

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: P573453

Luminaire Tested: **ARCH-S-PA2-80-727-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573453
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-PA2-80-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10210 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

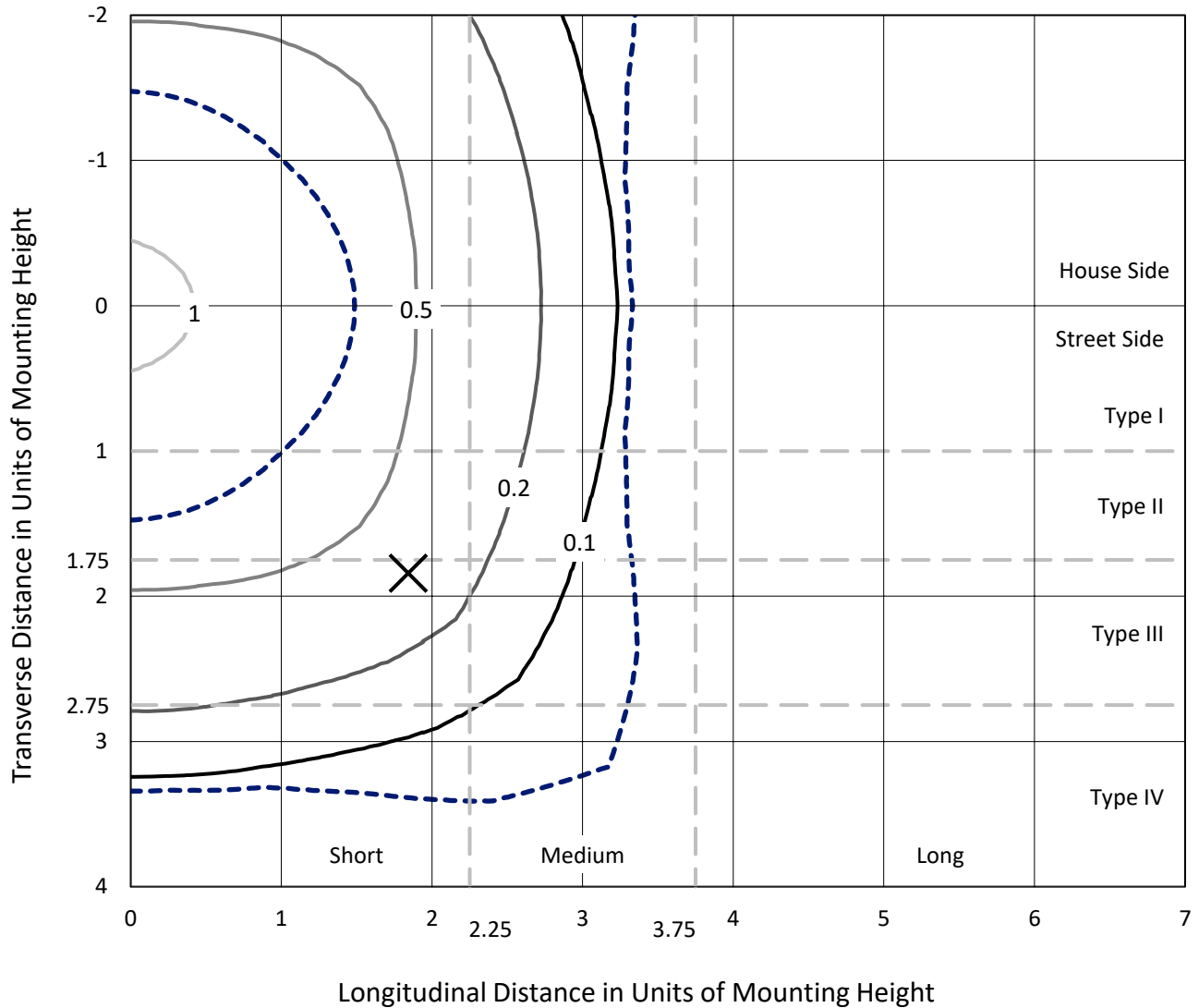
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

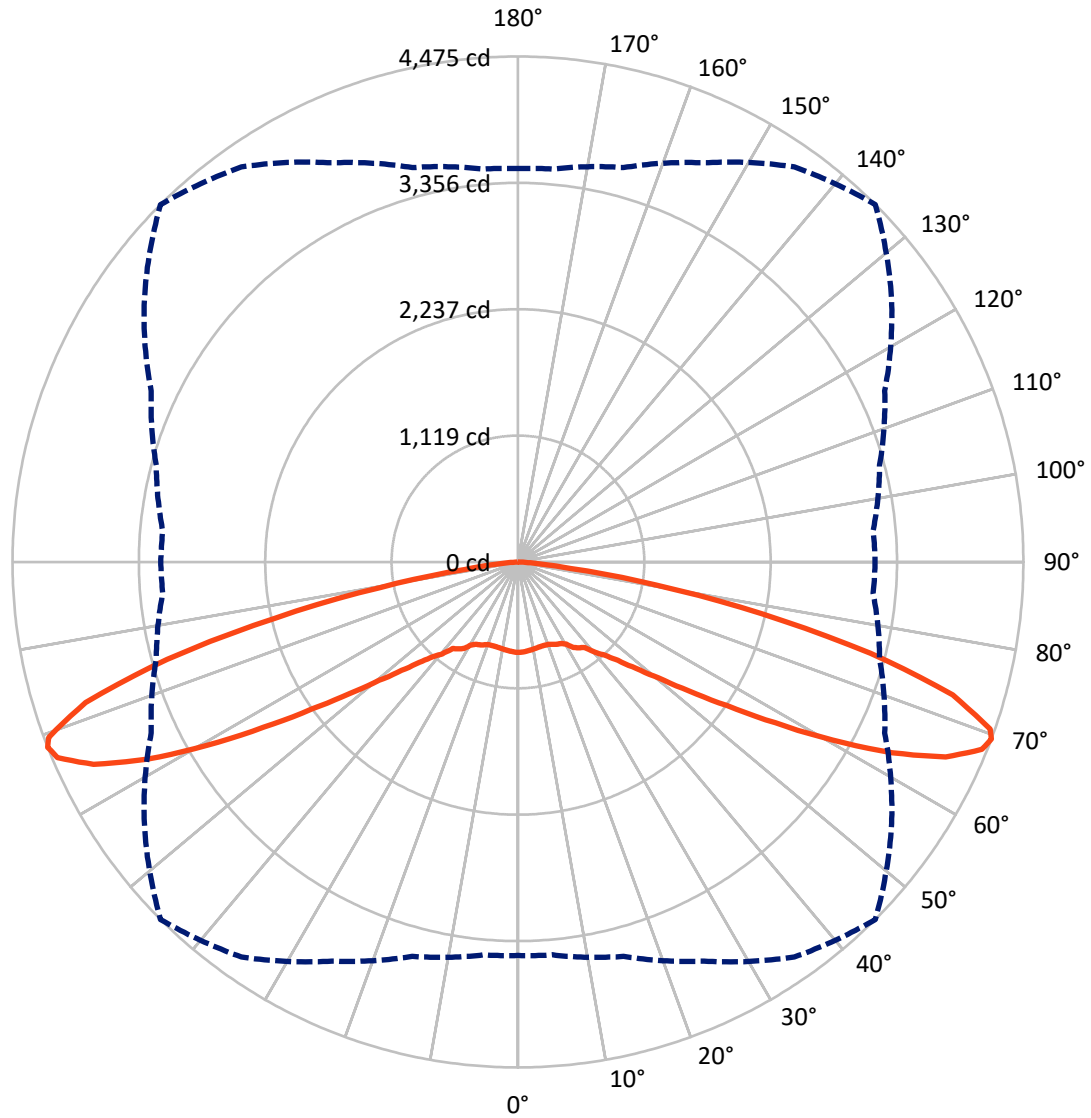
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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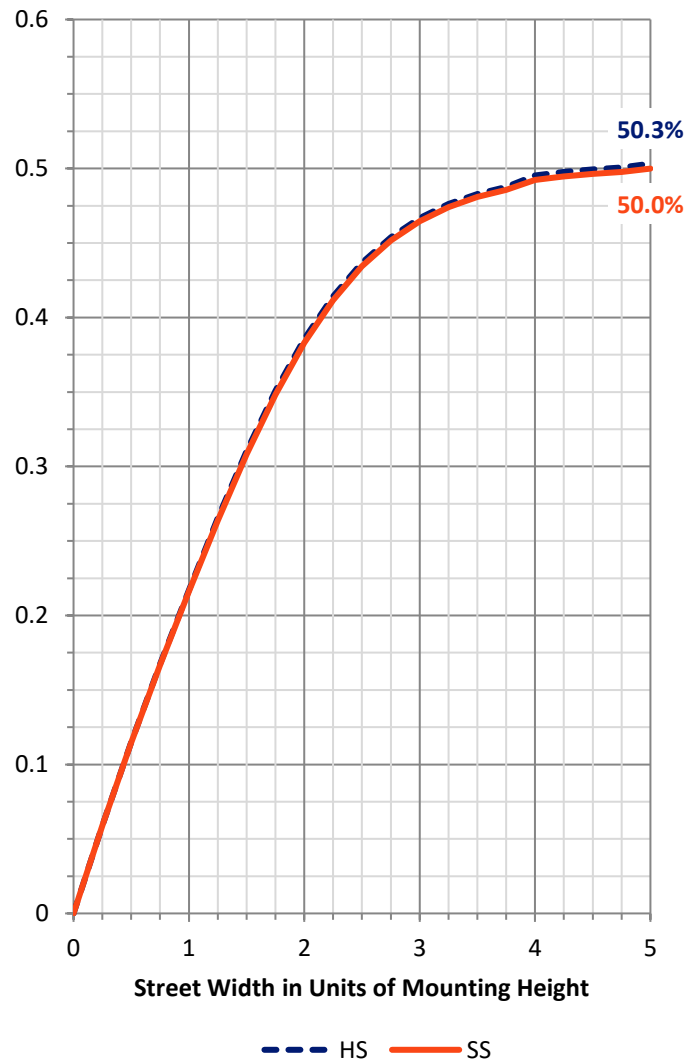
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5105.0	0.0	5105.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5105.0	0.0	5105.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10210.0	0.0	10210.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	0.7
