

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: P573210

Luminaire Tested: **ARCH-S-PA2-50-727-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573210  
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-PA2-50-727-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6915 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

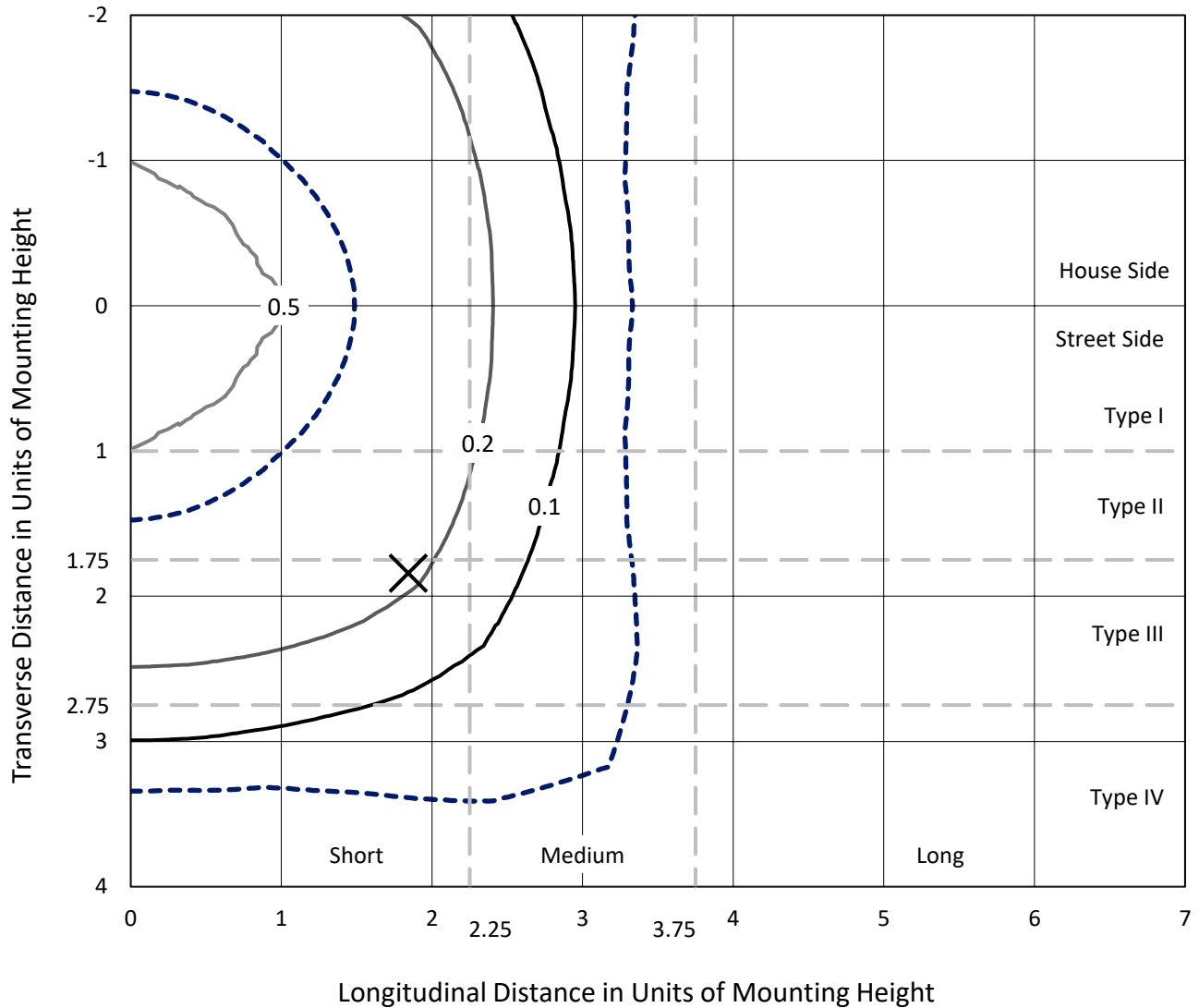
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

