

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: P572967

Luminaire Tested: **ARCH-S-PA2-20-727-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572967  
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-PA2-20-727-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3186 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

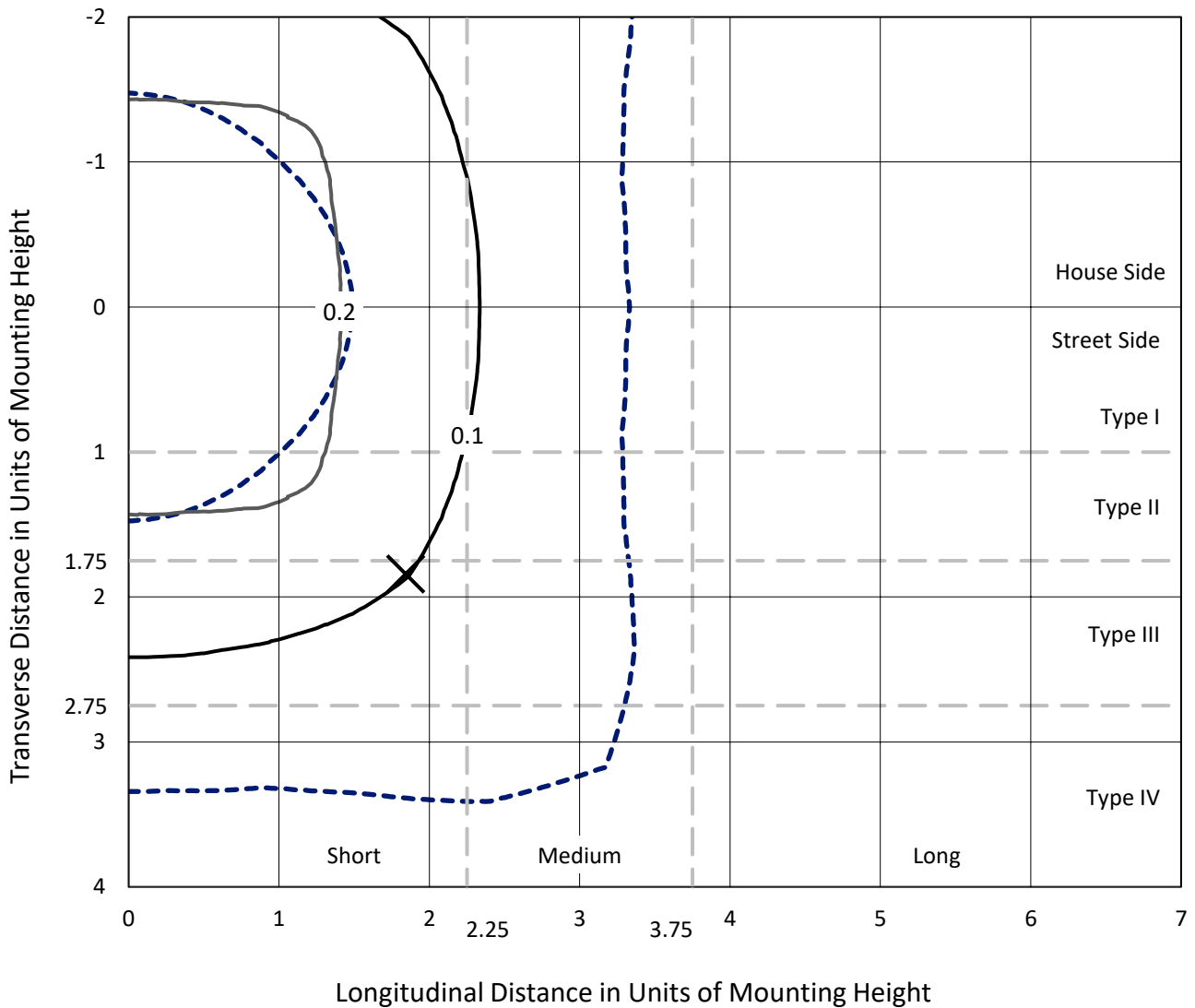
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

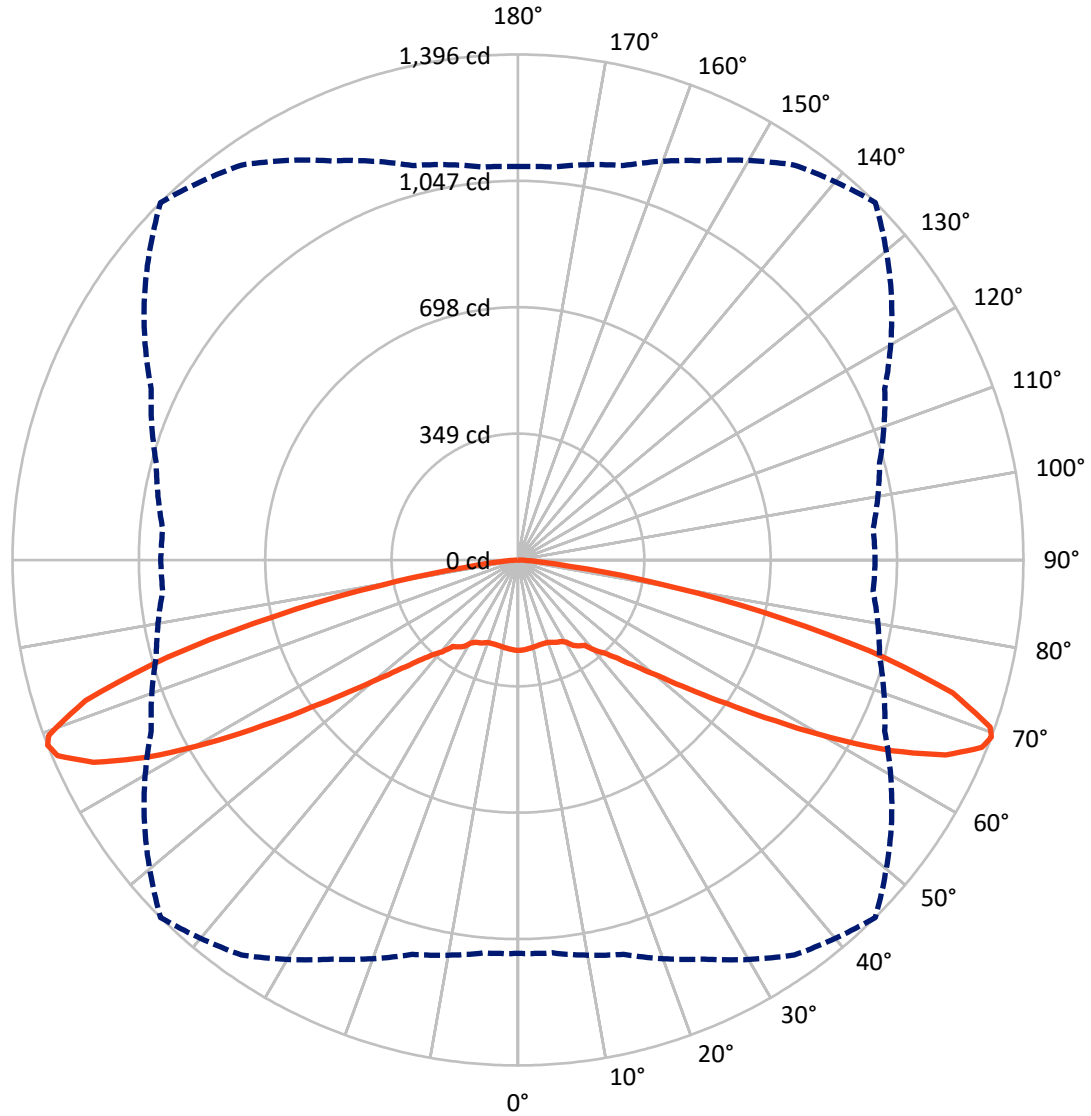
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 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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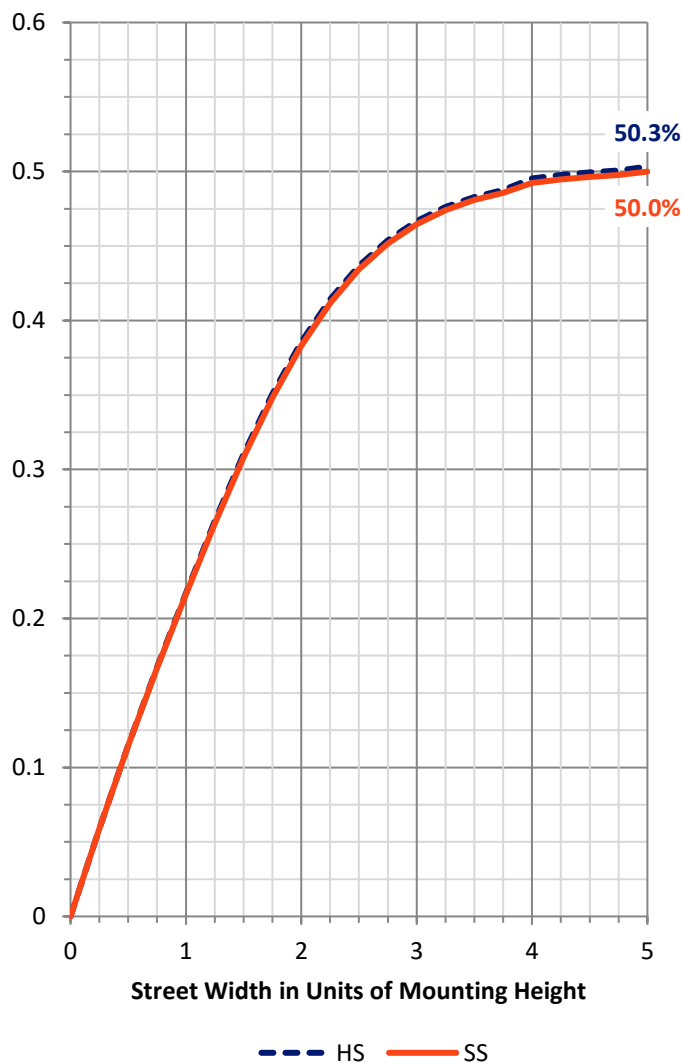
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1593.0	0.0	1593.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1593.0	0.0	1593.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3186.0	0.0	3186.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.6	0.7
10°-20°	69.3	2.2
20°-30°	117.4	3.7
30°-40°	182.6	5.7
40°-50°	313.4	9.8
50°-60°	623.6	19.6
60°-70°	1110.9	34.9
