

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: P573264

Luminaire Tested: **ARCH-S-PA2-50-827-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573264  
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-PA2-50-827-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6079 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

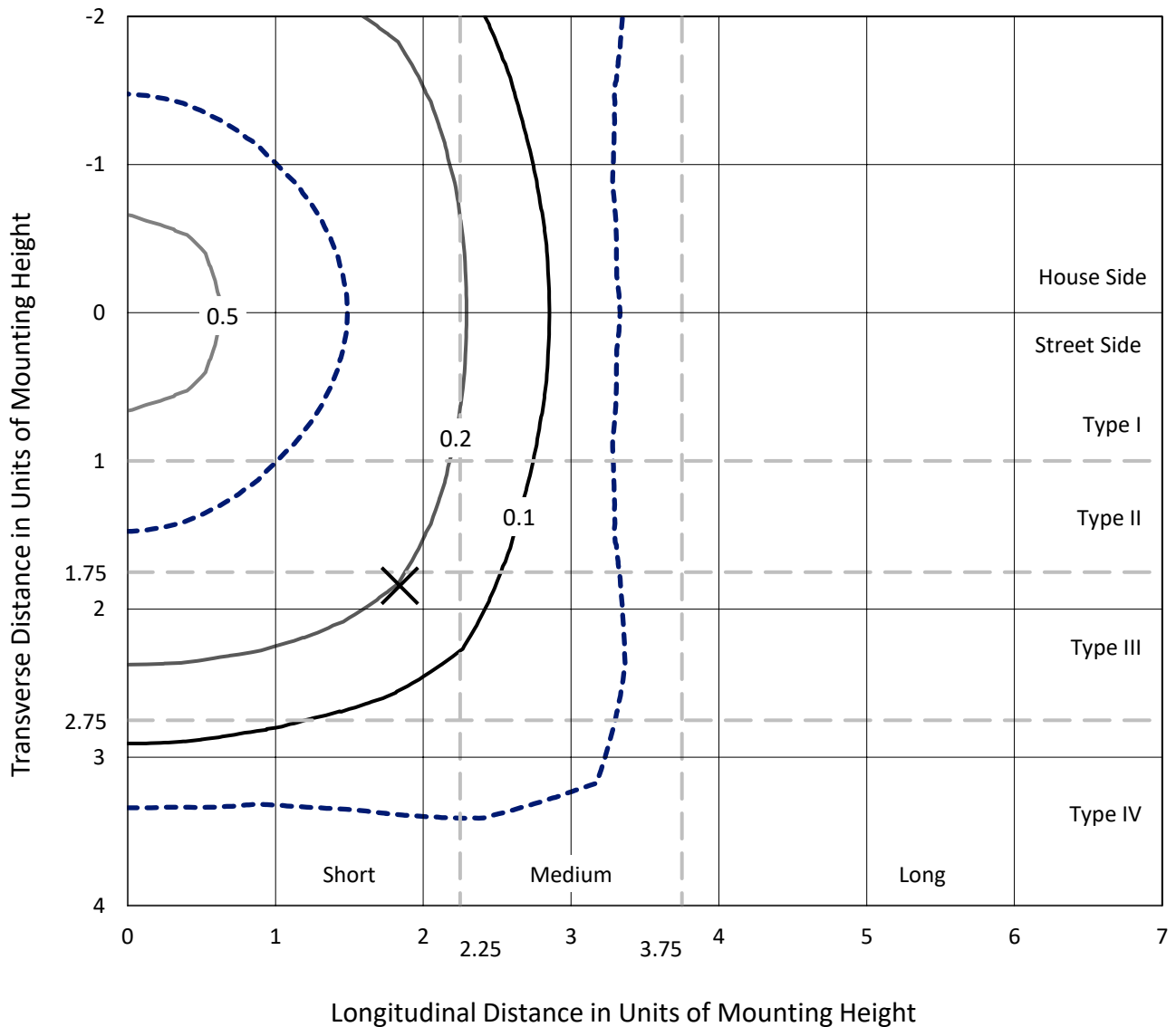
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

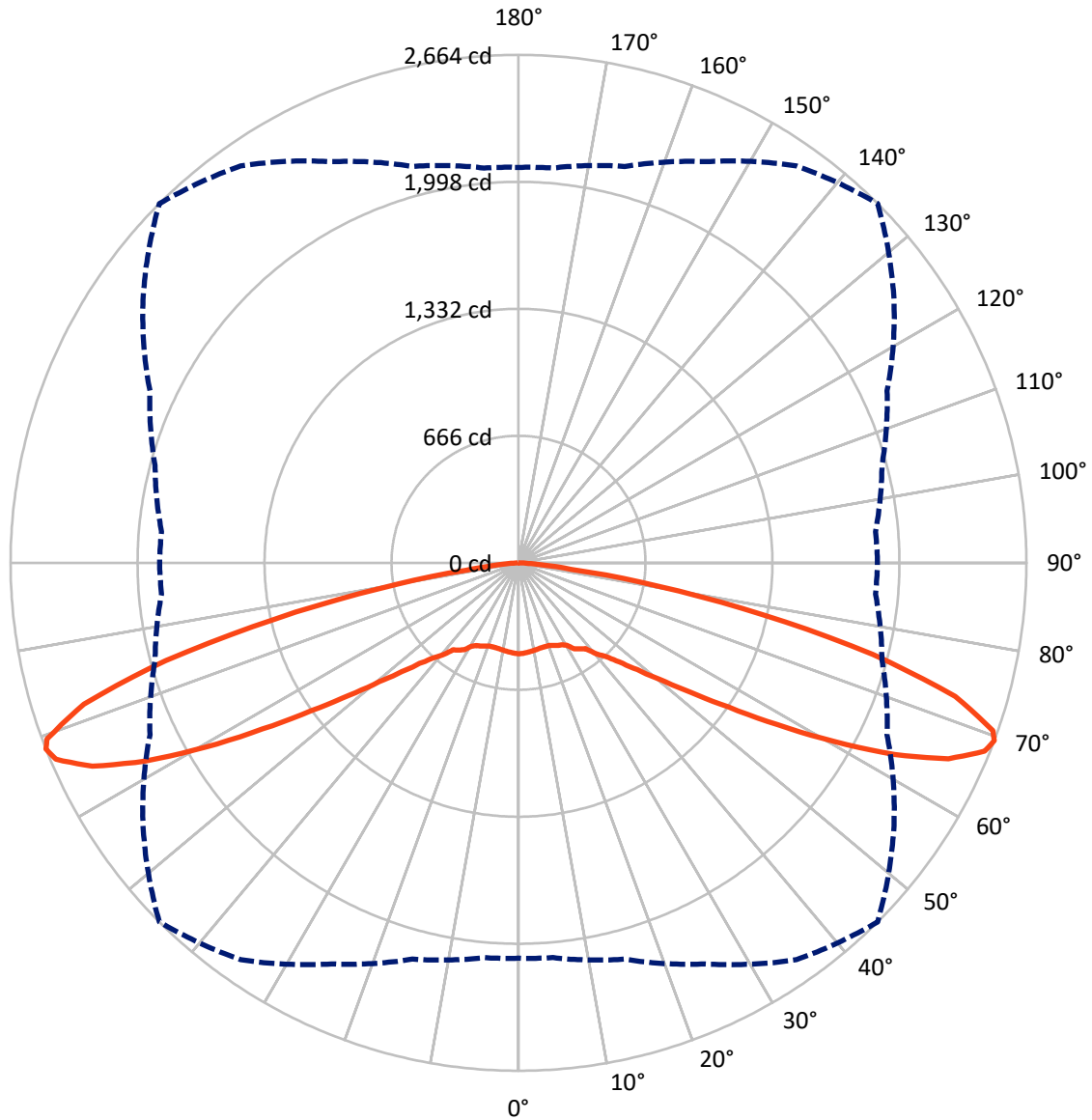
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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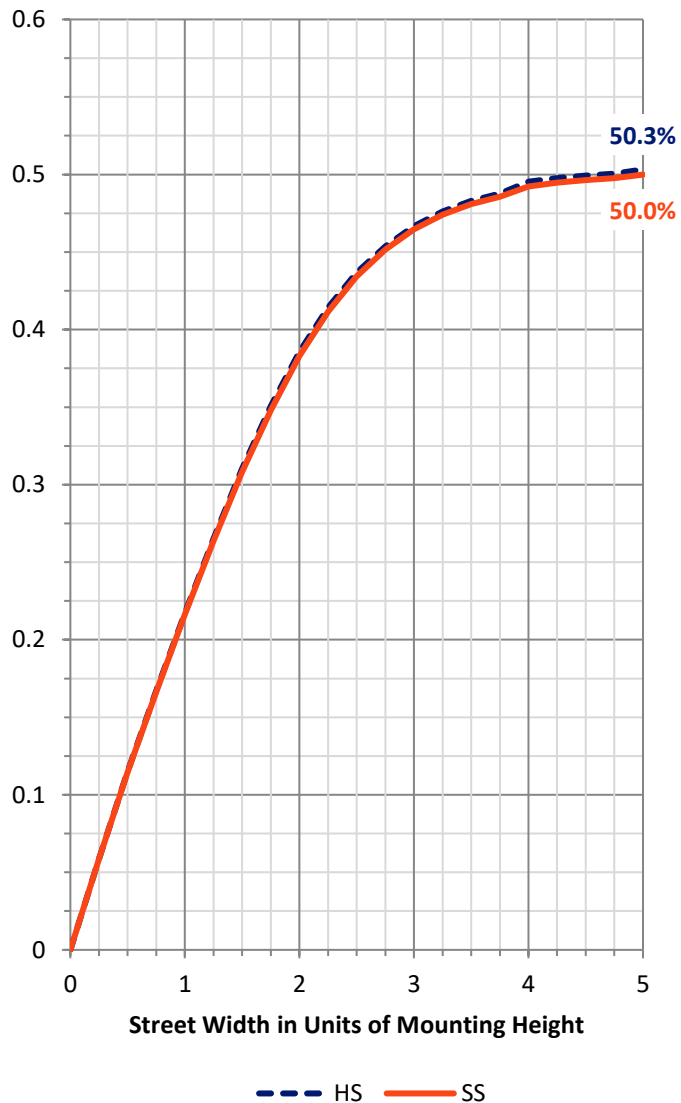
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3039.5	0.0	3039.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3039.5	0.0	3039.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6079.0	0.0	6079.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.0	0.7
