

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: P573372

Luminaire Tested: **ARCH-S-PA2-70-727-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573372
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-PA2-70-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9238 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

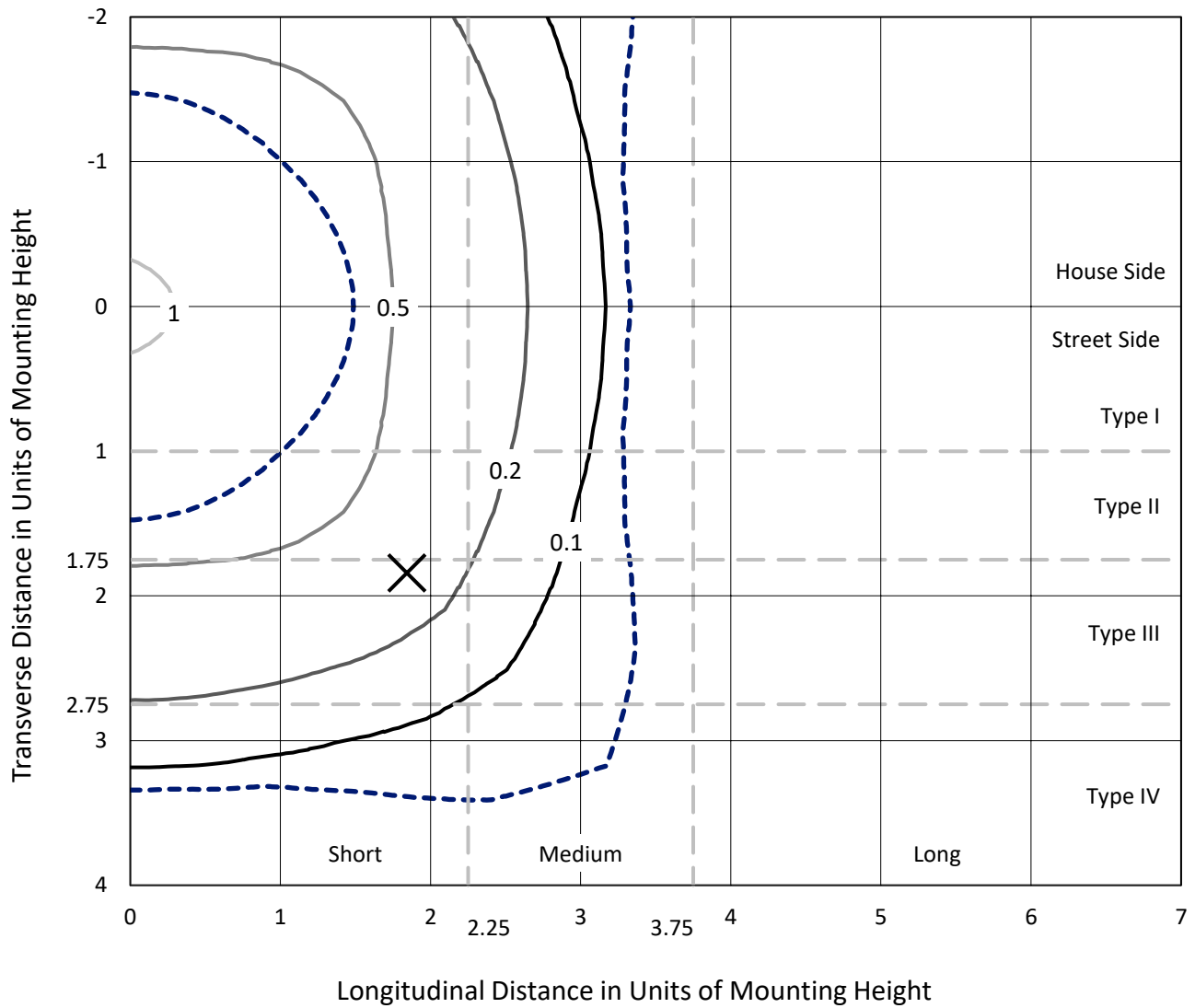
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

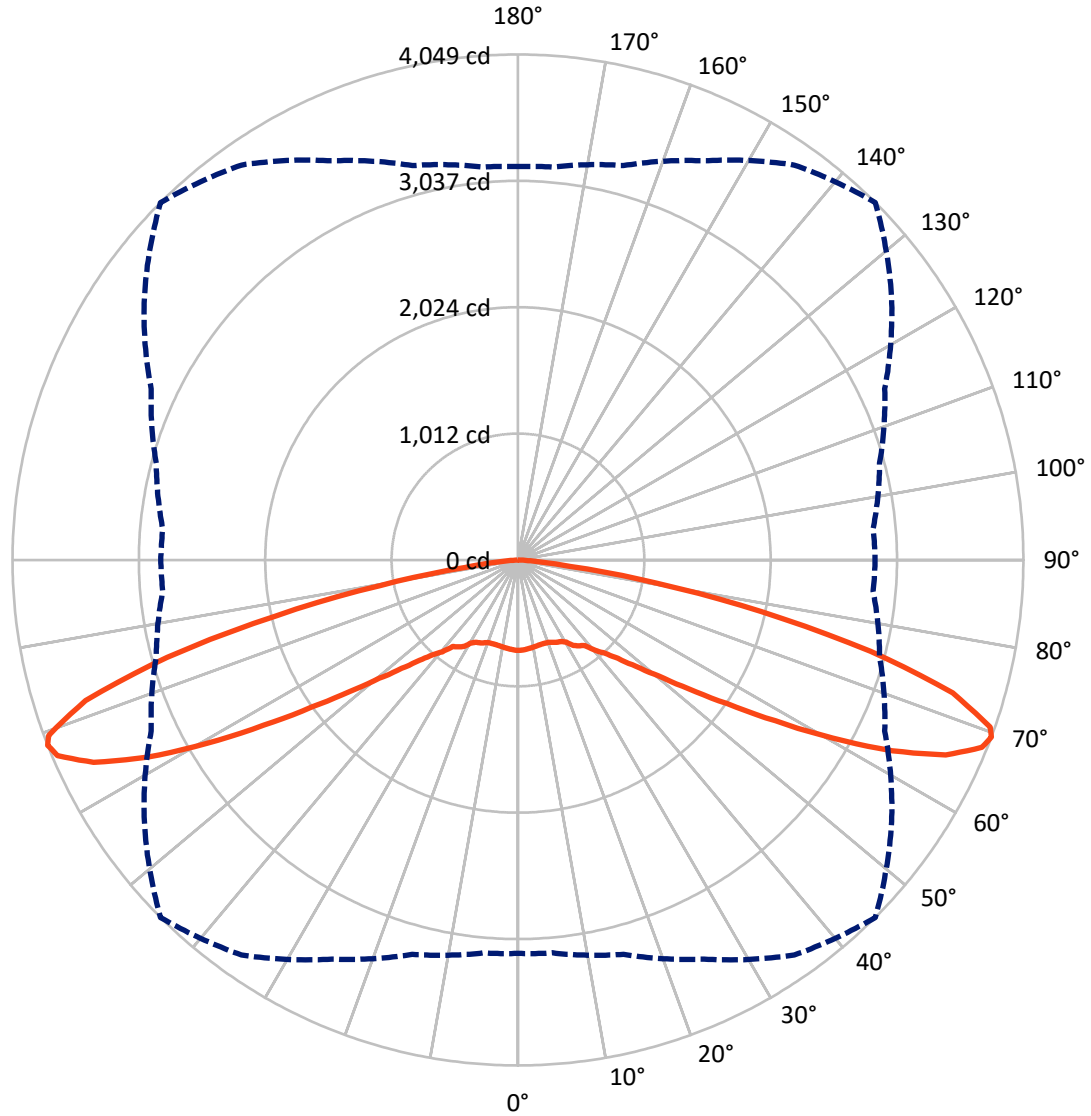
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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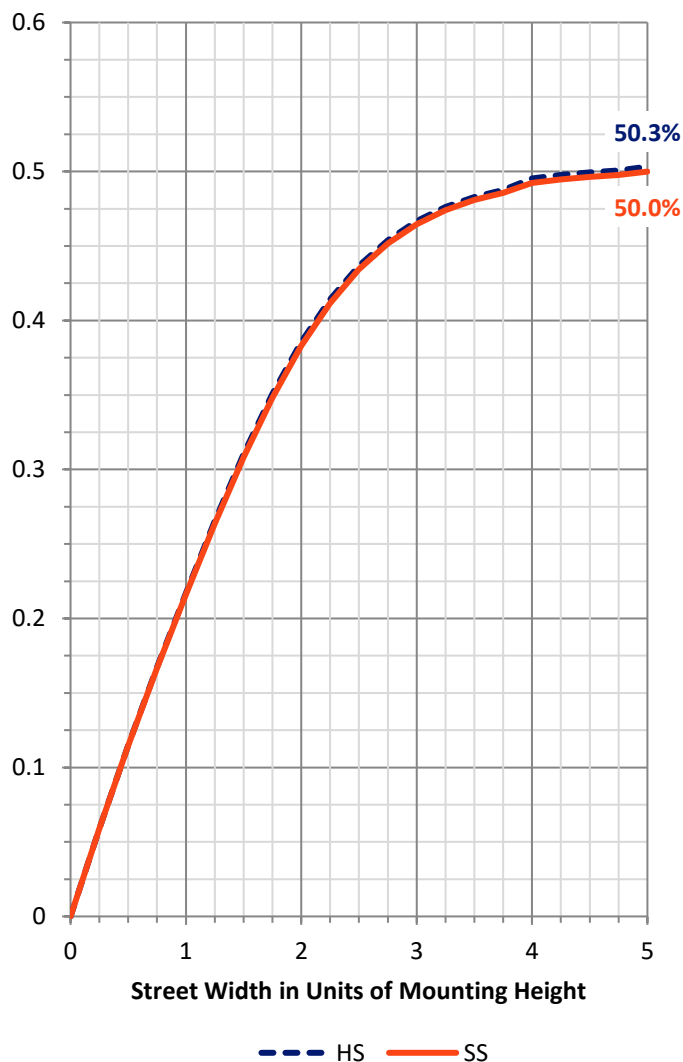
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4619.0	0.0	4619.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4619.0	0.0	4619.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9238.0	0.0	9238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	0.7
