

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: P398102

Luminaire Tested: **ARCH-S-PA1-90-722-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398102
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-PA1-90-722-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8761 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

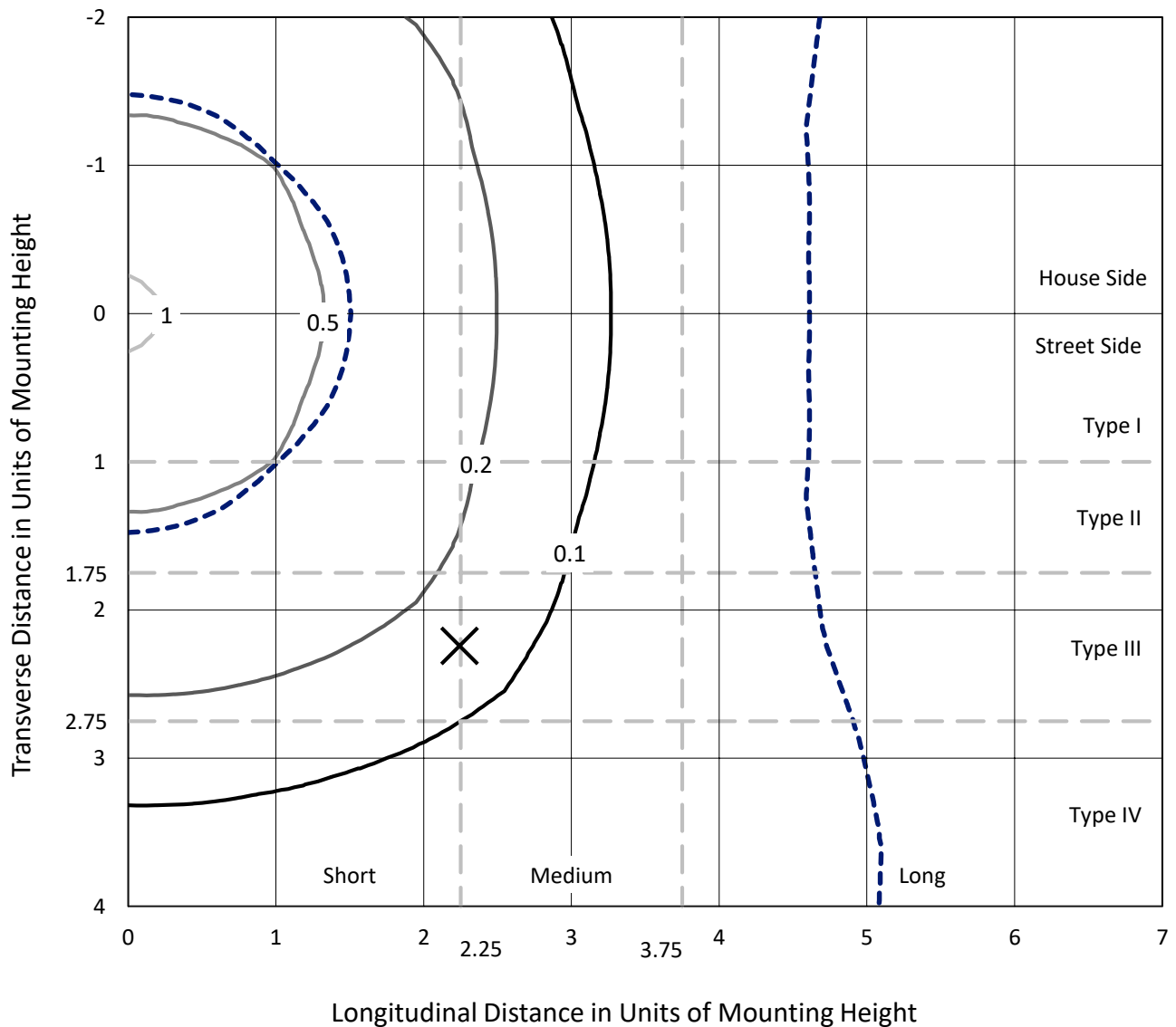
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

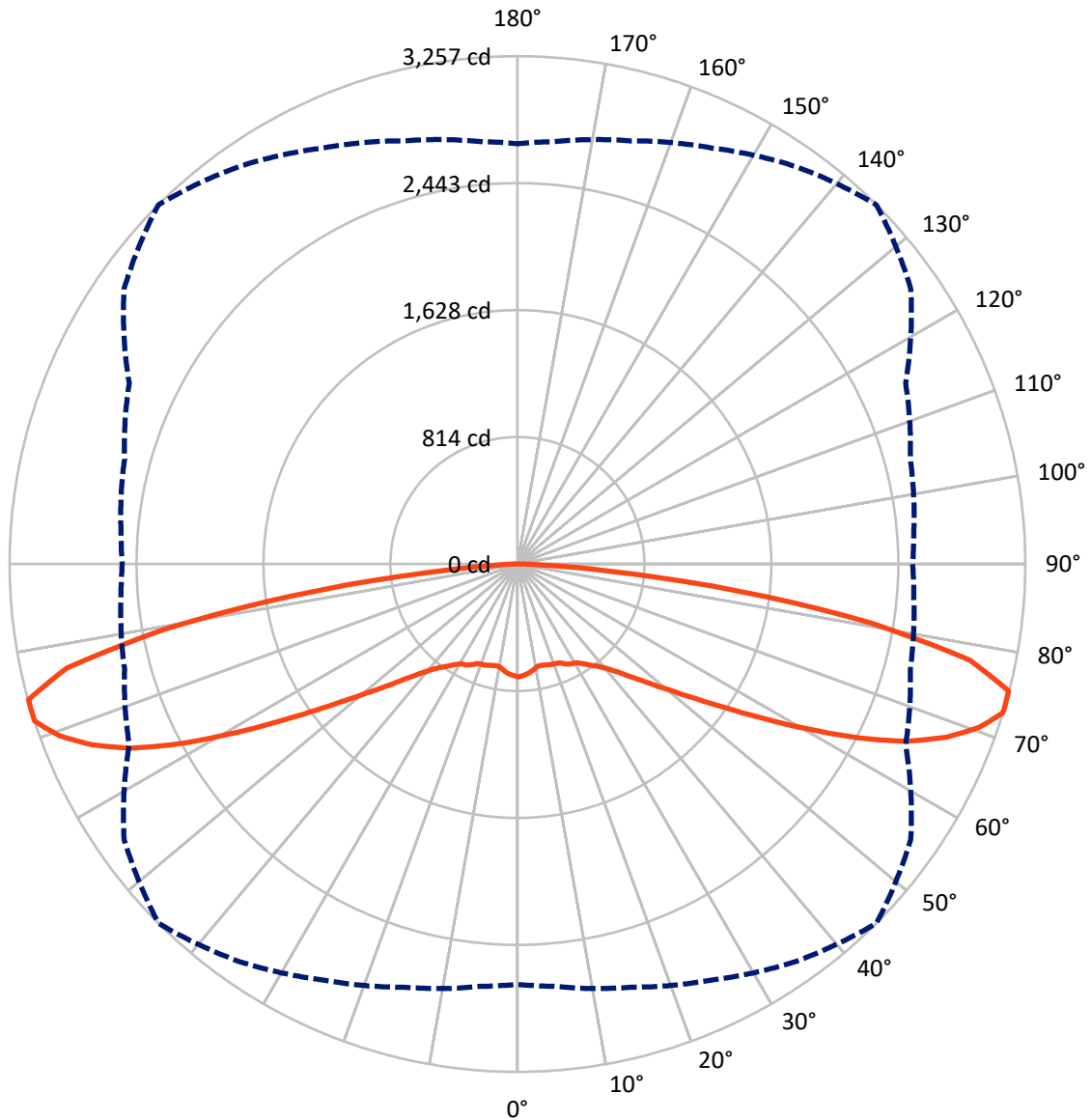


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - Non-Cutoff

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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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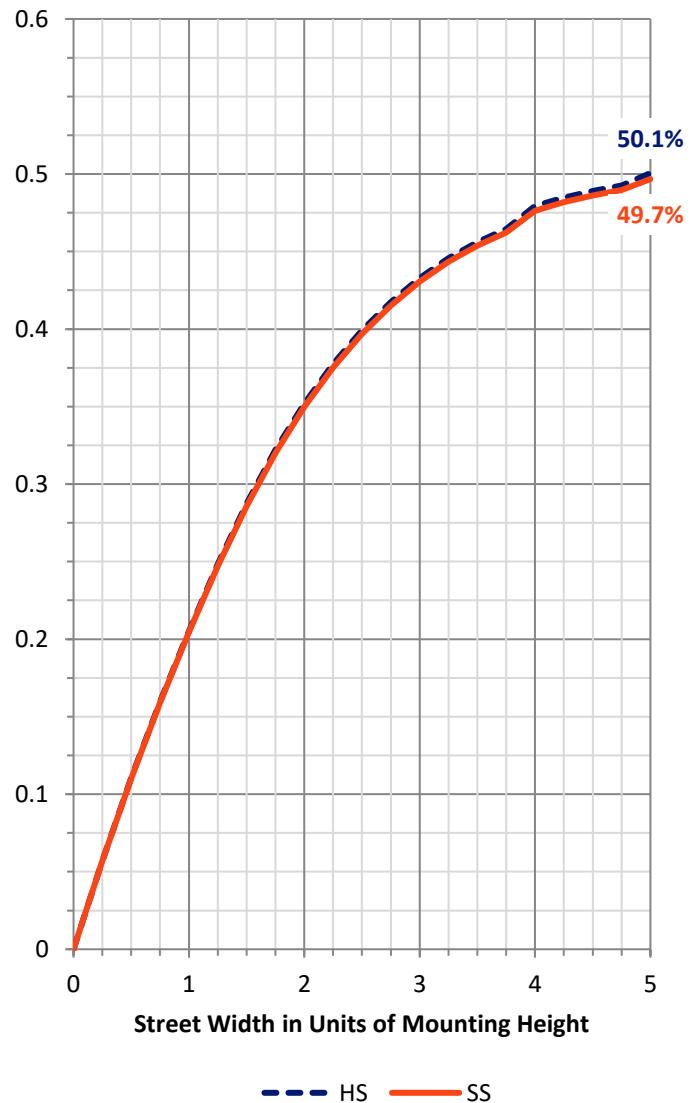
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4380.5	0.0	4380.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4380.5	0.0	4380.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8761.0	0.0	8761.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	0.8
