

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: P596937

Luminaire Tested: **MSA-SA2B-835-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596937
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-835-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: 8845 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

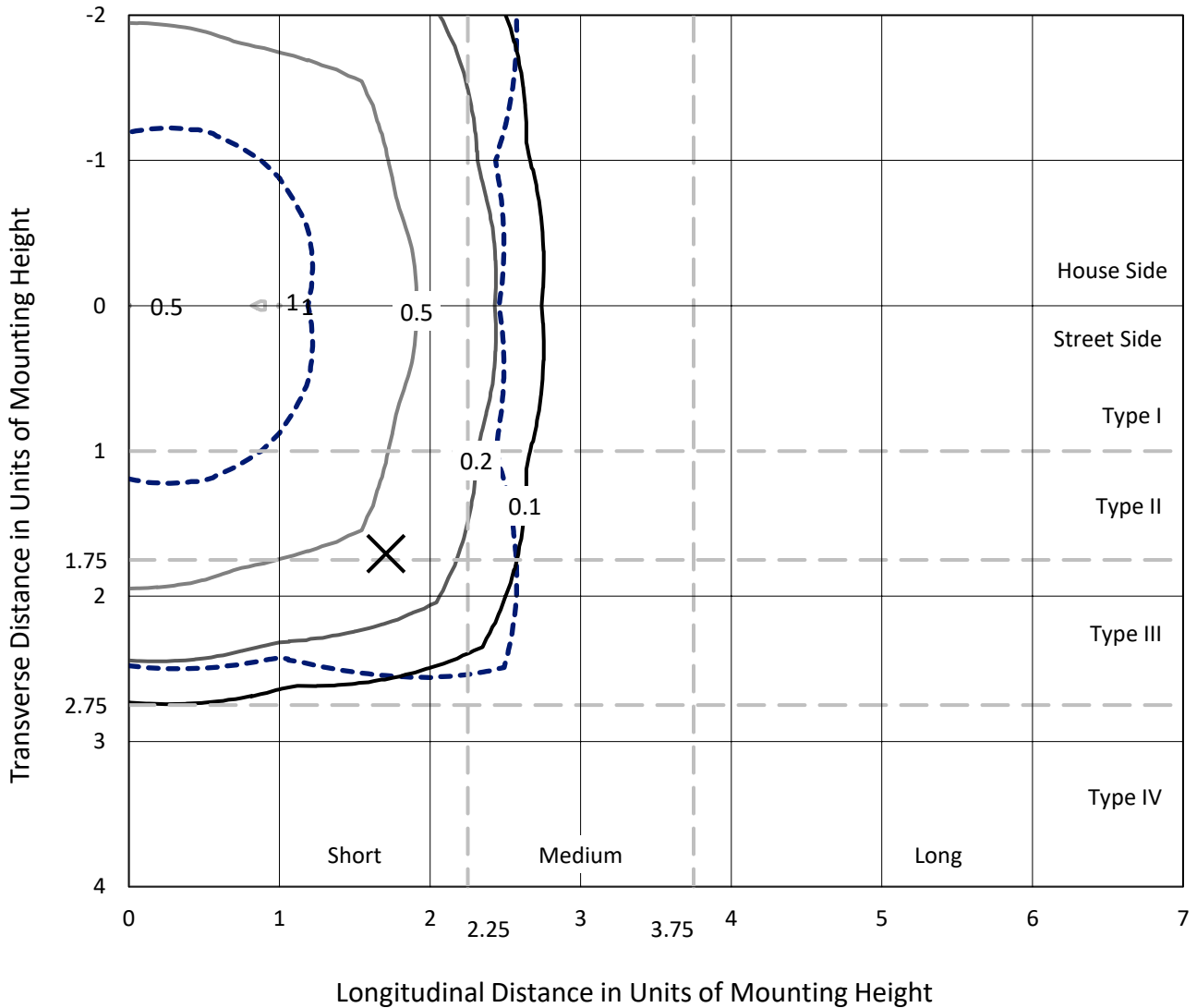
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

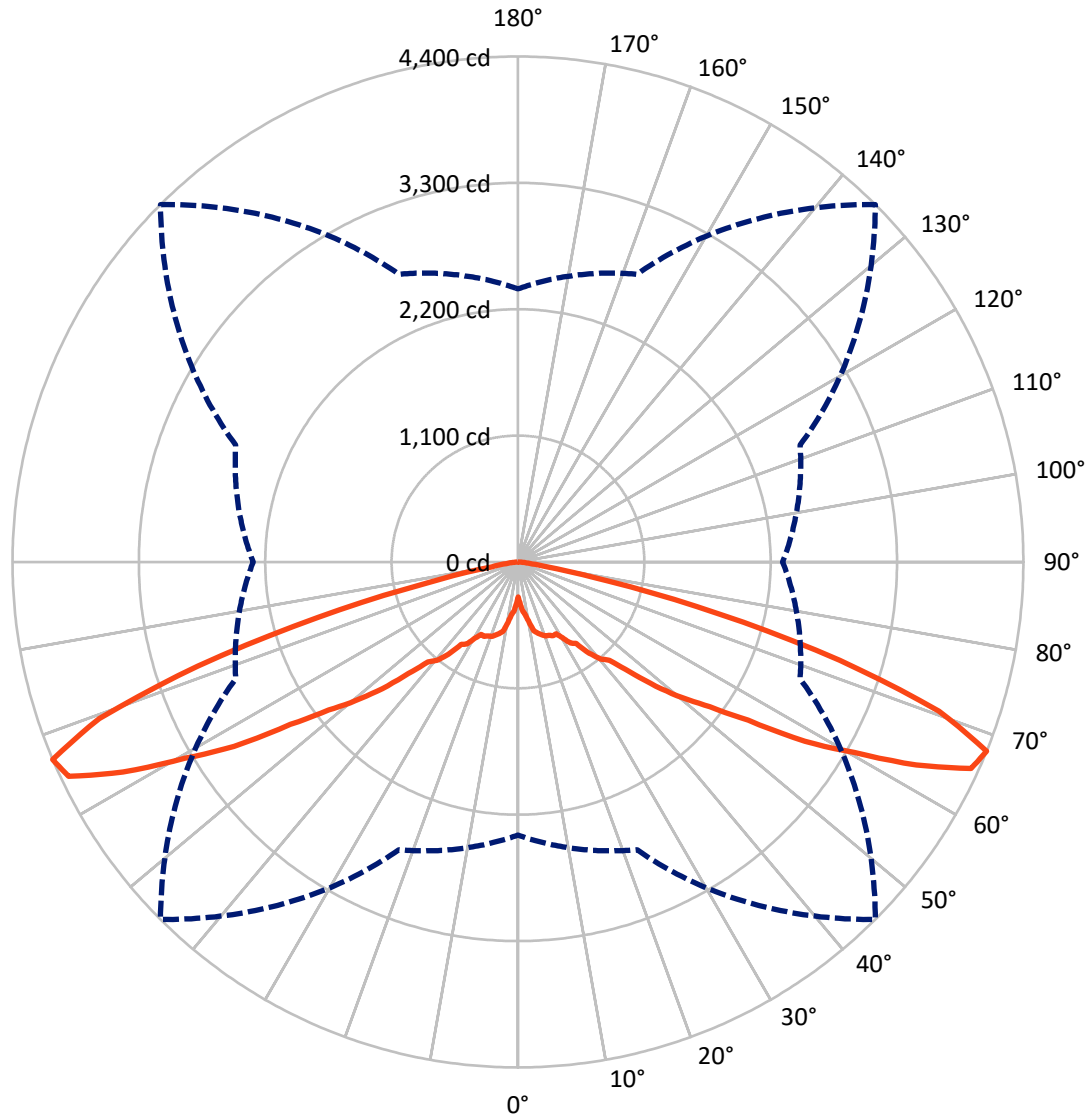
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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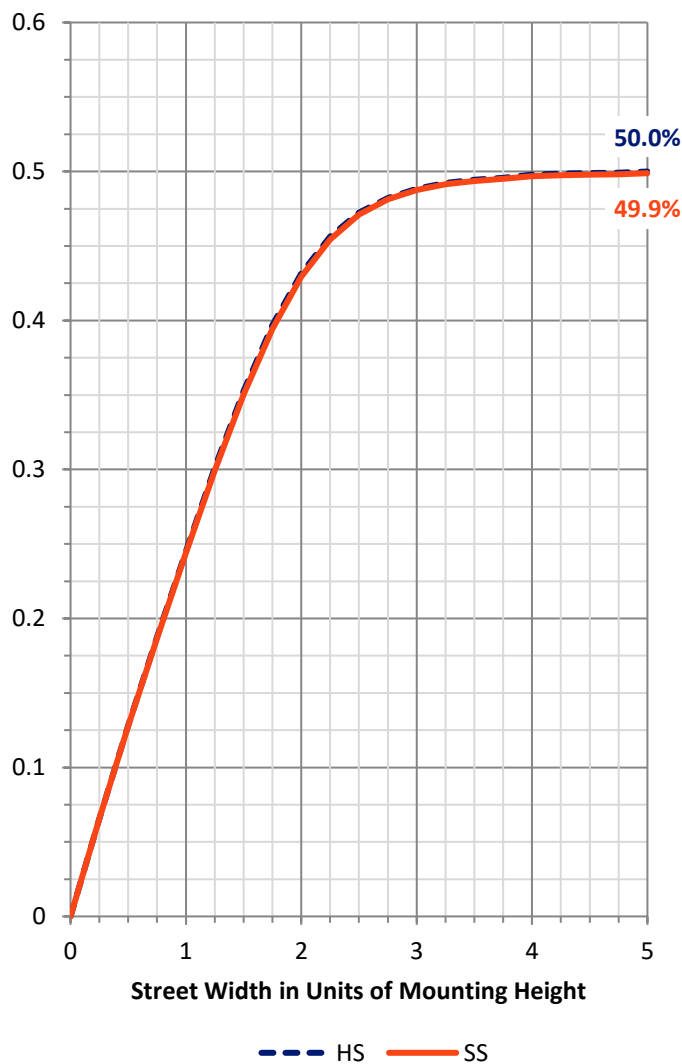
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4422.5	0.0	4422.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4422.5	0.0	4422.