

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: P573273

Luminaire Tested: **ARCH-S-PA2-50-830-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573273
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-PA2-50-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 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: 6571 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

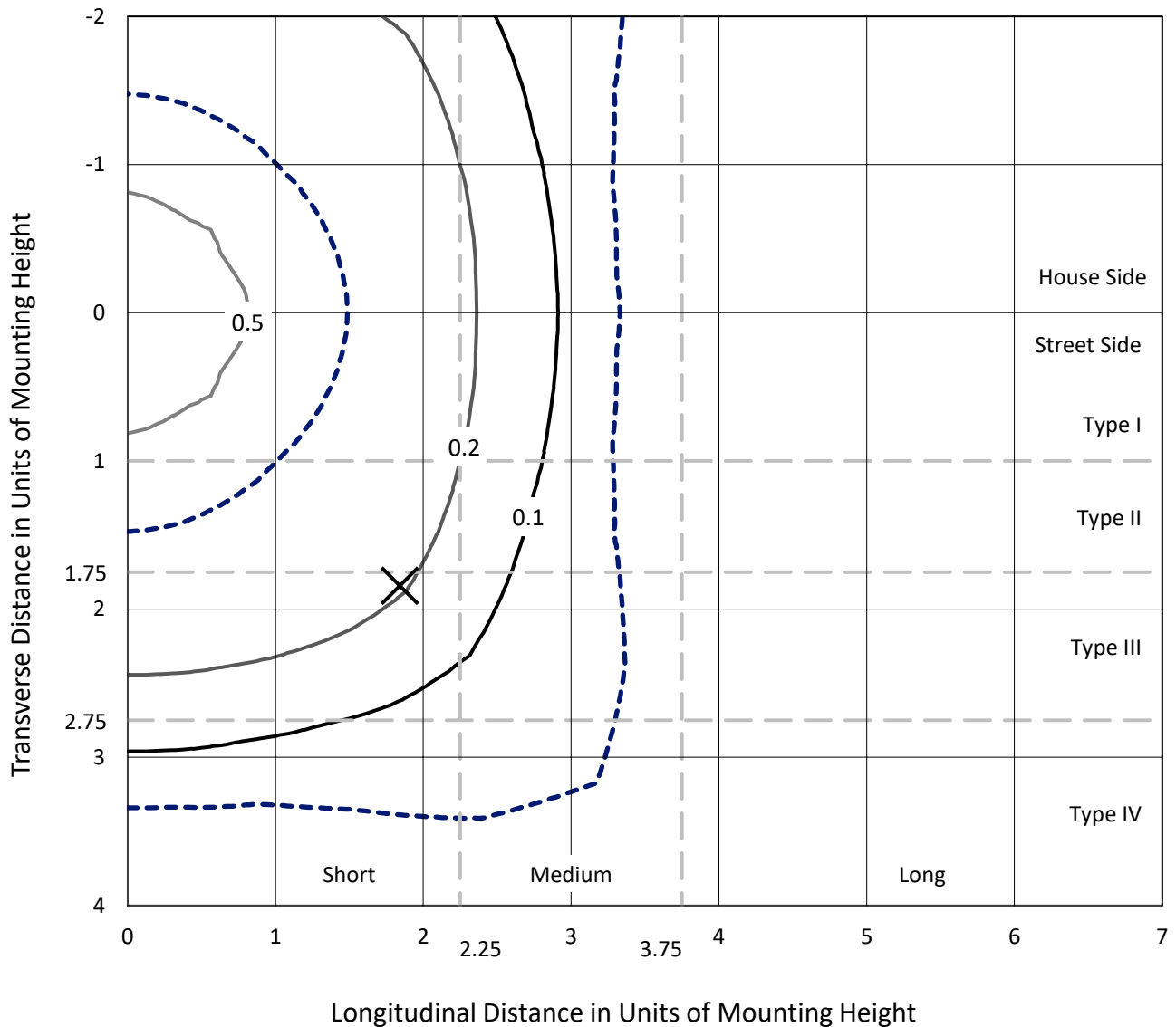
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

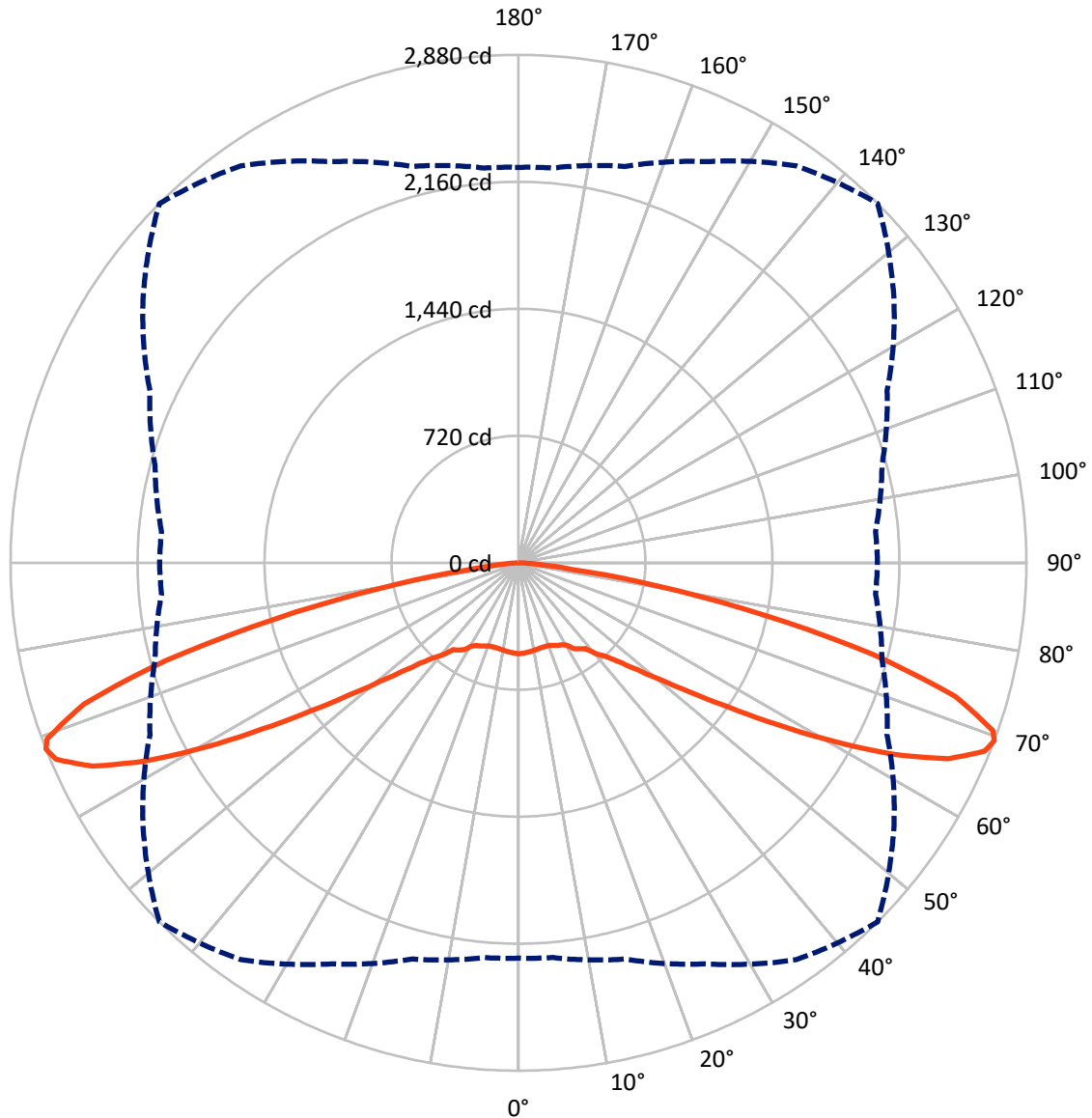
× Max cd
 - - - 1/2 Max cd



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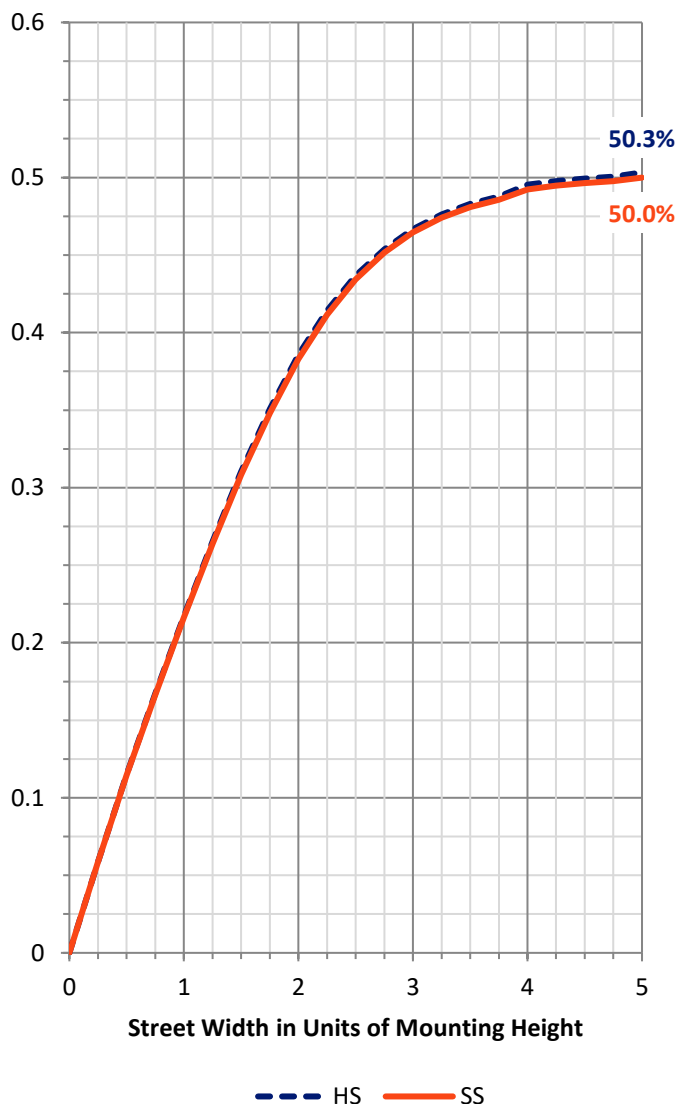
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3285.5	0.0	3285.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3285.5	0.0	3285.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6571.0	0.0	6571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.7
