

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: P398165

Luminaire Tested: **ARCH-S-PA1-90-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398165
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-PA1-90-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 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: 9471 lumens
Efficiency: N/A
Efficacy: 100.8 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

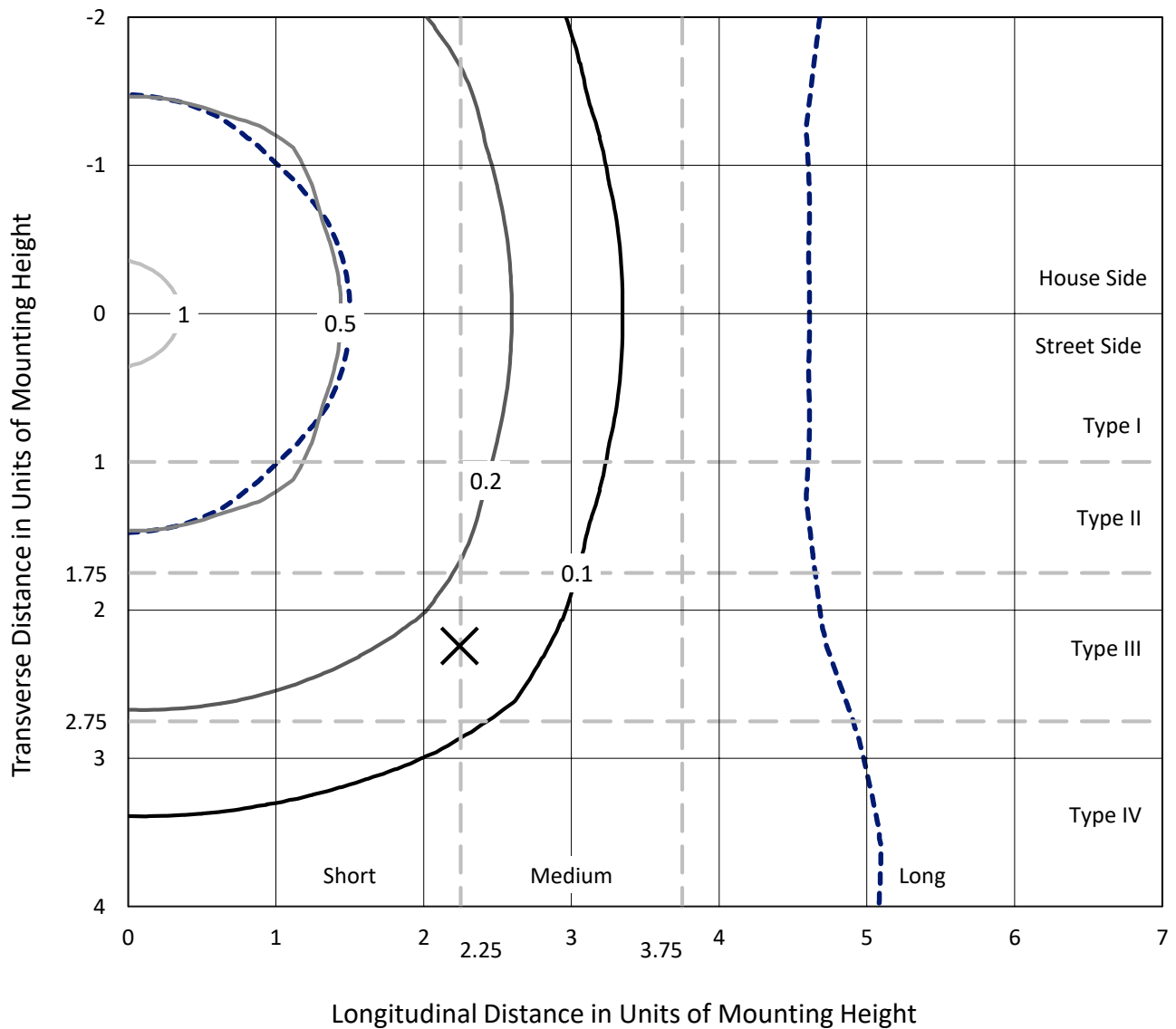
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

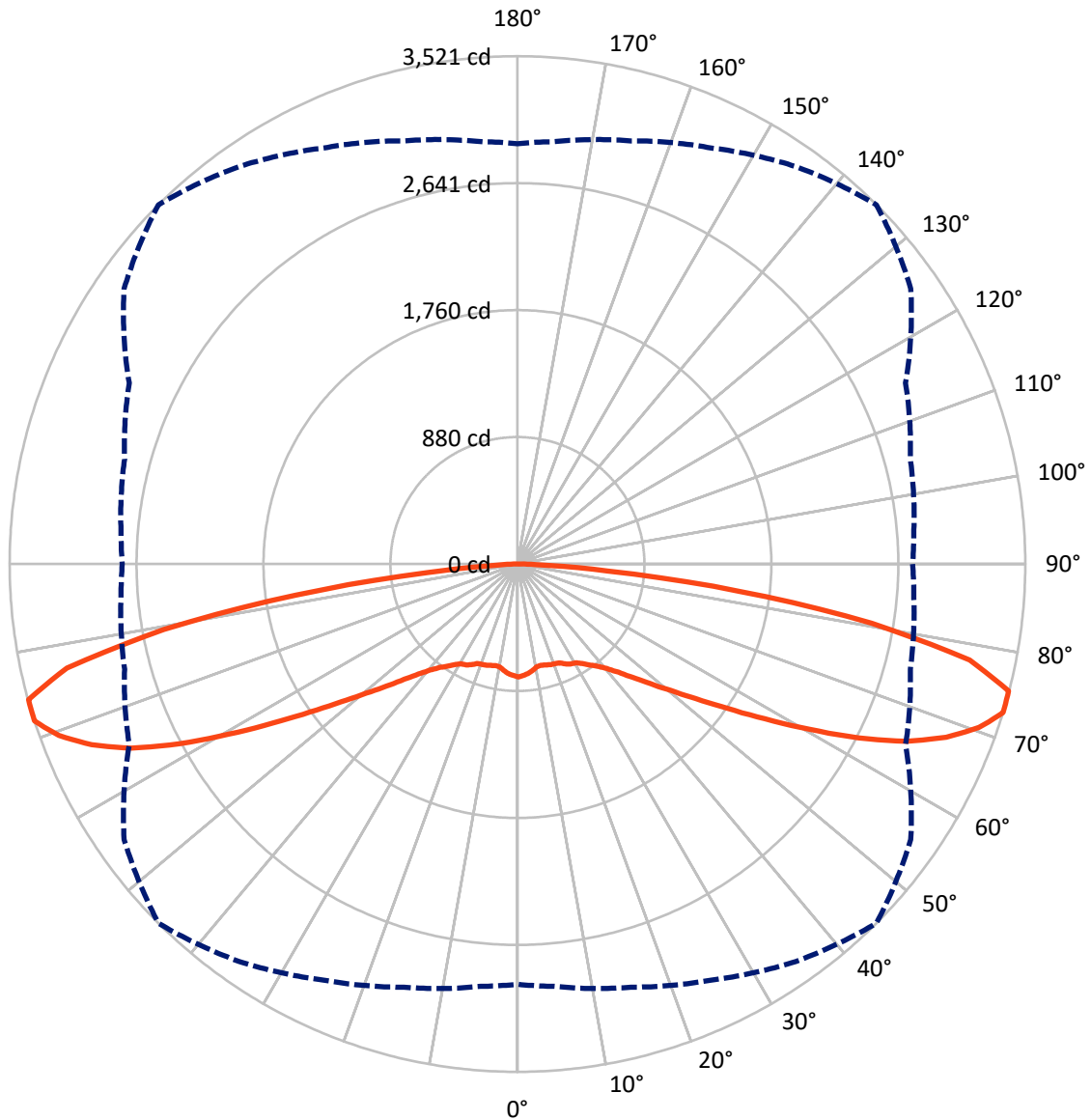


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - Non-Cutoff

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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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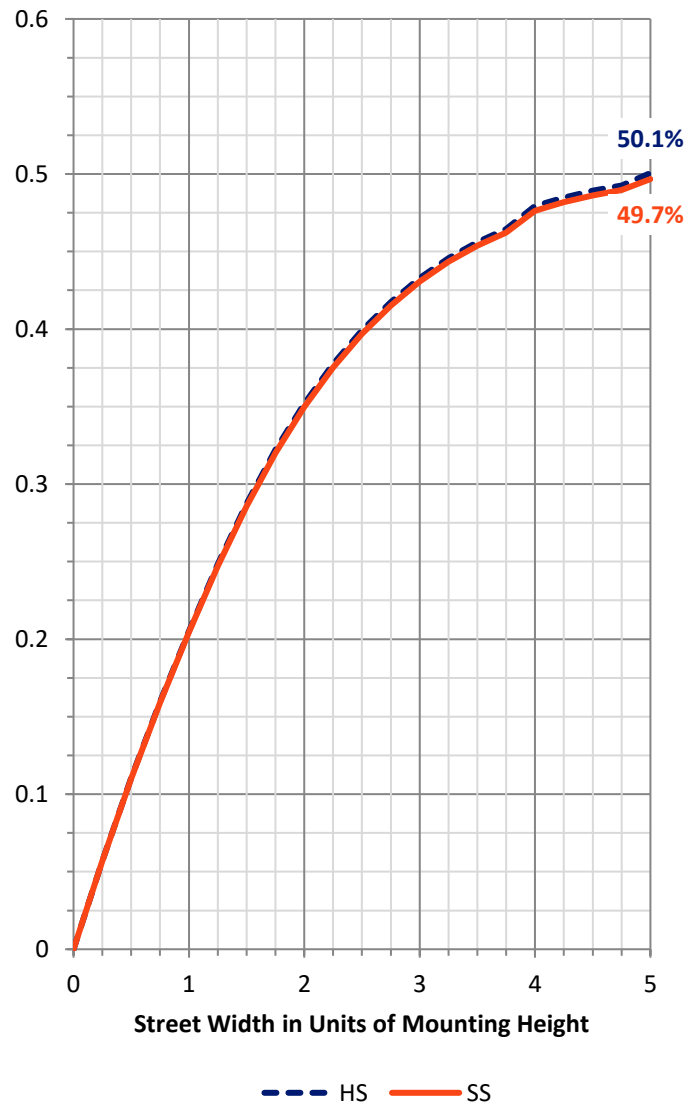
