

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: P572949

Luminaire Tested: **ARCH-S-PA2-130-830-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572949  
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-PA2-130-830-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13290 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

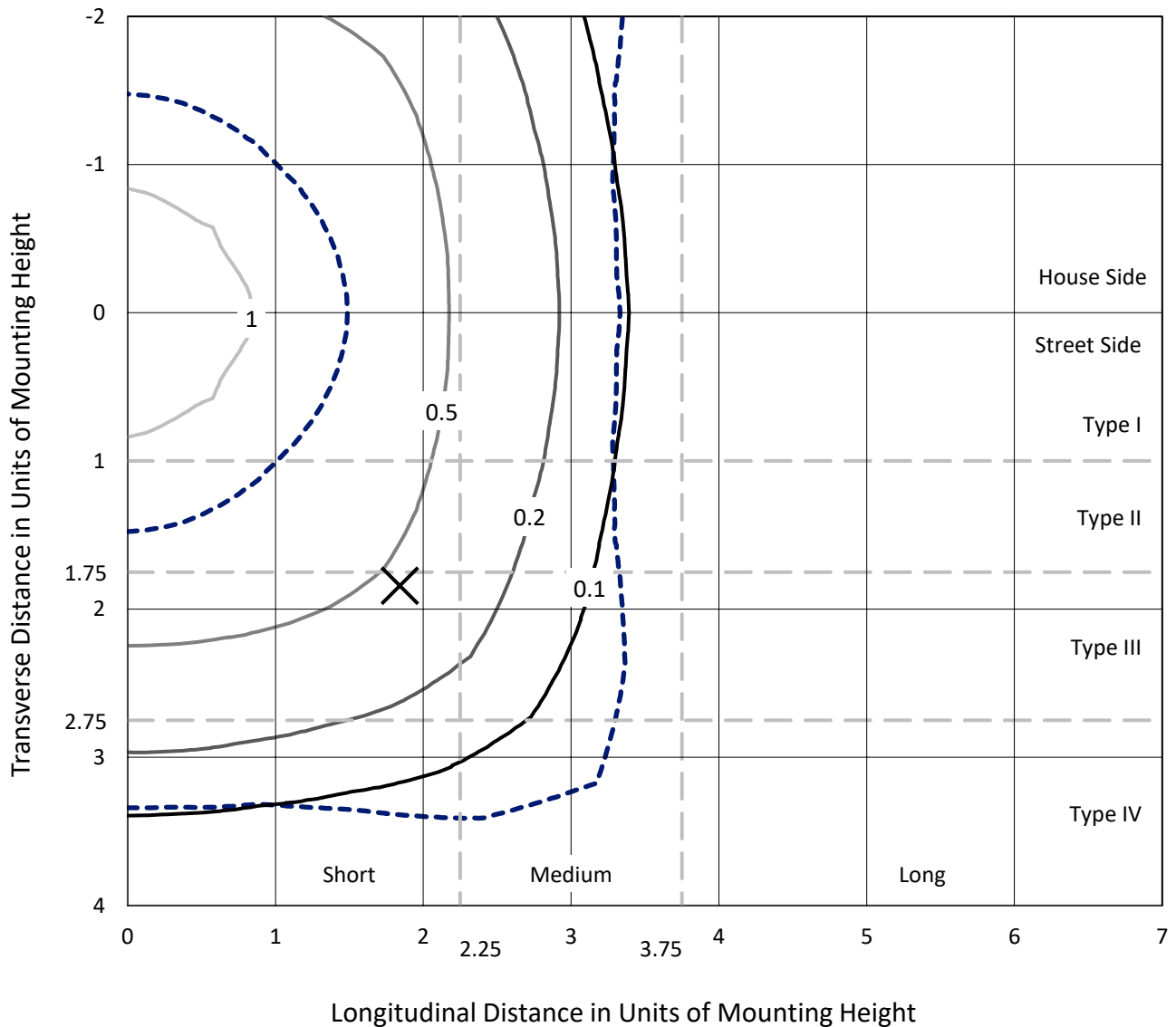
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

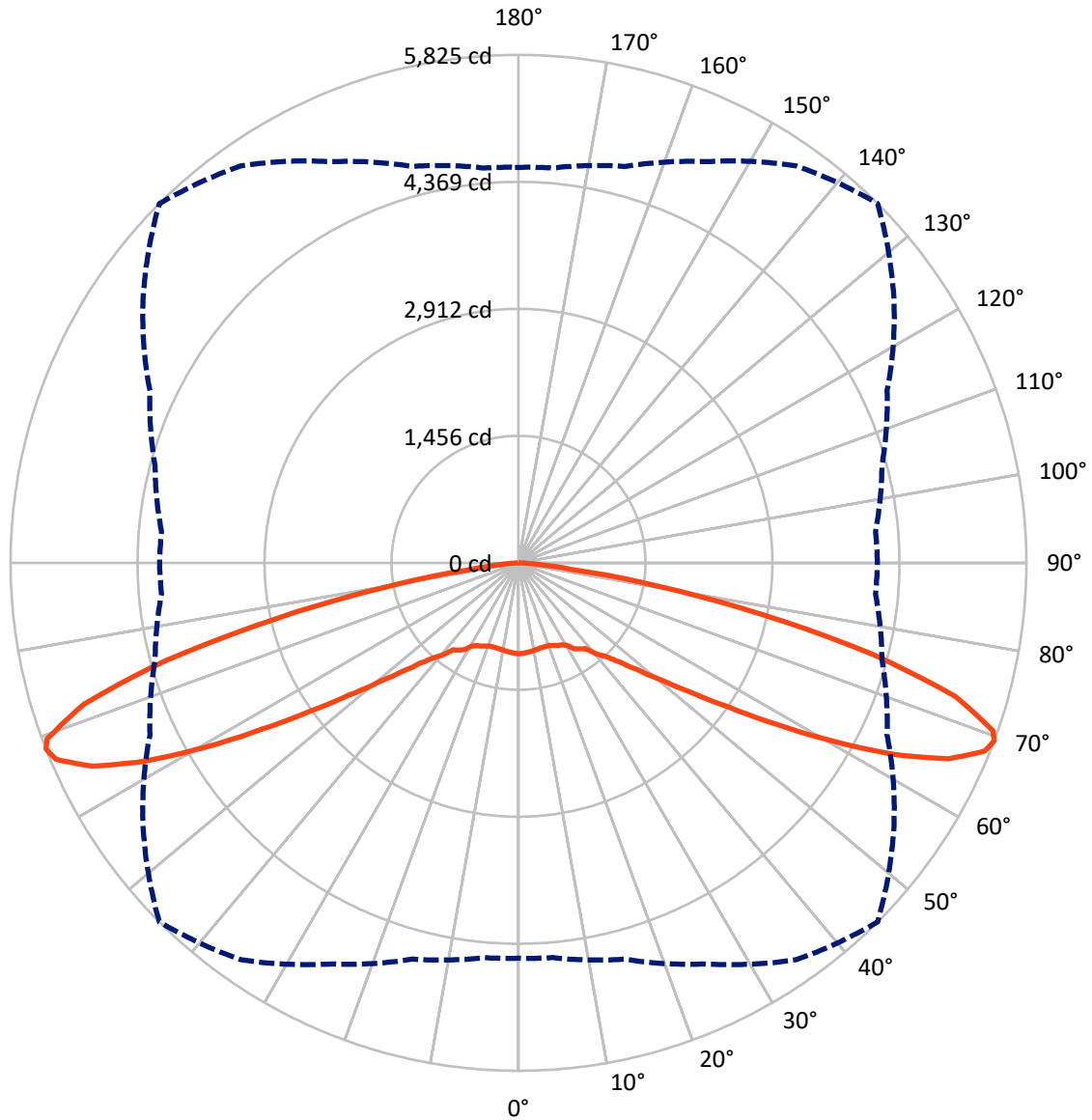
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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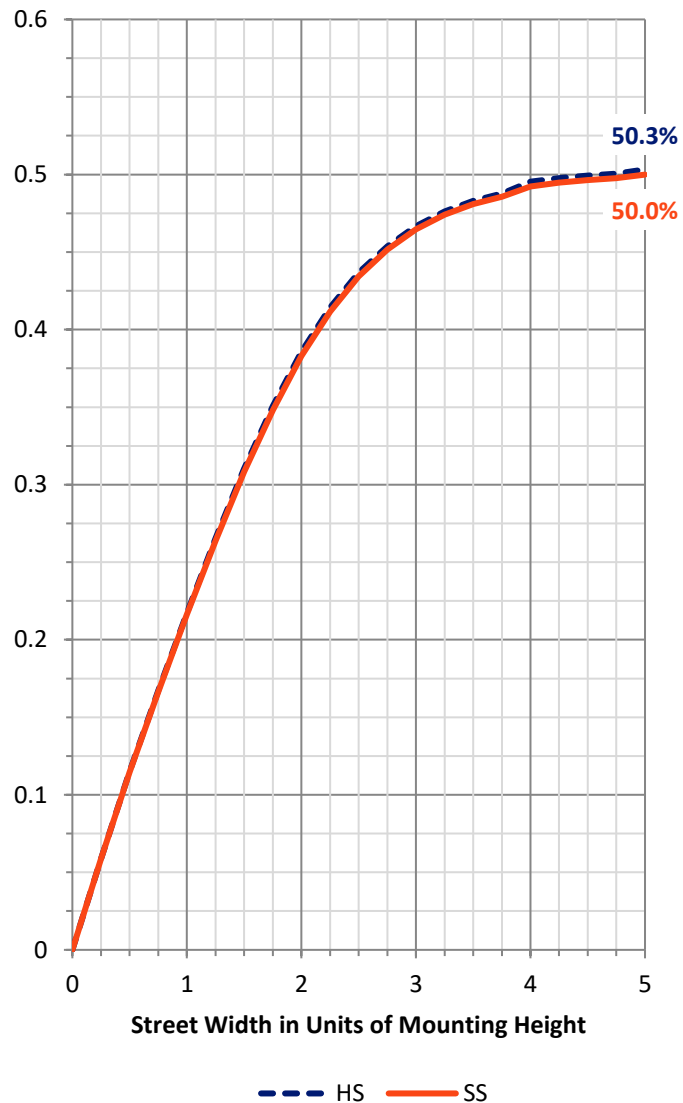
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6645.0	0.0	6645.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6645.0	0.0	6645.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13290.0	0.0	13290.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.3	0.7
