

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: P596850

Luminaire Tested: **MSA-SA1B-835-U-5NQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596850
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-SA1B-835-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4272 lumens
Efficiency: N/A
Efficacy: 97.1 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

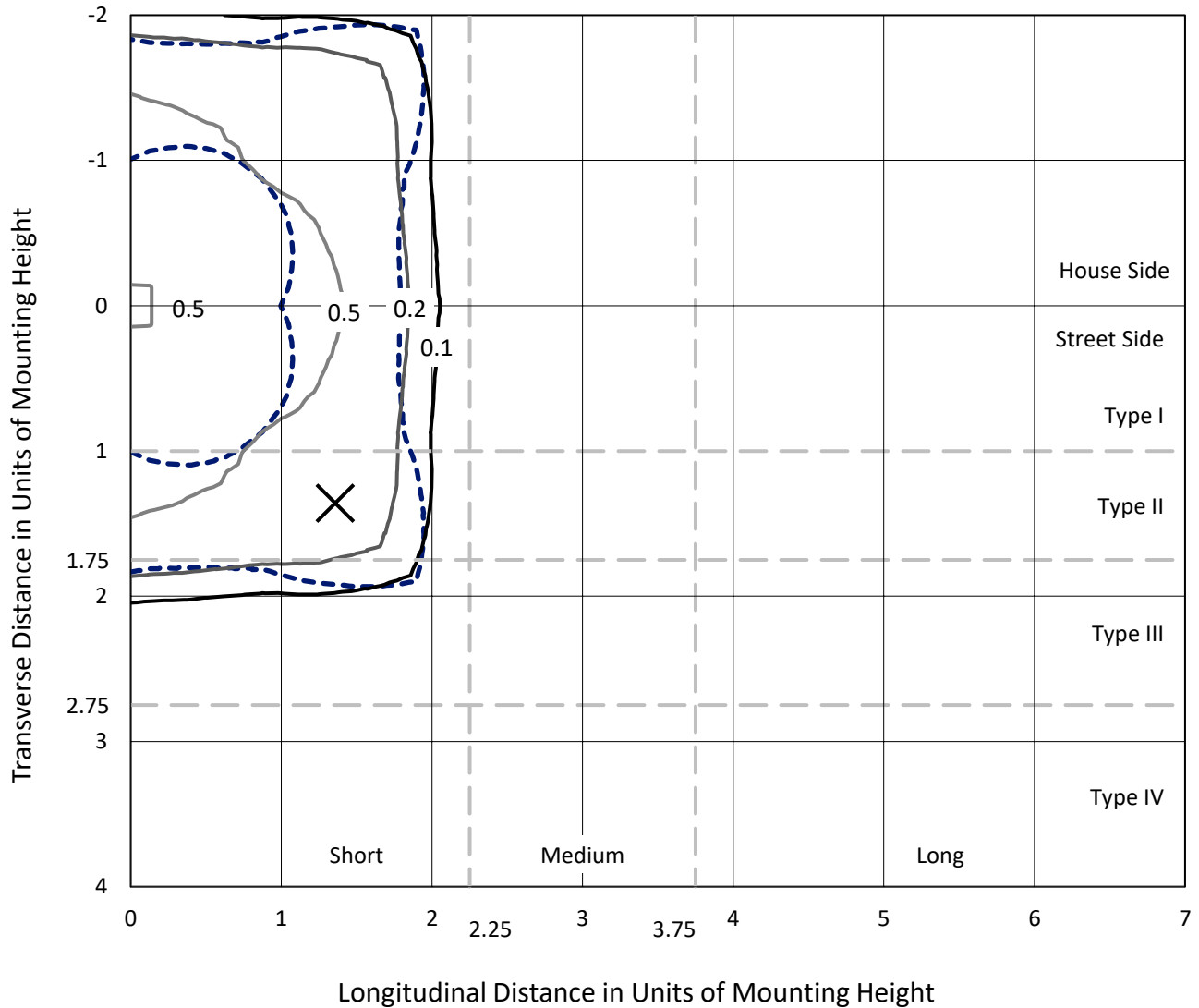
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

