

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: P799215

Luminaire Tested: **ARCH2-100-722-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799215
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: ARCH2-100-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11100 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

Input Watts (W): 103.3
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

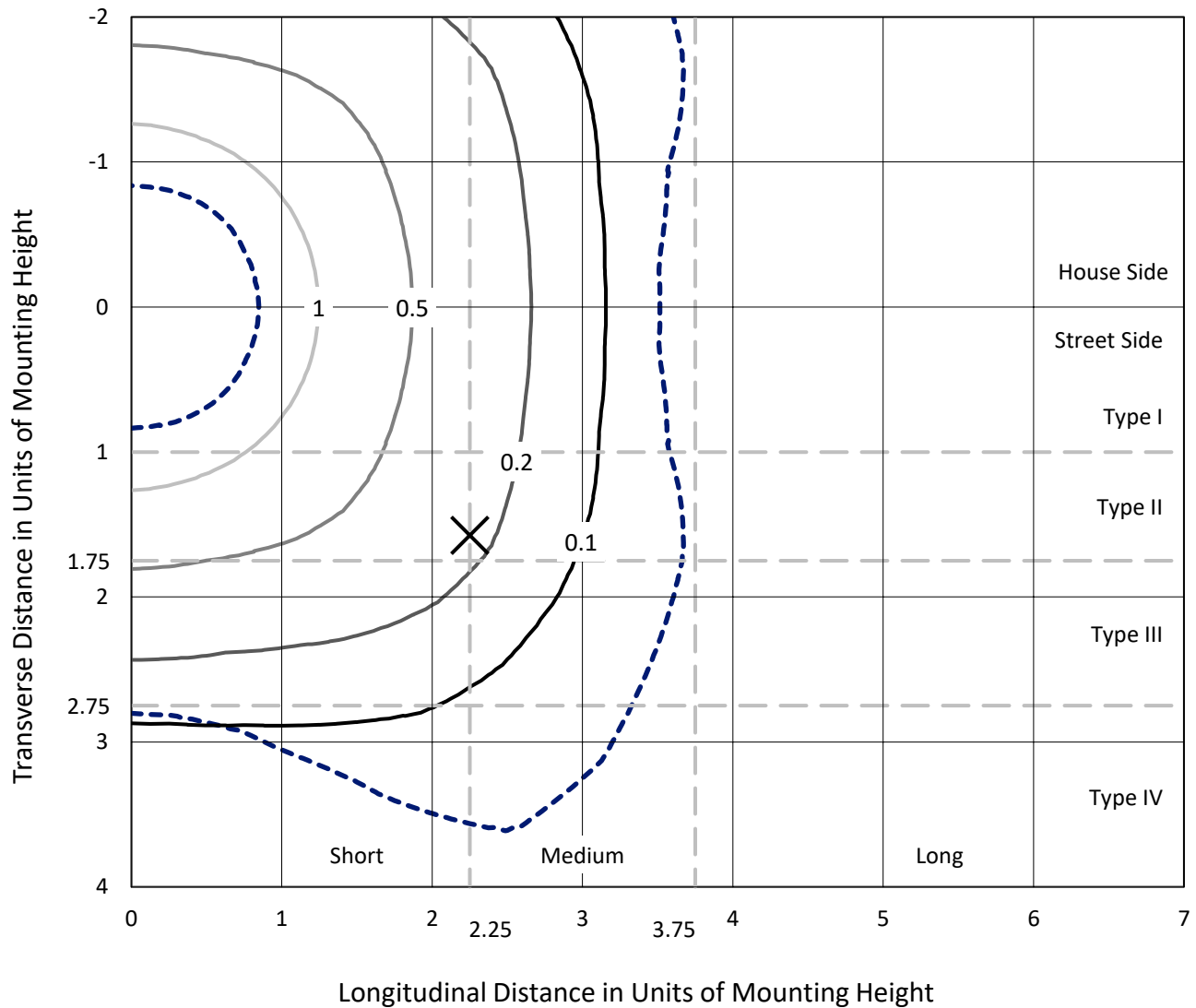


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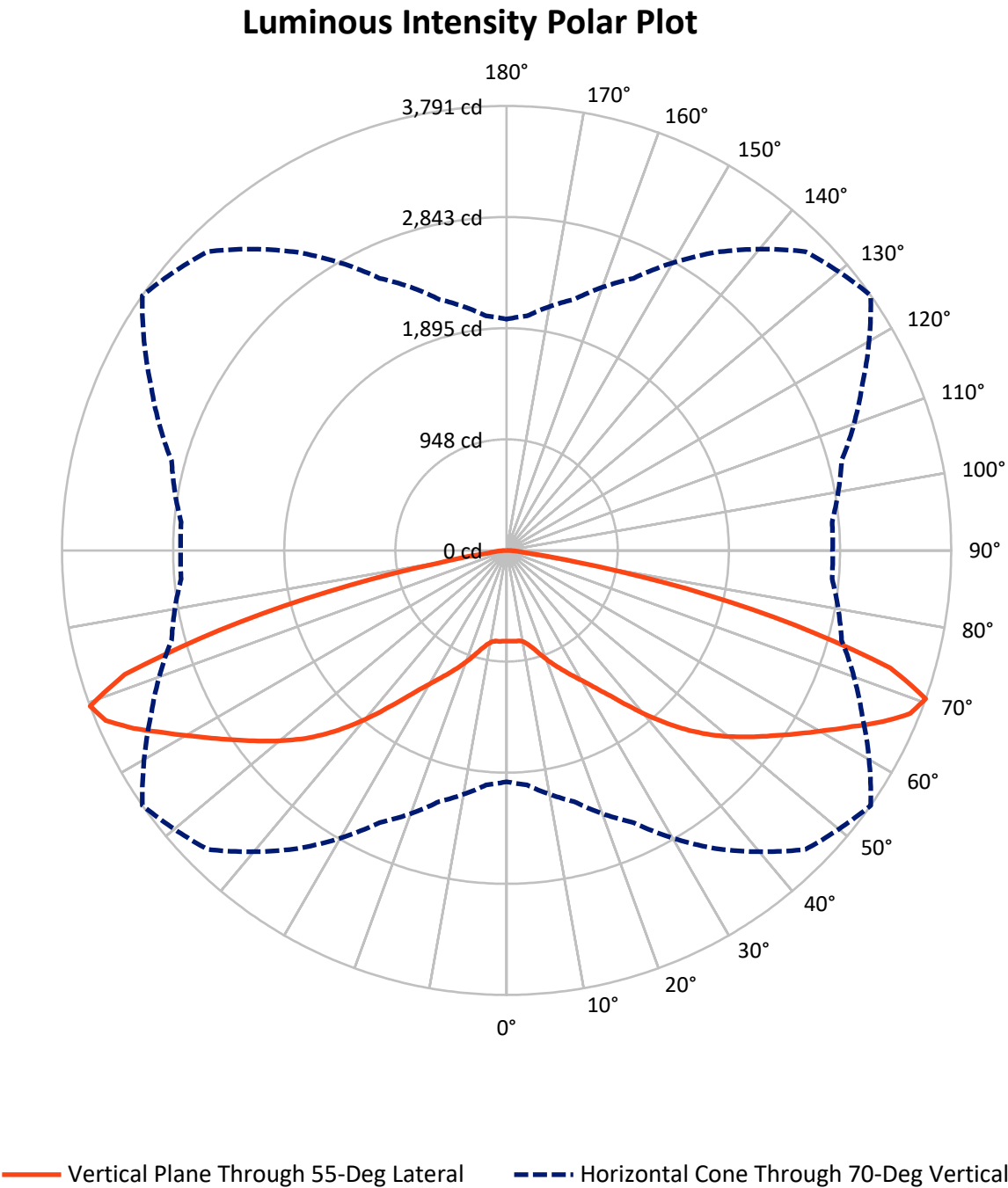
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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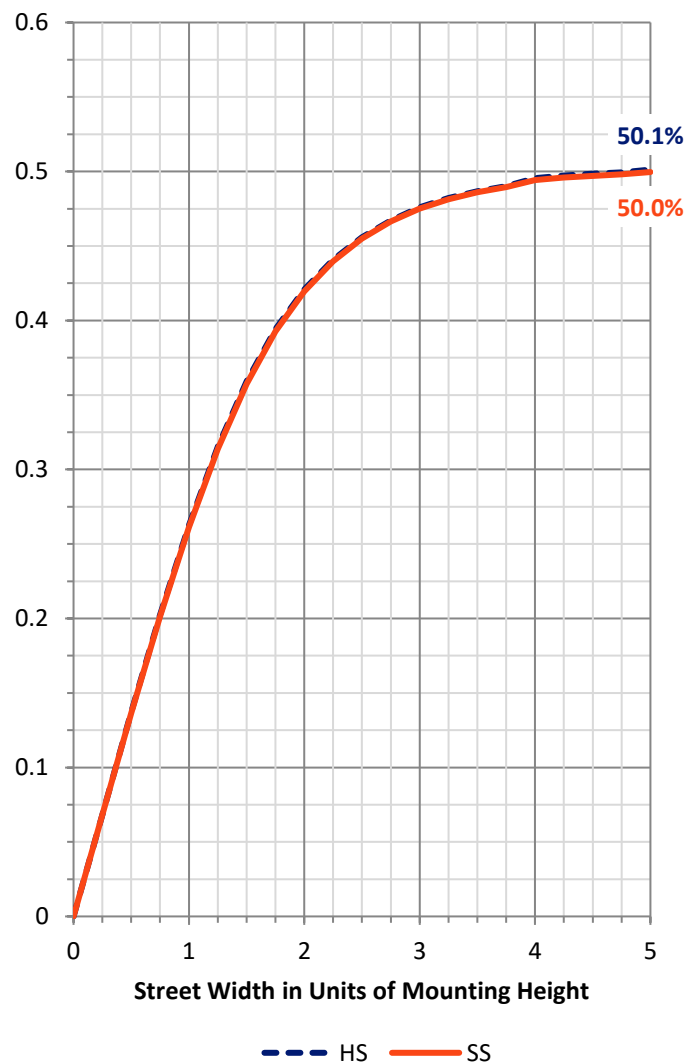
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5550.0	0.0	5550.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5550.0	0.0	5550.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11100.0	0.0	11100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	0.7
