

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: P368317

Luminaire Tested: **MSA-SA4B-727-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4B-727-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: 17430 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

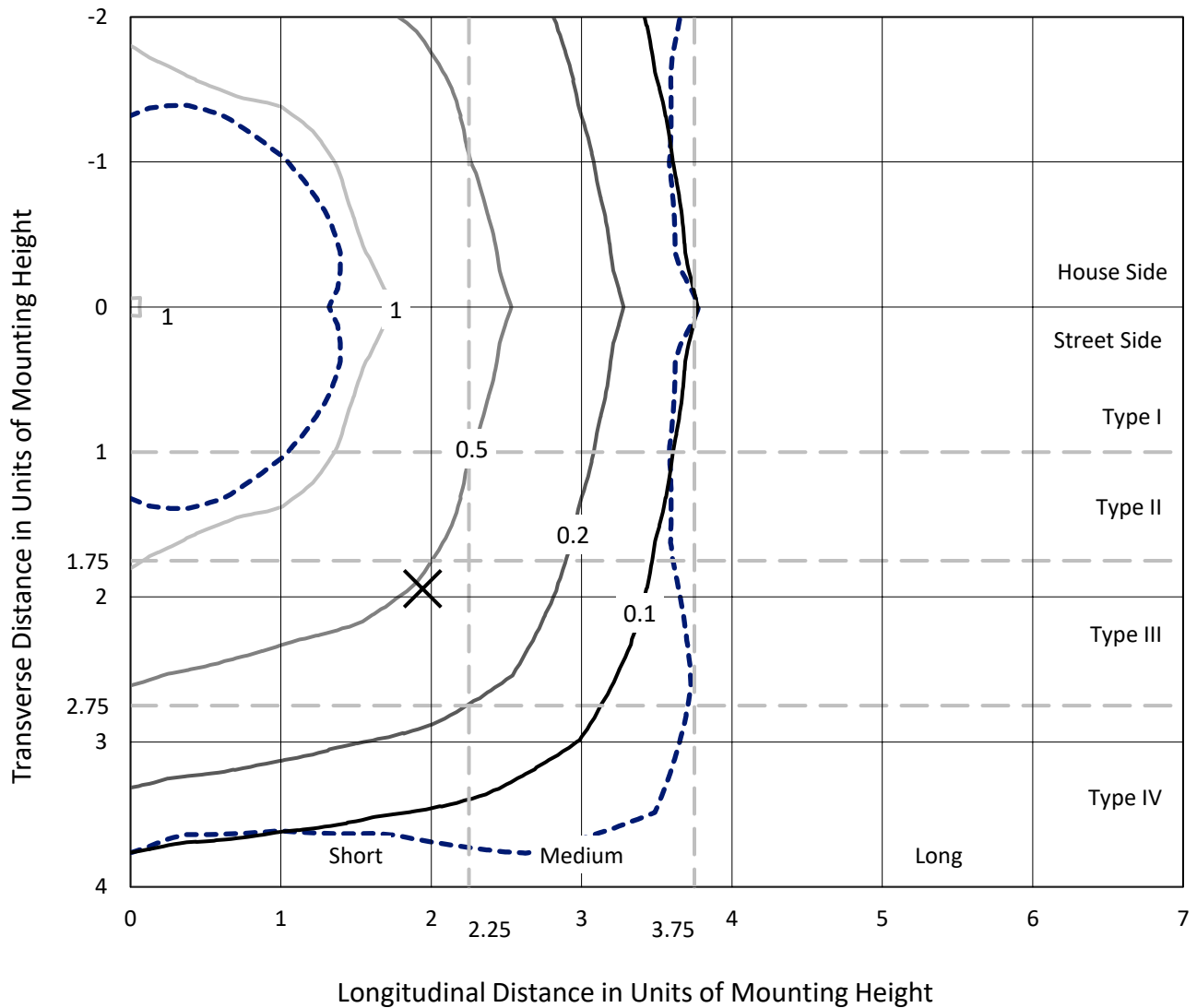
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

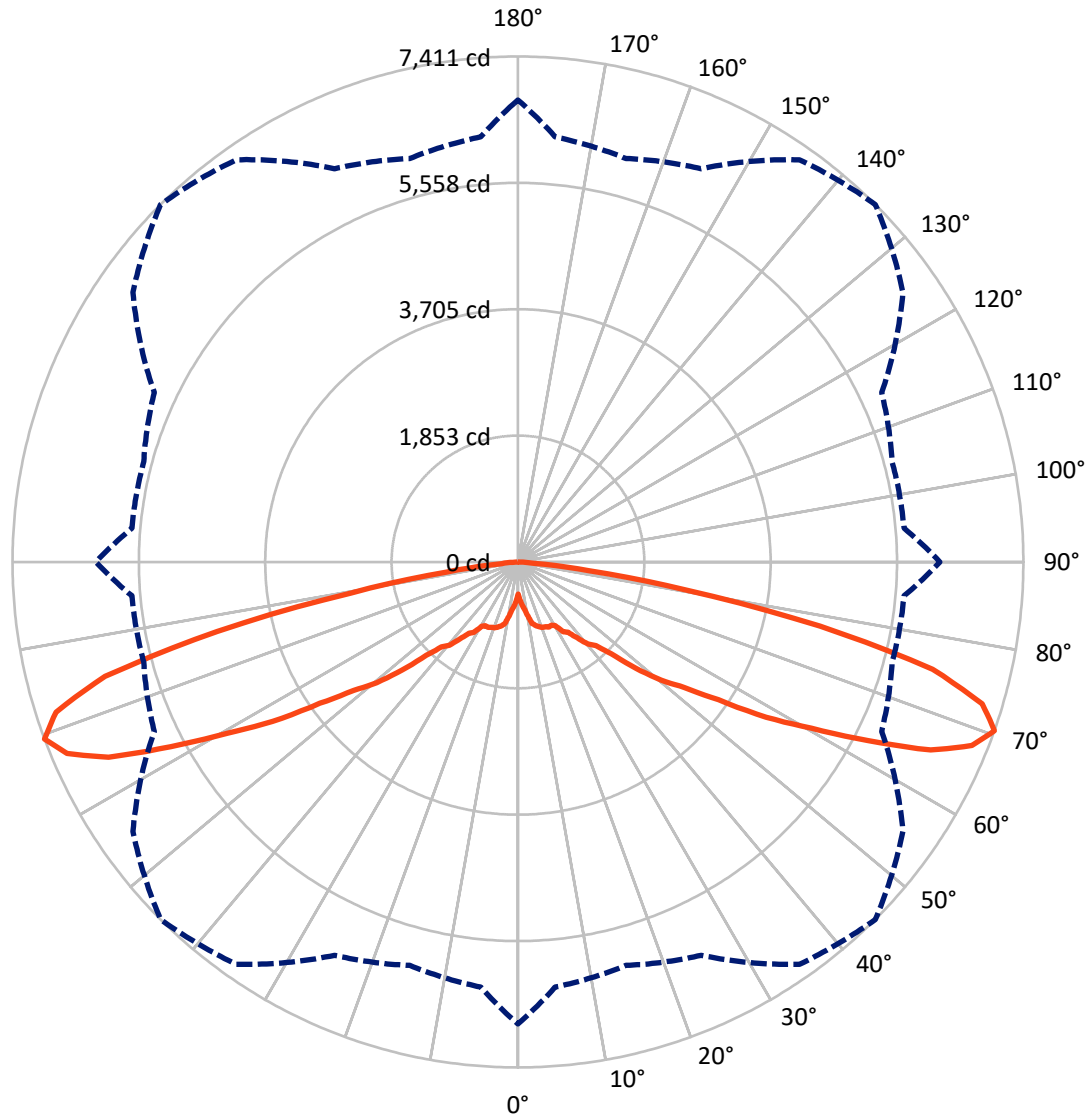
✕ Max cd
 - - - 1/2 Max cd



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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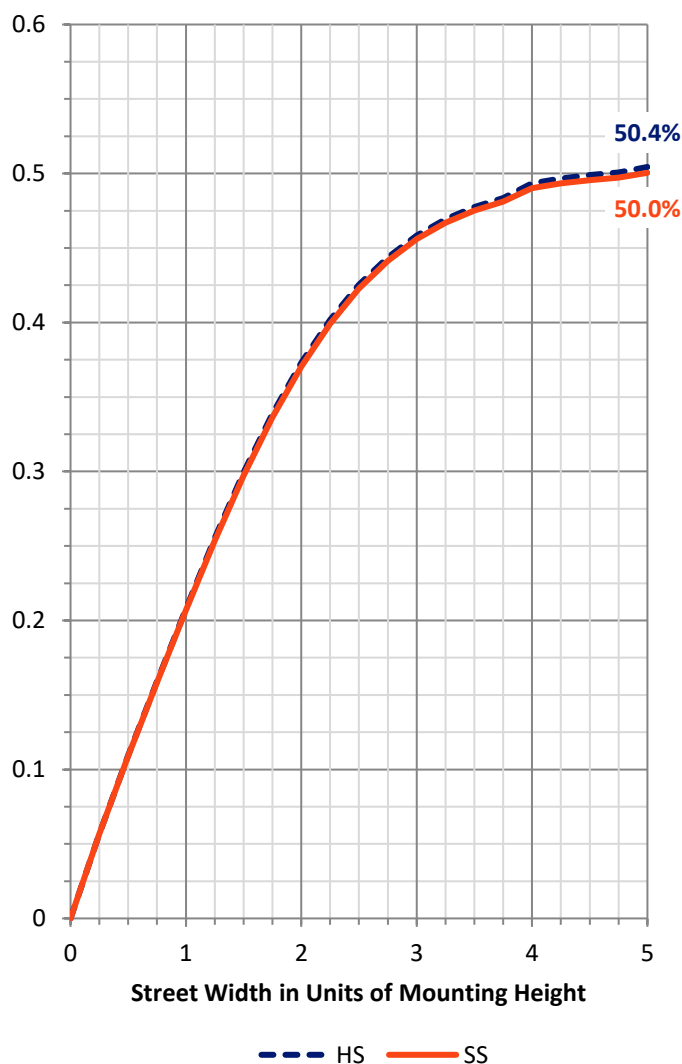
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8715.0	0.0	8715.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8715.0	0.0	8715.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17430.0	0.0	17430.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	0.4
10°-20°	274.4	1.6
