

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: P572850

Luminaire Tested: **ARCH-S-PA2-120-760-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572850  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-120-760-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16128 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

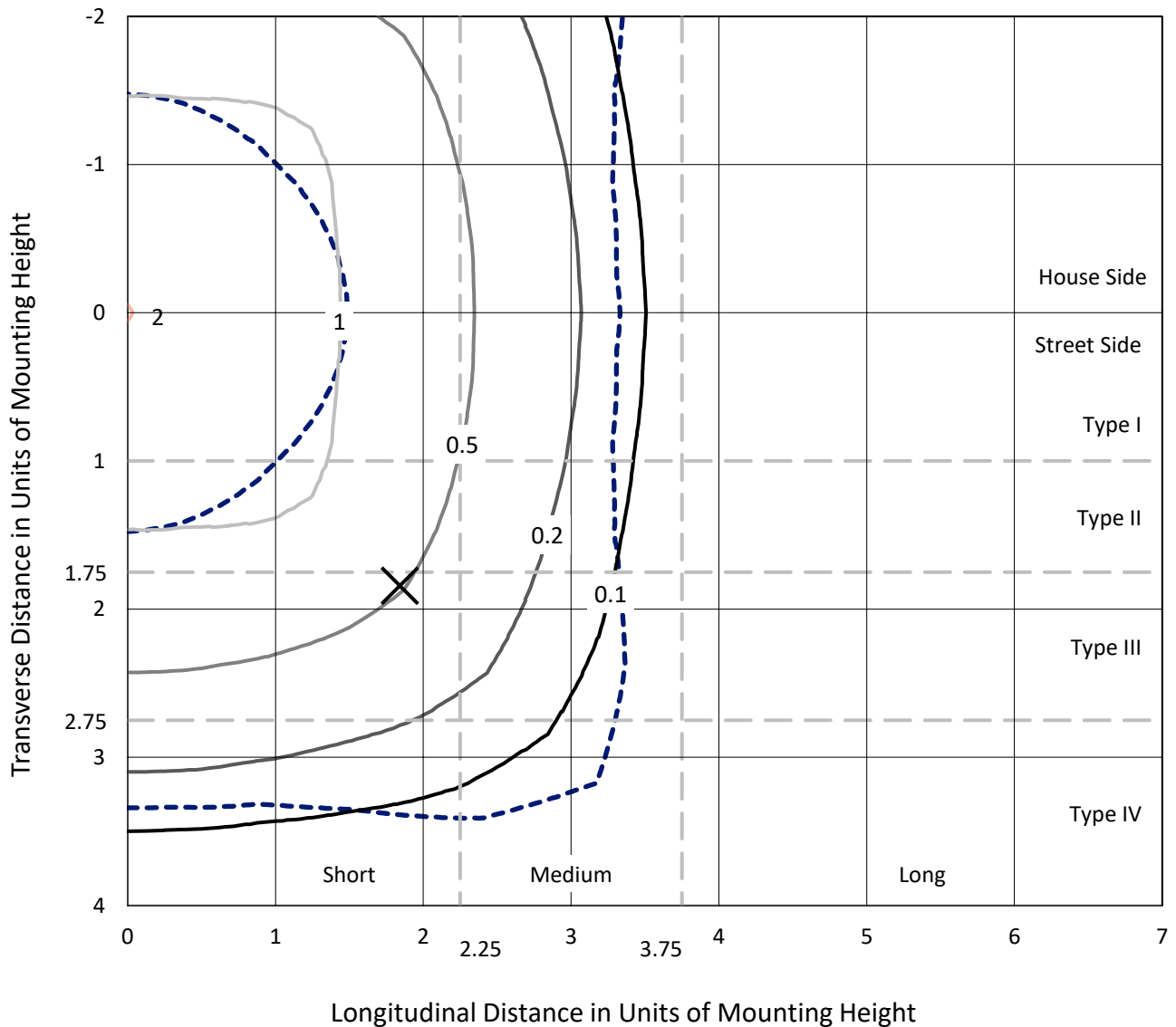
Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

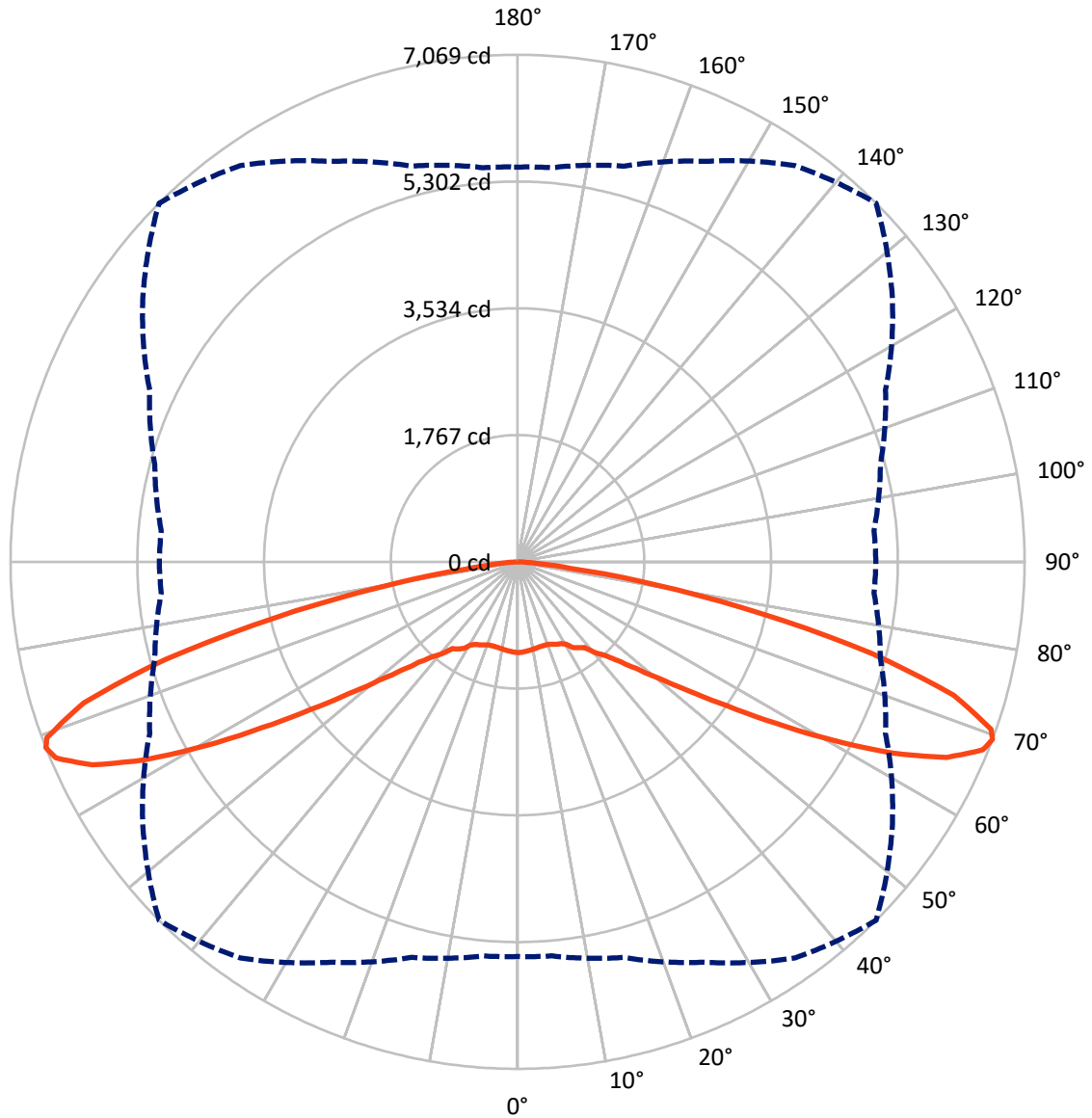
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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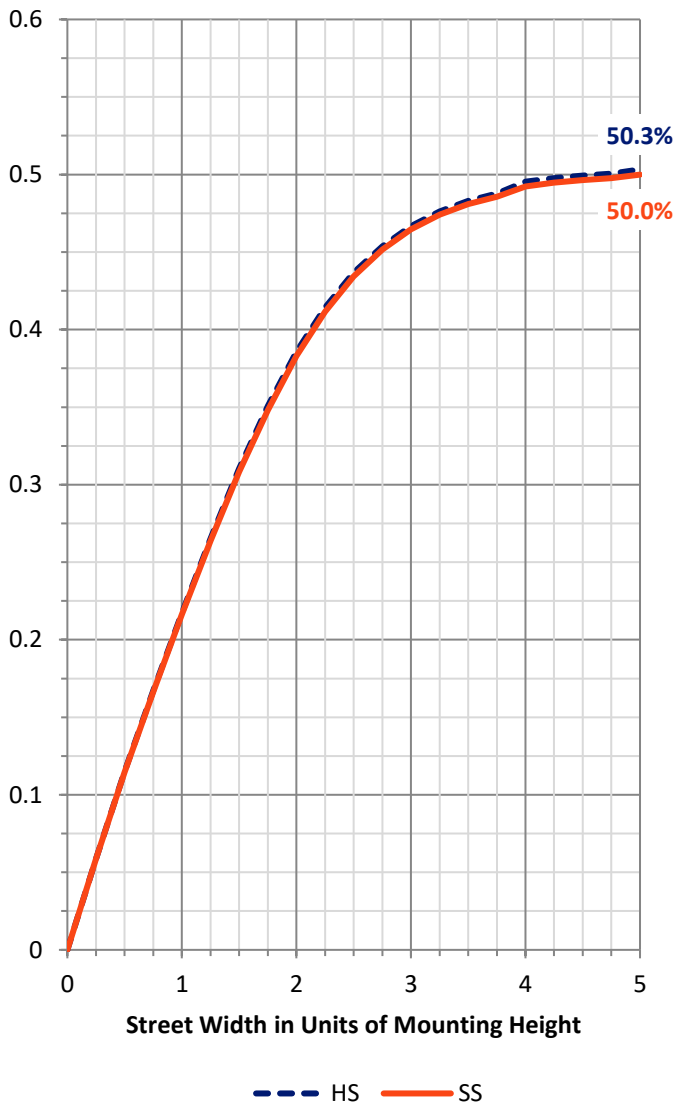
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8064.0	0.0	8064.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8064.0	0.0	8064.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16128.0	0.0	16128.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	0.7
