

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: P596939

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2B-835-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8809 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

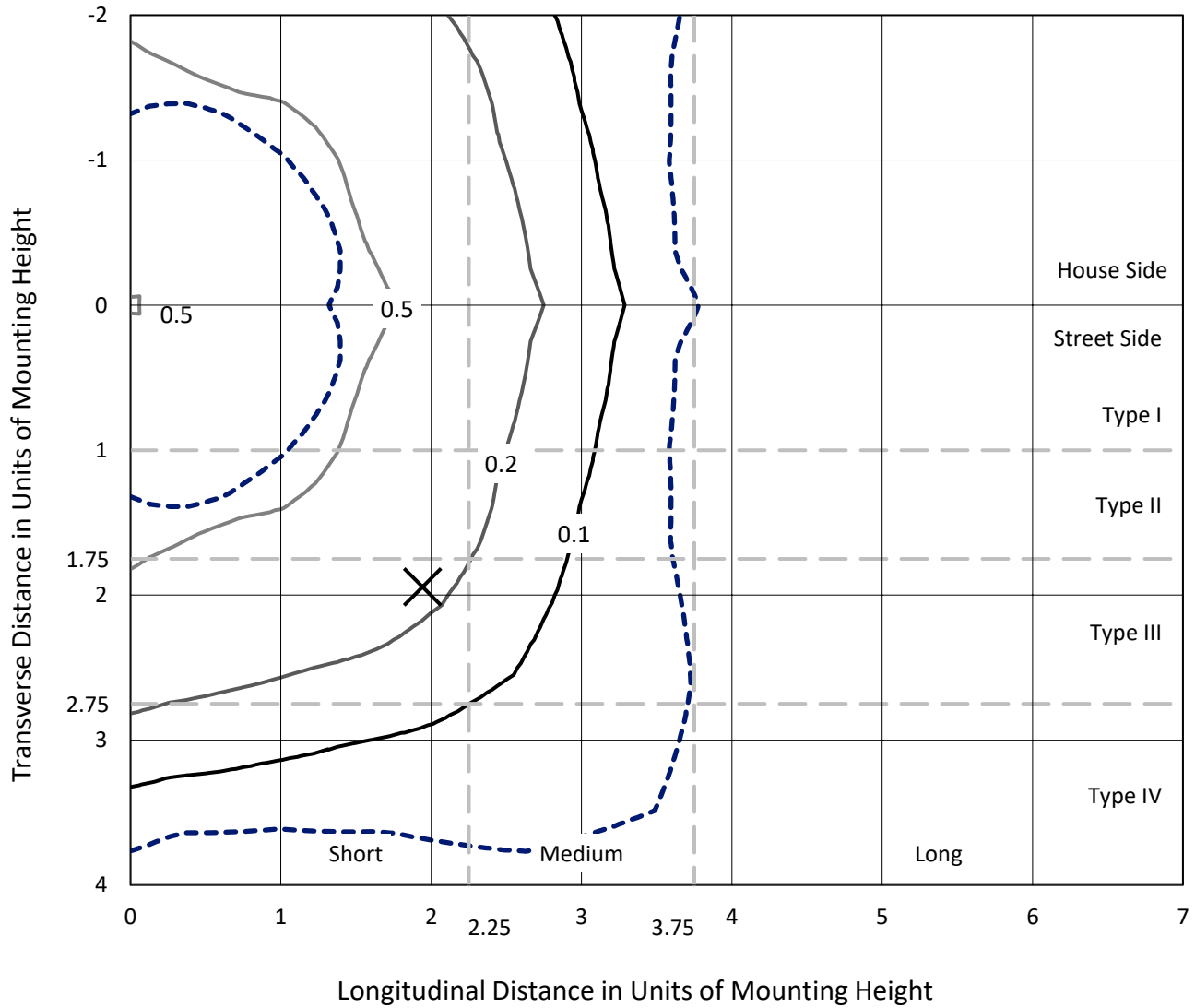
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

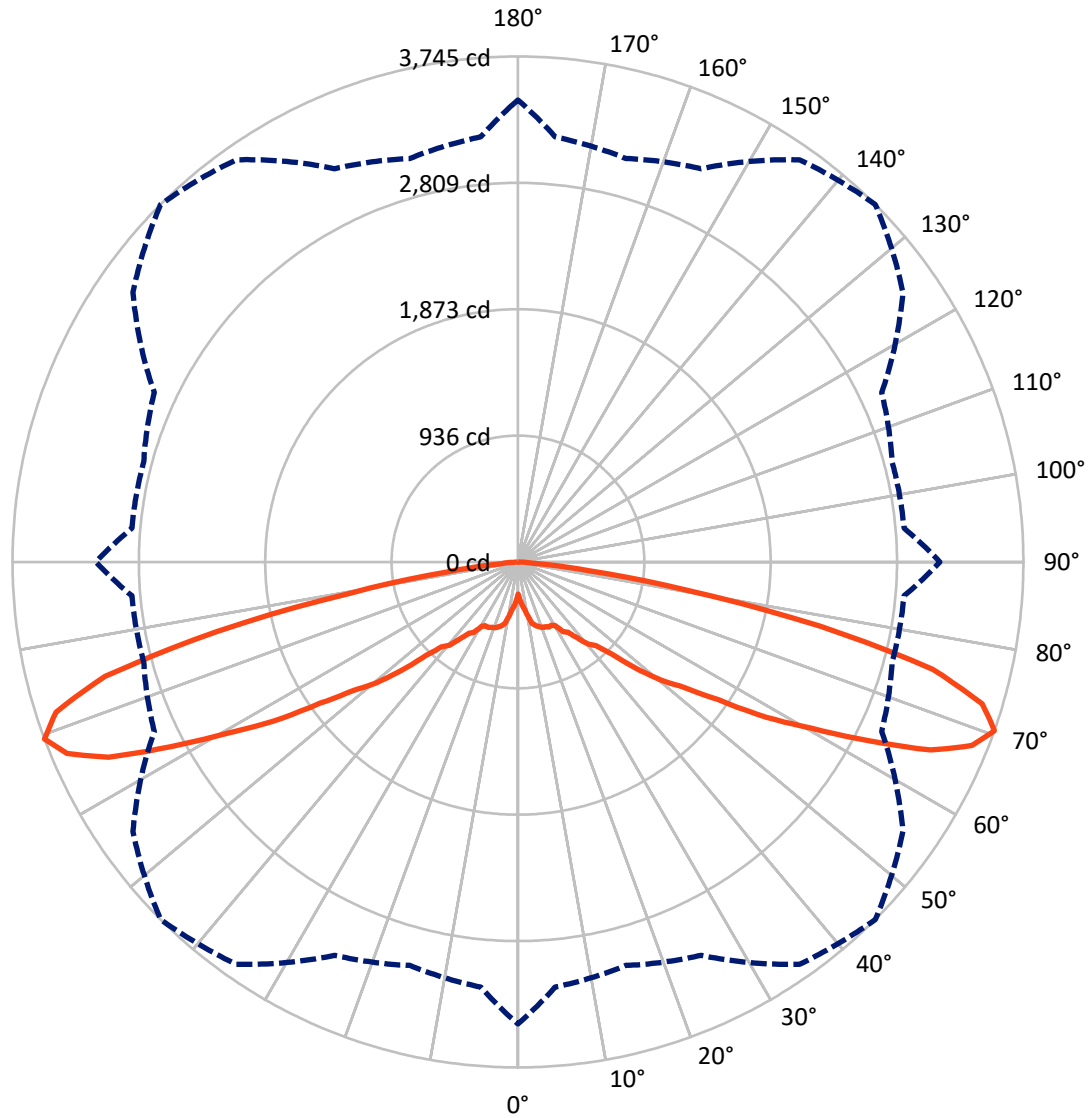
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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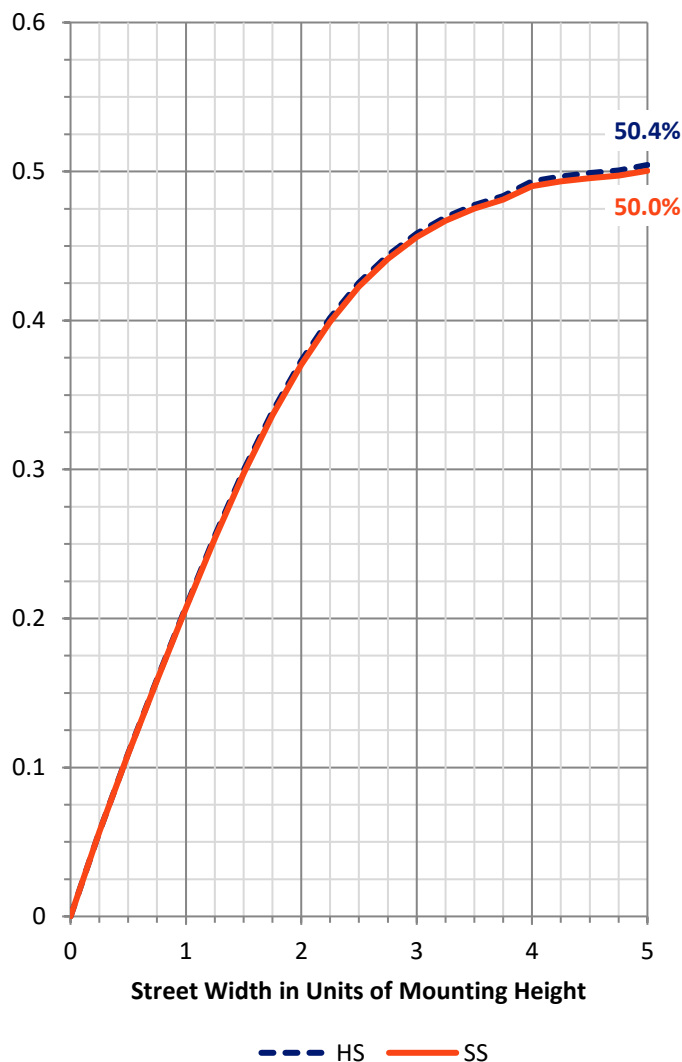
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4404.5	0.0	4404.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4404.5	0.0	4404.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8809.0	0.0	8809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	0.4
10°-20°	138.7	1.6
20°-30°	262.2	3.0
30°-40°	456.6	5.2
40°-50°	873.0	9.9
50°-60°	1692.8	19.2
60°-70°	2964.1	33.6
70°-80°	2227.7	25.3
80°-90°	159.4	1.8
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°	8809.0	100.0
0°-180°	8809.0	100.0

Coefficient of Utilization



