

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: P799999

Luminaire Tested: **ARCH2-70-727-U-5WQ**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799999  
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: ARCH2-70-727-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

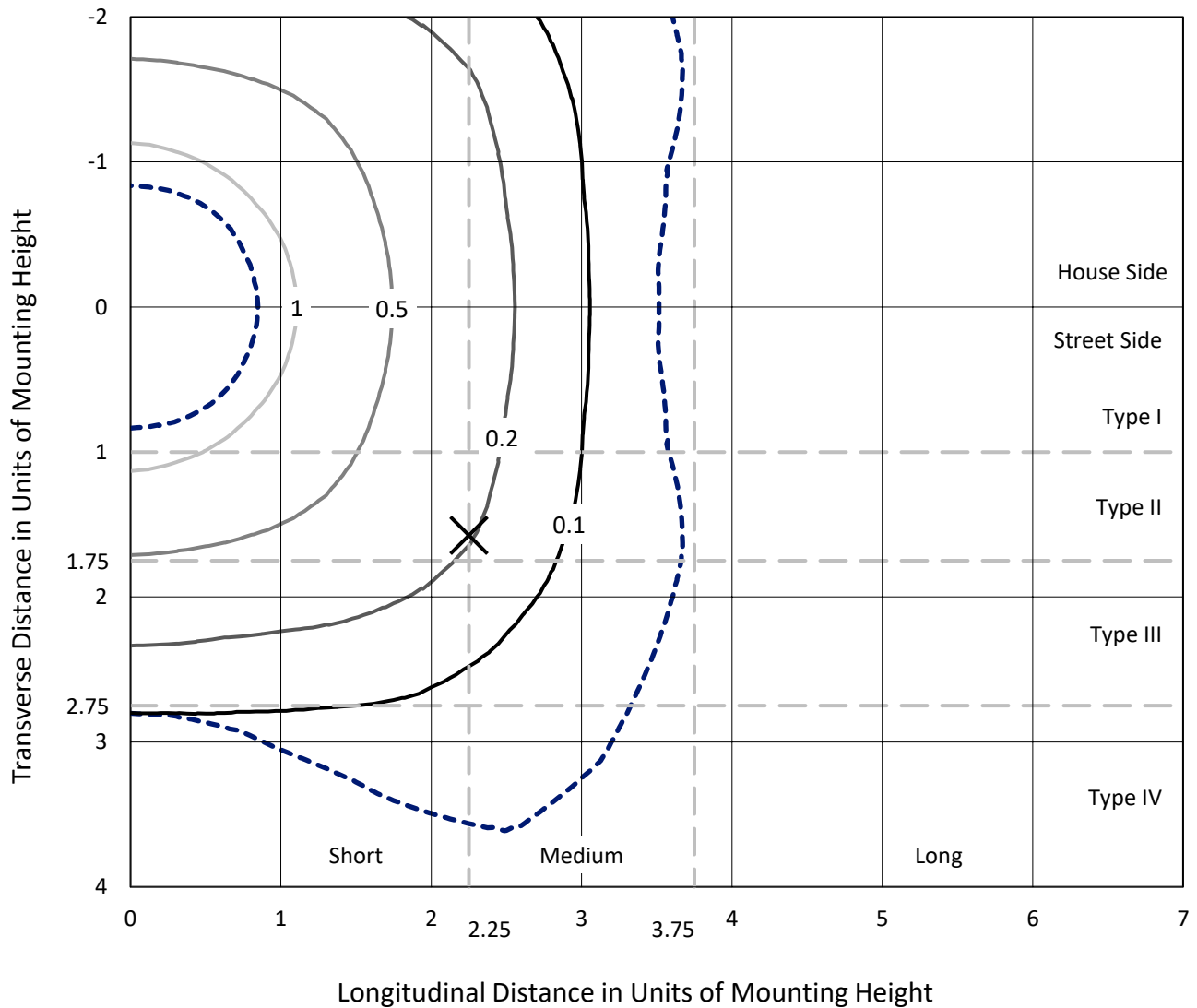
Lumens per Lamp: N/A  
Luminaire Lumens: 9645 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): 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

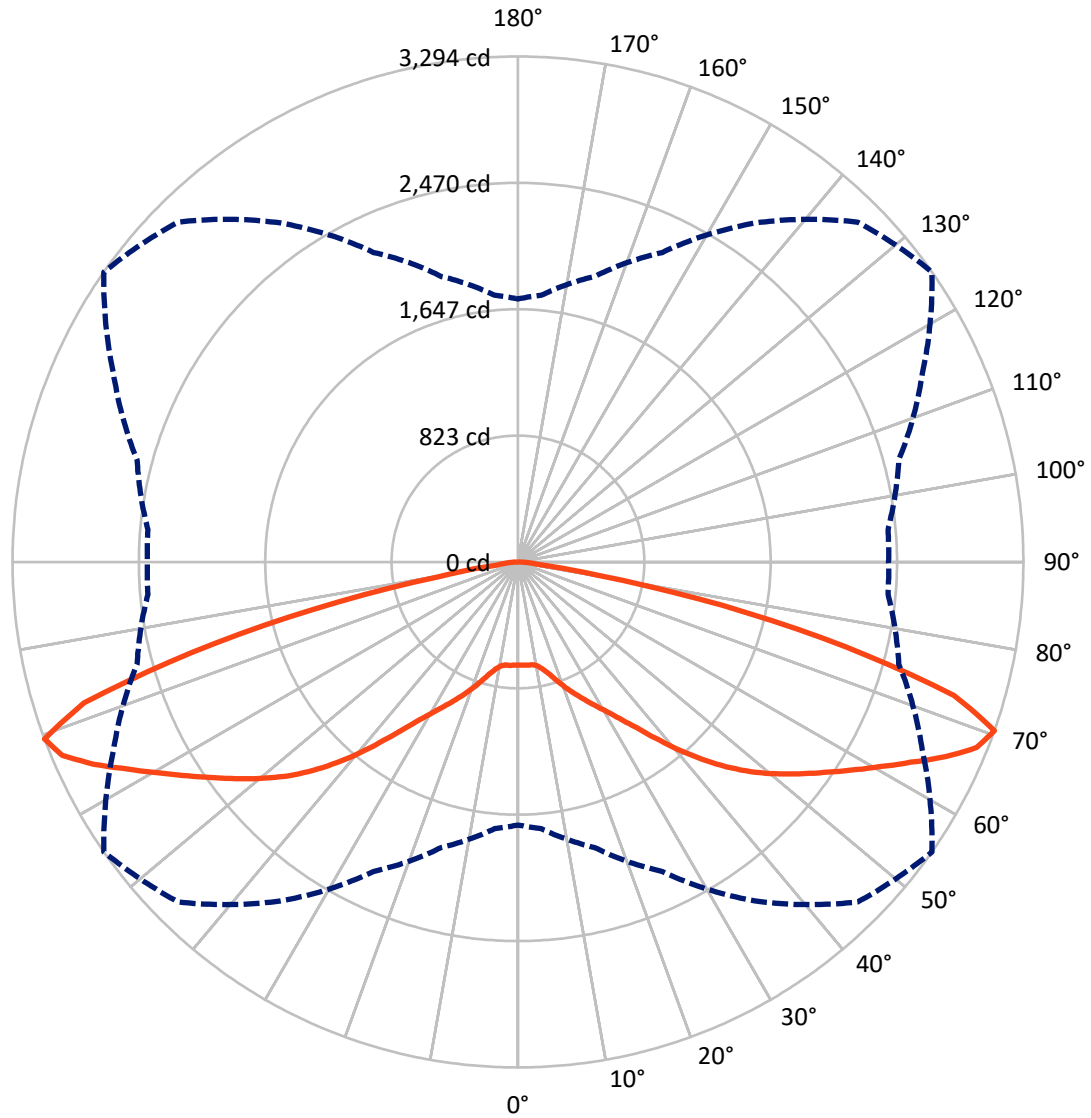
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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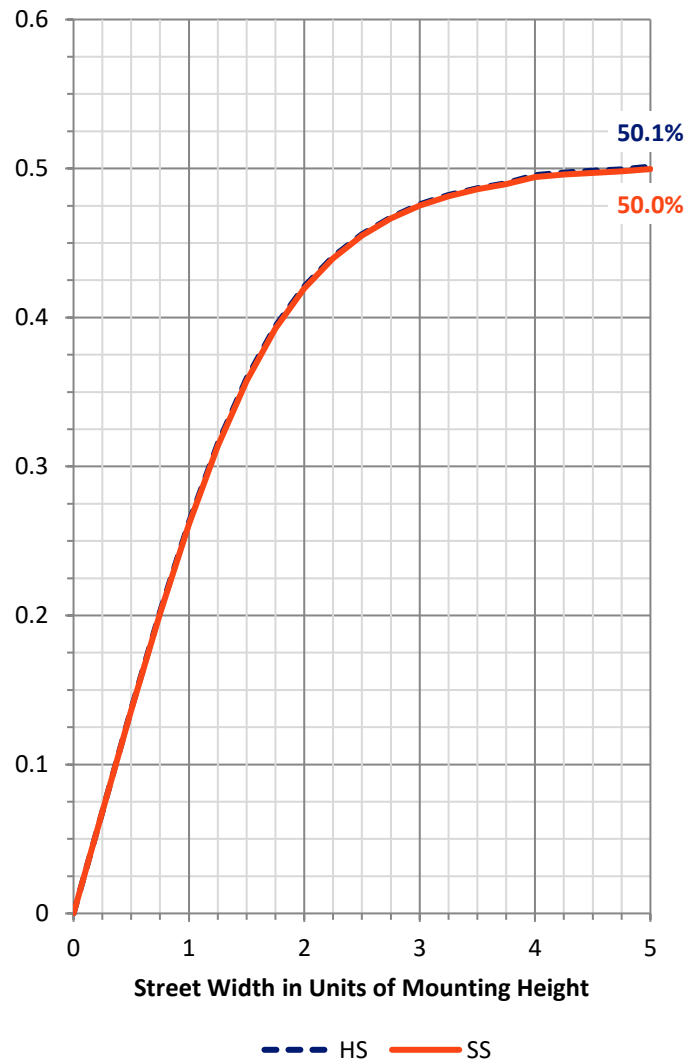
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4822.5	0.0	4822.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4822.5	0.0	4822.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9645.0	0.0	9645.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	0.7