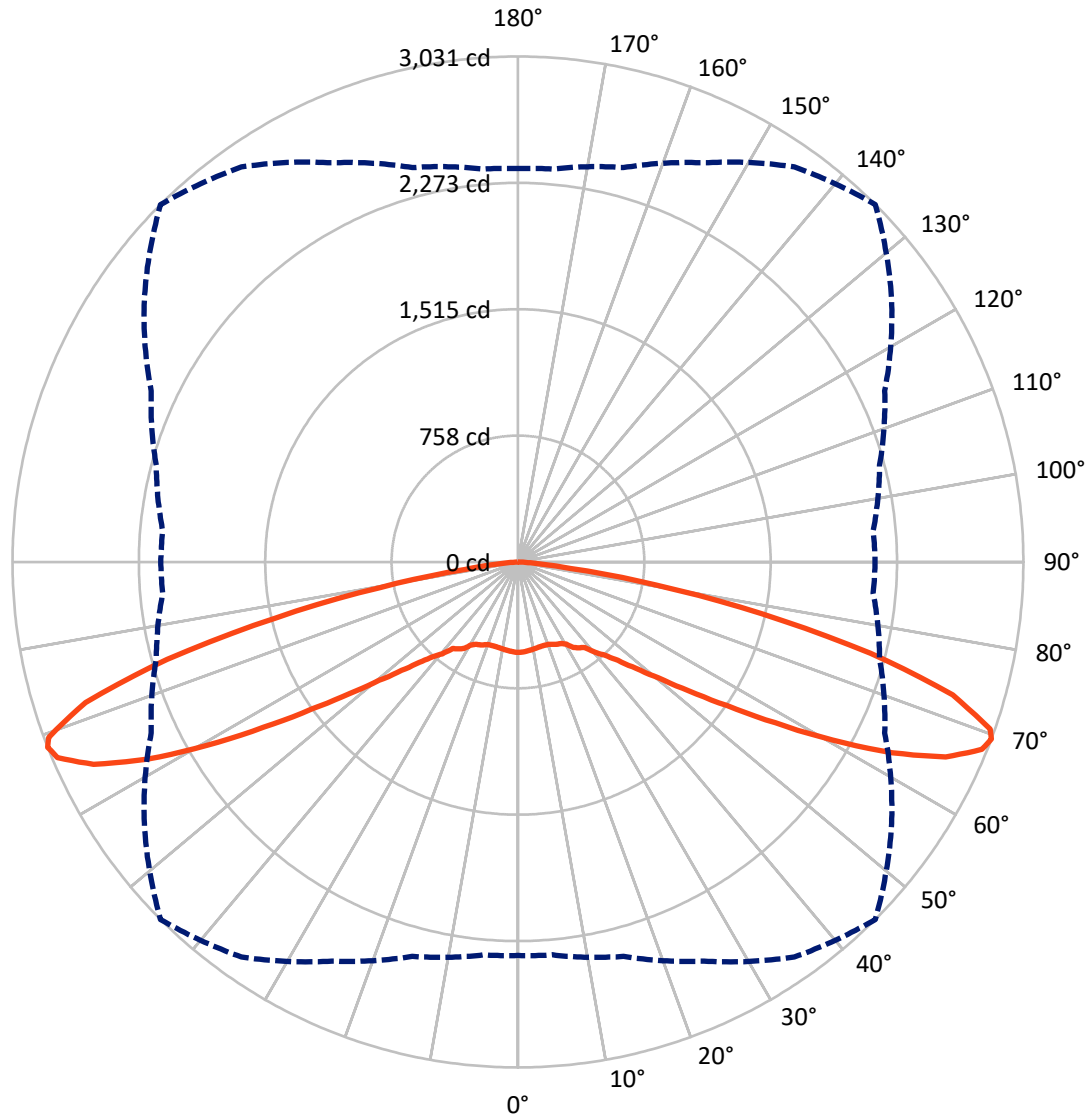
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 69-Deg Vertical

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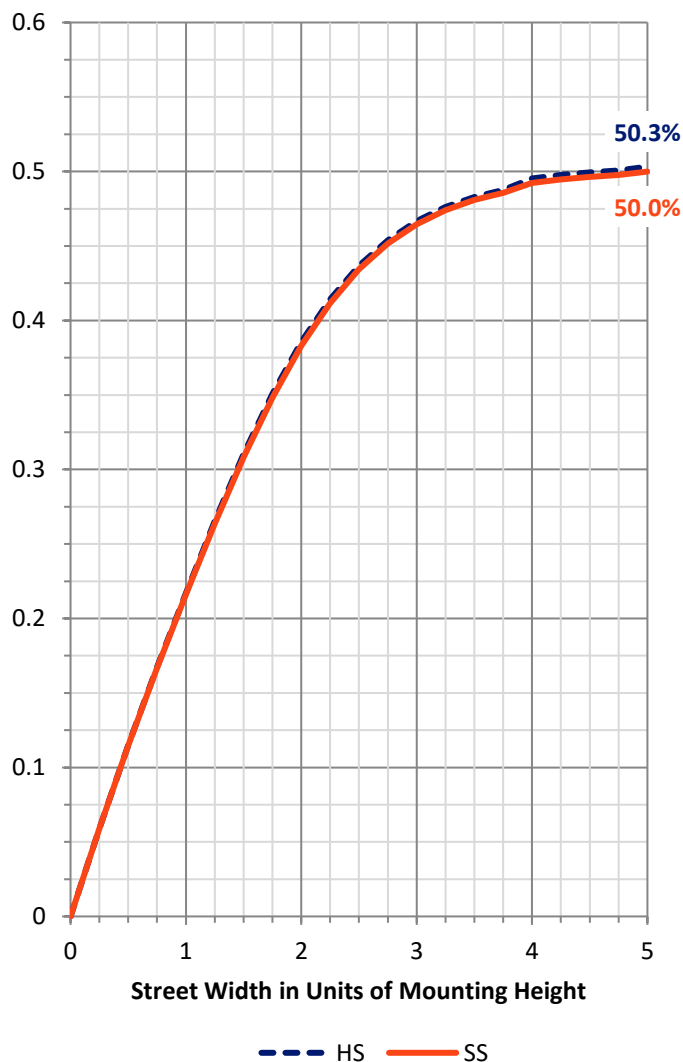
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3457.5	0.0	3457.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3457.5	0.0	3457.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6915.0	0.0	6915.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.1	0.7
10°-20°	150.3	2.2
20°-30°	254.9	3.7
30°-40°	396.3	5.7
40°-50°	680.3	9.8
50°-60°	1353.5	19.6
60°-70°	2411.0	34.9
70°-80°	1518.4	22.0
80°-90°	99.2	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°	6915.0	100.0
0°-180°	6915.0	100.0