10°-20°	132.1	2.2
20°-30°	224.1	3.7
30°-40°	348.4	5.7
40°-50°	598.0	9.8
50°-60°	1189.8	19.6
60°-70°	2119.5	34.9
70°-80°	1334.9	22.0
80°-90°	87.2	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°	6079.0	100.0
0°-180°	6079.0	100.0

**Coefficient of Utilization**



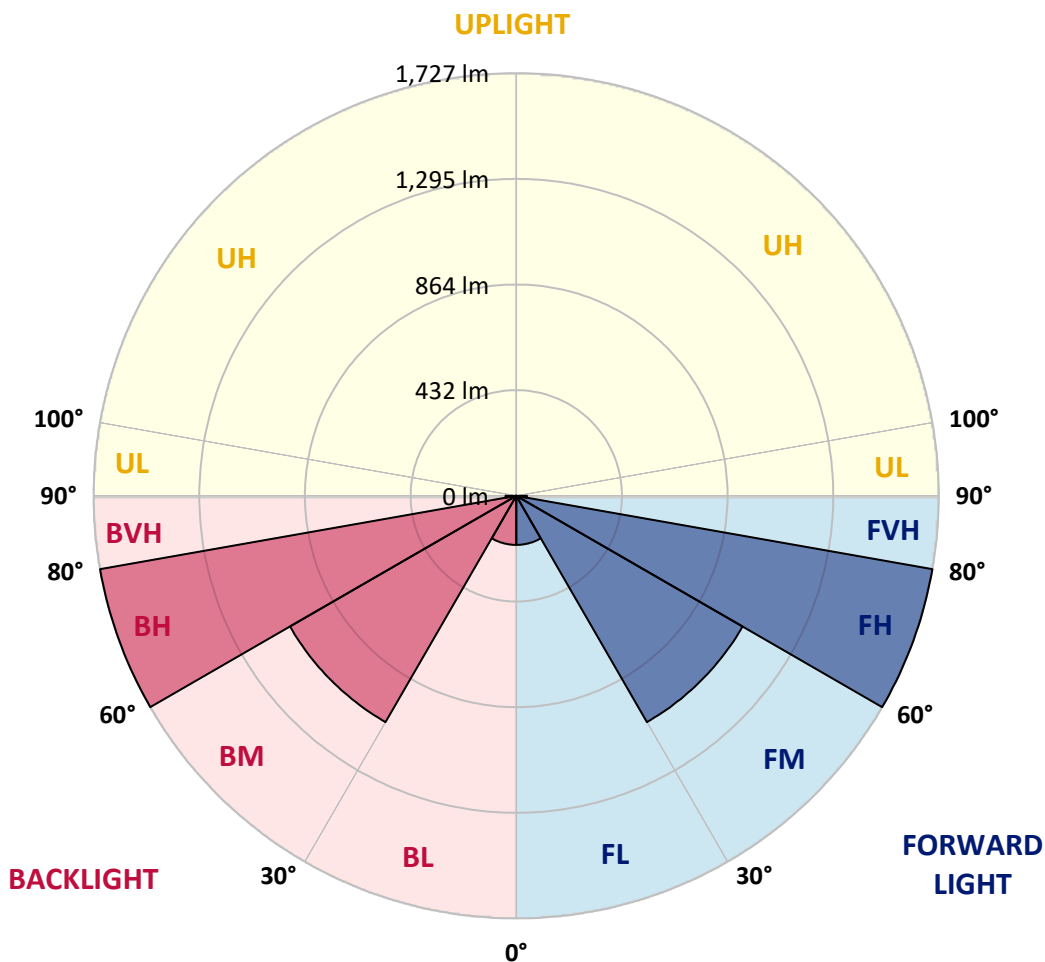
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.6	3.3			
FM (30°-60°)	1068.1	17.6			
FH (60°-80°)	1727.2	28.4			G1/1800
FVH (80°-90°)	43.6	0.7			G1/100
BL (0°-30°)	200.6	3.3	B1/500		
BM (30°-60°)	1068.1	17.6	B2/2500		
BH (60°-80°)	1727.2	28.4	B3/2500		G1/1800
BVH (80°-90°)	43.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0
2.5°	480.2	478.6	478.6	477.0	475.4	475.4	475.4	473.8	475.4	475.4	475.4
5°	478.6	477.0	475.4	473.8	473.8	472.2	473.8	472.2	472.2	472.2	472.2
