

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: P596871

Luminaire Tested: **MSA-SA1C-835-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596871
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-SA1C-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: 5569 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

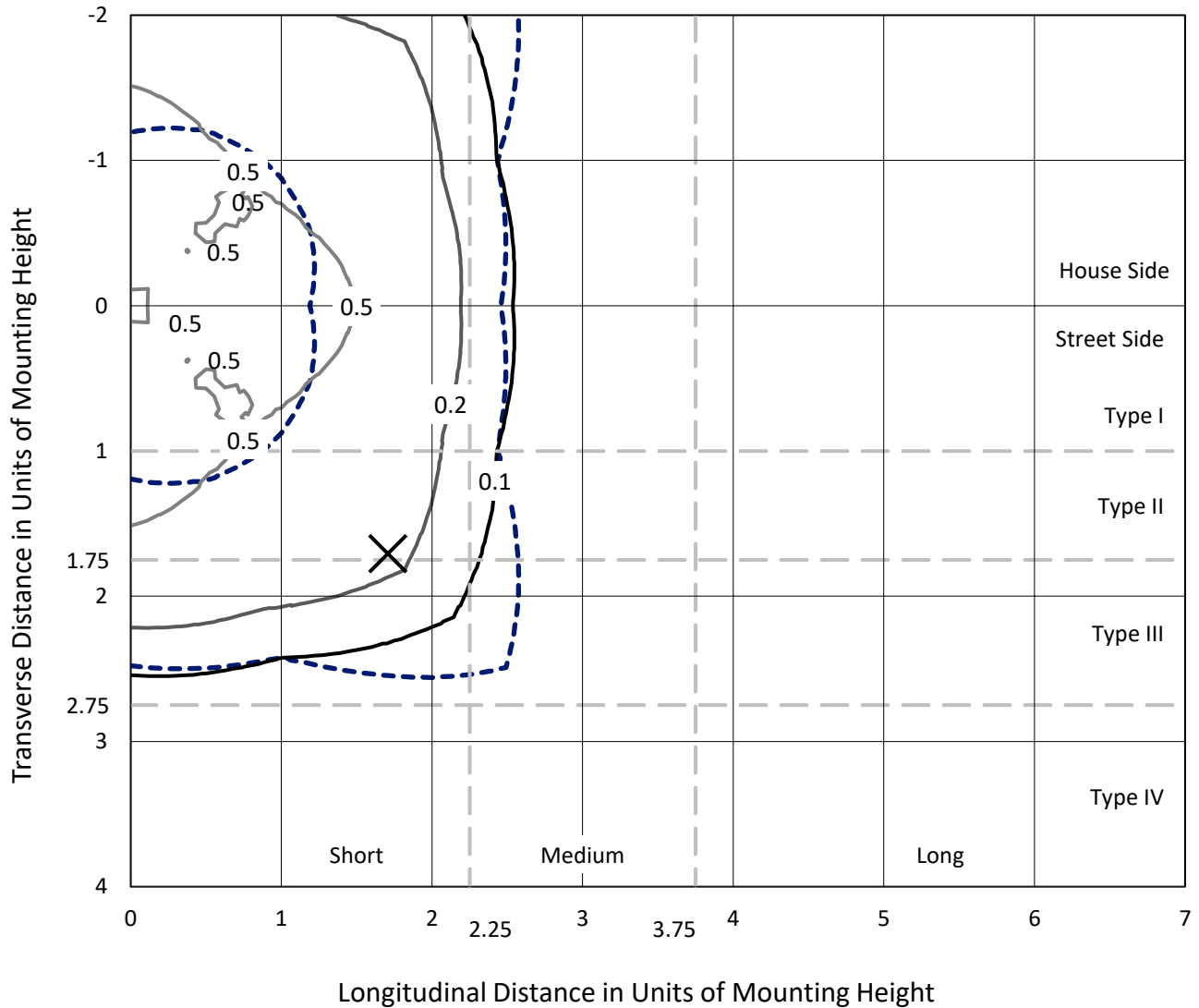
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

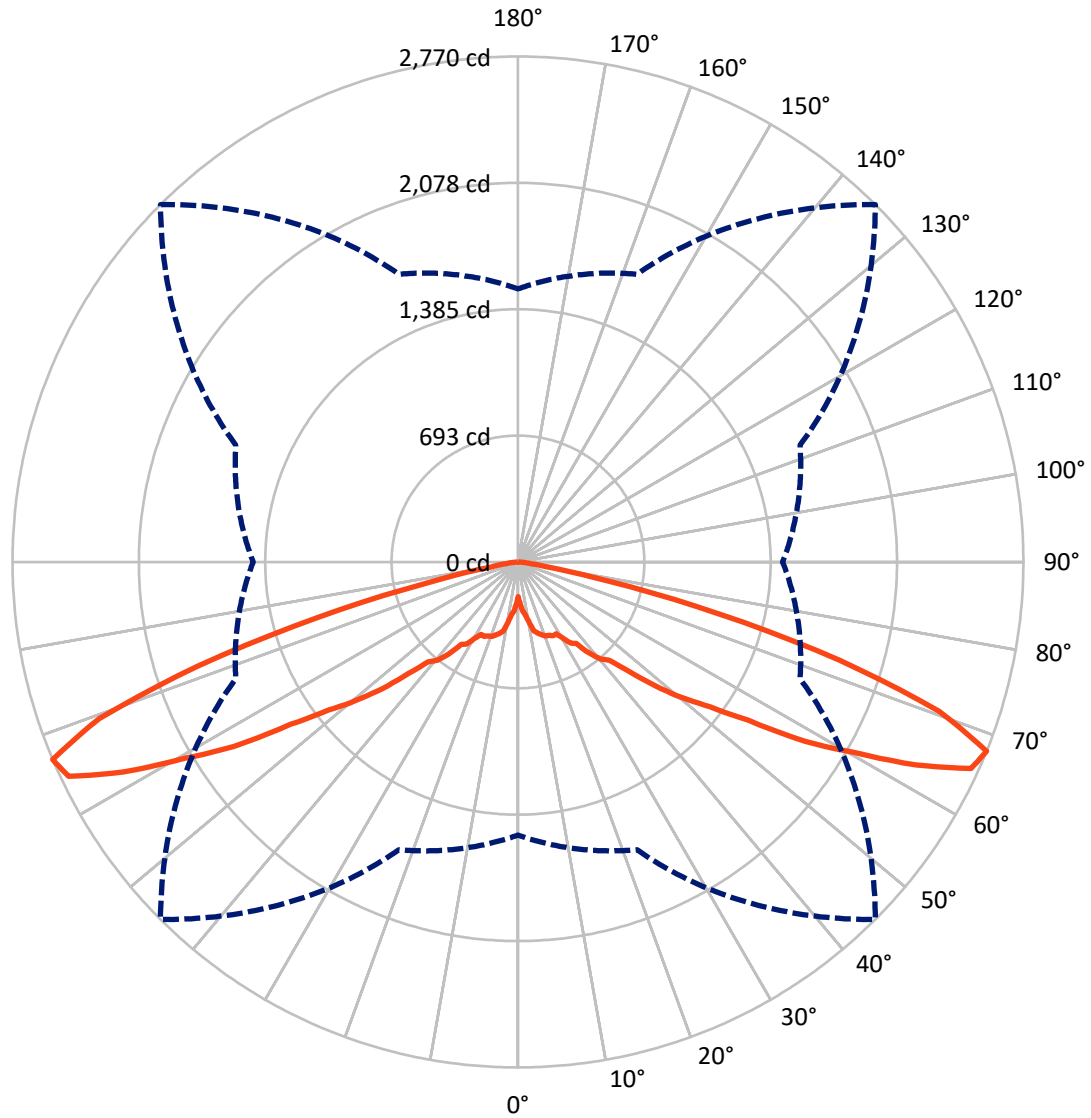
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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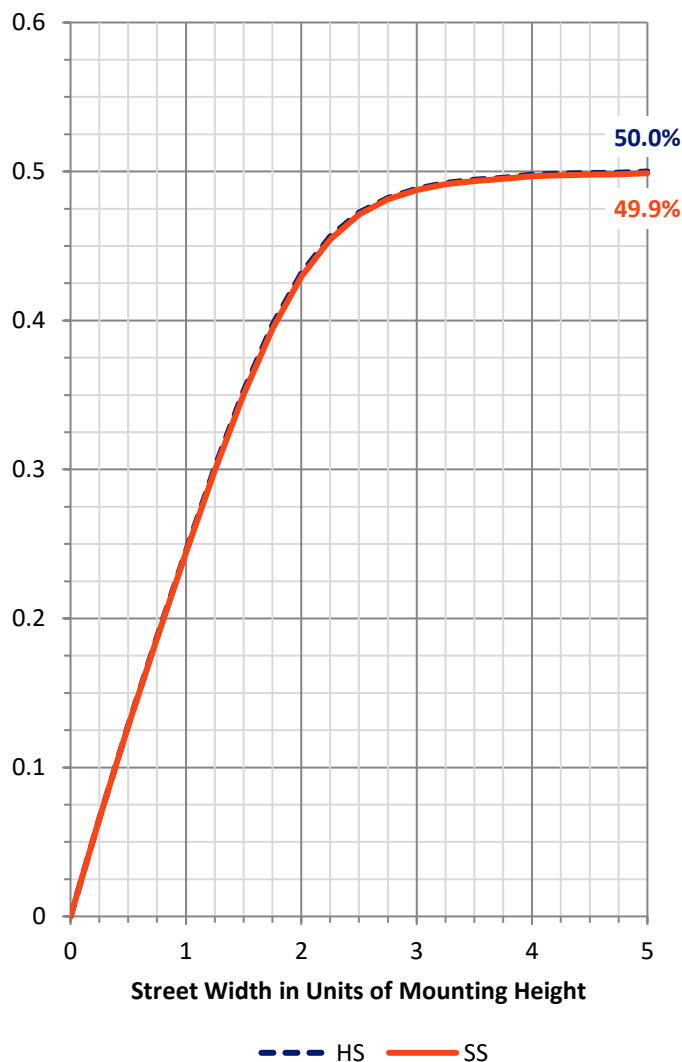
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2784.5	0.0	2784.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2784.5	0.0	2784.