

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: P799343

Luminaire Tested: **ARCH2-110-722-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11499 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 109.5
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

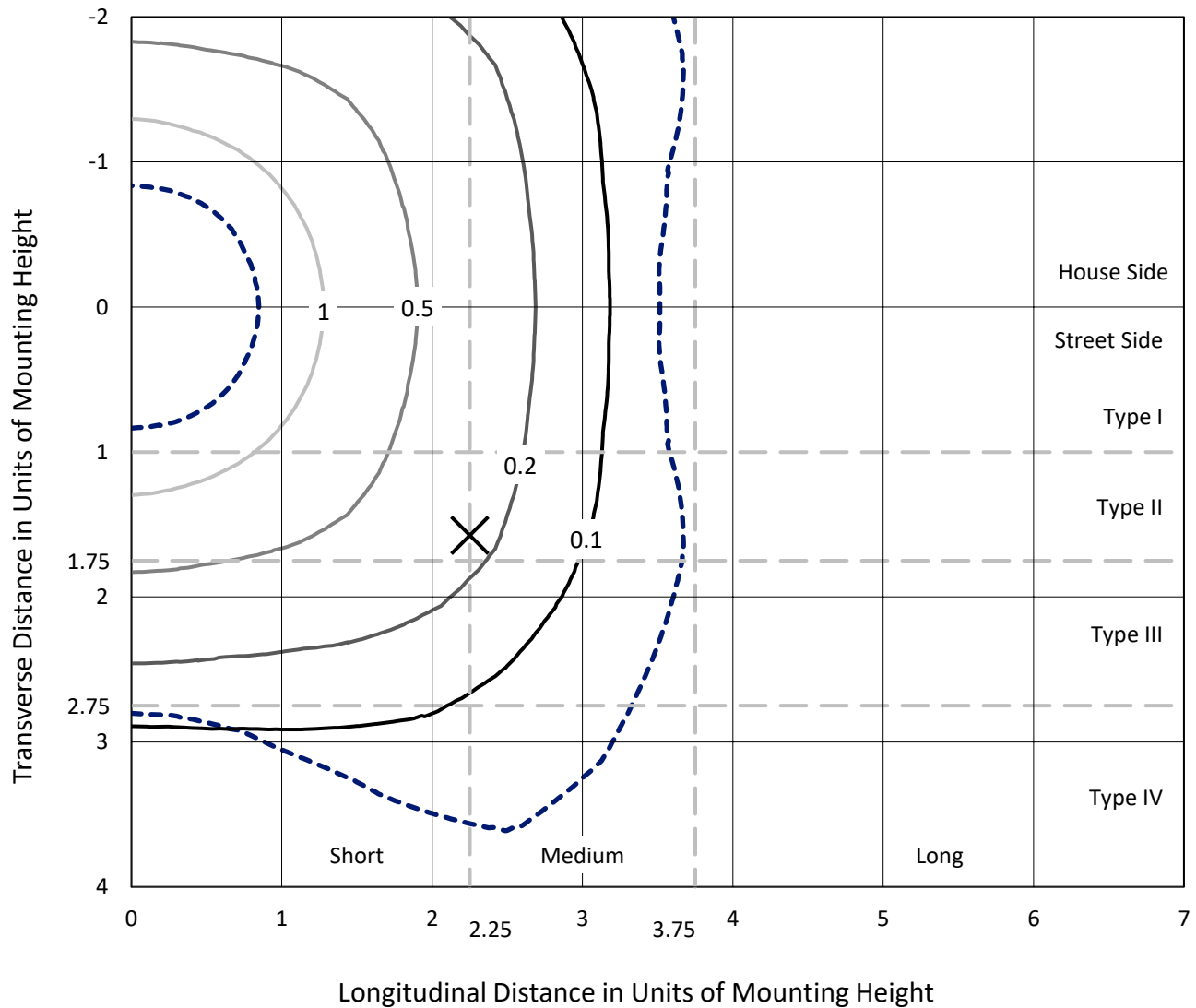


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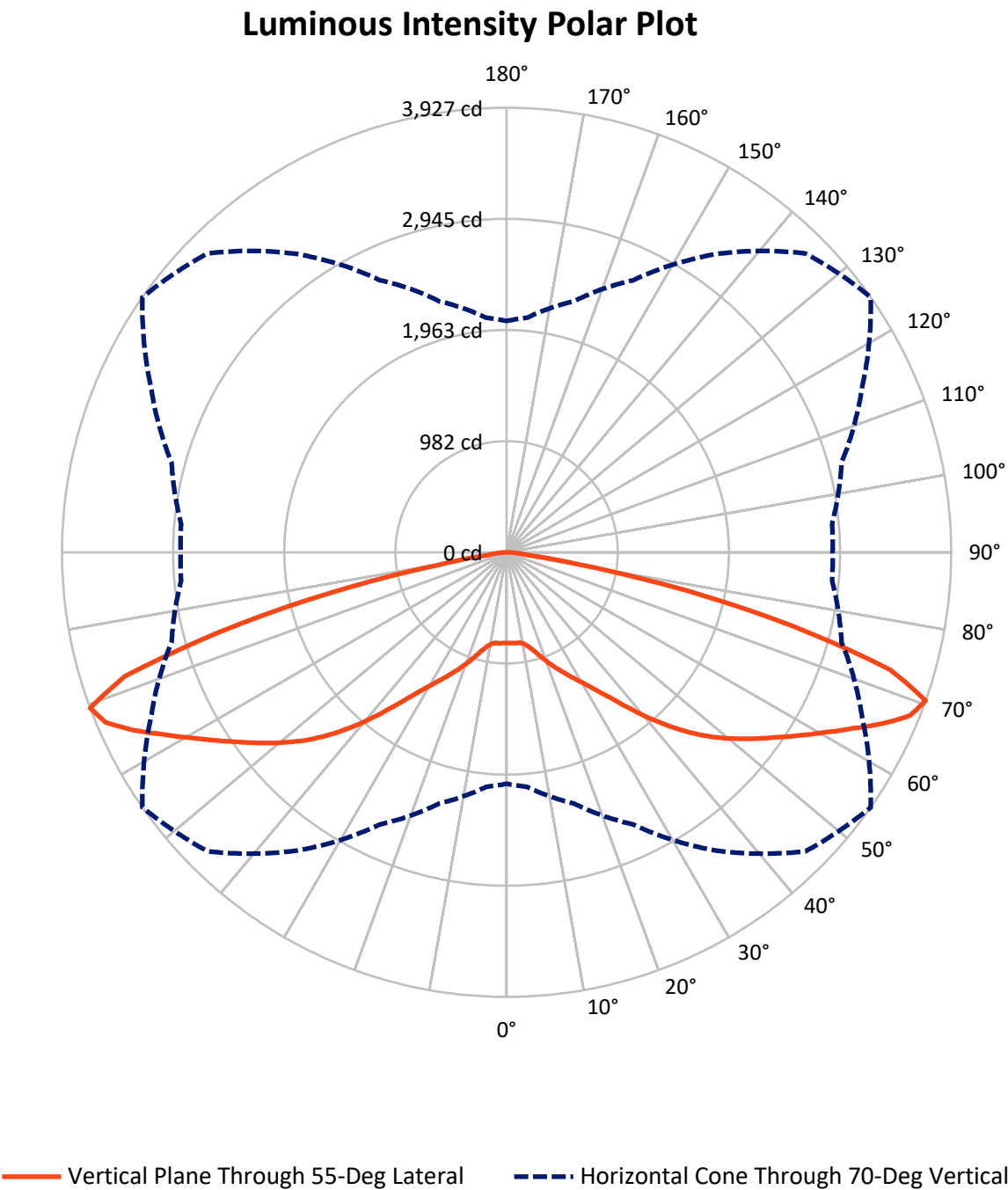
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type V - Medium - N/A

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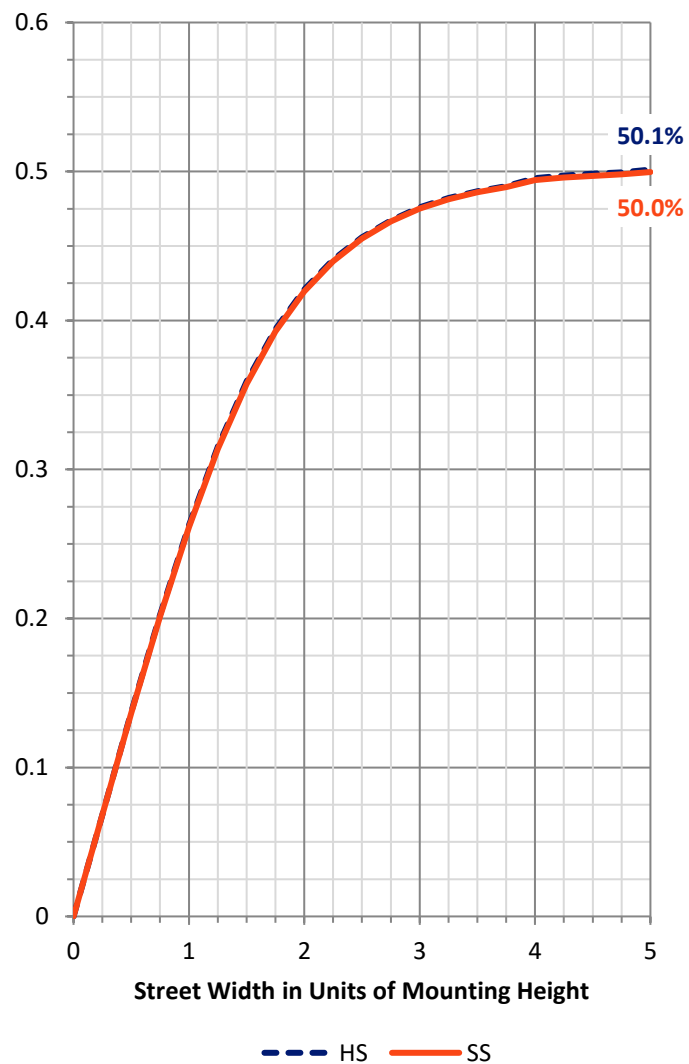
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5749.5	0.0	5749.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5749.5	0.0	5749.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11499.0	0.0	11499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	0.7
10°-20°	263.4	2.3
