

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: P367151

Luminaire Tested: **MSA-SA2A-730-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367151
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-SA2A-730-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: 7765 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

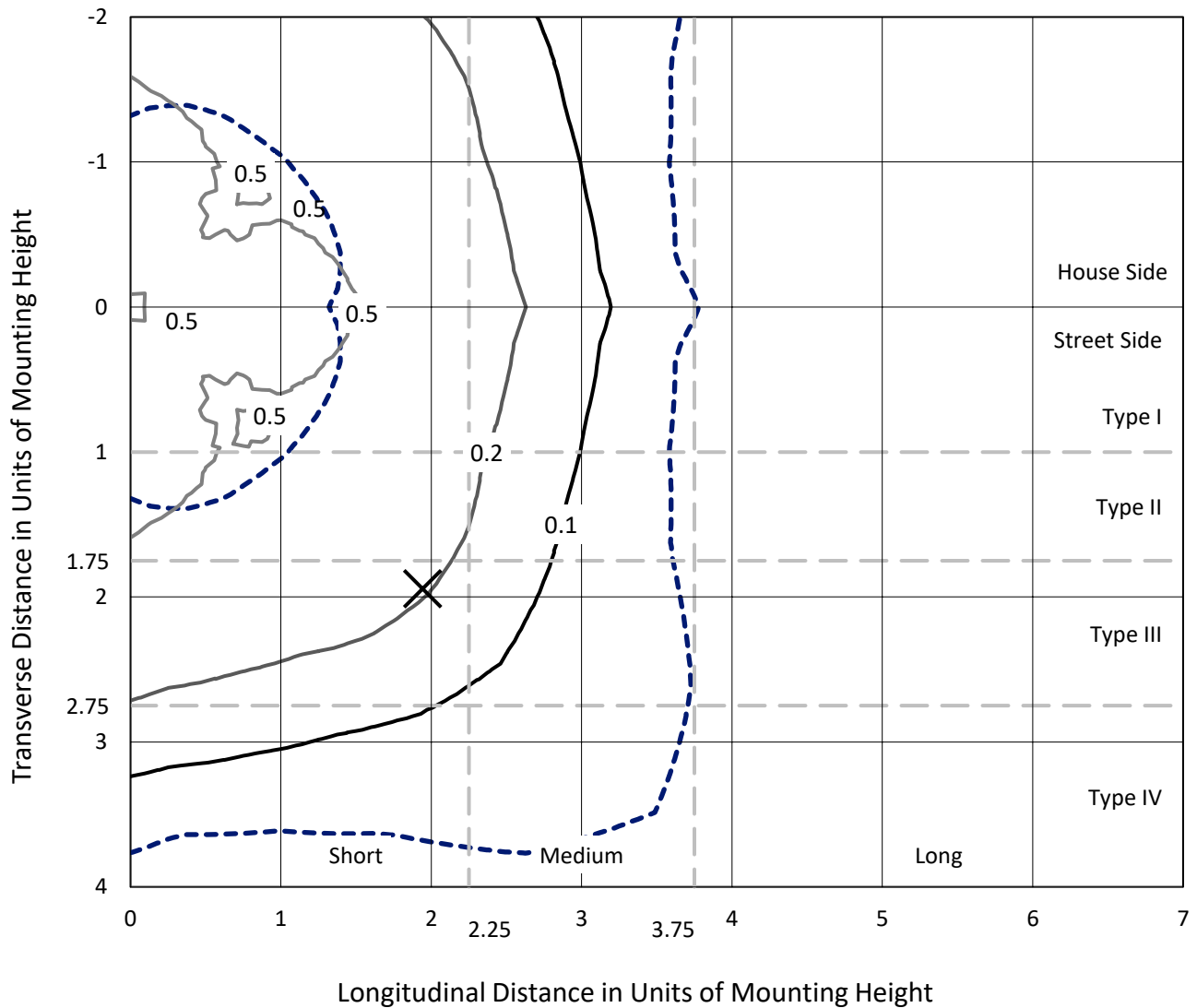
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

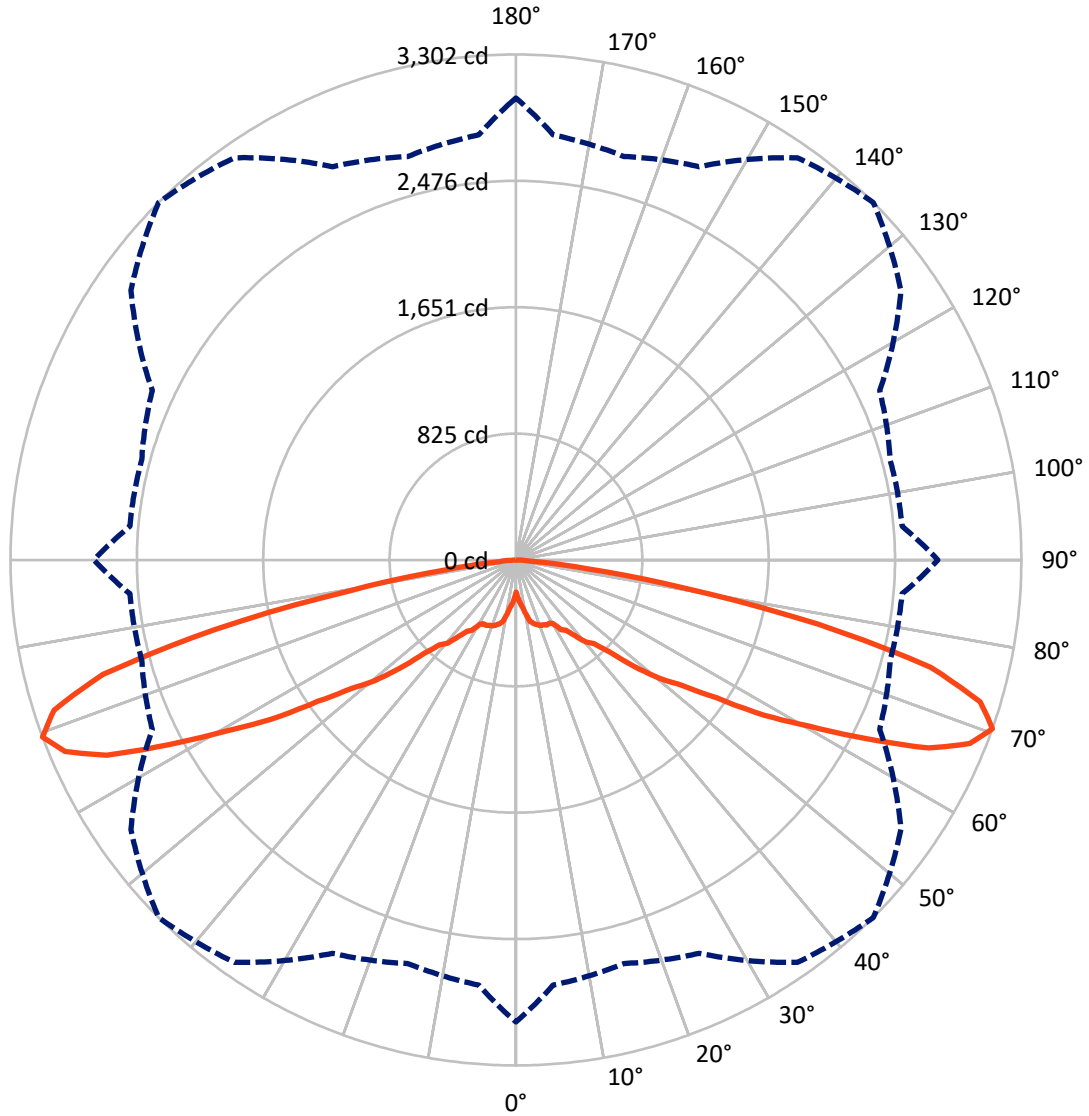
✕ Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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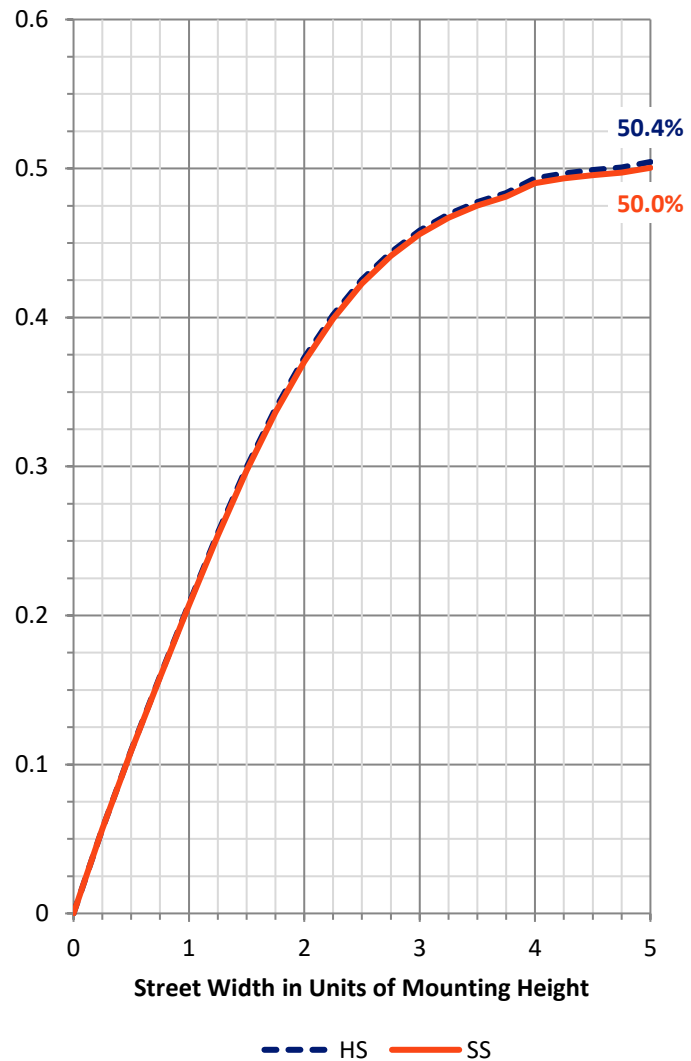
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3882.5	0.0	3882.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3882.5	0.0	3882.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7765.0	0.0	7765.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	0.4
10°-20°	122.2	1.6
20°-30°	231.1	3.0
30°-40°	402.5	5.2
40°-50°	769.5	9.9
50°-60°	1492.1	19.2
60°-70°	2612.8	33.6
70°-80°	1963.7	25.3
