

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: P572787

Luminaire Tested: **ARCH-S-PA2-110-830-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572787
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-PA2-110-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12328 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

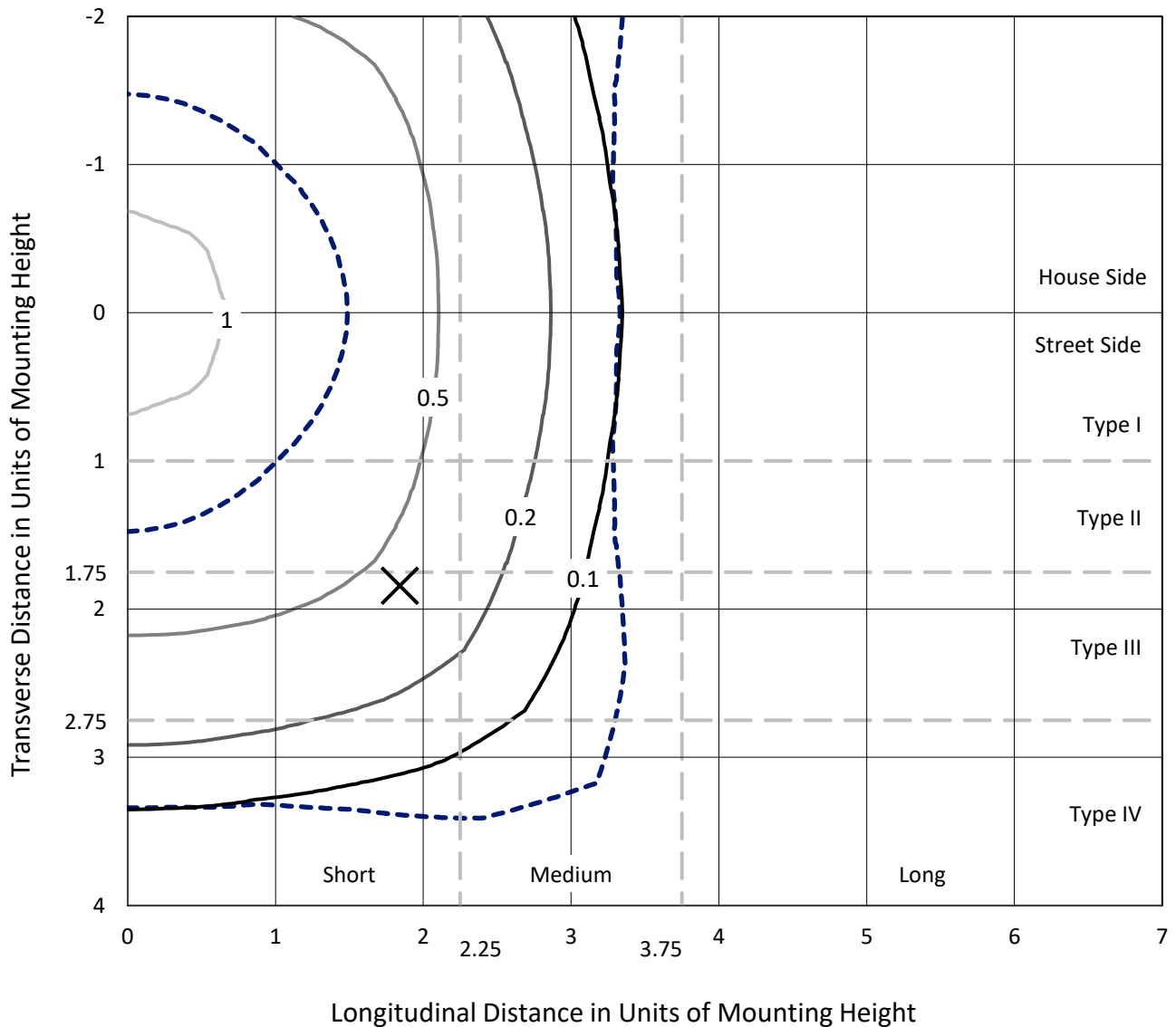
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

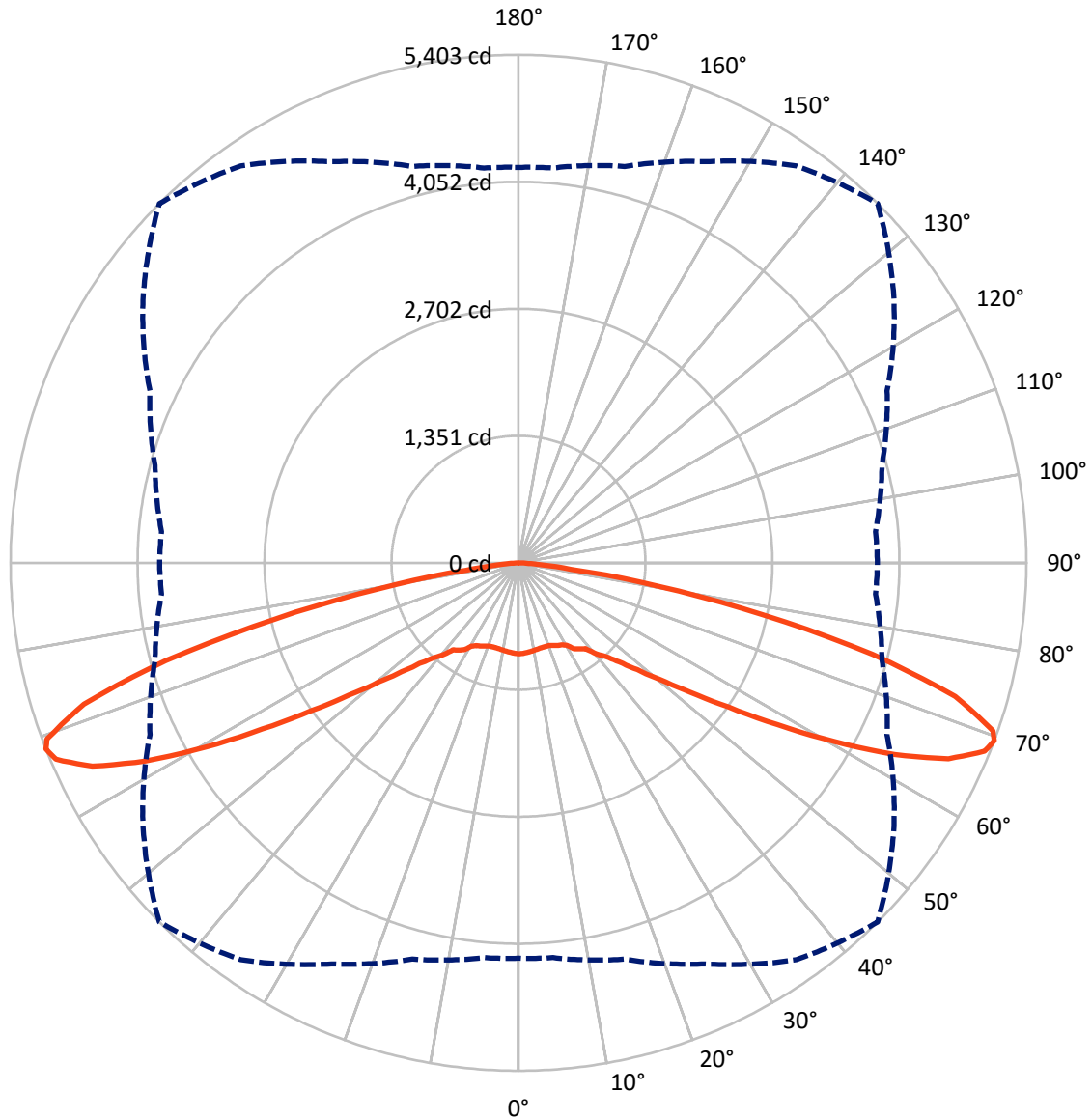
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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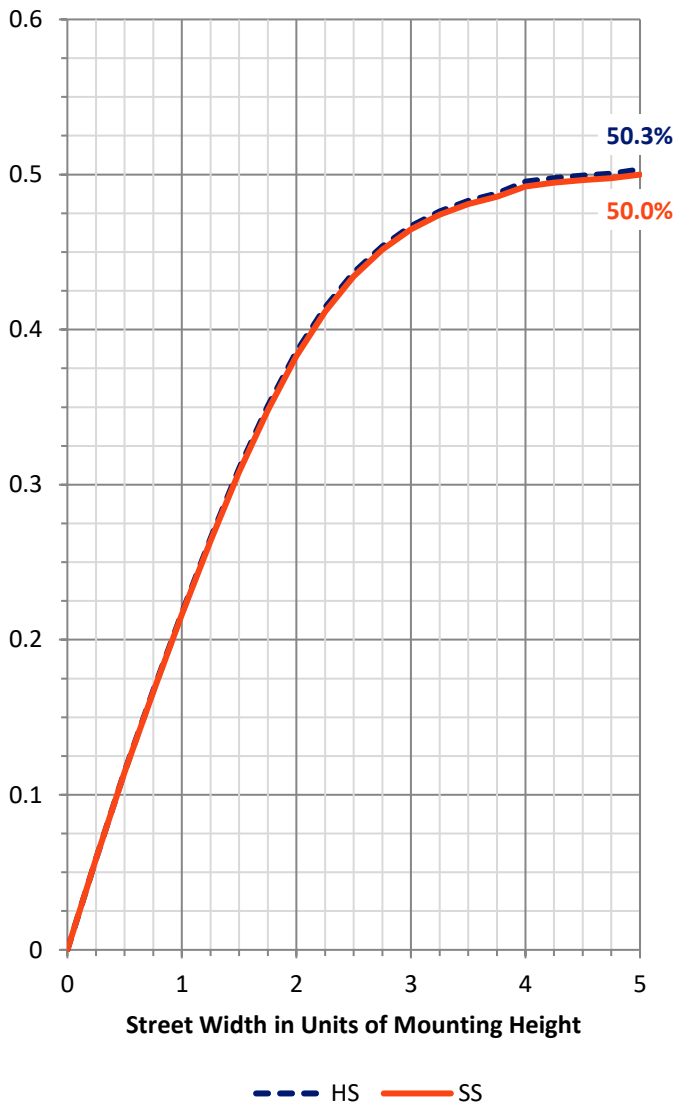
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6164.0	0.0	6164.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6164.0	0.0	6164.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12328.0	0.0	12328.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	0.7
