

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: P572778

Luminaire Tested: **ARCH-S-PA2-110-827-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572778
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-PA2-110-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 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: 11405 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

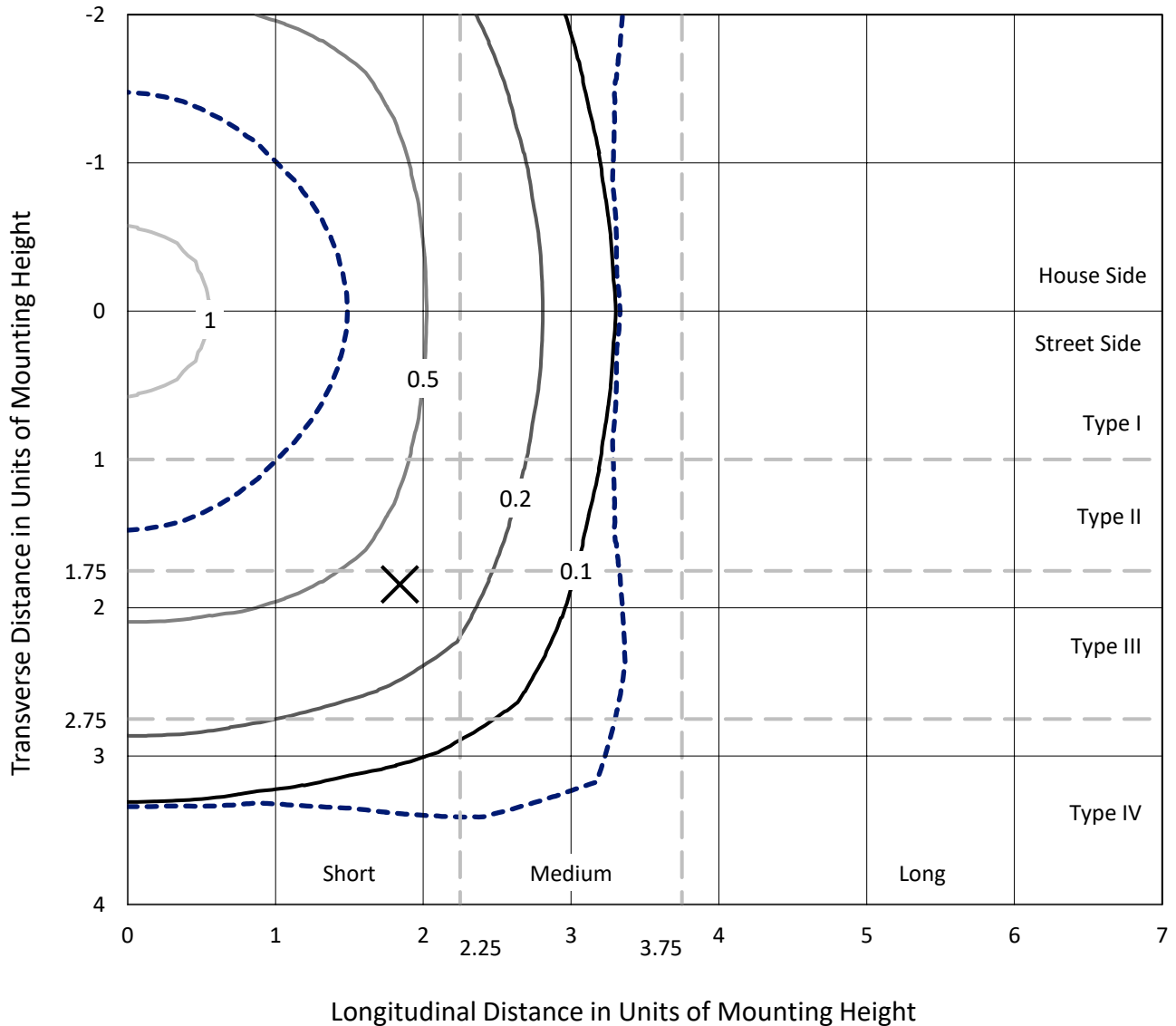
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

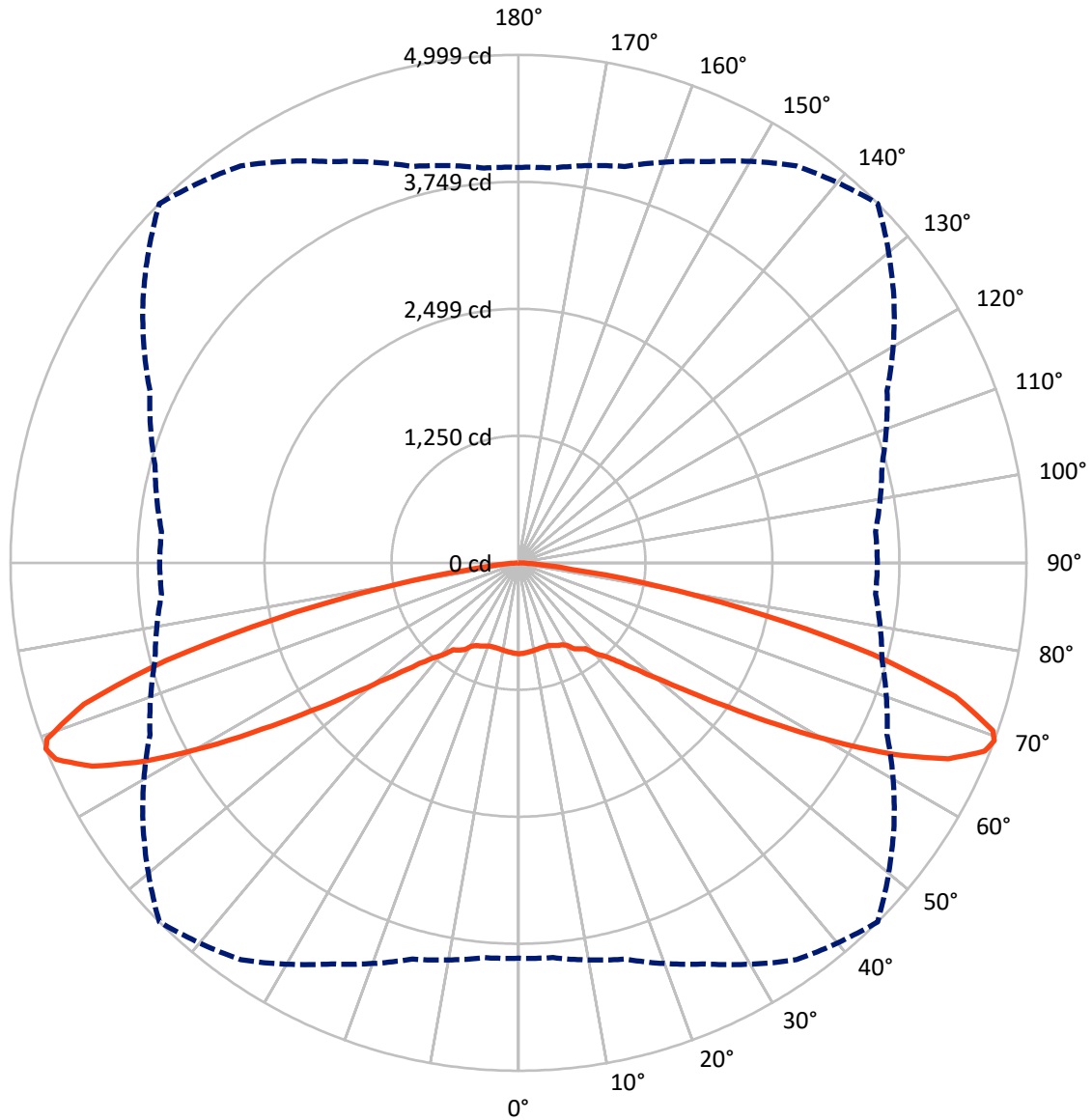
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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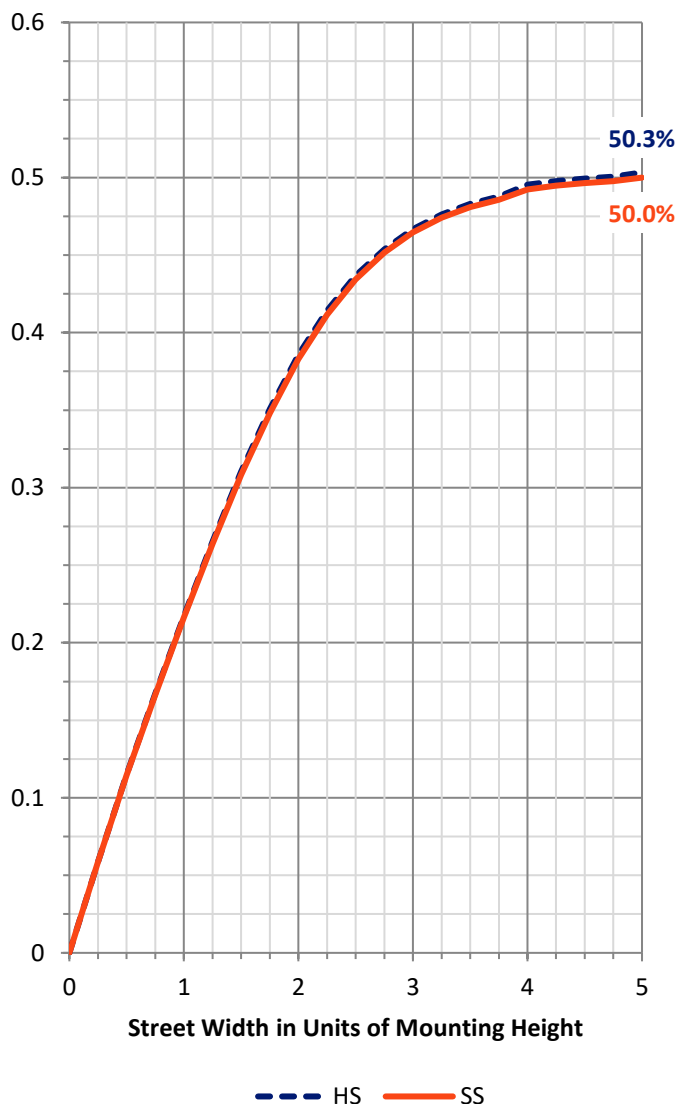
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5702.5	0.0	5702.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5702.5	0.0	5702.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11405.0	0.0	11405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	0.7
