

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: P596827

Luminaire Tested: **MSA-SA1A-835-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596827
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-SA1A-835-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: 3588 lumens
Efficiency: N/A
Efficacy: 105.5 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

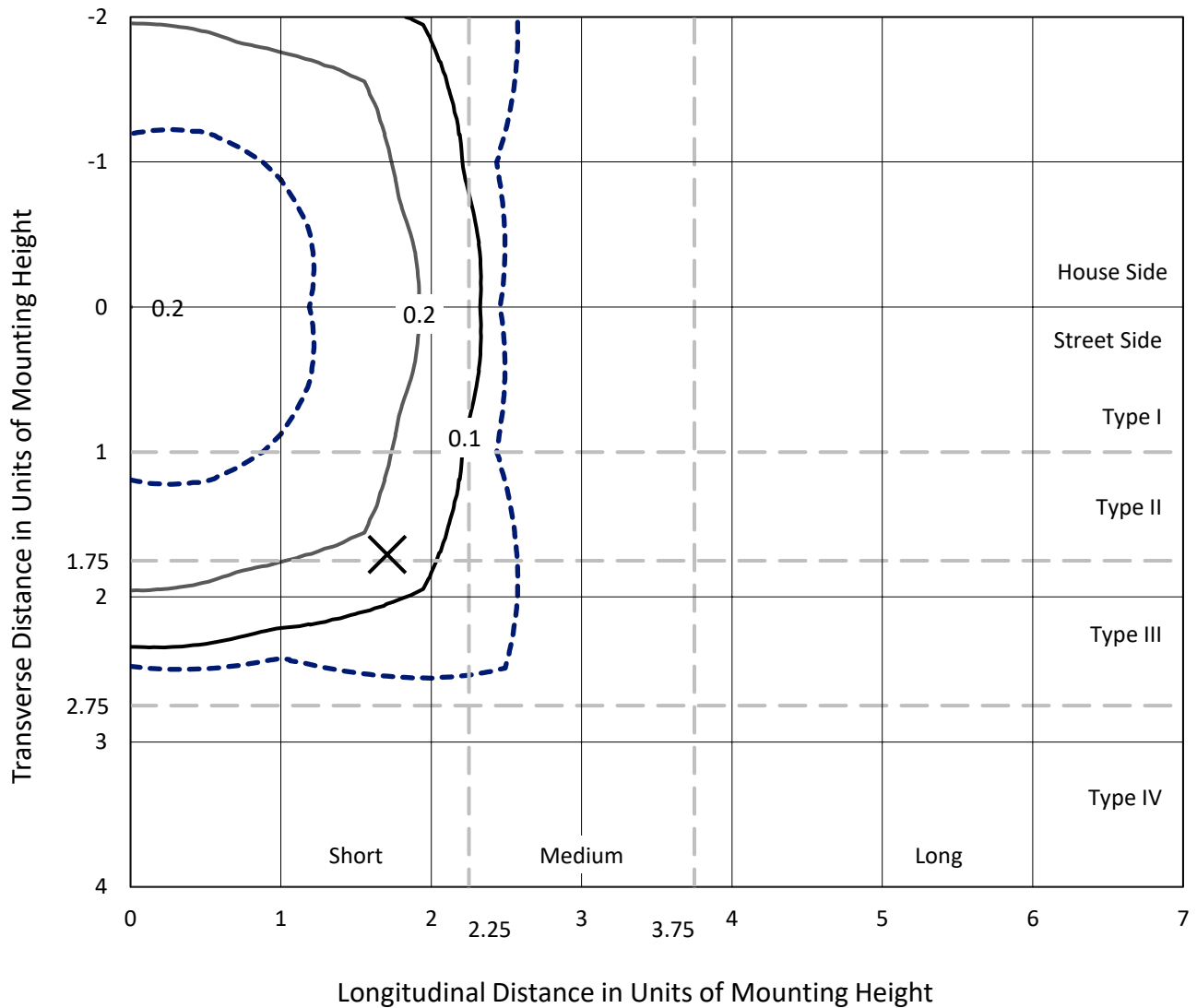
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

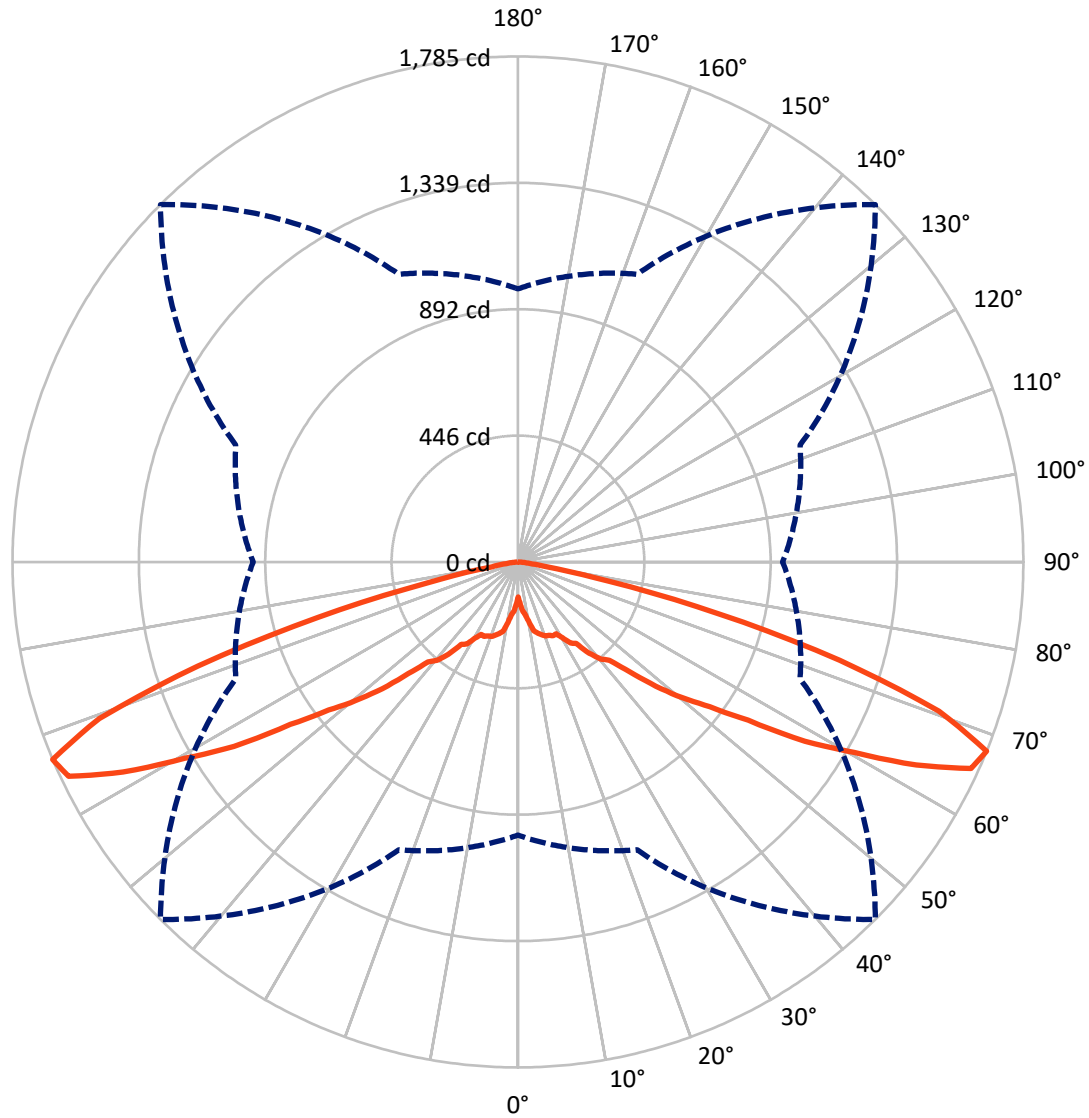
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 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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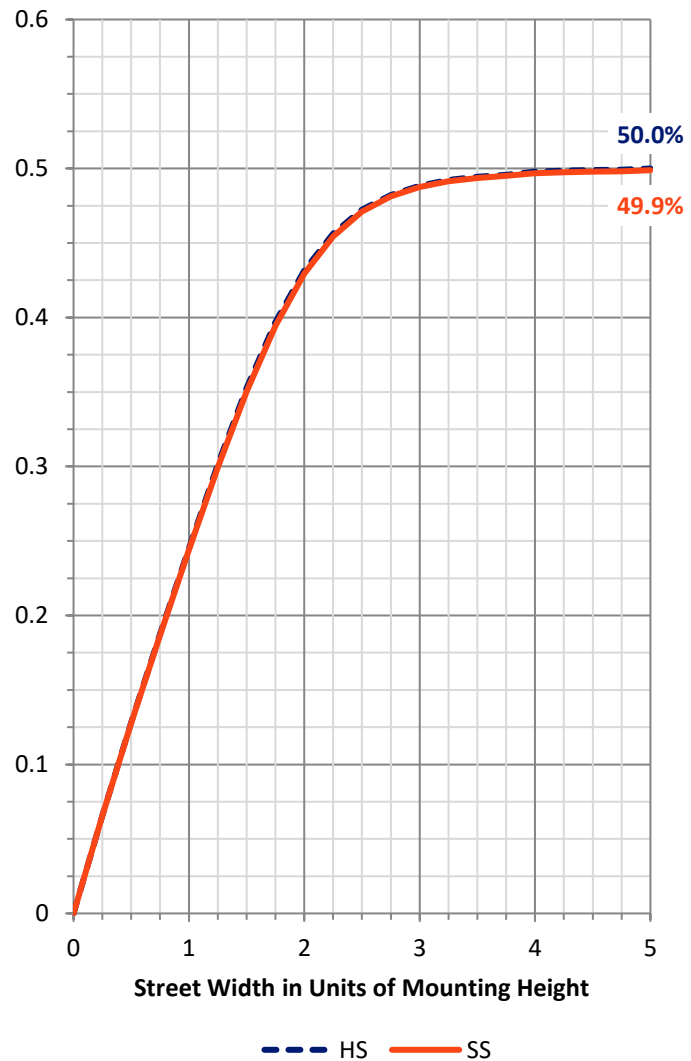