10°-20°	200.8	2.2
20°-30°	340.5	3.7
30°-40°	529.4	5.7
40°-50°	908.8	9.8
50°-60°	1808.2	19.6
60°-70°	3221.0	34.9
70°-80°	2028.5	22.0
80°-90°	132.5	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°	9238.0	100.0
0°-180°	9238.0	100.0

Coefficient of Utilization



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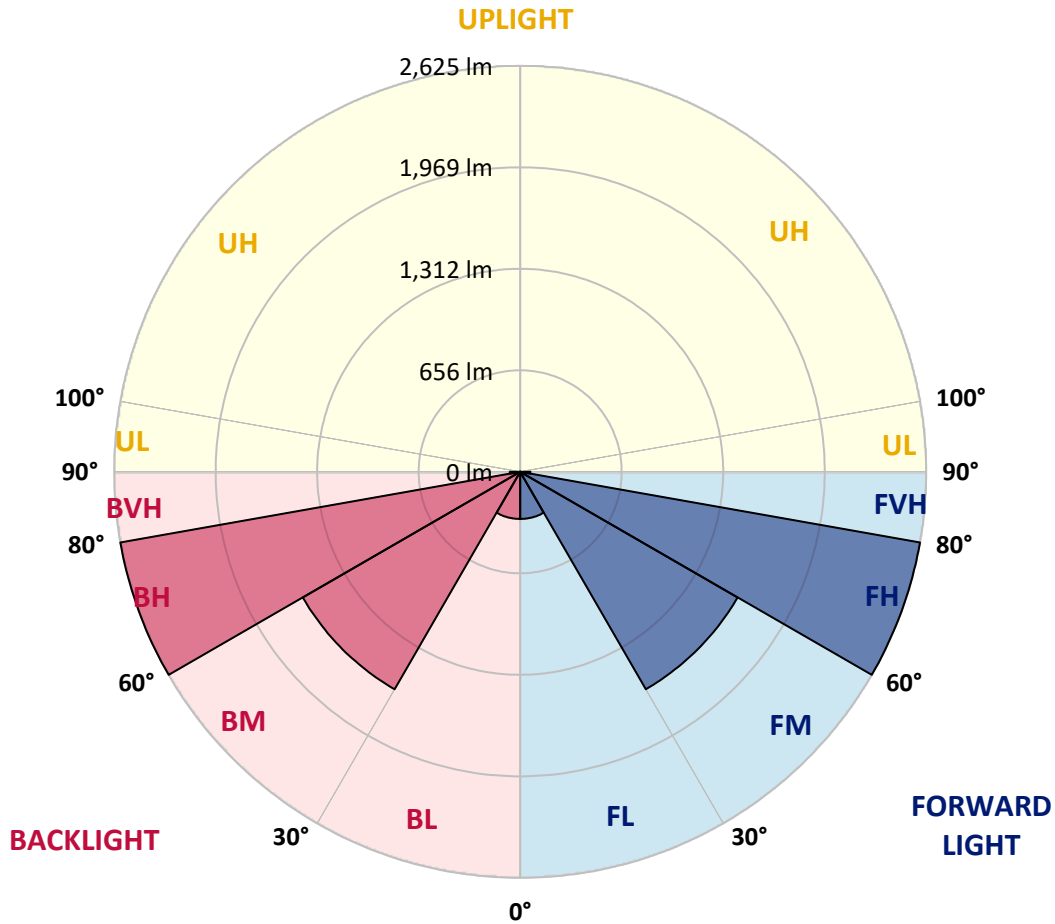
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.8	3.3			
FM (30°-60°)	1623.2	17.6			
FH (60°-80°)	2624.8	28.4			G2/5000
FVH (80°-90°)	66.2	0.7			G1/100
BL (0°-30°)	304.8	3.3	B1/500		
BM (30°-60°)	1623.2	17.6	B2/2500		
BH (60°-80°)	2624.8	28.4	B4/5000		G2/5000
BVH (80°-90°)	66.2	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°	724.9	724.9	724.9	724.9	724.9	724.9	724.9	724.9	724.9	724.9	724.9
2.5°	729.8	727.3	727.3	724.9	722.5	722.5	722.5	720.1	722.5	722.5	722.5
5°	727.3	724.9	722.5	720.1	720.1	717.6	720.1	717.6	717.6	717.6	717.6
