

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: P572643

Luminaire Tested: **ARCH-S-PA2-100-727-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572643  
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-PA2-100-727-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

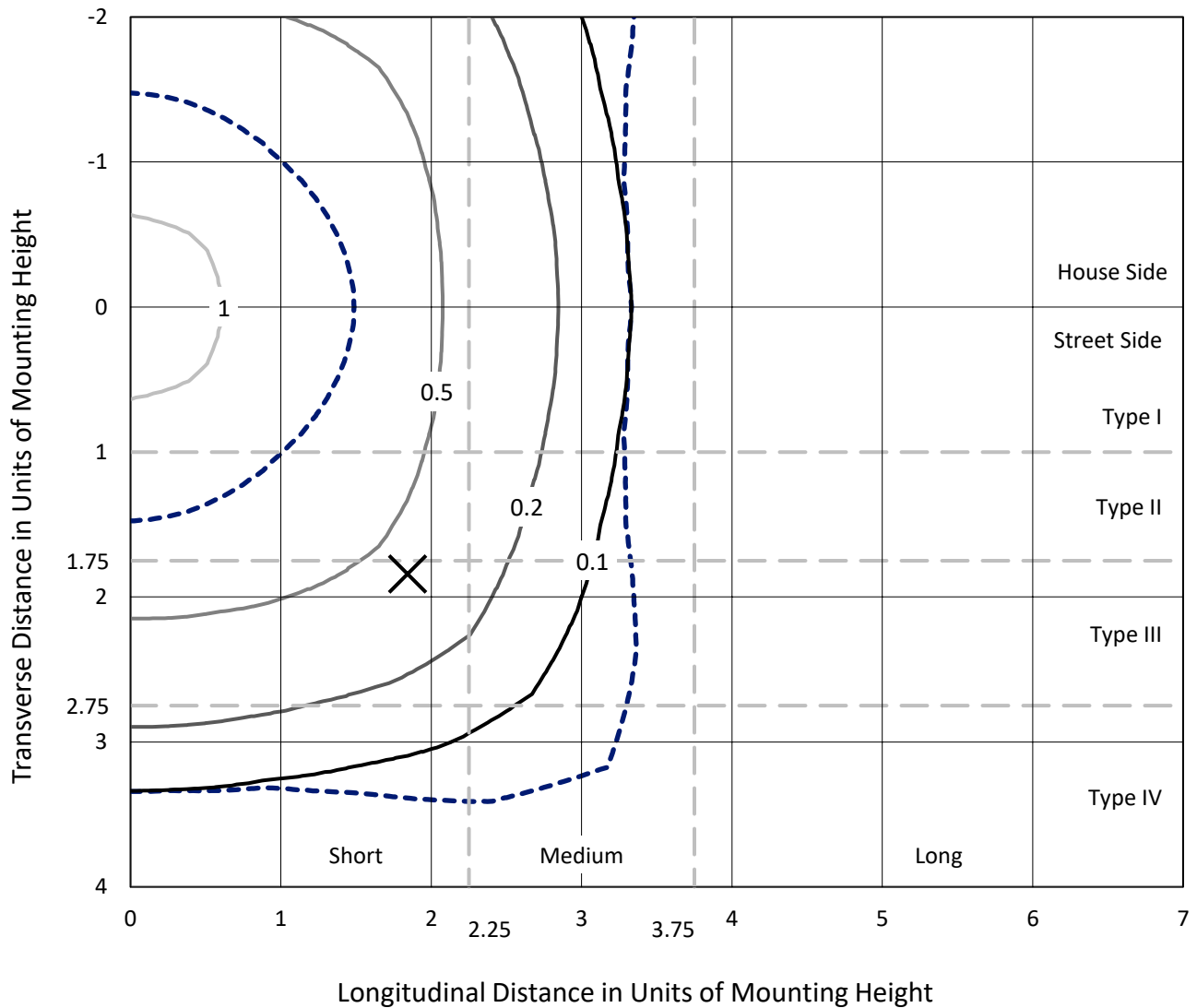
Lumens per Lamp: N/A  
Luminaire Lumens: 11999 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 103.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

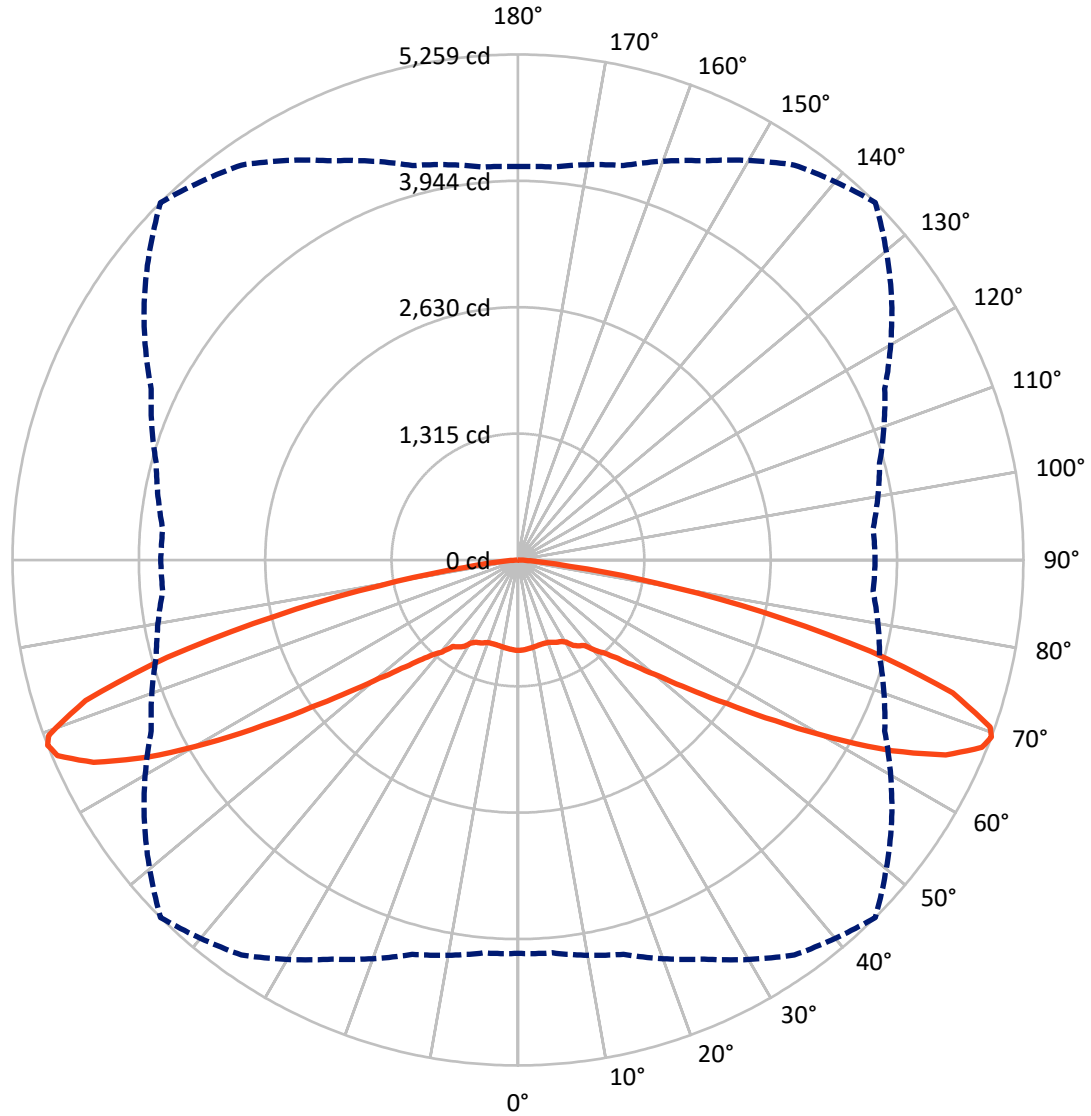
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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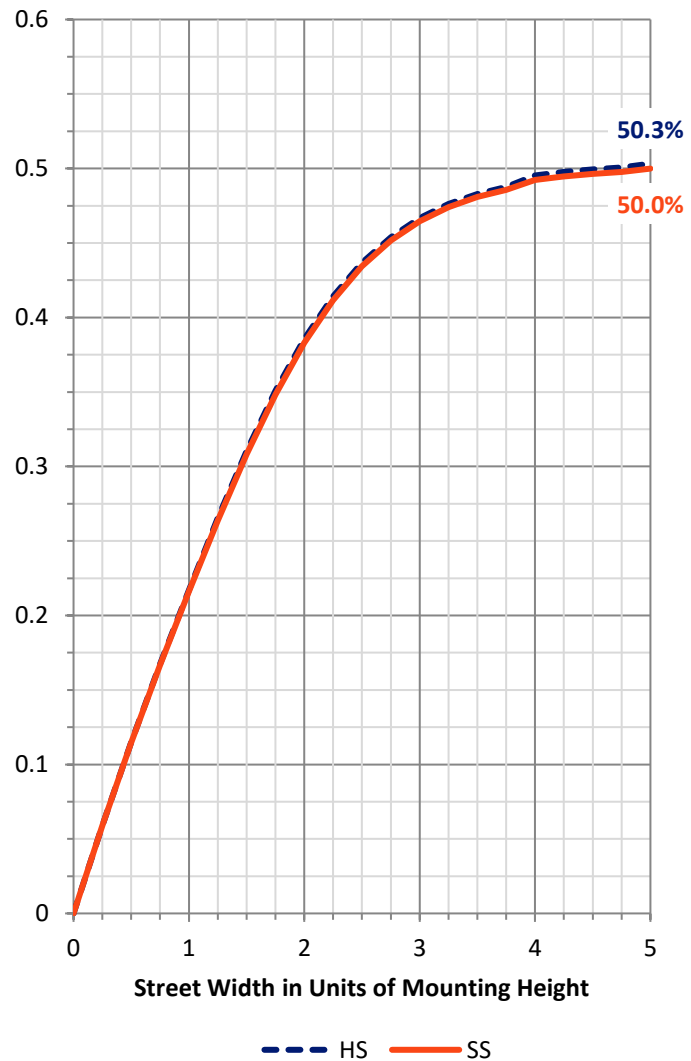
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5999.5	0.0	5999.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5999.5	0.0	5999.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11999.0	0.0	11999.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	0.7
