

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: P367281

Luminaire Tested: **MSA-SA2B-730-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2B-730-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: 9771 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

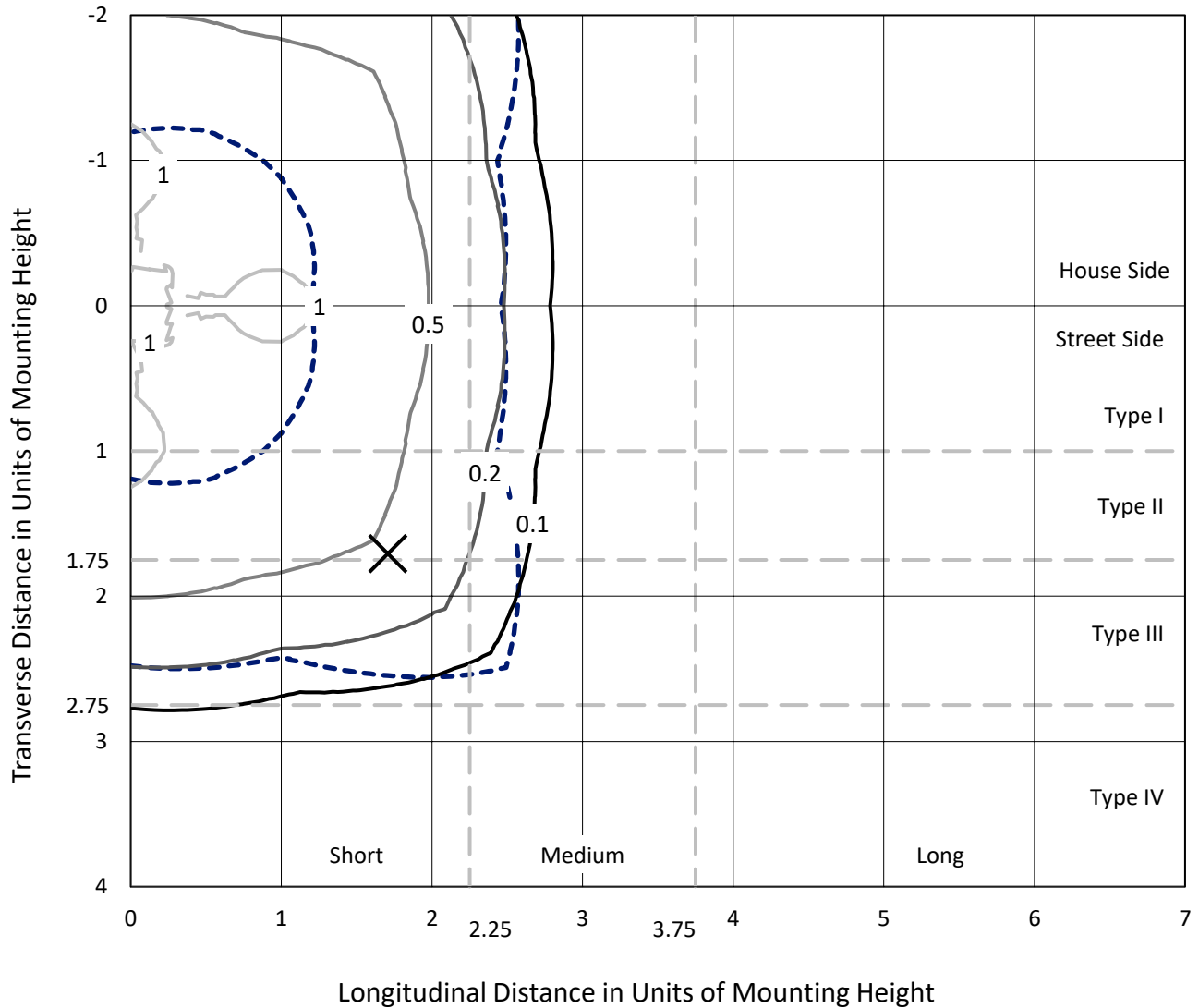
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