**Coefficient of Utilization**

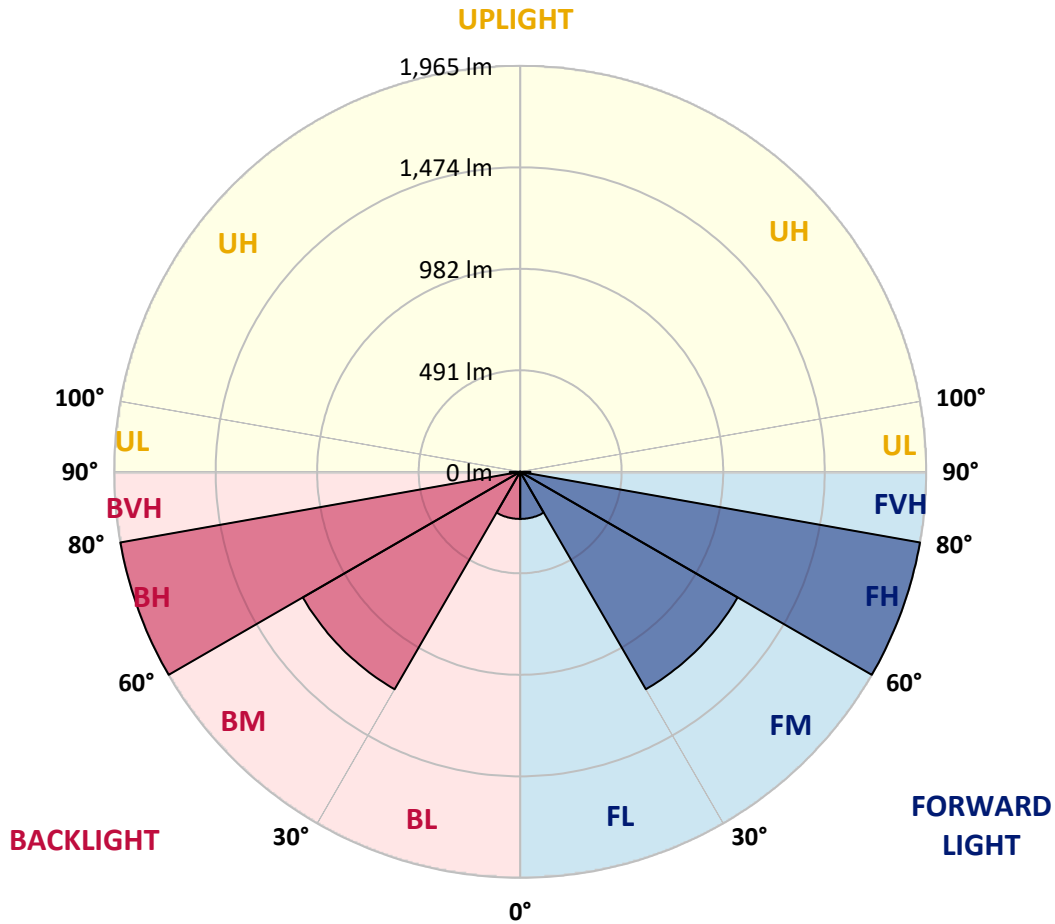


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.2	3.3			
FM (30°-60°)	1215.0	17.6			
FH (60°-80°)	1964.7	28.4			G2/5000
FVH (80°-90°)	49.6	0.7			G1/100
BL (0°-30°)	228.2	3.3	B1/500		
BM (30°-60°)	1215.0	17.6	B2/2500		
BH (60°-80°)	1964.7	28.4	B3/2500		G2/5000
BVH (80°-90°)	49.6	0.7			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°	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6	542.6
2.5°	546.3	544.4	544.4	542.6	540.8	540.8	540.8	539.0	540.8	540.8	540.8
5°	544.4	542.6	540.8	539.0	539.0	537.2	539.0	537.2	537.2	537.2	537.2
7.5°	539.0	539.0	535.4	535.4	533.6	533.6	531.7	531.7	531.7	529.9	529.9
10°	539.0	537.2	535.4	531.7	529.9	529.9	529.9	528.1	529.9	529.9	529.9
12.5°	539.0	539.0	533.6	529.9	526.3	526.3	526.3	526.3	529.9	531.7	531.7
15°	542.6	540.8	535.4	528.1	524.5	524.5	524.5	526.3	529.9	533.6	533.6
17.5°	544.4	540.8	533.6	526.3	524.5	524.5	524.5	526.3	531.7	535.4	537.2
20°	546.3	544.4	535.4	528.1	526.3	526.3	526.3	526.3	531.7	537.2	539.0
22.5°	551.7	549.9	540.8	535.4	533.6	533.6	533.6	533.6	539.0	546.3	546.3
25°	559.0	555.3	546.3	542.6	542.6	546.3	546.3	542.6	548.1	553.5	555.3
27.5°	571.7	568.0	559.0	555.3	553.5	553.5	553.5	553.5	557.1	566.2	566.2
30°	582.6	580.7	577.1	577.1	575.3	571.7	571.7	575.3	577.1	580.7	582.6
32.5°	597.1	593.4	589.8	589.8	600.7	611.6	602.5	588.0	586.2	588.0	589.8
35°	627.9	624.3	615.2	609.8	620.7	631.6	617.0	608.0	613.4	618.9	618.9
37.5°	671.5	669.7	662.4	651.5	647.9	649.7	644.3	651.5	666.0	676.9	678.7
40°	716.9	715.0	707.8	702.3	704.1	713.2	709.6	702.3	711.4	718.7	718.7