10°-20°	288.9	2.2
20°-30°	489.8	3.7
30°-40°	761.6	5.7
40°-50°	1307.4	9.8
50°-60°	2601.3	19.6
60°-70°	4633.8	34.9
70°-80°	2918.3	22.0
80°-90°	190.6	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°	13290.0	100.0
0°-180°	13290.0	100.0

**Coefficient of Utilization**



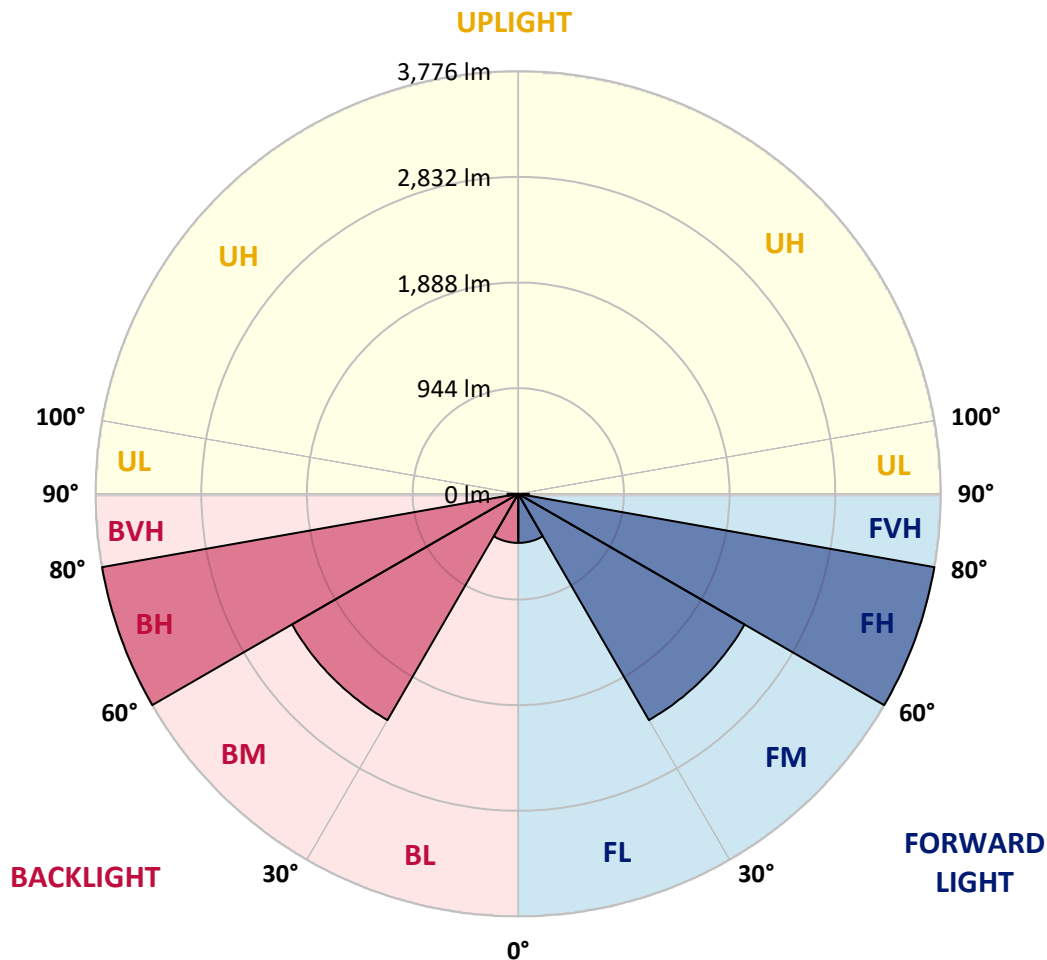
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.5	3.3			
FM (30°-60°)	2335.2	17.6			
FH (60°-80°)	3776.0	28.4			G2/5000
FVH (80°-90°)	95.3	0.7			G1/100
BL (0°-30°)	438.5	3.3	B1/500		
BM (30°-60°)	2335.2	17.6	B2/2500		
BH (60°-80°)	3776.0	28.4	B4/5000		G2/5000
BVH (80°-90°)	95.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9	1042.9
2.5°	1049.9	1046.4	1046.4	1042.9	1039.4	1039.4	1039.4	1035.9	1039.4	1039.4	1039.4
5°	1046.4	1042.9	1039.4	1035.9	1035.9	1032.4	1035.9	1032.4	1032.4	1032.4	1032.4
7.5°	1035.9	1035.9	1028.9	1028.9	1025.4	1025.4	1022.0	1022.0	1022.0	1018.5	1018.5
