

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: P572994

Luminaire Tested: **ARCH-S-PA2-20-740-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572994  
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-PA2-20-740-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 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: 3810.1 lumens  
Efficiency: N/A  
Efficacy: 162.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

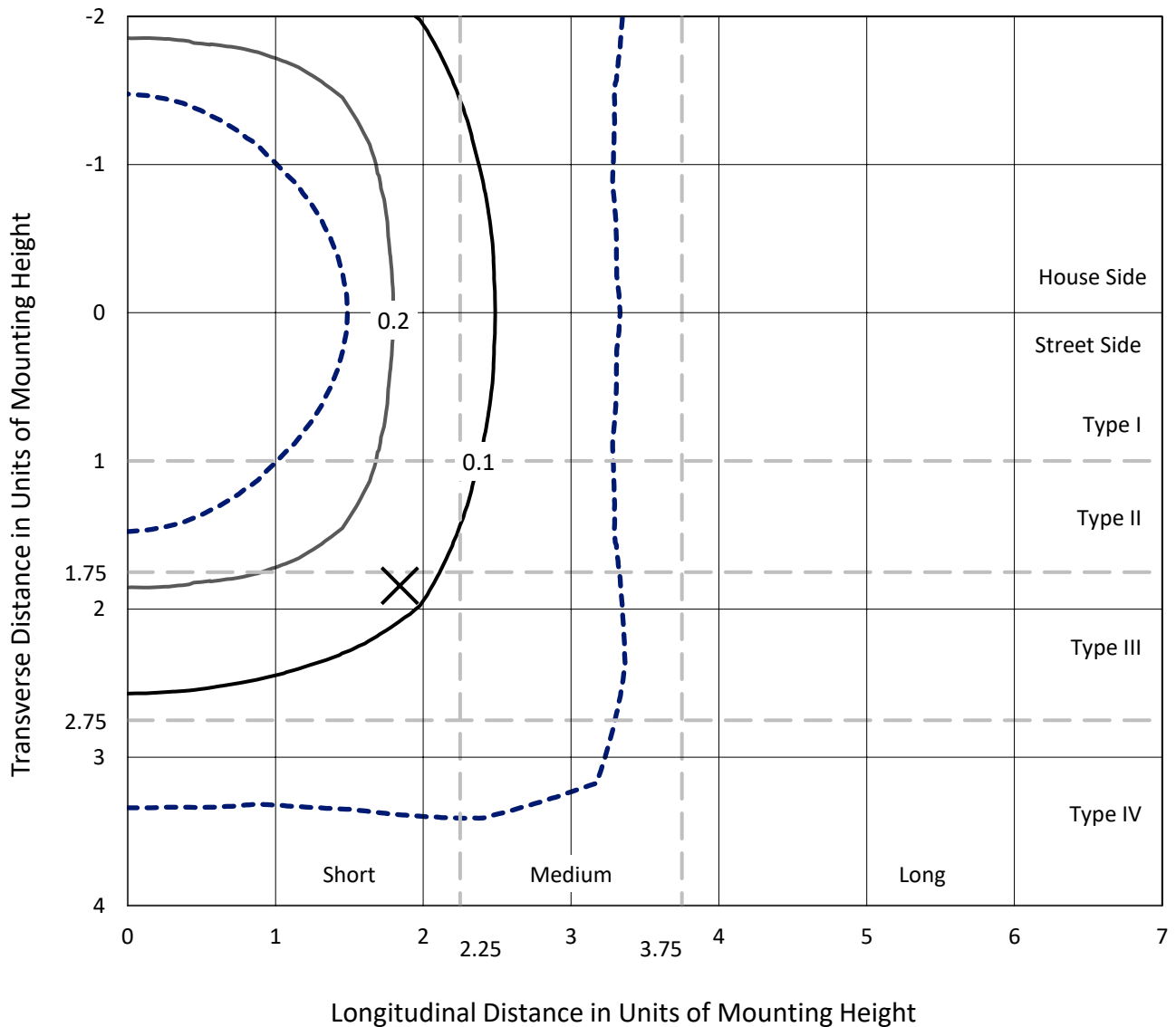
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

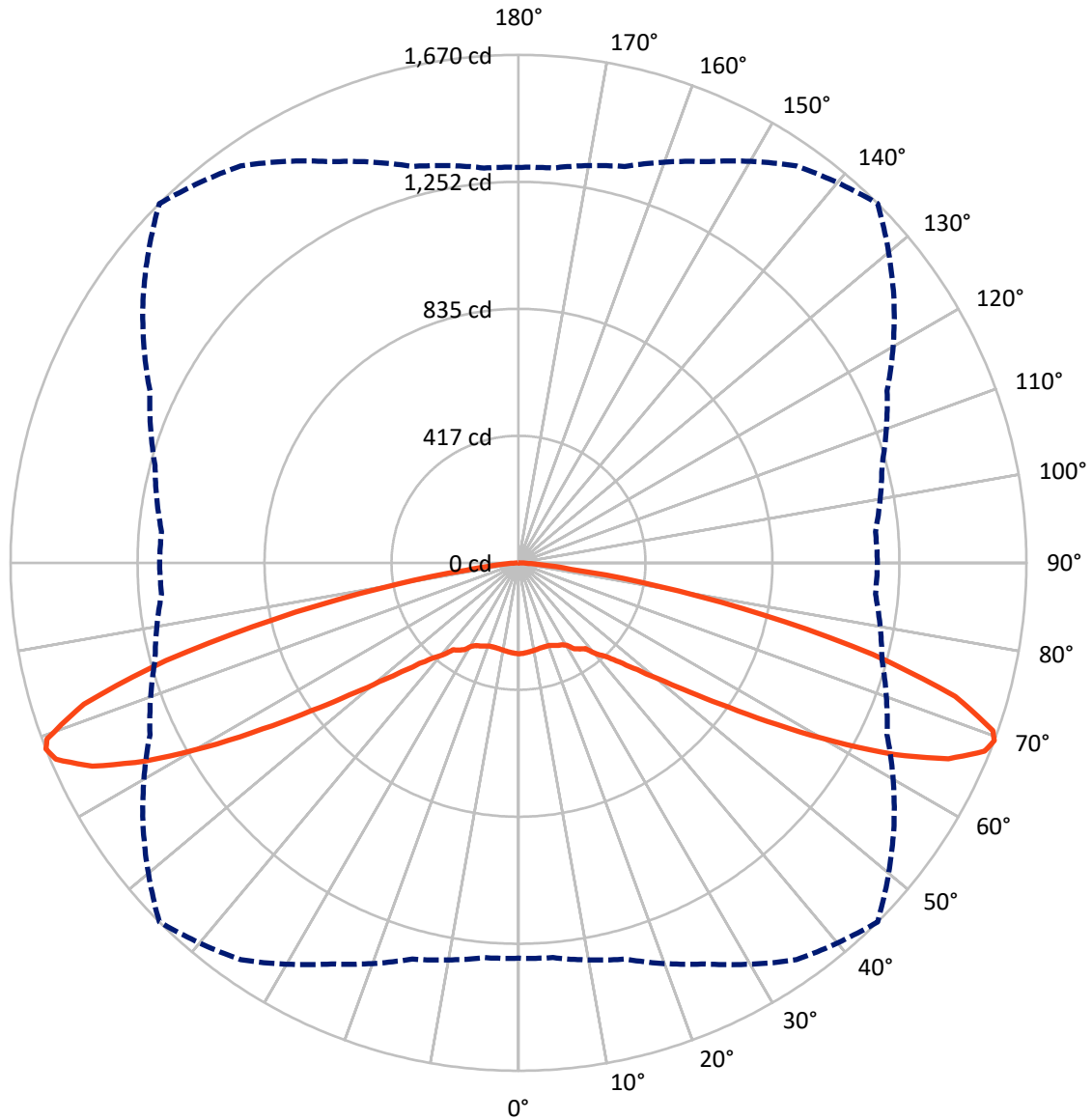
× Max cd  
 - - - 1/2 Max cd



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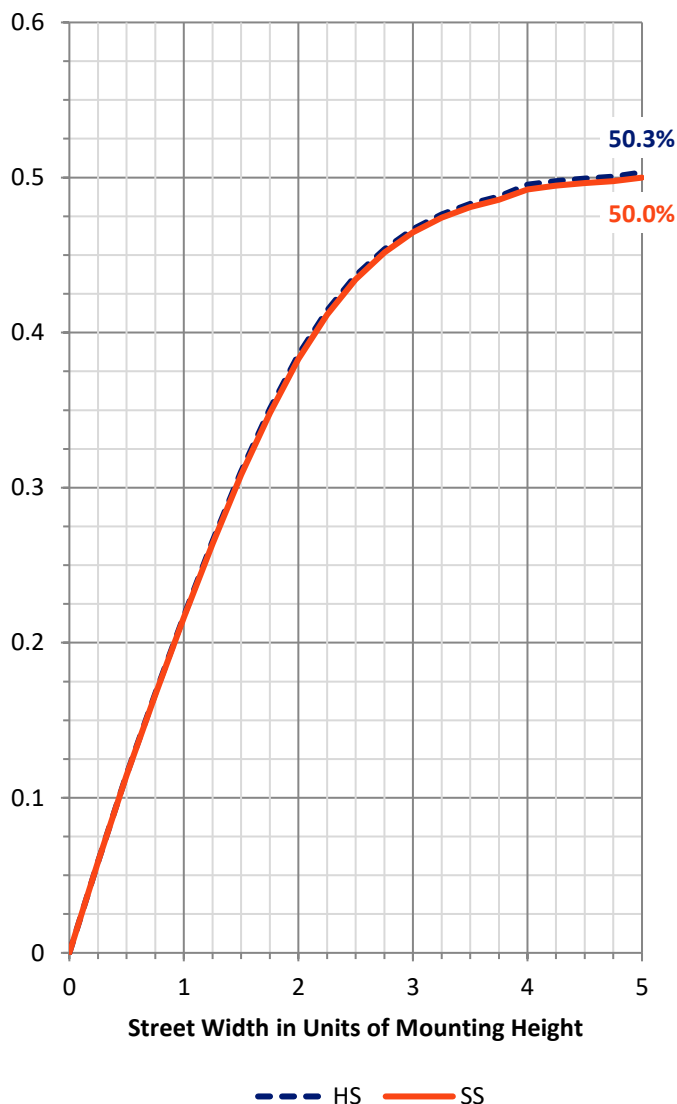
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1905.0	0.0	1905.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1905.0	0.0	1905.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3810.1	0.0	3810.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.2	0.7
