

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: STREETWORKS

Report Number: P397967

Luminaire Tested: **ARCH-S-PA1-70-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA1-70-727-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8606 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 74  
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

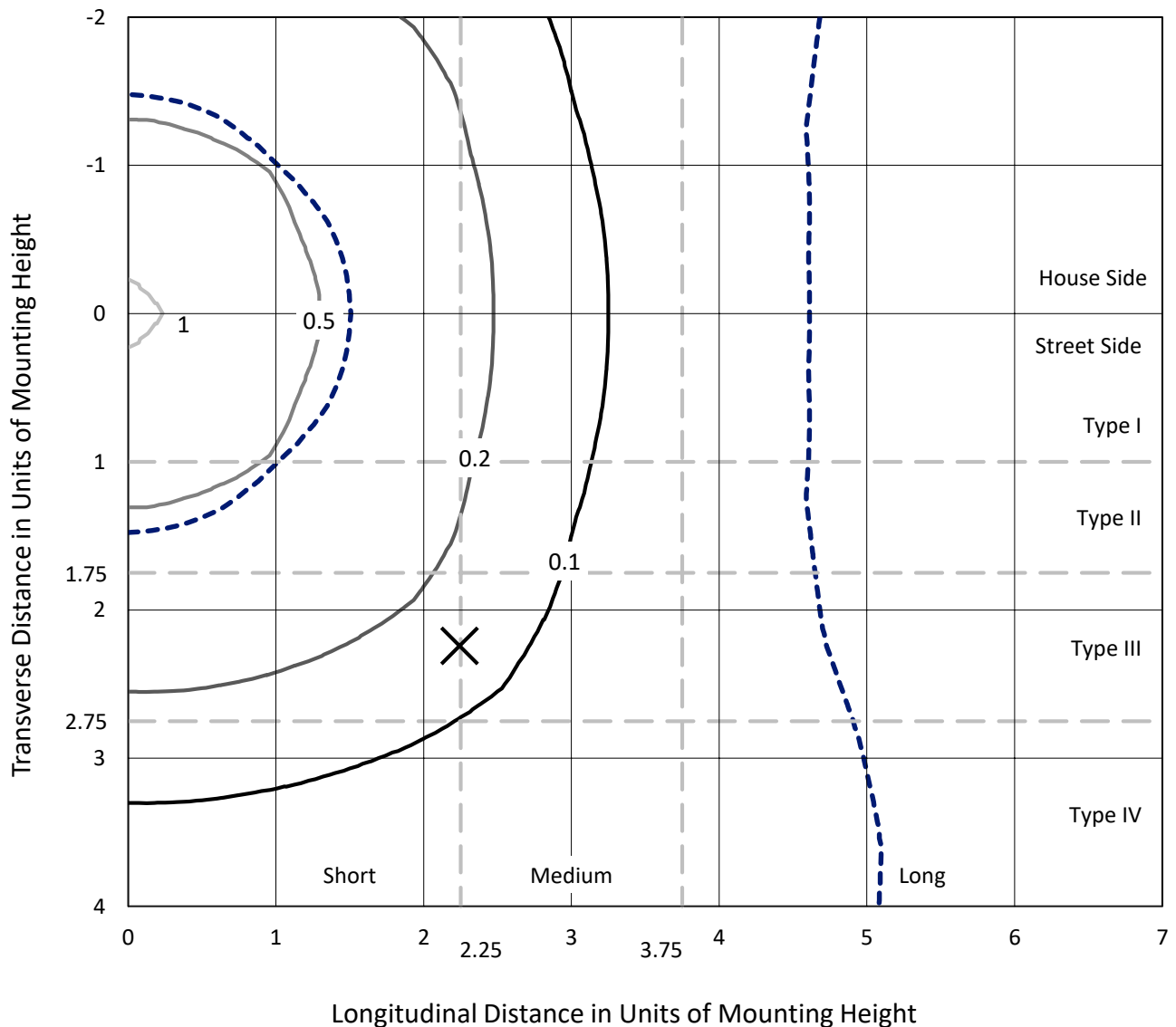


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

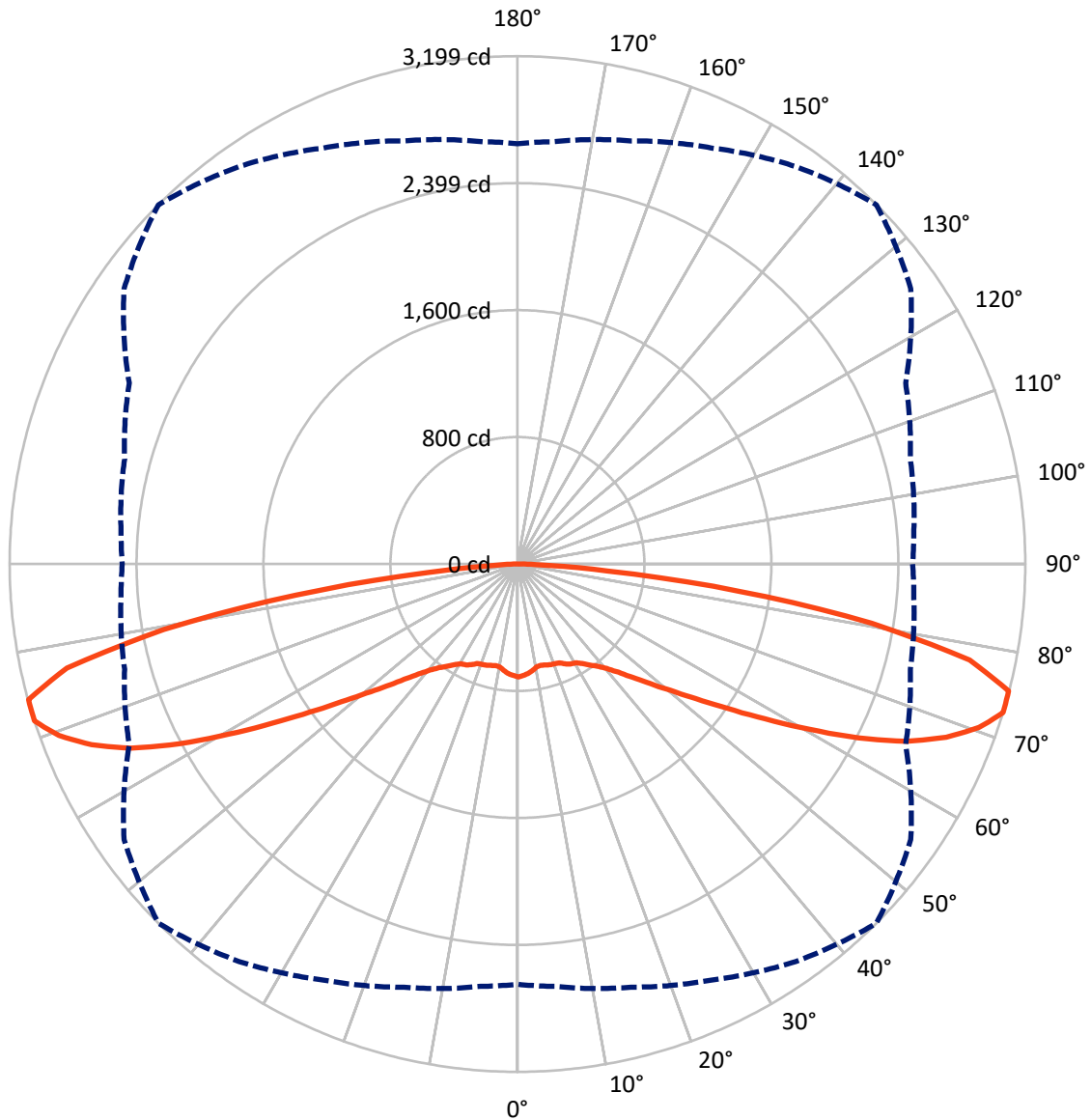


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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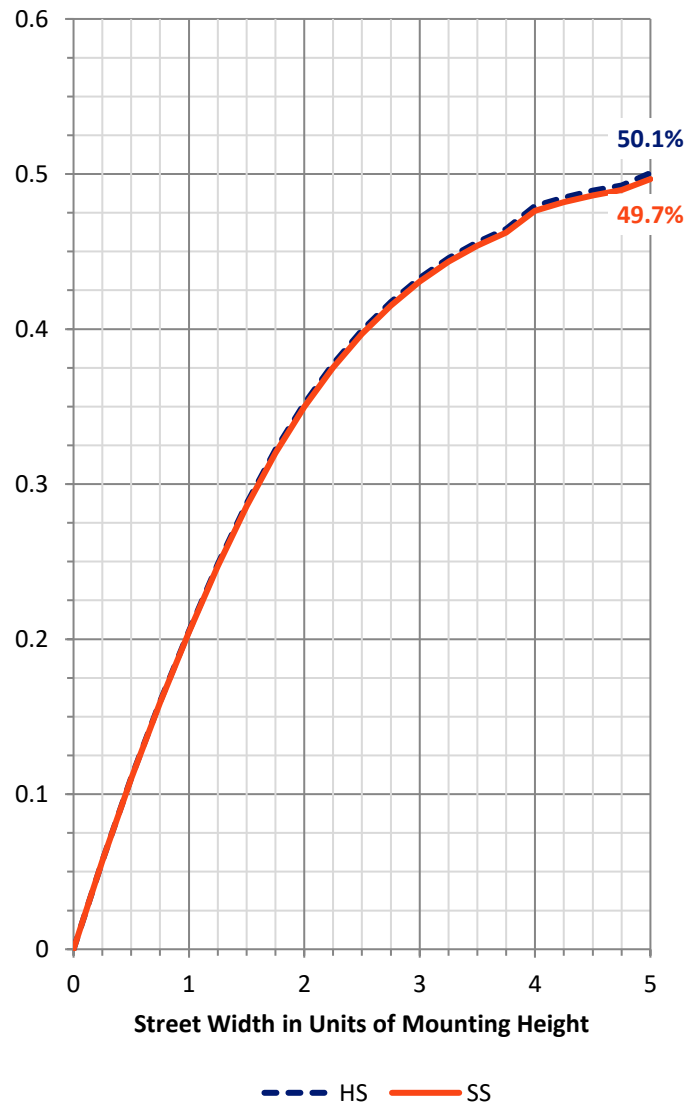
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4303.0	0.0	4303.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4303.0	0.0	4303.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8606.0	0.0	8606.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.3	0.8
