

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: P573534

Luminaire Tested: **ARCH-S-PA2-90-727-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573534
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-PA2-90-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11077 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

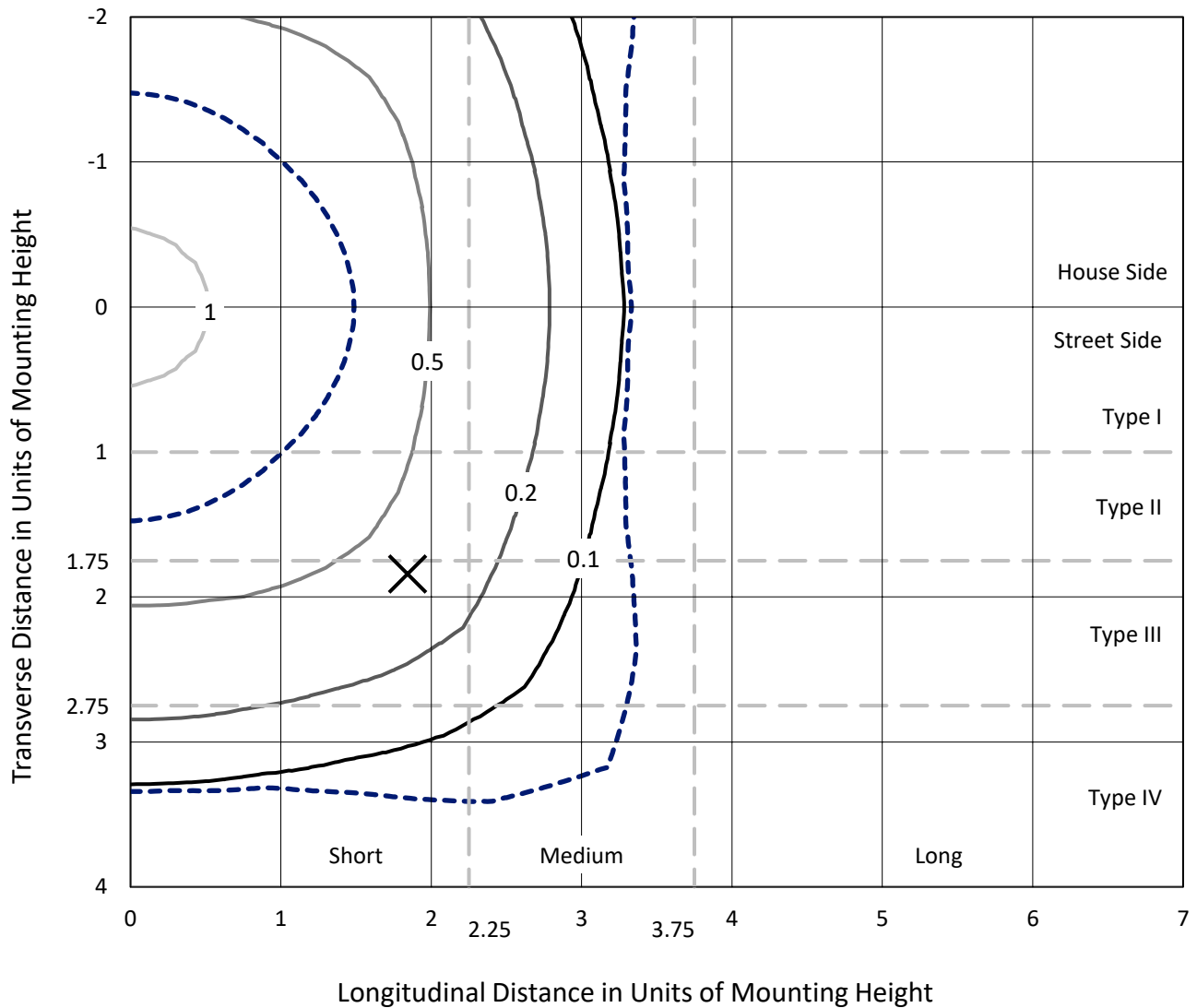
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

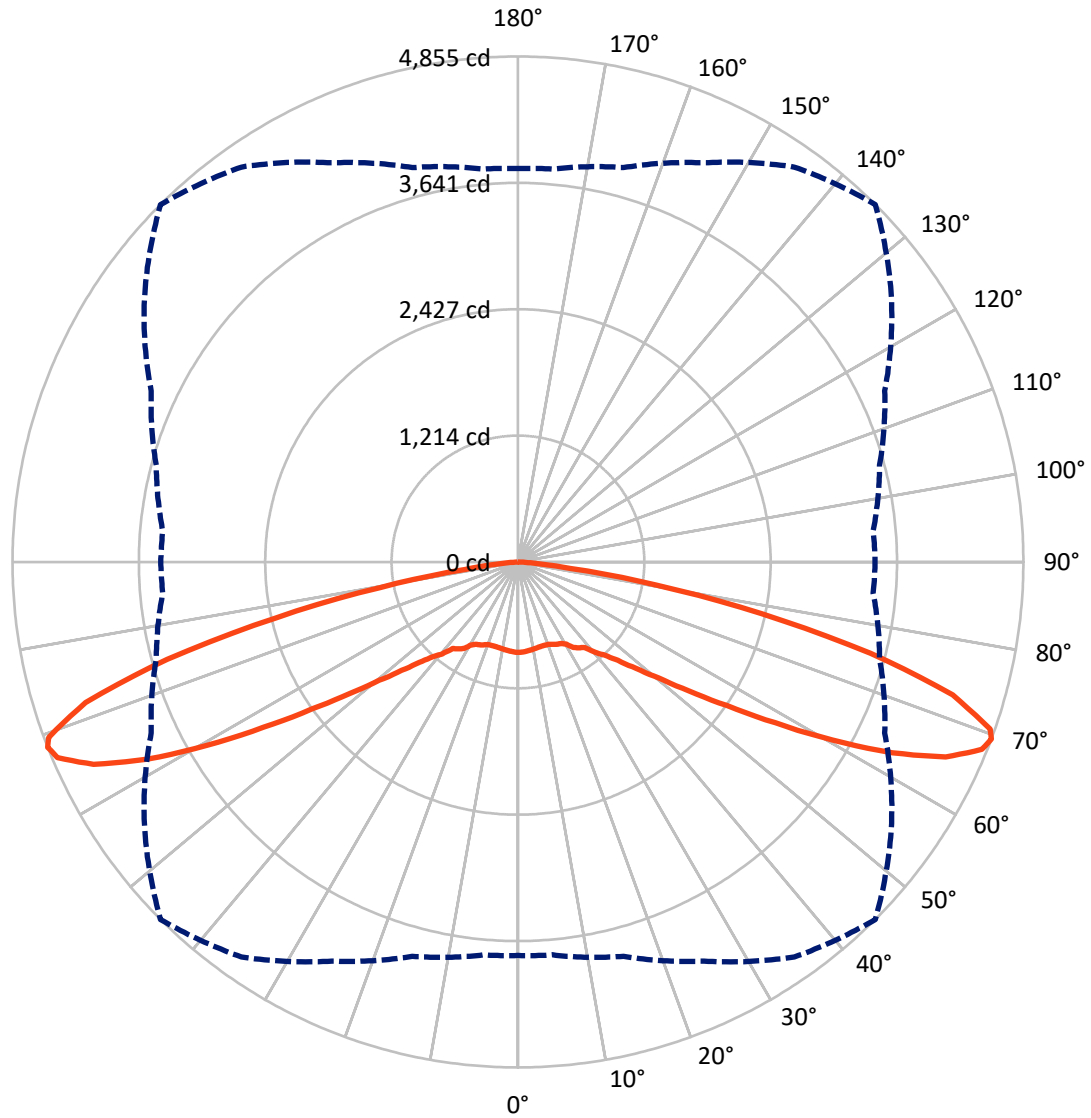
✕ Max cd
 - - - 1/2 Max cd



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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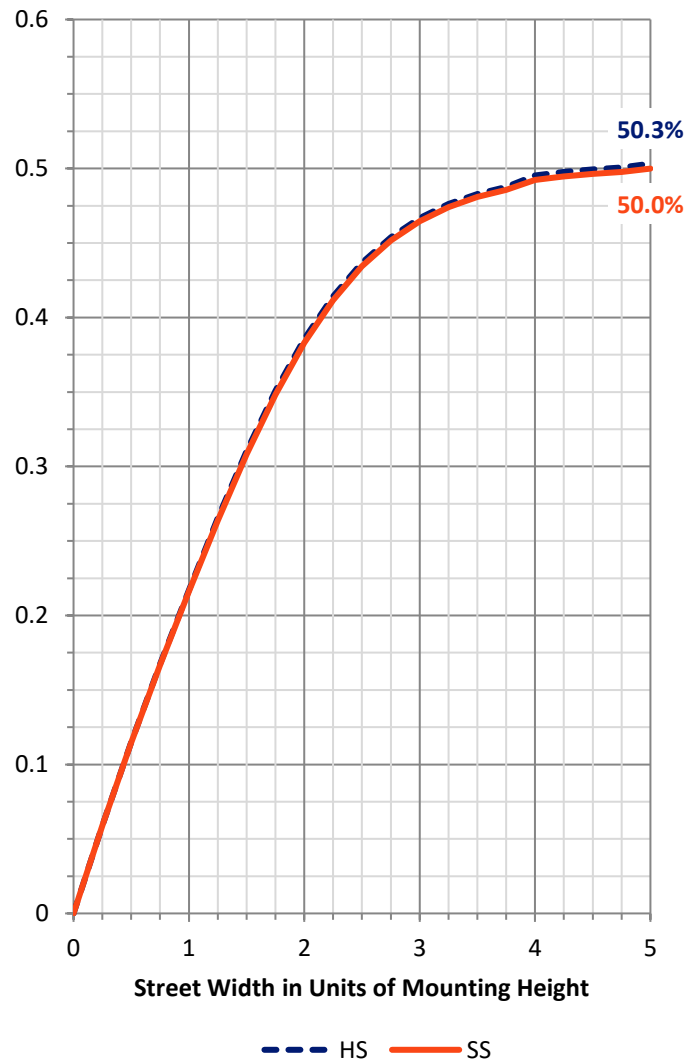
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5538.5	0.0	5538.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5538.5	0.0	5538.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11077.0	0.0	11077.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	0.7
