

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: P367129

Luminaire Tested: **MSA-SA2A-727-U-5WQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367129  
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-SA2A-727-U-5WQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

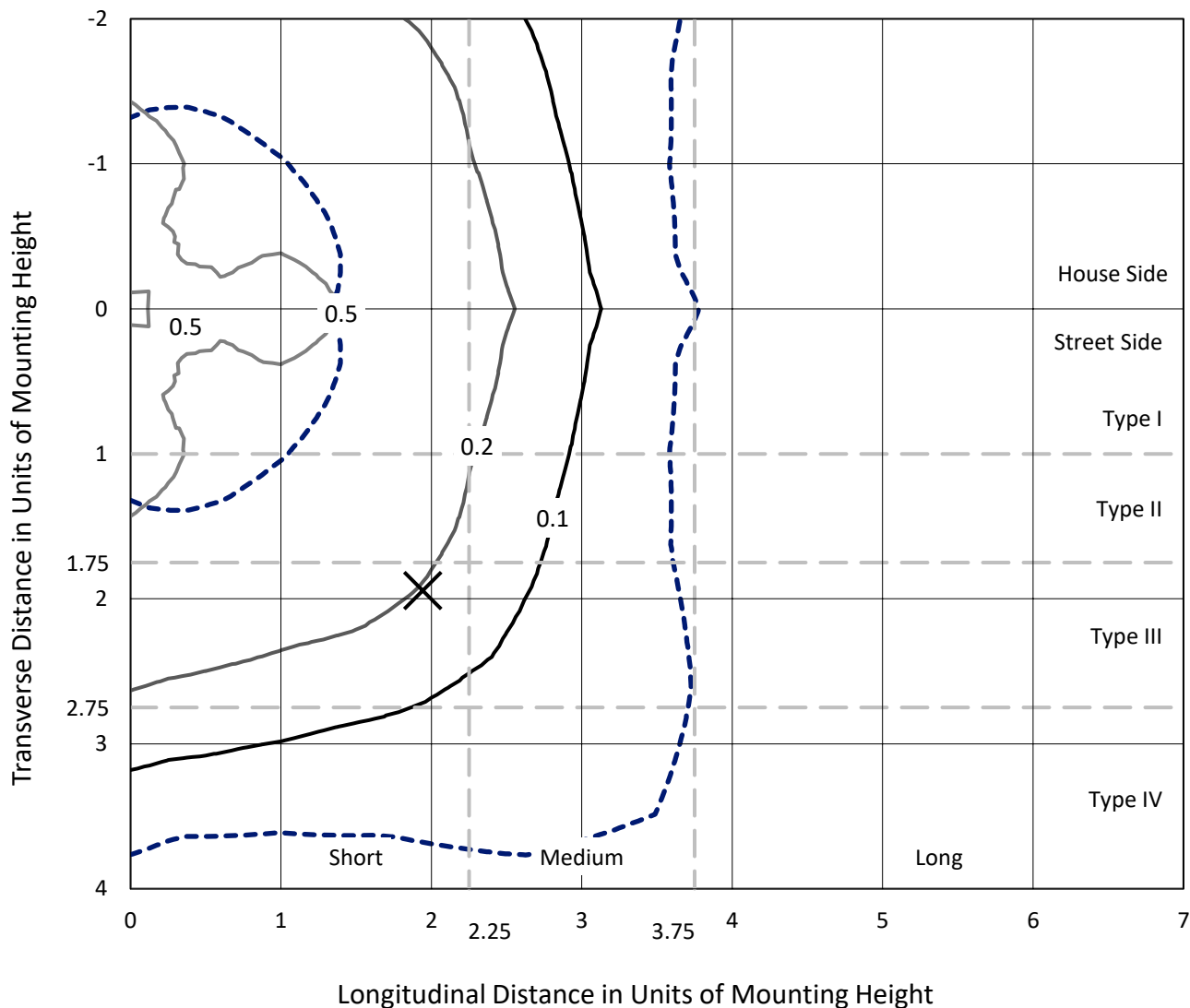
Lumens per Lamp: N/A  
Luminaire Lumens: 7131 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

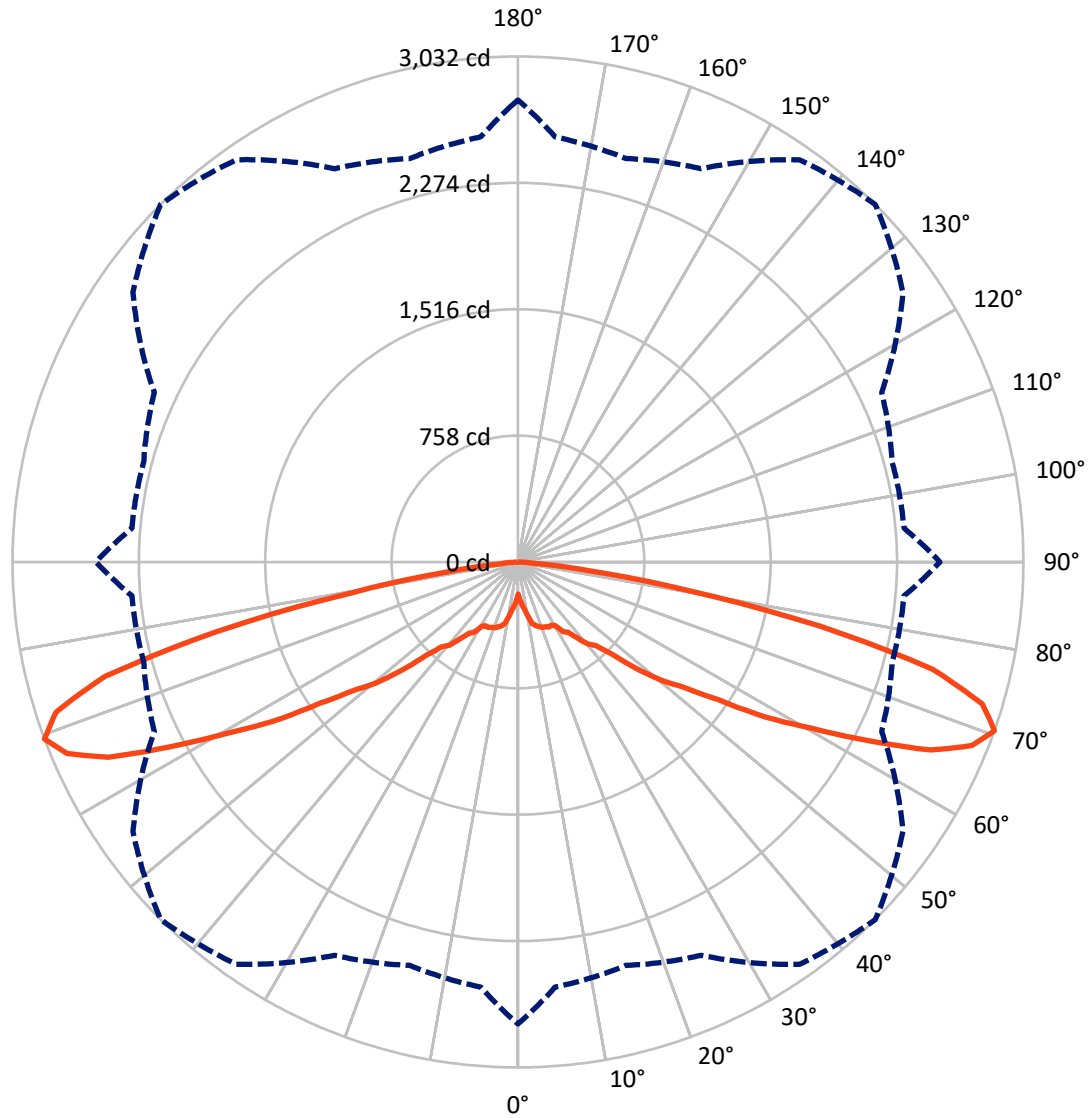
✕ Max cd  
 - - - 1/2 Max cd



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 70-Deg Vertical

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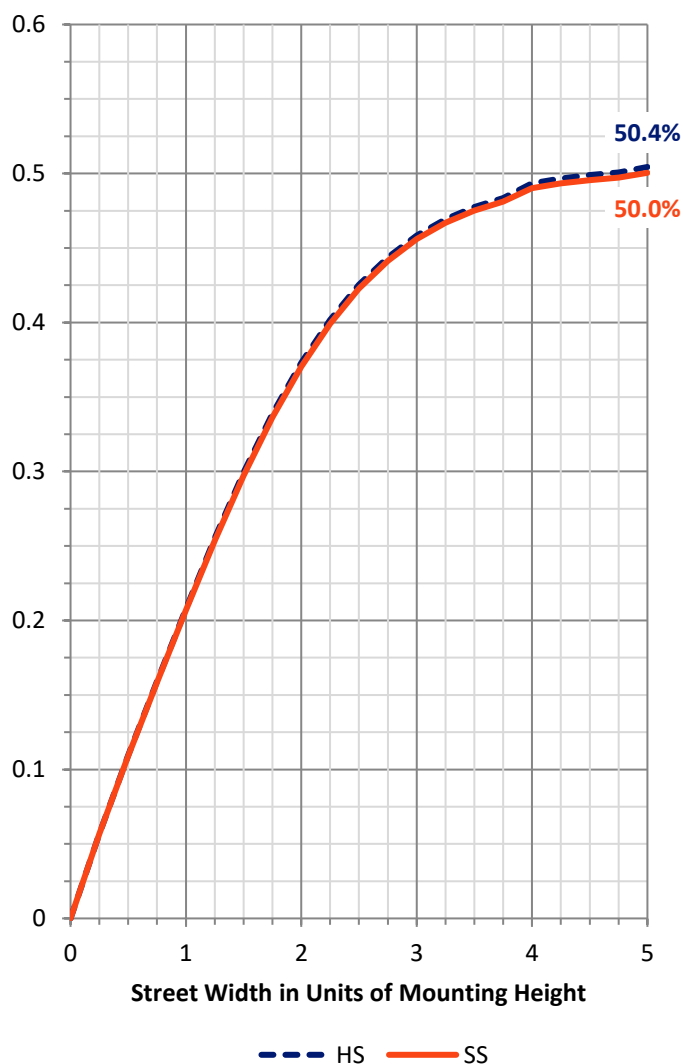
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3565.5	0.0	3565.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3565.5	0.0	3565.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7131.0	0.0	7131.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.0	0.4