10°-20°	221.9	2.2
20°-30°	376.3	3.7
30°-40°	585.1	5.7
40°-50°	1004.4	9.8
50°-60°	1998.4	19.6
60°-70°	3559.9	34.9
70°-80°	2242.0	22.0
80°-90°	146.4	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°	10210.0	100.0
0°-180°	10210.0	100.0



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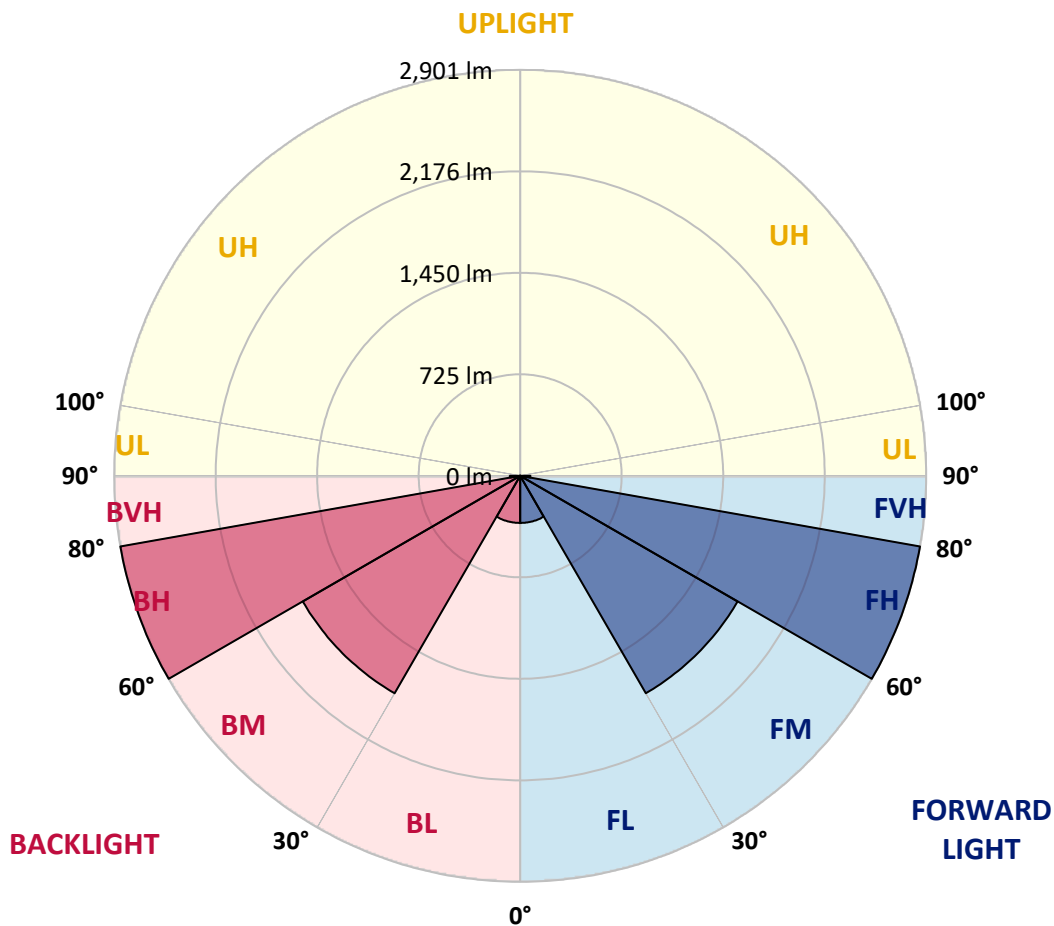
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.9	3.3			
FM (30°-60°)	1794.0	17.6			
FH (60°-80°)	2900.9	28.4			G2/5000
FVH (80°-90°)	73.2	0.7			G1/100
BL (0°-30°)	336.9	3.3	B1/500		
BM (30°-60°)	1794.0	17.6	B2/2500		
BH (60°-80°)	2900.9	28.4	B4/5000		G2/5000
BVH (80°-90°)	73.2	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°	801.2	801.2	801.2	801.2	801.2	801.2	801.2	801.2	801.2	801.2	801.2
2.5°	806.6	803.9	803.9	801.2	798.5	798.5	798.5	795.8	798.5	798.5	798.5
5°	803.9	801.2	798.5	795.8	795.8	793.2	795.8	793.2	793.2	793.2	793.2