10°-20°	260.8	2.2
20°-30°	442.3	3.7
30°-40°	687.6	5.7
40°-50°	1180.4	9.8
50°-60°	2348.6	19.6
60°-70°	4183.7	34.9
70°-80°	2634.8	22.0
80°-90°	172.1	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°	11999.0	100.0
0°-180°	11999.0	100.0

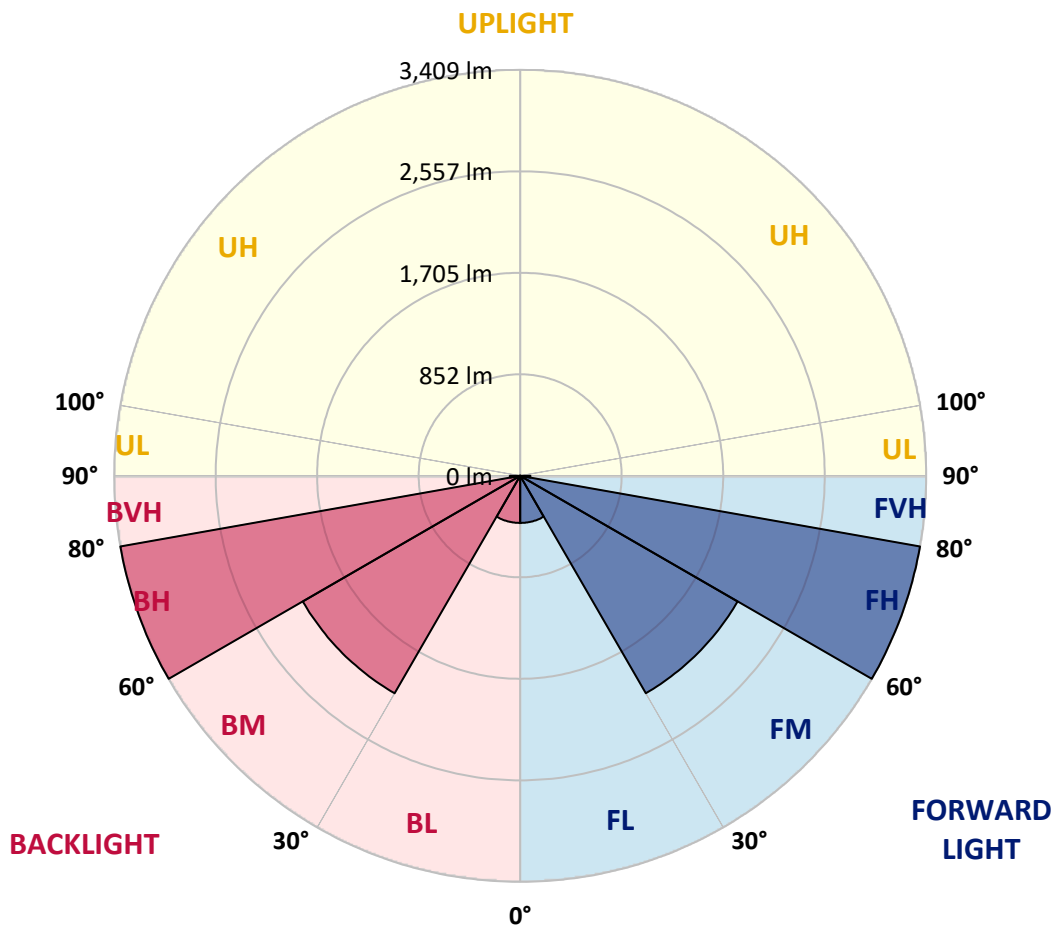


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	395.9	3.3			
FM (30°-60°)	2108.3	17.6			
FH (60°-80°)	3409.2	28.4			G2/5000
FVH (80°-90°)	86.0	0.7			G1/100
BL (0°-30°)	395.9	3.3	B1/500		
BM (30°-60°)	2108.3	17.6	B2/2500		
BH (60°-80°)	3409.2	28.4	B4/5000		G2/5000
BVH (80°-90°)	86.0	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°	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6	941.6
2.5°	947.9	944.7	944.7	941.6	938.4	938.4	938.4	935.3	938.4	938.4	938.4
5°	944.7	941.6	938.4	935.3	935.3	932.1	935.3	932.1	932.1	932.1	932.1