10°-20°	350.6	2.2
20°-30°	594.5	3.7
30°-40°	924.3	5.7
40°-50°	1586.6	9.8
50°-60°	3156.7	19.6
60°-70°	5623.3	34.9
70°-80°	3541.5	22.0
80°-90°	231.3	1.4
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°	16128.0	100.0
0°-180°	16128.0	100.0



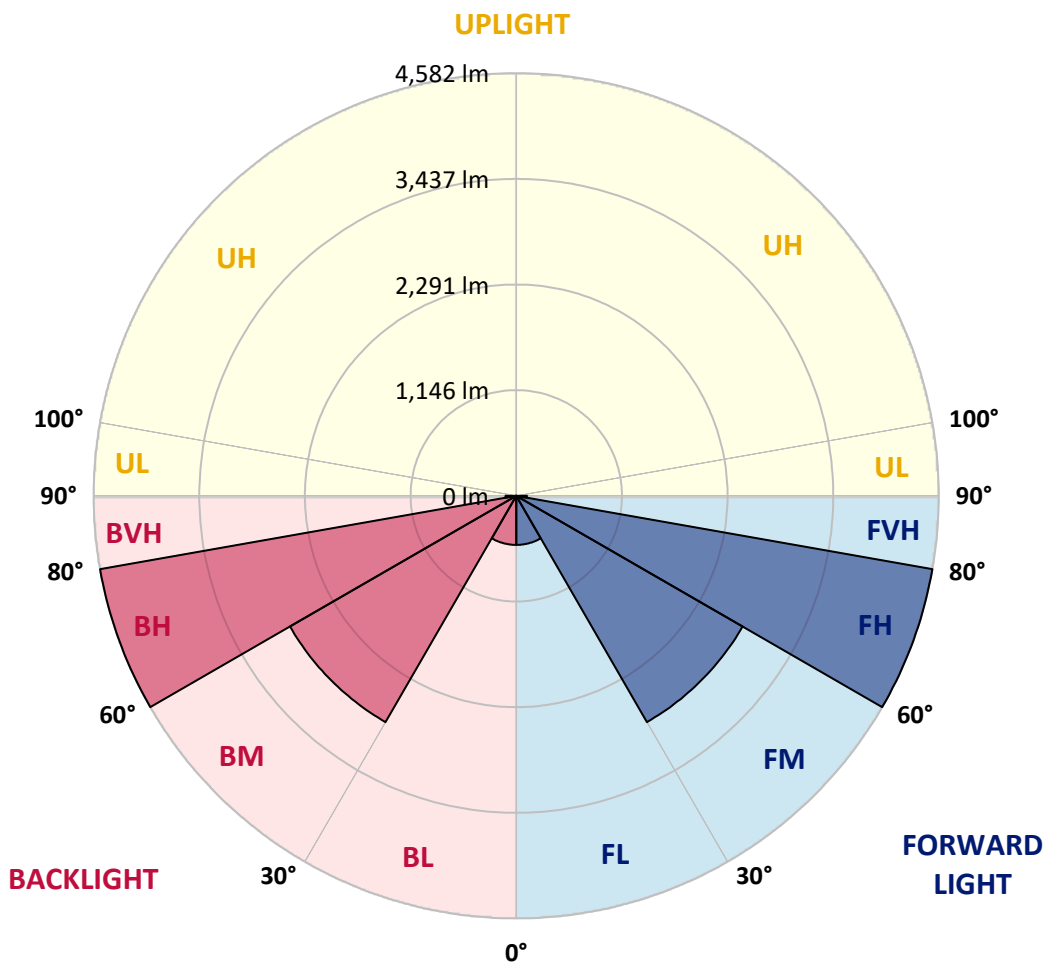
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	532.1	3.3			
FM	(30°-60°)	2833.8	17.6			
FH	(60°-80°)	4582.4	28.4			G2/5000
FVH	(80°-90°)	115.6	0.7			G2/225
BL	(0°-30°)	532.1	3.3	B2/1000		
BM	(30°-60°)	2833.8	17.6	B3/5000		
BH	(60°-80°)	4582.4	28.4	B4/5000		G2/5000
BVH	(80°-90°)	115.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6	1265.6
2.5°	1274.1	1269.8	1269.8	1265.6	1261.4	1261.4	1261.4	1257.1	1261.4	1261.4	1261.4
5°	1269.8	1265.6	1261.4	1257.1	1257.1	1252.9	1257.1	1252.9	1252.9	1252.9	1252.9
7.5°	1257.1	1257.1	1248.7	1248.7	1244.4	1244.4	1240.2	1240.2	1240.2	1236.0	1236.0
