

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: P597026

Luminaire Tested: **MSA-SA3B-835-U-5NQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3B-835-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12401 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

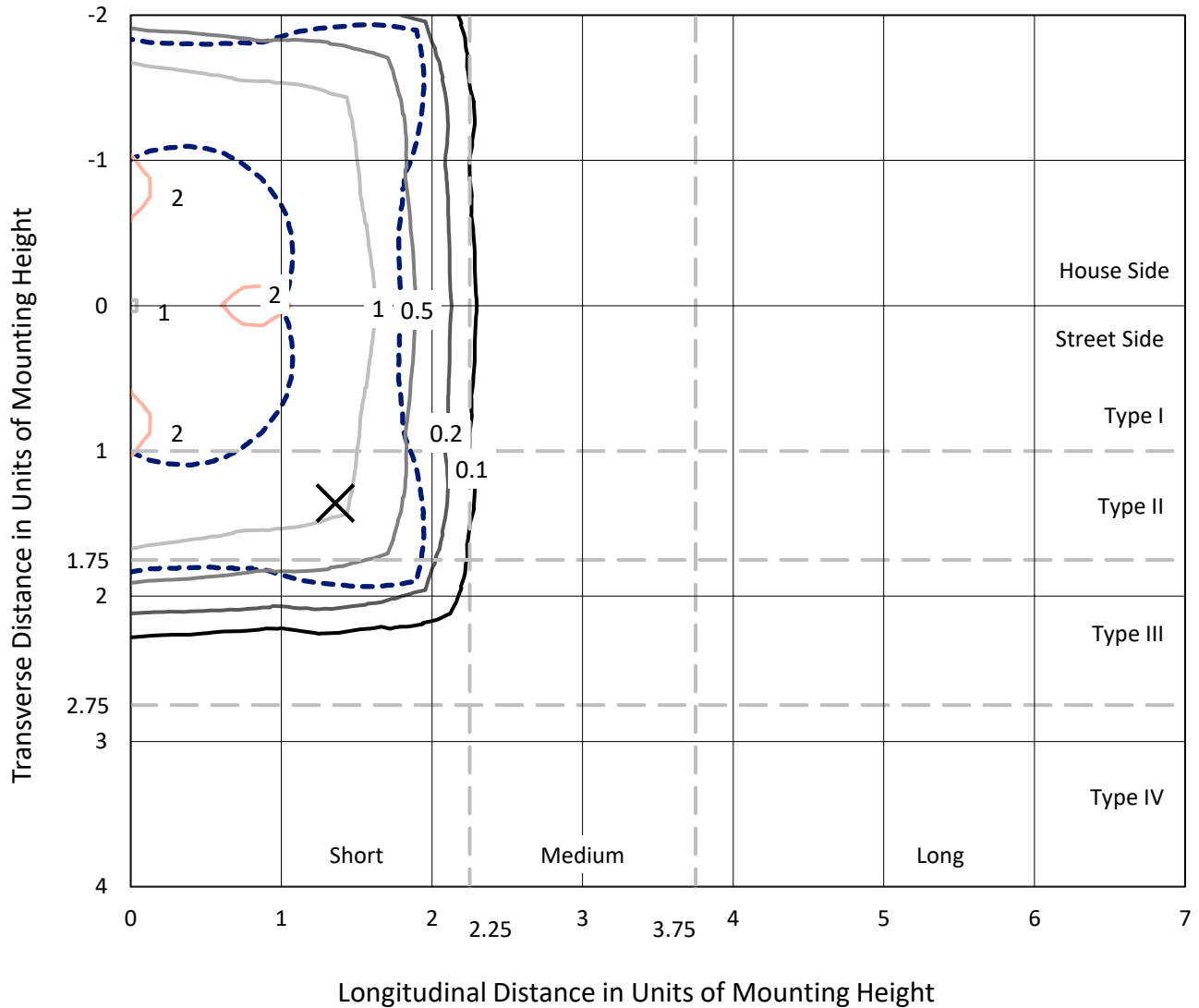
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

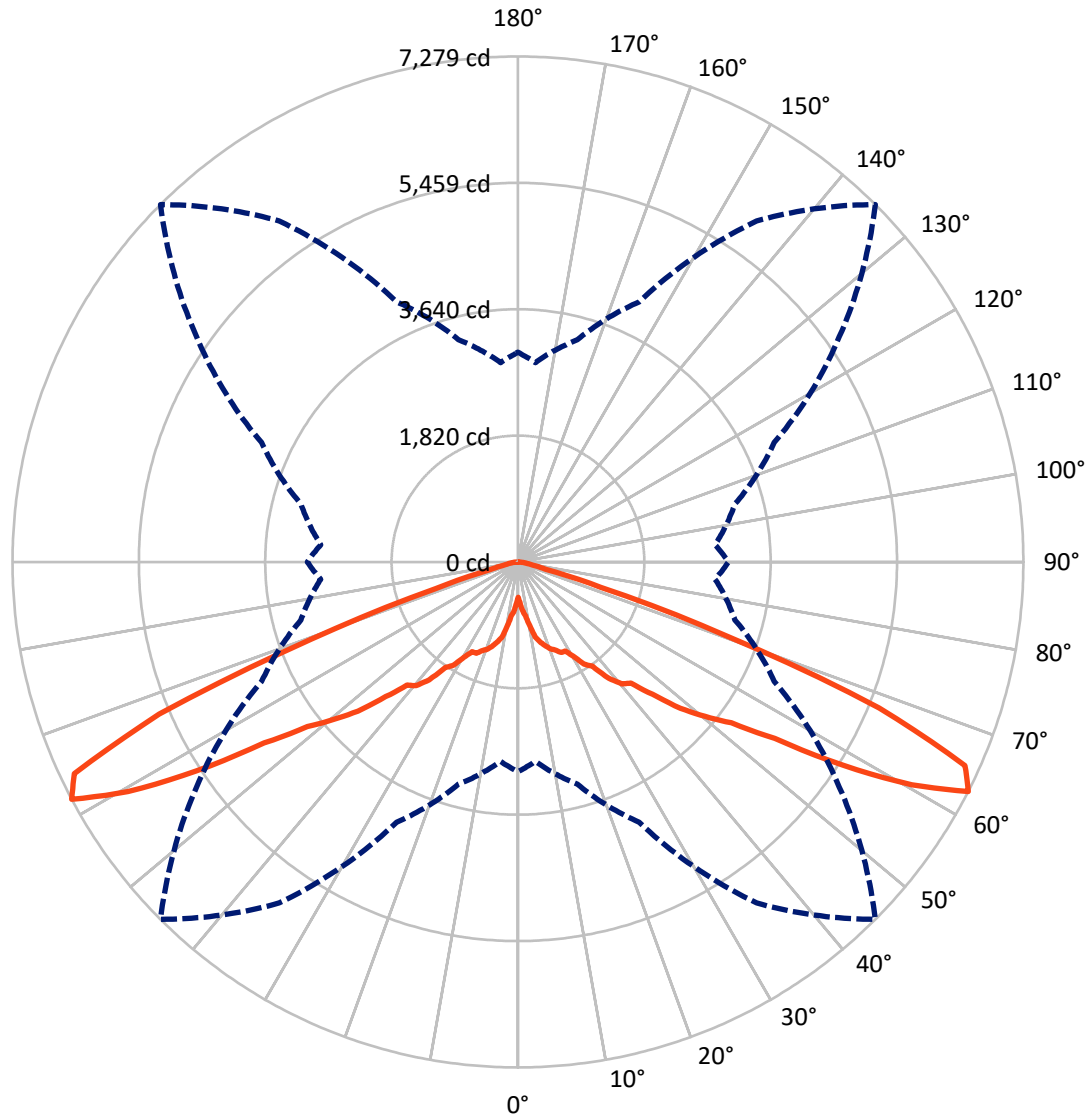
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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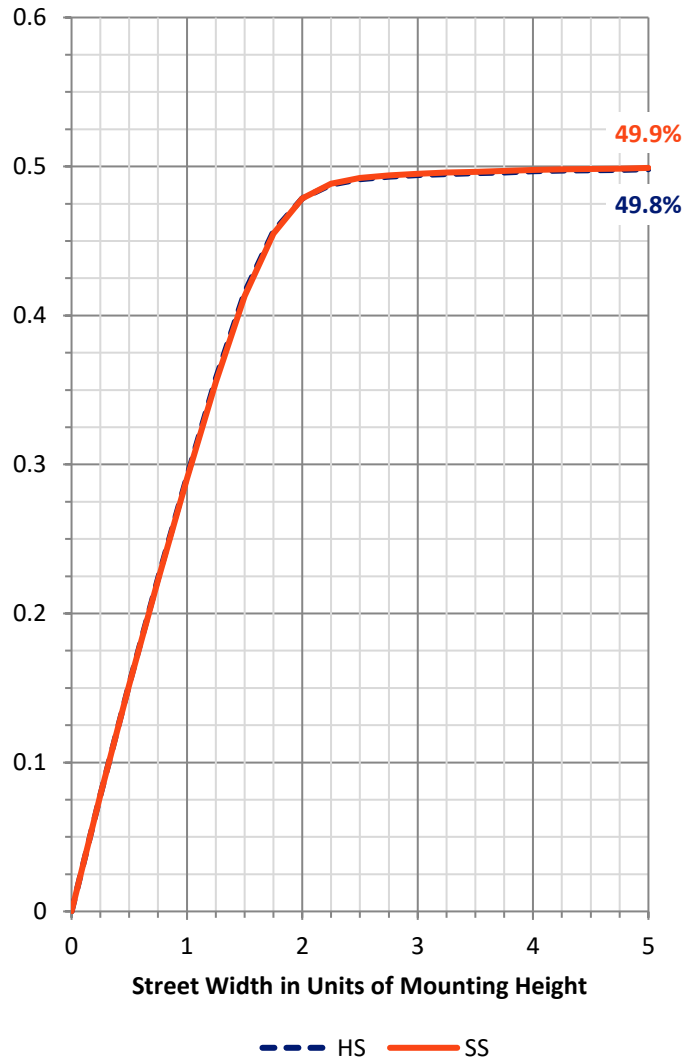
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6200.5	0.0	6200.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6200.5	0.0	6200.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12401.0	0.0	12401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	0.6
10°-20°	336.9	2.7
20°-30°	706.2	5.7
