

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: P573597

Luminaire Tested: **ARCH-S-PA2-90-830-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573597  
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-PA2-90-830-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10525 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

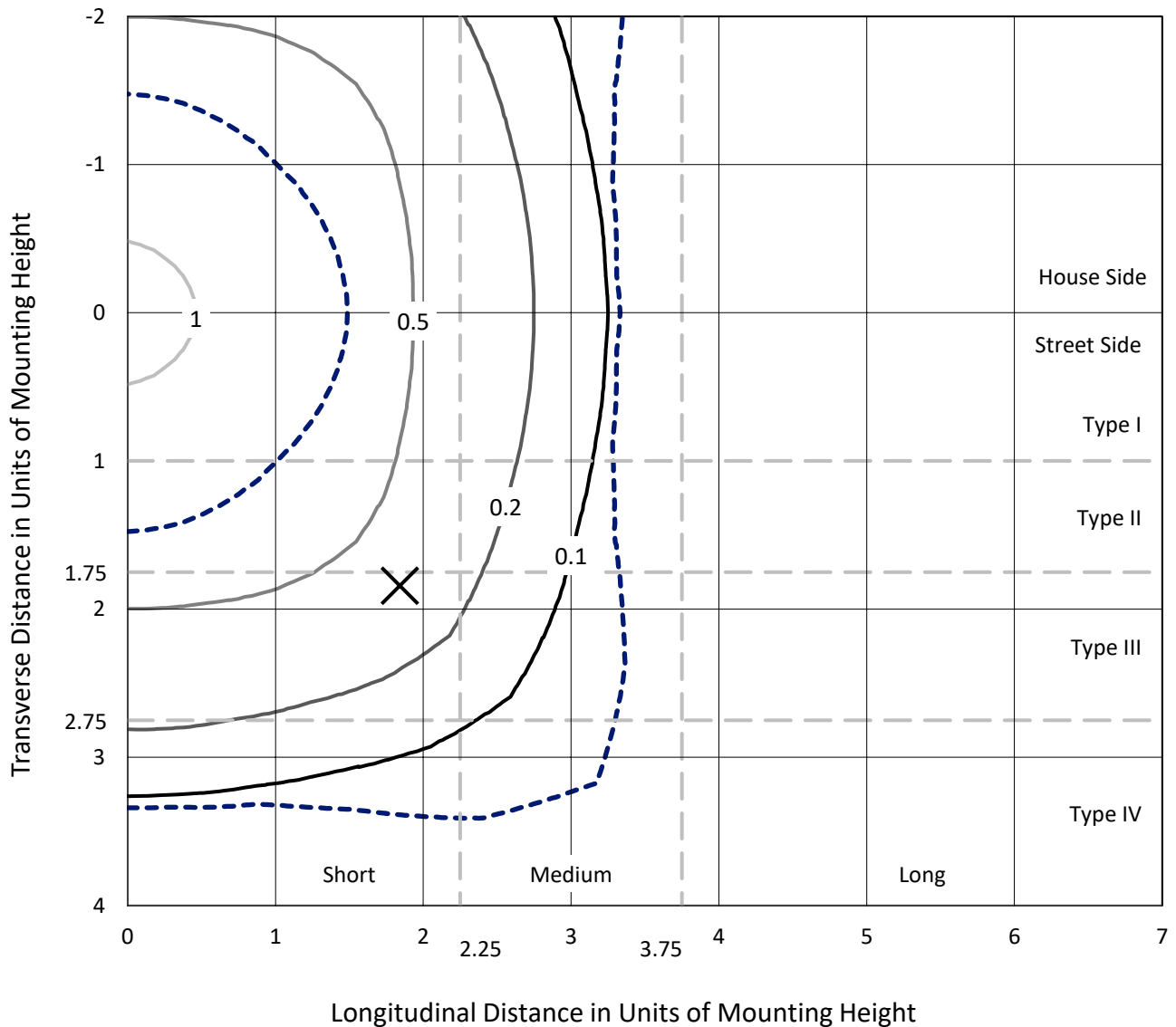
Input Watts (W): 92.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

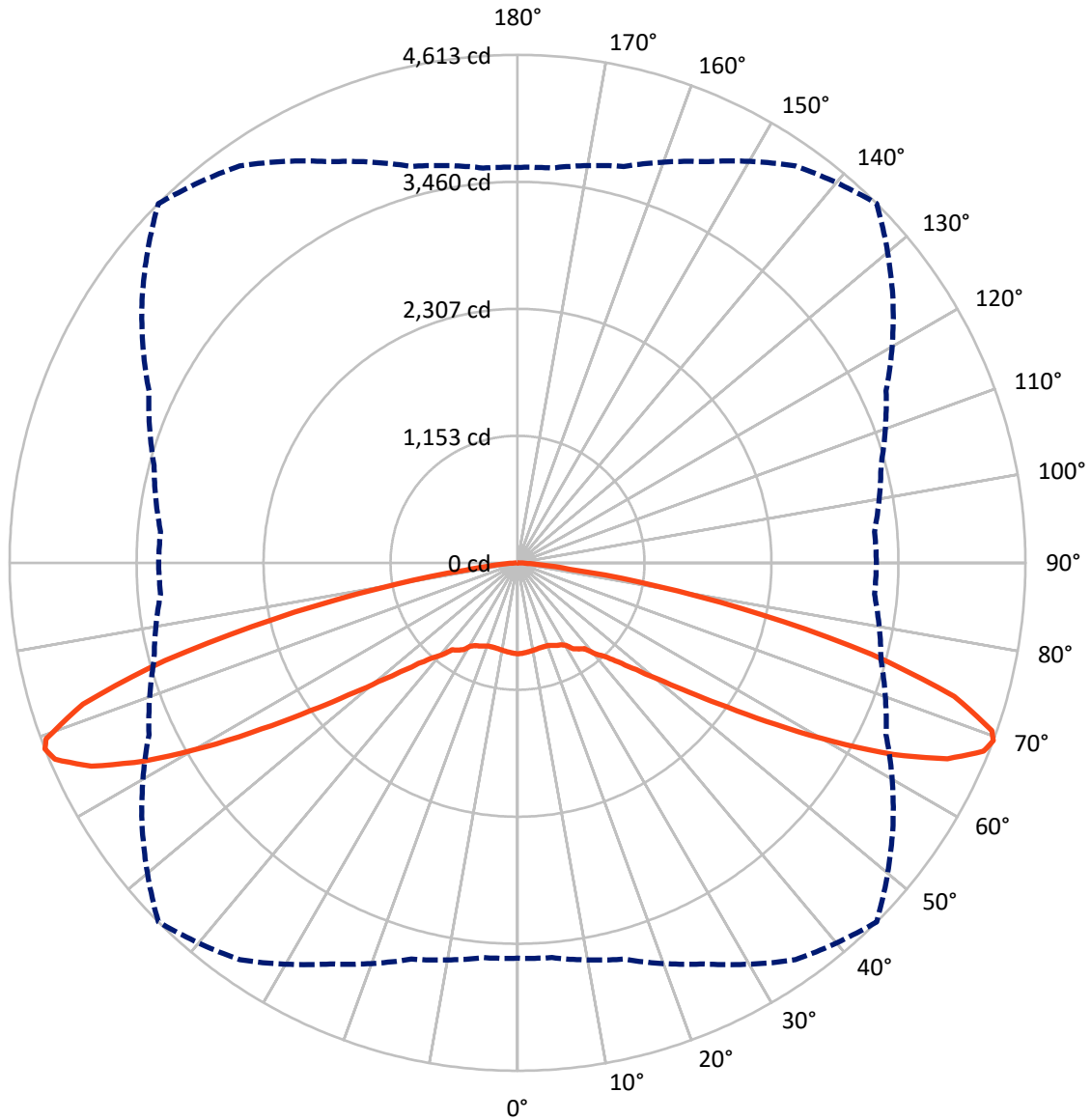
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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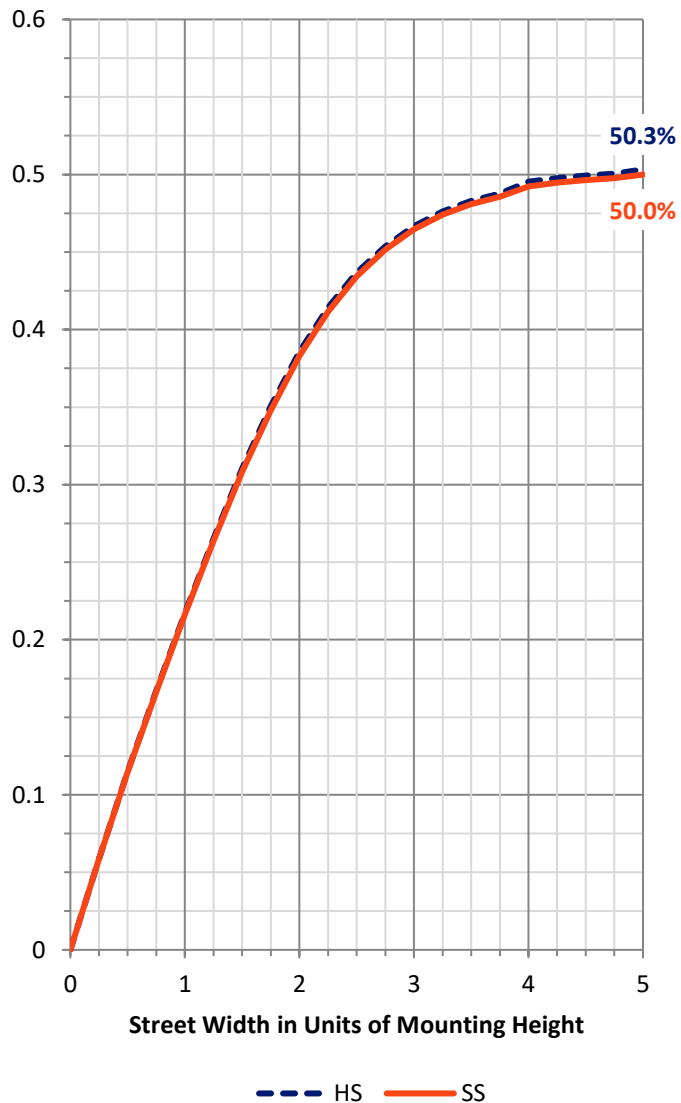
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5262.5	0.0	5262.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5262.5	0.0	5262.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10525.0	0.0	10525.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.8	0.7