10°-20°	220.9	2.3
20°-30°	459.0	4.8
30°-40°	847.8	8.8
40°-50°	1489.4	15.4
50°-60°	2148.0	22.3
60°-70°	2628.9	27.3
70°-80°	1672.9	17.3
80°-90°	113.2	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°	9645.0	100.0
0°-180°	9645.0	100.0

**Coefficient of Utilization**



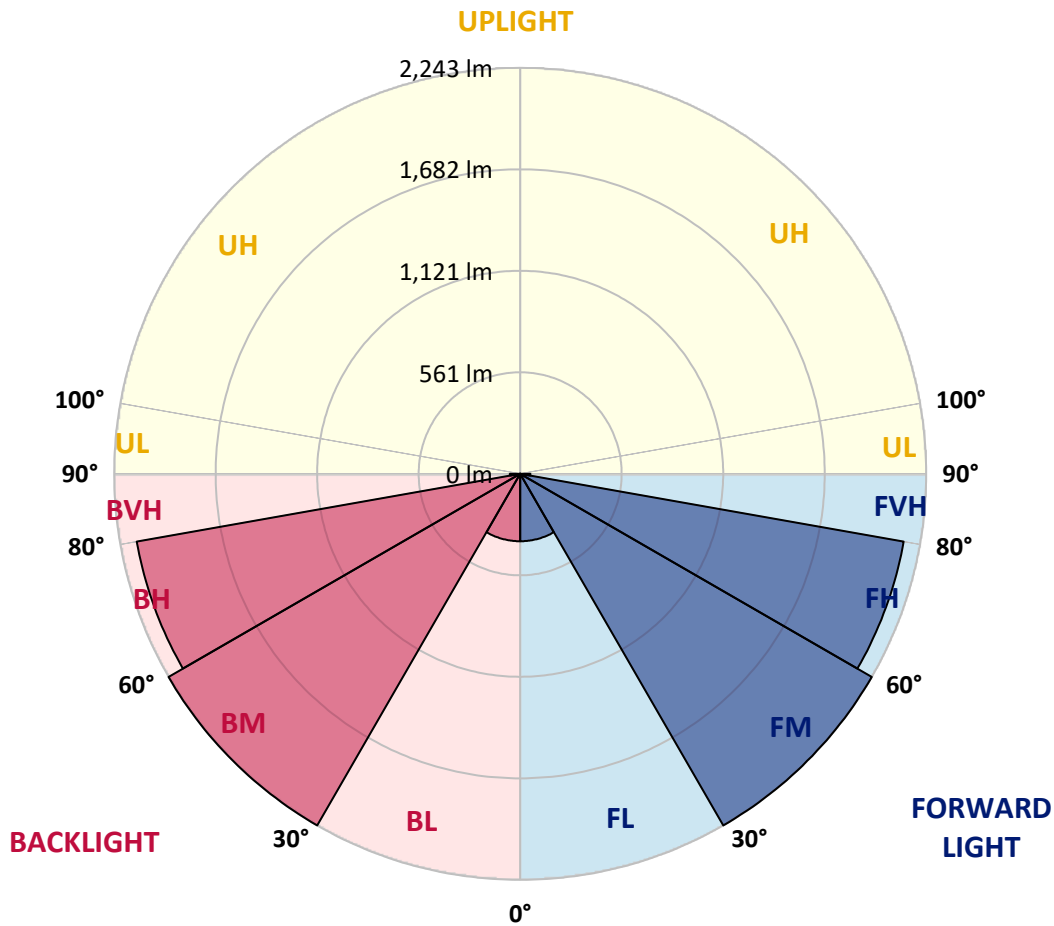
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.4	3.9			
FM (30°-60°)	2242.6	23.3			
FH (60°-80°)	2150.9	22.3			G2/5000
FVH (80°-90°)	56.6	0.6			G1/100
BL (0°-30°)	372.4	3.9	B1/500		
BM (30°-60°)	2242.6	23.3	B2/2500		
BH (60°-80°)	2150.9	22.3	B3/2500		G2/5000
BVH (80°-90°)	56.6	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°	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3	672.3
2.5°	681.3	681.3	679.5	679.5	675.9	674.1	672.3	672.3	670.6	670.6	668.8