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4735.5	0.0	4735.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4735.5	0.0	4735.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9471.0	0.0	9471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	0.8
10°-20°	208.6	2.2
20°-30°	354.5	3.7
30°-40°	540.6	5.7
40°-50°	890.2	9.4
50°-60°	1554.6	16.4
60°-70°	2606.3	27.5
70°-80°	2789.3	29.5
80°-90°	454.9	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°	9471.0	100.0
0°-180°	9471.0	100.0

Coefficient of Utilization



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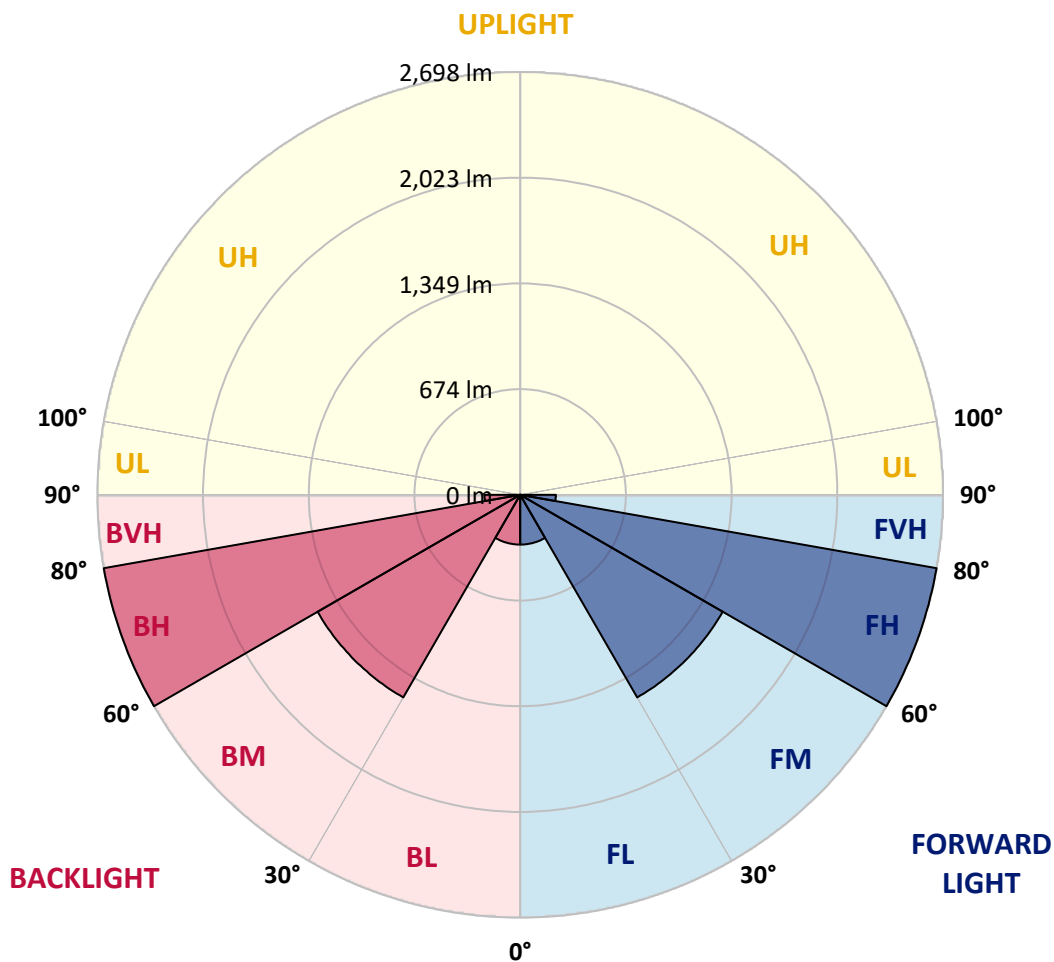
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	317.5	3.4			
FM	(30°-60°)	1492.7	15.8			
FH	(60°-80°)	2697.8	28.5			G2/5000
FVH	(80°-90°)	227.5	2.4			G3/500
BL	(0°-30°)	317.5	3.4	B1/500		
BM	(30°-60°)	1492.7	15.8	B2/2500		
BH	(60°-80°)	2697.8	28.5	B4/5000		G2/5000
BVH	(80°-90°)	227.5	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°	783.7	783.7	783.7	783.7	783.7	783.7	783.7	783.7	783.7	783.7	783.7
