

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: P842512

Luminaire Tested: **ARCH4-60-722-U-5WQ**

Issue Date: 5/27/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P842512  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-60-722-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9523 lumens  
Efficiency: N/A  
Efficacy: 151.2 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B3 - U0 - G2

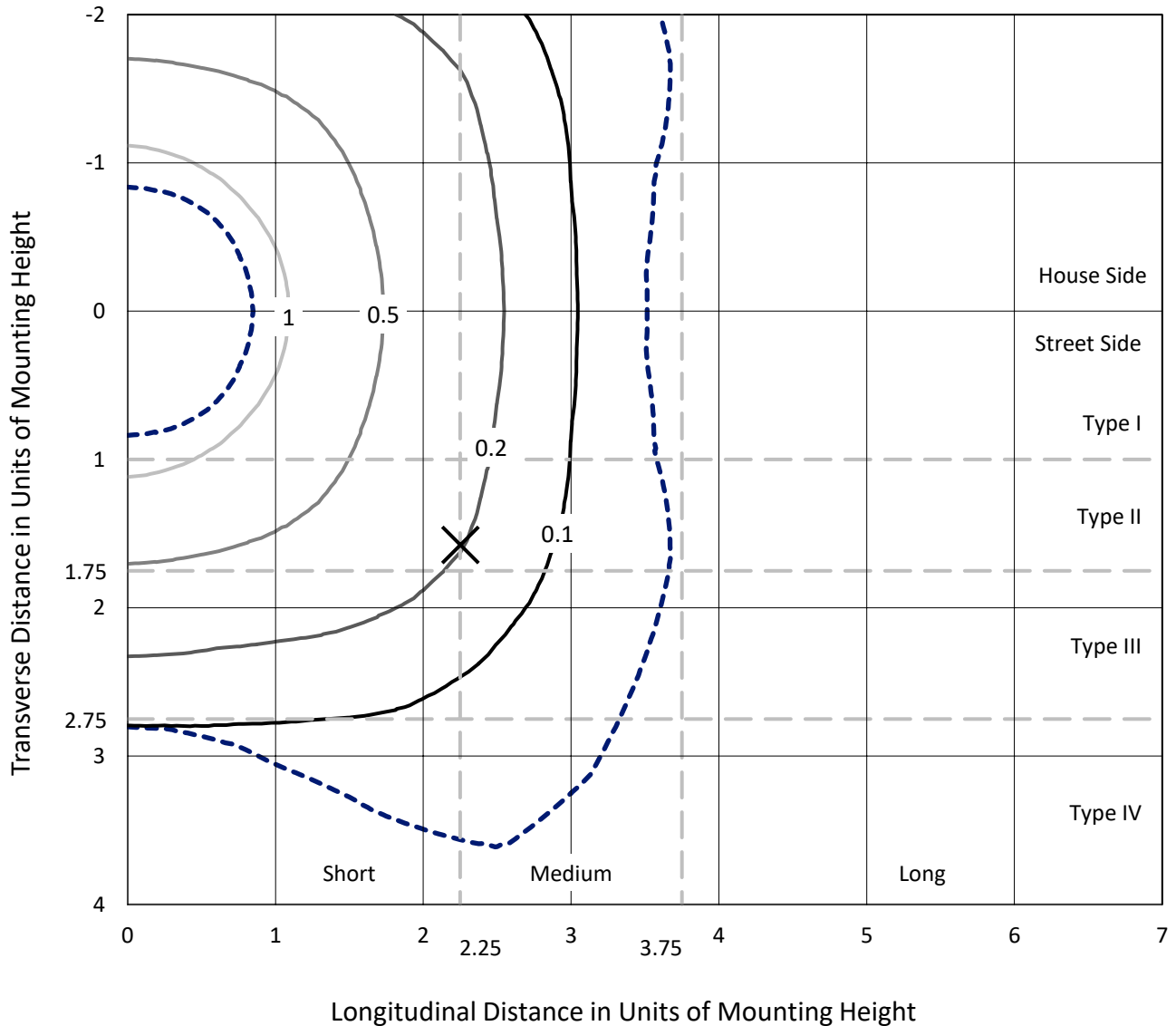
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P842512  
 CATALOG NUMBER: ARCH4-60-722-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