42.5°	787.6	780.4	769.5	755.0	756.8	764.0	755.0	762.2	774.9	787.6	789.4
45°	882.0	874.7	860.2	847.5	838.4	842.1	842.1	854.8	869.3	883.8	889.3
47.5°	983.6	981.8	967.3	956.4	947.3	952.8	952.8	952.8	976.4	990.9	990.9
50°	1108.9	1103.4	1103.4	1094.3	1090.7	1092.5	1085.3	1092.5	1103.4	1107.0	1101.6
52.5°	1257.7	1252.2	1255.9	1259.5	1268.6	1281.3	1263.1	1261.3	1255.9	1250.4	1248.6
55°	1435.5	1441.0	1455.5	1479.1	1493.6	1519.0	1491.8	1459.1	1444.6	1430.1	1419.2
57.5°	1647.9	1656.9	1678.7	1735.0	1796.7	1820.3	1773.1	1713.2	1662.4	1620.6	1629.7
60°	1925.5	1920.1	1956.4	2032.6	2119.7	2166.9	2092.5	1994.5	1912.8	1892.9	1898.3
62.5°	2221.3	2232.2	2257.6	2359.3	2468.2	2519.0	2428.2	2283.0	2177.8	2123.3	2123.3
65°	2406.4	2413.7	2484.5	2627.9	2749.5	2818.4	2689.6	2479.0	2328.4	2237.7	2232.2
67.5°	2433.7	2440.9	2520.8	2704.1	2903.7	2999.9	2776.7	2502.6	2326.6	2215.9	2212.3
69°	2359.3	2364.7	2448.2	2640.6	2891.0	3030.7	2734.9	2426.4	2244.9	2137.9	2141.5
70°	2252.2	2274.0	2337.5	2533.5	2823.9	3003.5	2658.7	2341.1	2152.4	2067.1	2052.6
72.5°	1765.8	1780.3	1885.6	2128.8	2520.8	2725.9	2335.7	1981.8	1789.4	1700.5	1722.3
75°	1000.0	996.3	1130.6	1479.1	1943.7	2183.2	1838.4	1426.4	1147.0	1039.9	1054.4
77.5°	381.1	397.4	488.2	758.6	1221.4	1491.8	1219.6	762.2	533.6	415.6	395.6
80°	123.4	130.7	172.4	275.9	520.9	842.1	569.9	294.0	185.1	139.7	130.7
82.5°	49.0	54.4	65.3	92.6	176.0	317.6	192.4	107.1	79.9	65.3	59.9
85°	27.2	25.4	34.5	41.7	59.9	90.7	65.3	50.8	43.6	30.9	29.0
87.5°	9.1	9.1	14.5	14.5	16.3	14.5	16.3	18.1	18.1	10.9	9.1
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)