10°-20°	82.8	2.2
20°-30°	140.4	3.7
30°-40°	218.4	5.7
40°-50°	374.8	9.8
50°-60°	745.7	19.6
60°-70°	1328.4	34.9
70°-80°	836.6	22.0
80°-90°	54.6	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°	3810.1	100.0
0°-180°	3810.1	100.0

**Coefficient of Utilization**

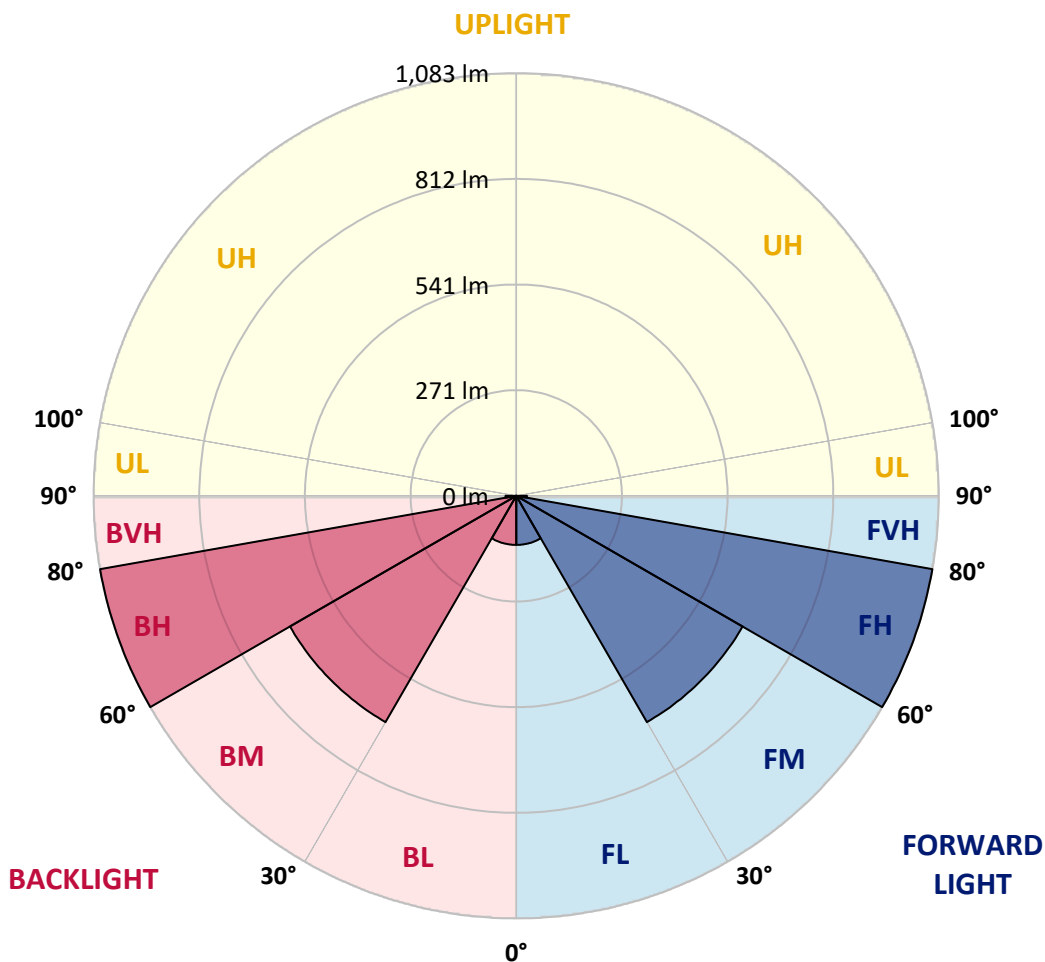


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	125.7	3.3			
FM (30°-60°)	669.5	17.6			
FH (60°-80°)	1082.5	28.4			G1/1800
FVH (80°-90°)	27.3	0.7			G1/100
BL (0°-30°)	125.7	3.3	B1/500		
BM (30°-60°)	669.5	17.6	B1/1000		
BH (60°-80°)	1082.5	28.4	B3/2500		G1/1800
BVH (80°-90°)	27.3	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°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0
2.5°	301.0	300.0	300.0	299.0	298.0	298.0	298.0	297.0	298.0	298.0	298.0