10°-20°	228.8	2.2
20°-30°	387.9	3.7
30°-40°	603.2	5.7
40°-50°	1035.4	9.8
50°-60°	2060.1	19.6
60°-70°	3669.7	34.9
70°-80°	2311.1	22.0
80°-90°	150.9	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°	10525.0	100.0
0°-180°	10525.0	100.0

**Coefficient of Utilization**

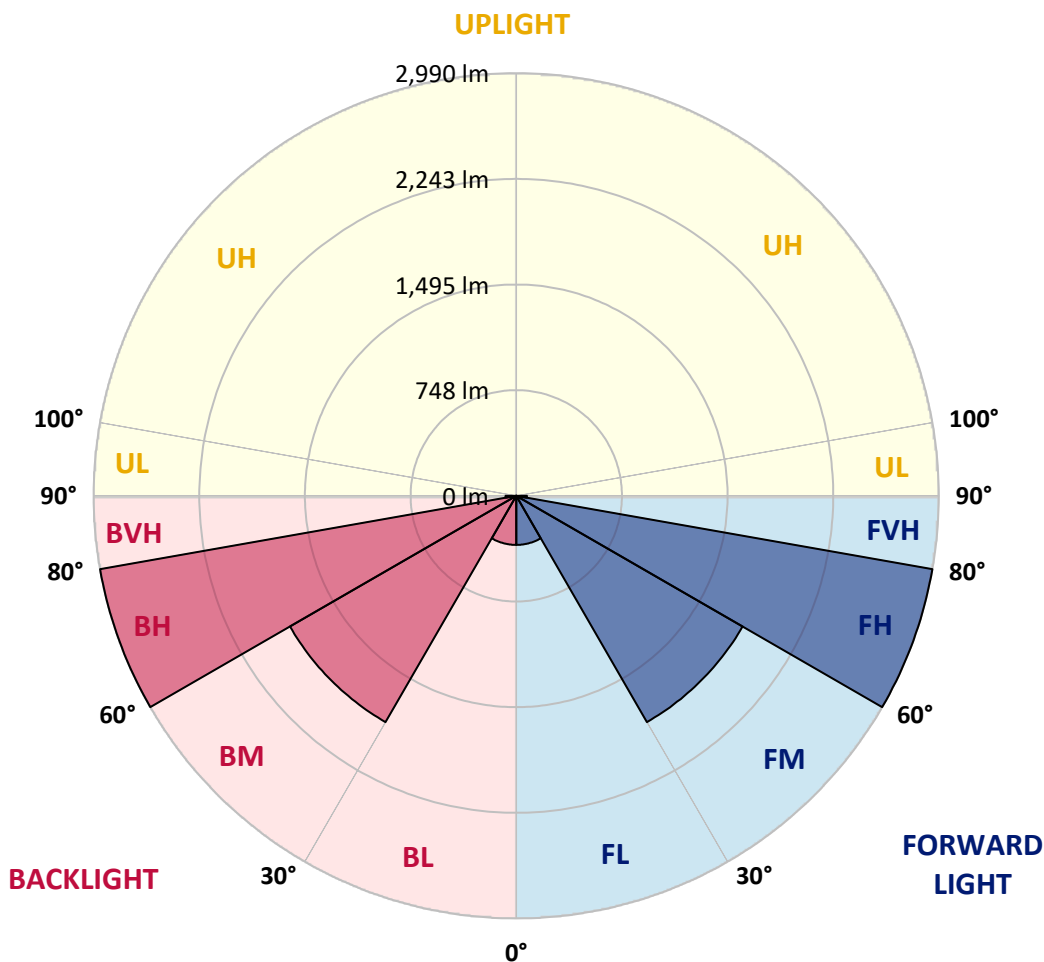


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.3	3.3			
FM (30°-60°)	1849.3	17.6			
FH (60°-80°)	2990.4	28.4			G2/5000
FVH (80°-90°)	75.5	0.7			G1/100
BL (0°-30°)	347.3	3.3	B1/500		
BM (30°-60°)	1849.3	17.6	B2/2500		
BH (60°-80°)	2990.4	28.4	B4/5000		G2/5000
BVH (80°-90°)	75.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9	825.9
2.5°	831.4	828.7	828.7	825.9	823.2	823.2	823.2	820.4	823.2	823.2	823.2
5°	828.7	825.9	823.2	820.4	820.4	817.6	820.4	817.6	817.6	817.6	817.6
