

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: P397535

Luminaire Tested: **ARCH-S-PA1-100-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-100-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10071 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

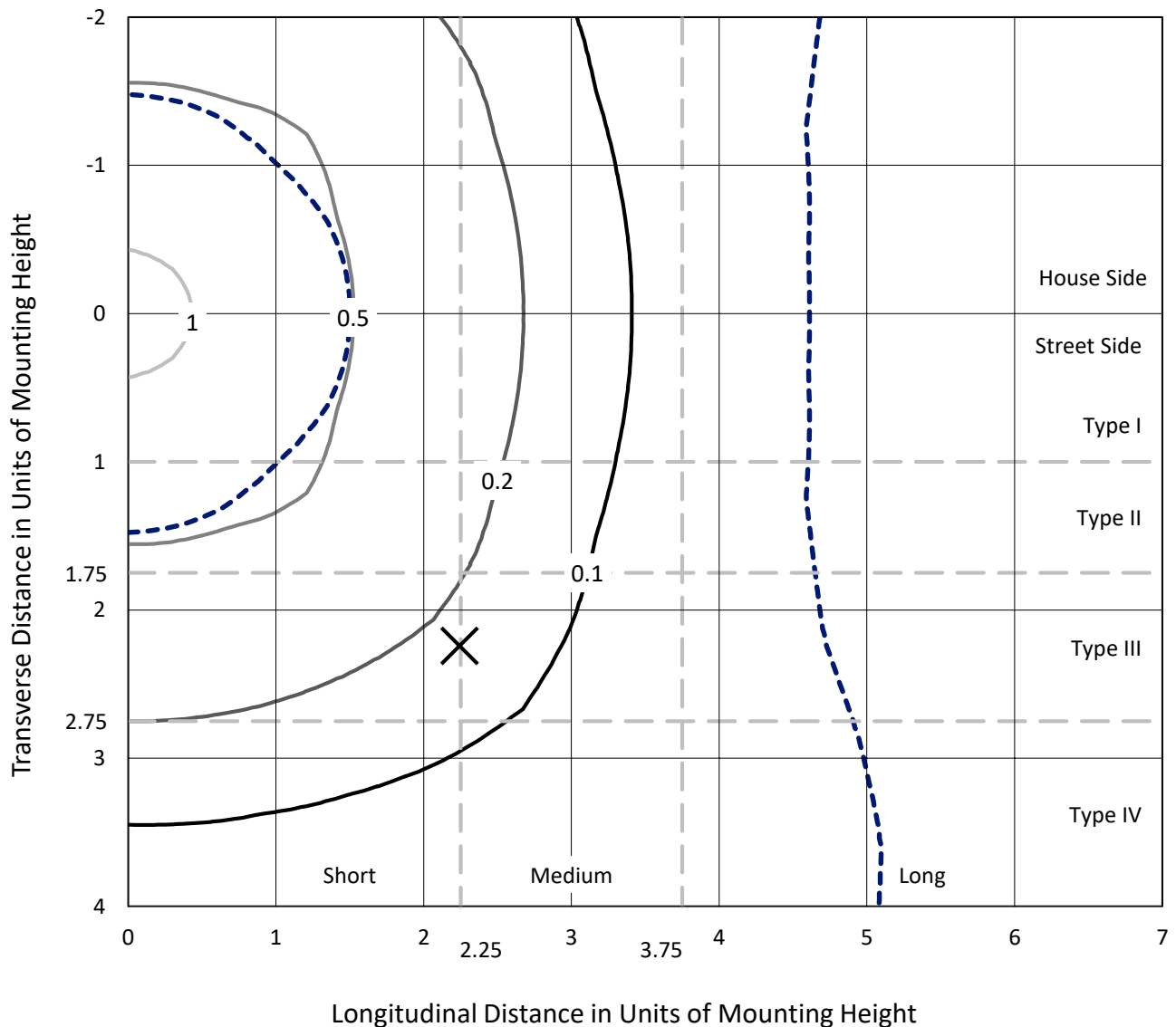
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

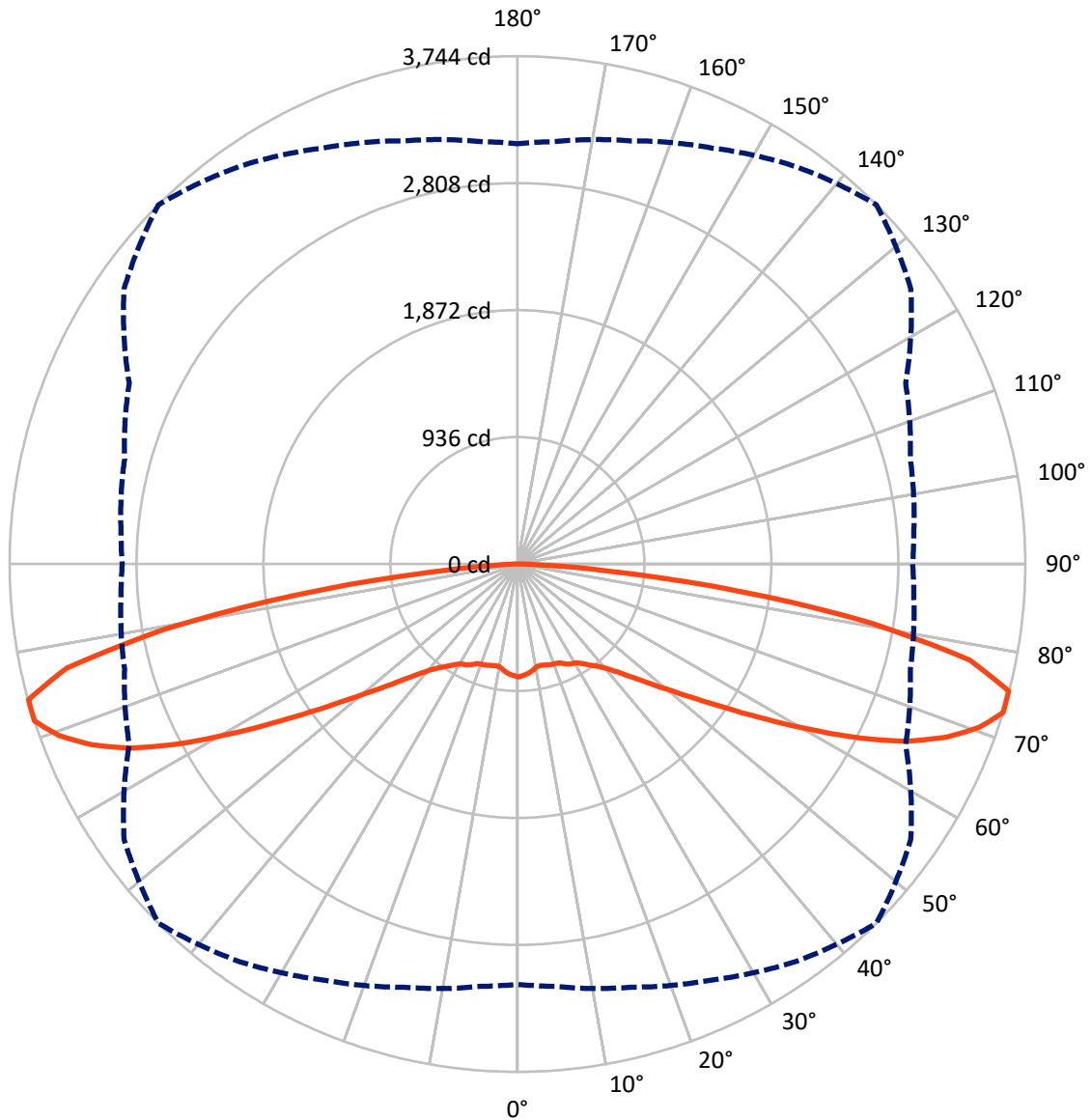
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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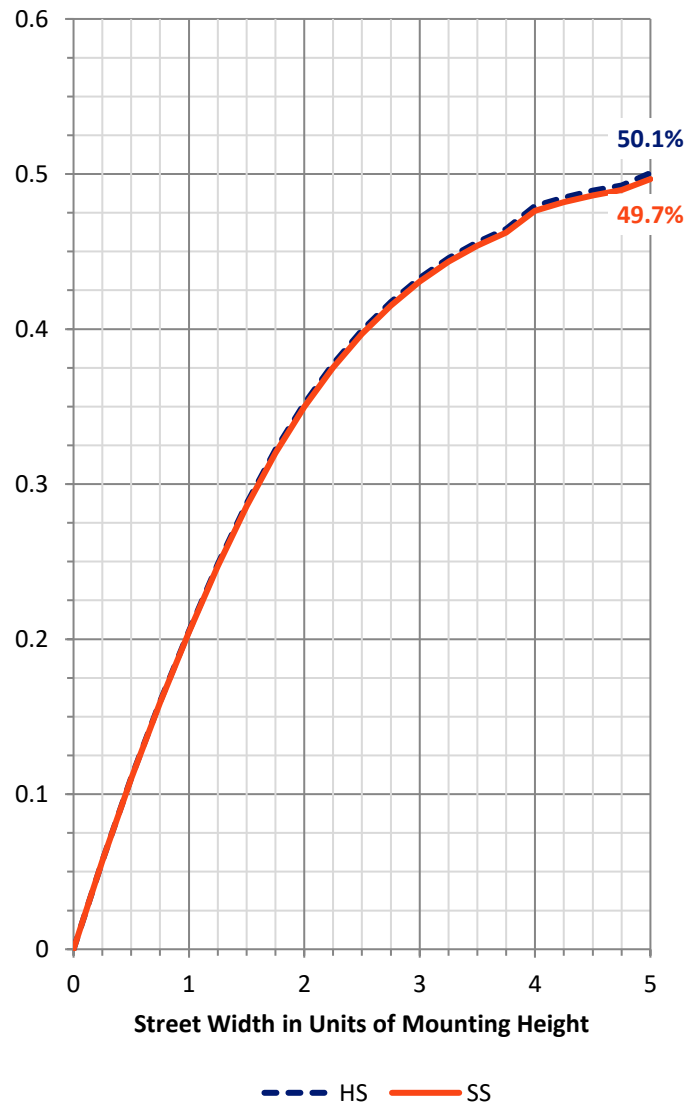
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5035.5	0.0	5035.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5035.5	0.0	5035.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10071.0	0.0	10071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	0.8
10°-20°	221.8	2.2
