

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: P366733

Luminaire Tested: **MSA-SA1B-727-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366733
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-SA1B-727-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4543 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

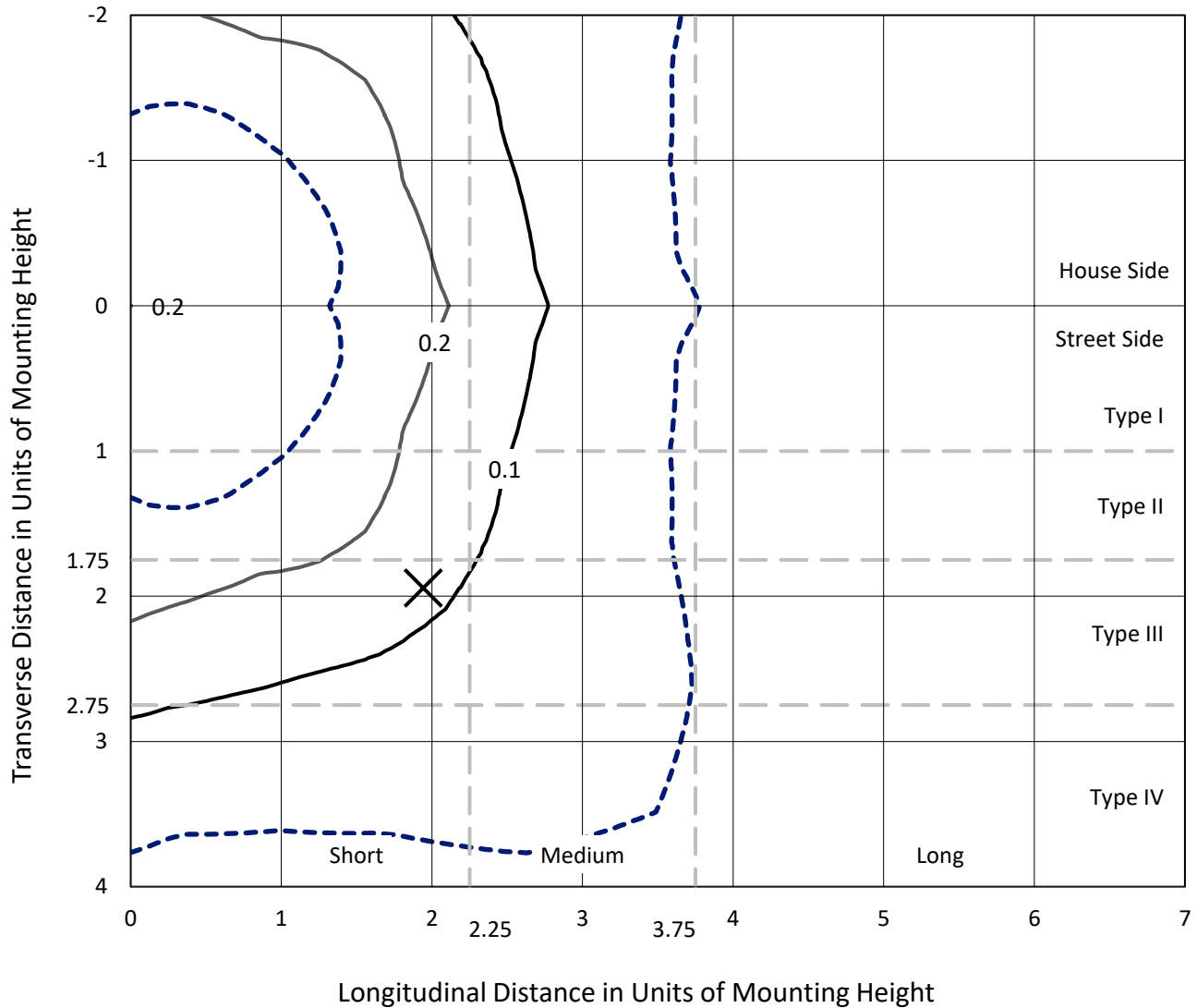
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

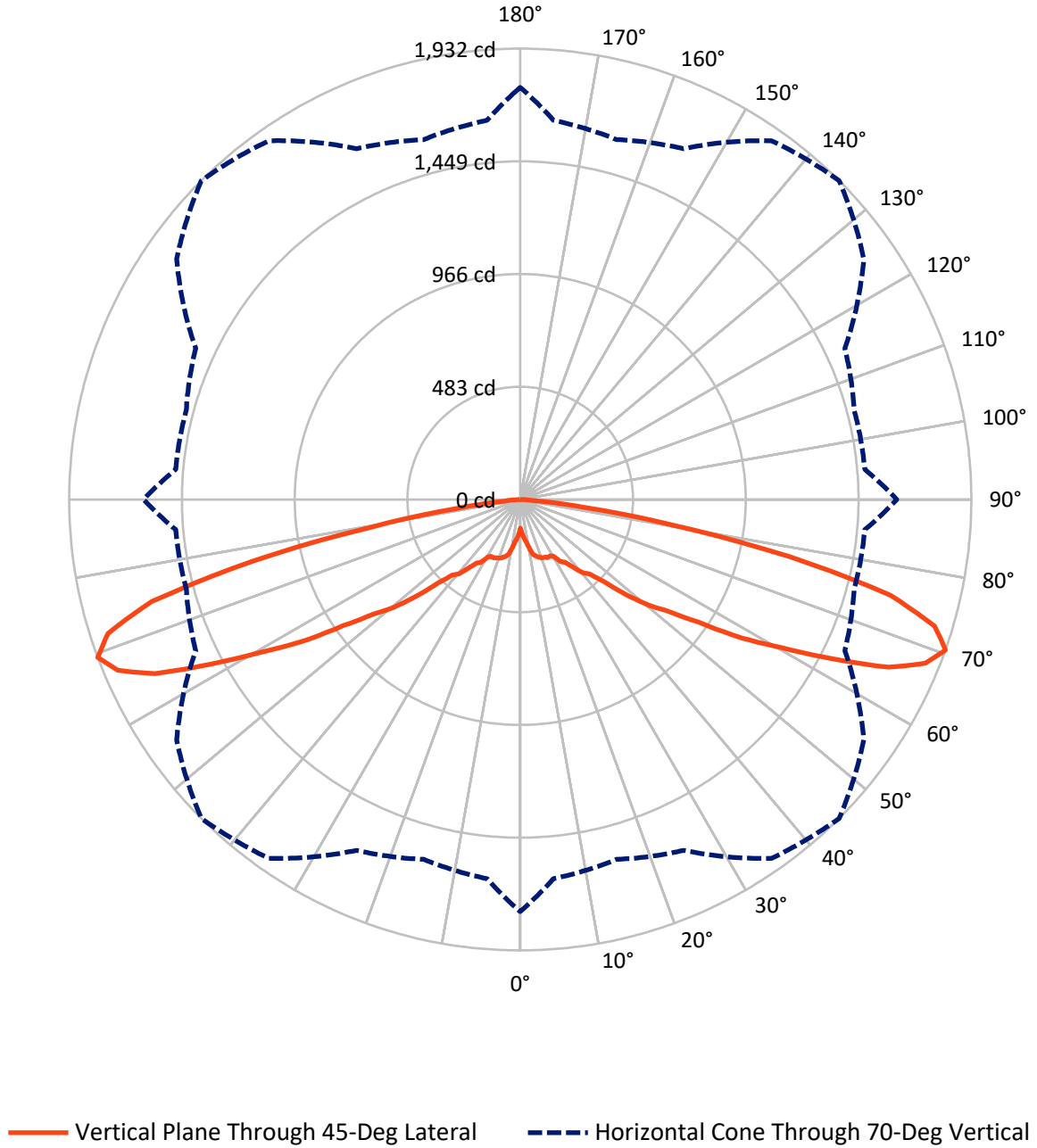
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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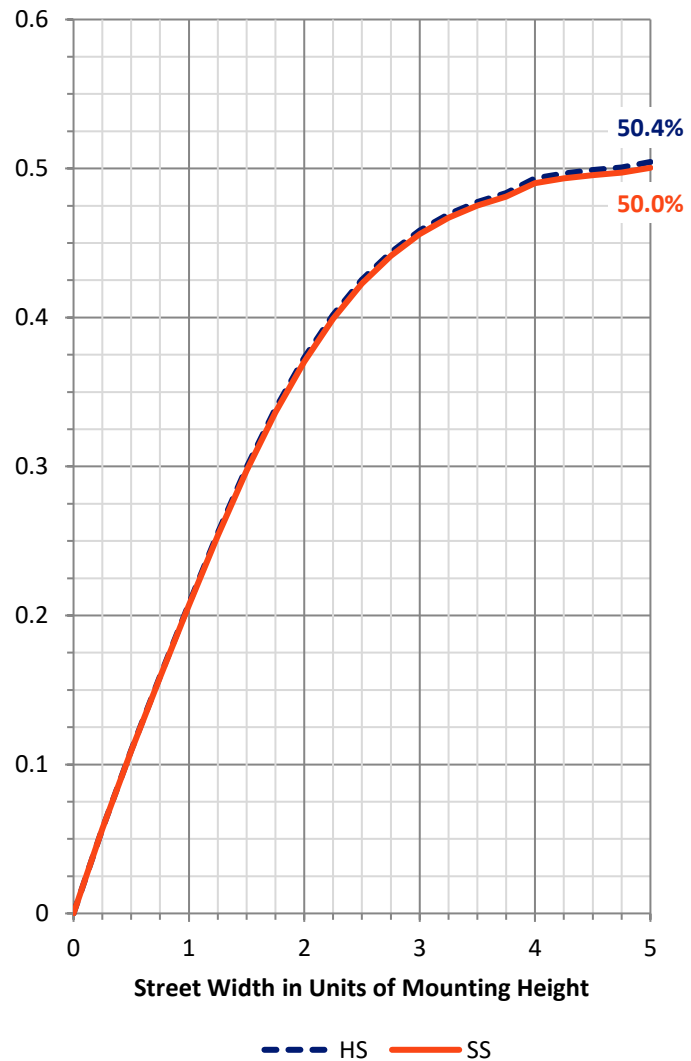
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2271.5	0.0	2271.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2271.5	0.0	2271.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4543.0	0.0	4543.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	0.4
10°-20°	71.5	1.6
20°-30°	135.2	3.0
30°-40°	235.5	5.2
40°-50°	450.2	9.9
50°-60°	873.0	19.2
60°-70°	1528.6	33.6
70°-80°	1148.9	25.3