10°	1035.9	1032.4	1028.9	1022.0	1018.5	1018.5	1018.5	1015.0	1018.5	1018.5	1018.5
12.5°	1035.9	1035.9	1025.4	1018.5	1011.5	1011.5	1011.5	1011.5	1018.5	1022.0	1022.0
15°	1042.9	1039.4	1028.9	1015.0	1008.0	1008.0	1008.0	1011.5	1018.5	1025.4	1025.4
17.5°	1046.4	1039.4	1025.4	1011.5	1008.0	1008.0	1008.0	1011.5	1022.0	1028.9	1032.4
20°	1049.9	1046.4	1028.9	1015.0	1011.5	1011.5	1011.5	1011.5	1022.0	1032.4	1035.9
22.5°	1060.3	1056.8	1039.4	1028.9	1025.4	1028.9	1025.4	1025.4	1035.9	1049.9	1049.9
25°	1074.3	1067.3	1049.9	1042.9	1042.9	1049.9	1049.9	1042.9	1053.4	1063.8	1067.3
27.5°	1098.7	1091.7	1074.3	1067.3	1063.8	1063.8	1063.8	1063.8	1070.8	1088.2	1088.2
30°	1119.6	1116.1	1109.2	1109.2	1105.7	1098.7	1098.7	1105.7	1109.2	1116.1	1119.6
32.5°	1147.5	1140.5	1133.6	1133.6	1154.5	1175.4	1158.0	1130.1	1126.6	1130.1	1133.6
35°	1206.8	1199.8	1182.4	1171.9	1192.9	1213.8	1185.9	1168.5	1178.9	1189.4	1189.4