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5569.0	0.0	5569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	0.5
10°-20°	112.5	2.0
20°-30°	214.7	3.9
30°-40°	392.5	7.0
40°-50°	761.1	13.7
50°-60°	1453.4	26.1
60°-70°	1963.7	35.3
70°-80°	609.8	11.0
80°-90°	32.9	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°	5569.0	100.0
0°-180°	5569.0	100.0

Coefficient of Utilization



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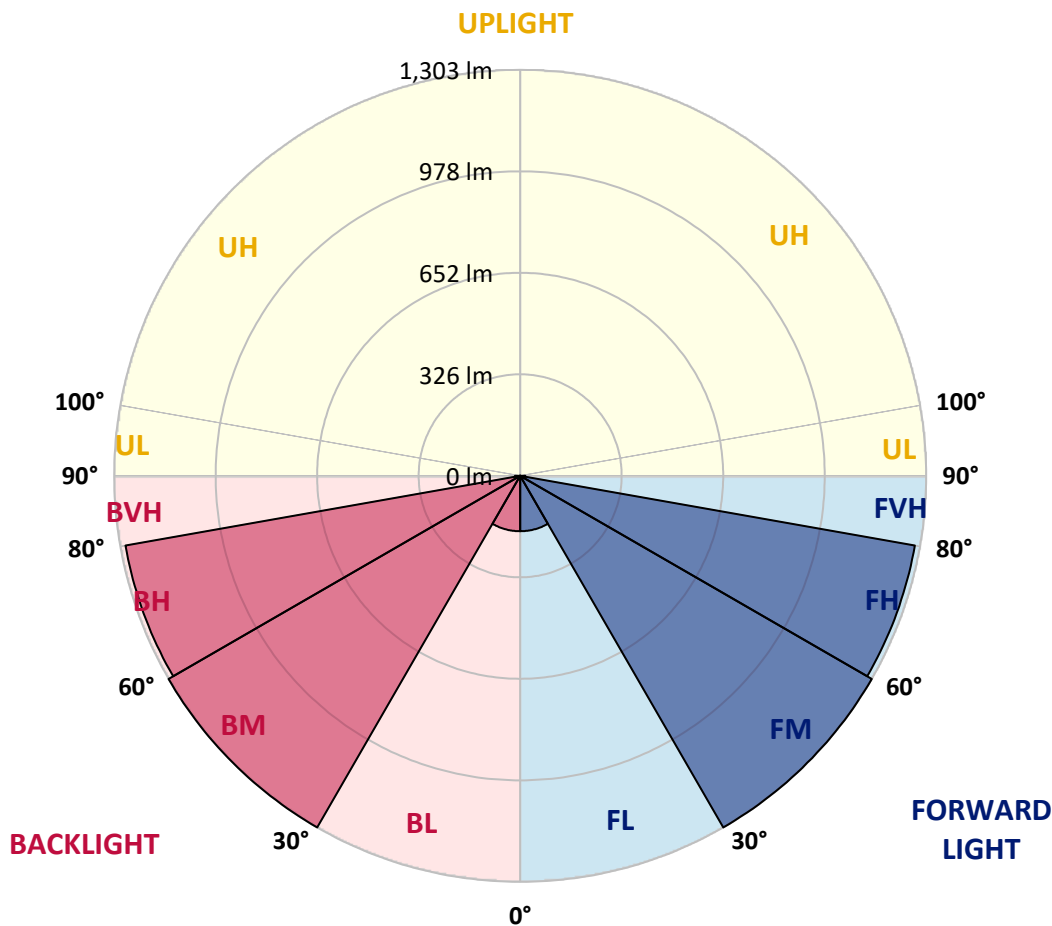
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	177.8	3.2			
FM (30°-60°)	1303.5	23.4			
FH (60°-80°)	1286.8	23.1			G1/1800
FVH (80°-90°)	16.4	0.3			G1/100
BL (0°-30°)	177.8	3.2	B1/500		
BM (30°-60°)	1303.5	23.4	B2/2500		