80°-90°	82.2	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°	4543.0	100.0
0°-180°	4543.0	100.0

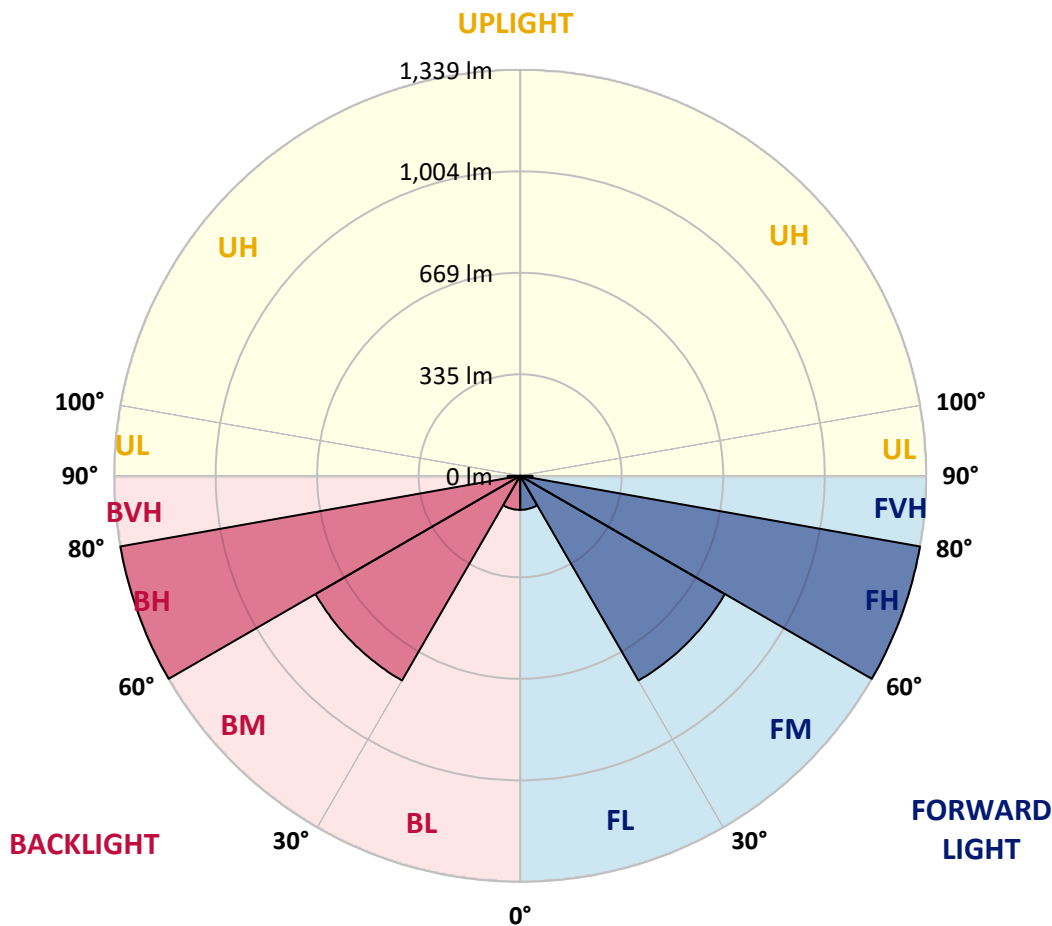


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.3	2.5			
FM (30°-60°)	779.4	17.2			
FH (60°-80°)	1338.8	29.5			G1/1800
FVH (80°-90°)	41.1	0.9			G1/100
BL (0°-30°)	112.3	2.5	B1/500		
BM (30°-60°)	779.4	17.2	B1/1000		
BH (60°-80°)	1338.8	29.5	B3/2500		G1/1800
BVH (80°-90°)	41.1	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
2.5°	149.5	147.2	139.9	140.3	143.6	144.0	144.3	139.9	138.9	147.9	148.4
5°	189.8	184.5	179.2	177.1	173.9	165.1	174.8	175.9	178.0	184.9	188.0
7.5°	216.8	210.3	203.0	198.6	190.0	182.8	190.7	197.2	201.4	209.2	213.6
10°	221.9	218.0	217.7	209.9	208.3	211.0	210.4	210.6	217.0	217.1	219.8
12.5°	237.9	240.7	235.3	232.6	234.2	240.7	235.5	233.2	234.8	242.0	239.0
15°	258.9	262.2	254.0	249.7	245.5	251.7	246.2	250.3	255.4	260.7	258.0
17.5°	282.2	282.3	271.1	255.4	259.1	260.0	258.0	254.7	269.3	282.0	280.8
20°	294.8	294.7	275.3	254.0	264.9	266.8	265.1	253.6	275.6	293.1	292.6