20°-30°	518.7	3.0
30°-40°	903.5	5.2
40°-50°	1727.3	9.9
50°-60°	3349.4	19.2
60°-70°	5864.9	33.6
70°-80°	4407.8	25.3
80°-90°	315.4	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°	17430.0	100.0
0°-180°	17430.0	100.0

Coefficient of Utilization



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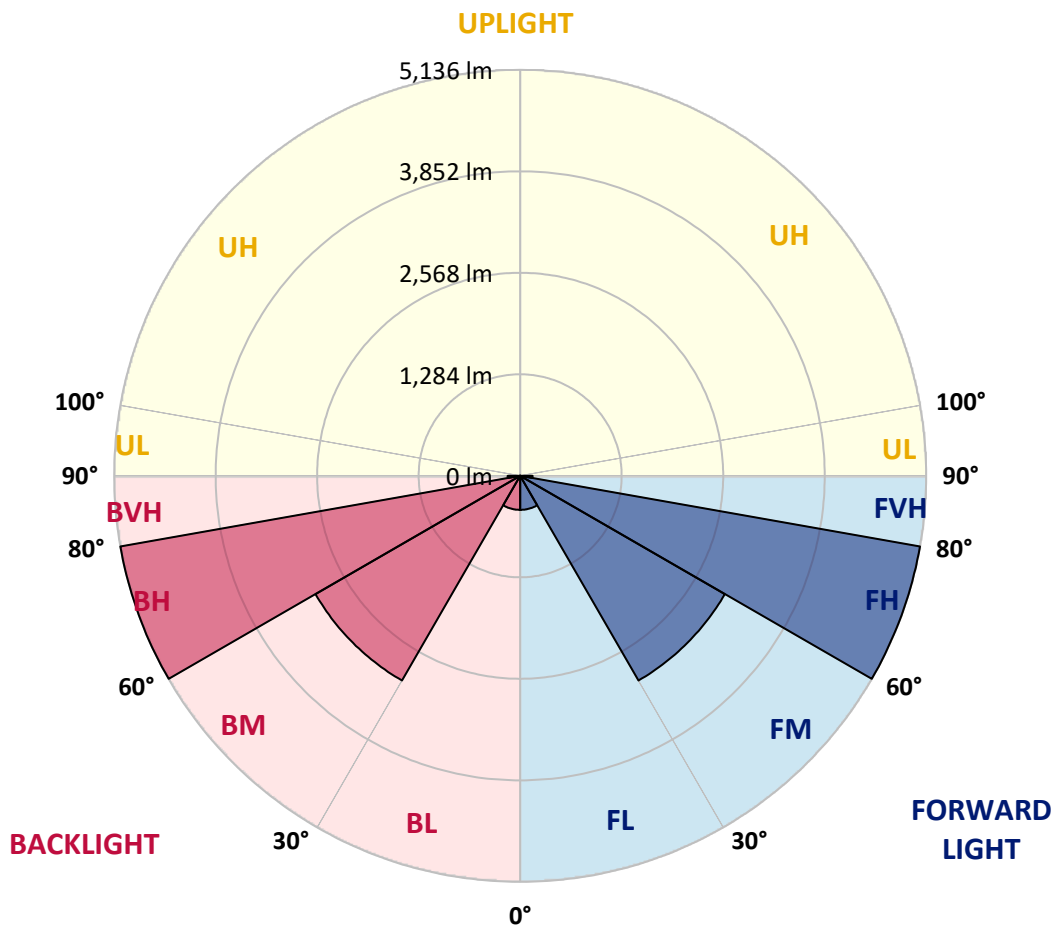
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	430.8	2.5			
FM (30°-60°)	2990.1	17.2			
FH (60°-80°)	5136.4	29.5			G3/7500
FVH (80°-90°)	157.7	0.9			G2/225
BL (0°-30°)	430.8	2.5	B1/500		
BM (30°-60°)	2990.1	17.2	B3/5000		
BH (60°-80°)	5136.4	29.5	B5		G3/7500
BVH (80°-90°)	157.7	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°	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3
2.5°	573.4	564.6	536.9	538.2	551.1	552.4	553.8	536.9	532.8	567.3	569.3
5°	728.2	708.0	687.7	679.6	667.4	633.6	670.8	674.8	682.9	709.3	721.5
