

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: P799887

Luminaire Tested: **ARCH2-60-730-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799887
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: ARCH2-60-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8923 lumens
Efficiency: N/A
Efficacy: 139.9 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): 63.8
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

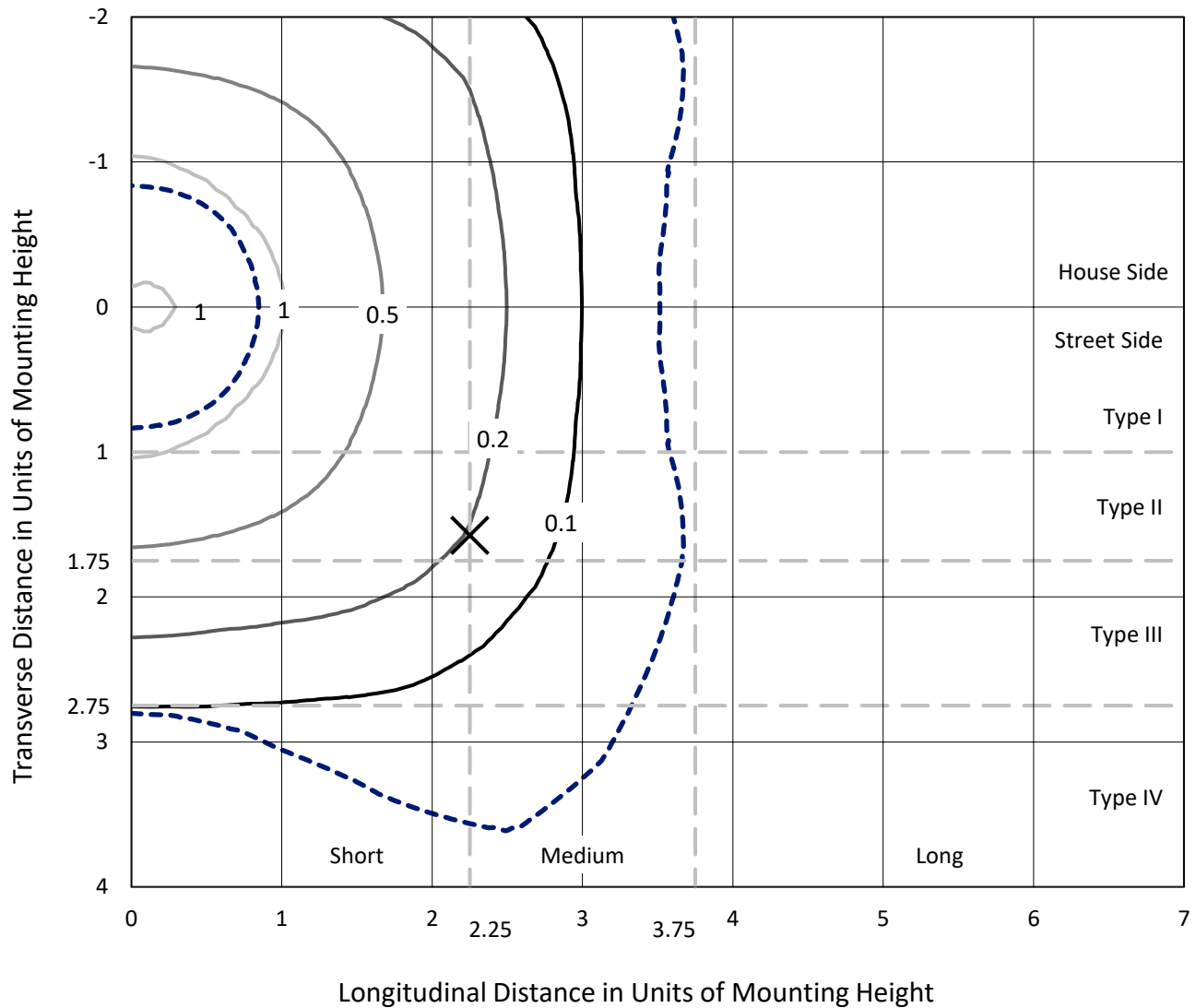


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Iso-Footcandle Lines of Horizontal Illumination

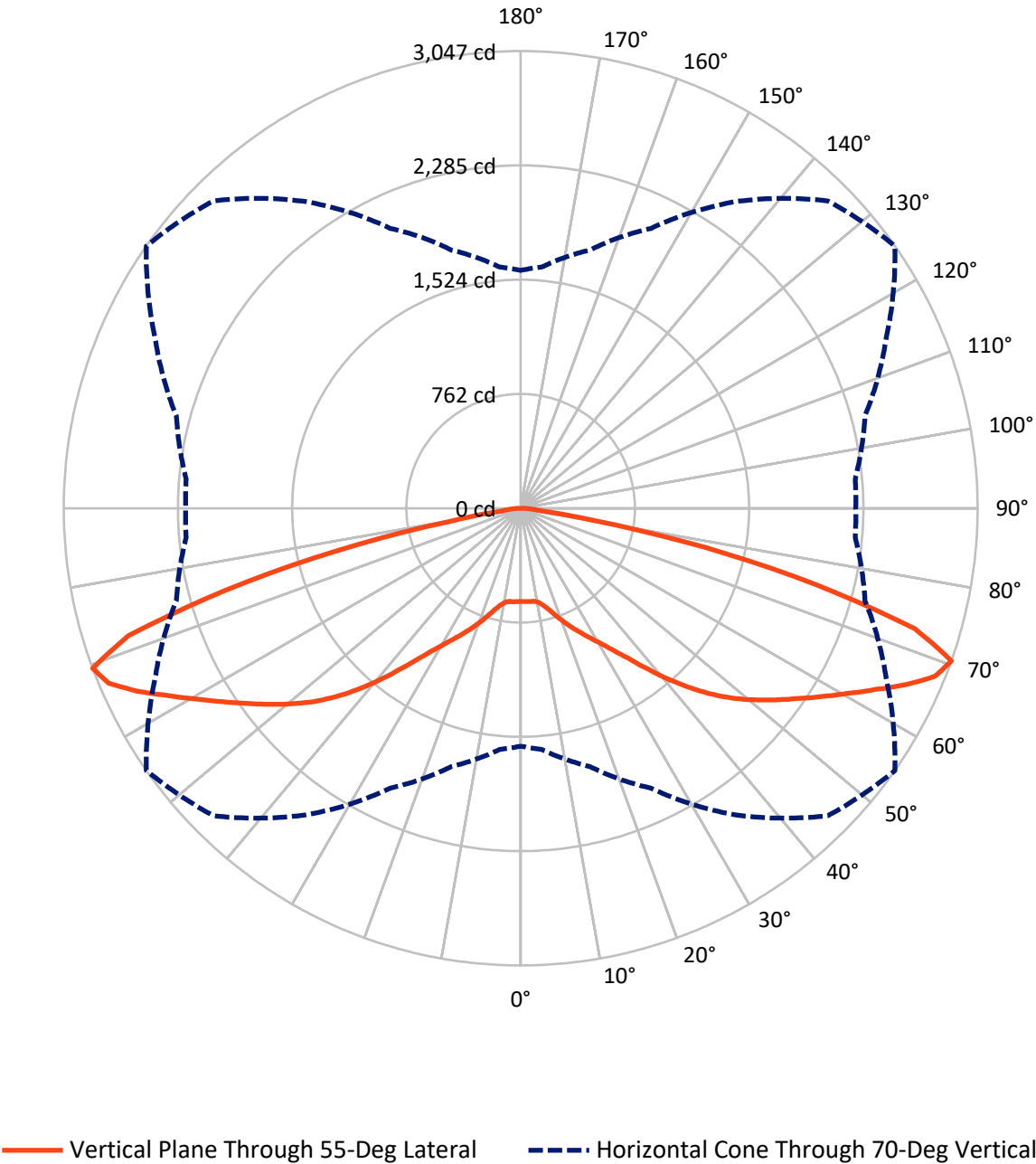
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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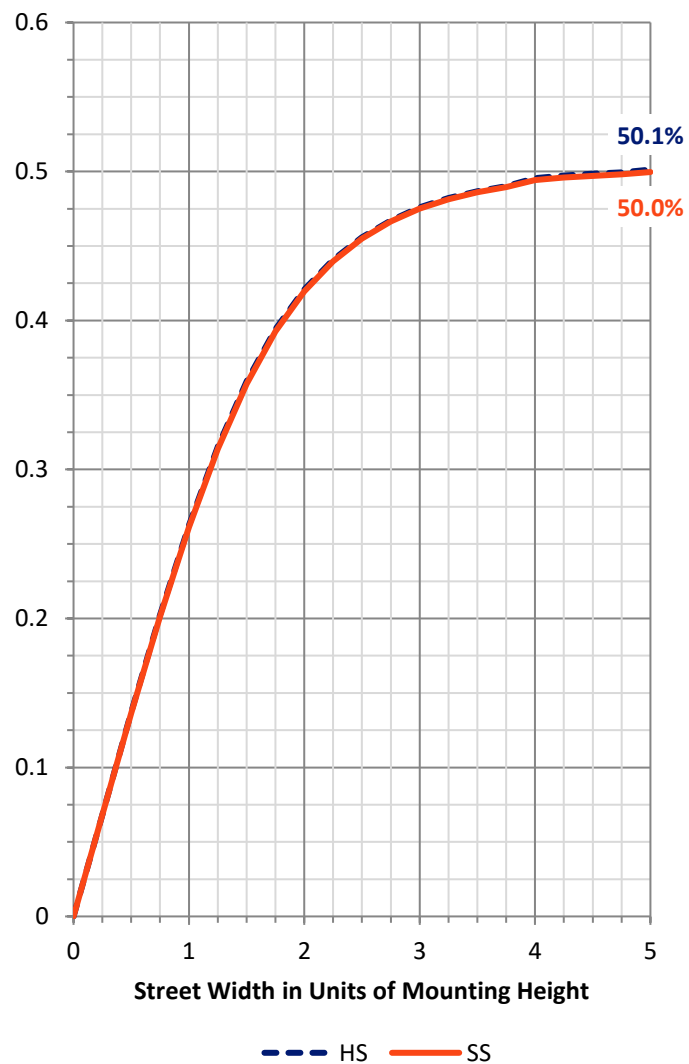
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4461.5	0.0	4461.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4461.5	0.0	4461.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8923.0	0.0	8923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	0.7