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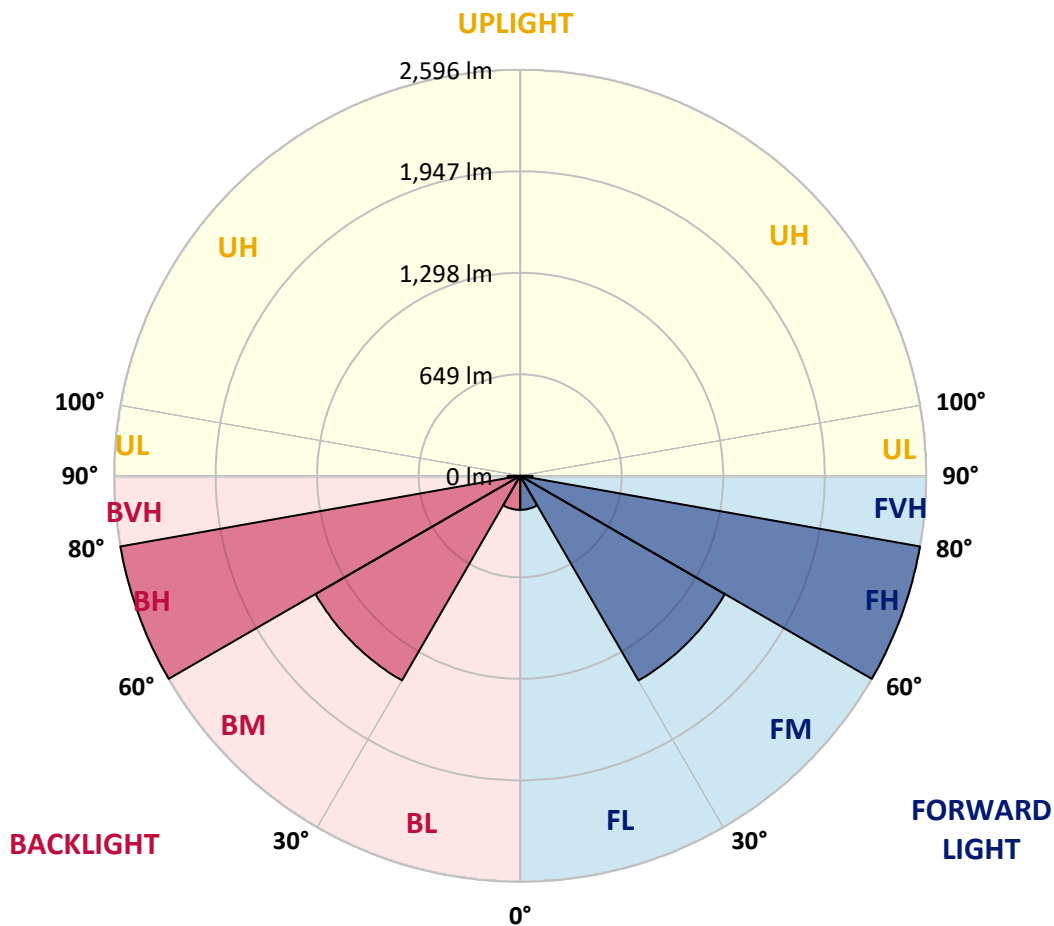
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.7	2.5			
FM (30°-60°)	1511.2	17.2			
FH (60°-80°)	2595.9	29.5			G2/5000
FVH (80°-90°)	79.7	0.9			G1/100
BL (0°-30°)	217.7	2.5	B1/500		
BM (30°-60°)	1511.2	17.2	B2/2500		
BH (60°-80°)	2595.9	29.5	B4/5000		G2/5000
BVH (80°-90°)	79.7	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	238.2	238.2	238.2	238.2	238.2	238.2	238.2	238.2	238.2	238.2	238.2
2.5°	289.8	285.3	271.3	272.0	278.5	279.2	279.9	271.3	269.3	286.7	287.7
5°	368.0	357.8	347.5	343.4	337.3	320.2	339.0	341.1	345.2	358.5	364.6
7.5°	420.3	407.7	393.7	385.1	368.4	354.4	369.8	382.4	390.6	405.6	414.2
10°	430.2	422.7	422.0	407.0	403.9	409.1	408.0	408.4	420.7	421.0	426.1
12.5°	461.3	466.8	456.2	451.1	454.2	466.8	456.6	452.1	455.2	469.2	463.4
15°	502.0	508.5	492.4	484.2	476.0	488.0	477.4	485.3	495.2	505.4	500.3
17.5°	547.1	547.5	525.6	495.2	502.3	504.1	500.3	493.8	522.2	546.8	544.4
20°	571.7	571.4	533.8	492.4	513.6	517.4	514.0	491.8	534.5	568.3	567.3