7.5°	935.3	935.3	929.0	929.0	925.8	925.8	922.7	922.7	922.7	919.5	919.5
10°	935.3	932.1	929.0	922.7	919.5	919.5	919.5	916.4	919.5	919.5	919.5
12.5°	935.3	935.3	925.8	919.5	913.2	913.2	913.2	913.2	919.5	922.7	922.7
15°	941.6	938.4	929.0	916.4	910.1	910.1	910.1	913.2	919.5	925.8	925.8
17.5°	944.7	938.4	925.8	913.2	910.1	910.1	910.1	913.2	922.7	929.0	932.1
20°	947.9	944.7	929.0	916.4	913.2	913.2	913.2	913.2	922.7	932.1	935.3
22.5°	957.3	954.2	938.4	929.0	925.8	929.0	925.8	925.8	935.3	947.9	947.9
25°	969.9	963.6	947.9	941.6	941.6	947.9	947.9	941.6	951.0	960.5	963.6
27.5°	992.0	985.7	969.9	963.6	960.5	960.5	960.5	960.5	966.8	982.5	982.5
30°	1010.9	1007.7	1001.4	1001.4	998.3	992.0	992.0	998.3	1001.4	1007.7	1010.9
32.5°	1036.1	1029.8	1023.5	1023.5	1042.4	1061.2	1045.5	1020.3	1017.2	1020.3	1023.5
35°	1089.6	1083.3	1067.5	1058.1	1077.0	1095.9	1070.7	1054.9	1064.4	1073.8	1073.8