10°-20°	193.0	2.2
20°-30°	327.9	3.7
30°-40°	500.1	5.7
40°-50°	823.5	9.4
50°-60°	1438.1	16.4
60°-70°	2410.9	27.5
70°-80°	2580.2	29.5
80°-90°	420.8	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°	8761.0	100.0
0°-180°	8761.0	100.0



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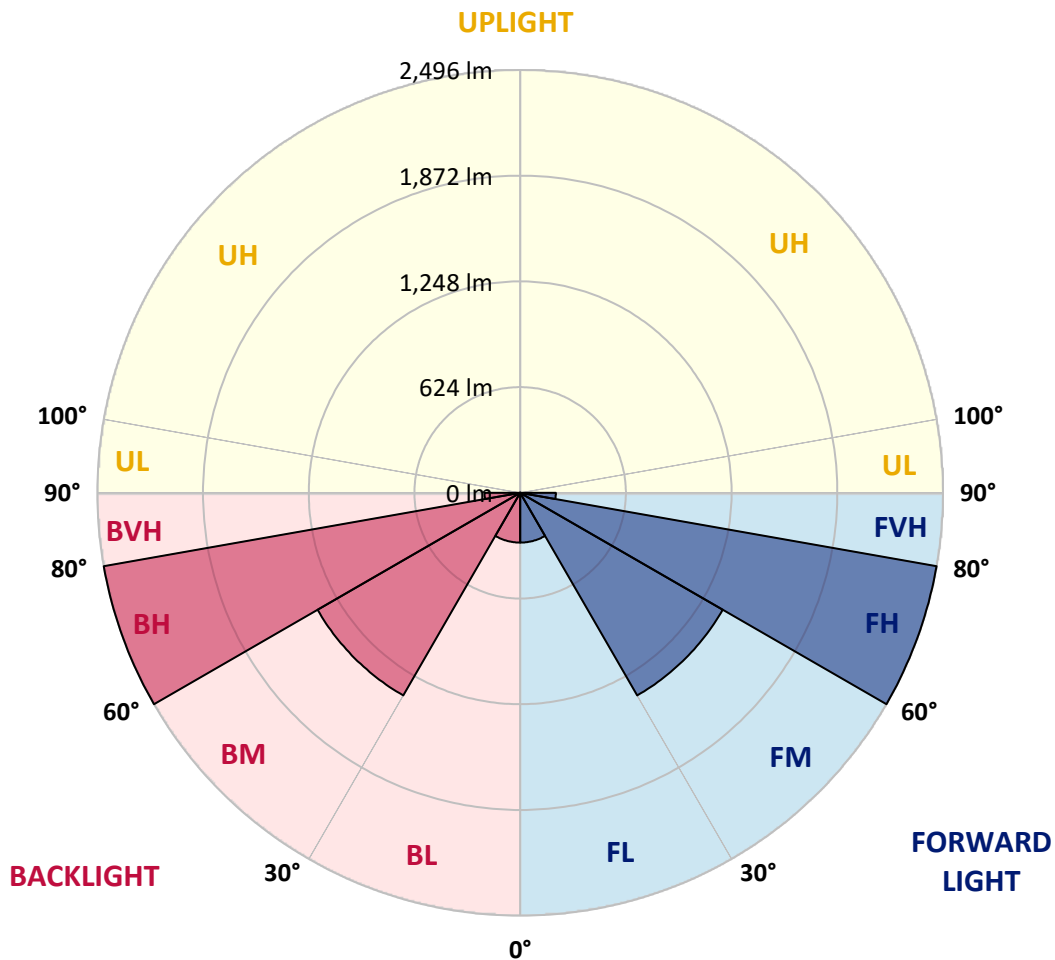
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.7	3.4			
FM	(30°-60°)	1380.8	15.8			
FH	(60°-80°)	2495.6	28.5			G2/5000
FVH	(80°-90°)	210.4	2.4			G2/225
BL	(0°-30°)	293.7	3.4	B1/500		
BM	(30°-60°)	1380.8	15.8	B2/2500		
BH	(60°-80°)	2495.6	28.5	B3/2500		G2/5000
BVH	(80°-90°)	210.4	2.4			G2/225
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°	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0	725.0
