

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: P572805

Luminaire Tested: **ARCH-S-PA2-120-727-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572805  
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-PA2-120-727-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 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: 13488 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

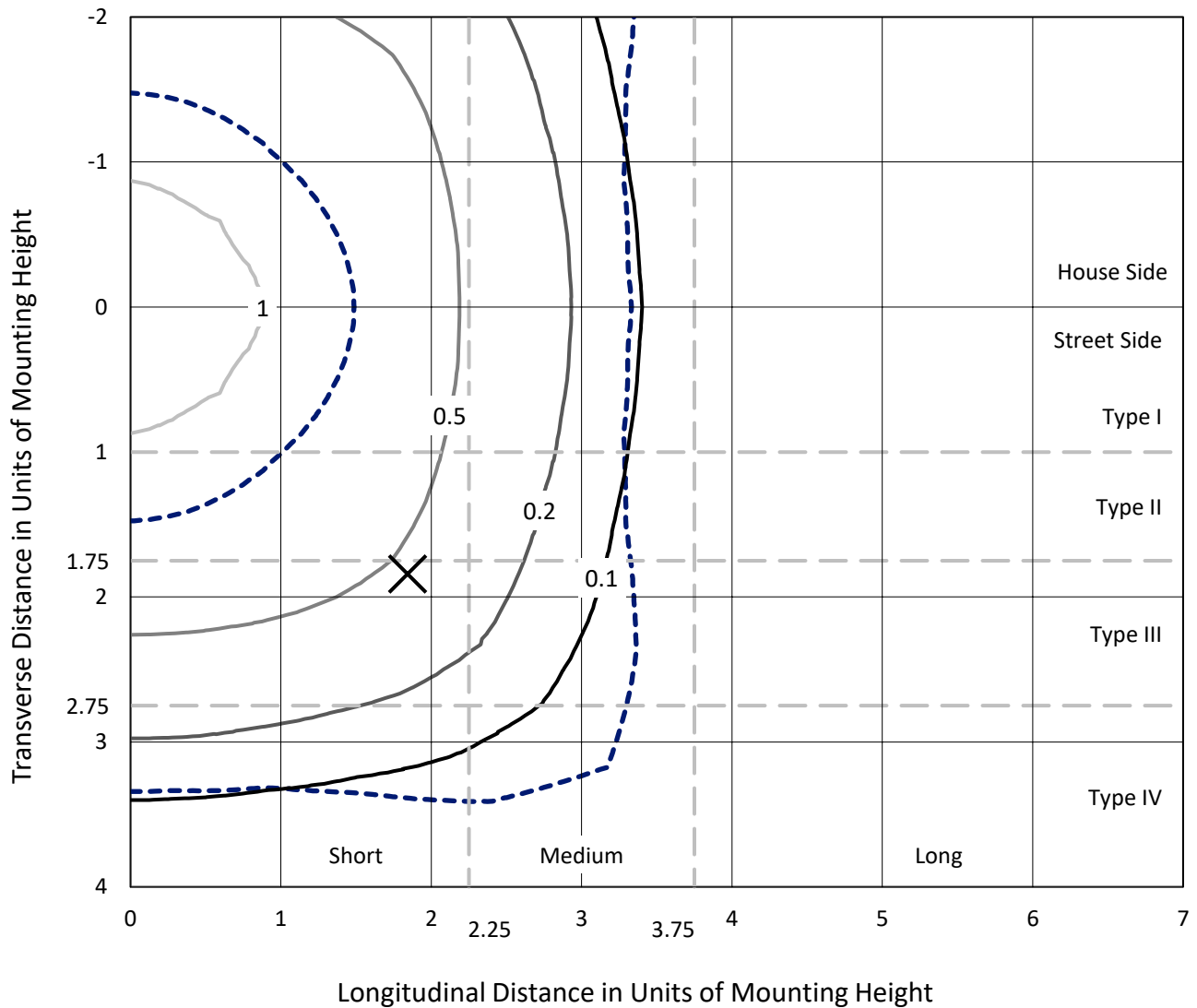
Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

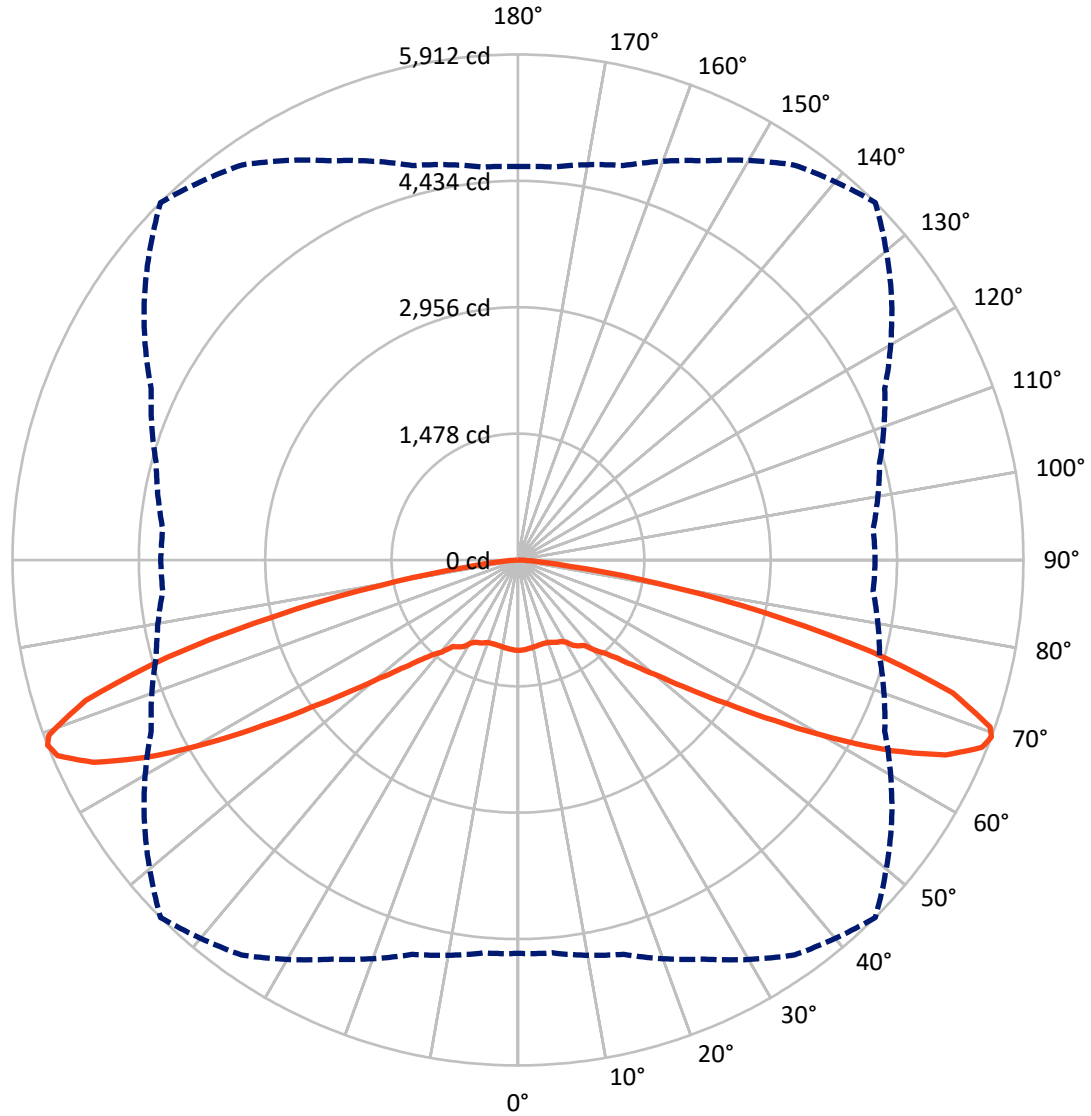
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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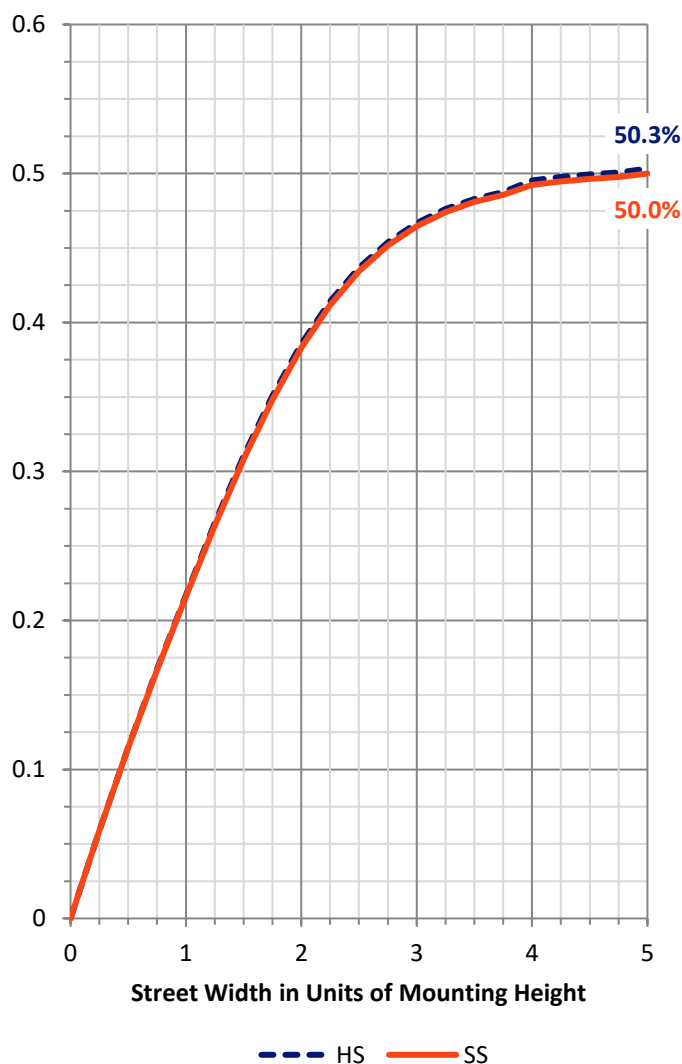
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6744.0	0.0	6744.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6744.0	0.0	6744.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13488.0	0.0	13488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.7	0.7
