

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: P573102

Luminaire Tested: **ARCH-S-PA2-30-827-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573102  
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-PA2-30-827-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3979 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

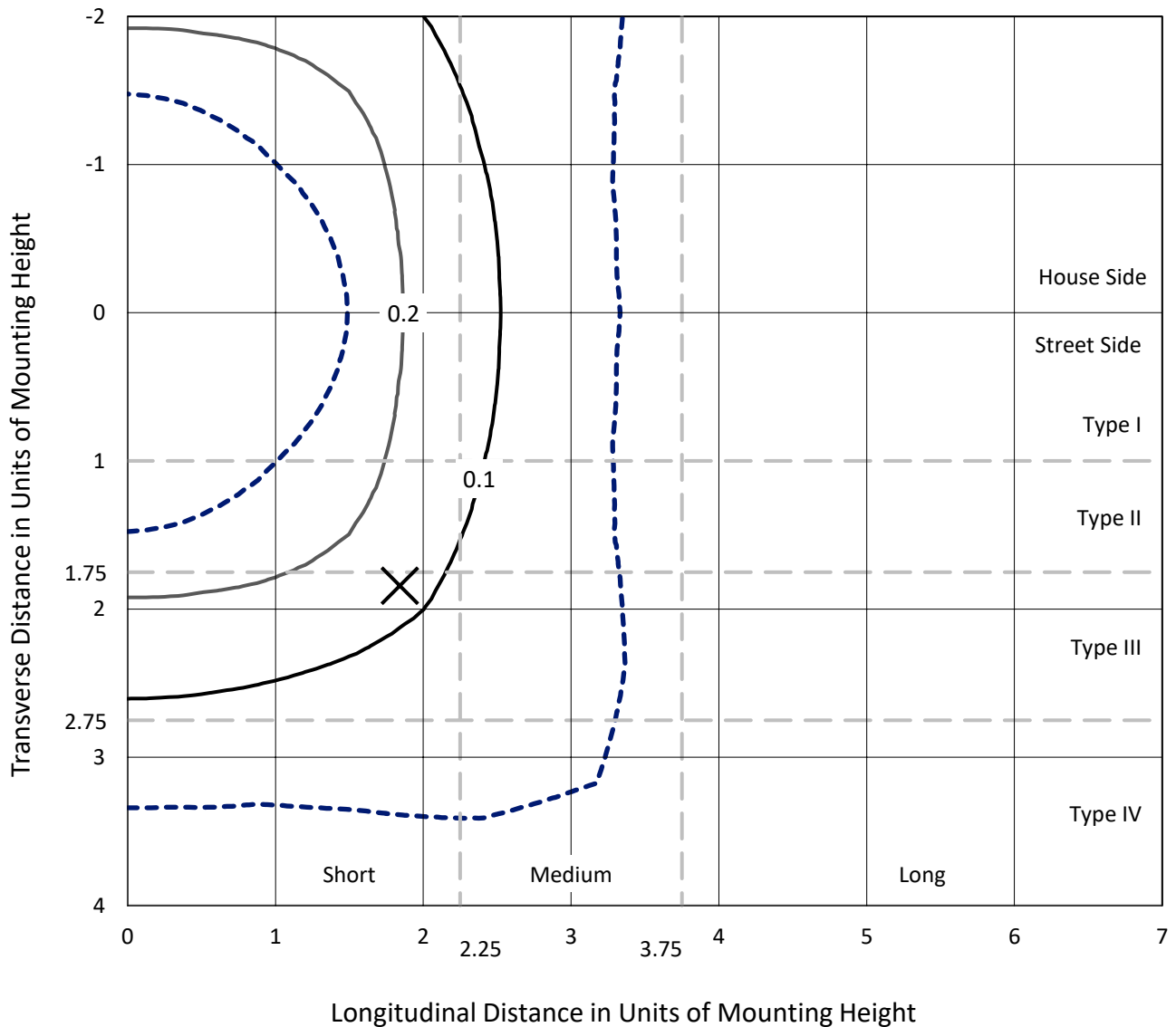
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

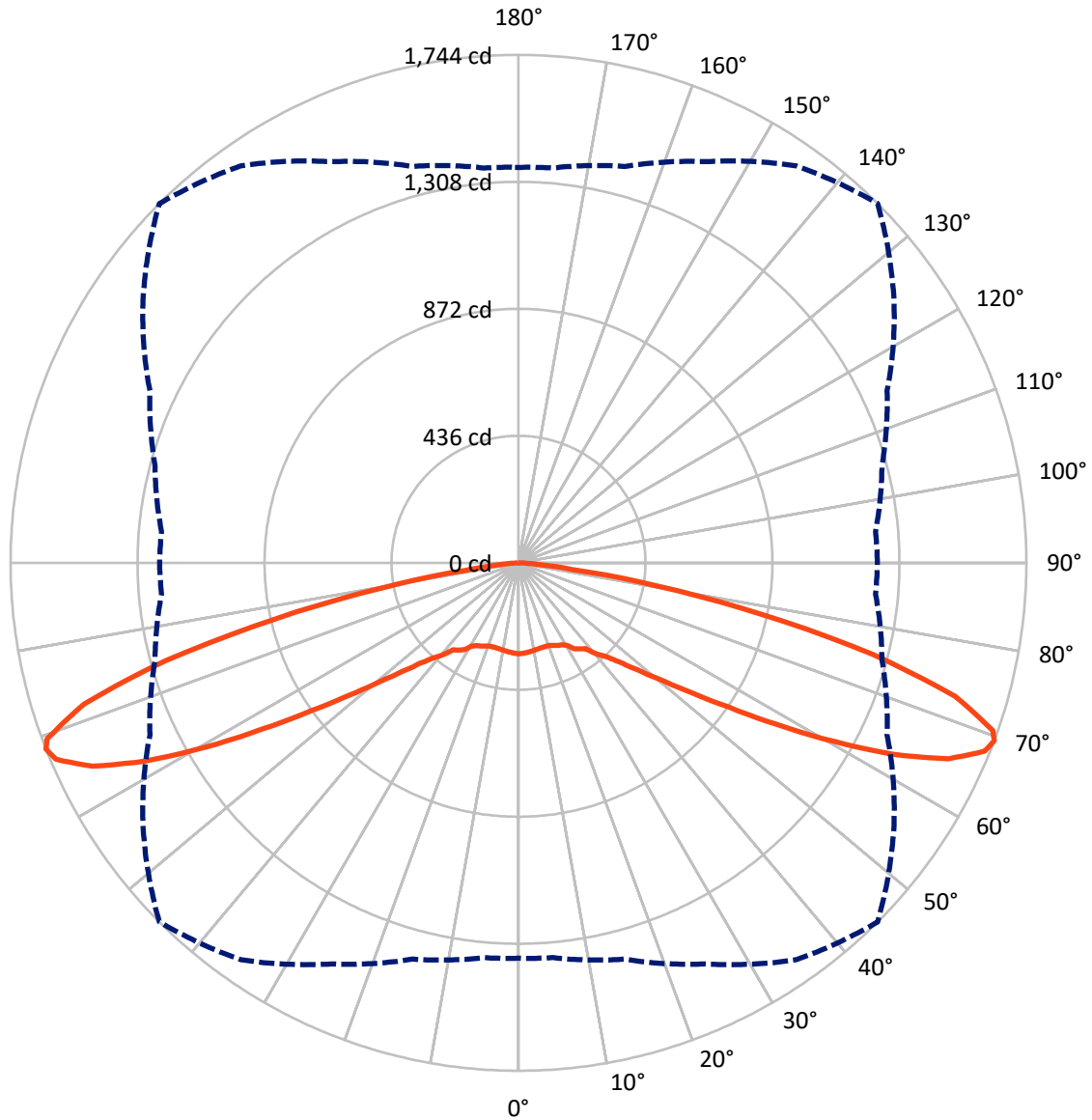
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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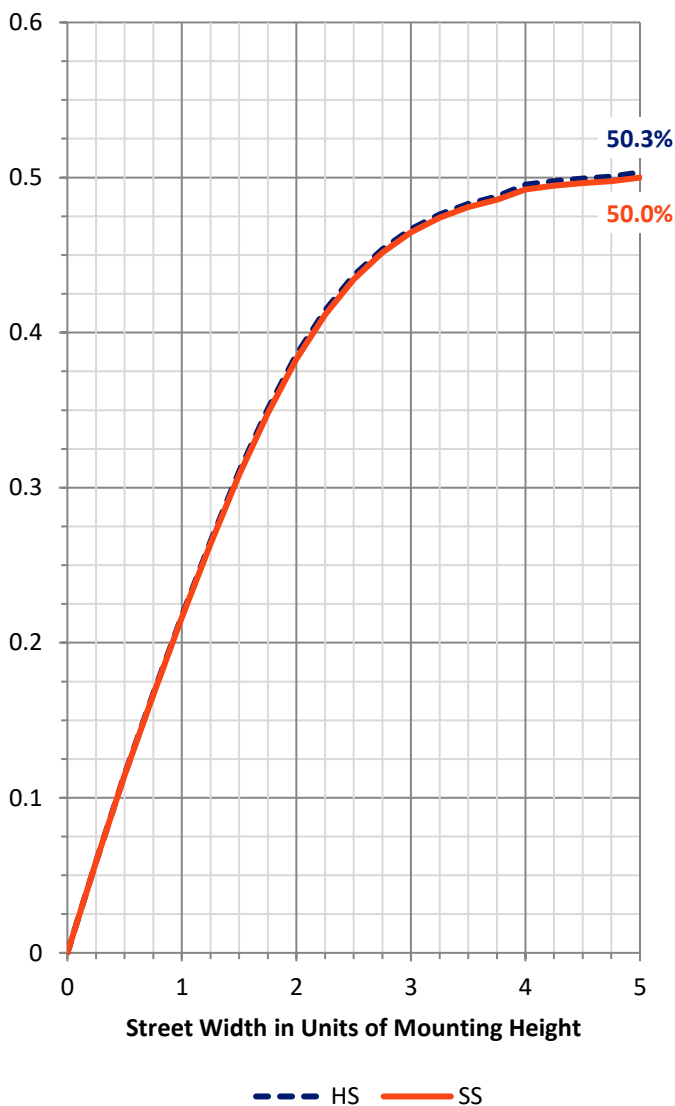
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1989.5	0.0	1989.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1989.5	0.0	1989.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3979.0	0.0	3979.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.4	0.7
