

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: P597115

Luminaire Tested: **MSA-SA4B-835-U-5WQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597115
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-SA4B-835-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17182 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

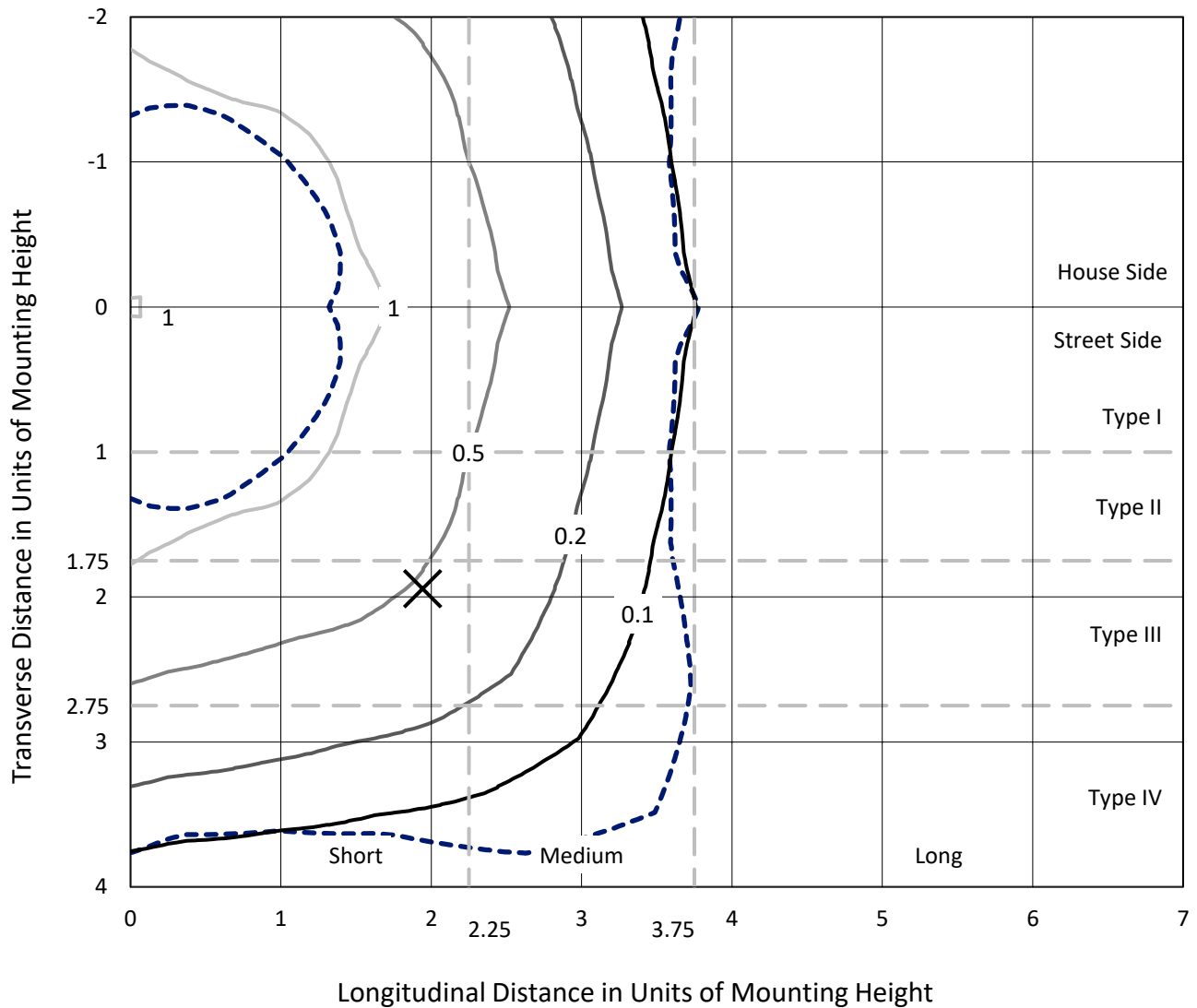
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

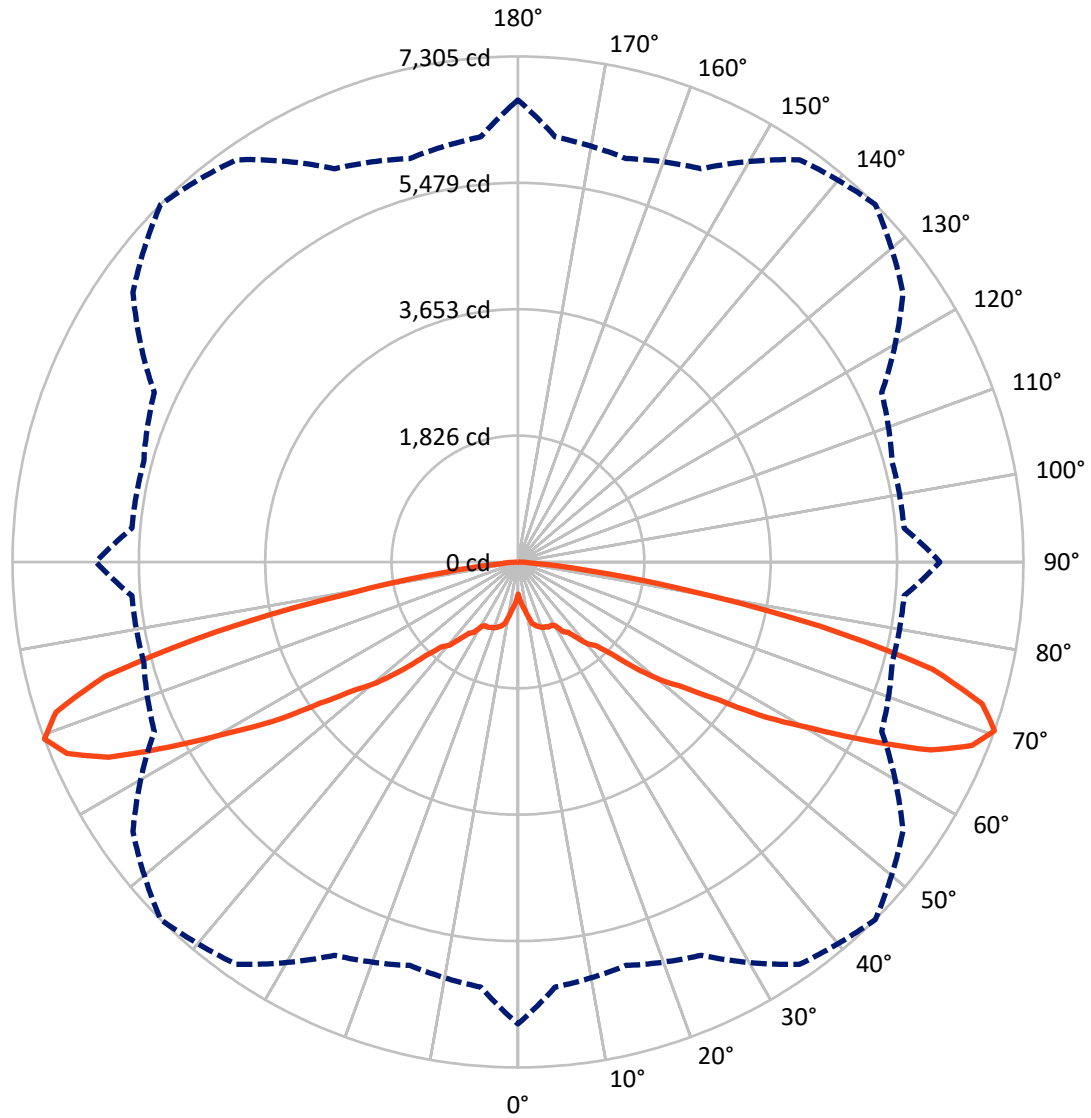
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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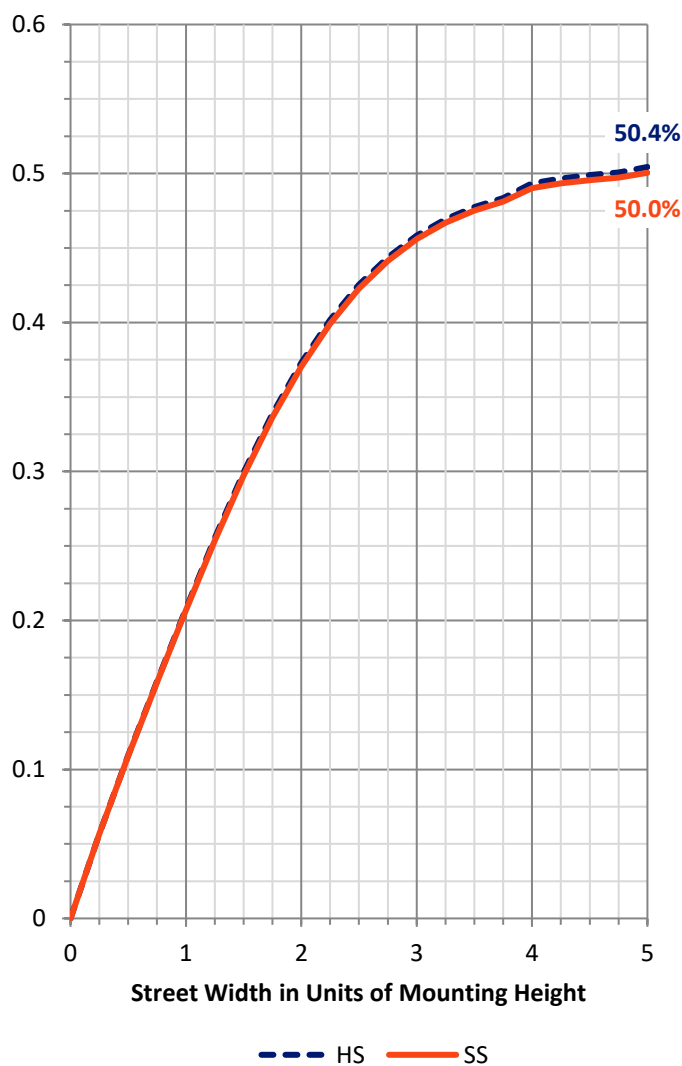
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8591.0	0.0	8591.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8591.0	0.0	8591.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17182.0	0.0	17182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	0.4