7.5°	831.7	806.7	779.0	762.1	728.9	701.2	731.6	756.6	772.9	802.6	819.5
10°	851.3	836.4	835.1	805.3	799.2	809.4	807.4	808.0	832.4	833.0	843.2
12.5°	912.8	923.7	902.7	892.6	898.6	923.7	903.4	894.6	900.7	928.4	916.9
15°	993.3	1006.1	974.4	958.1	941.9	965.6	944.6	960.2	979.8	1000.1	989.9
17.5°	1082.6	1083.2	1040.0	979.8	994.0	997.4	989.9	977.1	1033.2	1081.9	1077.1
20°	1131.2	1130.6	1056.2	974.4	1016.3	1023.7	1017.0	973.0	1057.5	1124.5	1122.5
22.5°	1181.3	1166.4	1077.1	1010.9	1026.4	1032.5	1017.0	1012.9	1077.1	1170.5	1169.8
25°	1208.3	1221.2	1123.1	1081.9	1069.0	1054.8	1068.4	1075.1	1136.7	1227.9	1201.6
27.5°	1292.8	1271.9	1136.7	1132.6	1105.5	1049.4	1096.1	1129.2	1132.6	1280.0	1307.0
30°	1369.3	1377.4	1197.5	1203.6	1154.2	1083.2	1155.6	1208.3	1218.5	1378.7	1376.0
32.5°	1450.4	1453.8	1305.7	1242.8	1221.8	1219.1	1191.4	1237.4	1317.2	1445.7	1451.1
