

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: P573291

Luminaire Tested: **ARCH-S-PA2-60-727-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573291
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-PA2-60-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8163 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

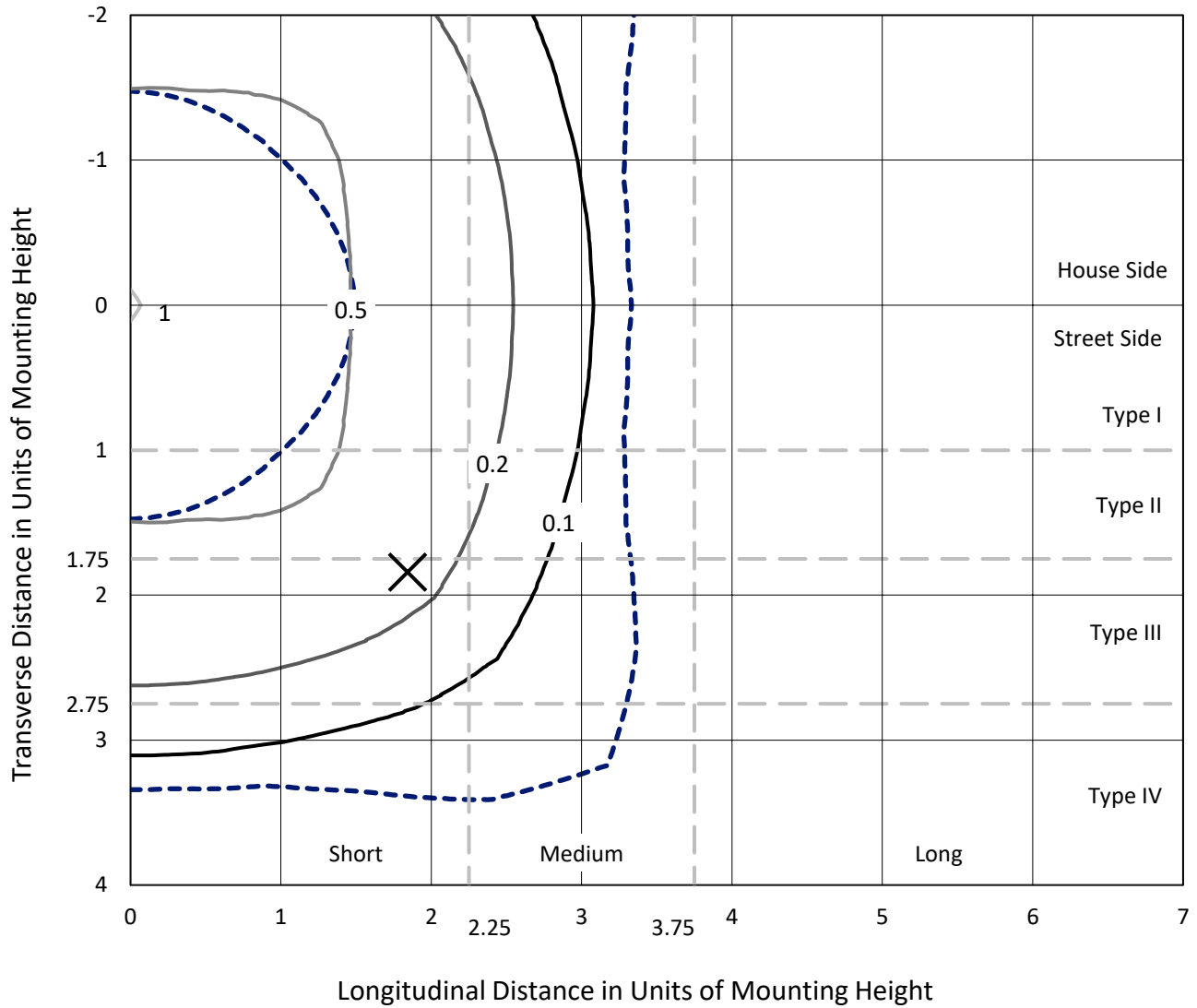
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

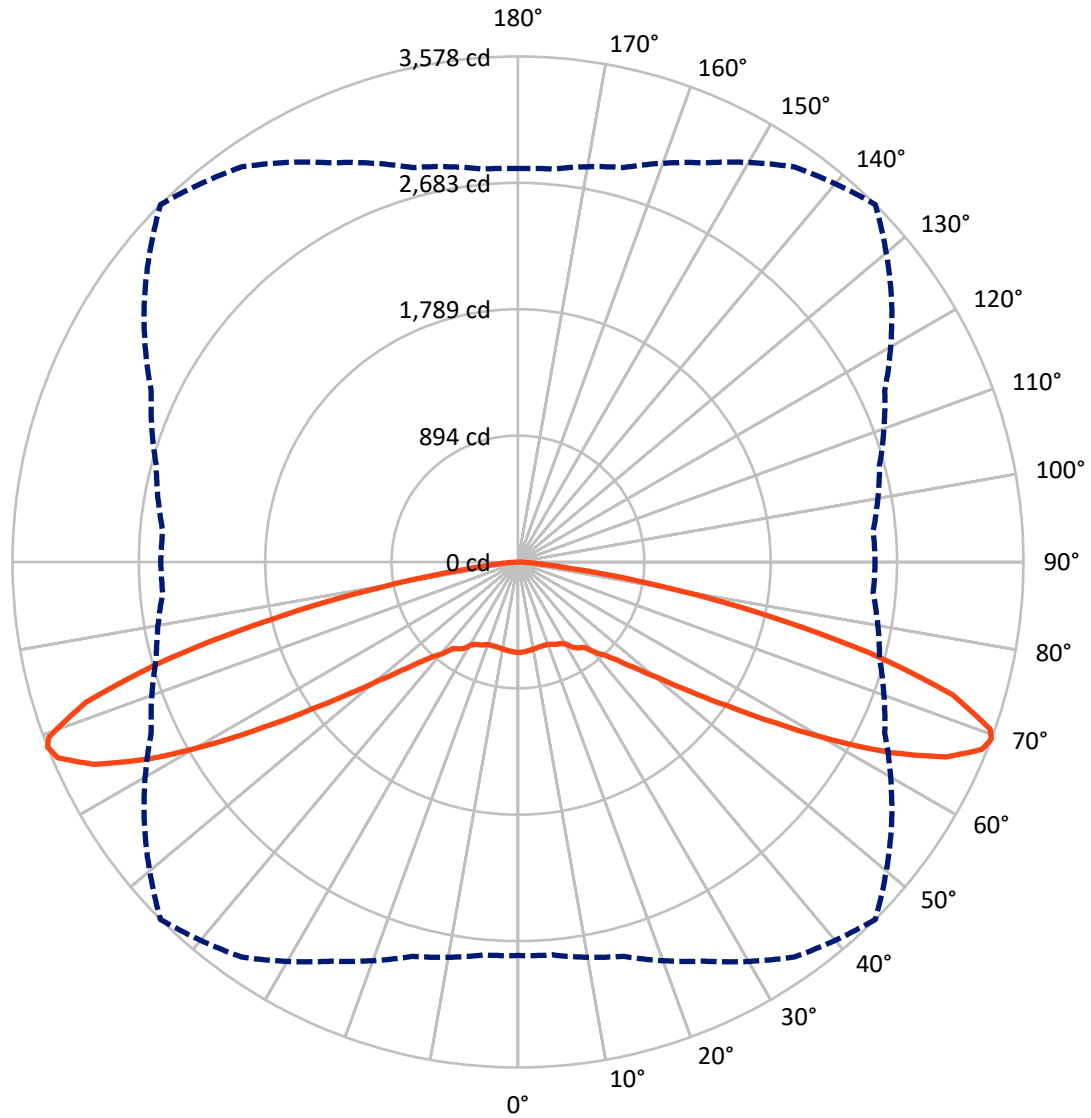
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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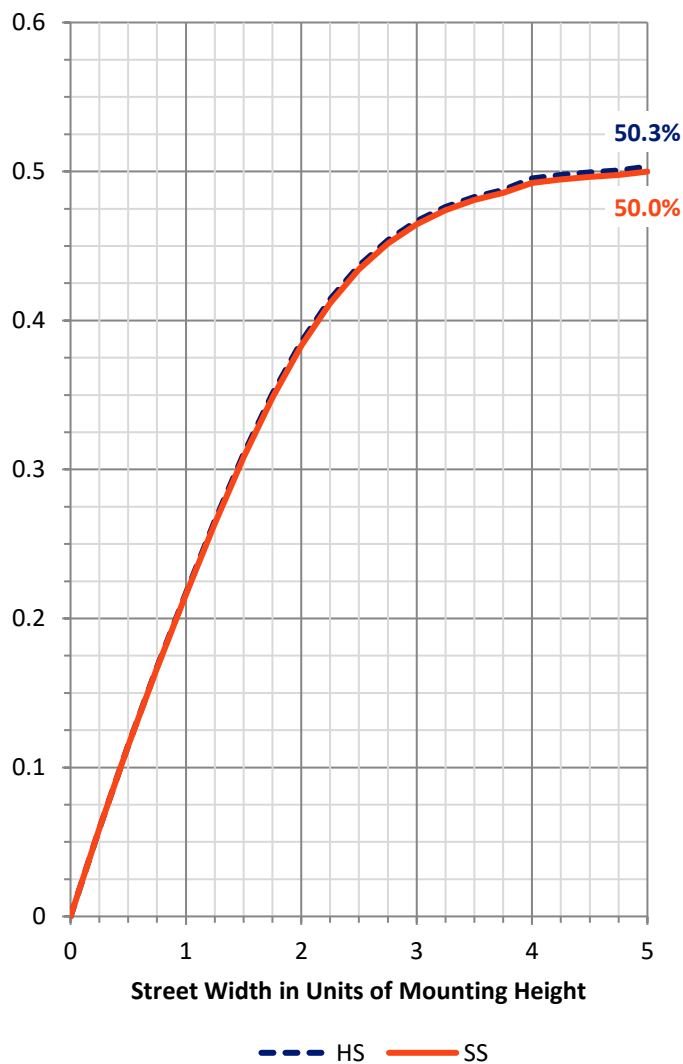
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4081.5	0.0	4081.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4081.5	0.0	4081.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8163.0	0.0	8163.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	0.7