10°-20°	254.2	2.3
20°-30°	528.3	4.8
30°-40°	975.7	8.8
40°-50°	1714.0	15.4
50°-60°	2472.1	22.3
60°-70°	3025.5	27.3
70°-80°	1925.2	17.3
80°-90°	130.3	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°	11100.0	100.0
0°-180°	11100.0	100.0

Coefficient of Utilization



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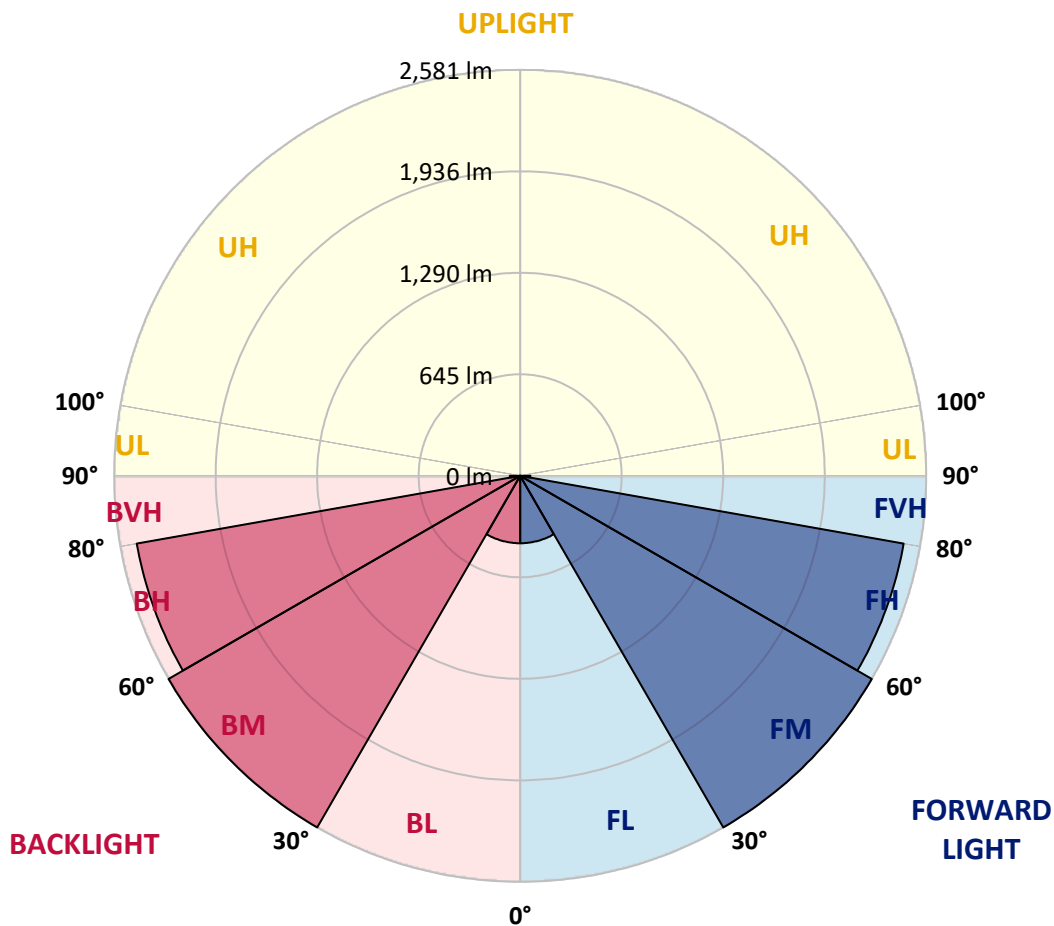
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.6	3.9			
FM	(30°-60°)	2580.9	23.3			
FH	(60°-80°)	2475.4	22.3			G2/5000
FVH	(80°-90°)	65.1	0.6			G1/100
BL	(0°-30°)	428.6	3.9	B1/500		
BM	(30°-60°)	2580.9	23.3	B3/5000		
BH	(60°-80°)	2475.4	22.3	B3/2500		G2/5000
BVH	(80°-90°)	65.1	0.6			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8	773.8
2.5°	784.1	784.1	782.0	782.0	777.9	775.8	773.8	773.8	771.7	771.7	769.6