10°-20°	86.5	2.2
20°-30°	146.7	3.7
30°-40°	228.0	5.7
40°-50°	391.4	9.8
50°-60°	778.8	19.6
60°-70°	1387.4	34.9
70°-80°	873.7	22.0
80°-90°	57.1	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°	3979.0	100.0
0°-180°	3979.0	100.0

**Coefficient of Utilization**



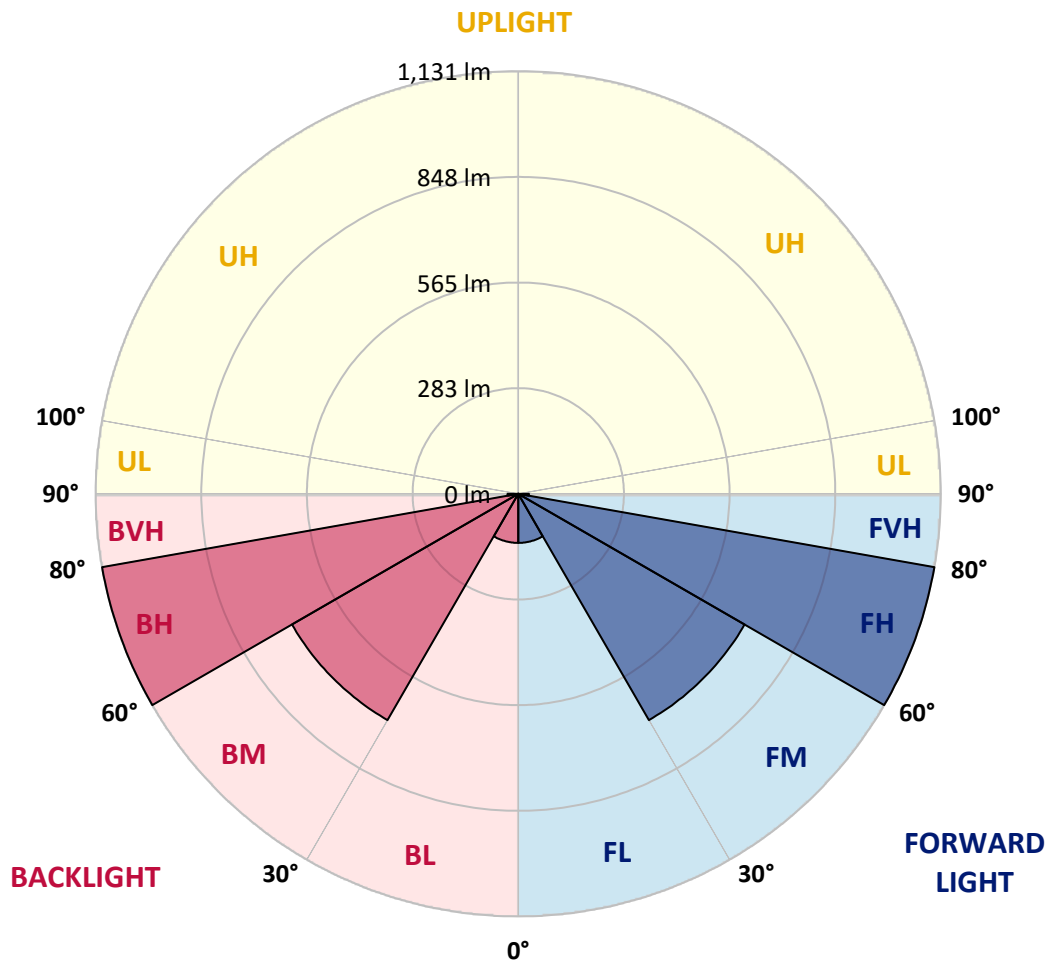
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	131.3	3.3			
FM (30°-60°)	699.1	17.6			
FH (60°-80°)	1130.5	28.4			G1/1800
FVH (80°-90°)	28.5	0.7			G1/100
BL (0°-30°)	131.3	3.3	B1/500		
BM (30°-60°)	699.1	17.6	B1/1000		
BH (60°-80°)	1130.5	28.4	B3/2500		G1/1800
BVH (80°-90°)	28.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	312.2	312.2	312.2	312.2	312.2	312.2	312.2	312.2	312.2	312.2	312.2
2.5°	314.3	313.3	313.3	312.2	311.2	311.2	311.2	310.1	311.2	311.2	311.2