10°-20°	247.9	2.2
20°-30°	420.4	3.7
30°-40°	653.6	5.7
40°-50°	1122.0	9.8
50°-60°	2232.3	19.6
60°-70°	3976.6	34.9
70°-80°	2504.4	22.0
80°-90°	163.6	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°	11405.0	100.0
0°-180°	11405.0	100.0

Coefficient of Utilization

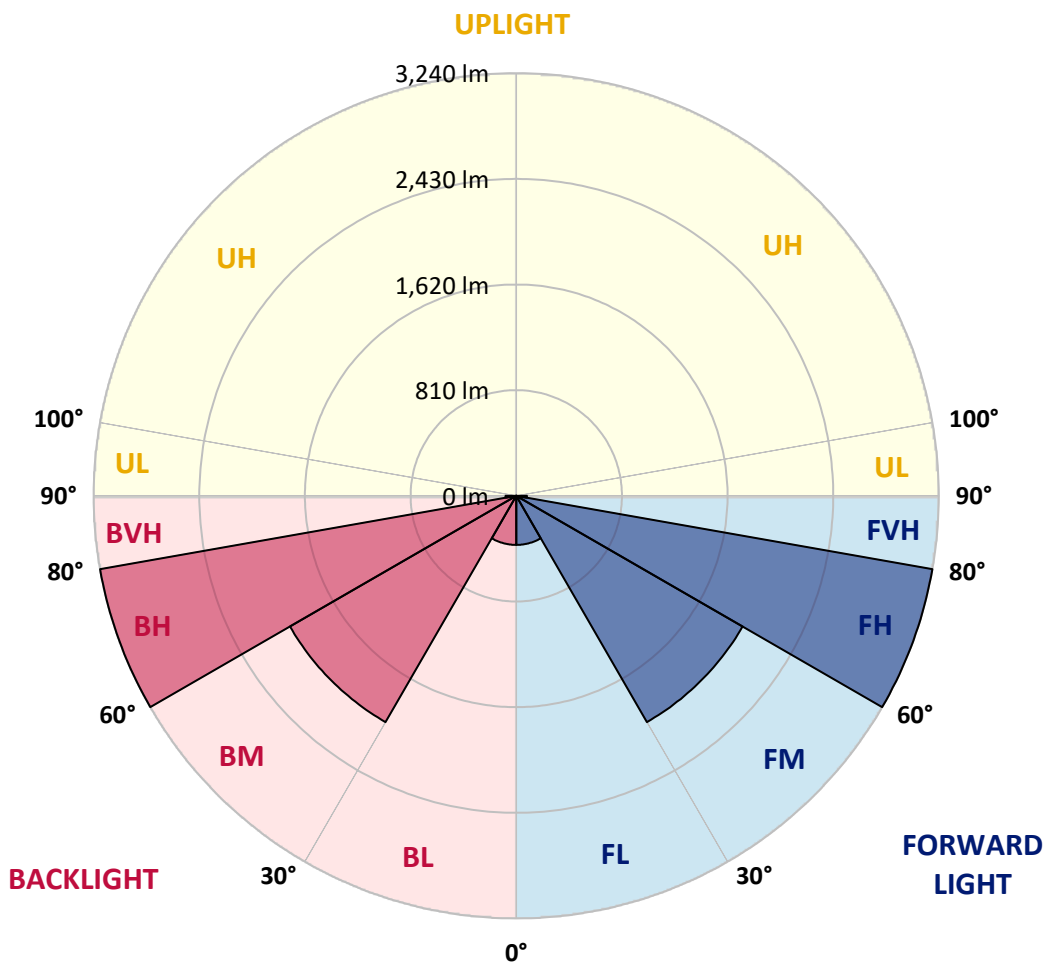


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.3	3.3			
FM (30°-60°)	2003.9	17.6			
FH (60°-80°)	3240.5	28.4			G2/5000
FVH (80°-90°)	81.8	0.7			G1/100
BL (0°-30°)	376.3	3.3	B1/500		
BM (30°-60°)	2003.9	17.6	B2/2500		
BH (60°-80°)	3240.5	28.4	B4/5000		G2/5000
BVH (80°-90°)	81.8	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°	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0	895.0
2.5°	901.0	898.0	898.0	895.0	892.0	892.0	892.0	889.0	892.0	892.0	892.0
5°	898.0	895.0	892.0	889.0	889.0	886.0	889.0	886.0	886.0	886.0	886.0