2.5°	720.5	720.5	720.5	719.4	717.2	716.0	713.8	714.9	714.9	714.9	714.9
5°	711.6	711.6	710.4	709.3	707.1	706.0	703.7	706.0	706.0	706.0	706.0
7.5°	694.8	695.9	695.9	694.8	691.4	690.3	686.9	688.1	688.1	689.2	688.1
10°	685.8	685.8	684.7	679.1	673.5	671.3	670.2	673.5	676.9	680.2	680.2
12.5°	685.8	685.8	683.6	674.6	666.8	666.8	666.8	671.3	678.0	684.7	685.8
15°	689.2	689.2	684.7	674.6	670.2	671.3	671.3	675.8	683.6	692.5	693.7
17.5°	691.4	691.4	685.8	675.8	675.8	679.1	676.9	680.2	688.1	698.1	699.3
20°	694.8	694.8	686.9	679.1	679.1	682.5	682.5	685.8	692.5	702.6	703.7
22.5°	701.5	700.4	692.5	685.8	685.8	688.1	690.3	694.8	700.4	709.3	711.6
25°	709.3	709.3	702.6	701.5	703.7	709.3	708.2	707.1	709.3	717.2	720.5
27.5°	713.8	713.8	709.3	712.7	721.6	726.1	720.5	716.0	716.0	723.9	725.0
30°	728.3	727.2	722.7	725.0	732.8	735.1	731.7	726.1	729.5	738.4	739.5
32.5°	753.0	753.0	746.2	746.2	751.8	760.8	749.6	746.2	750.7	760.8	761.9
