

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: P573300

Luminaire Tested: **ARCH-S-PA2-60-730-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573300  
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-PA2-60-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8889 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

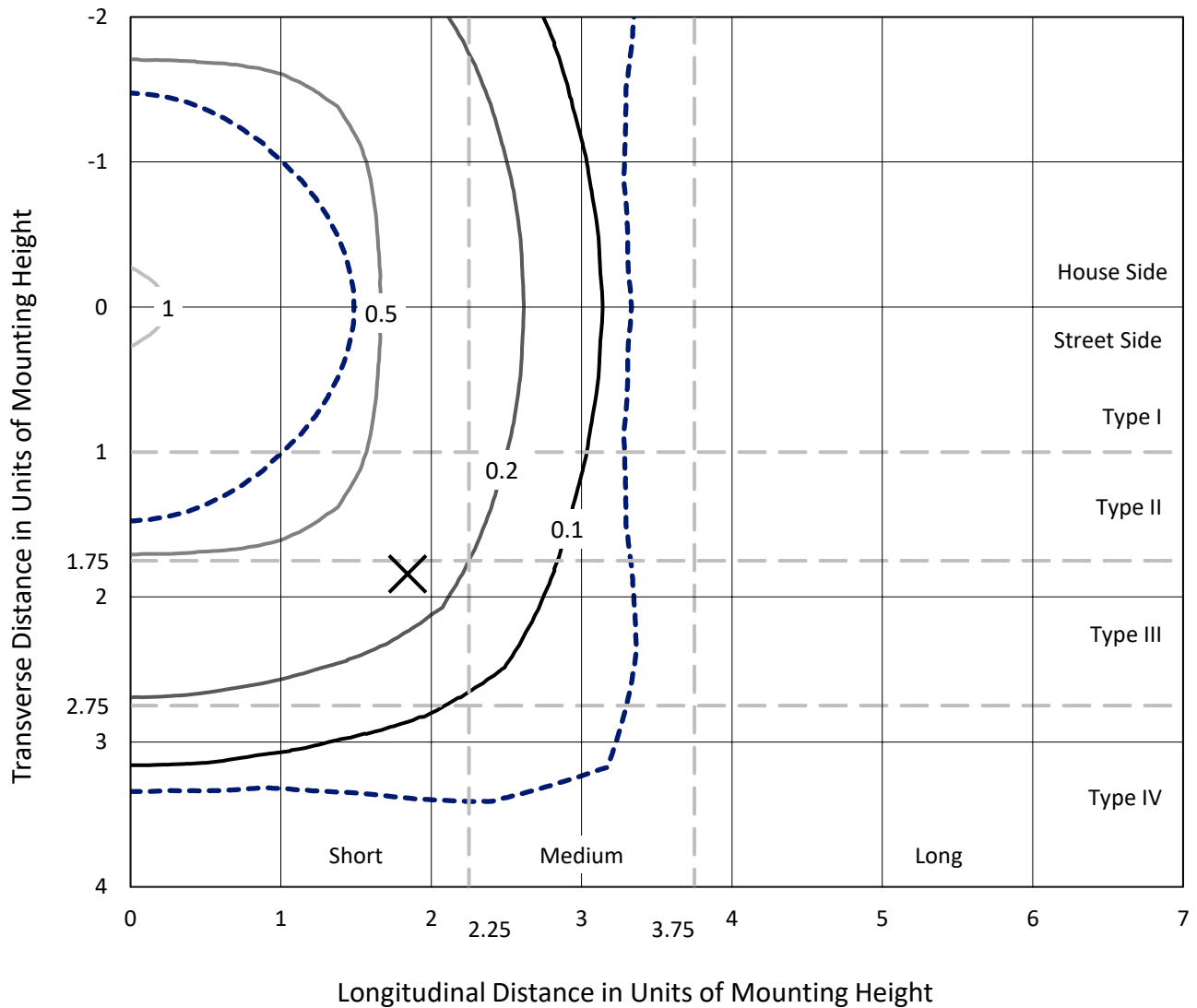
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

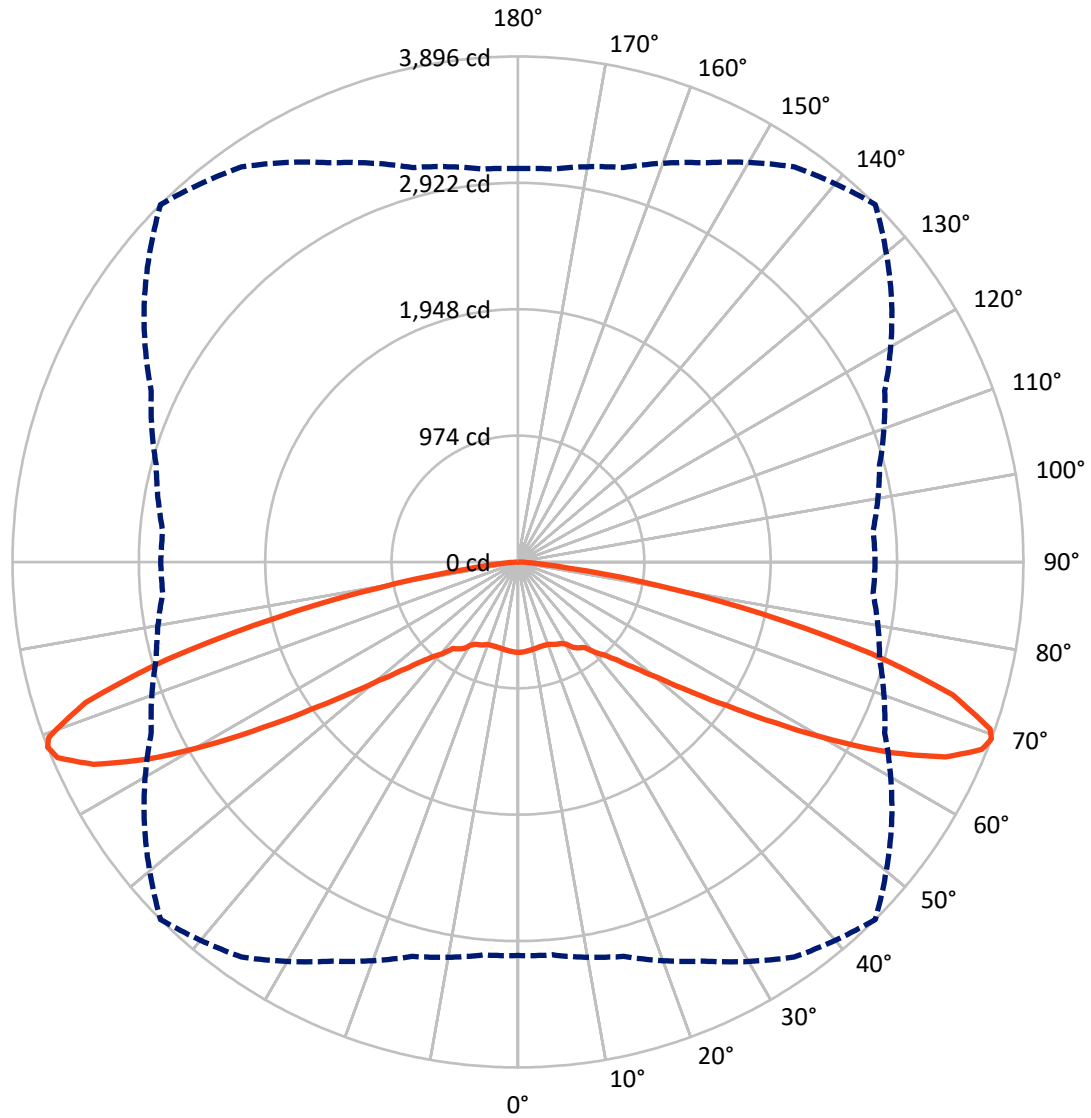
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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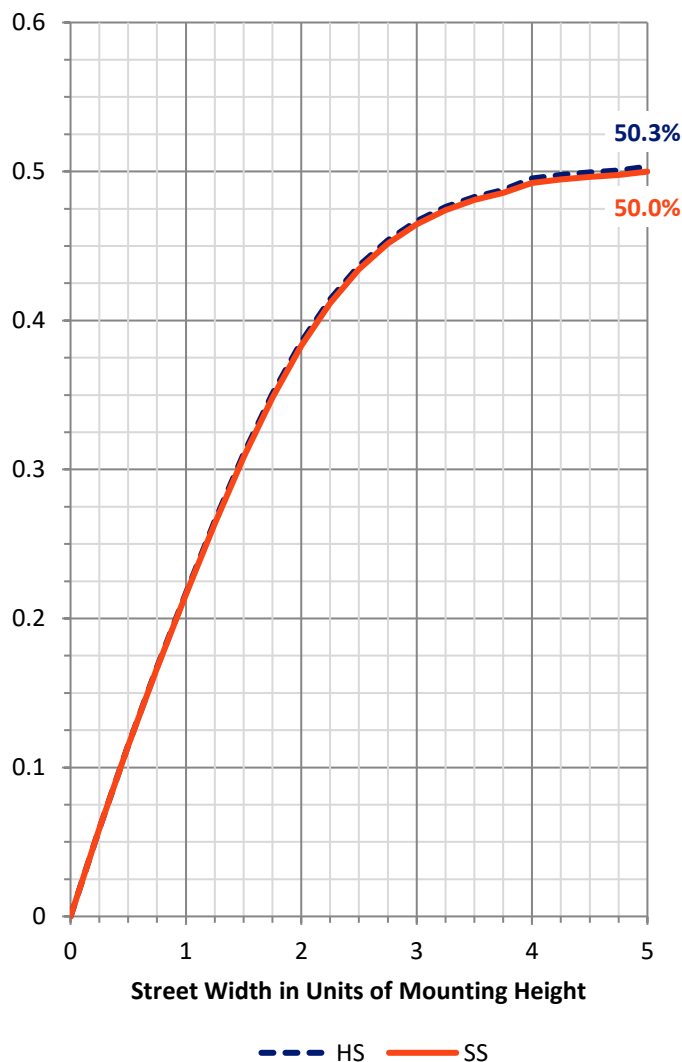
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4444.5	0.0	4444.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4444.5	0.0	4444.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8889.0	0.0	8889.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.7	0.7