70°-80°	699.6	22.0
80°-90°	45.7	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°	3186.0	100.0
0°-180°	3186.0	100.0

**Coefficient of Utilization**



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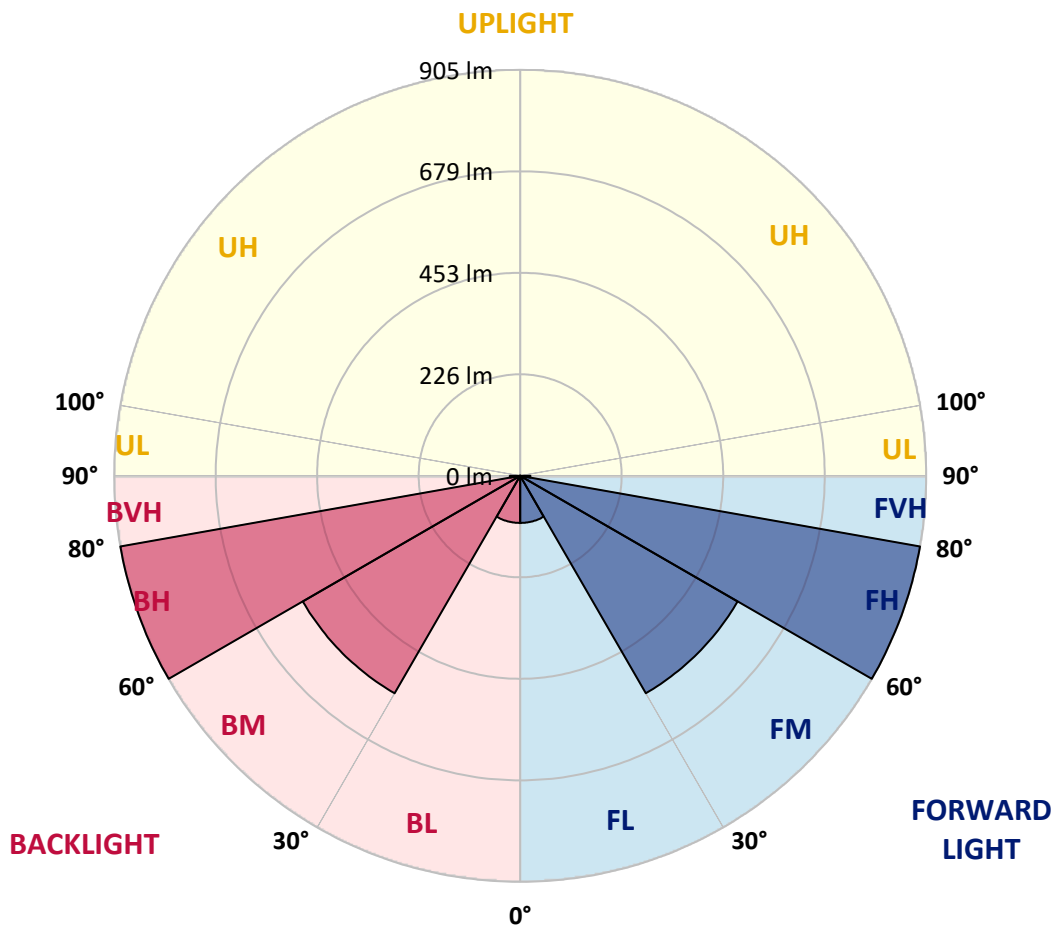
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.1	3.3			
FM (30°-60°)	559.8	17.6			
FH (60°-80°)	905.2	28.4			G1/1800
FVH (80°-90°)	22.8	0.7			G1/100
BL (0°-30°)	105.1	3.3	B0/110		
BM (30°-60°)	559.8	17.6	B1/1000		
BH (60°-80°)	905.2	28.4	B2/1000		G1/1800
BVH (80°-90°)	22.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
2.5°	251.7	250.8	250.8	250.0	249.2	249.2	249.2	248.3	249.2	249.2	249.2
5°	250.8	250.0	249.2	248.3	248.3	247.5	248.3	247.5	247.5	247.5	247.5
7.5°	248.3	248.3	246.7	246.7	245.8	245.8	245.0	245.0	245.0	244.2	244.2
10°	248.3	247.5	246.7	245.0	244.2	244.2	244.2	243.3	244.2	244.2	244.2
12.5°	248.3	248.3	245.8	244.2	242.5	242.5	242.5	242.5	244.2	245.0	245.0
15°	250.0	249.2	246.7	243.3	241.6	241.6	241.6	242.5	244.2	245.8	245.8
17.5°	250.8	249.2	245.8	242.5	241.6	241.6	241.6	242.5	245.0	246.7	247.5