10°-20°	112.3	1.6
20°-30°	212.2	3.0
30°-40°	369.7	5.2
40°-50°	706.7	9.9
50°-60°	1370.3	19.2
60°-70°	2399.5	33.6
70°-80°	1803.3	25.3
80°-90°	129.0	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°	7131.0	100.0
0°-180°	7131.0	100.0

**Coefficient of Utilization**



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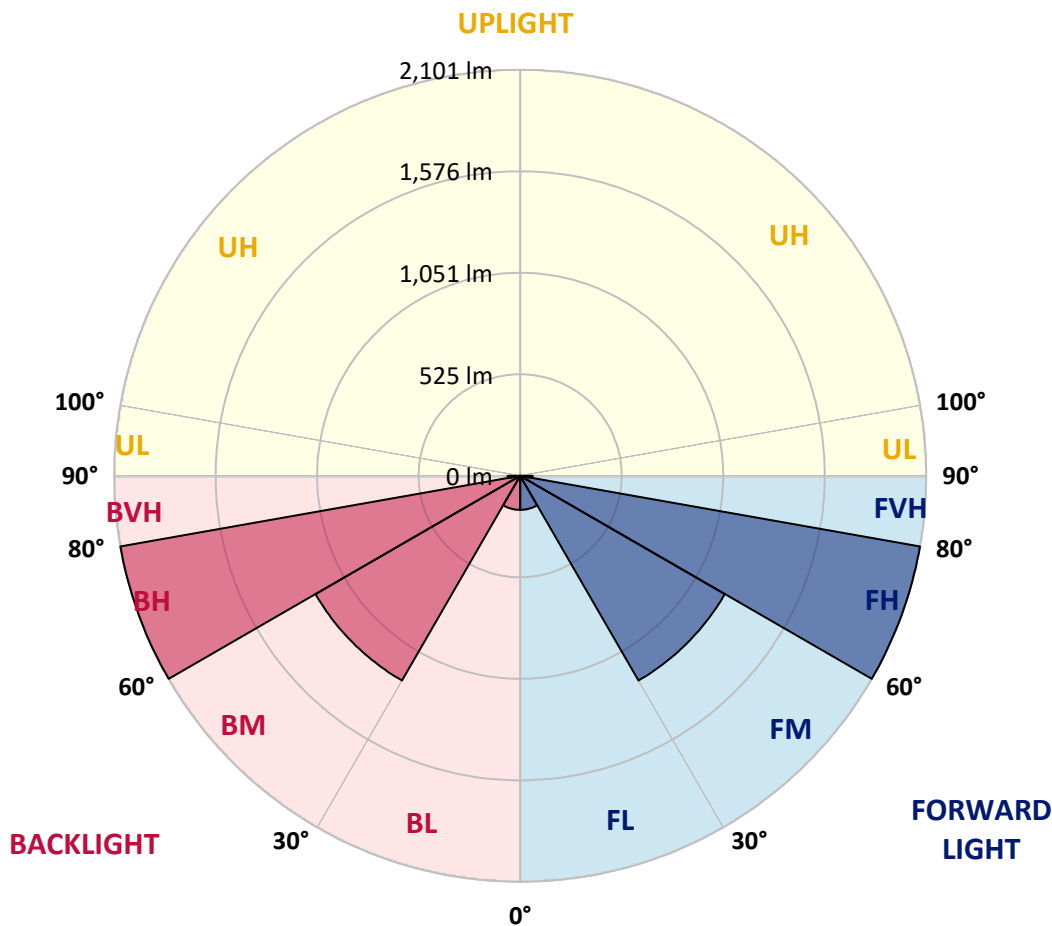
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.3	2.5			
FM (30°-60°)	1223.3	17.2			
FH (60°-80°)	2101.4	29.5			G2/5000
FVH (80°-90°)	64.5	0.9			G1/100
BL (0°-30°)	176.3	2.5	B1/500		
BM (30°-60°)	1223.3	17.2	B2/2500		
BH (60°-80°)	2101.4	29.5	B3/2500		G2/5000
BVH (80°-90°)	64.5	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	192.8	192.8	192.8	192.8	192.8	192.8	192.8	192.8	192.8	192.8	192.8
