

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: P572697

Luminaire Tested: **ARCH-S-PA2-100-827-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572697  
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-PA2-100-827-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10547 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

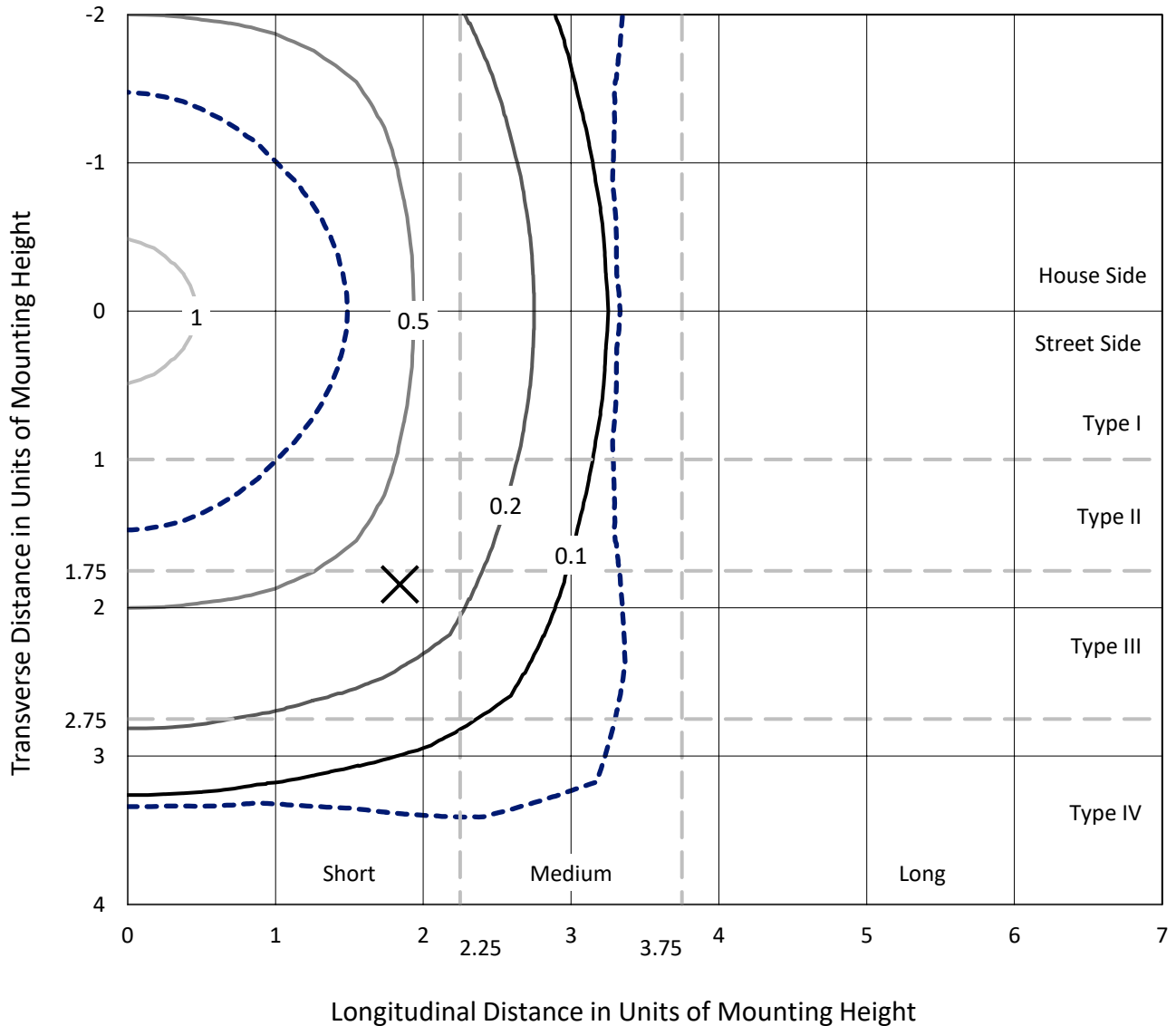
Input Watts (W): 103.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

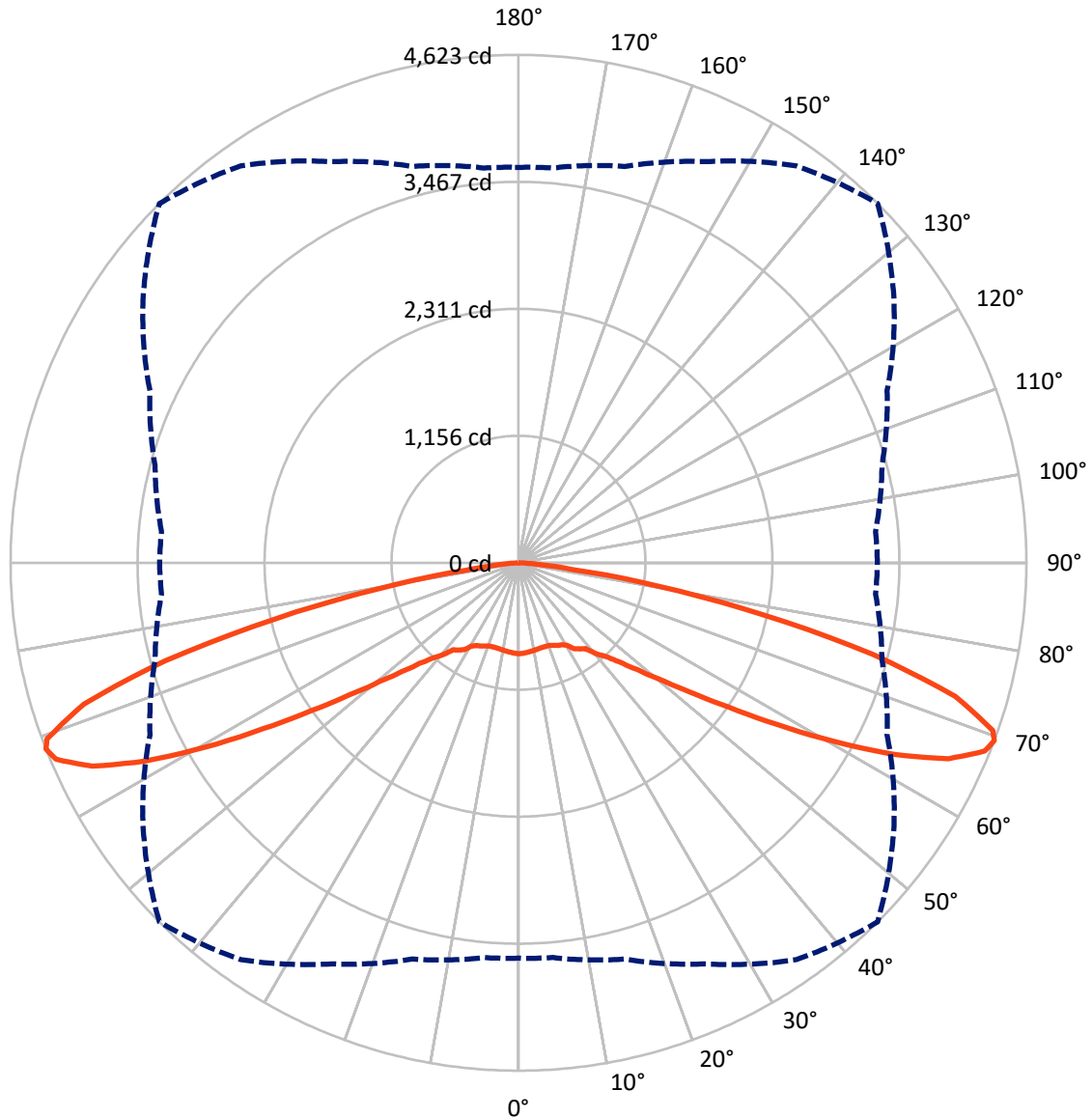
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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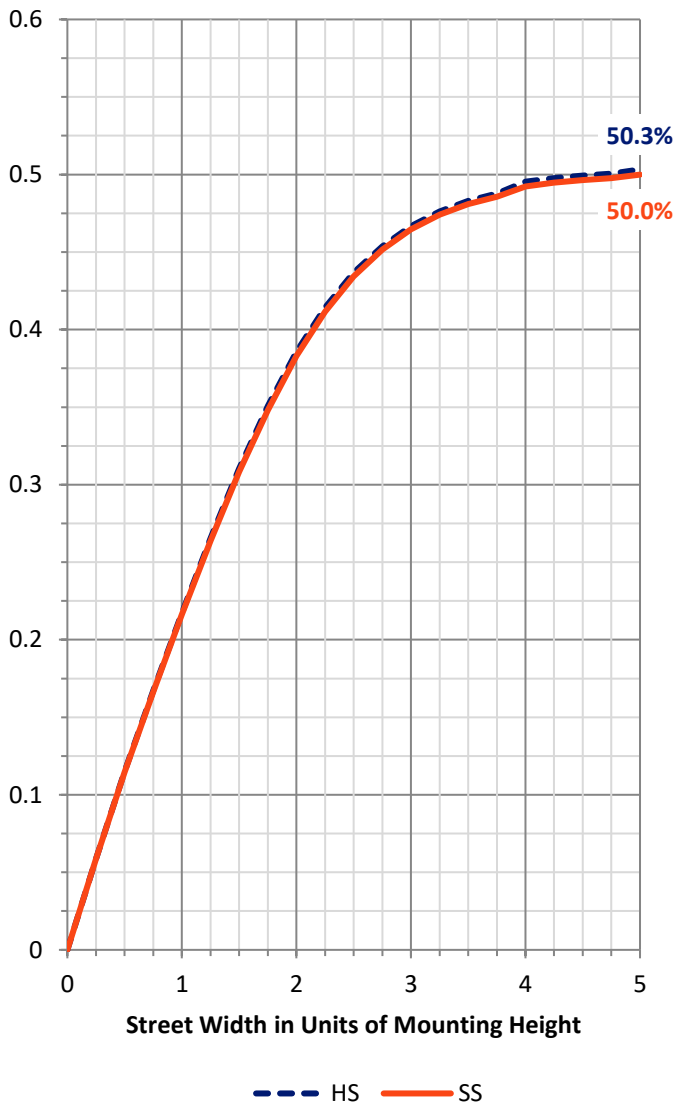
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5273.5	0.0	5273.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5273.5	0.0	5273.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10547.0	0.0	10547.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	0.7