10°-20°	240.8	2.2
20°-30°	408.3	3.7
30°-40°	634.8	5.7
40°-50°	1089.7	9.8
50°-60°	2168.1	19.6
60°-70°	3862.2	34.9
70°-80°	2432.4	22.0
80°-90°	158.9	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°	11077.0	100.0
0°-180°	11077.0	100.0



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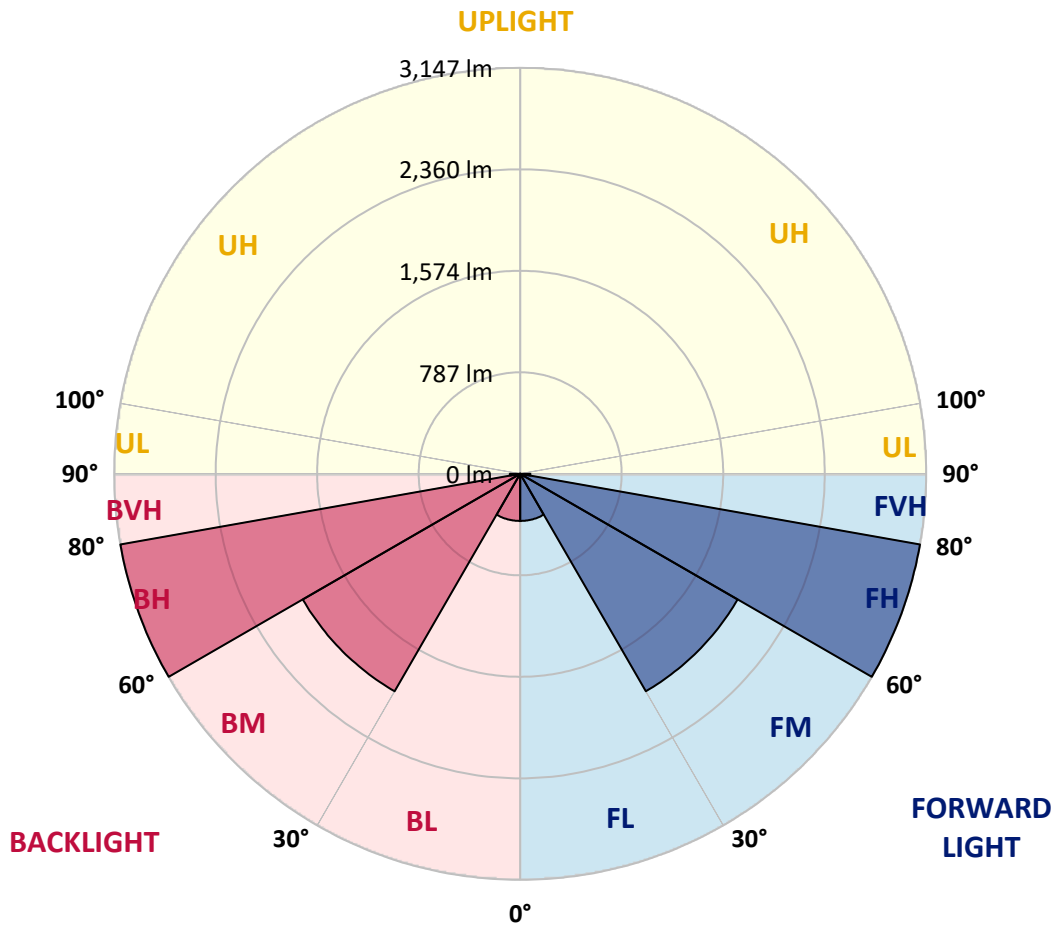
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.5	3.3			
FM (30°-60°)	1946.3	17.6			
FH (60°-80°)	3147.3	28.4			G2/5000
FVH (80°-90°)	79.4	0.7			G1/100
BL (0°-30°)	365.5	3.3	B1/500		
BM (30°-60°)	1946.3	17.6	B2/2500		
BH (60°-80°)	3147.3	28.4	B4/5000		G2/5000
BVH (80°-90°)	79.4	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°	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2
2.5°	875.0	872.1	872.1	869.2	866.3	866.3	866.3	863.4	866.3	866.3	866.3
5°	872.1	869.2	866.3	863.4	863.4	860.5	863.4	860.5	860.5	860.5	860.5