35°	791.0	791.0	782.0	777.6	782.0	794.3	777.6	776.4	784.3	795.5	796.6
37.5°	839.1	839.1	833.5	822.3	823.4	831.3	816.7	815.6	830.1	842.5	842.5
40°	899.5	902.9	897.3	883.9	879.4	880.5	869.3	870.4	887.2	901.8	901.8
42.5°	974.5	976.7	967.8	957.7	952.1	948.7	937.6	939.8	959.9	979.0	979.0
45°	1065.1	1066.2	1057.3	1045.0	1038.2	1036.0	1024.8	1030.4	1052.8	1072.9	1071.8
47.5°	1166.9	1168.0	1159.1	1146.8	1142.3	1145.7	1134.5	1134.5	1154.6	1171.4	1169.1
50°	1282.1	1284.4	1274.3	1268.7	1265.4	1274.3	1260.9	1248.6	1262.0	1278.8	1276.6
52.5°	1409.7	1415.3	1408.6	1410.8	1423.1	1434.3	1411.9	1385.1	1391.8	1403.0	1399.6
55°	1564.1	1570.8	1573.0	1580.9	1613.3	1632.3	1595.4	1550.7	1547.3	1548.4	1542.8
57.5°	1737.5	1742.0	1756.5	1774.4	1841.5	1871.8	1813.6	1736.4	1711.8	1697.2	1693.9
60°	1912.0	1919.9	1955.7	1992.6	2095.5	2150.3	2060.8	1931.0	1878.5	1851.6	1846.0