7.5°	473.8	473.8	470.6	470.6	469.1	469.1	467.5	467.5	467.5	465.9	465.9
10°	473.8	472.2	470.6	467.5	465.9	465.9	465.9	464.3	465.9	465.9	465.9
12.5°	473.8	473.8	469.1	465.9	462.7	462.7	462.7	462.7	465.9	467.5	467.5
15°	477.0	475.4	470.6	464.3	461.1	461.1	461.1	462.7	465.9	469.1	469.1
17.5°	478.6	475.4	469.1	462.7	461.1	461.1	461.1	462.7	467.5	470.6	472.2
20°	480.2	478.6	470.6	464.3	462.7	462.7	462.7	462.7	467.5	472.2	473.8
22.5°	485.0	483.4	475.4	470.6	469.1	470.6	469.1	469.1	473.8	480.2	480.2
25°	491.4	488.2	480.2	477.0	477.0	480.2	480.2	477.0	481.8	486.6	488.2
27.5°	502.6	499.4	491.4	488.2	486.6	486.6	486.6	486.6	489.8	497.8	497.8
30°	512.1	510.5	507.3	507.3	505.7	502.6	502.6	505.7	507.3	510.5	512.1
32.5°	524.9	521.7	518.5	518.5	528.1	537.7	529.7	516.9	515.3	516.9	518.5
35°	552.0	548.8	540.8	536.1	545.6	555.2	542.4	534.5	539.2	544.0	544.0