10°	1257.1	1252.9	1248.7	1240.2	1236.0	1236.0	1236.0	1231.7	1236.0	1236.0	1236.0
12.5°	1257.1	1257.1	1244.4	1236.0	1227.5	1227.5	1227.5	1227.5	1236.0	1240.2	1240.2
15°	1265.6	1261.4	1248.7	1231.7	1223.3	1223.3	1223.3	1227.5	1236.0	1244.4	1244.4
17.5°	1269.8	1261.4	1244.4	1227.5	1223.3	1223.3	1223.3	1227.5	1240.2	1248.7	1252.9
20°	1274.1	1269.8	1248.7	1231.7	1227.5	1227.5	1227.5	1227.5	1240.2	1252.9	1257.1
22.5°	1286.8	1282.5	1261.4	1248.7	1244.4	1244.4	1244.4	1244.4	1257.1	1274.1	1274.1
25°	1303.7	1295.2	1274.1	1265.6	1265.6	1274.1	1274.1	1265.6	1278.3	1291.0	1295.2
27.5°	1333.3	1324.8	1303.7	1295.2	1291.0	1291.0	1291.0	1291.0	1299.5	1320.6	1320.6
30°	1358.7	1354.5	1346.0	1346.0	1341.8	1333.3	1333.3	1341.8	1346.0	1354.5	1358.7
32.5°	1392.6	1384.1	1375.6	1375.6	1401.0	1426.4	1405.3	1371.4	1367.2	1371.4	1375.6
35°	1464.5	1456.1	1434.9	1422.2	1447.6	1473.0	1439.1	1418.0	1430.7	1443.4	1443.4