7.5°	720.1	720.1	715.2	715.2	712.8	712.8	710.4	710.4	710.4	707.9	707.9
10°	720.1	717.6	715.2	710.4	707.9	707.9	707.9	705.5	707.9	707.9	707.9
12.5°	720.1	720.1	712.8	707.9	703.1	703.1	703.1	703.1	707.9	710.4	710.4
15°	724.9	722.5	715.2	705.5	700.7	700.7	700.7	703.1	707.9	712.8	712.8
17.5°	727.3	722.5	712.8	703.1	700.7	700.7	700.7	703.1	710.4	715.2	717.6
20°	729.8	727.3	715.2	705.5	703.1	703.1	703.1	703.1	710.4	717.6	720.1
22.5°	737.0	734.6	722.5	715.2	712.8	712.8	712.8	712.8	720.1	729.8	729.8
25°	746.7	741.9	729.8	724.9	724.9	729.8	729.8	724.9	732.2	739.5	741.9
27.5°	763.7	758.9	746.7	741.9	739.5	739.5	739.5	739.5	744.3	756.4	756.4
30°	778.3	775.8	771.0	771.0	768.6	763.7	763.7	768.6	771.0	775.8	778.3
32.5°	797.7	792.8	788.0	788.0	802.5	817.1	804.9	785.5	783.1	785.5	788.0
35°	838.9	834.0	821.9	814.6	829.2	843.7	824.3	812.2	819.5	826.7	826.7
