

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: P366600

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

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA1A-727-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3458 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

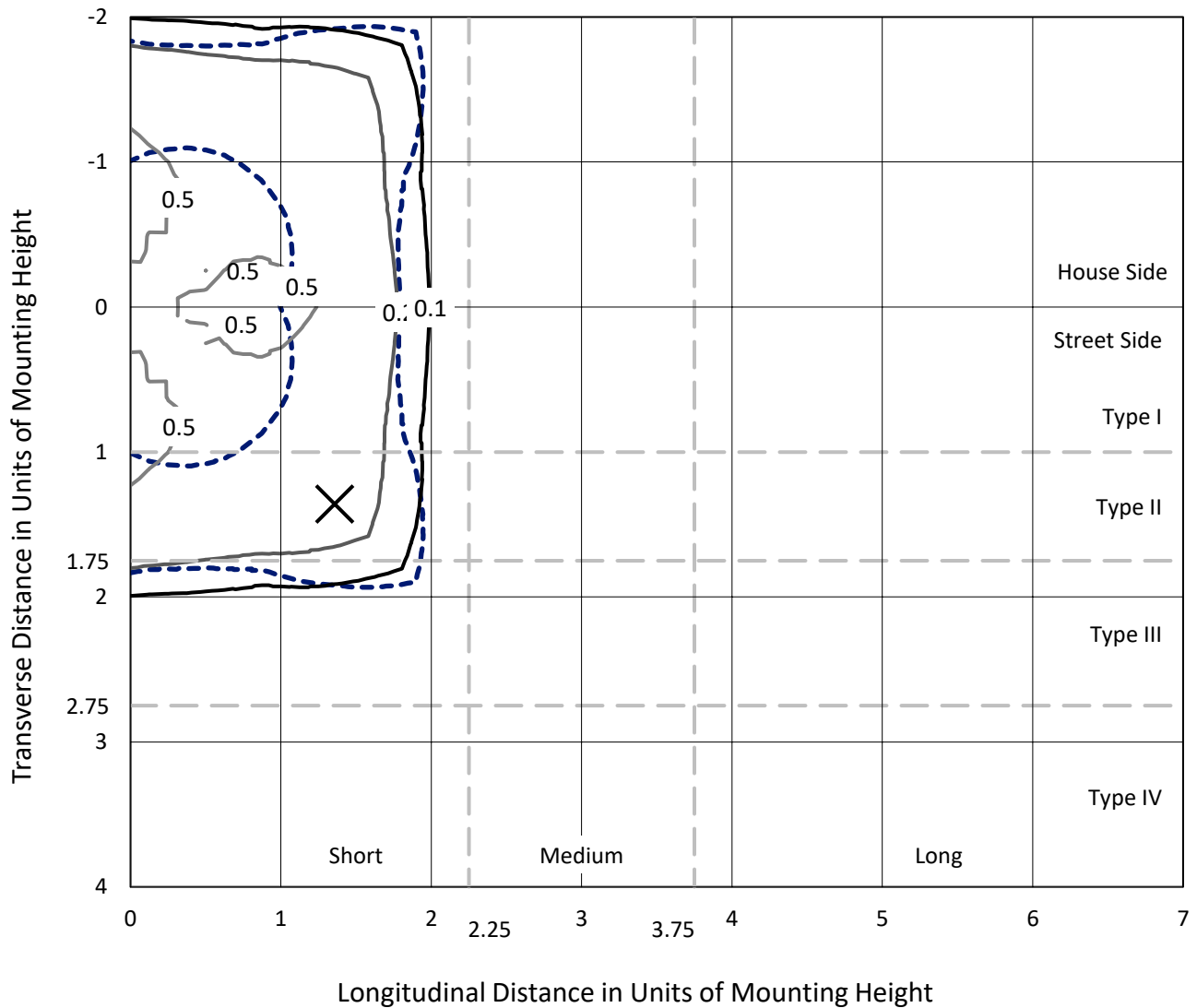
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