22.5°	307.9	304.0	280.8	263.5	267.5	269.1	265.1	264.0	280.8	305.1	304.9
25°	314.9	318.3	292.7	282.0	278.6	274.9	278.5	280.2	296.3	320.1	313.2
27.5°	337.0	331.5	296.3	295.2	288.2	273.5	285.7	294.3	295.2	333.6	340.7
30°	356.9	359.0	312.1	313.7	300.8	282.3	301.2	314.9	317.6	359.4	358.6
32.5°	378.0	378.9	340.3	323.9	318.5	317.8	310.5	322.5	343.3	376.8	378.2
35°	410.1	417.3	365.5	343.5	336.6	329.6	335.9	346.7	366.1	416.3	412.8
37.5°	483.6	472.1	420.3	374.7	370.1	367.3	372.4	380.2	419.8	473.4	489.8
40°	534.9	529.4	458.9	426.3	397.4	412.6	400.6	430.6	463.3	529.8	540.4
42.5°	614.4	590.1	517.6	477.3	447.3	436.5	443.2	482.4	524.1	598.2	619.0
45°	690.7	653.1	591.1	555.5	510.0	498.8	507.7	553.7	602.0	660.5	697.2
47.5°	768.6	729.8	661.6	610.1	573.0	606.6	577.2	620.9	669.0	737.0	769.6
50°	849.5	806.5	739.2	683.1	679.9	709.7	674.5	696.9	741.4	811.9	850.4
52.5°	942.4	896.0	828.7	790.8	798.2	796.3	789.2	785.2	829.0	898.3	943.9
55°	1052.9	1002.8	949.1	931.6	952.0	930.0	940.4	939.0	945.4	994.9	1048.3