20°-30°	376.9	3.7
30°-40°	574.9	5.7
40°-50°	946.6	9.4
50°-60°	1653.1	16.4
60°-70°	2771.5	27.5
70°-80°	2966.0	29.5
80°-90°	483.7	4.8
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°	10071.0	100.0
0°-180°	10071.0	100.0

Coefficient of Utilization



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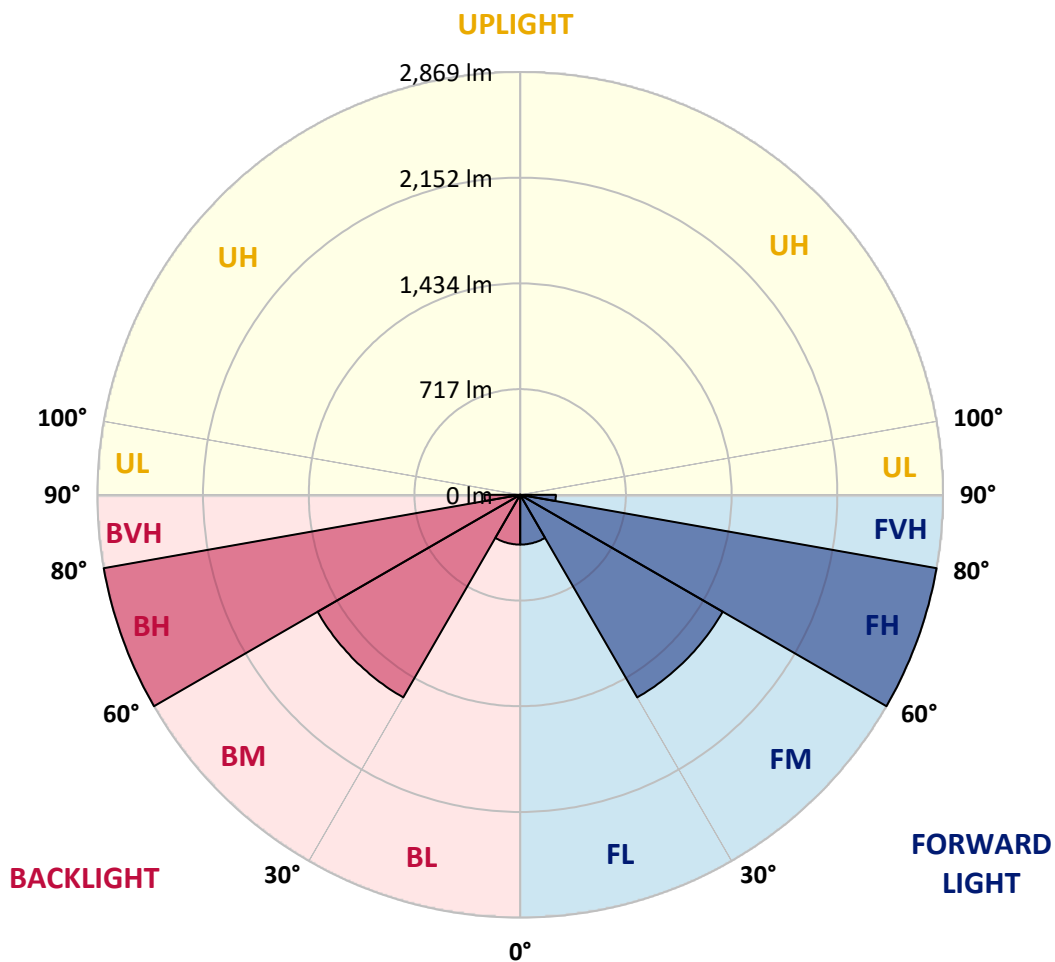
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.6	3.4			
FM	(30°-60°)	1587.3	15.8			
FH	(60°-80°)	2868.7	28.5			G2/5000
FVH	(80°-90°)	241.9	2.4			G3/500
BL	(0°-30°)	337.6	3.4	B1/500		
BM	(30°-60°)	1587.3	15.8	B2/2500		
BH	(60°-80°)	2868.7	28.5	B4/5000		G2/5000
BVH	(80°-90°)	241.9	2.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	828.2	828.2	828.2	827.0	824.4	823.1	820.5	821.8	821.8	821.8	821.8
5°	818.0	818.0	816.7	815.4	812.8	811.5	809.0	811.5	811.5	811.5	811.5