5°	313.3	312.2	311.2	310.1	310.1	309.1	310.1	309.1	309.1	309.1	309.1
7.5°	310.1	310.1	308.1	308.1	307.0	307.0	306.0	306.0	306.0	304.9	304.9
10°	310.1	309.1	308.1	306.0	304.9	304.9	304.9	303.9	304.9	304.9	304.9
12.5°	310.1	310.1	307.0	304.9	302.8	302.8	302.8	302.8	304.9	306.0	306.0
15°	312.2	311.2	308.1	303.9	301.8	301.8	301.8	302.8	304.9	307.0	307.0
17.5°	313.3	311.2	307.0	302.8	301.8	301.8	301.8	302.8	306.0	308.1	309.1
20°	314.3	313.3	308.1	303.9	302.8	302.8	302.8	302.8	306.0	309.1	310.1
22.5°	317.5	316.4	311.2	308.1	307.0	308.1	307.0	307.0	310.1	314.3	314.3
25°	321.6	319.5	314.3	312.2	312.2	314.3	314.3	312.2	315.4	318.5	319.5
27.5°	328.9	326.9	321.6	319.5	318.5	318.5	318.5	318.5	320.6	325.8	325.8
30°	335.2	334.2	332.1	332.1	331.0	328.9	328.9	331.0	332.1	334.2	335.2
32.5°	343.6	341.5	339.4	339.4	345.7	351.9	346.7	338.3	337.3	338.3	339.4