2.5°	234.6	231.0	219.7	220.2	225.5	226.0	226.6	219.7	218.0	232.1	232.9
5°	297.9	289.6	281.3	278.0	273.0	259.2	274.4	276.1	279.4	290.2	295.2
7.5°	340.3	330.0	318.7	311.8	298.2	286.9	299.3	309.6	316.2	328.4	335.3
10°	348.3	342.2	341.6	329.5	327.0	331.1	330.3	330.6	340.5	340.8	345.0
12.5°	373.5	377.9	369.3	365.2	367.7	377.9	369.6	366.0	368.5	379.8	375.1
15°	406.4	411.6	398.6	392.0	385.4	395.0	386.5	392.8	400.8	409.1	405.0
17.5°	442.9	443.2	425.5	400.8	406.7	408.0	405.0	399.7	422.7	442.6	440.7
20°	462.8	462.5	432.1	398.6	415.8	418.8	416.1	398.1	432.7	460.0	459.2
22.5°	483.3	477.2	440.7	413.6	419.9	422.4	416.1	414.4	440.7	478.9	478.6
25°	494.4	499.6	459.5	442.6	437.4	431.6	437.1	439.9	465.0	502.4	491.6
27.5°	528.9	520.4	465.0	463.4	452.3	429.3	448.4	462.0	463.4	523.7	534.7
30°	560.2	563.5	489.9	492.4	472.2	443.2	472.8	494.4	498.5	564.1	563.0
32.5°	593.4	594.8	534.2	508.5	499.9	498.8	487.4	506.2	538.9	591.5	593.7
