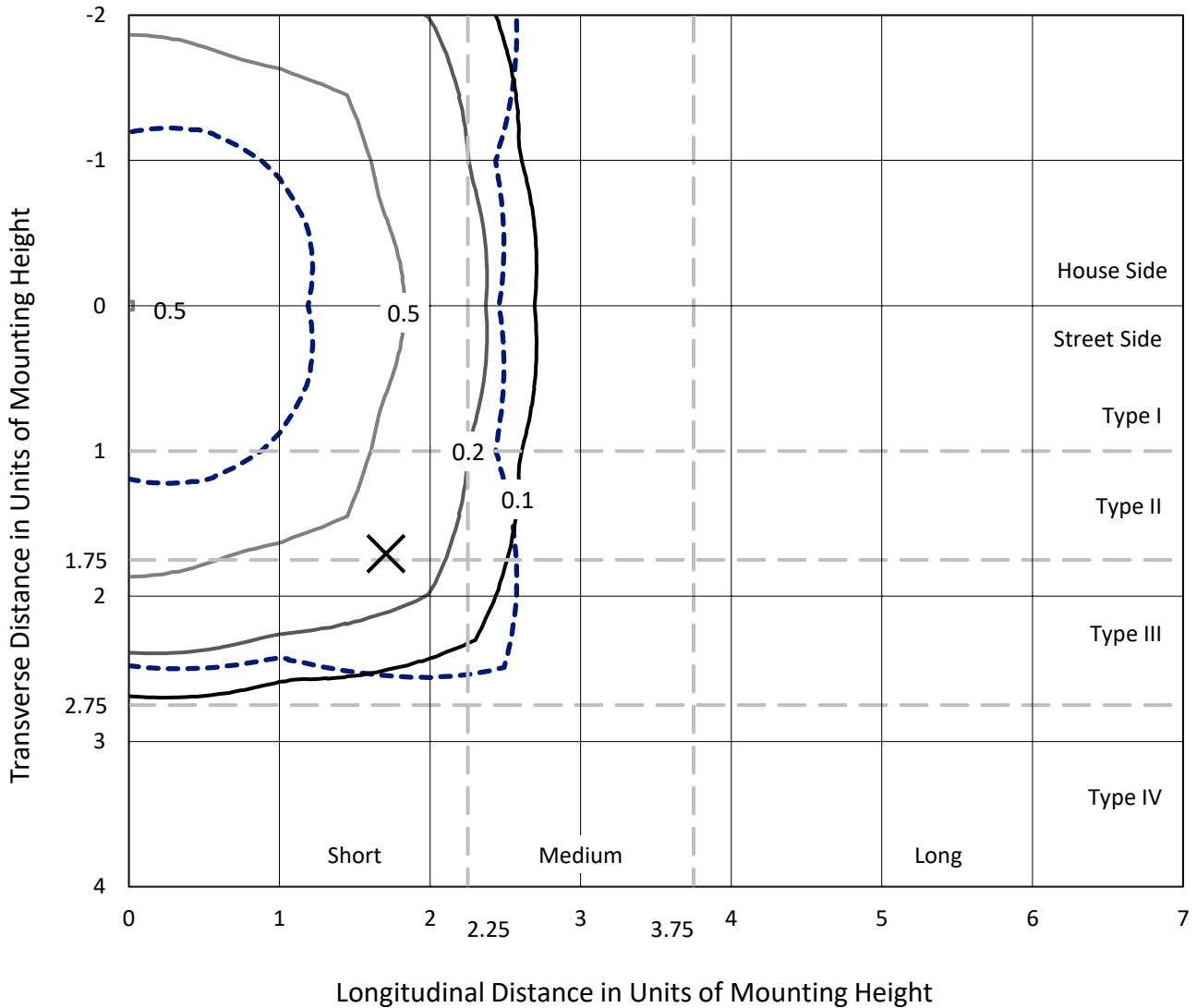
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

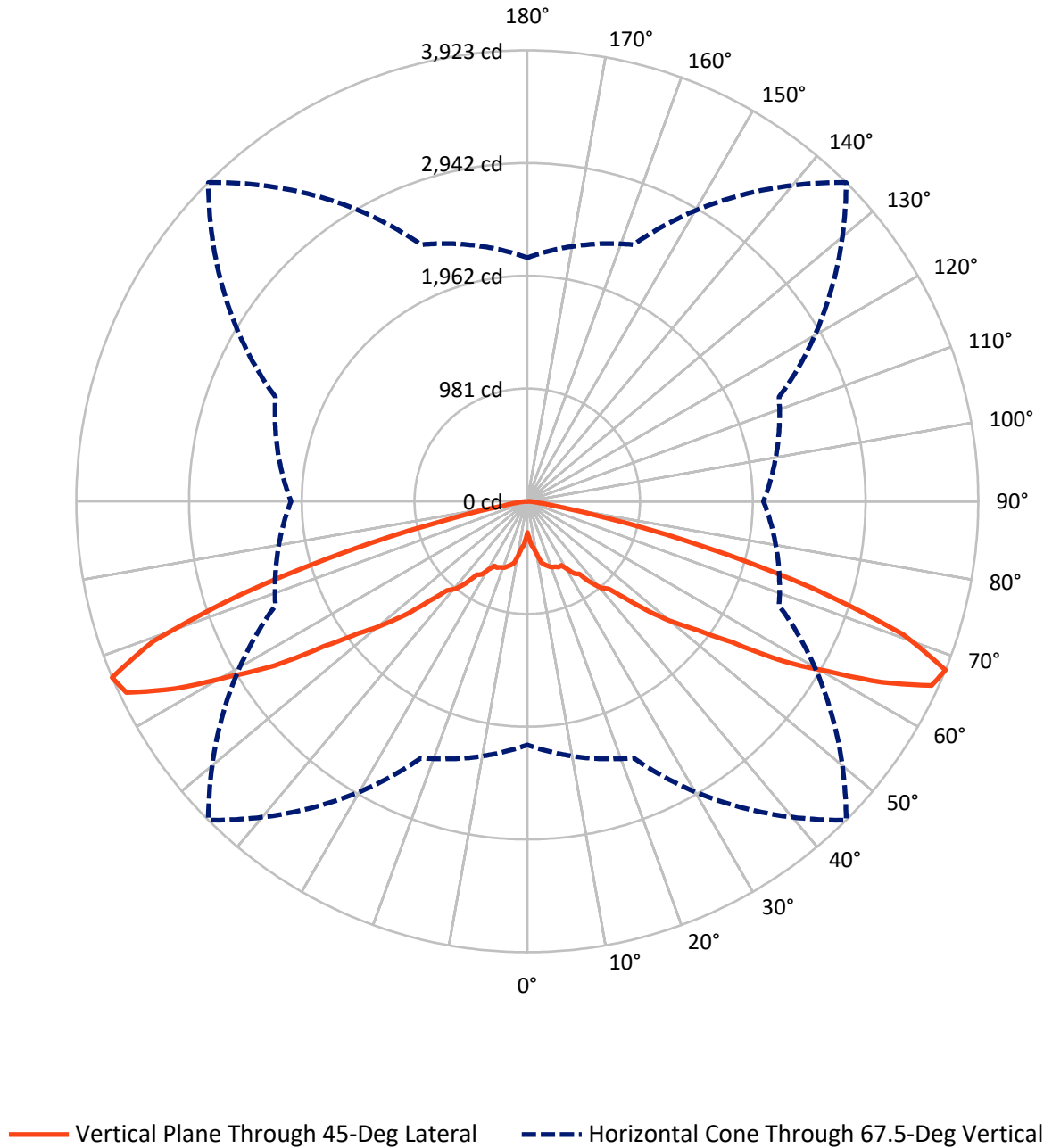
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3943.5	0.0	3943.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3943.5	0.0	3943.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7887.0	0.0	7887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	0.5
10°-20°	159.4	2.0
20°-30°	304.0	3.9
30°-40°	555.9	7.0
40°-50°	1077.8	13.7
50°-60°	2058.3	26.1
60°-70°	2781.0	35.3
70°-80°	863.7	11.0
80°-90°	46.5	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°	7887.0	100.0
0°-180°	7887.0	100.0

Coefficient of Utilization



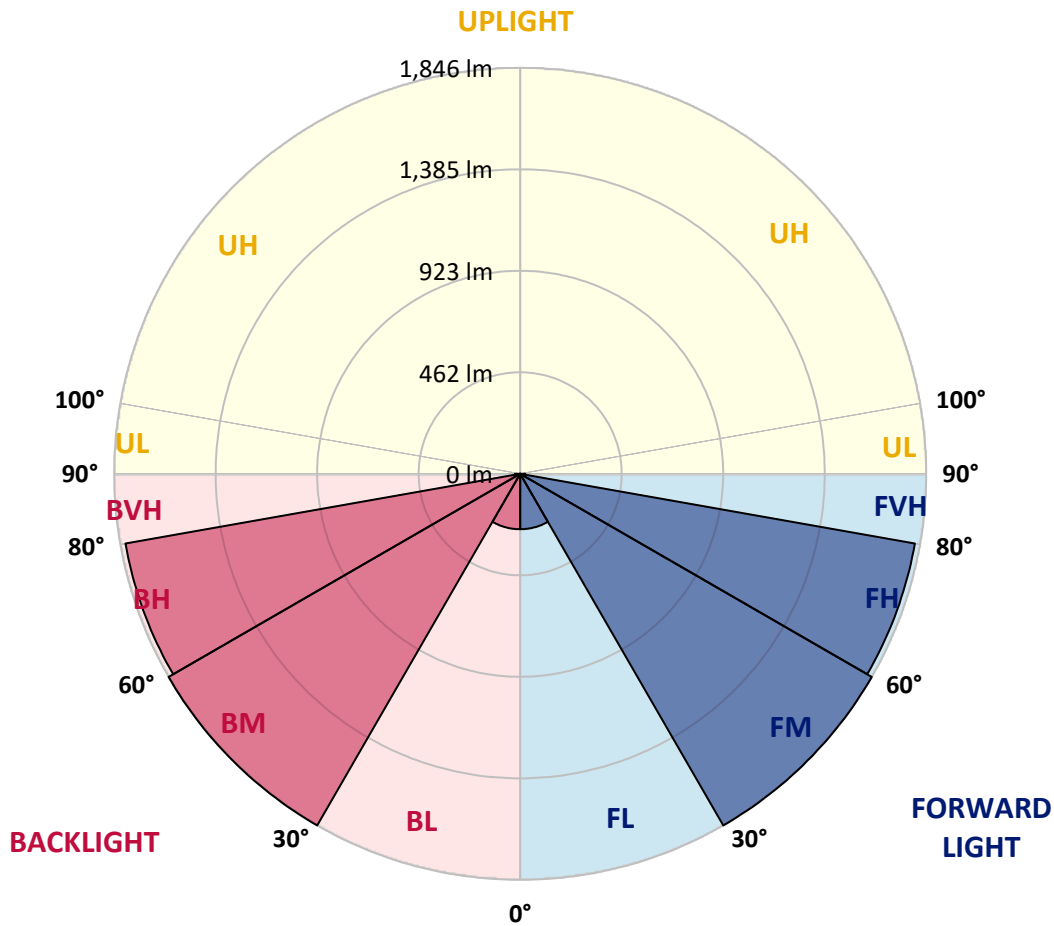
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.9	3.2			
FM (30°-60°)	1846.0	23.4			