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8845.0	0.0	8845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	0.5
10°-20°	178.7	2.0
20°-30°	341.0	3.9
30°-40°	623.4	7.0
40°-50°	1208.8	13.7
50°-60°	2308.3	26.1
60°-70°	3118.8	35.3
70°-80°	968.6	11.0
80°-90°	52.2	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°	8845.0	100.0
0°-180°	8845.0	100.0

Coefficient of Utilization



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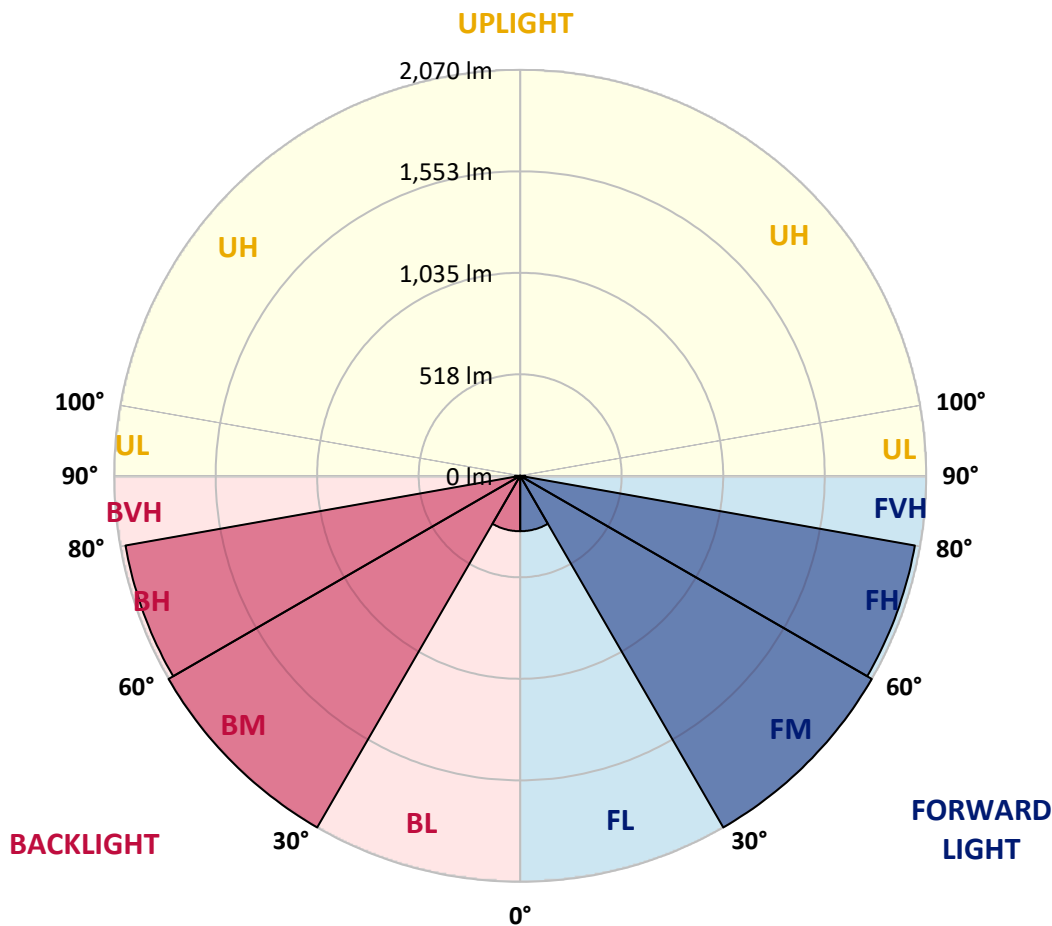
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.4	3.2			
FM (30°-60°)	2070.3	23.4			
FH (60°-80°)	2043.7	23.1			G2/5000
FVH (80°-90°)	26.1	0.3			G1/100
BL (0°-30°)	282.4	3.2	B1/500		
BM (30°-60°)	2070.3	23.4	B2/2500		