35°	643.7	655.1	573.7	539.2	528.4	517.3	527.3	544.1	574.6	653.4	647.9
37.5°	759.1	741.1	659.8	588.1	580.9	576.5	584.5	596.7	659.0	743.1	768.8
40°	839.6	831.0	720.4	669.2	623.8	647.6	628.8	675.8	727.3	831.6	848.2
42.5°	964.4	926.2	812.5	749.1	702.1	685.2	695.7	757.2	822.7	938.9	971.6
45°	1084.1	1025.2	927.8	872.0	800.6	782.9	797.0	869.2	945.0	1036.8	1094.4
47.5°	1206.4	1145.6	1038.5	957.7	899.4	952.2	906.0	974.6	1050.1	1156.9	1208.1
50°	1333.4	1265.9	1160.2	1072.3	1067.3	1114.0	1058.7	1093.8	1163.8	1274.5	1334.8
52.5°	1479.2	1406.4	1300.8	1241.3	1252.9	1249.9	1238.8	1232.4	1301.3	1410.0	1481.7
55°	1652.6	1574.1	1489.7	1462.3	1494.4	1459.8	1476.1	1473.9	1483.9	1561.6	1645.4
57.5°	1862.3	1773.5	1688.9	1682.8	1724.0	1756.7	1727.6	1685.8	1668.4	1743.9	1839.9
60°	2126.5	2017.5	1924.6	1905.5	2023.1	2022.8	1996.5	1903.0	1896.4	1981.8	2097.5