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1794.0	0.0	1794.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1794.0	0.0	1794.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3588.0	0.0	3588.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.3	0.5
10°-20°	72.5	2.0
20°-30°	138.3	3.9
30°-40°	252.9	7.0
40°-50°	490.3	13.7
50°-60°	936.4	26.1
60°-70°	1265.1	35.3
70°-80°	392.9	11.0
80°-90°	21.2	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°	3588.0	100.0
0°-180°	3588.0	100.0



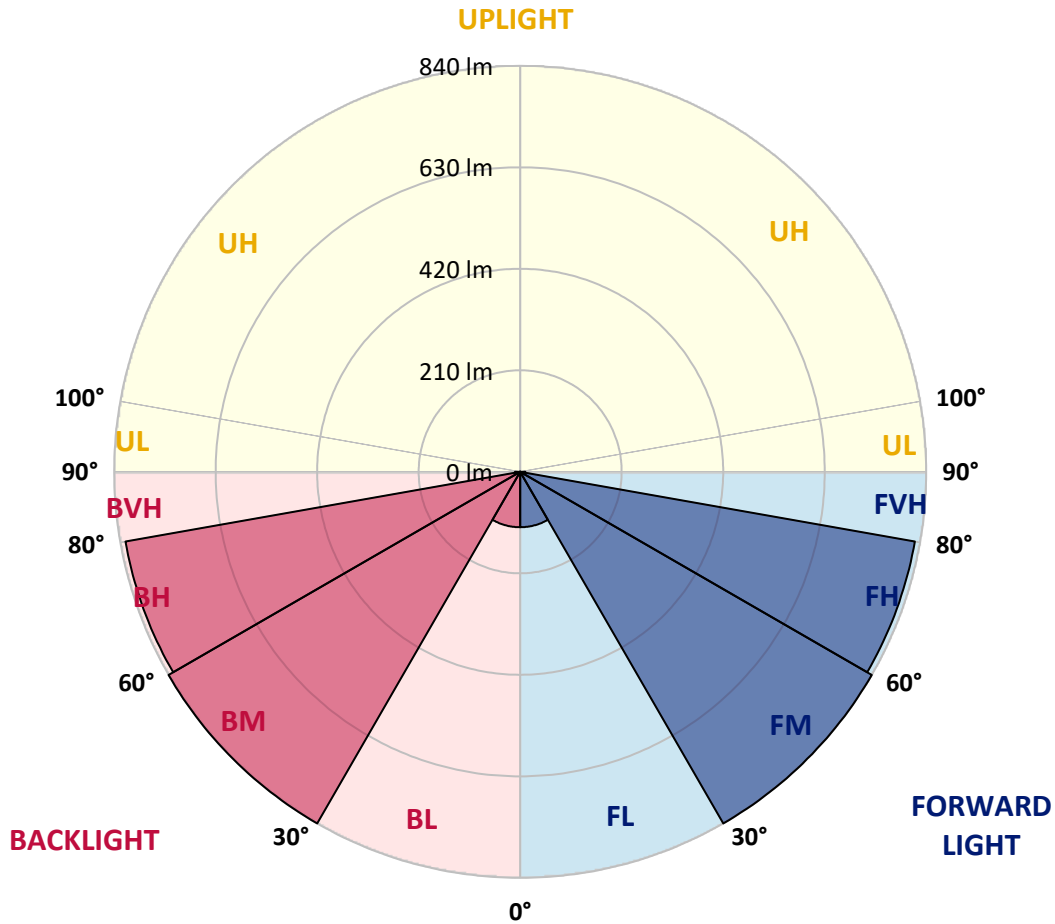
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	114.6	3.2			
FM (30°-60°)	839.8	23.4			
FH (60°-80°)	829.0	23.1			G1/1800
FVH (80°-90°)	10.6	0.3			G1/100
BL (0°-30°)	114.6	3.2	B1/500		
