

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: P572724

Luminaire Tested: **ARCH-S-PA2-110-727-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572724
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-PA2-110-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 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: 12975 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

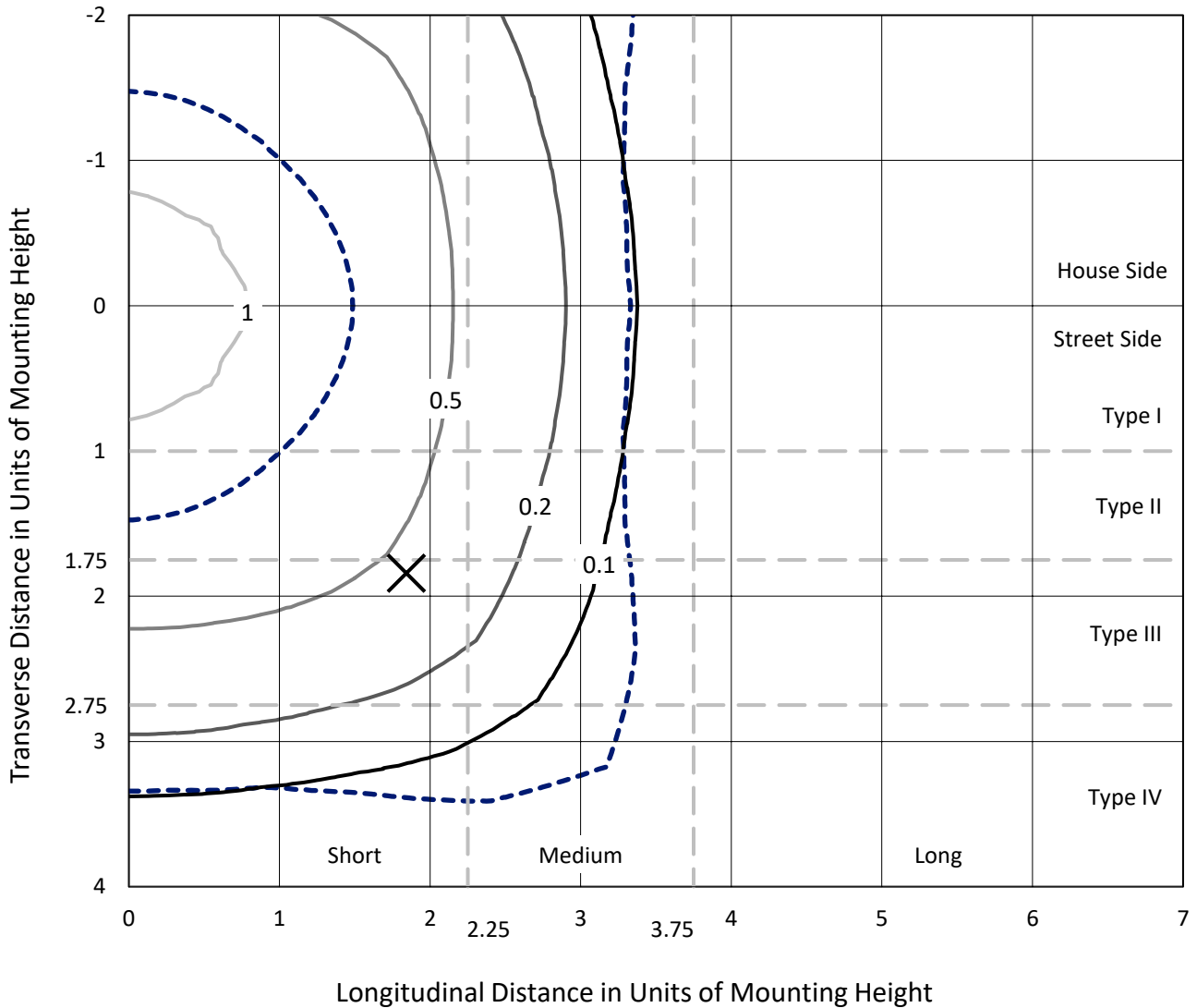
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

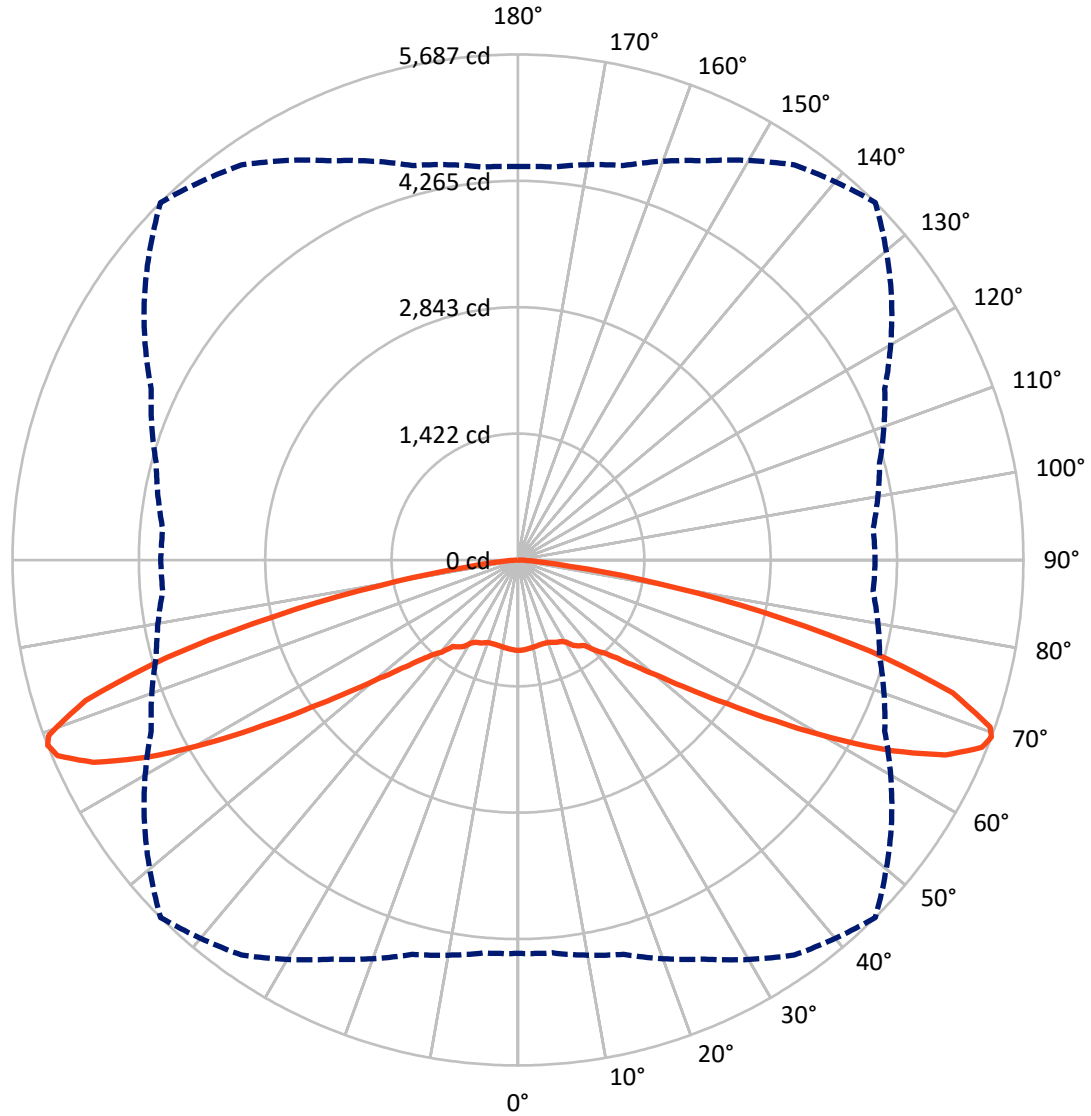
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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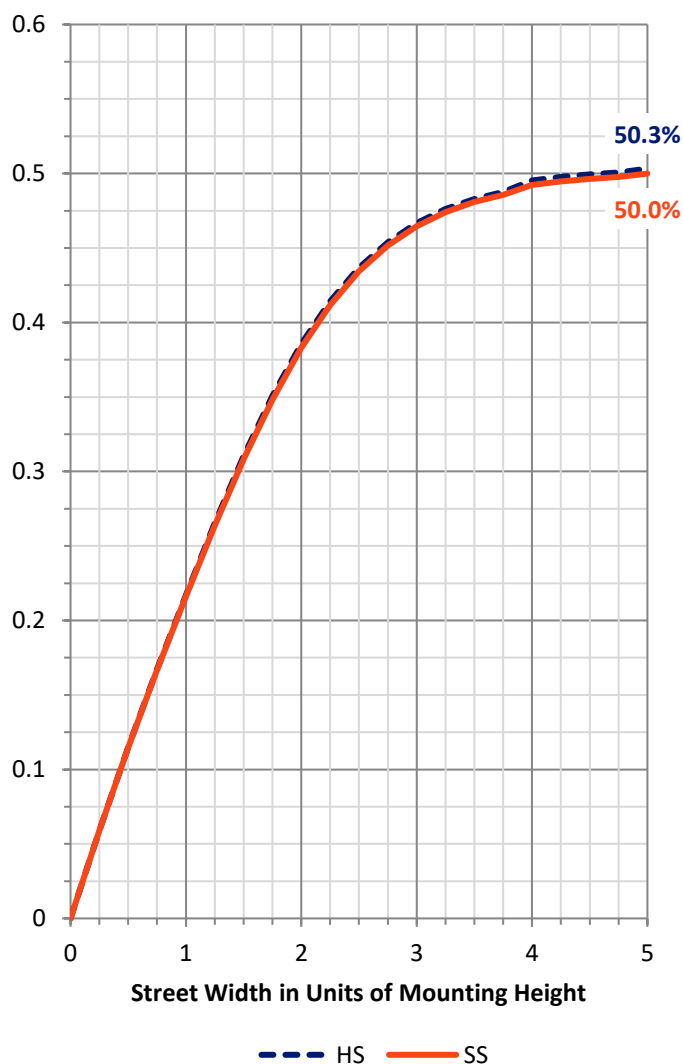
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6487.5	0.0	6487.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6487.5	0.0	6487.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12975.0	0.0	12975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	0.7