10°-20°	189.6	2.2
20°-30°	322.1	3.7
30°-40°	491.3	5.7
40°-50°	808.9	9.4
50°-60°	1412.6	16.4
60°-70°	2368.3	27.5
70°-80°	2534.6	29.5
80°-90°	413.4	4.8
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°	8606.0	100.0
0°-180°	8606.0	100.0



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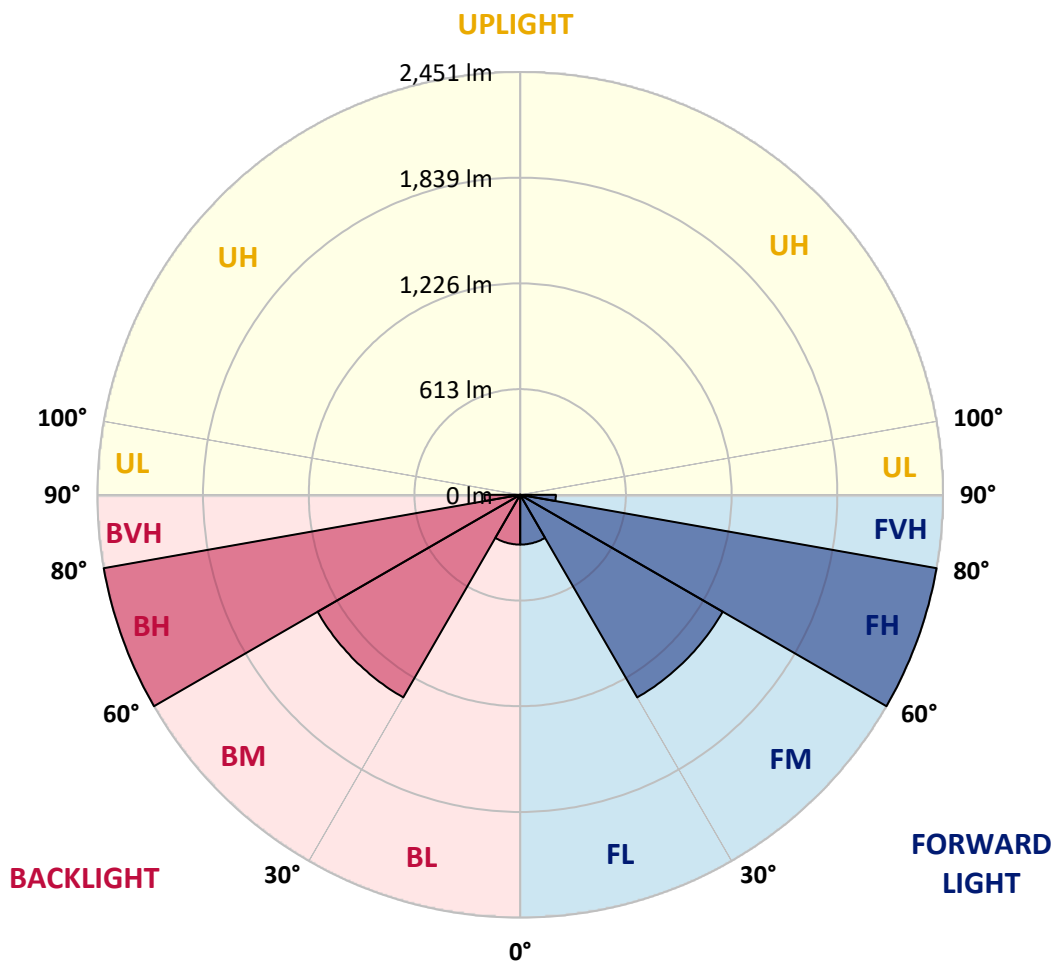
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.5	3.4			
FM	(30°-60°)	1356.4	15.8			
FH	(60°-80°)	2451.4	28.5			G2/5000
FVH	(80°-90°)	206.7	2.4			G2/225
BL	(0°-30°)	288.5	3.4	B1/500		
BM	(30°-60°)	1356.4	15.8	B2/2500		
BH	(60°-80°)	2451.4	28.5	B3/2500		G2/5000
BVH	(80°-90°)	206.7	2.4			G2/225
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°	712.2	712.2	712.2	712.2	712.2	712.2	712.2	712.2	712.2	712.2	712.2
2.5°	707.8	707.8	707.8	706.7	704.5	703.4	701.2	702.3	702.3	702.3	702.3