37.5°	1165.2	1162.0	1149.4	1130.5	1124.2	1127.4	1117.9	1130.5	1155.7	1174.6	1177.8
40°	1243.9	1240.7	1228.1	1218.7	1221.8	1237.6	1231.3	1218.7	1234.4	1247.0	1247.0
42.5°	1366.7	1354.1	1335.2	1310.0	1313.2	1325.8	1310.0	1322.6	1344.7	1366.7	1369.9
45°	1530.5	1517.9	1492.7	1470.6	1454.9	1461.2	1461.2	1483.2	1508.4	1533.6	1543.1
47.5°	1706.8	1703.7	1678.5	1659.6	1643.8	1653.3	1653.3	1653.3	1694.2	1719.4	1719.4
50°	1924.1	1914.7	1914.7	1898.9	1892.6	1895.8	1883.2	1895.8	1914.7	1920.9	1911.5
52.5°	2182.3	2172.9	2179.2	2185.5	2201.2	2223.3	2191.8	2188.6	2179.2	2169.7	2166.6
55°	2490.9	2500.4	2525.6	2566.5	2591.7	2635.8	2588.6	2531.9	2506.7	2481.5	2462.6
57.5°	2859.4	2875.1	2912.9	3010.5	3117.6	3158.5	3076.7	2972.7	2884.6	2812.1	2827.9
60°	3341.2	3331.7	3394.7	3527.0	3678.1	3760.0	3630.9	3460.9	3319.1	3284.5	3294.0
62.5°	3854.5	3873.4	3917.5	4093.8	4282.8	4370.9	4213.5	3961.6	3778.9	3684.4	3684.4