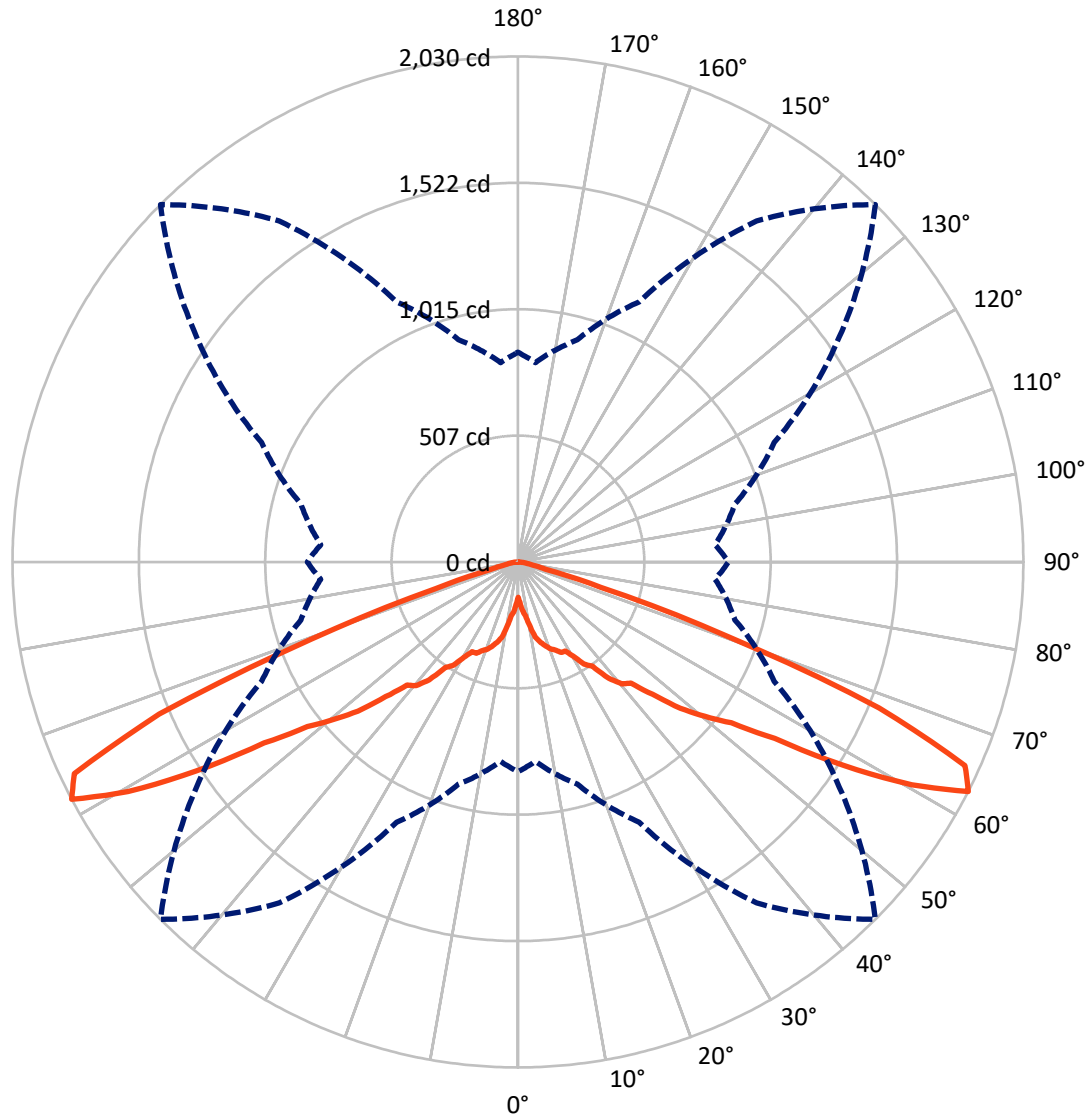
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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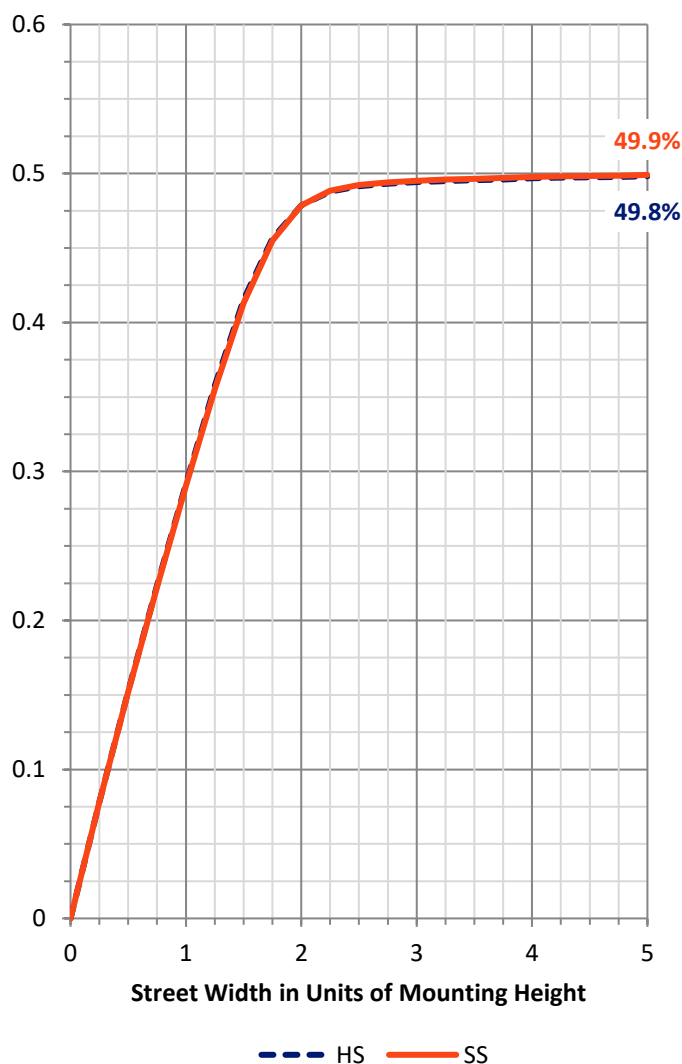
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1729.0	0.0	1729.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1729.0	0.0	1729.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3458.0	0.0	3458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.6
10°-20°	94.0	2.7
20°-30°	196.9	5.7
30°-40°	371.0	10.7
40°-50°	673.4	19.5
50°-60°	1137.9	32.9
60°-70°	850.6	24.6
70°-80°	95.2	2.8
80°-90°	17.7	0.5
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°	3458.0	100.0
0°-180°	3458.0	100.0