10°-20°	282.0	2.2
20°-30°	478.2	3.7
30°-40°	743.6	5.7
40°-50°	1276.4	9.8
50°-60°	2539.6	19.6
60°-70°	4524.0	34.9
70°-80°	2849.1	22.0
80°-90°	186.1	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°	12975.0	100.0
0°-180°	12975.0	100.0

Coefficient of Utilization



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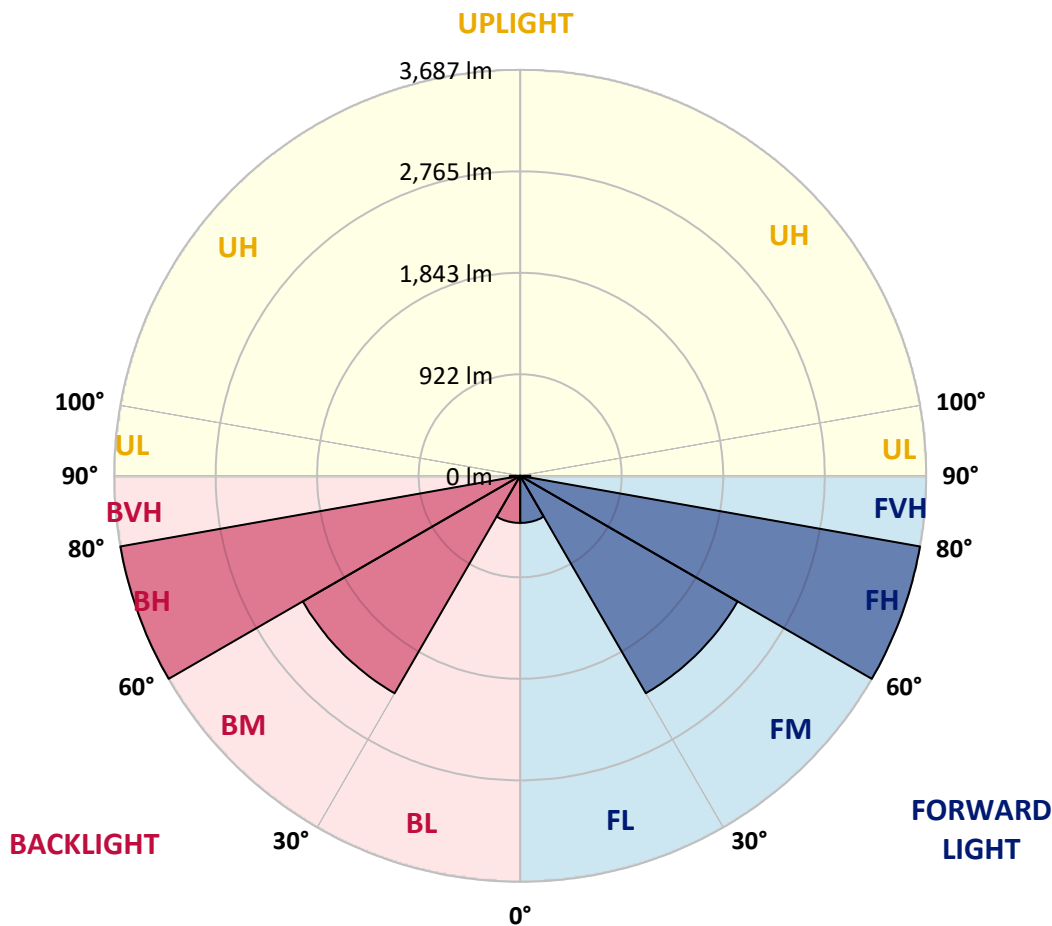
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.1	3.3			
FM (30°-60°)	2279.8	17.6			
FH (60°-80°)	3686.5	28.4			G2/5000
FVH (80°-90°)	93.0	0.7			G1/100
BL (0°-30°)	428.1	3.3	B1/500		
BM (30°-60°)	2279.8	17.6	B2/2500		
BH (60°-80°)	3686.5	28.4	B4/5000		G2/5000
BVH (80°-90°)	93.0	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°	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2	1018.2
2.5°	1025.0	1021.6	1021.6	1018.2	1014.8	1014.8	1014.8	1011.4	1014.8	1014.8	1014.8
5°	1021.6	1018.2	1014.8	1011.4	1011.4	1008.0	1011.4	1008.0	1008.0	1008.0	1008.0