10°-20°	270.5	1.6
20°-30°	511.3	3.0
30°-40°	890.7	5.2
40°-50°	1702.8	9.9
50°-60°	3301.7	19.2
60°-70°	5781.5	33.6
70°-80°	4345.1	25.3
80°-90°	310.9	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°	17182.0	100.0
0°-180°	17182.0	100.0

Coefficient of Utilization

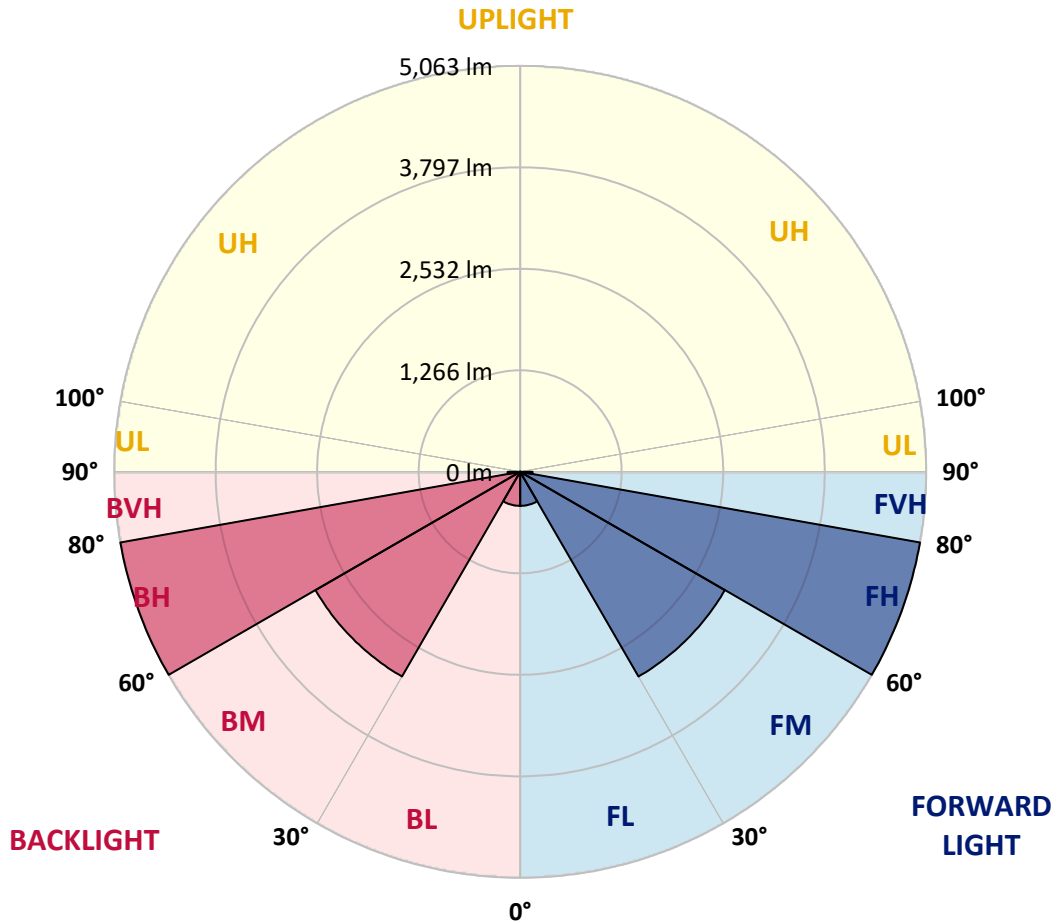


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.7	2.5			
FM (30°-60°)	2947.6	17.2			
FH (60°-80°)	5063.3	29.5			G3/7500
FVH (80°-90°)	155.4	0.9			G2/225
BL (0°-30°)	424.7	2.5	B1/500		
BM (30°-60°)	2947.6	17.2	B3/5000		
BH (60°-80°)	5063.3	29.5	B5		G3/7500
BVH (80°-90°)	155.4	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6
2.5°	565.2	556.6	529.2	530.6	543.2	544.6	545.9	529.2	525.2	559.2	561.2
5°	717.9	697.9	677.9	669.9	657.9	624.6	661.2	665.2	673.2	699.2	711.2
7.5°	819.9	795.2	767.9	751.2	718.5	691.2	721.2	745.9	761.9	791.2	807.9