35°	1573.5	1601.2	1402.4	1317.9	1291.5	1264.4	1288.8	1330.0	1404.4	1597.1	1583.6
37.5°	1855.4	1811.5	1612.7	1437.5	1420.0	1409.2	1428.8	1458.5	1610.7	1816.2	1879.1
40°	2052.2	2031.2	1760.8	1635.7	1524.8	1582.9	1536.9	1651.9	1777.7	2032.6	2073.2
42.5°	2357.1	2263.8	1985.9	1831.1	1716.1	1674.9	1700.6	1850.7	2010.9	2294.9	2374.7
45°	2649.9	2505.9	2267.9	2131.3	1956.9	1913.6	1948.1	2124.5	2309.8	2534.3	2675.0
47.5°	2948.8	2800.0	2538.4	2340.9	2198.2	2327.4	2214.5	2382.2	2566.8	2827.8	2952.9
50°	3259.2	3094.2	2835.9	2620.9	2608.7	2723.0	2587.7	2673.6	2844.7	3115.1	3262.5
52.5°	3615.5	3437.7	3179.4	3034.0	3062.4	3055.0	3027.9	3012.4	3180.7	3446.5	3621.6
55°	4039.5	3847.4	3641.2	3574.3	3652.7	3568.2	3608.1	3602.7	3627.0	3817.0	4021.9
57.5°	4552.0	4335.0	4128.1	4113.2	4213.9	4293.7	4222.7	4120.6	4078.0	4262.6	4497.2
60°	5197.8	4931.4	4704.2	4657.5	4944.9	4944.2	4880.0	4651.4	4635.2	4844.1	5126.8