20°-30°	547.3	4.8
30°-40°	1010.7	8.8
40°-50°	1775.7	15.4
50°-60°	2560.9	22.3
60°-70°	3134.3	27.3
70°-80°	1994.4	17.3
80°-90°	135.0	1.2
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°	11499.0	100.0
0°-180°	11499.0	100.0

Coefficient of Utilization



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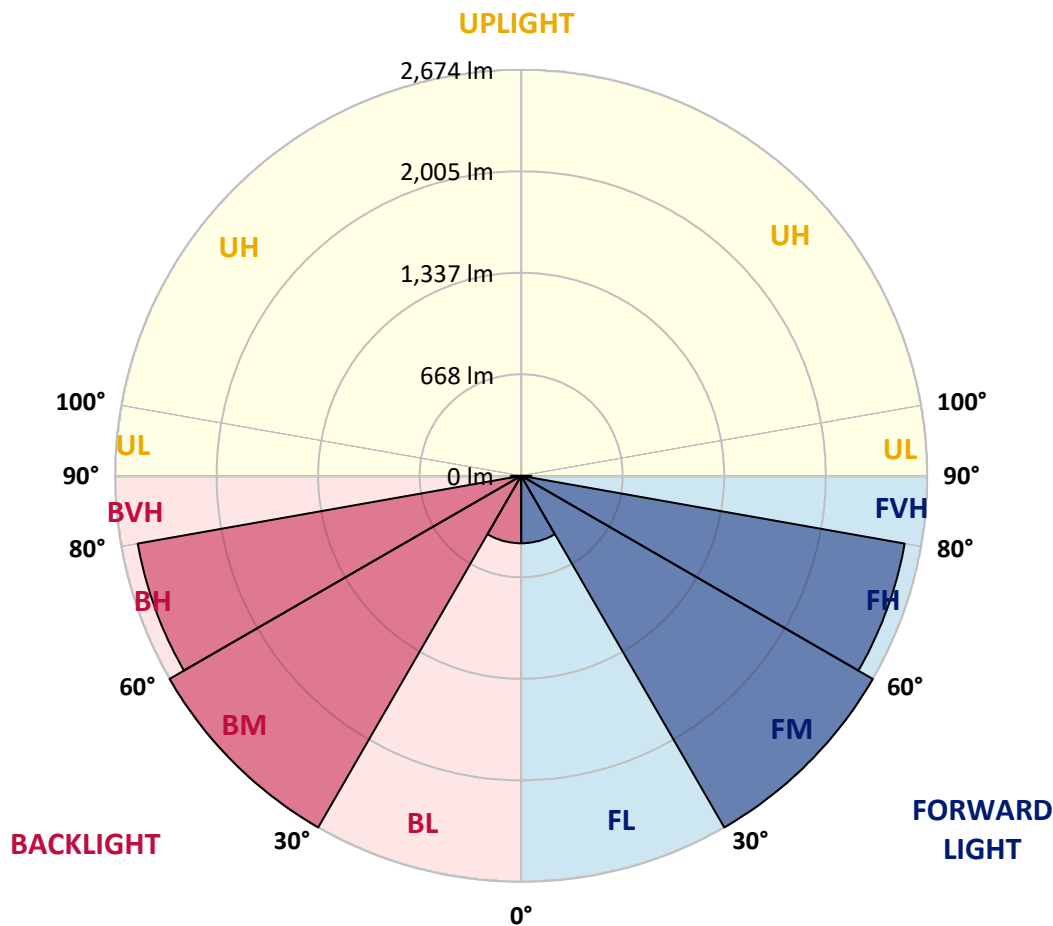
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.0	3.9			
FM	(30°-60°)	2673.7	23.3			
FH	(60°-80°)	2564.4	22.3			G2/5000
FVH	(80°-90°)	67.5	0.6			G1/100
BL	(0°-30°)	444.0	3.9	B1/500		
BM	(30°-60°)	2673.7	23.3	B3/5000		
BH	(60°-80°)	2564.4	22.3	B4/5000		G2/5000
BVH	(80°-90°)	67.5	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6
2.5°	812.3	812.3	810.1	810.1	805.9	803.7	801.6	801.6	799.5	799.5	797.3
5°	816.6	816.6	816.6	814.4	812.3	810.1	805.9	801.6	799.5	797.3	795.2