80°-90°	140.5	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°	7765.0	100.0
0°-180°	7765.0	100.0

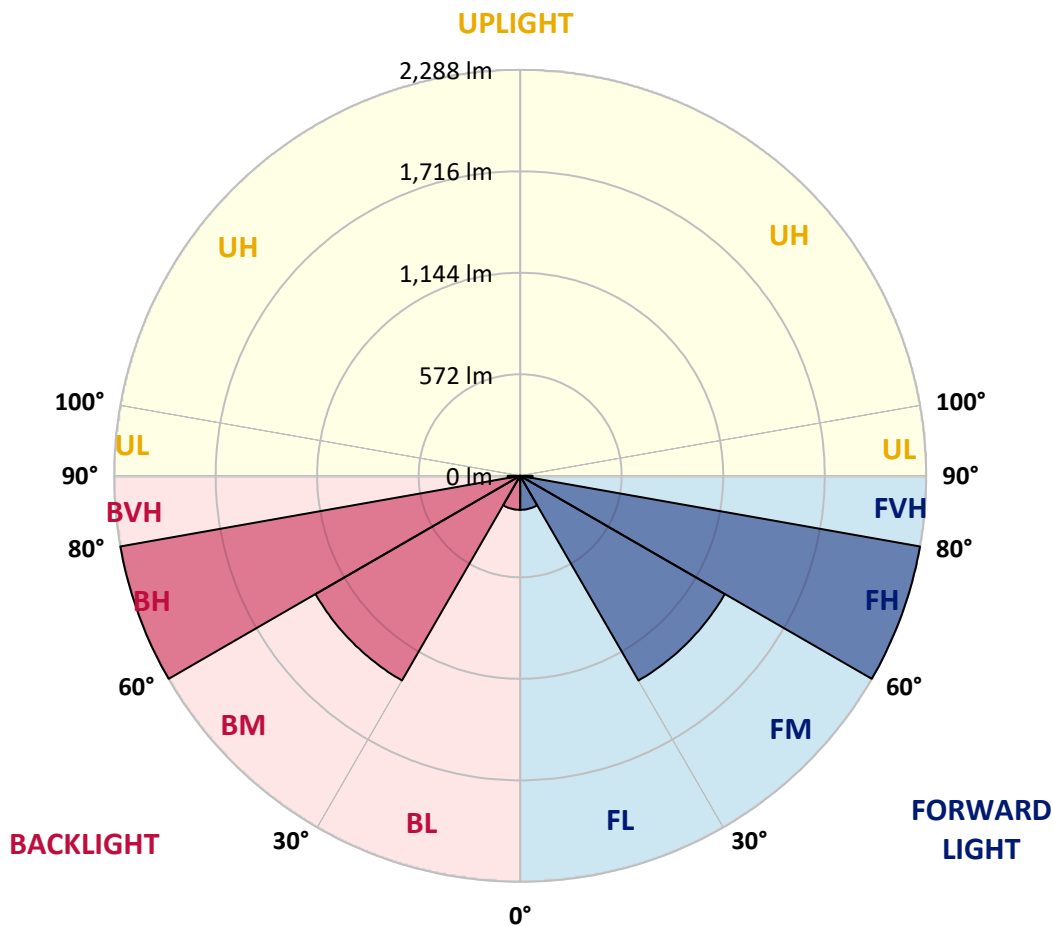


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.9	2.5			
FM (30°-60°)	1332.1	17.2			
FH (60°-80°)	2288.2	29.5			G2/5000
FVH (80°-90°)	70.3	0.9			G1/100
BL (0°-30°)	191.9	2.5	B1/500		
BM (30°-60°)	1332.1	17.2	B2/2500		
BH (60°-80°)	2288.2	29.5	B3/2500		G2/5000
BVH (80°-90°)	70.3	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
2.5°	255.4	251.5	239.2	239.8	245.5	246.1	246.7	239.2	237.4	252.7	253.6
5°	324.4	315.4	306.4	302.7	297.3	282.3	298.8	300.6	304.2	316.0	321.4
7.5°	370.5	359.4	347.0	339.5	324.7	312.4	325.9	337.1	344.3	357.6	365.1
10°	379.3	372.6	372.0	358.8	356.1	360.6	359.7	360.0	370.8	371.1	375.6
12.5°	406.7	411.5	402.1	397.6	400.3	411.5	402.4	398.5	401.2	413.6	408.5
15°	442.5	448.2	434.1	426.8	419.6	430.2	420.8	427.8	436.5	445.5	441.0
17.5°	482.3	482.6	463.3	436.5	442.8	444.3	441.0	435.3	460.3	482.0	479.9
20°	504.0	503.7	470.5	434.1	452.8	456.1	453.1	433.5	471.1	501.0	500.0