7.5°	1011.4	1011.4	1004.5	1004.5	1001.1	1001.1	997.7	997.7	997.7	994.3	994.3
10°	1011.4	1008.0	1004.5	997.7	994.3	994.3	994.3	990.9	994.3	994.3	994.3
12.5°	1011.4	1011.4	1001.1	994.3	987.5	987.5	987.5	987.5	994.3	997.7	997.7
15°	1018.2	1014.8	1004.5	990.9	984.1	984.1	984.1	987.5	994.3	1001.1	1001.1
17.5°	1021.6	1014.8	1001.1	987.5	984.1	984.1	984.1	987.5	997.7	1004.5	1008.0
20°	1025.0	1021.6	1004.5	990.9	987.5	987.5	987.5	987.5	997.7	1008.0	1011.4
22.5°	1035.2	1031.8	1014.8	1004.5	1001.1	1004.5	1001.1	1001.1	1011.4	1025.0	1025.0
25°	1048.8	1042.0	1025.0	1018.2	1018.2	1025.0	1025.0	1018.2	1028.4	1038.6	1042.0
27.5°	1072.7	1065.8	1048.8	1042.0	1038.6	1038.6	1038.6	1038.6	1045.4	1062.4	1062.4
30°	1093.1	1089.7	1082.9	1082.9	1079.5	1072.7	1072.7	1079.5	1082.9	1089.7	1093.1
32.5°	1120.3	1113.5	1106.7	1106.7	1127.1	1147.6	1130.5	1103.3	1099.9	1103.3	1106.7
