

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: P366864

Luminaire Tested: **MSA-SA1C-727-U-5NQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366864
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-SA1C-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: 5367 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

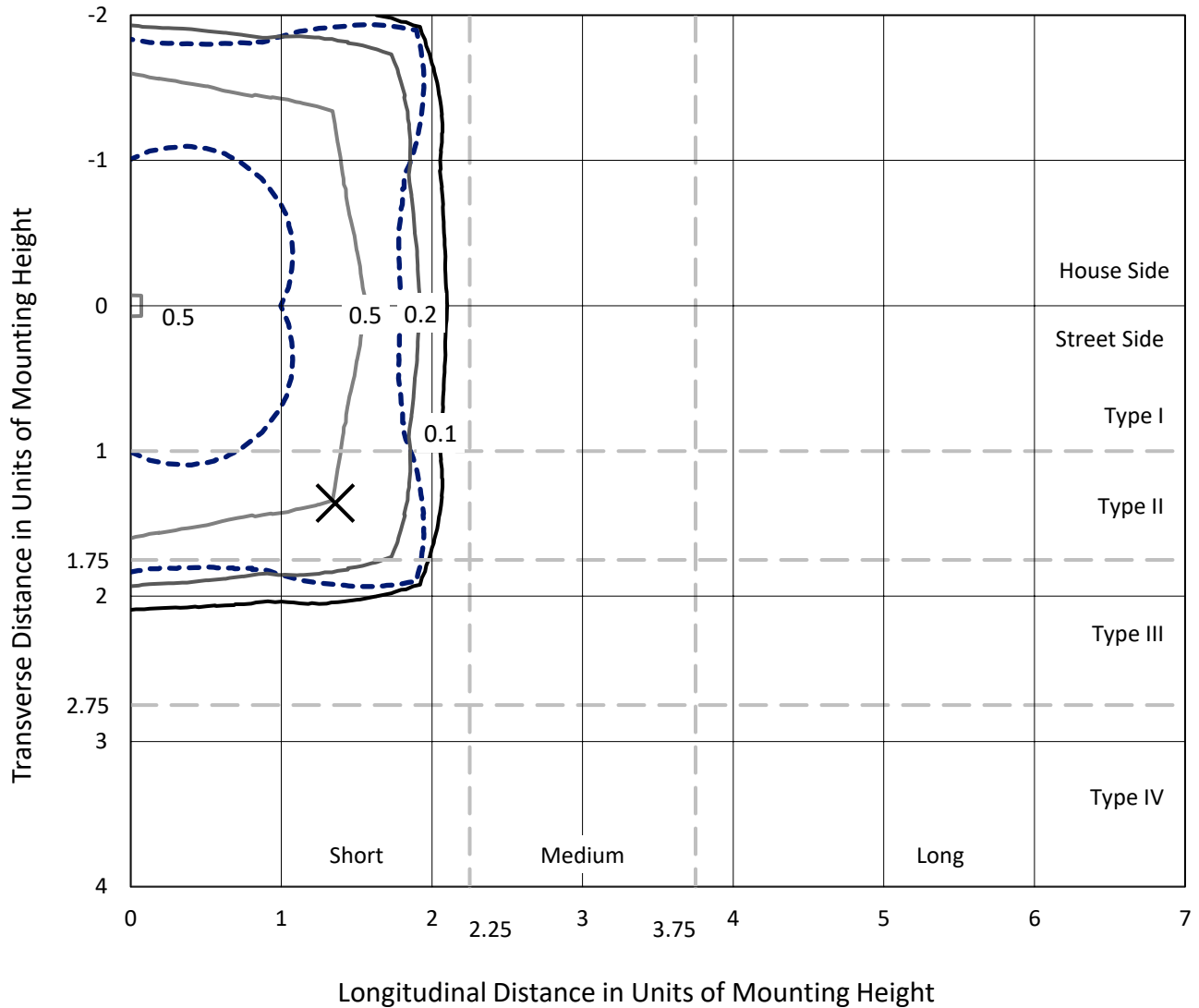
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

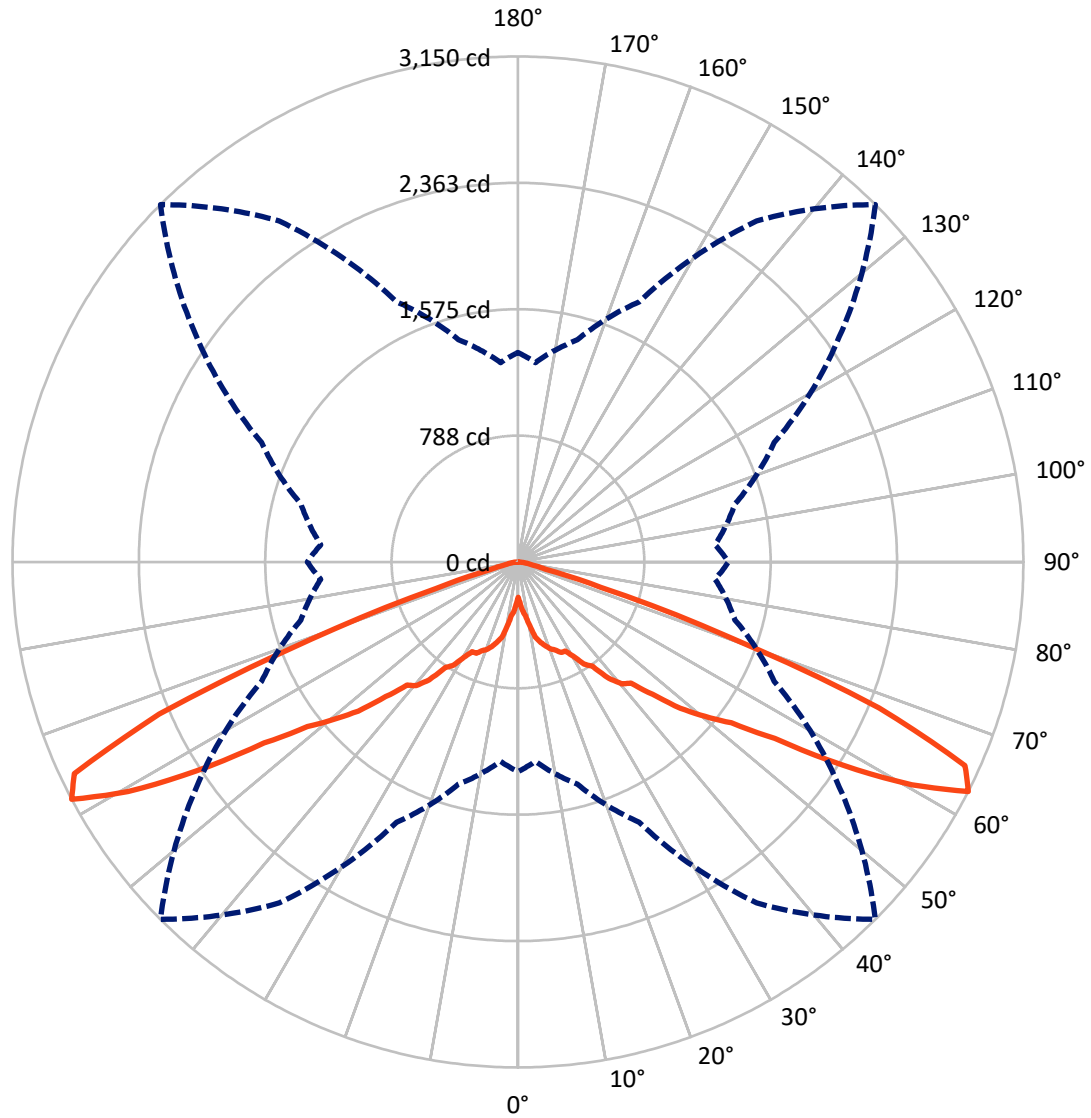
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	2683.5	0.0	2683.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2683.5	0.0	2683.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5367.0	0.0	5367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	0.6
10°-20°	145.8	2.7
20°-30°	305.6	5.7
30°-40°	575.9	10.7
40°-50°	1045.2	19.5
50°-60°	1766.0	32.9
60°-70°	1320.2	24.6
70°-80°	147.7	2.8
80°-90°	27.5	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°	5367.0	100.0
0°-180°	5367.0	100.0

Coefficient of Utilization