30°-40°	1330.6	10.7
40°-50°	2415.0	19.5
50°-60°	4080.6	32.9
60°-70°	3050.5	24.6
70°-80°	341.3	2.8
80°-90°	63.5	0.5
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°	12401.0	100.0
0°-180°	12401.0	100.0

Coefficient of Utilization



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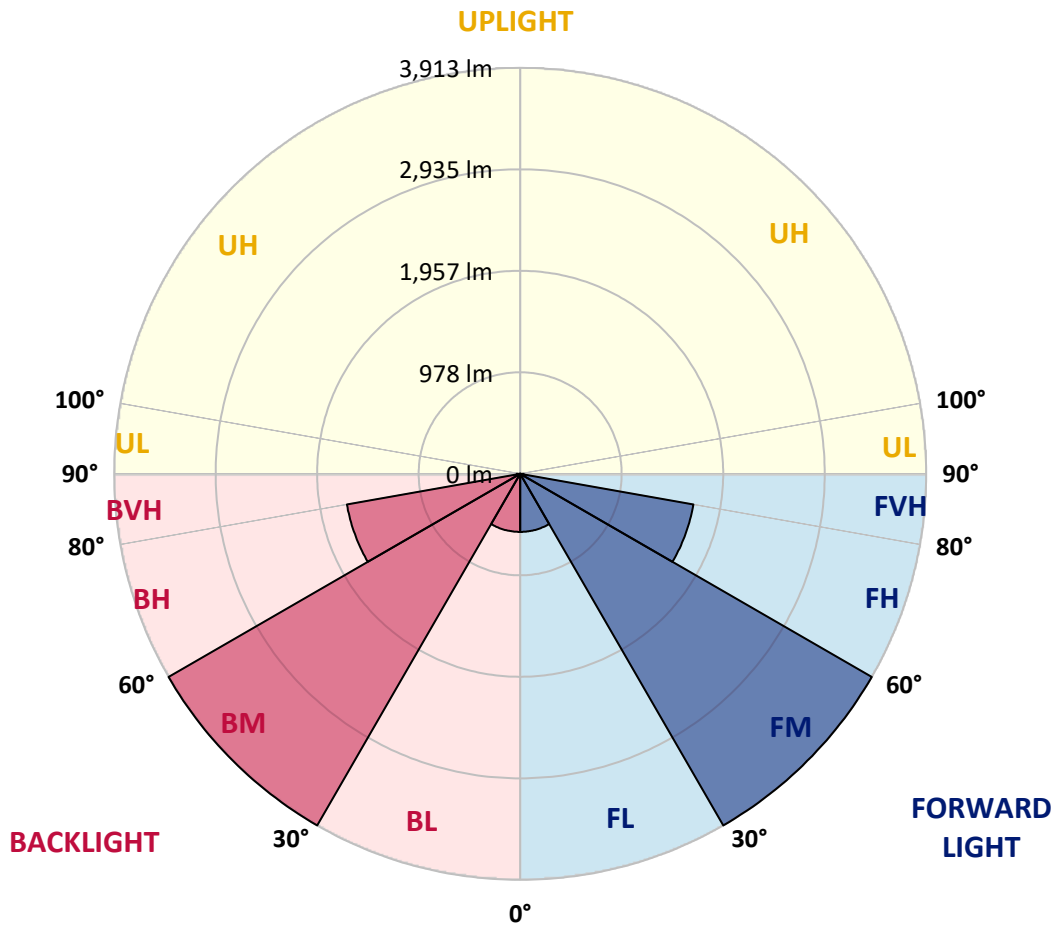
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.8	4.5			
FM (30°-60°)	3913.1	31.6			
FH (60°-80°)	1695.9	13.7			G1/1800
FVH (80°-90°)	31.8	0.3			G1/100
BL (0°-30°)	559.8	4.5	B2/1000		
BM (30°-60°)	3913.1	31.6	B3/5000		
BH (60°-80°)	1695.9	13.7	B3/2500		G1/1800
BVH (80°-90°)	31.8	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0
2.5°	616.5	605.4	566.6	580.2	594.3	592.3	588.8	578.2	568.6	608.5	616.5
5°	786.0	760.8	747.2	736.1	733.6	706.3	743.7	739.6	752.2	773.4	794.1
7.5°	921.3	897.5	861.7	854.2	813.3	783.0	815.3	855.2	867.8	906.6	929.8