10°-20°	177.4	2.2
20°-30°	300.9	3.7
30°-40°	467.8	5.7
40°-50°	803.1	9.8
50°-60°	1597.8	19.6
60°-70°	2846.2	34.9
70°-80°	1792.5	22.0
80°-90°	117.1	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°	8163.0	100.0
0°-180°	8163.0	100.0

Coefficient of Utilization



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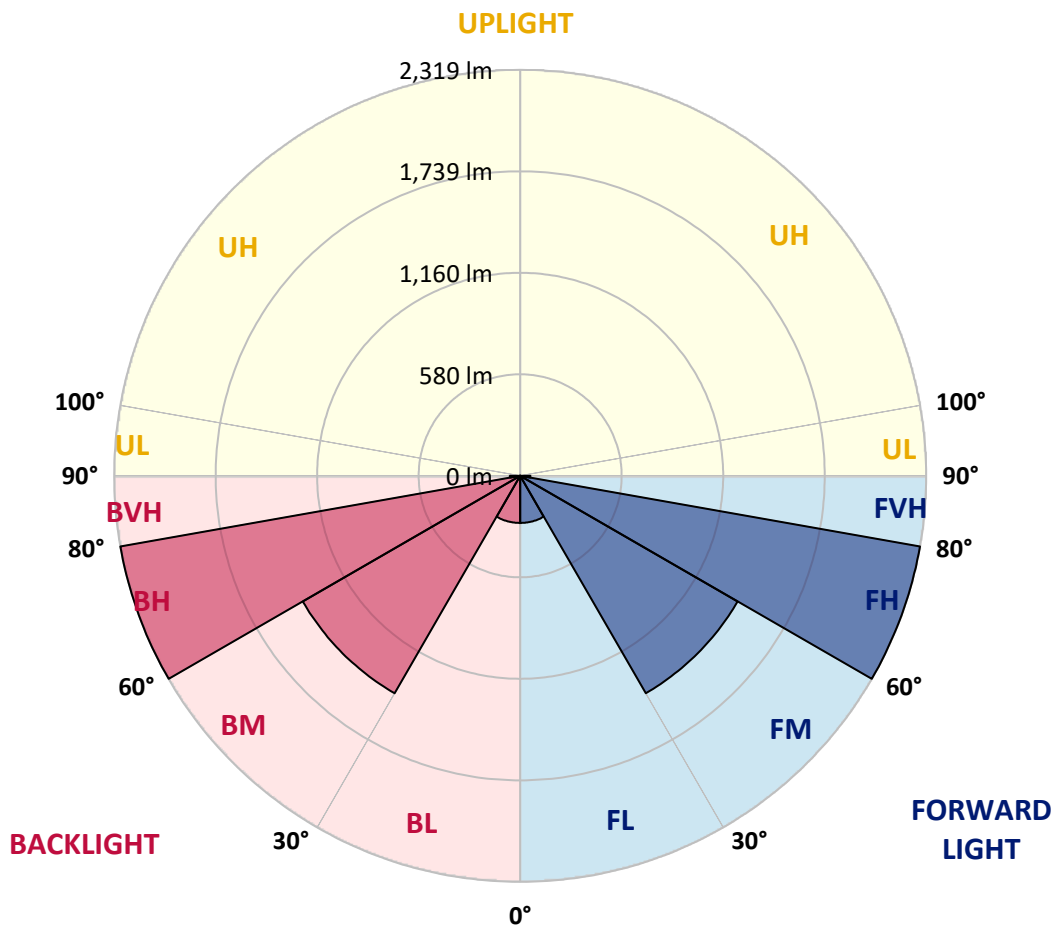
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	269.3	3.3			
FM (30°-60°)	1434.3	17.6			
FH (60°-80°)	2319.3	28.4			G2/5000
FVH (80°-90°)	58.5	0.7			G1/100
BL (0°-30°)	269.3	3.3	B1/500		
BM (30°-60°)	1434.3	17.6	B2/2500		
BH (60°-80°)	2319.3	28.4	B3/2500		G2/5000
BVH (80°-90°)	58.5	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°	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6	640.6
2.5°	644.8	642.7	642.7	640.6	638.4	638.4	638.4	636.3	638.4	638.4	638.4