FH (60°-80°)	1822.3	23.1			G2/5000
FVH (80°-90°)	23.3	0.3			G1/100
BL (0°-30°)	251.9	3.2	B1/500		
BM (30°-60°)	1846.0	23.4	B2/2500		
BH (60°-80°)	1822.3	23.1	B3/2500		G2/5000
BVH (80°-90°)	23.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	270.3	270.3	270.3	270.3	270.3
2.5°	332.7	311.4	321.2	311.4	332.7
5°	422.9	400.7	381.2	395.2	424.1
7.5°	486.0	452.8	411.6	449.1	483.3
10°	496.7	478.1	476.2	475.9	495.4
12.5°	536.6	524.1	549.1	525.3	537.8
15°	567.7	560.6	571.9	569.5	568.9
17.5°	615.8	568.3	593.9	565.5	614.3
20°	637.1	569.8	612.7	566.4	636.8
22.5°	663.3	605.7	618.5	607.3	660.9
25°	678.3	628.9	633.5	629.5	678.6
27.5°	739.5	680.1	631.3	688.3	750.8
30°	786.1	713.3	681.3	714.2	791.9
32.5°	853.5	763.0	750.5	775.2	864.1
35°	936.9	846.5	776.4	846.8	954.6
37.5°	1100.6	922.3	897.6	949.1	1112.8