5°	699.0	699.0	697.9	696.8	694.6	693.5	691.3	693.5	693.5	693.5	693.5
7.5°	682.5	683.6	683.6	682.5	679.2	678.1	674.8	675.9	675.9	677.0	675.9
10°	673.7	673.7	672.6	667.1	661.6	659.4	658.3	661.6	664.9	668.2	668.2
12.5°	673.7	673.7	671.5	662.7	655.0	655.0	655.0	659.4	666.0	672.6	673.7
15°	677.0	677.0	672.6	662.7	658.3	659.4	659.4	663.8	671.5	680.3	681.4
17.5°	679.2	679.2	673.7	663.8	663.8	667.1	664.9	668.2	675.9	685.8	686.9
20°	682.5	682.5	674.8	667.1	667.1	670.4	670.4	673.7	680.3	690.2	691.3
22.5°	689.1	688.0	680.3	673.7	673.7	675.9	678.1	682.5	688.0	696.8	699.0
25°	696.8	696.8	690.2	689.1	691.3	696.8	695.7	694.6	696.8	704.5	707.8
27.5°	701.2	701.2	696.8	700.1	708.9	713.3	707.8	703.4	703.4	711.1	712.2
30°	715.5	714.4	710.0	712.2	719.8	722.0	718.8	713.3	716.6	725.3	726.4
32.5°	739.6	739.6	733.0	733.0	738.5	747.3	736.3	733.0	737.4	747.3	748.4