7.5°	818.7	818.7	816.6	816.6	814.4	812.3	805.9	799.5	797.3	795.2	795.2
10°	835.8	833.7	831.5	827.2	827.2	827.2	818.7	812.3	810.1	810.1	810.1
12.5°	876.4	874.3	870.0	863.6	863.6	865.7	852.9	844.3	844.3	842.2	842.2
15°	936.3	934.1	929.8	919.2	917.0	921.3	902.1	893.5	893.5	893.5	891.4
17.5°	1002.5	998.2	991.8	983.3	983.3	983.3	964.0	953.4	946.9	946.9	944.8
20°	1058.1	1056.0	1056.0	1053.8	1060.2	1060.2	1034.6	1017.5	1002.5	994.0	991.8
22.5°	1107.3	1105.1	1109.4	1117.9	1130.8	1135.0	1105.1	1079.5	1056.0	1038.9	1034.6
25°	1173.5	1171.4	1169.3	1182.1	1203.5	1209.9	1177.8	1145.7	1122.2	1113.7	1109.4
27.5°	1244.1	1246.2	1248.3	1261.2	1278.3	1289.0	1256.9	1227.0	1207.7	1194.9	1190.6
30°	1323.2	1327.4	1333.8	1353.1	1365.9	1370.2	1342.4	1321.0	1303.9	1293.2	1286.8
32.5°	1423.6	1432.2	1440.7	1457.8	1464.2	1460.0	1447.1	1432.2	1419.3	1404.4	1402.2
35°	1573.3	1581.8	1579.7	1586.1	1588.2	1583.9	1577.5	1569.0	1562.6	1543.3	1541.2