5°	788.2	788.2	788.2	786.2	784.1	782.0	777.9	773.8	771.7	769.6	767.6
7.5°	790.3	790.3	788.2	788.2	786.2	784.1	777.9	771.7	769.6	767.6	767.6
10°	806.8	804.7	802.7	798.5	798.5	798.5	790.3	784.1	782.0	782.0	782.0
12.5°	846.0	843.9	839.8	833.6	833.6	835.7	823.3	815.0	815.0	813.0	813.0
15°	903.8	901.7	897.6	887.3	885.2	889.3	870.8	862.5	862.5	862.5	860.4
17.5°	967.7	963.6	957.4	949.2	949.2	949.2	930.6	920.3	914.1	914.1	912.0
20°	1021.4	1019.3	1019.3	1017.3	1023.4	1023.4	998.7	982.2	967.7	959.5	957.4
22.5°	1068.8	1066.8	1070.9	1079.2	1091.5	1095.7	1066.8	1042.0	1019.3	1002.8	998.7
25°	1132.8	1130.7	1128.7	1141.1	1161.7	1167.9	1136.9	1106.0	1083.3	1075.0	1070.9
27.5°	1200.9	1203.0	1205.0	1217.4	1233.9	1244.2	1213.3	1184.4	1165.8	1153.4	1149.3
30°	1277.2	1281.4	1287.6	1306.1	1318.5	1322.6	1295.8	1275.2	1258.7	1248.4	1242.2
32.5°	1374.2	1382.5	1390.7	1407.2	1413.4	1409.3	1396.9	1382.5	1370.1	1355.7	1353.6