20°	251.7	250.8	246.7	243.3	242.5	242.5	242.5	242.5	245.0	247.5	248.3
22.5°	254.2	253.4	249.2	246.7	245.8	246.7	245.8	245.8	248.3	251.7	251.7
25°	257.5	255.9	251.7	250.0	250.0	251.7	251.7	250.0	252.5	255.0	255.9
27.5°	263.4	261.7	257.5	255.9	255.0	255.0	255.0	255.0	256.7	260.9	260.9
30°	268.4	267.6	265.9	265.9	265.1	263.4	263.4	265.1	265.9	267.6	268.4
32.5°	275.1	273.4	271.8	271.8	276.8	281.8	277.6	270.9	270.1	270.9	271.8
35°	289.3	287.6	283.5	280.9	286.0	291.0	284.3	280.1	282.6	285.1	285.1
37.5°	309.4	308.5	305.2	300.2	298.5	299.3	296.8	300.2	306.9	311.9	312.7
40°	330.3	329.4	326.1	323.6	324.4	328.6	326.9	323.6	327.8	331.1	331.1
42.5°	362.9	359.5	354.5	347.8	348.7	352.0	347.8	351.2	357.0	362.9	363.7
45°	406.4	403.0	396.3	390.5	386.3	388.0	388.0	393.8	400.5	407.2	409.7
47.5°	453.2	452.4	445.7	440.7	436.5	439.0	439.0	439.0	449.9	456.5	456.5
50°	510.9	508.4	508.4	504.2	502.5	503.4	500.0	503.4	508.4	510.1	507.5
52.5°	579.5	576.9	578.6	580.3	584.5	590.3	582.0	581.1	578.6	576.1	575.3
55°	661.4	663.9	670.6	681.5	688.2	699.9	687.3	672.3	665.6	658.9	653.9