7.5°	889.0	889.0	883.0	883.0	880.0	880.0	877.0	877.0	877.0	874.0	874.0
10°	889.0	886.0	883.0	877.0	874.0	874.0	874.0	871.0	874.0	874.0	874.0
12.5°	889.0	889.0	880.0	874.0	868.0	868.0	868.0	868.0	874.0	877.0	877.0
15°	895.0	892.0	883.0	871.0	865.0	865.0	865.0	868.0	874.0	880.0	880.0
17.5°	898.0	892.0	880.0	868.0	865.0	865.0	865.0	868.0	877.0	883.0	886.0
20°	901.0	898.0	883.0	871.0	868.0	868.0	868.0	868.0	877.0	886.0	889.0
22.5°	909.9	906.9	892.0	883.0	880.0	883.0	880.0	880.0	889.0	901.0	901.0
25°	921.9	915.9	901.0	895.0	895.0	901.0	901.0	895.0	903.9	912.9	915.9
27.5°	942.9	936.9	921.9	915.9	912.9	912.9	912.9	912.9	918.9	933.9	933.9
30°	960.8	957.8	951.8	951.8	948.8	942.9	942.9	948.8	951.8	957.8	960.8
32.5°	984.8	978.8	972.8	972.8	990.8	1008.7	993.7	969.8	966.8	969.8	972.8
35°	1035.6	1029.7	1014.7	1005.7	1023.7	1041.6	1017.7	1002.7	1011.7	1020.7	1020.7