7.5°	820.4	820.4	814.9	814.9	812.1	812.1	809.3	809.3	809.3	806.6	806.6
10°	820.4	817.6	814.9	809.3	806.6	806.6	806.6	803.8	806.6	806.6	806.6
12.5°	820.4	820.4	812.1	806.6	801.1	801.1	801.1	801.1	806.6	809.3	809.3
15°	825.9	823.2	814.9	803.8	798.3	798.3	798.3	801.1	806.6	812.1	812.1
17.5°	828.7	823.2	812.1	801.1	798.3	798.3	798.3	801.1	809.3	814.9	817.6
20°	831.4	828.7	814.9	803.8	801.1	801.1	801.1	801.1	809.3	817.6	820.4
22.5°	839.7	837.0	823.2	814.9	812.1	814.9	812.1	812.1	820.4	831.4	831.4
25°	850.8	845.2	831.4	825.9	825.9	831.4	831.4	825.9	834.2	842.5	845.2
27.5°	870.1	864.6	850.8	845.2	842.5	842.5	842.5	842.5	848.0	861.8	861.8
30°	886.7	883.9	878.4	878.4	875.6	870.1	870.1	875.6	878.4	883.9	886.7
32.5°	908.8	903.3	897.7	897.7	914.3	930.9	917.1	895.0	892.2	895.0	897.7
35°	955.7	950.2	936.4	928.1	944.7	961.3	939.2	925.4	933.6	941.9	941.9
37.5°	1022.0	1019.3	1008.2	991.6	986.1	988.9	980.6	991.6	1013.7	1030.3	1033.1
