

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: P366865

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

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366865
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-SA1C-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: 5627 lumens
Efficiency: N/A
Efficacy: 95.4 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

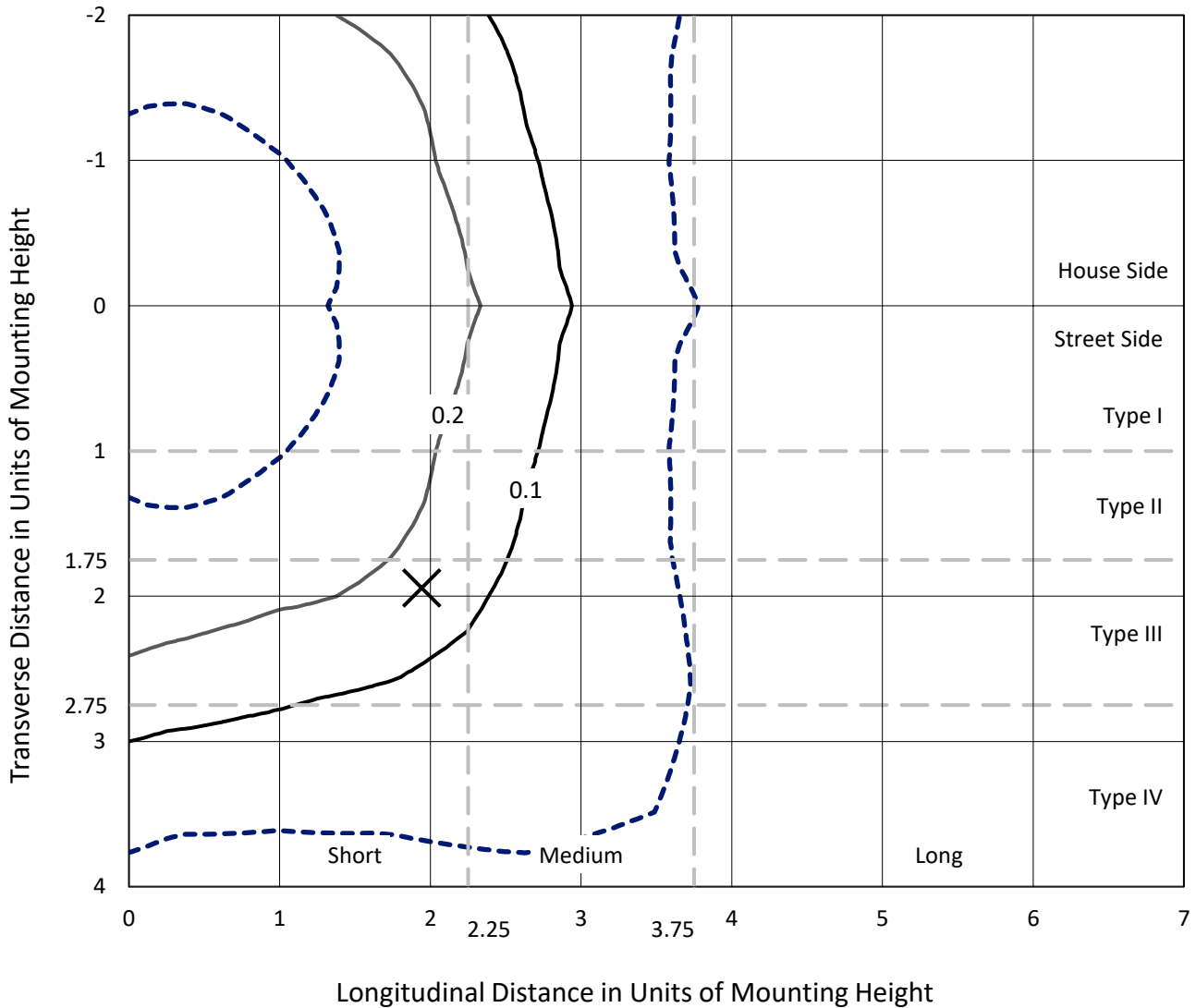
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