10°-20°	193.2	2.2
20°-30°	327.6	3.7
30°-40°	509.4	5.7
40°-50°	874.5	9.8
50°-60°	1739.9	19.6
60°-70°	3099.3	34.9
70°-80°	1951.9	22.0
80°-90°	127.5	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°	8889.0	100.0
0°-180°	8889.0	100.0

**Coefficient of Utilization**



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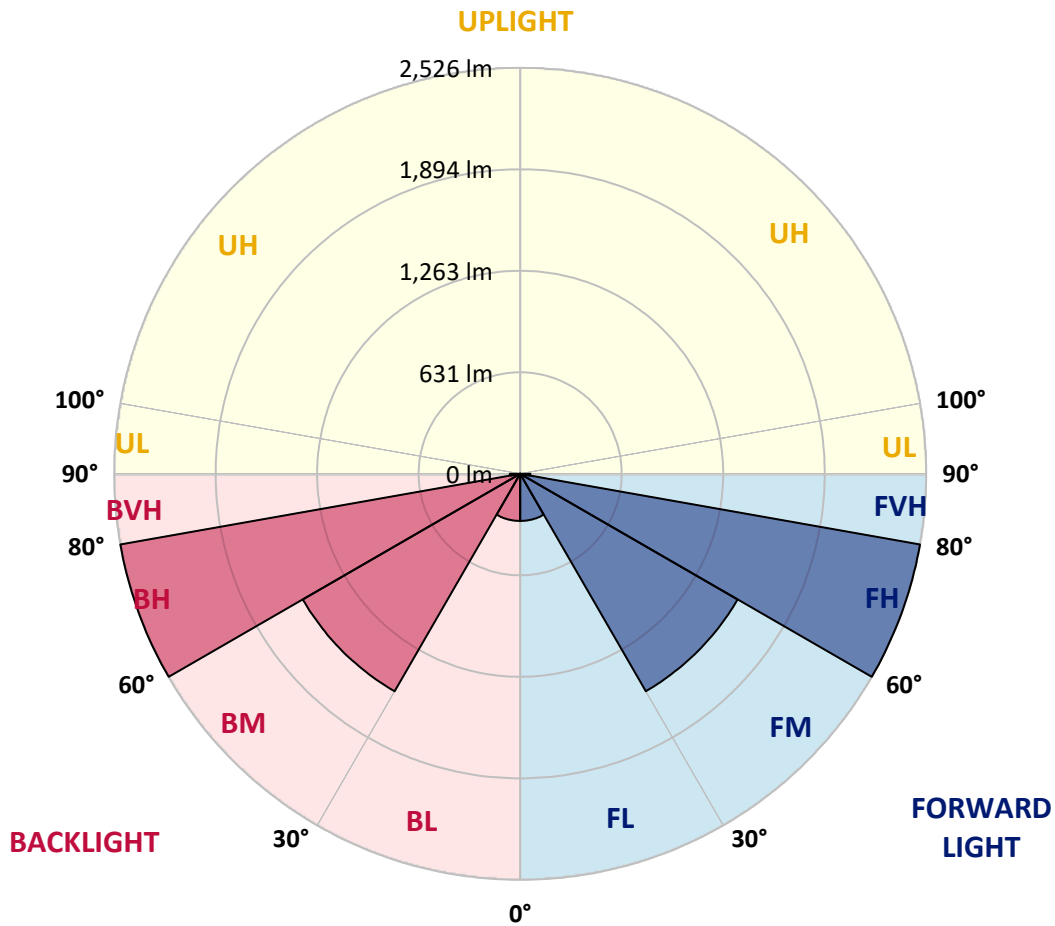
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	293.3	3.3			
FM (30°-60°)	1561.9	17.6			
FH (60°-80°)	2525.6	28.4			G2/5000
FVH (80°-90°)	63.7	0.7			G1/100
BL (0°-30°)	293.3	3.3	B1/500		
BM (30°-60°)	1561.9	17.6	B2/2500		
BH (60°-80°)	2525.6	28.4	B4/5000		G2/5000
BVH (80°-90°)	63.7	0.7			G1/100
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°	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5	697.5
2.5°	702.2	699.9	699.9	697.5	695.2	695.2	695.2	692.9	695.2	695.2	695.2