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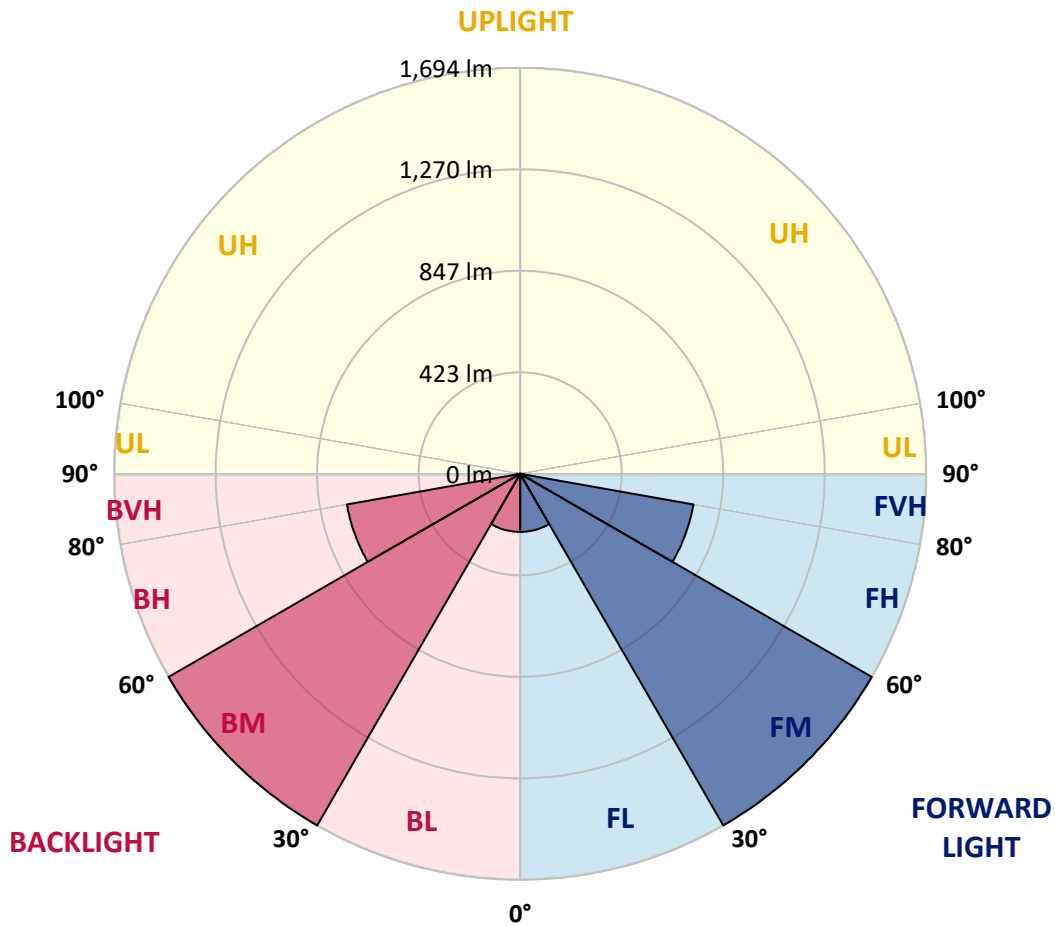
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.3	4.5			
FM (30°-60°)	1693.5	31.6			
FH (60°-80°)	734.0	13.7			G1/1800
FVH (80°-90°)	13.7	0.3			G1/100
BL (0°-30°)	242.3	4.5	B1/500		
BM (30°-60°)	1693.5	31.6	B2/2500		
BH (60°-80°)	734.0	13.7	B2/1000		G1/1800
BVH (80°-90°)	13.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4
2.5°	266.8	262.0	245.2	251.1	257.2	256.3	254.8	250.2	246.1	263.3	266.8
5°	340.2	329.3	323.4	318.6	317.5	305.7	321.8	320.1	325.6	334.7	343.7
7.5°	398.7	388.4	372.9	369.7	352.0	338.9	352.9	370.1	375.6	392.4	402.4
10°	420.1	411.2	414.0	399.4	398.5	402.2	399.1	403.1	417.5	415.5	422.9
12.5°	468.1	469.7	460.5	456.8	464.2	480.4	466.6	461.8	458.3	473.2	477.8
15°	513.1	522.1	507.0	504.6	501.6	516.6	501.8	509.0	515.3	518.4	516.6
17.5°	576.9	577.3	560.5	533.6	543.7	548.5	541.9	529.5	559.4	574.5	575.4
20°	618.8	620.3	587.1	545.2	573.6	578.0	574.7	548.7	588.5	613.6	612.5