37.5°	1761.4	1769.9	1757.1	1750.7	1735.7	1737.8	1735.7	1742.1	1744.3	1725.0	1722.9
40°	1951.6	1960.2	1943.1	1926.0	1911.0	1904.6	1915.3	1936.6	1936.6	1923.8	1923.8
42.5°	2154.7	2161.1	2133.3	2111.9	2092.7	2088.4	2094.8	2120.5	2126.9	2124.7	2124.7
45°	2357.7	2353.5	2317.1	2295.8	2278.6	2268.0	2270.1	2289.3	2302.2	2308.6	2308.6
47.5°	2513.8	2507.4	2477.4	2460.3	2449.7	2434.7	2434.7	2445.4	2451.8	2453.9	2453.9
50°	2637.8	2631.3	2601.4	2599.3	2599.3	2592.9	2586.5	2584.3	2580.0	2582.2	2582.2
52.5°	2744.6	2736.1	2714.7	2719.0	2738.2	2742.5	2734.0	2716.9	2699.8	2693.3	2695.5
55°	2860.1	2847.2	2830.1	2843.0	2881.4	2898.5	2885.7	2851.5	2821.6	2802.4	2802.4
57.5°	2952.0	2937.0	2937.0	2973.4	3043.9	3078.1	3050.3	2986.2	2934.9	2913.5	2915.6
60°	2887.9	2875.0	2926.3	3086.7	3219.2	3276.9	3229.9	3116.6	3033.2	3007.6	3011.8