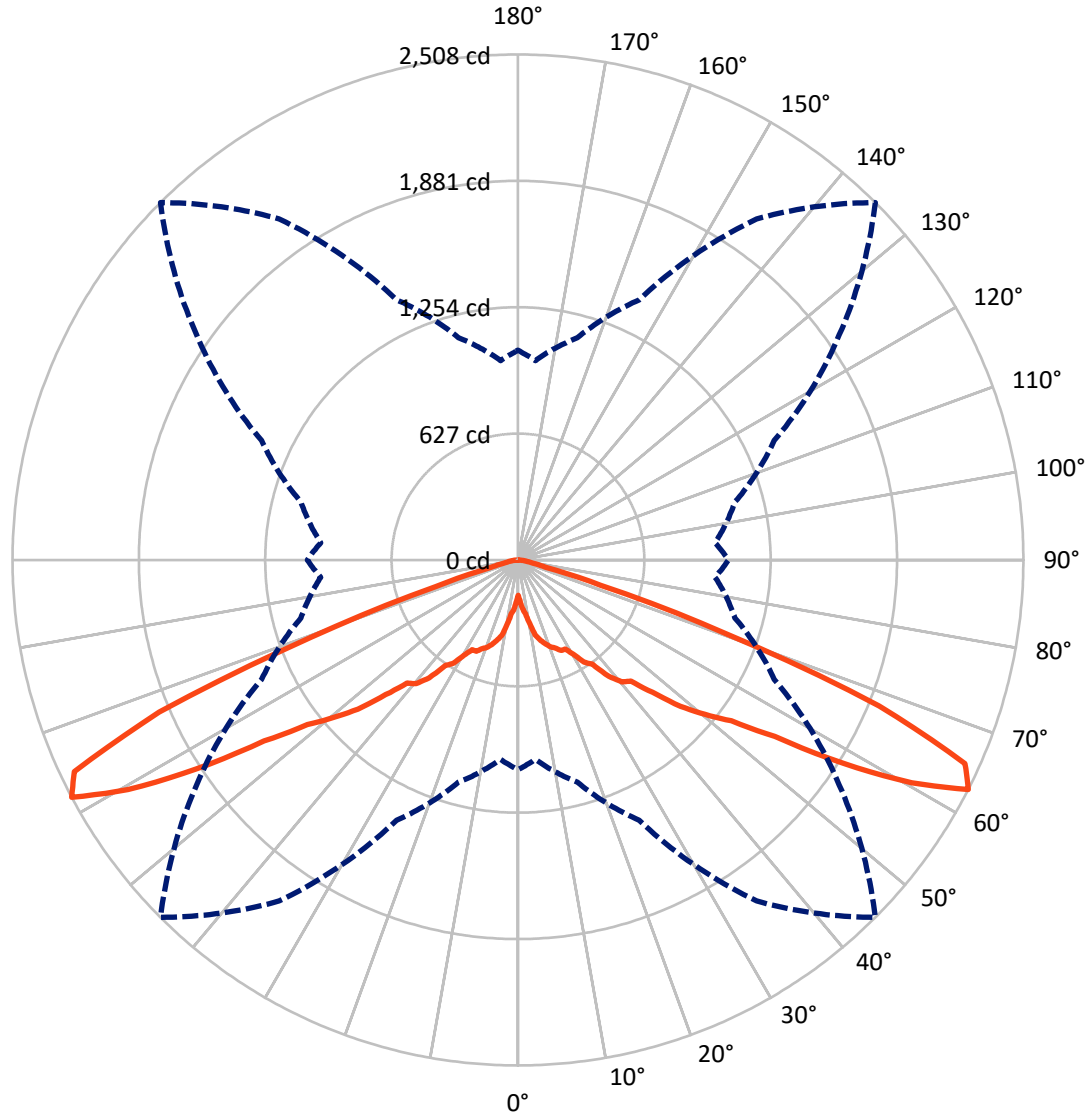
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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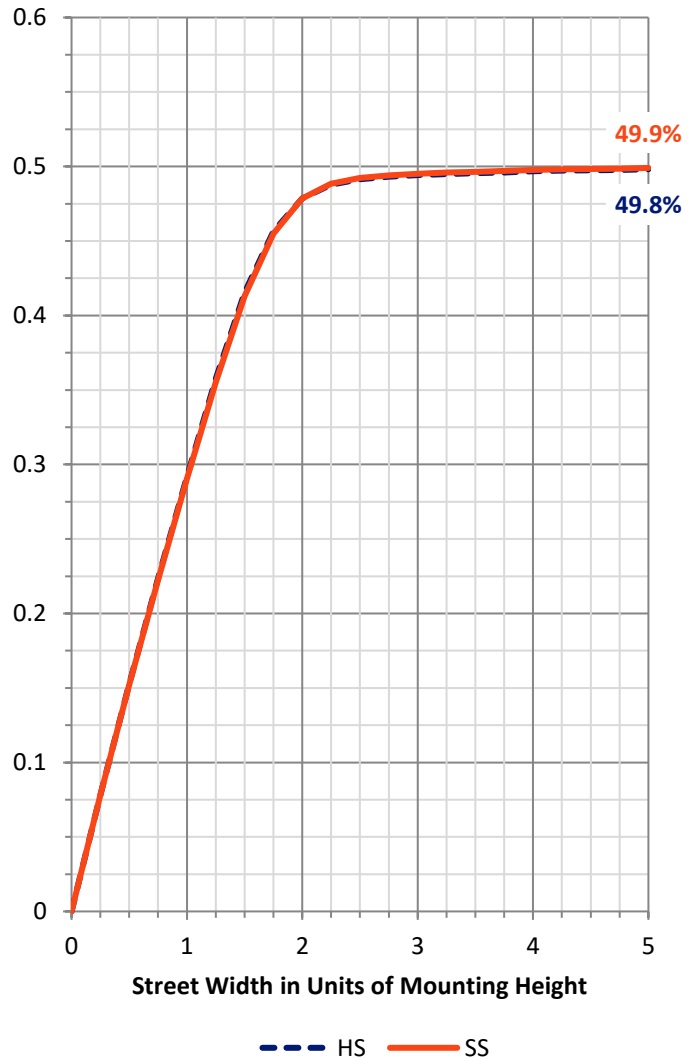
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2136.0	0.0	2136.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2136.0	0.0	2136.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4272.0	0.0	4272.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	0.6
10°-20°	116.1	2.7
20°-30°	243.3	5.7
30°-40°	458.4	10.7
40°-50°	831.9	19.5
50°-60°	1405.7	32.9
60°-70°	1050.9	24.6
70°-80°	117.6	2.8
80°-90°	21.9	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°	4272.0	100.0
0°-180°	4272.0	100.0