35°	1178.2	1171.4	1154.4	1144.2	1164.6	1185.0	1157.8	1140.8	1151.0	1161.2	1161.2
37.5°	1259.9	1256.5	1242.9	1222.5	1215.7	1219.1	1208.9	1222.5	1249.7	1270.2	1273.6
40°	1345.1	1341.7	1328.0	1317.8	1321.2	1338.3	1331.5	1317.8	1334.9	1348.5	1348.5
42.5°	1477.9	1464.3	1443.8	1416.6	1420.0	1433.6	1416.6	1430.2	1454.0	1477.9	1481.3
45°	1654.9	1641.3	1614.1	1590.2	1573.2	1580.0	1580.0	1603.9	1631.1	1658.4	1668.6
47.5°	1845.6	1842.2	1815.0	1794.6	1777.5	1787.8	1787.8	1787.8	1832.0	1859.3	1859.3
50°	2080.6	2070.4	2070.4	2053.4	2046.6	2050.0	2036.3	2050.0	2070.4	2077.2	2067.0
52.5°	2359.8	2349.6	2356.4	2363.2	2380.3	2404.1	2370.1	2366.6	2356.4	2346.2	2342.8
55°	2693.5	2703.8	2731.0	2775.3	2802.5	2850.2	2799.1	2737.8	2710.6	2683.3	2662.9
57.5°	3092.0	3109.0	3149.9	3255.4	3371.2	3415.5	3326.9	3214.6	3119.2	3040.9	3057.9
60°	3613.0	3602.7	3670.9	3813.9	3977.3	4065.9	3926.2	3742.4	3589.1	3551.7	3561.9
62.5°	4168.0	4188.5	4236.1	4426.8	4631.1	4726.5	4556.2	4283.8	4086.3	3984.1	3984.1