Coefficient of Utilization



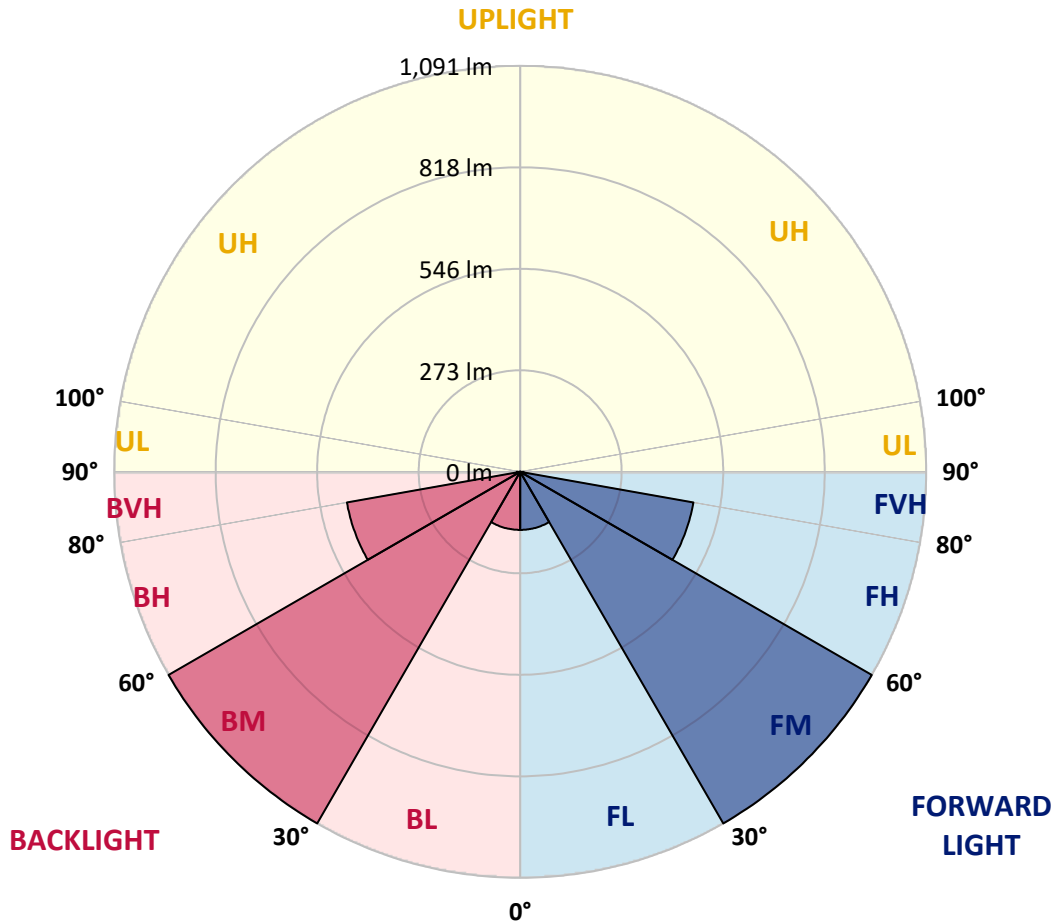
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.1	4.5			
FM (30°-60°)	1091.2	31.6			
FH (60°-80°)	472.9	13.7			G0/660
FVH (80°-90°)	8.9	0.3			G0/10
BL (0°-30°)	156.1	4.5	B1/500		
BM (30°-60°)	1091.2	31.6	B2/2500		
BH (60°-80°)	472.9	13.7	B1/500		G0/660
BVH (80°-90°)	8.9	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4	141.4
2.5°	171.9	168.8	158.0	161.8	165.7	165.2	164.2	161.2	158.6	169.7	171.9
5°	219.2	212.2	208.4	205.3	204.6	197.0	207.4	206.2	209.8	215.7	221.4
7.5°	256.9	250.3	240.3	238.2	226.8	218.3	227.3	238.5	242.0	252.8	259.3
10°	270.7	264.9	266.7	257.3	256.8	259.1	257.2	259.7	269.0	267.7	272.5
12.5°	301.6	302.6	296.7	294.3	299.1	309.5	300.6	297.5	295.3	304.9	307.8
15°	330.6	336.4	326.7	325.1	323.2	332.9	323.3	327.9	332.0	334.0	332.9
17.5°	371.7	372.0	361.1	343.8	350.3	353.4	349.2	341.2	360.4	370.1	370.7
20°	398.7	399.7	378.3	351.3	369.6	372.4	370.3	353.5	379.1	395.3	394.6
22.5°	427.8	424.4	395.5	375.8	382.2	383.9	379.4	377.3	395.3	424.7	420.4
25°	447.4	453.6	424.7	412.1	406.6	402.6	408.4	409.5	428.0	454.7	439.9
27.5°	494.1	483.4	438.2	443.0	431.3	404.8	430.1	444.0	440.1	485.6	496.8
30°	535.6	535.9	472.6	481.7	460.0	438.5	465.9	486.1	481.1	539.5	529.0
32.5°	588.6	590.6	531.8	507.3	492.7	488.6	485.2	507.5	538.1	585.4	586.4
35°	645.9	662.8	582.9	557.1	532.2	514.2	533.6	564.4	584.4	660.0	646.6
37.5°	757.4	729.0	663.6	615.2	599.3	592.1	602.4	620.3	663.5	728.6	751.5