37.5°	1290.5	1287.0	1273.1	1252.2	1245.2	1248.7	1238.2	1252.2	1280.1	1301.0	1304.5
40°	1377.7	1374.2	1360.3	1349.8	1353.3	1370.8	1363.8	1349.8	1367.3	1381.2	1381.2
42.5°	1513.8	1499.8	1478.9	1451.0	1454.5	1468.4	1451.0	1464.9	1489.3	1513.8	1517.2
45°	1695.1	1681.2	1653.3	1628.9	1611.4	1618.4	1618.4	1642.8	1670.7	1698.6	1709.1
47.5°	1890.5	1887.0	1859.1	1838.1	1820.7	1831.2	1831.2	1831.2	1876.5	1904.4	1904.4
50°	2131.1	2120.7	2120.7	2103.2	2096.2	2099.7	2085.8	2099.7	2120.7	2127.6	2117.2
52.5°	2417.1	2406.7	2413.6	2420.6	2438.1	2462.5	2427.6	2424.1	2413.6	2403.2	2399.7
55°	2758.9	2769.4	2797.3	2842.7	2870.6	2919.4	2867.1	2804.3	2776.4	2748.5	2727.6
57.5°	3167.0	3184.5	3226.3	3334.4	3453.0	3498.4	3407.7	3292.6	3194.9	3114.7	3132.1
60°	3700.7	3690.2	3760.0	3906.5	4073.9	4164.6	4021.6	3833.2	3676.3	3637.9	3648.4
62.5°	4269.2	4290.1	4339.0	4534.3	4743.6	4841.2	4666.8	4387.8	4185.5	4080.9	4080.9