7.5°	795.8	795.8	790.5	790.5	787.8	787.8	785.1	785.1	785.1	782.4	782.4
10°	795.8	793.2	790.5	785.1	782.4	782.4	782.4	779.8	782.4	782.4	782.4
12.5°	795.8	795.8	787.8	782.4	777.1	777.1	777.1	777.1	782.4	785.1	785.1
15°	801.2	798.5	790.5	779.8	774.4	774.4	774.4	777.1	782.4	787.8	787.8
17.5°	803.9	798.5	787.8	777.1	774.4	774.4	774.4	777.1	785.1	790.5	793.2
20°	806.6	803.9	790.5	779.8	777.1	777.1	777.1	777.1	785.1	793.2	795.8
22.5°	814.6	811.9	798.5	790.5	787.8	790.5	787.8	787.8	795.8	806.6	806.6
25°	825.3	820.0	806.6	801.2	801.2	806.6	806.6	801.2	809.2	817.3	820.0
27.5°	844.1	838.7	825.3	820.0	817.3	817.3	817.3	817.3	822.6	836.0	836.0
30°	860.1	857.5	852.1	852.1	849.4	844.1	844.1	849.4	852.1	857.5	860.1
32.5°	881.6	876.2	870.9	870.9	886.9	903.0	889.6	868.2	865.5	868.2	870.9
35°	927.1	921.8	908.4	900.3	916.4	932.5	911.1	897.7	905.7	913.7	913.7