40°	1216.1	1042.1	989.4	1061.3	1235.9
42.5°	1393.4	1176.4	1042.7	1186.2	1423.9
45°	1558.5	1339.5	1212.7	1350.7	1580.8
47.5°	1733.1	1489.1	1441.5	1503.1	1749.6
50°	1939.4	1691.7	1658.5	1707.5	1946.4
52.5°	2182.9	1962.9	1864.8	1972.0	2185.3
55°	2472.0	2190.5	2168.5	2215.5	2475.7
57.5°	2754.8	2485.4	2626.2	2488.2	2705.7
60°	2956.5	2757.2	3002.5	2687.1	2847.7
62.5°	2969.3	2958.6	3471.1	2839.8	2817.2
65°	2692.6	2877.3	3863.6	2784.3	2557.3
67.5°	2119.5	2417.2	3923.0	2370.3	2054.6
70°	1331.8	1673.7	3468.1	1738.0	1369.6
72.5°	614.3	901.9	2611.6	1015.3	649.3
75°	220.0	345.2	1611.2	370.8	230.0
77.5°	124.9	139.9	712.1	140.5	129.2
80°	80.4	87.1	205.7	92.0	78.3
82.5°	45.7	60.9	90.2	64.6	42.0
85°	24.7	38.7	39.9	39.6	24.7
87.5°	8.8	15.2	8.8	17.4	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)