5°	684.9	684.9	684.9	683.1	681.3	679.5	675.9	672.3	670.6	668.8	667.0
7.5°	686.7	686.7	684.9	684.9	683.1	681.3	675.9	670.6	668.8	667.0	667.0
10°	701.0	699.2	697.4	693.9	693.9	693.9	686.7	681.3	679.5	679.5	679.5
12.5°	735.1	733.3	729.7	724.3	724.3	726.1	715.4	708.2	708.2	706.4	706.4
15°	785.3	783.5	779.9	771.0	769.2	772.8	756.6	749.4	749.4	749.4	747.7
17.5°	840.9	837.3	831.9	824.7	824.7	824.7	808.6	799.6	794.3	794.3	792.5
20°	887.5	885.7	885.7	883.9	889.3	889.3	867.8	853.4	840.9	833.7	831.9
22.5°	928.7	926.9	930.5	937.7	948.5	952.0	926.9	905.4	885.7	871.4	867.8
25°	984.3	982.5	980.7	991.5	1009.4	1014.8	987.9	961.0	941.3	934.1	930.5
27.5°	1043.5	1045.3	1047.1	1057.8	1072.2	1081.1	1054.2	1029.1	1013.0	1002.2	998.7
30°	1109.8	1113.4	1118.8	1134.9	1145.7	1149.3	1126.0	1108.0	1093.7	1084.7	1079.3
32.5°	1194.1	1201.3	1208.4	1222.8	1228.2	1224.6	1213.8	1201.3	1190.5	1178.0	1176.2