62.5°	2761.7	2753.2	2817.3	3065.3	3377.4	3497.1	3426.5	3264.1	3140.1	3110.2	3110.2
65°	2575.8	2573.6	2663.4	2969.1	3413.7	3708.7	3648.8	3424.4	3264.1	3223.5	3232.0
67.5°	2383.4	2383.4	2464.6	2804.5	3370.9	3798.5	3845.5	3569.7	3323.9	3223.5	3225.6
70°	2043.5	2079.9	2295.8	2652.7	3214.9	3734.3	3926.7	3467.1	3063.1	2885.7	2879.3
72.5°	1346.7	1393.7	1823.3	2387.7	3061.0	3501.3	3544.1	3046.0	2543.7	2336.4	2325.7
75°	812.3	852.9	1182.1	1864.0	2691.2	2819.5	2631.3	2387.7	1900.3	1737.8	1737.8
77.5°	239.4	267.2	545.1	1182.1	1861.8	1853.3	1622.4	1406.5	1124.4	955.5	968.3
80°	141.1	145.4	177.4	538.7	771.7	812.3	626.3	391.2	391.2	290.7	282.2
82.5°	109.0	109.0	113.3	134.7	186.0	207.3	158.2	134.7	153.9	130.4	124.0
85°	77.0	77.0	77.0	79.1	81.2	83.4	87.6	89.8	98.3	81.2	77.0
87.5°	23.5	25.7	27.8	32.1	38.5	40.6	42.8	38.5	38.5	36.3	34.2
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)