10°	839.2	824.5	823.2	793.9	787.9	797.9	795.9	796.5	820.5	821.2	831.2
12.5°	899.8	910.5	889.9	879.9	885.9	910.5	890.5	881.9	887.9	915.2	903.8
15°	979.2	991.8	960.5	944.5	928.5	951.8	931.2	946.5	965.8	985.8	975.8
17.5°	1067.2	1067.8	1025.2	965.8	979.8	983.2	975.8	963.2	1018.5	1066.5	1061.8
20°	1115.1	1114.5	1041.2	960.5	1001.8	1009.2	1002.5	959.2	1042.5	1108.5	1106.5
22.5°	1164.5	1149.8	1061.8	996.5	1011.8	1017.8	1002.5	998.5	1061.8	1153.8	1153.1
25°	1191.1	1203.8	1107.1	1066.5	1053.8	1039.8	1053.2	1059.8	1120.5	1210.5	1184.5
27.5°	1274.5	1253.8	1120.5	1116.5	1089.8	1034.5	1080.5	1113.1	1116.5	1261.8	1288.5
30°	1349.8	1357.8	1180.5	1186.5	1137.8	1067.8	1139.1	1191.1	1201.1	1359.1	1356.4
32.5°	1429.8	1433.1	1287.1	1225.1	1204.5	1201.8	1174.5	1219.8	1298.4	1425.1	1430.4
35°	1551.1	1578.4	1382.4	1299.1	1273.1	1246.5	1270.5	1311.1	1384.4	1574.4	1561.1