10°-20°	229.3	2.2
20°-30°	388.7	3.7
30°-40°	604.4	5.7
40°-50°	1037.6	9.8
50°-60°	2064.4	19.6
60°-70°	3677.4	34.9
70°-80°	2316.0	22.0
80°-90°	151.2	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°	10547.0	100.0
0°-180°	10547.0	100.0

**Coefficient of Utilization**

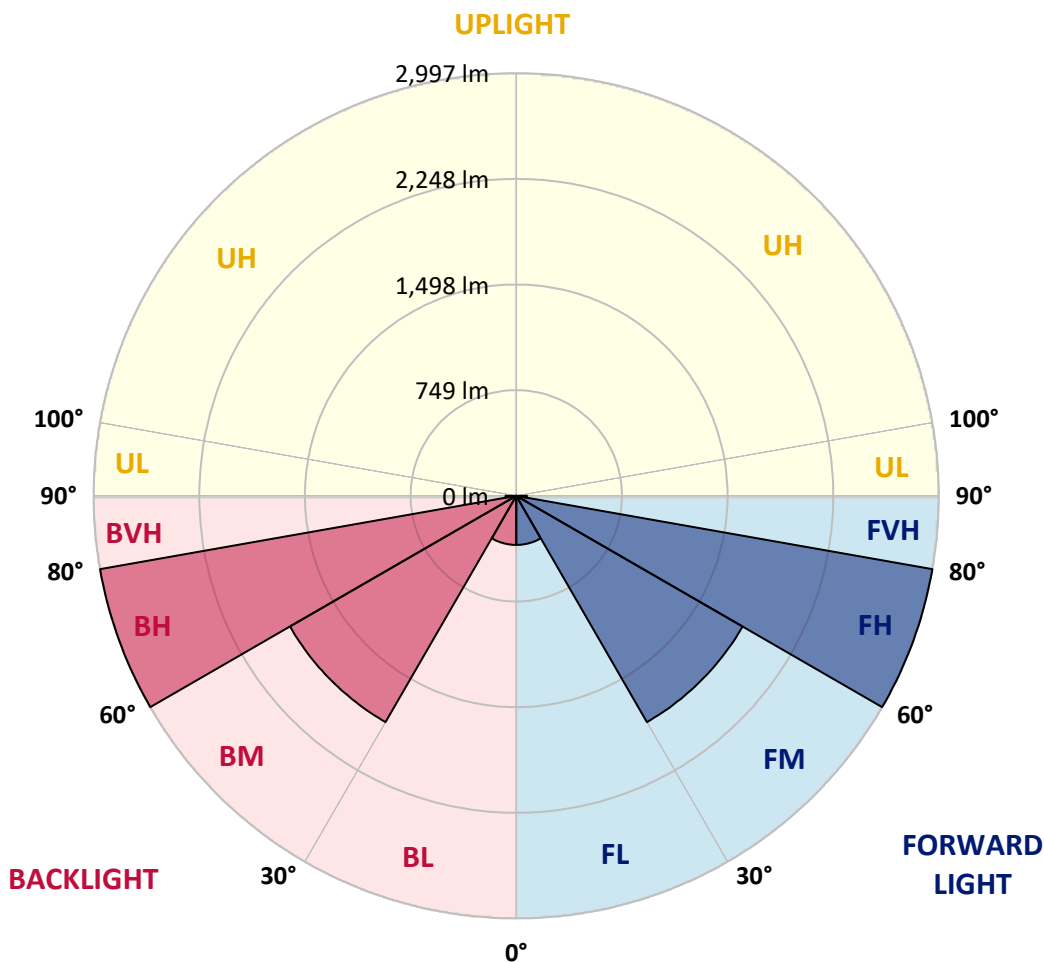


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	348.0	3.3			
FM (30°-60°)	1853.2	17.6			
FH (60°-80°)	2996.7	28.4			G2/5000
FVH (80°-90°)	75.6	0.7			G1/100
BL (0°-30°)	348.0	3.3	B1/500		
BM (30°-60°)	1853.2	17.6	B2/2500		
BH (60°-80°)	2996.7	28.4	B4/5000		G2/5000
BVH (80°-90°)	75.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6
2.5°	833.2	830.4	830.4	827.6	824.9	824.9	824.9	822.1	824.9	824.9	824.9
5°	830.4	827.6	824.9	822.1	822.1	819.3	822.1	819.3	819.3	819.3	819.3