10°-20°	293.2	2.2
20°-30°	497.1	3.7
30°-40°	773.0	5.7
40°-50°	1326.9	9.8
50°-60°	2640.0	19.6
60°-70°	4702.8	34.9
70°-80°	2961.8	22.0
80°-90°	193.4	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°	13488.0	100.0
0°-180°	13488.0	100.0

**Coefficient of Utilization**



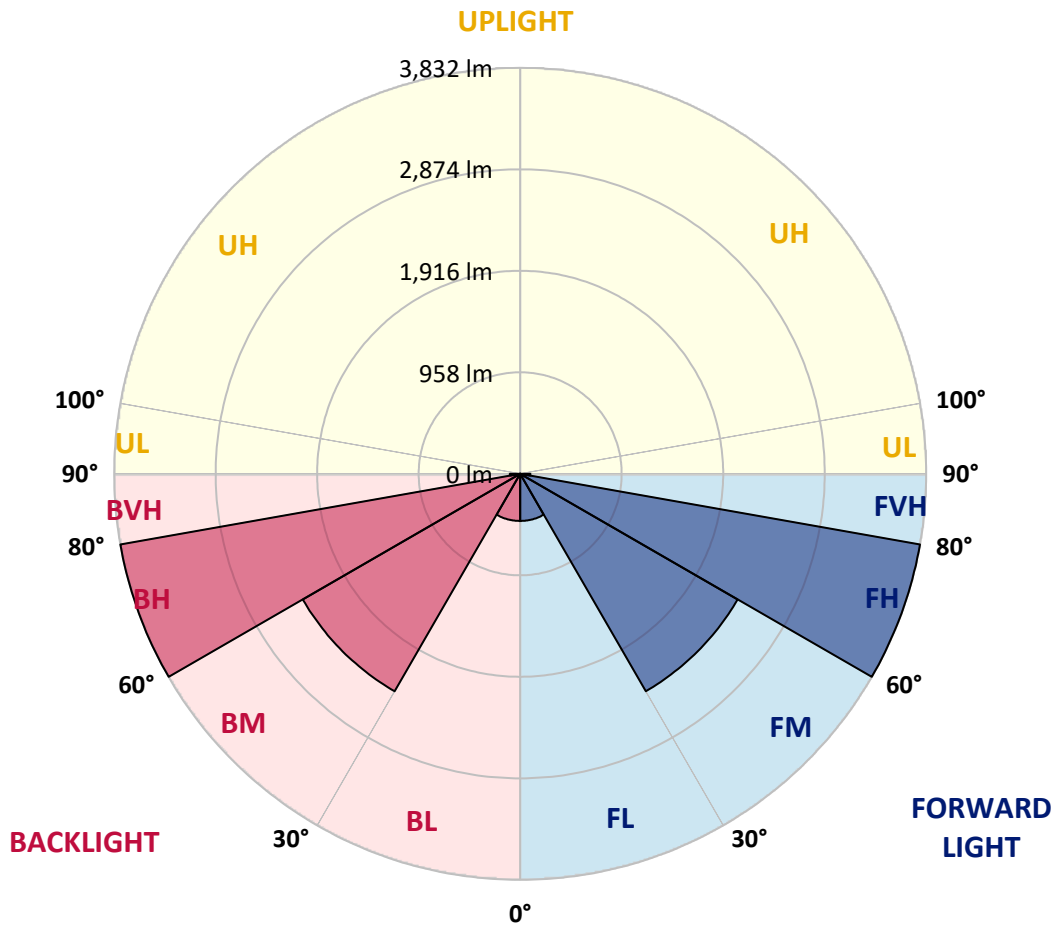
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.0	3.3			
FM (30°-60°)	2369.9	17.6			
FH (60°-80°)	3832.3	28.4			G2/5000
FVH (80°-90°)	96.7	0.7			G1/100
BL (0°-30°)	445.0	3.3	B1/500		
BM (30°-60°)	2369.9	17.6	B2/2500		
BH (60°-80°)	3832.3	28.4	B4/5000		G2/5000
BVH (80°-90°)	96.7	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°	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4	1058.4
2.5°	1065.5	1062.0	1062.0	1058.4	1054.9	1054.9	1054.9	1051.3	1054.9	1054.9	1054.9
5°	1062.0	1058.4	1054.9	1051.3	1051.3	1047.8	1051.3	1047.8	1047.8	1047.8	1047.8