35°	1518.7	1526.9	1524.9	1531.0	1533.1	1529.0	1522.8	1514.5	1508.3	1489.8	1487.7
37.5°	1700.2	1708.5	1696.1	1689.9	1675.5	1677.5	1675.5	1681.7	1683.7	1665.2	1663.1
40°	1883.9	1892.1	1875.6	1859.1	1844.7	1838.5	1848.8	1869.4	1869.4	1857.1	1857.1
42.5°	2079.9	2086.1	2059.3	2038.6	2020.1	2015.9	2022.1	2046.9	2053.1	2051.0	2051.0
45°	2275.9	2271.8	2236.7	2216.1	2199.6	2189.3	2191.3	2209.9	2222.3	2228.5	2228.5
47.5°	2426.6	2420.4	2391.5	2375.0	2364.7	2350.2	2350.2	2360.5	2366.7	2368.8	2368.8
50°	2546.2	2540.0	2511.2	2509.1	2509.1	2502.9	2496.7	2494.6	2490.5	2492.6	2492.6
52.5°	2649.4	2641.2	2620.5	2624.6	2643.2	2647.3	2639.1	2622.6	2606.1	2599.9	2601.9
55°	2760.8	2748.4	2731.9	2744.3	2781.5	2798.0	2785.6	2752.6	2723.7	2705.1	2705.1
57.5°	2849.6	2835.1	2835.1	2870.2	2938.3	2971.3	2944.5	2882.6	2833.0	2812.4	2814.5
60°	2787.7	2775.3	2824.8	2979.5	3107.5	3163.2	3117.8	3008.4	2928.0	2903.2	2907.3