5°	699.9	697.5	695.2	692.9	692.9	690.5	692.9	690.5	690.5	690.5	690.5
7.5°	692.9	692.9	688.2	688.2	685.9	685.9	683.5	683.5	683.5	681.2	681.2
10°	692.9	690.5	688.2	683.5	681.2	681.2	681.2	678.9	681.2	681.2	681.2
12.5°	692.9	692.9	685.9	681.2	676.5	676.5	676.5	676.5	681.2	683.5	683.5
15°	697.5	695.2	688.2	678.9	674.2	674.2	674.2	676.5	681.2	685.9	685.9
17.5°	699.9	695.2	685.9	676.5	674.2	674.2	674.2	676.5	683.5	688.2	690.5
20°	702.2	699.9	688.2	678.9	676.5	676.5	676.5	676.5	683.5	690.5	692.9
22.5°	709.2	706.9	695.2	688.2	685.9	688.2	685.9	685.9	692.9	702.2	702.2
25°	718.5	713.9	702.2	697.5	697.5	702.2	702.2	697.5	704.5	711.5	713.9
27.5°	734.9	730.2	718.5	713.9	711.5	711.5	711.5	711.5	716.2	727.9	727.9
30°	748.9	746.5	741.9	741.9	739.5	734.9	734.9	739.5	741.9	746.5	748.9
32.5°	767.5	762.9	758.2	758.2	772.2	786.2	774.5	755.9	753.5	755.9	758.2
35°	807.2	802.5	790.8	783.9	797.8	811.8	793.2	781.5	788.5	795.5	795.5