10°-20°	204.4	2.3
20°-30°	424.7	4.8
30°-40°	784.3	8.8
40°-50°	1377.9	15.4
50°-60°	1987.2	22.3
60°-70°	2432.2	27.3
70°-80°	1547.6	17.3
80°-90°	104.7	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°	8923.0	100.0
0°-180°	8923.0	100.0

Coefficient of Utilization



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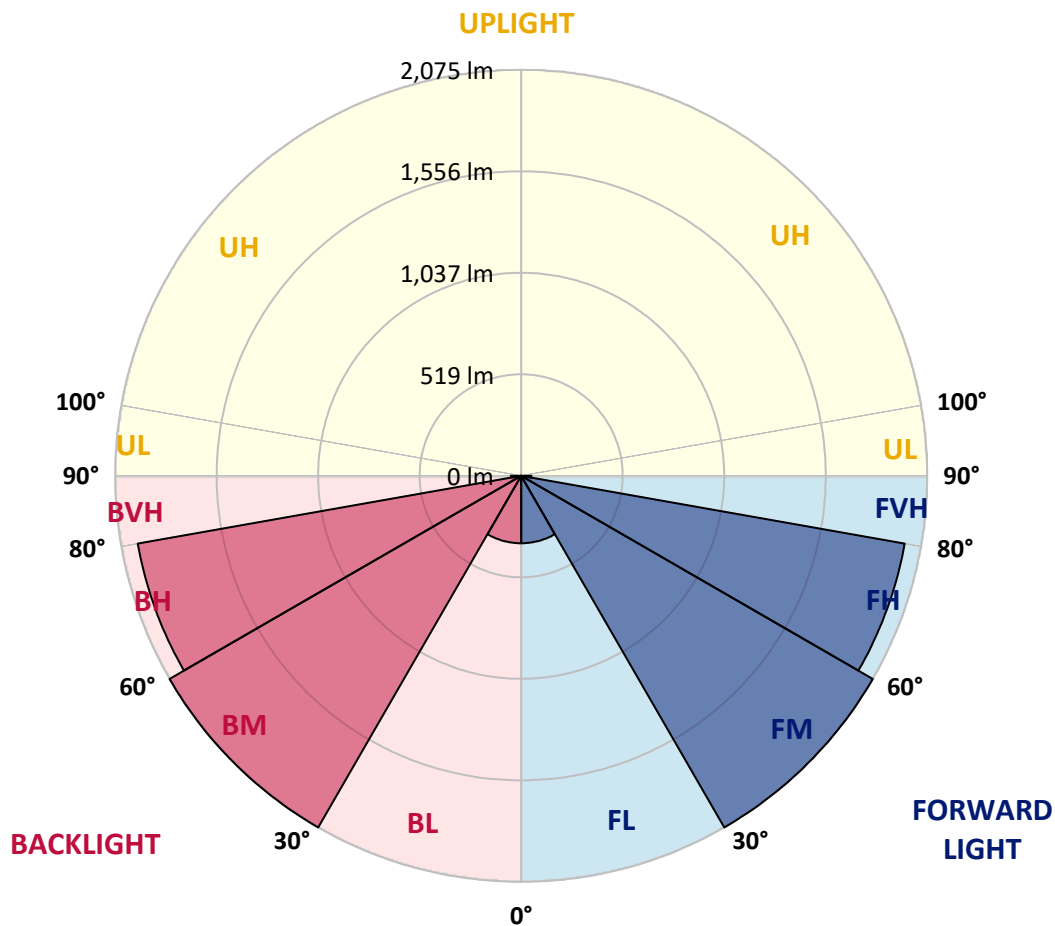
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.5	3.9			
FM	(30°-60°)	2074.7	23.3			
FH	(60°-80°)	1989.9	22.3			G2/5000
FVH	(80°-90°)	52.4	0.6			G1/100
BL	(0°-30°)	344.5	3.9	B1/500		
BM	(30°-60°)	2074.7	23.3	B2/2500		
BH	(60°-80°)	1989.9	22.3	B3/2500		G2/5000
BVH	(80°-90°)	52.4	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°	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0	622.0