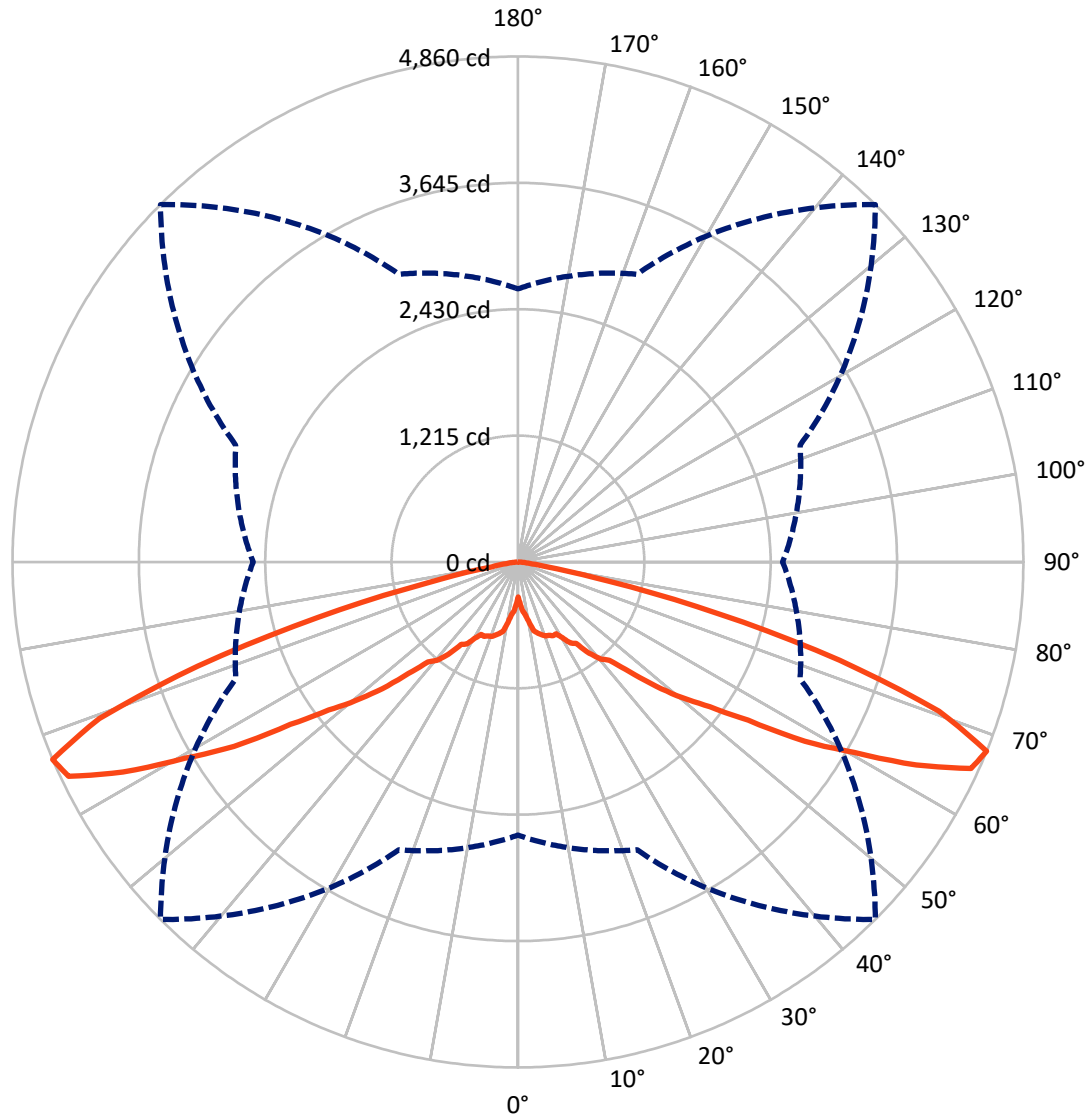
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	4885.5	0.0	4885.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4885.5	0.0	4885.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9771.0	0.0	9771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	0.5
10°-20°	197.4	2.0
20°-30°	376.7	3.9
30°-40°	688.7	7.0
40°-50°	1335.3	13.7
50°-60°	2550.0	26.1
60°-70°	3445.3	35.3
70°-80°	1070.0	11.0
80°-90°	57.6	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°	9771.0	100.0
0°-180°	9771.0	100.0