5°	642.7	640.6	638.4	636.3	636.3	634.1	636.3	634.1	634.1	634.1	634.1
7.5°	636.3	636.3	632.0	632.0	629.9	629.9	627.7	627.7	627.7	625.6	625.6
10°	636.3	634.1	632.0	627.7	625.6	625.6	625.6	623.4	625.6	625.6	625.6
12.5°	636.3	636.3	629.9	625.6	621.3	621.3	621.3	621.3	625.6	627.7	627.7
15°	640.6	638.4	632.0	623.4	619.1	619.1	619.1	621.3	625.6	629.9	629.9
17.5°	642.7	638.4	629.9	621.3	619.1	619.1	619.1	621.3	627.7	632.0	634.1
20°	644.8	642.7	632.0	623.4	621.3	621.3	621.3	621.3	627.7	634.1	636.3
22.5°	651.3	649.1	638.4	632.0	629.9	632.0	629.9	629.9	636.3	644.8	644.8
25°	659.8	655.6	644.8	640.6	640.6	644.8	644.8	640.6	647.0	653.4	655.6
27.5°	674.8	670.6	659.8	655.6	653.4	653.4	653.4	653.4	657.7	668.4	668.4
30°	687.7	685.6	681.3	681.3	679.1	674.8	674.8	679.1	681.3	685.6	687.7
32.5°	704.8	700.5	696.3	696.3	709.1	722.0	711.3	694.1	692.0	694.1	696.3
35°	741.3	737.0	726.3	719.8	732.7	745.5	728.4	717.7	724.1	730.5	730.5