2.5°	778.9	778.9	778.9	777.7	775.3	774.1	771.6	772.9	772.9	772.9	772.9
5°	769.2	769.2	768.0	766.8	764.4	763.2	760.8	763.2	763.2	763.2	763.2
7.5°	751.1	752.3	752.3	751.1	747.5	746.2	742.6	743.8	743.8	745.0	743.8
10°	741.4	741.4	740.2	734.1	728.1	725.7	724.5	728.1	731.7	735.4	735.4
12.5°	741.4	741.4	739.0	729.3	720.8	720.8	720.8	725.7	732.9	740.2	741.4
15°	745.0	745.0	740.2	729.3	724.5	725.7	725.7	730.5	739.0	748.7	749.9
17.5°	747.5	747.5	741.4	730.5	730.5	734.1	731.7	735.4	743.8	754.7	755.9
20°	751.1	751.1	742.6	734.1	734.1	737.8	737.8	741.4	748.7	759.5	760.8
22.5°	758.3	757.1	748.7	741.4	741.4	743.8	746.2	751.1	757.1	766.8	769.2
25°	766.8	766.8	759.5	758.3	760.8	766.8	765.6	764.4	766.8	775.3	778.9
27.5°	771.6	771.6	766.8	770.4	780.1	784.9	778.9	774.1	774.1	782.5	783.7
30°	787.4	786.2	781.3	783.7	792.2	794.6	791.0	784.9	788.6	798.2	799.5