7.5°	863.4	863.4	857.6	857.6	854.7	854.7	851.8	851.8	851.8	848.9	848.9
10°	863.4	860.5	857.6	851.8	848.9	848.9	848.9	846.0	848.9	848.9	848.9
12.5°	863.4	863.4	854.7	848.9	843.1	843.1	843.1	843.1	848.9	851.8	851.8
15°	869.2	866.3	857.6	846.0	840.2	840.2	840.2	843.1	848.9	854.7	854.7
17.5°	872.1	866.3	854.7	843.1	840.2	840.2	840.2	843.1	851.8	857.6	860.5
20°	875.0	872.1	857.6	846.0	843.1	843.1	843.1	843.1	851.8	860.5	863.4
22.5°	883.8	880.9	866.3	857.6	854.7	854.7	854.7	854.7	863.4	875.0	875.0
25°	895.4	889.6	875.0	869.2	869.2	875.0	875.0	869.2	878.0	886.7	889.6
27.5°	915.7	909.9	895.4	889.6	886.7	886.7	886.7	886.7	892.5	907.0	907.0
30°	933.2	930.3	924.5	924.5	921.6	915.7	915.7	921.6	924.5	930.3	933.2
32.5°	956.4	950.6	944.8	944.8	962.3	979.7	965.2	941.9	939.0	941.9	944.8
35°	1005.9	1000.0	985.5	976.8	994.2	1011.7	988.4	973.9	982.6	991.3	991.3