10°	970.7	950.0	956.6	922.8	920.8	929.3	922.3	931.3	964.6	960.1	977.3
12.5°	1081.7	1085.2	1064.0	1055.5	1072.6	1109.9	1078.2	1067.1	1059.0	1093.3	1103.9
15°	1185.6	1206.3	1171.5	1165.9	1158.9	1193.7	1159.4	1176.0	1190.7	1197.7	1193.7
17.5°	1332.9	1334.0	1295.1	1233.0	1256.3	1267.4	1252.2	1223.5	1292.6	1327.4	1329.4
20°	1429.8	1433.3	1356.7	1259.8	1325.4	1335.5	1327.9	1267.9	1359.7	1417.7	1415.2
22.5°	1534.2	1522.1	1418.2	1347.6	1370.8	1376.8	1360.7	1353.1	1417.7	1523.1	1507.5
25°	1604.4	1626.6	1523.1	1477.7	1458.1	1443.9	1464.6	1468.7	1534.8	1630.6	1577.6
27.5°	1771.9	1733.5	1571.6	1588.7	1546.9	1451.5	1542.3	1592.3	1578.1	1741.6	1781.5
30°	1920.7	1921.7	1694.7	1727.5	1649.8	1572.6	1671.0	1743.1	1725.5	1934.8	1897.0
32.5°	2110.9	2118.0	1907.1	1819.3	1766.8	1752.2	1740.1	1819.8	1929.8	2099.3	2102.8