35°	1319.6	1326.8	1325.0	1330.4	1332.1	1328.6	1323.2	1316.0	1310.6	1294.5	1292.7
37.5°	1477.4	1484.5	1473.8	1468.4	1455.9	1457.6	1455.9	1461.2	1463.0	1446.9	1445.1
40°	1636.9	1644.1	1629.8	1615.4	1602.9	1597.5	1606.5	1624.4	1624.4	1613.6	1613.6
42.5°	1807.3	1812.6	1789.3	1771.4	1755.3	1751.7	1757.1	1778.6	1784.0	1782.2	1782.2
45°	1977.6	1974.0	1943.5	1925.6	1911.3	1902.3	1904.1	1920.2	1931.0	1936.4	1936.4
47.5°	2108.5	2103.1	2078.0	2063.7	2054.7	2042.1	2042.1	2051.1	2056.5	2058.3	2058.3
50°	2212.5	2207.1	2182.0	2180.2	2180.2	2174.8	2169.4	2167.6	2164.1	2165.9	2165.9
52.5°	2302.1	2294.9	2277.0	2280.6	2296.7	2300.3	2293.2	2278.8	2264.5	2259.1	2260.9
55°	2398.9	2388.2	2373.8	2384.6	2416.9	2431.2	2420.5	2391.8	2366.7	2350.5	2350.5
57.5°	2476.0	2463.5	2463.5	2494.0	2553.1	2581.8	2558.5	2504.7	2461.7	2443.8	2445.6
60°	2422.2	2411.5	2454.5	2589.0	2700.1	2748.6	2709.1	2614.1	2544.2	2522.6	2526.2