57.5°	759.2	763.4	773.4	799.4	827.8	838.7	816.9	789.3	765.9	746.7	750.9
60°	887.2	884.7	901.4	936.5	976.6	998.4	964.1	918.9	881.3	872.1	874.6
62.5°	1023.5	1028.5	1040.2	1087.0	1137.2	1160.6	1118.8	1051.9	1003.4	978.3	978.3
65°	1108.7	1112.1	1144.7	1210.8	1266.8	1298.5	1239.2	1142.2	1072.8	1031.0	1028.5
67.5°	1121.3	1124.6	1161.4	1245.9	1337.8	1382.2	1279.3	1153.1	1072.0	1020.9	1019.3
69°	1087.0	1089.5	1128.0	1216.6	1332.0	1396.4	1260.1	1117.9	1034.3	985.0	986.7
70°	1037.7	1047.7	1077.0	1167.3	1301.1	1383.8	1225.0	1078.6	991.7	952.4	945.7
72.5°	813.6	820.3	868.8	980.8	1161.4	1255.9	1076.1	913.1	824.4	783.5	793.5
75°	460.7	459.0	520.9	681.5	895.5	1005.9	847.0	657.2	528.4	479.1	485.8
77.5°	175.6	183.1	224.9	349.5	562.7	687.3	561.9	351.2	245.8	191.5	182.3
80°	56.9	60.2	79.4	127.1	240.0	388.0	262.6	135.5	85.3	64.4	60.2
82.5°	22.6	25.1	30.1	42.6	81.1	146.3	88.6	49.3	36.8	30.1	27.6
85°	12.5	11.7	15.9	19.2	27.6	41.8	30.1	23.4	20.1	14.2	13.4
87.5°	4.2	4.2	6.7	6.7	7.5	6.7	7.5	8.4	8.4	5.0	4.2
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)