37.5°	991.4	988.8	978.0	962.0	956.6	959.3	951.3	962.0	983.4	999.5	1002.2
40°	1058.4	1055.8	1045.0	1037.0	1039.7	1053.1	1047.7	1037.0	1050.4	1061.1	1061.1
42.5°	1162.9	1152.2	1136.1	1114.7	1117.4	1128.1	1114.7	1125.4	1144.2	1162.9	1165.6
45°	1302.3	1291.6	1270.1	1251.4	1238.0	1243.3	1243.3	1262.1	1283.5	1305.0	1313.0
47.5°	1452.3	1449.7	1428.2	1412.1	1398.7	1406.8	1406.8	1406.8	1441.6	1463.1	1463.1
50°	1637.2	1629.2	1629.2	1615.8	1610.4	1613.1	1602.4	1613.1	1629.2	1634.5	1626.5
52.5°	1856.9	1848.9	1854.3	1859.6	1873.0	1891.8	1865.0	1862.3	1854.3	1846.2	1843.6
55°	2119.5	2127.6	2149.0	2183.9	2205.3	2242.8	2202.6	2154.4	2132.9	2111.5	2095.4
57.5°	2433.1	2446.5	2478.6	2561.7	2652.8	2687.6	2618.0	2529.5	2454.5	2392.9	2406.3
60°	2843.0	2835.0	2888.6	3001.1	3129.7	3199.4	3089.6	2944.9	2824.3	2794.8	2802.8
62.5°	3279.8	3295.9	3333.4	3483.5	3644.2	3719.3	3585.3	3370.9	3215.5	3135.1	3135.1