37.5°	1107.5	1104.5	1092.5	1074.6	1068.6	1071.6	1062.6	1074.6	1098.5	1116.5	1119.5
40°	1182.3	1179.3	1167.3	1158.4	1161.4	1176.3	1170.3	1158.4	1173.3	1185.3	1185.3
42.5°	1299.1	1287.1	1269.1	1245.2	1248.2	1260.1	1245.2	1257.1	1278.1	1299.1	1302.0
45°	1454.7	1442.7	1418.8	1397.8	1382.9	1388.8	1388.8	1409.8	1433.7	1457.7	1466.7
47.5°	1622.3	1619.3	1595.4	1577.4	1562.5	1571.4	1571.4	1571.4	1610.3	1634.3	1634.3
50°	1828.8	1819.9	1819.9	1804.9	1798.9	1801.9	1789.9	1801.9	1819.9	1825.9	1816.9
52.5°	2074.3	2065.3	2071.3	2077.3	2092.2	2113.2	2083.3	2080.3	2071.3	2062.3	2059.3
55°	2367.6	2376.6	2400.5	2439.5	2463.4	2505.3	2460.4	2406.5	2382.6	2358.6	2340.7
57.5°	2717.8	2732.8	2768.7	2861.5	2963.3	3002.2	2924.4	2825.6	2741.8	2672.9	2687.9
60°	3175.8	3166.8	3226.7	3352.4	3496.1	3573.9	3451.2	3289.5	3154.8	3121.9	3130.9
62.5°	3663.7	3681.6	3723.5	3891.2	4070.8	4154.6	4004.9	3765.5	3591.8	3502.0	3502.0