32.5°	814.0	814.0	806.7	806.7	812.8	822.4	810.3	806.7	811.6	822.4	823.6
35°	855.1	855.1	845.4	840.6	845.4	858.7	840.6	839.4	847.8	859.9	861.1
37.5°	907.1	907.1	901.1	889.0	890.2	898.6	882.9	881.7	897.4	910.7	910.7
40°	972.4	976.0	970.0	955.5	950.6	951.9	939.8	941.0	959.1	974.8	974.8
42.5°	1053.4	1055.9	1046.2	1035.3	1029.3	1025.6	1013.5	1016.0	1037.7	1058.3	1058.3
45°	1151.4	1152.6	1142.9	1129.6	1122.4	1120.0	1107.9	1113.9	1138.1	1159.9	1158.7
47.5°	1261.5	1262.7	1253.0	1239.7	1234.9	1238.5	1226.4	1226.4	1248.2	1266.3	1263.9
50°	1386.1	1388.5	1377.6	1371.5	1367.9	1377.6	1363.1	1349.8	1364.3	1382.4	1380.0
52.5°	1523.9	1530.0	1522.7	1525.1	1538.4	1550.5	1526.3	1497.3	1504.6	1516.7	1513.0
55°	1690.8	1698.1	1700.5	1709.0	1744.1	1764.6	1724.7	1676.3	1672.7	1673.9	1667.9
57.5°	1878.3	1883.1	1898.9	1918.2	1990.8	2023.4	1960.5	1877.1	1850.5	1834.8	1831.1
60°	2067.0	2075.4	2114.2	2154.1	2265.3	2324.6	2227.8	2087.5	2030.7	2001.7	1995.6