62.5°	5911.1	5586.6	5338.4	5264.0	5714.4	5765.1	5564.9	5155.2	5239.0	5407.4	5742.8
65°	6517.0	6126.8	5895.6	5875.3	6425.7	6649.5	6207.3	5646.7	5673.8	5813.8	6176.9
67.5°	6911.9	6441.9	6258.0	6356.1	7040.3	7180.3	6769.2	5975.4	5879.3	5937.5	6371.6
70°	6773.3	6256.7	6124.1	6362.1	7199.2	7410.9	6890.2	5883.4	5679.2	5681.9	6186.3
72.5°	5723.2	5231.6	5294.5	5731.3	6823.3	7120.1	6330.4	5314.1	4896.2	4886.0	5343.8
75°	3784.6	3455.9	3704.1	4385.0	5672.4	6279.6	5245.1	4165.2	3641.2	3470.8	3824.5
77.5°	1655.3	1613.4	1822.3	2591.8	3867.0	4525.6	3757.5	2720.9	1980.5	1647.2	1799.3
80°	443.6	434.1	545.0	983.2	1882.5	2492.4	2033.3	1085.3	566.6	412.5	437.5
82.5°	161.6	165.7	202.2	275.2	620.1	1049.4	675.5	317.1	214.3	175.8	175.8
85°	70.3	68.3	98.0	110.2	169.0	237.3	194.1	134.6	108.2	81.1	77.8
87.5°	18.9	23.7	33.1	34.5	44.0	35.8	51.4	47.3	40.6	28.4	23.0
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)