37.5°	1075.6	1072.7	1061.1	1043.7	1037.8	1040.7	1032.0	1043.7	1066.9	1084.4	1087.3
40°	1148.3	1145.4	1133.8	1125.1	1128.0	1142.5	1136.7	1125.1	1139.6	1151.2	1151.2
42.5°	1261.7	1250.1	1232.6	1209.4	1212.3	1223.9	1209.4	1221.0	1241.3	1261.7	1264.6
45°	1412.9	1401.2	1378.0	1357.6	1343.1	1348.9	1348.9	1369.3	1392.5	1415.8	1424.5
47.5°	1575.7	1572.8	1549.5	1532.1	1517.5	1526.2	1526.2	1526.2	1564.0	1587.3	1587.3
50°	1776.3	1767.5	1767.5	1753.0	1747.2	1750.1	1738.5	1750.1	1767.5	1773.3	1764.6
52.5°	2014.6	2005.9	2011.7	2017.5	2032.1	2052.4	2023.4	2020.4	2011.7	2003.0	2000.1
55°	2299.5	2308.3	2331.5	2369.3	2392.6	2433.3	2389.7	2337.3	2314.1	2290.8	2273.4
57.5°	2639.7	2654.2	2689.1	2779.2	2878.1	2915.8	2840.3	2744.3	2662.9	2596.1	2610.6
60°	3084.5	3075.7	3133.9	3256.0	3395.5	3471.1	3351.9	3194.9	3064.1	3032.1	3040.8
62.5°	3558.3	3575.8	3616.5	3779.3	3953.7	4035.1	3889.7	3657.2	3488.5	3401.3	3401.3