37.5°	1566.1	1561.9	1544.9	1519.6	1511.1	1515.3	1502.6	1519.6	1553.4	1578.8	1583.0
40°	1671.9	1667.7	1650.8	1638.1	1642.3	1663.5	1655.0	1638.1	1659.2	1676.2	1676.2
42.5°	1837.0	1820.1	1794.7	1760.8	1765.1	1782.0	1760.8	1777.8	1807.4	1837.0	1841.2
45°	2057.1	2040.2	2006.3	1976.7	1955.5	1964.0	1964.0	1993.6	2027.5	2061.3	2074.0
47.5°	2294.1	2289.9	2256.1	2230.7	2209.5	2222.2	2222.2	2222.2	2277.2	2311.1	2311.1
50°	2586.2	2573.5	2573.5	2552.3	2543.9	2548.1	2531.2	2548.1	2573.5	2582.0	2569.3
52.5°	2933.3	2920.6	2929.1	2937.5	2958.7	2988.3	2946.0	2941.8	2929.1	2916.4	2912.1
55°	3348.1	3360.8	3394.7	3449.7	3483.5	3542.8	3479.3	3403.1	3369.3	3335.4	3310.0
57.5°	3843.3	3864.5	3915.3	4046.5	4190.4	4245.4	4135.4	3995.7	3877.2	3779.8	3801.0
60°	4490.9	4478.2	4562.9	4740.7	4943.8	5053.9	4880.3	4651.8	4461.3	4414.7	4427.4
62.5°	5180.9	5206.3	5265.5	5502.6	5756.5	5875.0	5663.4	5324.8	5079.3	4952.3	4952.3