40°	1091.1	1088.3	1077.3	1069.0	1071.8	1085.6	1080.0	1069.0	1082.8	1093.9	1093.9
42.5°	1198.8	1187.8	1171.2	1149.1	1151.9	1162.9	1149.1	1160.1	1179.5	1198.8	1201.6
45°	1342.5	1331.4	1309.3	1290.0	1276.2	1281.7	1281.7	1301.0	1323.1	1345.2	1353.5
47.5°	1497.1	1494.4	1472.3	1455.7	1441.9	1450.2	1450.2	1450.2	1486.1	1508.2	1508.2
50°	1687.7	1679.4	1679.4	1665.6	1660.1	1662.9	1651.8	1662.9	1679.4	1685.0	1676.7
52.5°	1914.2	1906.0	1911.5	1917.0	1930.8	1950.1	1922.5	1919.8	1911.5	1903.2	1900.4
55°	2184.9	2193.2	2215.3	2251.2	2273.3	2312.0	2270.6	2220.8	2198.8	2176.7	2160.1
57.5°	2508.1	2521.9	2555.1	2640.7	2734.6	2770.5	2698.7	2607.6	2530.2	2466.7	2480.5
60°	2930.7	2922.5	2977.7	3093.7	3226.3	3298.1	3184.9	3035.7	2911.4	2881.0	2889.3
62.5°	3381.0	3397.6	3436.2	3590.9	3756.7	3834.0	3695.9	3474.9	3314.7	3231.8	3231.8