BM (30°-60°)	839.8	23.4	B1/1000		
BH (60°-80°)	829.0	23.1	B2/1000		G1/1800
BVH (80°-90°)	10.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	123.0	123.0	123.0	123.0	123.0
2.5°	151.4	141.7	146.1	141.7	151.4
5°	192.4	182.3	173.4	179.8	193.0
7.5°	221.1	206.0	187.3	204.3	219.8
10°	225.9	217.5	216.7	216.5	225.4
12.5°	244.1	238.4	249.8	239.0	244.7
15°	258.2	255.1	260.2	259.1	258.8
17.5°	280.1	258.5	270.2	257.3	279.4
20°	289.8	259.2	278.8	257.7	289.7
22.5°	301.8	275.6	281.4	276.3	300.7
25°	308.6	286.1	288.2	286.4	308.7
27.5°	336.4	309.4	287.2	313.1	341.5
30°	357.6	324.5	309.9	324.9	360.3
32.5°	388.3	347.1	341.4	352.6	393.1
35°	426.2	385.1	353.2	385.2	434.3
37.5°	500.7	419.6	408.4	431.8	506.2
40°	553.2	474.1	450.1	482.8	562.2
42.5°	633.9	535.2	474.3	539.6	647.7
45°	709.0	609.4	551.7	614.5	719.1
47.5°	788.4	677.4	655.8	683.8	795.9
50°	882.3	769.6	754.5	776.8	885.5
52.5°	993.0	893.0	848.3	897.1	994.1
55°	1124.6	996.5	986.5	1007.9	1126.3
57.5°	1253.2	1130.7	1194.7	1131.9	1230.9
60°	1345.0	1254.3	1365.9	1222.4	1295.5
62.5°	1350.8	1346.0	1579.1	1291.9	1281.6
65°	1224.9	1308.9	1757.6	1266.7	1163.4
67.5°	964.2	1099.6	1784.7	1078.3	934.7
70°	605.9	761.4	1577.7	790.7	623.1
72.5°	279.4	410.3	1188.1	461.9	295.4
75°	100.1	157.1	733.0	168.7	104.7
77.5°	56.8	63.6	323.9	63.9	58.8
80°	36.6	39.6	93.6	41.9	35.6
82.5°	20.8	27.7	41.0	29.4	19.1
85°	11.2	17.6	18.2	18.0	11.2
87.5°	4.0	6.9	4.0	7.9	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)