62.5°	2256.9	2273.8	2336.7	2404.4	2566.5	2654.8	2506.0	2302.8	2220.6	2184.3	2174.6
65°	2477.0	2497.6	2573.7	2659.6	2839.8	2964.4	2784.2	2525.4	2437.1	2388.7	2376.6
67.5°	2734.6	2756.4	2818.1	2913.6	3084.1	3206.3	3046.7	2752.8	2637.9	2576.2	2566.5
70°	2946.3	2965.6	3032.1	3128.9	3255.9	3395.0	3242.6	2934.2	2830.2	2786.6	2780.6
72.5°	2913.6	2939.0	3037.0	3182.1	3363.5	3520.8	3328.5	2969.2	2819.3	2758.8	2739.4
75°	2544.7	2572.5	2688.6	2951.1	3282.5	3517.1	3203.9	2735.8	2559.2	2508.4	2498.8
77.5°	1684.8	1711.4	1907.3	2321.0	2866.4	3205.1	2827.7	2291.9	2007.7	1885.6	1878.3
80°	680.9	714.8	902.3	1341.3	2031.9	2491.5	2097.2	1467.1	989.3	798.2	759.5
82.5°	158.4	188.7	274.5	494.7	1040.1	1551.7	1130.9	547.9	318.1	226.2	203.2
85°	66.5	67.7	117.3	160.9	325.3	626.5	370.1	199.6	162.1	118.5	116.1
87.5°	25.4	26.6	56.8	67.7	104.0	118.5	125.8	102.8	95.5	59.3	56.8
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)