65°	4175.7	4188.3	4311.1	4559.9	4770.9	4890.5	4667.0	4301.7	4040.3	3882.8	3873.4
67.5°	4222.9	4235.5	4374.1	4692.2	5038.6	5205.5	4818.1	4342.6	4037.1	3845.0	3838.7
69°	4093.8	4103.3	4248.1	4581.9	5016.5	5259.0	4745.7	4210.3	3895.4	3709.6	3715.9
70°	3908.0	3945.8	4056.0	4396.1	4900.0	5211.8	4613.4	4062.3	3734.8	3586.8	3561.6
72.5°	3064.1	3089.3	3271.9	3693.9	4374.1	4729.9	4052.9	3438.8	3105.0	2950.7	2988.5
75°	1735.2	1728.9	1961.9	2566.5	3372.7	3788.4	3190.0	2475.2	1990.2	1804.4	1829.6
77.5°	661.3	689.7	847.1	1316.3	2119.3	2588.6	2116.2	1322.6	925.8	721.1	686.5
80°	214.1	226.7	299.2	478.7	903.8	1461.2	988.8	510.2	321.2	242.5	226.7
82.5°	85.0	94.5	113.4	160.6	305.5	551.1	333.8	185.8	138.6	113.4	103.9
85°	47.2	44.1	59.8	72.4	103.9	157.5	113.4	88.2	75.6	53.5	50.4
87.5°	15.7	15.7	25.2	25.2	28.3	25.2	28.3	31.5	31.5	18.9	15.7
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)