57.5°	1186.4	1129.9	1075.9	1072.1	1098.3	1119.1	1100.6	1074.0	1062.9	1111.0	1172.2
60°	1354.8	1285.3	1226.1	1213.9	1288.8	1288.7	1271.9	1212.4	1208.1	1262.6	1336.3
62.5°	1540.7	1456.1	1391.4	1372.0	1489.4	1502.6	1450.5	1343.7	1365.5	1409.4	1496.8
65°	1698.6	1596.9	1536.6	1531.4	1674.8	1733.1	1617.9	1471.8	1478.8	1515.3	1610.0
67.5°	1801.5	1679.0	1631.1	1656.7	1835.0	1871.5	1764.3	1557.4	1532.4	1547.6	1660.7
70°	1765.4	1630.8	1596.2	1658.2	1876.4	1931.6	1795.9	1533.5	1480.2	1480.9	1612.4
72.5°	1491.7	1363.6	1380.0	1493.8	1778.4	1855.8	1650.0	1385.1	1276.2	1273.5	1392.8
75°	986.4	900.8	965.4	1142.9	1478.5	1636.7	1367.1	1085.6	949.1	904.6	996.8
77.5°	431.4	420.5	475.0	675.5	1007.9	1179.6	979.4	709.2	516.2	429.3	469.0
80°	115.6	113.1	142.0	256.3	490.7	649.6	530.0	282.9	147.7	107.5	114.0
82.5°	42.1	43.2	52.7	71.7	161.6	273.5	176.1	82.7	55.9	45.8	45.8
85°	18.3	17.8	25.6	28.7	44.1	61.9	50.6	35.1	28.2	21.1	20.3
87.5°	4.9	6.2	8.6	9.0	11.5	9.3	13.4	12.3	10.6	7.4	6.0
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)