10°-20°	268.0	2.2
20°-30°	454.4	3.7
30°-40°	706.5	5.7
40°-50°	1212.8	9.8
50°-60°	2413.0	19.6
60°-70°	4298.4	34.9
70°-80°	2707.1	22.0
80°-90°	176.8	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°	12328.0	100.0
0°-180°	12328.0	100.0



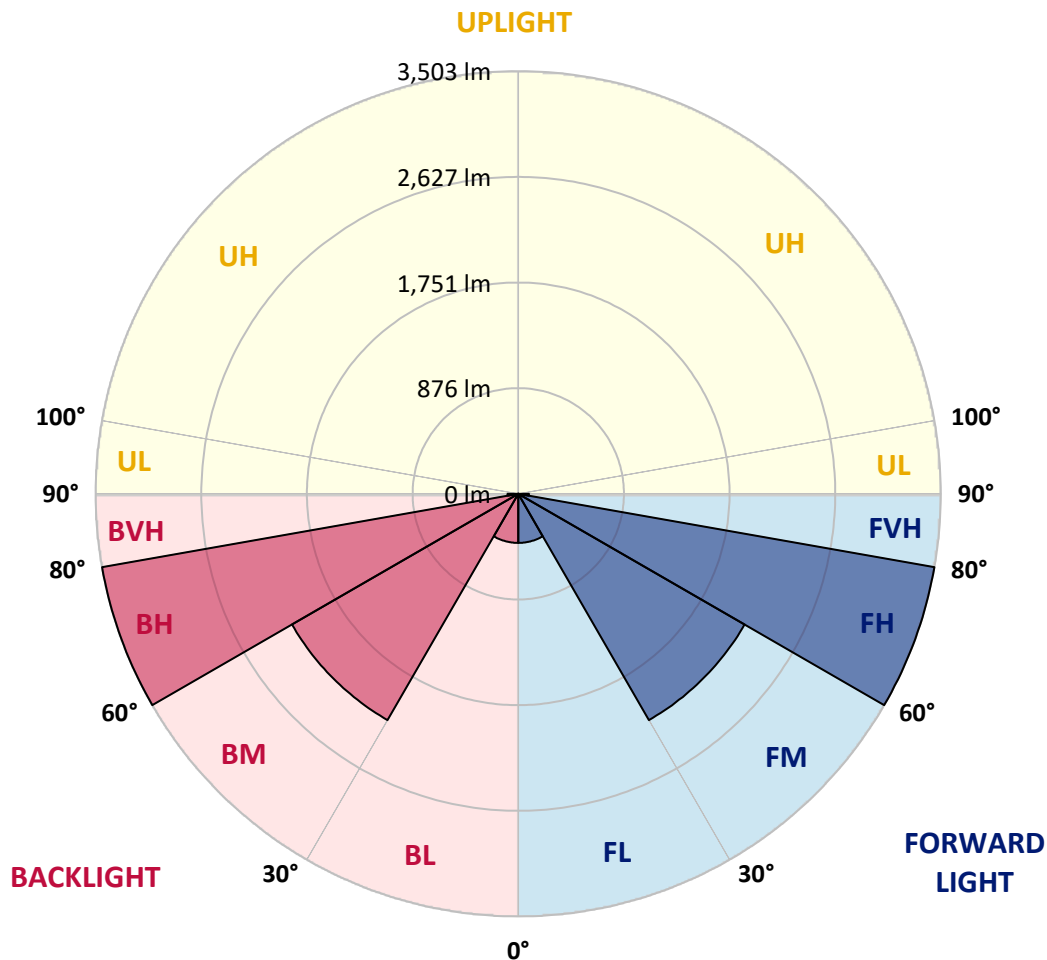
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.8	3.3			
FM (30°-60°)	2166.1	17.6			
FH (60°-80°)	3502.7	28.4			G2/5000
FVH (80°-90°)	88.4	0.7			G1/100
BL (0°-30°)	406.8	3.3	B1/500		
BM (30°-60°)	2166.1	17.6	B2/2500		
BH (60°-80°)	3502.7	28.4	B4/5000		G2/5000
BVH (80°-90°)	88.4	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°	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4	967.4
2.5°	973.9	970.6	970.6	967.4	964.2	964.2	964.2	960.9	964.2	964.2	964.2
5°	970.6	967.4	964.2	960.9	960.9	957.7	960.9	957.7	957.7	957.7	957.7
7.5°	960.9	960.9	954.5	954.5	951.2	951.2	948.0	948.0	948.0	944.7	944.7