5°	300.0	299.0	298.0	297.0	297.0	296.0	297.0	296.0	296.0	296.0	296.0
7.5°	297.0	297.0	295.0	295.0	294.0	294.0	293.0	293.0	293.0	292.0	292.0
10°	297.0	296.0	295.0	293.0	292.0	292.0	292.0	291.0	292.0	292.0	292.0
12.5°	297.0	297.0	294.0	292.0	290.0	290.0	290.0	290.0	292.0	293.0	293.0
15°	299.0	298.0	295.0	291.0	289.0	289.0	289.0	290.0	292.0	294.0	294.0
17.5°	300.0	298.0	294.0	290.0	289.0	289.0	289.0	290.0	293.0	295.0	296.0
20°	301.0	300.0	295.0	291.0	290.0	290.0	290.0	290.0	293.0	296.0	297.0
22.5°	304.0	303.0	298.0	295.0	294.0	294.0	294.0	294.0	297.0	301.0	301.0
25°	308.0	306.0	301.0	299.0	299.0	301.0	301.0	299.0	302.0	305.0	306.0
27.5°	315.0	313.0	308.0	306.0	305.0	305.0	305.0	305.0	307.0	312.0	312.0
30°	321.0	320.0	318.0	318.0	317.0	315.0	315.0	317.0	318.0	320.0	321.0
32.5°	329.0	327.0	325.0	325.0	331.0	337.0	332.0	324.0	323.0	324.0	325.0
