

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: P366601

Luminaire Tested: **MSA-SA1A-727-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366601
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-SA1A-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: 3625 lumens
Efficiency: N/A
Efficacy: 106.6 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

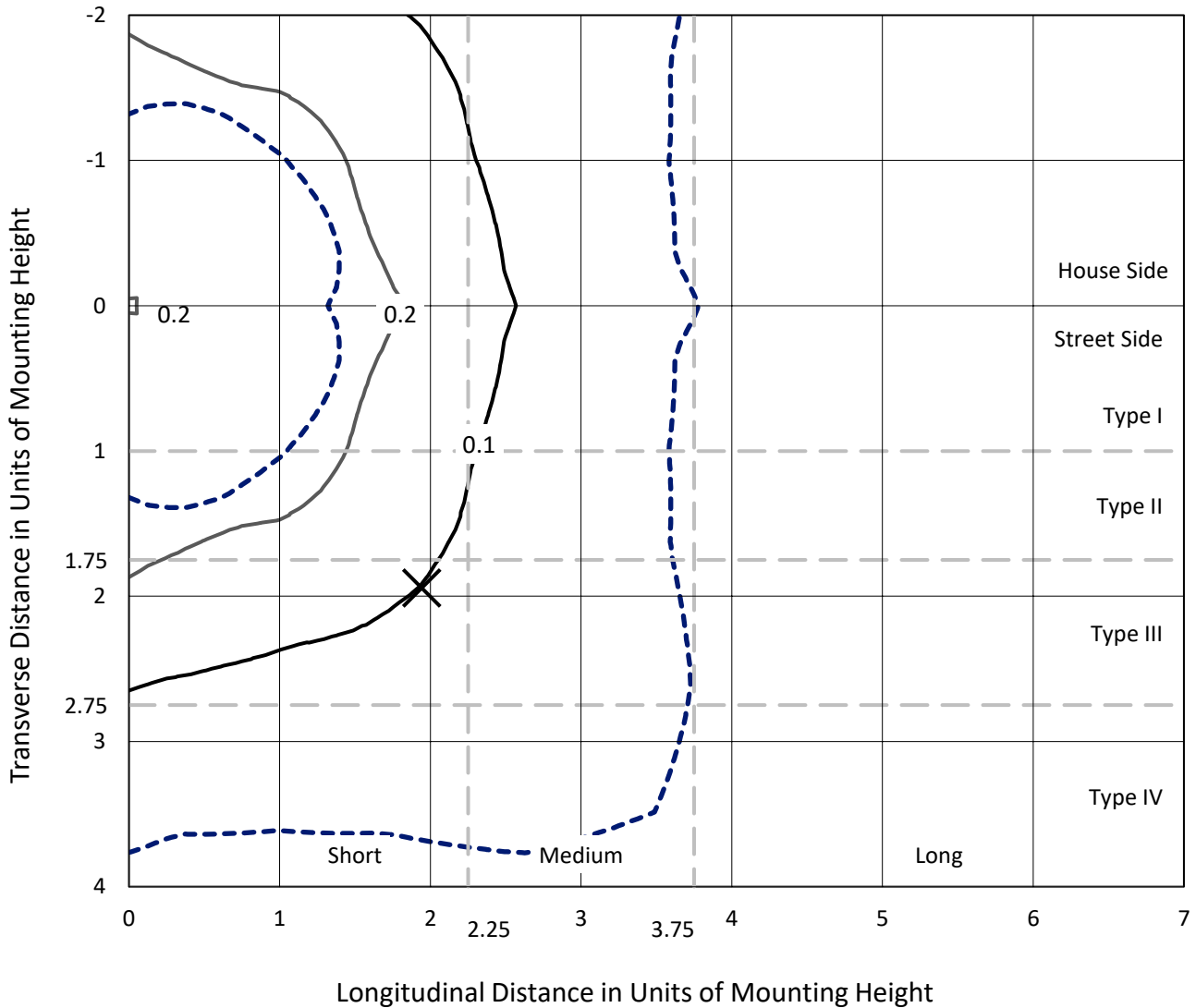
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