2.5°	630.3	630.3	628.7	628.7	625.3	623.7	622.0	622.0	620.4	620.4	618.7
5°	633.6	633.6	633.6	632.0	630.3	628.7	625.3	622.0	620.4	618.7	617.0
7.5°	635.3	635.3	633.6	633.6	632.0	630.3	625.3	620.4	618.7	617.0	617.0
10°	648.6	646.9	645.2	641.9	641.9	641.9	635.3	630.3	628.7	628.7	628.7
12.5°	680.1	678.4	675.1	670.1	670.1	671.8	661.8	655.2	655.2	653.5	653.5
15°	726.5	724.9	721.5	713.2	711.6	714.9	700.0	693.3	693.3	693.3	691.7
17.5°	777.9	774.6	769.6	763.0	763.0	763.0	748.1	739.8	734.8	734.8	733.2
20°	821.1	819.4	819.4	817.7	822.7	822.7	802.8	789.5	777.9	771.3	769.6
22.5°	859.2	857.6	860.9	867.5	877.5	880.8	857.6	837.6	819.4	806.1	802.8
25°	910.6	909.0	907.3	917.3	933.9	938.8	914.0	889.1	870.8	864.2	860.9
27.5°	965.4	967.0	968.7	978.6	991.9	1000.2	975.3	952.1	937.2	927.2	923.9
30°	1026.7	1030.1	1035.0	1050.0	1059.9	1063.2	1041.7	1025.1	1011.8	1003.5	998.5
32.5°	1104.7	1111.3	1118.0	1131.2	1136.2	1132.9	1122.9	1111.3	1101.4	1089.8	1088.1