65°	3854.8	3866.5	3979.8	4209.5	4404.3	4514.8	4308.4	3971.1	3729.8	3584.5	3575.8
67.5°	3898.5	3910.1	4038.0	4331.6	4651.4	4805.5	4447.9	4008.9	3726.9	3549.6	3543.8
69°	3779.3	3788.0	3921.7	4229.9	4631.0	4854.9	4381.0	3886.8	3596.1	3424.6	3430.4
70°	3607.7	3642.6	3744.4	4058.3	4523.5	4811.3	4258.9	3750.2	3447.8	3311.2	3288.0
72.5°	2828.6	2851.9	3020.5	3410.1	4038.0	4366.5	3741.5	3174.6	2866.4	2724.0	2758.9
75°	1601.8	1596.0	1811.1	2369.3	3113.5	3497.3	2944.9	2285.0	1837.3	1665.8	1689.0
77.5°	610.5	636.7	782.0	1215.2	1956.5	2389.7	1953.6	1221.0	854.7	665.7	633.8
80°	197.7	209.3	276.2	441.9	834.3	1348.9	912.8	471.0	296.5	223.8	209.3
82.5°	78.5	87.2	104.7	148.3	282.0	508.7	308.2	171.5	127.9	104.7	95.9
85°	43.6	40.7	55.2	66.9	95.9	145.4	104.7	81.4	69.8	49.4	46.5
87.5°	14.5	14.5	23.3	23.3	26.2	23.3	26.2	29.1	29.1	17.4	14.5
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)