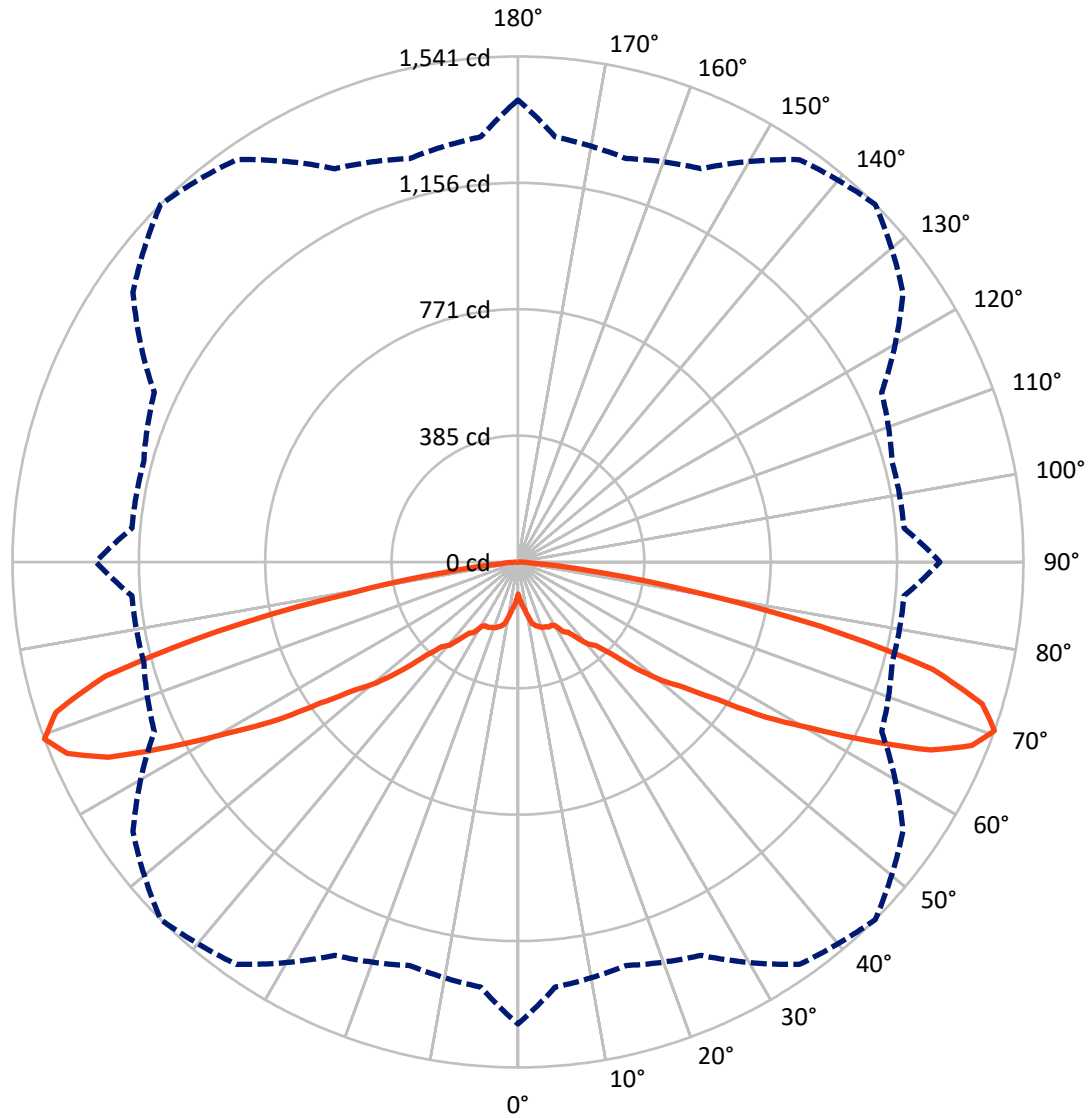
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 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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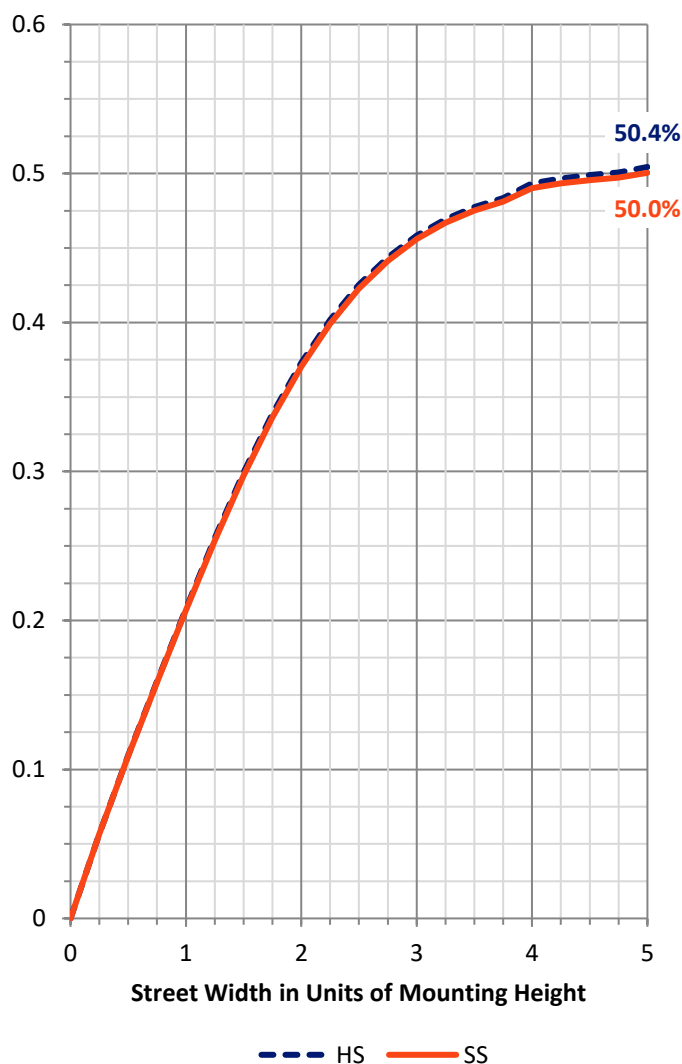
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.5	0.0	1812.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1812.5	0.0	1812.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3625.0	0.0	3625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.3	0.4
10°-20°	57.1	1.6
20°-30°	107.9	3.0
30°-40°	187.9	5.2
40°-50°	359.2	9.9
50°-60°	696.6	19.2
60°-70°	1219.8	33.6
70°-80°	916.7	25.3
80°-90°	65.6	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°	3625.0	100.0
0°-180°	3625.0	100.0