22.5°	526.3	519.6	479.9	450.3	457.3	460.0	453.1	451.2	479.9	521.4	521.1
25°	538.3	544.0	500.3	482.0	476.3	469.9	475.9	479.0	506.4	547.0	535.3
27.5°	576.0	566.6	506.4	504.6	492.5	467.5	488.3	503.1	504.6	570.2	582.3
30°	610.0	613.6	533.5	536.2	514.2	482.6	514.8	538.3	542.8	614.2	613.0
32.5°	646.1	647.7	581.7	553.7	544.3	543.1	530.8	551.3	586.8	644.0	646.4
35°	701.0	713.3	624.8	587.1	575.4	563.3	574.2	592.5	625.7	711.5	705.5
37.5°	826.6	807.0	718.4	640.4	632.6	627.8	636.5	649.8	717.5	809.1	837.1
40°	914.2	904.9	784.4	728.7	679.3	705.2	684.7	735.9	791.9	905.5	923.6
42.5°	1050.1	1008.5	884.7	815.7	764.5	746.2	757.6	824.5	895.9	1022.4	1057.9
45°	1180.5	1116.4	1010.3	949.5	871.8	852.5	867.9	946.5	1029.0	1129.0	1191.7
47.5°	1313.7	1247.4	1130.8	1042.9	979.3	1036.8	986.5	1061.2	1143.5	1259.8	1315.5
50°	1451.9	1378.4	1263.4	1167.6	1162.2	1213.1	1152.8	1191.1	1267.3	1387.8	1453.5
52.5°	1610.7	1531.5	1416.4	1351.6	1364.3	1361.0	1348.9	1342.0	1417.0	1535.4	1613.4
55°	1799.6	1714.0	1622.1	1592.3	1627.3	1589.6	1607.4	1605.0	1615.8	1700.5	1791.7