62.5°	2087.7	2103.3	2161.5	2224.2	2374.1	2455.8	2318.2	2130.2	2054.1	2020.6	2011.6
65°	2291.3	2310.3	2380.8	2460.2	2626.9	2742.2	2575.5	2336.1	2254.4	2209.6	2198.4
67.5°	2529.6	2549.7	2606.8	2695.2	2852.9	2965.9	2818.3	2546.4	2440.1	2383.0	2374.1
70°	2725.4	2743.3	2804.8	2894.3	3011.8	3140.5	2999.5	2714.2	2618.0	2577.7	2572.1
72.5°	2695.2	2718.7	2809.3	2943.6	3111.4	3256.8	3078.9	2746.7	2607.9	2552.0	2534.1
75°	2354.0	2379.7	2487.1	2729.9	3036.4	3253.5	2963.7	2530.7	2367.4	2320.4	2311.4
77.5°	1558.5	1583.1	1764.3	2147.0	2651.6	2964.8	2615.8	2120.1	1857.2	1744.2	1737.5
80°	629.9	661.2	834.6	1240.7	1879.6	2304.7	1940.0	1357.1	915.2	738.4	702.6
82.5°	146.6	174.5	254.0	457.6	962.2	1435.4	1046.1	506.8	294.2	209.2	188.0
85°	61.5	62.7	108.5	148.8	301.0	579.5	342.4	184.6	149.9	109.6	107.4
87.5°	23.5	24.6	52.6	62.7	96.2	109.6	116.4	95.1	88.4	54.8	52.6
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)