37.5°	590.3	588.7	582.3	572.8	569.6	571.2	566.4	572.8	585.5	595.1	596.7
40°	630.2	628.6	622.2	617.4	619.0	627.0	623.8	617.4	625.4	631.8	631.8
42.5°	692.4	686.0	676.5	663.7	665.3	671.7	663.7	670.1	681.2	692.4	694.0
45°	775.4	769.0	756.2	745.1	737.1	740.3	740.3	751.4	764.2	777.0	781.8
47.5°	864.7	863.1	850.4	840.8	832.8	837.6	837.6	837.6	858.3	871.1	871.1
50°	974.8	970.0	970.0	962.0	958.8	960.4	954.1	960.4	970.0	973.2	968.4
52.5°	1105.6	1100.8	1104.0	1107.2	1115.2	1126.4	1110.4	1108.8	1104.0	1099.2	1097.6
55°	1262.0	1266.8	1279.5	1300.3	1313.0	1335.4	1311.4	1282.7	1269.9	1257.2	1247.6
57.5°	1448.6	1456.6	1475.8	1525.2	1579.5	1600.2	1558.7	1506.1	1461.4	1424.7	1432.7
60°	1692.7	1687.9	1719.9	1786.9	1863.4	1904.9	1839.5	1753.4	1681.6	1664.0	1668.8
62.5°	1952.8	1962.4	1984.7	2074.0	2169.8	2214.4	2134.7	2007.0	1914.5	1866.6	1866.6