Coefficient of Utilization

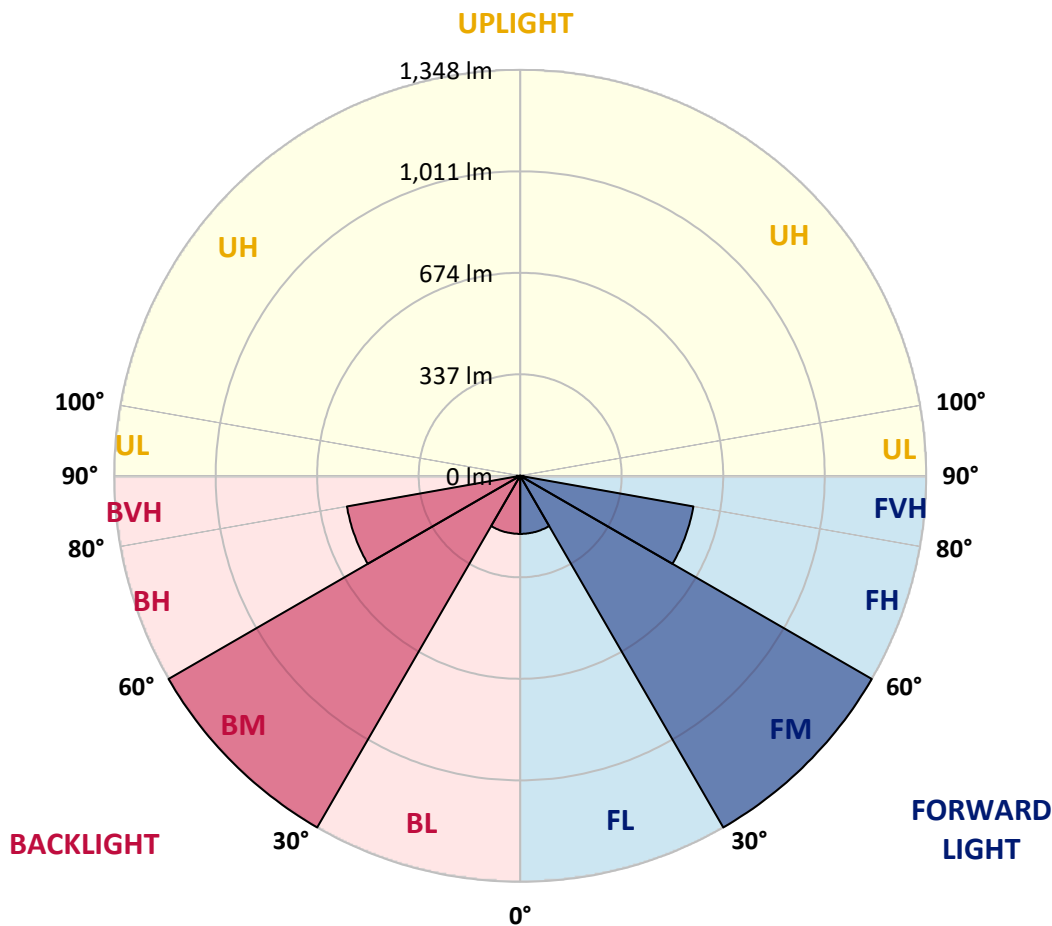


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.8	4.5			
FM (30°-60°)	1348.0	31.6			
FH (60°-80°)	584.2	13.7			G0/660
FVH (80°-90°)	10.9	0.3			G1/100
BL (0°-30°)	192.8	4.5	B1/500		
BM (30°-60°)	1348.0	31.6	B2/2500		
BH (60°-80°)	584.2	13.7	B2/1000		G0/660
BVH (80°-90°)	10.9	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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7	174.7
2.5°	212.4	208.6	195.2	199.9	204.7	204.0	202.8	199.2	195.9	209.6	212.4
5°	270.8	262.1	257.4	253.6	252.7	243.3	256.2	254.8	259.1	266.4	273.6
7.5°	317.4	309.2	296.9	294.2	280.2	269.7	280.9	294.6	298.9	312.3	320.3
10°	334.4	327.3	329.5	317.9	317.2	320.1	317.7	320.8	332.3	330.7	336.7
12.5°	372.6	373.8	366.5	363.6	369.5	382.4	371.4	367.6	364.8	376.6	380.3
15°	408.4	415.6	403.6	401.7	399.2	411.2	399.4	405.1	410.2	412.6	411.2
17.5°	459.2	459.5	446.1	424.8	432.8	436.6	431.4	421.5	445.3	457.3	458.0
20°	492.6	493.8	467.4	434.0	456.6	460.1	457.4	436.8	468.4	488.4	487.5
22.5°	528.5	524.4	488.6	464.2	472.2	474.3	468.7	466.1	488.4	524.7	519.3
25°	552.7	560.3	524.7	509.1	502.3	497.4	504.5	505.9	528.7	561.7	543.5
27.5°	610.4	597.2	541.4	547.3	532.9	500.0	531.3	548.5	543.7	600.0	613.7
30°	661.7	662.0	583.8	595.1	568.3	541.7	575.6	600.5	594.4	666.5	653.5
32.5°	727.2	729.6	657.0	626.7	608.7	603.6	599.4	626.9	664.8	723.2	724.4
35°	797.9	818.8	720.1	688.3	657.5	635.2	659.2	697.3	722.0	815.3	798.8
37.5°	935.7	900.6	819.8	760.0	740.4	731.5	744.2	766.3	819.6	900.1	928.4