35°	1220.8	1227.4	1225.8	1230.8	1232.4	1229.1	1224.1	1217.5	1212.5	1197.6	1195.9
37.5°	1366.8	1373.4	1363.5	1358.5	1346.9	1348.5	1346.9	1351.9	1353.5	1338.6	1336.9
40°	1514.4	1521.0	1507.8	1494.5	1482.9	1477.9	1486.2	1502.8	1502.8	1492.8	1492.8
42.5°	1672.0	1677.0	1655.4	1638.8	1623.9	1620.6	1625.5	1645.4	1650.4	1648.8	1648.8
45°	1829.6	1826.2	1798.0	1781.5	1768.2	1759.9	1761.6	1776.5	1786.4	1791.4	1791.4
47.5°	1950.6	1945.7	1922.4	1909.2	1900.9	1889.3	1889.3	1897.6	1902.5	1904.2	1904.2
50°	2046.9	2041.9	2018.7	2017.0	2017.0	2012.0	2007.0	2005.4	2002.1	2003.7	2003.7
52.5°	2129.8	2123.2	2106.6	2109.9	2124.8	2128.1	2121.5	2108.2	2095.0	2090.0	2091.6
55°	2219.4	2209.4	2196.1	2206.1	2235.9	2249.2	2239.3	2212.7	2189.5	2174.6	2174.6
57.5°	2290.7	2279.1	2279.1	2307.3	2362.0	2388.5	2367.0	2317.2	2277.4	2260.8	2262.5
60°	2240.9	2231.0	2270.8	2395.2	2498.0	2542.8	2506.3	2418.4	2353.7	2333.8	2337.1