57.5°	2027.9	1931.2	1839.0	1832.4	1877.3	1912.8	1881.2	1835.7	1816.7	1899.0	2003.5
60°	2315.6	2196.9	2095.7	2074.9	2202.9	2202.6	2174.0	2072.2	2065.0	2158.0	2284.0
62.5°	2633.4	2488.8	2378.2	2345.1	2545.7	2568.3	2479.2	2296.6	2334.0	2409.0	2558.4
65°	2903.3	2729.5	2626.5	2617.4	2862.6	2962.3	2765.3	2515.6	2527.7	2590.0	2751.8
67.5°	3079.2	2869.9	2787.9	2831.6	3136.4	3198.8	3015.7	2662.0	2619.2	2645.1	2838.5
70°	3017.5	2787.3	2728.3	2834.3	3207.2	3301.5	3069.6	2621.0	2530.1	2531.3	2756.0
72.5°	2549.6	2330.6	2358.7	2553.3	3039.8	3172.0	2820.2	2367.4	2181.2	2176.7	2380.7
75°	1686.0	1539.6	1650.2	1953.5	2527.1	2797.6	2336.7	1855.6	1622.1	1546.2	1703.8
77.5°	737.4	718.7	811.8	1154.6	1722.8	2016.2	1674.0	1212.2	882.3	733.8	801.6
80°	197.6	193.4	242.8	438.0	838.6	1110.3	905.8	483.5	252.4	183.8	194.9
82.5°	72.0	73.8	90.1	122.6	276.2	467.5	300.9	141.3	95.5	78.3	78.3
85°	31.3	30.4	43.7	49.1	75.3	105.7	86.5	59.9	48.2	36.1	34.6
87.5°	8.4	10.5	14.8	15.4	19.6	16.0	22.9	21.1	18.1	12.7	10.2
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)