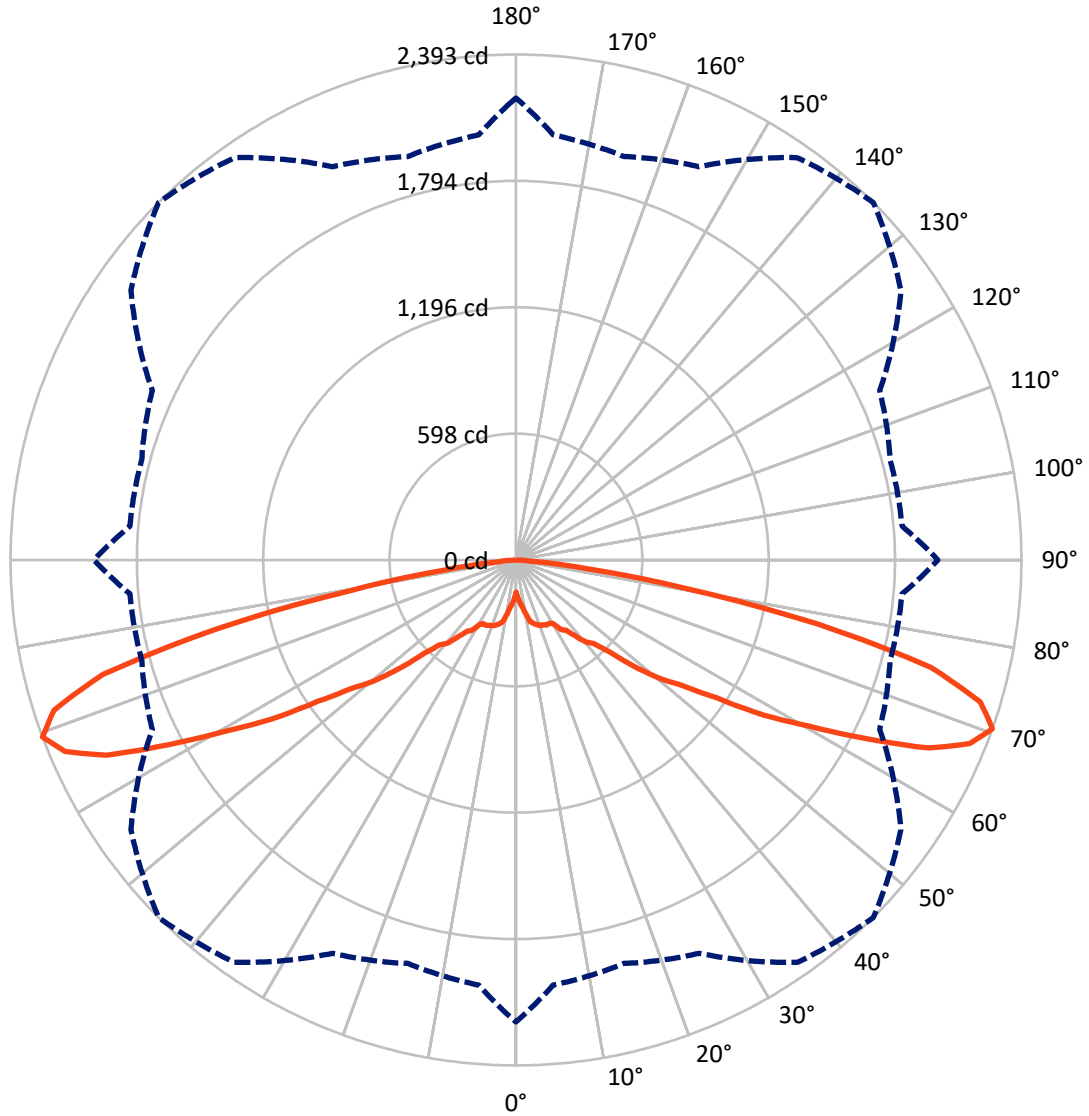
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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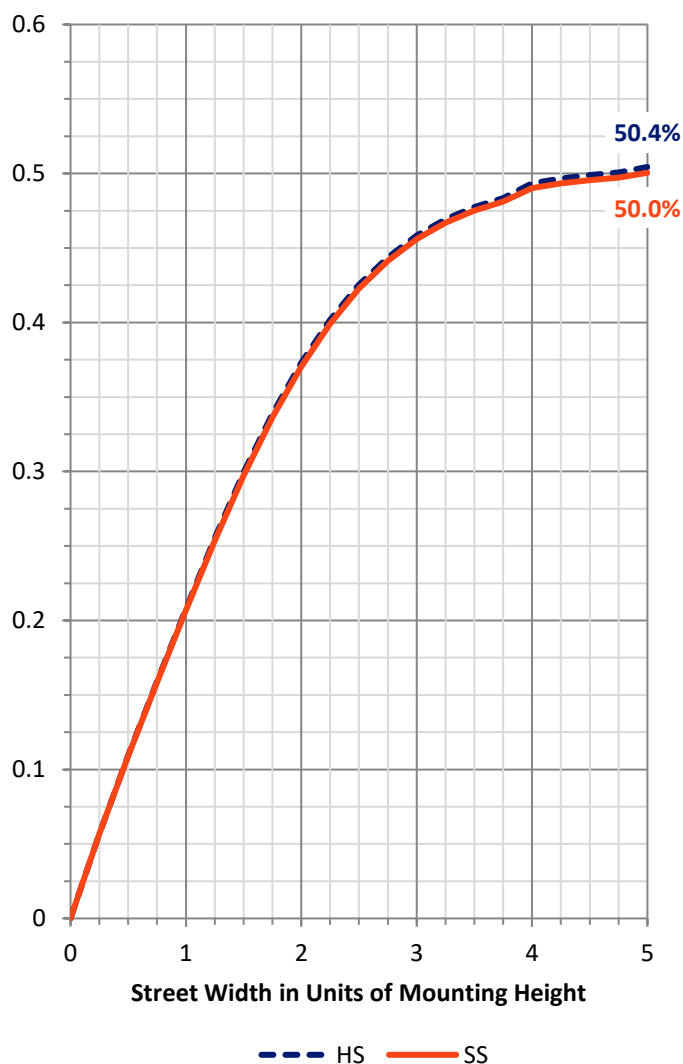
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2813.5	0.0	2813.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2813.5	0.0	2813.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5627.0	0.0	5627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.1	0.4
10°-20°	88.6	1.6
20°-30°	167.5	3.0
30°-40°	291.7	5.2
40°-50°	557.6	9.9
50°-60°	1081.3	19.2
60°-70°	1893.4	33.6
70°-80°	1423.0	25.3
80°-90°	101.8	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°	5627.0	100.0
0°-180°	5627.0	100.0