7.5°	822.1	822.1	816.6	816.6	813.8	813.8	811.0	811.0	811.0	808.3	808.3
10°	822.1	819.3	816.6	811.0	808.3	808.3	808.3	805.5	808.3	808.3	808.3
12.5°	822.1	822.1	813.8	808.3	802.7	802.7	802.7	802.7	808.3	811.0	811.0
15°	827.6	824.9	816.6	805.5	800.0	800.0	800.0	802.7	808.3	813.8	813.8
17.5°	830.4	824.9	813.8	802.7	800.0	800.0	800.0	802.7	811.0	816.6	819.3
20°	833.2	830.4	816.6	805.5	802.7	802.7	802.7	802.7	811.0	819.3	822.1
22.5°	841.5	838.7	824.9	816.6	813.8	813.8	813.8	813.8	822.1	833.2	833.2
25°	852.6	847.0	833.2	827.6	827.6	833.2	833.2	827.6	835.9	844.2	847.0
27.5°	871.9	866.4	852.6	847.0	844.2	844.2	844.2	844.2	849.8	863.6	863.6
30°	888.5	885.8	880.2	880.2	877.5	871.9	871.9	877.5	880.2	885.8	888.5
32.5°	910.7	905.1	899.6	899.6	916.2	932.8	919.0	896.8	894.1	896.8	899.6
35°	957.7	952.2	938.4	930.1	946.7	963.3	941.1	927.3	935.6	943.9	943.9
37.5°	1024.2	1021.4	1010.3	993.7	988.2	991.0	982.6	993.7	1015.9	1032.5	1035.2