65°	2115.5	2121.9	2184.1	2310.2	2417.1	2477.7	2364.4	2179.3	2046.9	1967.1	1962.4
67.5°	2139.4	2145.8	2216.0	2377.2	2552.7	2637.2	2441.0	2200.1	2045.3	1948.0	1944.8
69°	2074.0	2078.8	2152.2	2321.3	2541.5	2664.3	2404.3	2133.1	1973.5	1879.4	1882.6
70°	1979.9	1999.1	2054.9	2227.2	2482.5	2640.4	2337.3	2058.1	1892.2	1817.2	1804.4
72.5°	1552.3	1565.1	1657.6	1871.4	2216.0	2396.3	2053.3	1742.2	1573.1	1494.9	1514.0
75°	879.1	875.9	993.9	1300.3	1708.7	1919.3	1616.2	1254.0	1008.3	914.2	926.9
77.5°	335.0	349.4	429.2	666.9	1073.7	1311.4	1072.1	670.1	469.1	365.3	347.8
80°	108.5	114.9	151.6	242.5	457.9	740.3	501.0	258.5	162.7	122.8	114.9
82.5°	43.1	47.9	57.4	81.4	154.8	279.2	169.1	94.1	70.2	57.4	52.6
85°	23.9	22.3	30.3	36.7	52.6	79.8	57.4	44.7	38.3	27.1	25.5
87.5°	8.0	8.0	12.8	12.8	14.4	12.8	14.4	16.0	16.0	9.6	8.0
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)