35°	361.3	359.2	354.0	350.9	357.1	363.4	355.1	349.8	353.0	356.1	356.1
37.5°	386.4	385.3	381.2	374.9	372.8	373.9	370.7	374.9	383.2	389.5	390.6
40°	412.5	411.4	407.3	404.1	405.2	410.4	408.3	404.1	409.4	413.5	413.5
42.5°	453.2	449.0	442.8	434.4	435.5	439.6	434.4	438.6	445.9	453.2	454.3
45°	507.5	503.3	495.0	487.7	482.5	484.5	484.5	491.9	500.2	508.6	511.7
47.5°	566.0	565.0	556.6	550.3	545.1	548.2	548.2	548.2	561.8	570.2	570.2
50°	638.1	634.9	634.9	629.7	627.6	628.7	624.5	628.7	634.9	637.0	633.9
52.5°	723.7	720.5	722.6	724.7	729.9	737.3	726.8	725.8	722.6	719.5	718.5
55°	826.0	829.2	837.5	851.1	859.4	874.1	858.4	839.6	831.2	822.9	816.6
57.5°	948.2	953.4	966.0	998.3	1033.8	1047.4	1020.3	985.8	956.6	932.5	937.8
60°	1108.0	1104.8	1125.7	1169.6	1219.7	1246.9	1204.0	1147.7	1100.7	1089.2	1092.3
62.5°	1278.2	1284.5	1299.1	1357.6	1420.2	1449.5	1397.2	1313.7	1253.1	1221.8	1221.8