10°	960.9	957.7	954.5	948.0	944.7	944.7	944.7	941.5	944.7	944.7	944.7
12.5°	960.9	960.9	951.2	944.7	938.3	938.3	938.3	938.3	944.7	948.0	948.0
15°	967.4	964.2	954.5	941.5	935.0	935.0	935.0	938.3	944.7	951.2	951.2
17.5°	970.6	964.2	951.2	938.3	935.0	935.0	935.0	938.3	948.0	954.5	957.7
20°	973.9	970.6	954.5	941.5	938.3	938.3	938.3	938.3	948.0	957.7	960.9
22.5°	983.6	980.3	964.2	954.5	951.2	954.5	951.2	951.2	960.9	973.9	973.9
25°	996.5	990.0	973.9	967.4	967.4	973.9	973.9	967.4	977.1	986.8	990.0
27.5°	1019.2	1012.7	996.5	990.0	986.8	986.8	986.8	986.8	993.3	1009.5	1009.5
30°	1038.6	1035.3	1028.9	1028.9	1025.6	1019.2	1019.2	1025.6	1028.9	1035.3	1038.6
32.5°	1064.5	1058.0	1051.5	1051.5	1070.9	1090.3	1074.2	1048.3	1045.0	1048.3	1051.5
35°	1119.5	1113.0	1096.8	1087.1	1106.5	1125.9	1100.1	1083.9	1093.6	1103.3	1103.3