62.5°	2418.4	2285.6	2184.1	2153.6	2337.9	2358.6	2276.7	2109.1	2143.4	2212.3	2349.5
65°	2666.2	2506.6	2412.0	2403.7	2628.9	2720.5	2539.5	2310.2	2321.3	2378.5	2527.1
67.5°	2827.8	2635.5	2560.3	2600.4	2880.4	2937.6	2769.4	2444.7	2405.4	2429.2	2606.8
70°	2771.1	2559.7	2505.5	2602.9	2945.4	3032.0	2818.9	2407.0	2323.5	2324.6	2531.0
72.5°	2341.5	2140.4	2166.1	2344.8	2791.6	2913.0	2589.9	2174.1	2003.1	1999.0	2186.3
75°	1548.3	1413.9	1515.4	1794.0	2320.7	2569.1	2145.9	1704.1	1489.7	1420.0	1564.7
77.5°	677.2	660.1	745.5	1060.4	1582.1	1851.5	1537.3	1113.2	810.3	673.9	736.1
80°	181.5	177.6	223.0	402.2	770.2	1019.7	831.9	444.0	231.8	168.7	179.0
82.5°	66.1	67.8	82.7	112.6	253.7	429.3	276.4	129.7	87.7	71.9	71.9
85°	28.8	27.9	40.1	45.1	69.2	97.1	79.4	55.1	44.3	33.2	31.8
87.5°	7.7	9.7	13.6	14.1	18.0	14.7	21.0	19.4	16.6	11.6	9.4
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)