Coefficient of Utilization

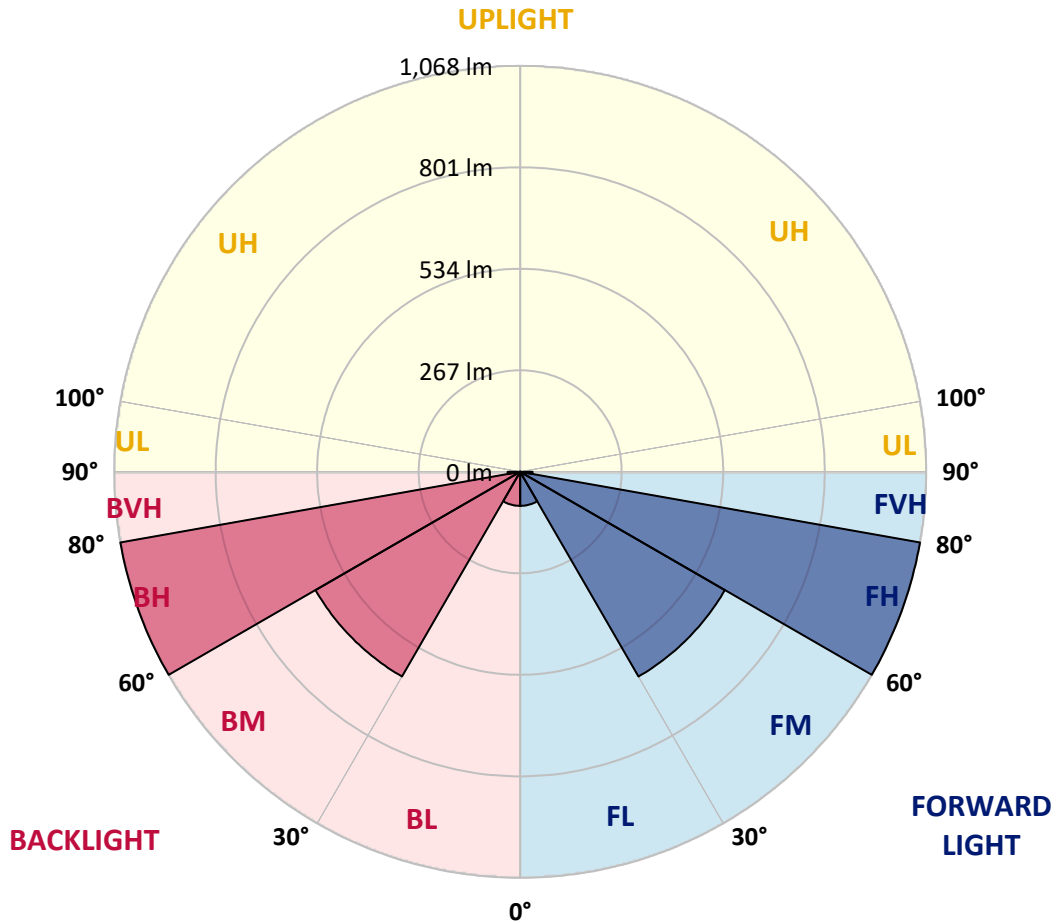


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	89.6	2.5			
FM (30°-60°)	621.9	17.2			
FH (60°-80°)	1068.2	29.5			G1/1800
FVH (80°-90°)	32.8	0.9			G1/100
BL (0°-30°)	89.6	2.5	B0/110		
BM (30°-60°)	621.9	17.2	B1/1000		
BH (60°-80°)	1068.2	29.5	B3/2500		G1/1800
BVH (80°-90°)	32.8	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°	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
2.5°	119.3	117.4	111.7	111.9	114.6	114.9	115.2	111.7	110.8	118.0	118.4
5°	151.5	147.2	143.0	141.3	138.8	131.8	139.5	140.3	142.0	147.5	150.0
7.5°	173.0	167.8	162.0	158.5	151.6	145.8	152.2	157.4	160.7	166.9	170.4
10°	177.1	174.0	173.7	167.5	166.2	168.3	167.9	168.0	173.1	173.3	175.4
12.5°	189.8	192.1	187.7	185.6	186.9	192.1	187.9	186.1	187.3	193.1	190.7
15°	206.6	209.3	202.6	199.3	195.9	200.8	196.5	199.7	203.8	208.0	205.9
17.5°	225.1	225.3	216.3	203.8	206.7	207.4	205.9	203.2	214.9	225.0	224.0
20°	235.3	235.1	219.7	202.6	211.4	212.9	211.5	202.4	219.9	233.9	233.4
22.5°	245.7	242.6	224.0	210.2	213.5	214.7	211.5	210.7	224.0	243.4	243.3
25°	251.3	254.0	233.6	225.0	222.3	219.4	222.2	223.6	236.4	255.4	249.9
27.5°	268.9	264.5	236.4	235.6	229.9	218.3	228.0	234.8	235.6	266.2	271.8
30°	284.8	286.5	249.1	250.3	240.1	225.3	240.3	251.3	253.4	286.7	286.2
32.5°	301.6	302.3	271.6	258.5	254.1	253.6	247.8	257.3	273.9	300.7	301.8
35°	327.2	333.0	291.7	274.1	268.6	263.0	268.0	276.6	292.1	332.2	329.3
37.5°	385.9	376.7	335.4	299.0	295.3	293.1	297.1	303.3	335.0	377.7	390.8