37.5°	1829.0	1785.7	1589.7	1417.1	1399.8	1389.1	1408.4	1437.8	1587.7	1790.4	1852.4
40°	2023.0	2002.3	1735.7	1612.4	1503.1	1560.4	1515.1	1628.4	1752.4	2003.7	2043.7
42.5°	2323.6	2231.6	1957.7	1805.0	1691.7	1651.1	1676.4	1824.4	1982.3	2262.3	2340.9
45°	2612.2	2470.3	2235.6	2101.0	1929.0	1886.4	1920.3	2094.3	2277.0	2498.2	2636.9
47.5°	2906.8	2760.2	2502.2	2307.6	2167.0	2294.3	2183.0	2348.3	2530.2	2787.5	2910.8
50°	3212.8	3050.2	2795.5	2583.6	2571.6	2684.2	2550.9	2635.6	2804.2	3070.8	3216.1
52.5°	3564.1	3388.8	3134.1	2990.8	3018.8	3011.5	2984.8	2969.5	3135.5	3397.4	3570.1
55°	3982.0	3792.7	3589.4	3523.4	3600.7	3517.4	3556.7	3551.4	3575.4	3762.7	3964.7
57.5°	4487.2	4273.3	4069.3	4054.7	4154.0	4232.6	4162.6	4062.0	4020.0	4202.0	4433.3
60°	5123.8	4861.2	4637.2	4591.2	4874.5	4873.8	4810.5	4585.2	4569.2	4775.2	5053.8