37.5°	897.1	894.6	884.9	870.4	865.5	868.0	860.7	870.4	889.8	904.3	906.8
40°	957.7	955.2	945.5	938.3	940.7	952.8	948.0	938.3	950.4	960.1	960.1
42.5°	1052.2	1042.5	1028.0	1008.6	1011.0	1020.7	1008.6	1018.3	1035.3	1052.2	1054.6
45°	1178.3	1168.6	1149.2	1132.2	1120.1	1125.0	1125.0	1141.9	1161.3	1180.7	1188.0
47.5°	1314.1	1311.6	1292.2	1277.7	1265.6	1272.9	1272.9	1272.9	1304.4	1323.8	1323.8
50°	1481.4	1474.1	1474.1	1462.0	1457.1	1459.5	1449.8	1459.5	1474.1	1478.9	1471.7
52.5°	1680.2	1672.9	1677.7	1682.6	1694.7	1711.7	1687.4	1685.0	1677.7	1670.5	1668.0
55°	1917.8	1925.0	1944.4	1976.0	1995.3	2029.3	1992.9	1949.3	1929.9	1910.5	1895.9
57.5°	2201.4	2213.6	2242.6	2317.8	2400.2	2431.8	2368.7	2288.7	2220.8	2165.1	2177.2
60°	2572.4	2565.1	2613.6	2715.4	2831.8	2894.8	2795.4	2664.5	2555.4	2528.7	2536.0
62.5°	2967.6	2982.1	3016.1	3151.8	3297.3	3365.2	3244.0	3050.0	2909.4	2836.6	2836.6