62.5°	2316.5	2309.3	2363.1	2571.1	2832.8	2933.2	2874.1	2737.8	2633.8	2608.7	2608.7
65°	2160.5	2158.7	2234.0	2490.4	2863.3	3110.7	3060.5	2872.3	2737.8	2703.7	2710.9
67.5°	1999.1	1999.1	2067.2	2352.3	2827.4	3186.0	3225.5	2994.2	2788.0	2703.7	2705.5
70°	1714.0	1744.5	1925.6	2225.0	2696.6	3132.2	3293.6	2908.1	2569.3	2420.5	2415.1
72.5°	1129.5	1169.0	1529.4	2002.7	2567.5	2936.8	2972.7	2554.9	2133.6	1959.7	1950.7
75°	681.3	715.4	991.5	1563.4	2257.3	2364.9	2207.1	2002.7	1593.9	1457.6	1457.6
77.5°	200.8	224.1	457.2	991.5	1561.6	1554.5	1360.8	1179.7	943.1	801.4	812.2
80°	118.3	121.9	148.8	451.8	647.2	681.3	525.3	328.1	328.1	243.8	236.7
82.5°	91.4	91.4	95.0	113.0	156.0	173.9	132.7	113.0	129.1	109.4	104.0
85°	64.5	64.5	64.5	66.3	68.1	69.9	73.5	75.3	82.5	68.1	64.5
87.5°	19.7	21.5	23.3	26.9	32.3	34.1	35.9	32.3	32.3	30.5	28.7
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)