65°	4515.4	4529.0	4661.8	4930.8	5158.9	5288.3	5046.6	4651.6	4368.9	4198.7	4188.5
67.5°	4566.4	4580.1	4729.9	5073.8	5448.4	5628.9	5210.0	4695.8	4365.5	4157.8	4151.0
69°	4426.8	4437.0	4593.7	4954.6	5424.6	5686.8	5131.7	4552.8	4212.3	4011.4	4018.2
70°	4225.9	4266.8	4386.0	4753.7	5298.6	5635.7	4988.7	4392.8	4038.6	3878.6	3851.3
72.5°	3313.3	3340.5	3538.0	3994.4	4729.9	5114.7	4382.6	3718.5	3357.6	3190.7	3231.6
75°	1876.3	1869.5	2121.5	2775.3	3647.0	4096.5	3449.5	2676.5	2152.1	1951.2	1978.4
77.5°	715.1	745.7	916.0	1423.4	2291.7	2799.1	2288.3	1430.2	1001.1	779.8	742.3
80°	231.6	245.2	323.5	517.6	977.3	1580.0	1069.2	551.6	347.3	262.2	245.2
82.5°	91.9	102.2	122.6	173.7	330.3	595.9	361.0	200.9	149.8	122.6	112.4
85°	51.1	47.7	64.7	78.3	112.4	170.3	122.6	95.3	81.7	57.9	54.5
87.5°	17.0	17.0	27.2	27.2	30.6	27.2	30.6	34.1	34.1	20.4	17.0
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)