62.5°	2143.1	2136.4	2186.2	2378.6	2620.8	2713.7	2658.9	2532.9	2436.6	2413.4	2413.4
65°	1998.7	1997.1	2066.8	2304.0	2649.0	2877.9	2831.4	2657.3	2532.9	2501.3	2508.0
67.5°	1849.5	1849.5	1912.5	2176.2	2615.8	2947.5	2984.0	2770.1	2579.3	2501.3	2503.0
70°	1585.7	1613.9	1781.5	2058.5	2494.7	2897.8	3047.1	2690.4	2376.9	2239.3	2234.3
72.5°	1045.0	1081.5	1414.9	1852.8	2375.3	2717.0	2750.1	2363.7	1973.9	1813.0	1804.7
75°	630.3	661.8	917.3	1446.4	2088.3	2187.8	2041.9	1852.8	1474.6	1348.5	1348.5
77.5°	185.8	207.3	423.0	917.3	1444.7	1438.1	1259.0	1091.4	872.5	741.4	751.4
80°	109.5	112.8	137.7	418.0	598.8	630.3	486.0	303.5	303.5	225.6	219.0
82.5°	84.6	84.6	87.9	104.5	144.3	160.9	122.7	104.5	119.4	101.2	96.2
85°	59.7	59.7	59.7	61.4	63.0	64.7	68.0	69.7	76.3	63.0	59.7
87.5°	18.2	19.9	21.6	24.9	29.9	31.5	33.2	29.9	29.9	28.2	26.5
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)