40°	426.8	422.4	366.2	340.2	317.1	329.2	319.6	343.6	369.7	422.7	431.2
42.5°	490.2	470.8	413.0	380.8	356.9	348.3	353.7	384.9	418.2	477.3	493.9
45°	551.1	521.2	471.7	443.3	407.0	398.0	405.1	441.9	480.4	527.1	556.3
47.5°	613.3	582.3	527.9	486.9	457.2	484.0	460.6	495.4	533.8	588.1	614.1
50°	677.8	643.5	589.8	545.1	542.5	566.3	538.2	556.0	591.6	647.9	678.5
52.5°	751.9	715.0	661.2	631.0	636.9	635.4	629.7	626.5	661.5	716.8	753.2
55°	840.1	800.2	757.3	743.4	759.7	742.1	750.4	749.3	754.3	793.8	836.5
57.5°	946.7	901.6	858.5	855.4	876.4	893.0	878.2	857.0	848.1	886.5	935.3
60°	1081.0	1025.6	978.3	968.6	1028.4	1028.3	1014.9	967.4	964.0	1007.5	1066.2
62.5°	1229.4	1161.9	1110.3	1094.8	1188.4	1199.0	1157.4	1072.1	1089.6	1124.6	1194.3
65°	1355.4	1274.2	1226.1	1221.9	1336.4	1382.9	1291.0	1174.4	1180.0	1209.1	1284.6
67.5°	1437.5	1339.8	1301.5	1321.9	1464.2	1493.3	1407.8	1242.7	1222.8	1234.9	1325.1
70°	1408.7	1301.2	1273.7	1323.2	1497.3	1541.3	1433.0	1223.6	1181.1	1181.7	1286.6
72.5°	1190.3	1088.0	1101.1	1192.0	1419.1	1480.8	1316.6	1105.2	1018.3	1016.2	1111.4
75°	787.1	718.7	770.4	912.0	1179.7	1306.0	1090.8	866.3	757.3	721.8	795.4
77.5°	344.3	335.5	379.0	539.0	804.2	941.2	781.5	565.9	411.9	342.6	374.2
80°	92.3	90.3	113.3	204.5	391.5	518.4	422.9	225.7	117.8	85.8	91.0
82.5°	33.6	34.5	42.0	57.2	129.0	218.3	140.5	66.0	44.6	36.6	36.6
85°	14.6	14.2	20.4	22.9	35.2	49.4	40.4	28.0	22.5	16.9	16.2
87.5°	3.9	4.9	6.9	7.2	9.1	7.5	10.7	9.8	8.4	5.9	4.8
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)