7.5°	1051.3	1051.3	1044.3	1044.3	1040.7	1040.7	1037.2	1037.2	1037.2	1033.6	1033.6
10°	1051.3	1047.8	1044.3	1037.2	1033.6	1033.6	1033.6	1030.1	1033.6	1033.6	1033.6
12.5°	1051.3	1051.3	1040.7	1033.6	1026.6	1026.6	1026.6	1026.6	1033.6	1037.2	1037.2
15°	1058.4	1054.9	1044.3	1030.1	1023.0	1023.0	1023.0	1026.6	1033.6	1040.7	1040.7
17.5°	1062.0	1054.9	1040.7	1026.6	1023.0	1023.0	1023.0	1026.6	1037.2	1044.3	1047.8
20°	1065.5	1062.0	1044.3	1030.1	1026.6	1026.6	1026.6	1026.6	1037.2	1047.8	1051.3
22.5°	1076.1	1072.6	1054.9	1044.3	1040.7	1044.3	1040.7	1040.7	1051.3	1065.5	1065.5
25°	1090.3	1083.2	1065.5	1058.4	1058.4	1065.5	1065.5	1058.4	1069.0	1079.7	1083.2
27.5°	1115.1	1108.0	1090.3	1083.2	1079.7	1079.7	1079.7	1079.7	1086.7	1104.4	1104.4
30°	1136.3	1132.8	1125.7	1125.7	1122.1	1115.1	1115.1	1122.1	1125.7	1132.8	1136.3
32.5°	1164.6	1157.5	1150.5	1150.5	1171.7	1192.9	1175.2	1146.9	1143.4	1146.9	1150.5