10°-20°	142.8	2.2
20°-30°	242.2	3.7
30°-40°	376.6	5.7
40°-50°	646.4	9.8
50°-60°	1286.2	19.6
60°-70°	2291.1	34.9
70°-80°	1442.9	22.0
80°-90°	94.2	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°	6571.0	100.0
0°-180°	6571.0	100.0

Coefficient of Utilization



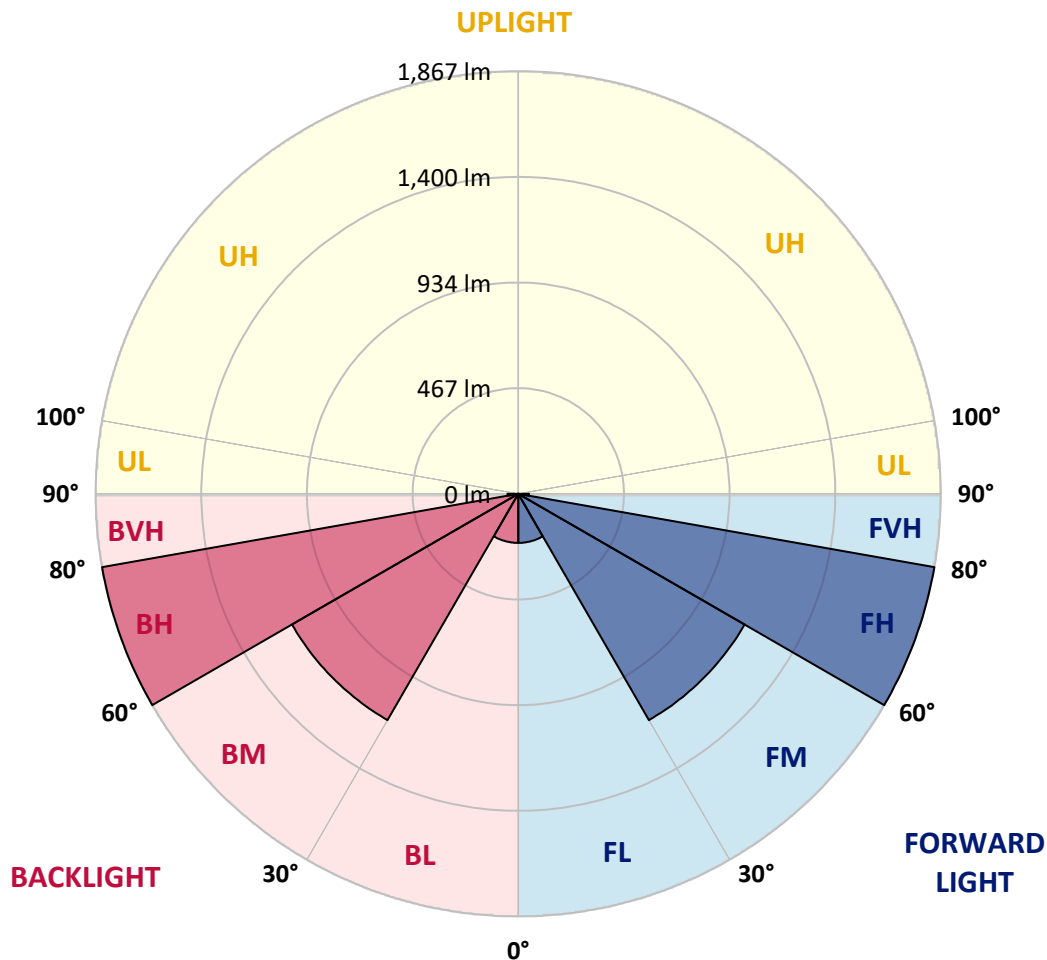
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.8	3.3			
FM (30°-60°)	1154.6	17.6			
FH (60°-80°)	1867.0	28.4			G2/5000
FVH (80°-90°)	47.1	0.7			G1/100
BL (0°-30°)	216.8	3.3	B1/500		
BM (30°-60°)	1154.6	17.6	B2/2500		
BH (60°-80°)	1867.0	28.4	B3/2500		G2/5000
BVH (80°-90°)	47.1	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	515.6	515.6	515.6	515.6	515.6	515.6	515.6	515.6	515.6	515.6	515.6
2.5°	519.1	517.4	517.4	515.6	513.9	513.9	513.9	512.2	513.9	513.9	513.9
5°	517.4	515.6	513.9	512.2	512.2	510.5	512.2	510.5	510.5	510.5	510.5