35°	2316.3	2376.8	2090.2	1997.9	1908.6	1844.0	1913.6	2024.1	2095.8	2366.7	2318.8
37.5°	2716.3	2614.4	2379.8	2206.3	2149.3	2123.5	2160.4	2224.4	2379.3	2612.9	2695.2
40°	2953.0	2924.7	2605.3	2460.0	2240.1	2308.7	2288.5	2464.1	2592.2	2940.9	2948.4
42.5°	3314.7	3172.4	2885.4	2700.7	2502.9	2383.9	2510.0	2745.6	2900.5	3195.1	3334.4
45°	3600.8	3418.1	3196.6	3056.4	2806.7	2718.4	2763.8	3065.5	3259.7	3462.0	3645.2
47.5°	3917.1	3719.3	3497.8	3248.6	3004.9	3148.7	3068.5	3333.9	3523.6	3813.7	3985.2
50°	4314.7	4095.7	3812.2	3606.3	3444.9	3495.3	3482.7	3671.9	3906.0	4170.4	4365.1
52.5°	4752.6	4504.9	4231.4	4040.2	3972.1	3847.0	4010.4	4088.1	4260.7	4502.9	4731.4
55°	5058.8	4811.1	4645.6	4707.2	4689.0	4488.2	4631.5	4639.6	4556.3	4643.6	4873.7
57.5°	5011.4	4774.8	4752.1	4984.7	5332.3	5526.5	5305.0	4828.8	4517.0	4476.1	4719.8
60°	4381.8	4179.5	4387.3	4912.0	5924.6	6515.9	5663.3	4686.0	4172.4	3960.0	4195.1