22.5°	664.0	658.8	613.8	583.2	593.3	595.9	588.9	585.6	613.6	659.2	652.4
25°	694.4	704.0	659.2	639.5	631.0	624.9	633.9	635.6	664.2	705.7	682.8
27.5°	766.8	750.3	680.2	687.6	669.5	628.2	667.5	689.1	683.0	753.7	771.0
30°	831.3	831.7	733.4	747.6	714.0	680.6	723.2	754.4	746.8	837.4	821.0
32.5°	913.6	916.6	825.4	787.4	764.7	758.3	753.1	787.6	835.2	908.6	910.1
35°	1002.4	1028.6	904.6	864.7	826.0	798.1	828.2	876.0	907.0	1024.3	1003.5
37.5°	1175.6	1131.5	1030.0	954.8	930.2	919.0	935.0	962.7	1029.7	1130.8	1166.4
40°	1278.0	1265.8	1127.6	1064.7	969.5	999.2	990.4	1066.4	1121.9	1272.8	1276.0
42.5°	1434.6	1373.0	1248.7	1168.8	1083.2	1031.7	1086.3	1188.3	1255.3	1382.8	1443.1
45°	1558.4	1479.3	1383.5	1322.8	1214.7	1176.5	1196.1	1326.7	1410.8	1498.3	1577.6
47.5°	1695.3	1609.7	1513.8	1406.0	1300.5	1362.7	1328.0	1442.9	1525.0	1650.5	1724.8
50°	1867.3	1772.6	1649.9	1560.8	1490.9	1512.7	1507.3	1589.2	1690.5	1804.9	1889.2
52.5°	2056.9	1949.7	1831.3	1748.6	1719.1	1664.9	1735.7	1769.3	1844.0	1948.8	2047.7