65°	3969.0	3981.0	4097.7	4334.2	4534.7	4648.4	4435.9	4088.7	3840.3	3690.6	3681.6
67.5°	4013.9	4025.9	4157.6	4459.9	4789.1	4947.8	4579.6	4127.6	3837.3	3654.7	3648.7
69°	3891.2	3900.1	4037.8	4355.1	4768.2	4998.7	4510.8	4001.9	3702.6	3526.0	3532.0
70°	3714.6	3750.5	3855.2	4178.5	4657.4	4953.8	4385.0	3861.2	3549.9	3409.3	3385.3
72.5°	2912.4	2936.3	3109.9	3511.0	4157.6	4495.8	3852.3	3268.6	2951.3	2804.6	2840.6
75°	1649.3	1643.3	1864.8	2439.5	3205.7	3600.8	3032.1	2352.7	1891.7	1715.1	1739.1
77.5°	628.6	655.5	805.2	1251.2	2014.4	2460.4	2011.4	1257.1	880.0	685.4	652.5
80°	203.5	215.5	284.4	455.0	859.0	1388.8	939.9	484.9	305.3	230.5	215.5
82.5°	80.8	89.8	107.8	152.7	290.3	523.8	317.3	176.6	131.7	107.8	98.8
85°	44.9	41.9	56.9	68.8	98.8	149.7	107.8	83.8	71.8	50.9	47.9
87.5°	15.0	15.0	23.9	23.9	26.9	23.9	26.9	29.9	29.9	18.0	15.0
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)