37.5°	1197.1	1193.9	1180.9	1161.5	1155.1	1158.3	1148.6	1161.5	1187.4	1206.8	1210.1
40°	1278.0	1274.8	1261.8	1252.1	1255.4	1271.5	1265.1	1252.1	1268.3	1281.2	1281.2
42.5°	1404.2	1391.2	1371.8	1345.9	1349.2	1362.1	1345.9	1358.9	1381.5	1404.2	1407.4
45°	1572.4	1559.5	1533.6	1511.0	1494.8	1501.2	1501.2	1523.9	1549.8	1575.7	1585.4
47.5°	1753.6	1750.4	1724.5	1705.1	1688.9	1698.6	1698.6	1698.6	1740.7	1766.6	1766.6
50°	1976.9	1967.1	1967.1	1951.0	1944.5	1947.7	1934.8	1947.7	1967.1	1973.6	1963.9
52.5°	2242.2	2232.5	2238.9	2245.4	2261.6	2284.2	2251.9	2248.6	2238.9	2229.2	2226.0
55°	2559.2	2568.9	2594.8	2636.9	2662.8	2708.1	2659.5	2601.3	2575.4	2549.5	2530.1
57.5°	2937.8	2954.0	2992.8	3093.1	3203.1	3245.1	3161.0	3054.3	2963.7	2889.3	2905.4
60°	3432.8	3423.1	3487.8	3623.7	3779.0	3863.1	3730.5	3555.8	3410.2	3374.6	3384.3
62.5°	3960.2	3979.6	4024.9	4206.1	4400.2	4490.8	4329.0	4070.2	3882.5	3785.5	3785.5