65°	1384.7	1388.9	1429.6	1512.1	1582.1	1621.8	1547.6	1426.5	1339.8	1287.6	1284.5
67.5°	1400.4	1404.6	1450.5	1556.0	1670.8	1726.2	1597.7	1440.1	1338.8	1275.1	1273.0
69°	1357.6	1360.7	1408.7	1519.4	1663.5	1743.9	1573.7	1396.2	1291.8	1230.2	1232.2
70°	1295.9	1308.5	1345.0	1457.8	1624.9	1728.3	1529.9	1347.1	1238.5	1189.4	1181.1
72.5°	1016.1	1024.4	1085.0	1224.9	1450.5	1568.5	1344.0	1140.3	1029.7	978.5	991.0
75°	575.4	573.3	650.6	851.1	1118.4	1256.3	1057.9	820.8	660.0	598.4	606.7
77.5°	219.3	228.7	280.9	436.5	702.8	858.4	701.8	438.6	307.0	239.1	227.7
80°	71.0	75.2	99.2	158.7	299.7	484.5	327.9	169.2	106.5	80.4	75.2
82.5°	28.2	31.3	37.6	53.3	101.3	182.7	110.7	61.6	45.9	37.6	34.5
85°	15.7	14.6	19.8	24.0	34.5	52.2	37.6	29.2	25.1	17.8	16.7
87.5°	5.2	5.2	8.4	8.4	9.4	8.4	9.4	10.4	10.4	6.3	5.2
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)