Coefficient of Utilization

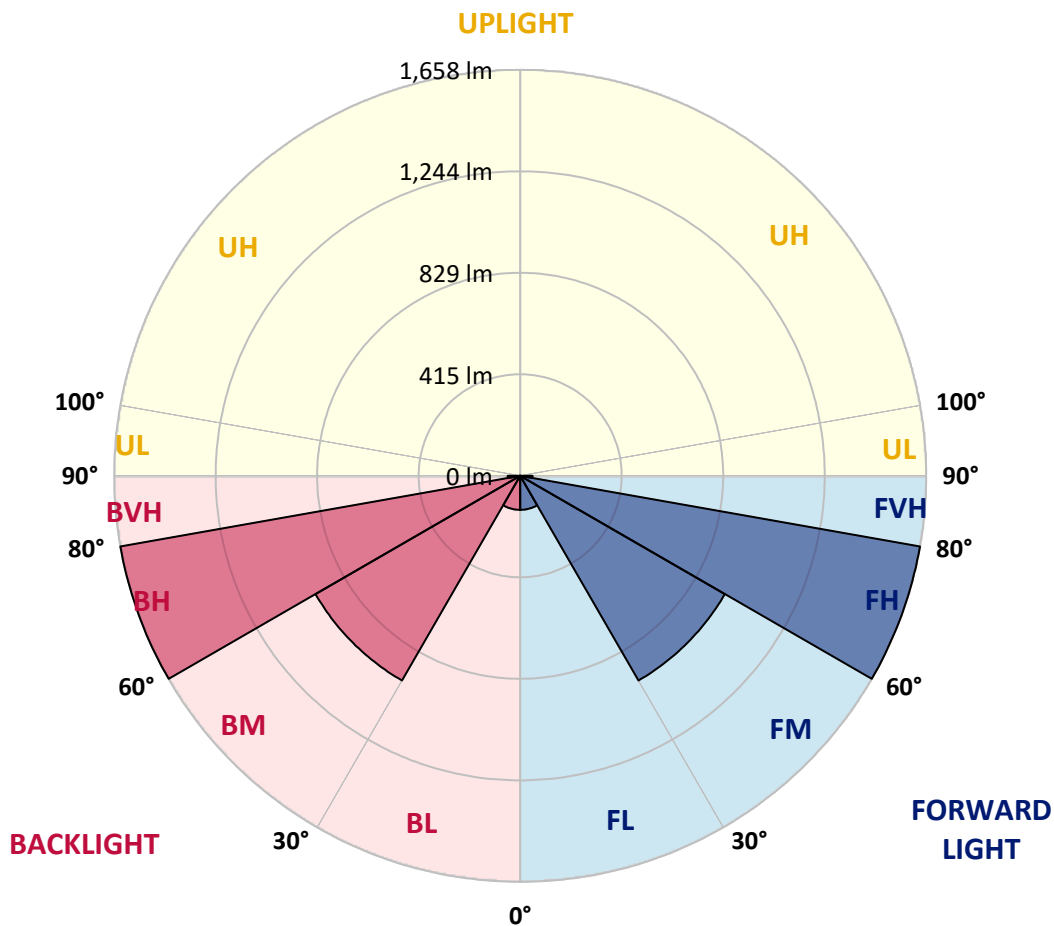


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	139.1	2.5			
FM (30°-60°)	965.3	17.2			
FH (60°-80°)	1658.2	29.5			G1/1800
FVH (80°-90°)	50.9	0.9			G1/100
BL (0°-30°)	139.1	2.5	B1/500		
BM (30°-60°)	965.3	17.2	B1/1000		
BH (60°-80°)	1658.2	29.5	B3/2500		G1/1800
BVH (80°-90°)	50.9	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°	152.1	152.1	152.1	152.1	152.1	152.1	152.1	152.1	152.1	152.1	152.1
2.5°	185.1	182.3	173.3	173.8	177.9	178.3	178.8	173.3	172.0	183.1	183.8
5°	235.1	228.6	222.0	219.4	215.5	204.5	216.5	217.9	220.5	229.0	232.9
7.5°	268.5	260.4	251.5	246.0	235.3	226.4	236.2	244.3	249.5	259.1	264.6
10°	274.8	270.0	269.6	260.0	258.0	261.3	260.6	260.9	268.7	268.9	272.2
12.5°	294.7	298.2	291.4	288.1	290.1	298.2	291.6	288.8	290.8	299.7	296.0
15°	320.7	324.8	314.6	309.3	304.1	311.7	305.0	310.0	316.3	322.9	319.6
17.5°	349.5	349.7	335.7	316.3	320.9	322.0	319.6	315.4	333.6	349.3	347.7
20°	365.2	365.0	341.0	314.6	328.1	330.5	328.3	314.1	341.4	363.0	362.4
22.5°	381.4	376.6	347.7	326.3	331.4	333.3	328.3	327.0	347.7	377.9	377.6
25°	390.1	394.2	362.6	349.3	345.1	340.5	344.9	347.1	366.9	396.4	387.9
27.5°	417.4	410.6	366.9	365.6	356.9	338.8	353.9	364.5	365.6	413.2	422.0
30°	442.0	444.7	386.6	388.6	372.6	349.7	373.1	390.1	393.4	445.1	444.2
32.5°	468.2	469.3	421.5	401.2	394.5	393.6	384.6	399.5	425.2	466.7	468.5
35°	508.0	516.9	452.7	425.5	416.9	408.2	416.1	429.4	453.4	515.6	511.2
37.5°	599.0	584.8	520.6	464.1	458.4	454.9	461.3	470.9	520.0	586.3	606.6