65°	4290.2	4303.1	4429.3	4684.9	4901.7	5024.6	4794.9	4419.6	4151.1	3989.3	3979.6
67.5°	4338.7	4351.7	4494.0	4820.8	5176.7	5348.2	4950.2	4461.7	4147.8	3950.5	3944.0
69°	4206.1	4215.8	4364.6	4707.6	5154.1	5403.2	4875.8	4325.8	4002.2	3811.4	3817.8
70°	4015.2	4054.0	4167.2	4516.7	5034.3	5354.7	4739.9	4173.7	3837.2	3685.2	3659.3
72.5°	3148.1	3174.0	3361.6	3795.2	4494.0	4859.6	4164.0	3533.1	3190.1	3031.6	3070.4
75°	1782.7	1776.3	2015.7	2636.9	3465.2	3892.2	3277.5	2543.1	2044.8	1853.9	1879.8
77.5°	679.4	708.6	870.3	1352.4	2177.5	2659.5	2174.2	1358.9	951.2	740.9	705.3
80°	220.0	233.0	307.4	491.8	928.6	1501.2	1015.9	524.1	330.0	249.1	233.0
82.5°	87.4	97.1	116.5	165.0	313.8	566.2	343.0	190.9	142.4	116.5	106.8
85°	48.5	45.3	61.5	74.4	106.8	161.8	116.5	90.6	77.7	55.0	51.8
87.5°	16.2	16.2	25.9	25.9	29.1	25.9	29.1	32.4	32.4	19.4	16.2
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)