7.5°	512.2	512.2	508.7	508.7	507.0	507.0	505.3	505.3	505.3	503.6	503.6
10°	512.2	510.5	508.7	505.3	503.6	503.6	503.6	501.8	503.6	503.6	503.6
12.5°	512.2	512.2	507.0	503.6	500.1	500.1	500.1	500.1	503.6	505.3	505.3
15°	515.6	513.9	508.7	501.8	498.4	498.4	498.4	500.1	503.6	507.0	507.0
17.5°	517.4	513.9	507.0	500.1	498.4	498.4	498.4	500.1	505.3	508.7	510.5
20°	519.1	517.4	508.7	501.8	500.1	500.1	500.1	500.1	505.3	510.5	512.2
22.5°	524.3	522.5	513.9	508.7	507.0	507.0	507.0	507.0	512.2	519.1	519.1
25°	531.2	527.7	519.1	515.6	515.6	519.1	519.1	515.6	520.8	526.0	527.7
27.5°	543.2	539.8	531.2	527.7	526.0	526.0	526.0	526.0	529.4	538.1	538.1
30°	553.6	551.9	548.4	548.4	546.7	543.2	543.2	546.7	548.4	551.9	553.6
32.5°	567.4	563.9	560.5	560.5	570.8	581.2	572.5	558.7	557.0	558.7	560.5
35°	596.7	593.2	584.6	579.4	589.8	600.1	586.3	577.7	582.9	588.1	588.1