37.5°	792.7	790.5	782.0	769.1	764.8	767.0	760.5	769.1	786.2	799.1	801.2
40°	846.2	844.1	835.5	829.1	831.2	841.9	837.7	829.1	839.8	848.4	848.4
42.5°	929.8	921.2	908.4	891.2	893.4	901.9	891.2	899.8	914.8	929.8	931.9
45°	1041.2	1032.6	1015.5	1000.5	989.8	994.1	994.1	1009.0	1026.2	1043.3	1049.8
47.5°	1161.2	1159.0	1141.9	1129.0	1118.3	1124.7	1124.7	1124.7	1152.6	1169.7	1169.7
50°	1309.0	1302.6	1302.6	1291.8	1287.6	1289.7	1281.1	1289.7	1302.6	1306.8	1300.4
52.5°	1484.6	1478.2	1482.5	1486.8	1497.5	1512.5	1491.1	1488.9	1482.5	1476.1	1473.9
55°	1694.6	1701.0	1718.2	1746.0	1763.2	1793.1	1761.0	1722.5	1705.3	1688.2	1675.3
57.5°	1945.3	1956.0	1981.7	2048.1	2120.9	2148.8	2093.1	2022.4	1962.4	1913.1	1923.8
60°	2273.0	2266.6	2309.5	2399.4	2502.3	2558.0	2470.1	2354.4	2258.0	2234.5	2240.9
62.5°	2622.2	2635.1	2665.1	2785.1	2913.6	2973.6	2866.5	2695.1	2570.8	2506.6	2506.6