BH (60°-80°)	2043.7	23.1	B3/2500		G2/5000
BVH (80°-90°)	26.1	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°	303.1	303.1	303.1	303.1	303.1
2.5°	373.1	349.2	360.2	349.2	373.1
5°	474.3	449.3	427.5	443.2	475.7
7.5°	545.0	507.8	461.6	503.7	542.0
10°	557.0	536.1	534.1	533.8	555.6
12.5°	601.8	587.7	615.8	589.1	603.1
15°	636.6	628.7	641.4	638.7	638.0
17.5°	690.6	637.3	666.0	634.2	688.9
20°	714.5	639.0	687.2	635.2	714.2
22.5°	743.9	679.3	693.7	681.0	741.2
25°	760.6	705.3	710.4	706.0	761.0
27.5°	829.3	762.7	708.0	771.9	842.0
30°	881.6	799.9	764.1	801.0	888.1
32.5°	957.1	855.6	841.6	869.3	969.1
35°	1050.8	949.3	870.7	949.6	1070.6
37.5°	1234.3	1034.4	1006.7	1064.4	1247.9
40°	1363.8	1168.6	1109.5	1190.2	1386.0
42.5°	1562.6	1319.3	1169.3	1330.3	1596.8
45°	1747.8	1502.2	1360.0	1514.8	1772.8
47.5°	1943.6	1669.9	1616.6	1685.7	1962.1
50°	2175.0	1897.2	1859.9	1914.9	2182.8
52.5°	2448.0	2201.3	2091.3	2211.5	2450.7
55°	2772.3	2456.5	2431.9	2484.6	2776.4
57.5°	3089.4	2787.3	2945.2	2790.4	3034.4
60°	3315.6	3092.1	3367.2	3013.5	3193.6
62.5°	3330.0	3318.0	3892.8	3184.7	3159.4
65°	3019.7	3226.8	4332.9	3122.5	2868.0
67.5°	2376.9	2710.8	4399.5	2658.2	2304.1
70°	1493.6	1877.0	3889.3	1949.1	1536.0
72.5°	688.9	1011.5	2928.8	1138.6	728.2
75°	246.7	387.2	1807.0	415.9	258.0
77.5°	140.1	156.8	798.6	157.5	144.9
80°	90.2	97.7	230.7	103.2	87.8
82.5°	51.3	68.3	101.1	72.4	47.2
85°	27.7	43.4	44.8	44.4	27.7
87.5°	9.9	17.1	9.9	19.5	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)