35°	1224.8	1217.7	1200.0	1189.4	1210.6	1231.9	1203.6	1185.9	1196.5	1207.1	1207.1
37.5°	1309.8	1306.2	1292.1	1270.8	1263.7	1267.3	1256.7	1270.8	1299.1	1320.4	1323.9
40°	1398.3	1394.7	1380.6	1369.9	1373.5	1391.2	1384.1	1369.9	1387.6	1401.8	1401.8
42.5°	1536.3	1522.1	1500.9	1472.6	1476.1	1490.3	1472.6	1486.7	1511.5	1536.3	1539.8
45°	1720.4	1706.2	1677.9	1653.1	1635.4	1642.5	1642.5	1667.3	1695.6	1723.9	1734.5
47.5°	1918.6	1915.1	1886.8	1865.5	1847.8	1858.4	1858.4	1858.4	1904.5	1932.8	1932.8
50°	2162.9	2152.2	2152.2	2134.5	2127.5	2131.0	2116.8	2131.0	2152.2	2159.3	2148.7
52.5°	2453.1	2442.5	2449.6	2456.7	2474.4	2499.2	2463.8	2460.2	2449.6	2439.0	2435.4
55°	2800.0	2810.7	2839.0	2885.0	2913.3	2962.9	2909.8	2846.1	2817.7	2789.4	2768.2
57.5°	3214.2	3231.9	3274.4	3384.1	3504.5	3550.5	3458.5	3341.6	3242.5	3161.1	3178.8
60°	3755.8	3745.2	3816.0	3964.7	4134.6	4226.6	4081.5	3890.3	3731.0	3692.1	3702.7
62.5°	4332.8	4354.1	4403.6	4601.8	4814.2	4913.4	4736.4	4453.2	4247.9	4141.7	4141.7