65°	3553.1	3563.8	3668.3	3880.0	4059.6	4161.4	3971.1	3660.3	3437.9	3303.9	3295.9
67.5°	3593.3	3604.0	3721.9	3992.6	4287.3	4429.3	4099.8	3695.1	3435.2	3271.8	3266.4
69°	3483.5	3491.5	3614.8	3898.8	4268.6	4474.9	4038.1	3582.6	3314.6	3156.5	3161.9
70°	3325.4	3357.5	3451.3	3740.7	4169.4	4434.7	3925.6	3456.7	3178.0	3052.0	3030.6
72.5°	2607.2	2628.7	2784.1	3143.1	3721.9	4024.7	3448.6	2926.1	2642.1	2510.8	2542.9
75°	1476.4	1471.1	1669.4	2183.9	2869.8	3223.5	2714.4	2106.2	1693.5	1535.4	1556.8
77.5°	562.7	586.8	720.8	1120.1	1803.4	2202.6	1800.7	1125.4	787.8	613.6	584.1
80°	182.2	192.9	254.6	407.3	769.0	1243.3	841.4	434.1	273.3	206.3	192.9
82.5°	72.3	80.4	96.5	136.7	259.9	468.9	284.0	158.1	117.9	96.5	88.4
85°	40.2	37.5	50.9	61.6	88.4	134.0	96.5	75.0	64.3	45.6	42.9
87.5°	13.4	13.4	21.4	21.4	24.1	21.4	24.1	26.8	26.8	16.1	13.4
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)