35°	777.0	777.0	768.2	763.8	768.2	780.3	763.8	762.7	770.4	781.4	782.5
37.5°	824.3	824.3	818.8	807.8	808.9	816.6	802.3	801.2	815.5	827.6	827.6
40°	883.6	886.9	881.4	868.2	863.8	864.9	853.9	855.0	871.5	885.8	885.8
42.5°	957.2	959.4	950.6	940.7	935.3	932.0	921.0	923.2	942.9	961.6	961.6
45°	1046.3	1047.4	1038.6	1026.5	1019.9	1017.7	1006.7	1012.2	1034.2	1053.9	1052.8
47.5°	1146.3	1147.4	1138.6	1126.5	1122.1	1125.4	1114.4	1114.4	1134.2	1150.7	1148.5
50°	1259.5	1261.7	1251.8	1246.3	1243.0	1251.8	1238.6	1226.5	1239.7	1256.2	1254.0
52.5°	1384.7	1390.2	1383.6	1385.8	1397.9	1408.9	1386.9	1360.6	1367.2	1378.2	1374.9
55°	1536.4	1543.0	1545.2	1552.9	1584.8	1603.5	1567.2	1523.2	1519.9	1521.0	1515.5
57.5°	1706.8	1711.2	1725.4	1743.0	1809.0	1838.6	1781.5	1705.7	1681.5	1667.2	1663.9
60°	1878.2	1885.9	1921.1	1957.3	2058.4	2112.3	2024.4	1896.9	1845.2	1818.9	1813.4