65°	2840.8	2849.3	2932.9	3102.1	3245.7	3327.1	3175.0	2926.5	2748.6	2641.5	2635.1
67.5°	2872.9	2881.5	2975.7	3192.1	3427.8	3541.3	3277.8	2954.3	2746.5	2615.8	2611.5
69°	2785.1	2791.5	2890.0	3117.1	3412.8	3577.7	3228.5	2864.3	2650.1	2523.7	2528.0
70°	2658.7	2684.4	2759.3	2990.7	3333.5	3545.6	3138.5	2763.6	2540.8	2440.1	2423.0
72.5°	2084.5	2101.6	2225.9	2513.0	2975.7	3217.8	2757.2	2339.4	2112.4	2007.4	2033.1
75°	1180.4	1176.2	1334.7	1746.0	2294.5	2577.2	2170.2	1683.9	1354.0	1227.6	1244.7
77.5°	449.9	469.2	576.3	895.5	1441.8	1761.0	1439.7	899.8	629.9	490.6	467.0
80°	145.7	154.2	203.5	325.6	614.9	994.1	672.7	347.1	218.5	165.0	154.2
82.5°	57.8	64.3	77.1	109.3	207.8	374.9	227.1	126.4	94.3	77.1	70.7
85°	32.1	30.0	40.7	49.3	70.7	107.1	77.1	60.0	51.4	36.4	34.3
87.5°	10.7	10.7	17.1	17.1	19.3	17.1	19.3	21.4	21.4	12.9	10.7
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)