55°	2189.4	2082.2	2010.6	2037.2	2029.4	1942.4	2004.5	2008.0	1971.9	2009.7	2109.3
57.5°	2168.9	2066.5	2056.6	2157.3	2307.7	2391.8	2296.0	2089.8	1954.9	1937.2	2042.7
60°	1896.4	1808.8	1898.8	2125.9	2564.1	2820.0	2451.0	2028.0	1805.8	1713.8	1815.6
62.5°	1306.8	1247.7	1434.1	1789.2	2594.9	3150.4	2445.3	1762.3	1400.5	1233.7	1312.7
65°	619.5	598.1	755.5	1134.3	2161.5	3062.1	2136.3	1192.4	806.2	643.9	661.8
67.5°	233.0	222.3	277.3	501.1	1361.4	2428.7	1436.1	588.2	311.8	242.4	250.7
70°	132.3	124.7	131.9	182.8	548.1	1375.6	619.5	201.8	132.5	120.7	128.6
72.5°	104.2	98.3	99.3	110.5	189.1	540.0	200.4	115.1	96.3	91.5	98.5
75°	86.0	80.8	80.6	86.7	110.3	175.3	113.3	88.0	78.0	74.5	80.1
77.5°	68.3	65.3	66.2	71.0	79.0	98.0	82.1	71.2	64.0	59.8	63.8
80°	50.0	49.6	53.1	57.4	59.0	65.9	61.6	57.4	51.1	45.2	46.7
82.5°	32.8	33.0	39.5	43.0	42.4	42.1	44.1	43.9	38.2	29.9	29.9
85°	18.8	19.2	24.2	27.1	26.6	21.2	27.9	28.2	24.5	18.1	17.5
87.5°	6.1	7.6	10.5	11.1	10.7	5.9	10.7	11.8	10.7	7.6	6.8
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)