35°	346.0	344.0	339.0	336.0	342.0	348.0	340.0	335.0	338.0	341.0	341.0
37.5°	370.0	369.0	365.0	359.0	357.0	358.0	355.0	359.0	367.0	373.0	374.0
40°	395.0	394.0	390.0	387.0	388.0	393.0	391.0	387.0	392.0	396.0	396.0
42.5°	434.0	430.0	424.0	416.0	417.0	421.0	416.0	420.0	427.0	434.0	435.0
45°	486.0	482.0	474.0	467.0	462.0	464.0	464.0	471.0	479.0	487.0	490.0
47.5°	542.0	541.0	533.0	527.0	522.0	525.0	525.0	525.0	538.0	546.0	546.0
50°	611.0	608.0	608.0	603.0	601.0	602.0	598.0	602.0	608.0	610.0	607.0
52.5°	692.9	689.9	691.9	693.9	698.9	705.9	695.9	694.9	691.9	688.9	687.9
55°	790.9	793.9	801.9	814.9	822.9	836.9	821.9	803.9	795.9	787.9	781.9
57.5°	907.9	912.9	924.9	955.9	989.9	1002.9	976.9	943.9	915.9	892.9	897.9
60°	1060.9	1057.9	1077.9	1119.9	1167.9	1193.9	1152.9	1098.9	1053.9	1042.9	1045.9
62.5°	1223.9	1229.9	1243.9	1299.9	1359.9	1387.9	1337.9	1257.9	1199.9	1169.9	1169.9