65°	3662.7	3673.8	3781.5	3999.7	4184.8	4289.8	4093.7	3773.2	3544.0	3405.9	3397.6
67.5°	3704.2	3715.2	3836.8	4115.8	4419.6	4566.0	4226.2	3809.1	3541.2	3372.7	3367.2
69°	3590.9	3599.2	3726.3	4019.1	4400.3	4613.0	4162.7	3693.1	3416.9	3253.9	3259.5
70°	3428.0	3461.1	3557.8	3856.1	4298.1	4571.5	4046.7	3563.3	3276.0	3146.2	3124.1
72.5°	2687.7	2709.8	2870.0	3240.1	3836.8	4148.9	3555.0	3016.4	2723.6	2588.2	2621.4
75°	1522.0	1516.5	1720.9	2251.2	2958.4	3323.0	2798.2	2171.1	1745.7	1582.8	1604.9
77.5°	580.1	604.9	743.0	1154.6	1859.0	2270.6	1856.2	1160.1	812.1	632.6	602.2
80°	187.8	198.9	262.4	419.9	792.8	1281.7	867.3	447.5	281.7	212.7	198.9
82.5°	74.6	82.9	99.4	140.9	267.9	483.4	292.8	163.0	121.5	99.4	91.2
85°	41.4	38.7	52.5	63.5	91.2	138.1	99.4	77.3	66.3	47.0	44.2
87.5°	13.8	13.8	22.1	22.1	24.9	22.1	24.9	27.6	27.6	16.6	13.8
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)