37.5°	863.2	860.8	851.5	837.5	832.8	835.2	828.2	837.5	856.2	870.2	872.5
40°	921.5	919.2	909.8	902.8	905.2	916.8	912.2	902.8	914.5	923.8	923.8
42.5°	1012.5	1003.1	989.1	970.5	972.8	982.1	970.5	979.8	996.1	1012.5	1014.8
45°	1133.8	1124.5	1105.8	1089.5	1077.8	1082.5	1082.5	1098.8	1117.5	1136.1	1143.1
47.5°	1264.4	1262.1	1243.4	1229.4	1217.8	1224.8	1224.8	1224.8	1255.1	1273.8	1273.8
50°	1425.4	1418.4	1418.4	1406.7	1402.1	1404.4	1395.1	1404.4	1418.4	1423.1	1416.1
52.5°	1616.7	1609.7	1614.4	1619.0	1630.7	1647.0	1623.7	1621.4	1614.4	1607.4	1605.0
55°	1845.3	1852.3	1871.0	1901.3	1920.0	1952.6	1917.6	1875.6	1857.0	1838.3	1824.3
57.5°	2118.3	2129.9	2157.9	2230.2	2309.6	2339.9	2279.2	2202.2	2136.9	2083.3	2094.9
60°	2475.2	2468.2	2514.9	2612.8	2724.8	2785.5	2689.8	2563.8	2458.9	2433.2	2440.2
62.5°	2855.5	2869.5	2902.1	3032.8	3172.7	3238.0	3121.4	2934.8	2799.5	2729.5	2729.5