65°	1325.9	1329.9	1368.9	1447.9	1514.9	1552.9	1481.9	1365.9	1282.9	1232.9	1229.9
67.5°	1340.9	1344.9	1388.9	1489.9	1599.9	1652.9	1529.9	1378.9	1281.9	1220.9	1218.9
69°	1299.9	1302.9	1348.9	1454.9	1592.9	1669.9	1506.9	1336.9	1236.9	1177.9	1179.9
70°	1240.9	1252.9	1287.9	1395.9	1555.9	1654.9	1464.9	1289.9	1185.9	1138.9	1130.9
72.5°	972.9	980.9	1038.9	1172.9	1388.9	1501.9	1286.9	1091.9	985.9	936.9	948.9
75°	551.0	549.0	623.0	814.9	1070.9	1202.9	1012.9	785.9	632.0	573.0	581.0
77.5°	210.0	219.0	269.0	418.0	672.9	821.9	671.9	420.0	294.0	229.0	218.0
80°	68.0	72.0	95.0	152.0	287.0	464.0	314.0	162.0	102.0	77.0	72.0
82.5°	27.0	30.0	36.0	51.0	97.0	175.0	106.0	59.0	44.0	36.0	33.0
85°	15.0	14.0	19.0	23.0	33.0	50.0	36.0	28.0	24.0	17.0	16.0
87.5°	5.0	5.0	8.0	8.0	9.0	8.0	9.0	10.0	10.0	6.0	5.0
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)