62.5°	3019.6	2882.8	3313.7	4134.0	5995.7	7279.2	5650.1	4072.0	3236.0	2850.5	3033.2
65°	1431.3	1381.9	1745.6	2621.0	4994.3	7075.4	4936.2	2755.2	1862.7	1487.8	1529.2
67.5°	538.3	513.6	640.7	1157.9	3145.7	5611.8	3318.2	1359.2	720.5	560.0	579.2
70°	305.7	288.1	304.7	422.3	1266.3	3178.5	1431.3	466.2	306.2	279.0	297.2
72.5°	240.7	227.0	229.6	255.3	436.9	1247.7	463.2	265.9	222.5	211.4	227.5
75°	198.8	186.7	186.2	200.3	254.8	405.1	261.8	203.3	180.1	172.0	185.2
77.5°	157.9	150.9	152.9	164.0	182.6	226.5	189.7	164.5	147.8	138.2	147.3
80°	115.5	114.5	122.6	132.7	136.2	152.4	142.3	132.7	118.1	104.4	108.0
82.5°	75.7	76.2	91.3	99.4	97.9	97.4	101.9	101.4	88.3	69.1	69.1
85°	43.4	44.4	56.0	62.6	61.6	48.9	64.6	65.1	56.5	41.9	40.4
87.5°	14.1	17.7	24.2	25.7	24.7	13.6	24.7	27.2	24.7	17.7	15.6
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)