40°	662.5	655.8	568.4	528.0	492.2	511.0	496.2	533.3	573.9	656.2	669.3
42.5°	761.0	730.8	641.1	591.1	554.0	540.7	549.0	597.5	649.2	740.9	766.6
45°	855.5	809.0	732.2	688.1	631.7	617.8	628.9	685.9	745.7	818.2	863.6
47.5°	952.0	903.9	819.5	755.7	709.7	751.4	714.9	769.0	828.6	912.9	953.3
50°	1052.2	998.9	915.5	846.1	842.2	879.1	835.4	863.1	918.4	1005.7	1053.3
52.5°	1167.2	1109.8	1026.4	979.5	988.6	986.2	977.5	972.5	1026.8	1112.6	1169.2
55°	1304.1	1242.1	1175.5	1153.9	1179.2	1151.9	1164.8	1163.1	1170.9	1232.3	1298.4
57.5°	1469.5	1399.5	1332.7	1327.9	1360.4	1386.2	1363.2	1330.3	1316.5	1376.1	1451.9
60°	1678.0	1592.0	1518.7	1503.6	1596.4	1596.2	1575.4	1501.6	1496.4	1563.8	1655.1
62.5°	1908.3	1803.5	1723.4	1699.4	1844.8	1861.2	1796.5	1664.3	1691.3	1745.7	1854.0
65°	2103.9	1977.9	1903.3	1896.7	2074.4	2146.7	2003.9	1823.0	1831.7	1876.9	1994.1
67.5°	2231.4	2079.7	2020.3	2052.0	2272.9	2318.0	2185.3	1929.1	1898.1	1916.8	2057.0
70°	2186.6	2019.9	1977.1	2053.9	2324.2	2392.5	2224.4	1899.4	1833.4	1834.3	1997.2
72.5°	1847.6	1688.9	1709.2	1850.2	2202.8	2298.6	2043.7	1715.6	1580.7	1577.4	1725.2
75°	1221.8	1115.7	1195.8	1415.6	1831.3	2027.3	1693.3	1344.7	1175.5	1120.5	1234.7
77.5°	534.4	520.8	588.3	836.7	1248.4	1461.0	1213.1	878.4	639.4	531.8	580.9
80°	143.2	140.1	175.9	317.4	607.7	804.6	656.4	350.4	182.9	133.2	141.2
82.5°	52.2	53.5	65.3	88.8	200.2	338.8	218.1	102.4	69.2	56.8	56.8
85°	22.7	22.0	31.7	35.6	54.6	76.6	62.6	43.4	34.9	26.2	25.1
87.5°	6.1	7.6	10.7	11.1	14.2	11.6	16.6	15.3	13.1	9.2	7.4
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)