62.5°	5827.0	5507.1	5262.5	5189.1	5633.1	5683.0	5485.7	5081.8	5164.5	5330.4	5661.1
65°	6424.3	6039.7	5811.7	5791.7	6334.3	6554.9	6119.0	5566.4	5593.1	5731.0	6089.0
67.5°	6813.5	6350.3	6169.0	6265.6	6940.2	7078.1	6672.9	5890.3	5795.7	5853.0	6280.9
70°	6676.9	6167.6	6037.0	6271.6	7096.8	7305.4	6792.2	5799.7	5598.4	5601.1	6098.3
72.5°	5641.7	5157.1	5219.1	5649.7	6726.2	7018.8	6240.3	5238.5	4826.5	4816.5	5267.8
75°	3730.7	3406.8	3651.4	4322.6	5591.7	6190.3	5170.5	4106.0	3589.4	3421.4	3770.0
77.5°	1631.7	1590.4	1796.4	2554.9	3812.0	4461.3	3704.0	2682.2	1952.3	1623.7	1773.7
80°	437.3	427.9	537.2	969.2	1855.7	2456.9	2004.3	1069.8	558.6	406.6	431.3
82.5°	159.3	163.3	199.3	271.3	611.2	1034.5	665.9	312.6	211.3	173.3	173.3
85°	69.3	67.3	96.7	108.6	166.6	234.0	191.3	132.6	106.6	80.0	76.7
87.5°	18.7	23.3	32.7	34.0	43.3	35.3	50.7	46.7	40.0	28.0	22.7
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)