65°	3214.9	3224.6	3319.1	3510.7	3673.1	3765.2	3593.1	3311.8	3110.6	2989.4	2982.1
67.5°	3251.2	3260.9	3367.6	3612.5	3879.2	4007.7	3709.5	3343.4	3108.2	2960.3	2955.4
69°	3151.8	3159.1	3270.6	3527.6	3862.2	4048.9	3653.7	3241.5	2999.1	2856.0	2860.9
70°	3008.8	3037.9	3122.7	3384.6	3772.5	4012.5	3551.9	3127.6	2875.4	2761.5	2742.1
72.5°	2359.0	2378.4	2519.0	2843.9	3367.6	3641.6	3120.3	2647.5	2390.5	2271.7	2300.8
75°	1335.9	1331.0	1510.5	1976.0	2596.6	2916.7	2456.0	1905.6	1532.3	1389.2	1408.6
77.5°	509.1	531.0	652.2	1013.4	1631.7	1992.9	1629.3	1018.3	712.8	555.2	528.5
80°	164.9	174.6	230.3	368.5	695.8	1125.0	761.3	392.8	247.3	186.7	174.6
82.5°	65.5	72.7	87.3	123.6	235.2	424.3	257.0	143.0	106.7	87.3	80.0
85°	36.4	33.9	46.1	55.8	80.0	121.2	87.3	67.9	58.2	41.2	38.8
87.5°	12.1	12.1	19.4	19.4	21.8	19.4	21.8	24.2	24.2	14.5	12.1
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)