BH (60°-80°)	1286.8	23.1	B3/2500		G1/1800
BVH (80°-90°)	16.4	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	190.8	190.8	190.8	190.8	190.8
2.5°	234.9	219.9	226.8	219.9	234.9
5°	298.6	282.9	269.1	279.0	299.5
7.5°	343.2	319.7	290.7	317.1	341.2
10°	350.7	337.6	336.3	336.1	349.8
12.5°	378.9	370.1	387.7	370.9	379.7
15°	400.8	395.9	403.8	402.1	401.7
17.5°	434.8	401.3	419.3	399.3	433.7
20°	449.9	402.3	432.7	400.0	449.7
22.5°	468.4	427.7	436.7	428.8	466.7
25°	478.9	444.1	447.3	444.5	479.1
27.5°	522.2	480.2	445.8	486.0	530.1
30°	555.1	503.7	481.1	504.3	559.2
32.5°	602.6	538.7	529.9	547.3	610.2
35°	661.6	597.7	548.2	597.9	674.1
37.5°	777.1	651.3	633.8	670.2	785.7
40°	858.7	735.8	698.6	749.4	872.6
42.5°	983.9	830.7	736.2	837.6	1005.4
45°	1100.5	945.8	856.3	953.7	1116.2
47.5°	1223.8	1051.4	1017.9	1061.3	1235.4
50°	1369.4	1194.5	1171.0	1205.7	1374.4
52.5°	1541.3	1386.0	1316.7	1392.4	1543.0
55°	1745.5	1546.7	1531.2	1564.3	1748.1
57.5°	1945.1	1755.0	1854.4	1756.9	1910.5
60°	2087.6	1946.9	2120.1	1897.4	2010.8
62.5°	2096.6	2089.1	2451.0	2005.2	1989.3
65°	1901.3	2031.6	2728.1	1966.0	1805.7
67.5°	1496.6	1706.8	2770.0	1673.6	1450.7
70°	940.4	1181.8	2448.8	1227.2	967.1
72.5°	433.7	636.8	1844.0	716.9	458.5
75°	155.3	243.8	1137.7	261.8	162.4
77.5°	88.2	98.8	502.8	99.2	91.2
80°	56.8	61.5	145.2	65.0	55.3
82.5°	32.3	43.0	63.7	45.6	29.7
85°	17.4	27.3	28.2	28.0	17.4
87.5°	6.2	10.8	6.2	12.3	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)