22.5°	597.0	589.5	544.4	510.9	518.8	521.8	514.0	511.9	544.4	591.5	591.2
25°	610.7	617.2	567.6	546.8	540.3	533.1	539.9	543.4	574.5	620.6	607.3
27.5°	653.4	642.8	574.5	572.4	558.7	530.4	554.0	570.7	572.4	646.9	660.6
30°	692.0	696.1	605.2	608.3	583.3	547.5	584.0	610.7	615.8	696.8	695.4
32.5°	733.0	734.7	659.9	628.1	617.5	616.1	602.1	625.4	665.7	730.6	733.4
35°	795.2	809.2	708.8	666.0	652.7	639.0	651.3	672.2	709.8	807.2	800.3
37.5°	937.7	915.5	815.0	726.5	717.6	712.2	722.1	737.1	814.0	917.9	949.7
40°	1037.2	1026.6	889.9	826.7	770.6	800.0	776.8	834.9	898.4	1027.3	1047.8
42.5°	1191.3	1144.1	1003.7	925.4	867.3	846.5	859.5	935.3	1016.3	1159.8	1200.2
45°	1339.3	1266.5	1146.2	1077.1	989.0	967.1	984.5	1073.7	1167.4	1280.8	1351.9
47.5°	1490.3	1415.1	1282.9	1183.1	1111.0	1176.3	1119.2	1203.9	1297.2	1429.1	1492.4
50°	1647.2	1563.8	1433.2	1324.6	1318.4	1376.2	1307.8	1351.2	1437.7	1574.4	1648.9
52.5°	1827.3	1737.4	1606.8	1533.4	1547.7	1544.0	1530.3	1522.4	1607.5	1741.8	1830.3
55°	2041.5	1944.5	1840.2	1806.4	1846.0	1803.3	1823.5	1820.8	1833.1	1929.1	2032.6