65°	4625.0	4638.9	4775.0	5050.5	5284.2	5416.7	5169.1	4764.5	4475.0	4300.6	4290.1
67.5°	4677.3	4691.2	4844.7	5197.0	5580.7	5765.5	5336.5	4809.8	4471.5	4258.7	4251.8
69°	4534.3	4544.8	4705.2	5074.9	5556.3	5824.8	5256.3	4663.3	4314.6	4108.8	4115.7
70°	4328.5	4370.4	4492.4	4869.1	5427.2	5772.5	5109.8	4499.4	4136.7	3972.7	3944.8
72.5°	3393.7	3421.6	3623.9	4091.3	4844.7	5238.8	4488.9	3808.8	3439.1	3268.2	3310.0
75°	1921.8	1914.9	2173.0	2842.7	3735.6	4196.0	3533.3	2741.5	2204.4	1998.6	2026.5
77.5°	732.5	763.9	938.2	1457.9	2347.4	2867.1	2343.9	1464.9	1025.4	798.7	760.4
80°	237.2	251.1	331.4	530.2	1001.0	1618.4	1095.2	565.0	355.8	268.6	251.1
82.5°	94.2	104.6	125.6	177.9	338.3	610.4	369.7	205.8	153.5	125.6	115.1
85°	52.3	48.8	66.3	80.2	115.1	174.4	125.6	97.7	83.7	59.3	55.8
87.5°	17.4	17.4	27.9	27.9	31.4	27.9	31.4	34.9	34.9	20.9	17.4
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)