65°	4693.9	4708.0	4846.1	5125.7	5362.9	5497.4	5246.1	4835.5	4541.7	4364.7	4354.1
67.5°	4747.0	4761.1	4916.9	5274.4	5663.8	5851.4	5416.0	4881.5	4538.1	4322.2	4315.1
69°	4601.8	4612.5	4775.3	5150.5	5639.0	5911.6	5334.6	4732.8	4378.8	4170.0	4177.1
70°	4393.0	4435.5	4559.4	4941.7	5508.1	5858.5	5185.9	4566.4	4198.3	4031.9	4003.6
72.5°	3444.3	3472.6	3677.9	4152.3	4916.9	5316.9	4555.8	3865.5	3490.3	3316.9	3359.3
75°	1950.5	1943.4	2205.3	2885.0	3791.2	4258.5	3585.9	2782.3	2237.2	2028.4	2056.7
77.5°	743.4	775.2	952.2	1479.7	2382.3	2909.8	2378.8	1486.7	1040.7	810.6	771.7
80°	240.7	254.9	336.3	538.1	1015.9	1642.5	1111.5	573.5	361.1	272.6	254.9
82.5°	95.6	106.2	127.4	180.5	343.4	619.5	375.2	208.9	155.8	127.4	116.8
85°	53.1	49.6	67.3	81.4	116.8	177.0	127.4	99.1	85.0	60.2	56.6
87.5°	17.7	17.7	28.3	28.3	31.9	28.3	31.9	35.4	35.4	21.2	17.7
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)