57.5°	2300.6	2190.9	2086.3	2078.8	2129.7	2170.0	2134.1	2082.5	2061.0	2154.3	2272.9
60°	2626.9	2492.3	2377.4	2353.9	2499.1	2498.8	2466.3	2350.8	2342.6	2448.2	2591.0
62.5°	2987.4	2823.4	2698.0	2660.4	2888.0	2913.6	2812.5	2605.4	2647.8	2732.9	2902.4
65°	3293.6	3096.5	2979.6	2969.3	3247.5	3360.6	3137.1	2853.8	2867.5	2938.2	3121.7
67.5°	3493.2	3255.7	3162.8	3212.3	3558.1	3628.9	3421.1	3019.9	2971.4	3000.8	3220.2
70°	3423.2	3162.1	3095.1	3215.4	3638.4	3745.4	3482.3	2973.4	2870.2	2871.6	3126.5
72.5°	2892.4	2644.0	2675.8	2896.5	3448.4	3598.5	3199.3	2685.7	2474.5	2469.4	2700.7
75°	1912.7	1746.6	1872.0	2216.1	2866.8	3173.7	2650.8	2105.1	1840.2	1754.1	1932.9
77.5°	836.6	815.4	921.0	1309.9	1954.4	2287.2	1899.0	1375.1	1000.9	832.5	909.4
80°	224.2	219.4	275.4	496.9	951.4	1259.6	1027.6	548.5	286.4	208.5	221.1
82.5°	81.7	83.7	102.2	139.1	313.4	530.4	341.4	160.3	108.3	88.9	88.9
85°	35.5	34.5	49.6	55.7	85.4	119.9	98.1	68.0	54.7	41.0	39.3
87.5°	9.6	12.0	16.7	17.4	22.2	18.1	26.0	23.9	20.5	14.4	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)