40°	1093.4	1090.6	1079.5	1071.2	1074.0	1087.8	1082.3	1071.2	1085.1	1096.1	1096.1
42.5°	1201.3	1190.3	1173.6	1151.5	1154.3	1165.3	1151.5	1162.6	1181.9	1201.3	1204.1
45°	1345.3	1334.2	1312.0	1292.7	1278.8	1284.4	1284.4	1303.7	1325.9	1348.0	1356.3
47.5°	1500.3	1497.5	1475.4	1458.7	1444.9	1453.2	1453.2	1453.2	1489.2	1511.3	1511.3
50°	1691.3	1683.0	1683.0	1669.1	1663.6	1666.4	1655.3	1666.4	1683.0	1688.5	1680.2
52.5°	1918.2	1909.9	1915.5	1921.0	1934.8	1954.2	1926.5	1923.8	1915.5	1907.2	1904.4
55°	2189.5	2197.8	2220.0	2255.9	2278.1	2316.8	2275.3	2225.5	2203.3	2181.2	2164.6
57.5°	2513.4	2527.2	2560.4	2646.2	2740.3	2776.3	2704.4	2613.0	2535.5	2471.8	2485.7
60°	2936.9	2928.6	2983.9	3100.2	3233.1	3305.0	3191.5	3042.1	2917.5	2887.0	2895.4
62.5°	3388.1	3404.7	3443.4	3598.4	3764.5	3842.0	3703.6	3482.2	3321.6	3238.6	3238.6