7.5°	798.7	799.9	799.9	798.7	794.8	793.5	789.7	790.9	790.9	792.2	790.9
10°	788.4	788.4	787.1	780.7	774.2	771.7	770.4	774.2	778.1	781.9	781.9
12.5°	788.4	788.4	785.8	775.5	766.5	766.5	766.5	771.7	779.4	787.1	788.4
15°	792.2	792.2	787.1	775.5	770.4	771.7	771.7	776.8	785.8	796.1	797.4
17.5°	794.8	794.8	788.4	776.8	776.8	780.7	778.1	781.9	790.9	802.5	803.8
20°	798.7	798.7	789.7	780.7	780.7	784.5	784.5	788.4	796.1	807.7	809.0
22.5°	806.4	805.1	796.1	788.4	788.4	790.9	793.5	798.7	805.1	815.4	818.0
25°	815.4	815.4	807.7	806.4	809.0	815.4	814.1	812.8	815.4	824.4	828.2
27.5°	820.5	820.5	815.4	819.2	829.5	834.7	828.2	823.1	823.1	832.1	833.4
30°	837.2	836.0	830.8	833.4	842.4	845.0	841.1	834.7	838.5	848.8	850.1
32.5°	865.5	865.5	857.8	857.8	864.3	874.5	861.7	857.8	863.0	874.5	875.8
35°	909.3	909.3	899.0	893.8	899.0	913.1	893.8	892.5	901.5	914.4	915.7