37.5°	638.1	636.4	629.5	619.1	615.7	617.4	612.2	619.1	632.9	643.3	645.0
40°	681.2	679.5	672.6	667.4	669.1	677.7	674.3	667.4	676.0	682.9	682.9
42.5°	748.4	741.6	731.2	717.4	719.1	726.0	717.4	724.3	736.4	748.4	750.2
45°	838.1	831.2	817.4	805.4	796.7	800.2	800.2	812.3	826.1	839.8	845.0
47.5°	934.7	933.0	919.2	908.8	900.2	905.4	905.4	905.4	927.8	941.6	941.6
50°	1053.7	1048.5	1048.5	1039.9	1036.4	1038.2	1031.3	1038.2	1048.5	1052.0	1046.8
52.5°	1195.1	1189.9	1193.4	1196.8	1205.5	1217.5	1200.3	1198.6	1193.4	1188.2	1186.5
55°	1364.1	1369.3	1383.1	1405.5	1419.3	1443.4	1417.6	1386.5	1372.7	1358.9	1348.6
57.5°	1565.9	1574.5	1595.2	1648.7	1707.3	1729.7	1684.9	1628.0	1579.7	1540.0	1548.6
60°	1829.7	1824.6	1859.1	1931.5	2014.3	2059.1	1988.4	1895.3	1817.7	1798.7	1803.9
62.5°	2110.8	2121.2	2145.3	2241.9	2345.4	2393.7	2307.4	2169.5	2069.4	2017.7	2017.7