65°	5612.6	5629.5	5794.6	6129.0	6412.6	6573.4	6272.9	5781.9	5430.6	5219.0	5206.3
67.5°	5676.1	5693.0	5879.3	6306.8	6772.4	6996.7	6476.1	5836.9	5426.4	5168.2	5159.7
69°	5502.6	5515.3	5710.0	6158.6	6742.8	7068.7	6378.7	5659.2	5235.9	4986.2	4994.6
70°	5252.8	5303.6	5451.8	5908.9	6586.1	7005.2	6201.0	5460.2	5020.0	4821.1	4787.2
72.5°	4118.5	4152.3	4397.8	4965.0	5879.3	6357.6	5447.5	4622.2	4173.5	3966.1	4016.9
75°	2332.2	2323.8	2637.0	3449.7	4533.3	5092.0	4287.8	3326.9	2675.1	2425.4	2459.2
77.5°	888.9	927.0	1138.6	1769.3	2848.6	3479.3	2844.4	1777.8	1244.4	969.3	922.7
80°	287.8	304.8	402.1	643.4	1214.8	1964.0	1329.1	685.7	431.7	325.9	304.8
82.5°	114.3	127.0	152.4	215.9	410.6	740.7	448.7	249.7	186.2	152.4	139.7
85°	63.5	59.3	80.4	97.4	139.7	211.6	152.4	118.5	101.6	72.0	67.7
87.5°	21.2	21.2	33.9	33.9	38.1	33.9	38.1	42.3	42.3	25.4	21.2
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)