62.5°	2050.7	2066.1	2123.3	2184.8	2332.1	2412.3	2277.1	2092.5	2017.8	1984.8	1976.0
65°	2250.8	2269.4	2338.7	2416.7	2580.5	2693.7	2529.9	2294.7	2214.5	2170.5	2159.5
67.5°	2484.9	2504.6	2560.7	2647.5	2802.5	2913.5	2768.4	2501.3	2396.9	2340.9	2332.1
70°	2677.2	2694.8	2755.2	2843.1	2958.5	3084.9	2946.4	2666.2	2571.7	2532.1	2526.6
72.5°	2647.5	2670.6	2759.6	2891.5	3056.3	3199.2	3024.5	2698.1	2561.8	2506.8	2489.2
75°	2312.3	2337.6	2443.1	2681.6	2982.7	3195.9	2911.3	2486.0	2325.5	2279.3	2270.5
77.5°	1530.9	1555.1	1733.1	2109.0	2604.6	2912.4	2569.5	2082.6	1824.4	1713.4	1706.8
80°	618.7	649.5	819.9	1218.8	1846.3	2264.0	1905.7	1333.1	899.0	725.3	690.2
82.5°	144.0	171.4	249.5	449.5	945.1	1410.0	1027.6	497.8	289.0	205.5	184.6
85°	60.4	61.5	106.6	146.2	295.6	569.3	336.3	181.3	147.3	107.7	105.5
87.5°	23.1	24.2	51.7	61.5	94.5	107.7	114.3	93.4	86.8	53.9	51.7
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)