65°	2286.7	2293.6	2360.9	2497.1	2612.7	2678.2	2555.8	2355.7	2212.6	2126.4	2121.2
67.5°	2312.6	2319.5	2395.4	2569.6	2759.3	2850.7	2638.5	2378.1	2210.9	2105.7	2102.2
69°	2241.9	2247.1	2326.4	2509.2	2747.2	2880.0	2598.9	2305.7	2133.3	2031.5	2035.0
70°	2140.2	2160.8	2221.2	2407.5	2683.4	2854.1	2526.4	2224.7	2045.3	1964.2	1950.5
72.5°	1678.0	1691.8	1791.8	2022.9	2395.4	2590.3	2219.5	1883.2	1700.4	1615.9	1636.6
75°	950.2	946.8	1074.4	1405.5	1847.0	2074.6	1747.0	1355.5	1089.9	988.2	1002.0
77.5°	362.2	377.7	463.9	720.9	1160.6	1417.6	1158.9	724.3	507.0	394.9	375.9
80°	117.3	124.2	163.8	262.1	494.9	800.2	541.5	279.4	175.9	132.8	124.2
82.5°	46.6	51.7	62.1	88.0	167.3	301.8	182.8	101.7	75.9	62.1	56.9
85°	25.9	24.1	32.8	39.7	56.9	86.2	62.1	48.3	41.4	29.3	27.6
87.5°	8.6	8.6	13.8	13.8	15.5	13.8	15.5	17.2	17.2	10.3	8.6
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)