65°	3093.4	3102.7	3193.7	3378.0	3534.3	3623.0	3457.3	3186.7	2993.1	2876.5	2869.5
67.5°	3128.4	3137.7	3240.4	3476.0	3732.6	3856.3	3569.3	3217.1	2990.8	2848.5	2843.8
69°	3032.8	3039.8	3147.1	3394.4	3716.3	3895.9	3515.7	3119.1	2885.8	2748.1	2752.8
70°	2895.1	2923.1	3004.8	3256.7	3630.0	3860.9	3417.7	3009.4	2766.8	2657.2	2638.5
72.5°	2269.9	2288.6	2423.9	2736.5	3240.4	3504.0	3002.4	2547.5	2300.2	2185.9	2213.9
75°	1285.4	1280.8	1453.4	1901.3	2498.5	2806.5	2363.2	1833.7	1474.4	1336.7	1355.4
77.5°	489.9	510.9	627.5	975.1	1570.0	1917.6	1567.7	979.8	685.9	534.2	508.6
80°	158.6	168.0	221.6	354.6	669.5	1082.5	732.5	377.9	238.0	179.6	168.0
82.5°	63.0	70.0	84.0	119.0	226.3	408.3	247.3	137.6	102.6	84.0	77.0
85°	35.0	32.7	44.3	53.7	77.0	116.6	84.0	65.3	56.0	39.7	37.3
87.5°	11.7	11.7	18.7	18.7	21.0	18.7	21.0	23.3	23.3	14.0	11.7
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)