Coefficient of Utilization

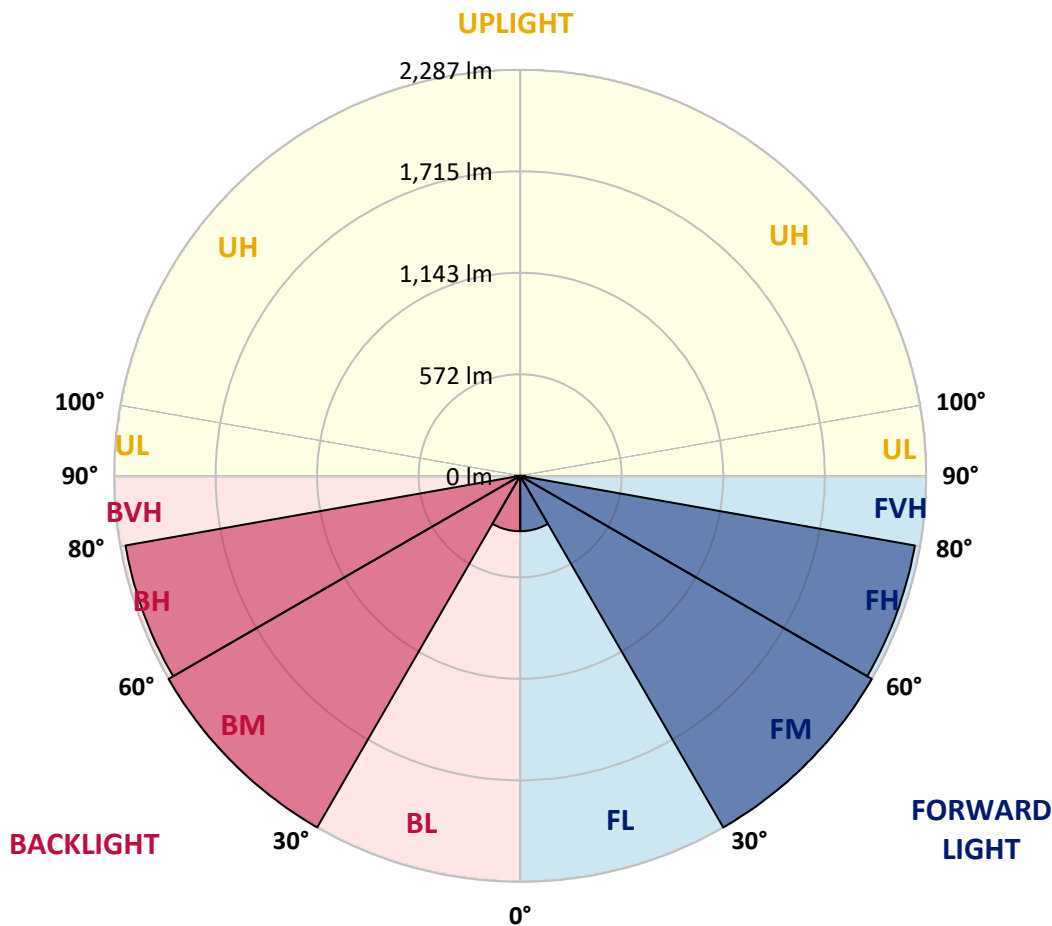


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.0	3.2			
FM (30°-60°)	2287.0	23.4			
FH (60°-80°)	2257.7	23.1			G2/5000
FVH (80°-90°)	28.8	0.3			G1/100
BL (0°-30°)	312.0	3.2	B1/500		
BM (30°-60°)	2287.0	23.4	B2/2500		
BH (60°-80°)	2257.7	23.1	B3/2500		G2/5000
BVH (80°-90°)	28.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	334.8	334.8	334.8	334.8	334.8
2.5°	412.2	385.8	397.9	385.8	412.2
5°	523.9	496.4	472.2	489.6	525.5
7.5°	602.1	560.9	510.0	556.4	598.7
10°	615.3	592.3	590.0	589.6	613.8
12.5°	664.7	649.3	680.2	650.8	666.3
15°	703.3	694.6	708.5	705.5	704.8
17.5°	762.9	704.0	735.7	700.6	761.0
20°	789.3	705.9	759.1	701.7	788.9
22.5°	821.8	750.4	766.3	752.3	818.8
25°	840.3	779.1	784.8	779.9	840.7
27.5°	916.2	842.5	782.1	852.7	930.1
30°	973.9	883.7	844.1	884.8	981.1
32.5°	1057.3	945.2	929.7	960.3	1070.5
35°	1160.8	1048.6	961.8	1049.0	1182.7
37.5°	1363.5	1142.6	1112.1	1175.9	1378.6
40°	1506.5	1291.0	1225.7	1314.8	1531.1
42.5°	1726.2	1457.5	1291.7	1469.5	1764.0
45°	1930.8	1659.4	1502.4	1673.4	1958.4
47.5°	2147.1	1844.8	1785.9	1862.1	2167.5
50°	2402.7	2095.8	2054.6	2115.4	2411.4
52.5°	2704.3	2431.8	2310.2	2443.1	2707.3
55°	3062.5	2713.7	2686.6	2744.7	3067.1
57.5°	3412.8	3079.1	3253.5	3082.5	3352.1
60°	3662.7	3415.9	3719.7	3329.0	3528.0
62.5°	3678.6	3665.4	4300.3	3518.1	3490.2
65°	3335.8	3564.6	4786.5	3449.4	3168.2
67.5°	2625.8	2994.6	4860.1	2936.4	2545.4
70°	1650.0	2073.5	4296.5	2153.2	1696.8
72.5°	761.0	1117.4	3235.4	1257.8	804.4
75°	272.5	427.7	1996.1	459.4	285.0
77.5°	154.8	173.3	882.2	174.0	160.1
80°	99.7	108.0	254.8	114.0	97.0
82.5°	56.6	75.5	111.7	80.0	52.1
85°	30.6	47.9	49.5	49.1	30.6
87.5°	10.9	18.9	10.9	21.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)