37.5°	964.6	964.6	958.1	945.3	946.6	955.6	938.8	937.6	954.3	968.4	968.4
40°	1034.0	1037.9	1031.4	1016.0	1010.9	1012.2	999.3	1000.6	1019.9	1036.6	1036.6
42.5°	1120.2	1122.8	1112.5	1100.9	1094.5	1090.6	1077.7	1080.3	1103.5	1125.3	1125.3
45°	1224.4	1225.6	1215.4	1201.2	1193.5	1190.9	1178.1	1184.5	1210.2	1233.4	1232.1
47.5°	1341.4	1342.7	1332.4	1318.2	1313.1	1317.0	1304.1	1304.1	1327.2	1346.5	1344.0
50°	1473.9	1476.4	1464.9	1458.4	1454.6	1464.9	1449.4	1435.3	1450.7	1470.0	1467.4
52.5°	1620.5	1626.9	1619.2	1621.8	1635.9	1648.8	1623.0	1592.2	1599.9	1612.8	1608.9
55°	1798.0	1805.7	1808.2	1817.2	1854.5	1876.4	1834.0	1782.5	1778.7	1779.9	1773.5
57.5°	1997.3	2002.4	2019.2	2039.7	2116.9	2151.6	2084.8	1996.0	1967.7	1951.0	1947.1
60°	2197.9	2206.9	2248.1	2290.5	2408.8	2471.9	2369.0	2219.8	2159.3	2128.5	2122.0
62.5°	2399.8	2417.8	2484.7	2556.7	2729.1	2823.0	2664.8	2448.7	2361.3	2322.7	2312.4