65°	3670.4	3681.5	3789.4	4008.1	4193.6	4298.7	4102.2	3781.1	3551.4	3413.0	3404.7
67.5°	3711.9	3723.0	3844.8	4124.4	4428.8	4575.5	4235.1	3817.1	3548.6	3379.8	3374.2
69°	3598.4	3606.7	3734.1	4027.5	4409.5	4622.6	4171.4	3700.8	3424.0	3260.7	3266.3
70°	3435.1	3468.3	3565.2	3864.2	4307.0	4581.1	4055.2	3570.8	3282.9	3152.8	3130.6
72.5°	2693.3	2715.4	2876.0	3246.9	3844.8	4157.6	3562.4	3022.7	2729.3	2593.6	2626.9
75°	1525.2	1519.6	1724.5	2255.9	2964.6	3329.9	2804.0	2175.7	1749.4	1586.1	1608.2
77.5°	581.3	606.2	744.6	1157.0	1862.9	2275.3	1860.1	1162.6	813.8	633.9	603.4
80°	188.2	199.3	263.0	420.7	794.4	1284.4	869.2	448.4	282.3	213.1	199.3
82.5°	74.7	83.0	99.6	141.2	268.5	484.4	293.4	163.3	121.8	99.6	91.3
85°	41.5	38.8	52.6	63.7	91.3	138.4	99.6	77.5	66.4	47.1	44.3
87.5°	13.8	13.8	22.1	22.1	24.9	22.1	24.9	27.7	27.7	16.6	13.8
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)