40°	823.4	815.6	726.5	686.0	624.6	643.8	638.1	687.1	722.8	820.1	822.2
42.5°	924.3	884.6	804.6	753.1	697.9	664.7	699.9	765.6	808.8	891.0	929.8
45°	1004.1	953.1	891.4	852.3	782.6	758.0	770.7	854.8	909.0	965.4	1016.4
47.5°	1092.3	1037.1	975.4	905.9	837.9	878.0	855.6	929.6	982.5	1063.4	1111.3
50°	1203.1	1142.1	1063.0	1005.6	960.6	974.7	971.1	1023.9	1089.2	1162.9	1217.2
52.5°	1325.3	1256.2	1179.9	1126.6	1107.6	1072.7	1118.3	1140.0	1188.1	1255.6	1319.3
55°	1410.6	1341.6	1295.4	1312.6	1307.5	1251.5	1291.5	1293.7	1270.5	1294.9	1359.0
57.5°	1397.4	1331.4	1325.1	1390.0	1486.9	1541.1	1479.3	1346.5	1259.6	1248.2	1316.1
60°	1221.8	1165.4	1223.4	1369.7	1652.1	1816.9	1579.2	1306.7	1163.5	1104.2	1169.8
62.5°	842.0	803.9	924.0	1152.8	1671.9	2029.8	1575.5	1135.5	902.4	794.9	845.8
65°	399.1	385.3	486.8	730.9	1392.6	1973.0	1376.5	768.3	519.4	414.9	426.4
67.5°	150.1	143.2	178.7	322.9	877.2	1564.8	925.3	379.0	200.9	156.2	161.5
70°	85.3	80.3	85.0	117.8	353.1	886.3	399.1	130.0	85.4	77.8	82.9
72.5°	67.1	63.3	64.0	71.2	121.8	347.9	129.1	74.1	62.0	58.9	63.4
75°	55.4	52.1	51.9	55.9	71.0	113.0	73.0	56.7	50.2	48.0	51.6
77.5°	44.0	42.1	42.6	45.7	50.9	63.2	52.9	45.9	41.2	38.5	41.1
80°	32.2	31.9	34.2	37.0	38.0	42.5	39.7	37.0	32.9	29.1	30.1
82.5°	21.1	21.2	25.5	27.7	27.3	27.2	28.4	28.3	24.6	19.3	19.3
85°	12.1	12.4	15.6	17.4	17.2	13.6	18.0	18.1	15.8	11.7	11.3
87.5°	3.9	4.9	6.8	7.2	6.9	3.8	6.9	7.6	6.9	4.9	4.4
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)