65°	2633.9	2655.8	2736.8	2828.1	3019.7	3152.2	2960.6	2685.4	2591.5	2540.0	2527.2
67.5°	2907.8	2931.0	2996.6	3098.2	3279.5	3409.4	3239.7	2927.1	2805.0	2739.4	2729.1
70°	3132.9	3153.5	3224.2	3327.1	3462.2	3610.1	3448.0	3120.1	3009.5	2963.2	2956.7
72.5°	3098.2	3125.2	3229.4	3383.7	3576.6	3743.8	3539.3	3157.4	2997.9	2933.6	2913.0
75°	2705.9	2735.5	2859.0	3138.1	3490.4	3740.0	3406.9	2909.1	2721.4	2667.4	2657.1
77.5°	1791.5	1819.8	2028.2	2468.0	3048.0	3408.1	3006.9	2437.1	2134.9	2005.0	1997.3
80°	724.1	760.1	959.4	1426.3	2160.6	2649.3	2230.1	1560.0	1052.0	848.8	807.7
82.5°	168.5	200.6	291.9	526.0	1106.0	1650.1	1202.5	582.6	338.2	240.5	216.1
85°	70.7	72.0	124.8	171.0	346.0	666.2	393.5	212.2	172.3	126.0	123.5
87.5°	27.0	28.3	60.4	72.0	110.6	126.0	133.8	109.3	101.6	63.0	60.4
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)