40°	1017.3	1007.5	897.5	847.5	771.7	795.3	788.4	848.8	893.0	1013.1	1015.7
42.5°	1141.9	1092.9	994.0	930.4	862.2	821.2	864.7	945.8	999.2	1100.7	1148.7
45°	1240.4	1177.5	1101.2	1052.9	966.9	936.4	952.1	1056.0	1122.9	1192.6	1255.7
47.5°	1349.4	1281.3	1205.0	1119.1	1035.2	1084.7	1057.1	1148.5	1213.8	1313.8	1372.9
50°	1486.4	1410.9	1313.2	1242.3	1186.7	1204.1	1199.8	1264.9	1345.6	1436.6	1503.7
52.5°	1637.2	1551.9	1457.7	1391.8	1368.3	1325.2	1381.5	1408.3	1467.8	1551.2	1629.9
55°	1742.7	1657.4	1600.4	1621.6	1615.3	1546.1	1595.5	1598.3	1569.6	1599.7	1678.9
57.5°	1726.4	1644.9	1637.0	1717.2	1836.9	1903.8	1827.5	1663.5	1556.0	1542.0	1625.9
60°	1509.5	1439.8	1511.4	1692.1	2041.0	2244.6	1950.9	1614.3	1437.3	1364.2	1445.2
62.5°	1040.2	993.1	1141.5	1424.1	2065.5	2507.6	1946.4	1402.8	1114.8	982.0	1044.9
65°	493.1	476.0	601.4	902.9	1720.5	2437.4	1700.5	949.1	641.7	512.5	526.8
67.5°	185.4	176.9	220.7	398.9	1083.7	1933.2	1143.1	468.2	248.2	192.9	199.5
70°	105.3	99.2	105.0	145.5	436.2	1095.0	493.1	160.6	105.5	96.1	102.4
72.5°	82.9	78.2	79.1	87.9	150.5	429.8	159.5	91.6	76.6	72.8	78.4
75°	68.5	64.3	64.1	69.0	87.8	139.6	90.2	70.0	62.0	59.3	63.8
77.5°	54.4	52.0	52.7	56.5	62.9	78.0	65.3	56.7	50.9	47.6	50.8
80°	39.8	39.5	42.2	45.7	46.9	52.5	49.0	45.7	40.7	36.0	37.2
82.5°	26.1	26.2	31.5	34.2	33.7	33.5	35.1	34.9	30.4	23.8	23.8
85°	14.9	15.3	19.3	21.6	21.2	16.9	22.2	22.4	19.5	14.4	13.9
87.5°	4.9	6.1	8.3	8.9	8.5	4.7	8.5	9.4	8.5	6.1	5.4
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)