62.5°	2665.9	2657.7	2719.6	2958.9	3260.2	3375.7	3307.6	3150.8	3031.1	3002.2	3002.2
65°	2486.4	2484.3	2571.0	2866.1	3295.2	3580.0	3522.2	3305.6	3150.8	3111.6	3119.9
67.5°	2300.7	2300.7	2379.1	2707.2	3254.0	3666.7	3712.1	3445.9	3208.6	3111.6	3113.7
70°	1972.6	2007.7	2216.1	2560.7	3103.4	3604.8	3790.5	3346.8	2956.9	2785.6	2779.4
72.5°	1299.9	1345.3	1760.1	2304.8	2954.8	3379.8	3421.1	2940.3	2455.4	2255.3	2245.0
75°	784.1	823.3	1141.1	1799.3	2597.8	2721.6	2540.0	2304.8	1834.4	1677.5	1677.5
77.5°	231.1	257.9	526.2	1141.1	1797.2	1789.0	1566.1	1357.7	1085.3	922.3	934.7
80°	136.2	140.3	171.3	520.0	744.9	784.1	604.6	377.6	377.6	280.6	272.4
82.5°	105.2	105.2	109.4	130.0	179.5	200.1	152.7	130.0	148.6	125.9	119.7
85°	74.3	74.3	74.3	76.3	78.4	80.5	84.6	86.7	94.9	78.4	74.3
87.5°	22.7	24.8	26.8	31.0	37.1	39.2	41.3	37.1	37.1	35.1	33.0
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)