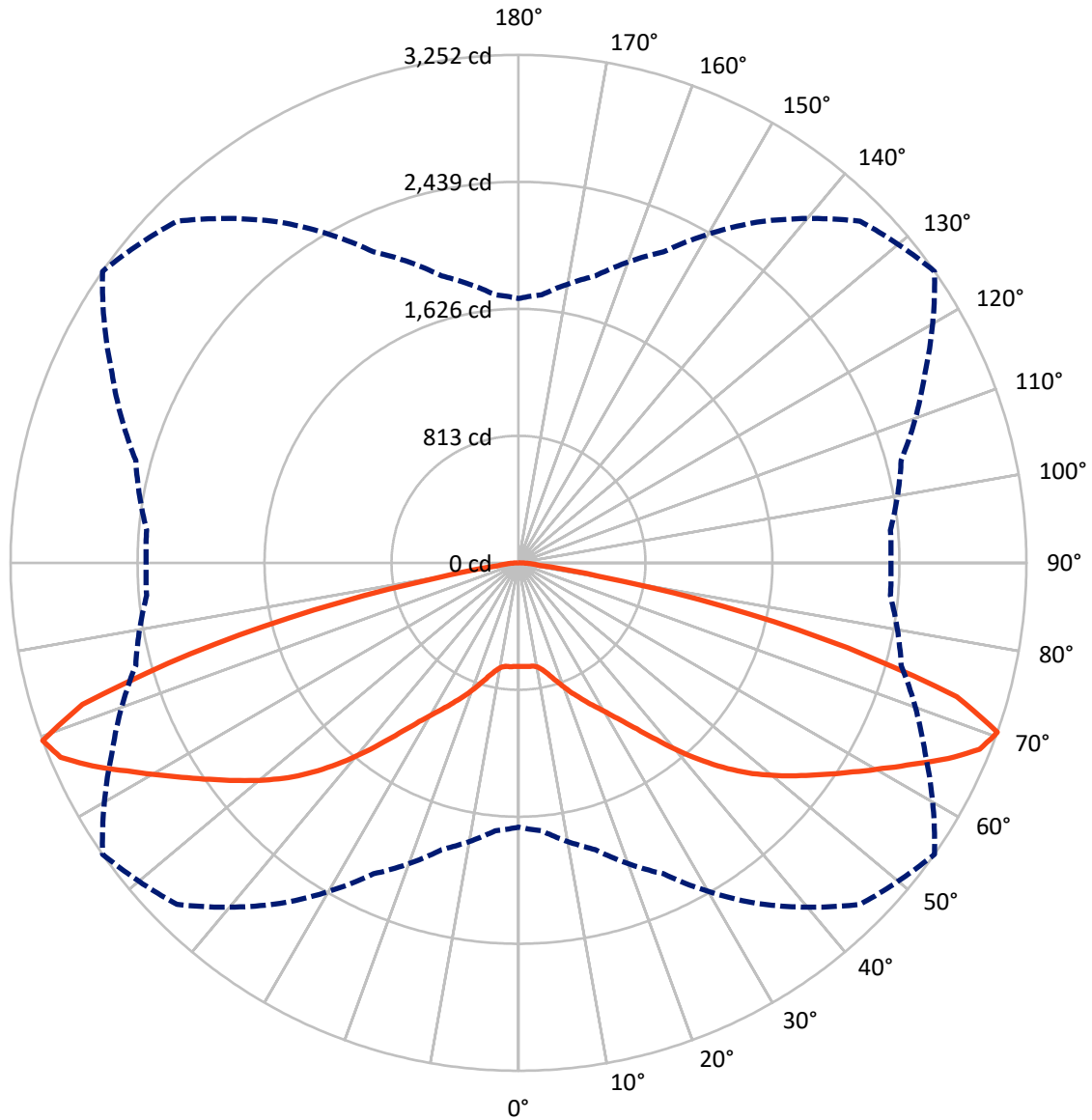
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P842512  
CATALOG NUMBER: ARCH4-60-722-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P842512  
 CATALOG NUMBER: ARCH4-60-722-U-5WQ

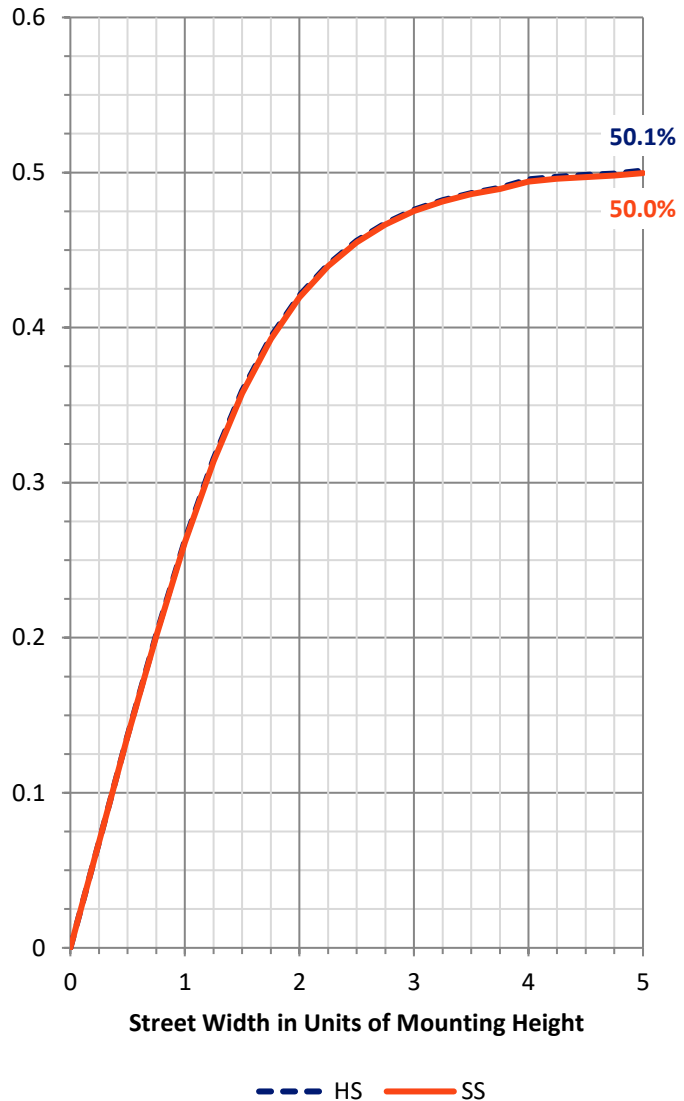
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4761.5	0.0	4761.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4761.5	0.0	4761.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9523.0	0.0	9523.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	0.7
10°-20°	218.1	2.3
20°-30°	453.2	4.8
30°-40°	837.1	8.8
40°-50°	1470.5	15.4
50°-60°	2120.8	22.3
60°-70°	2595.7	27.3
70°-80°	1651.7	17.3
80°-90°	111.8	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°	9523.0	100.0
0°-180°	9523.0	100.0

**Coefficient of Utilization**

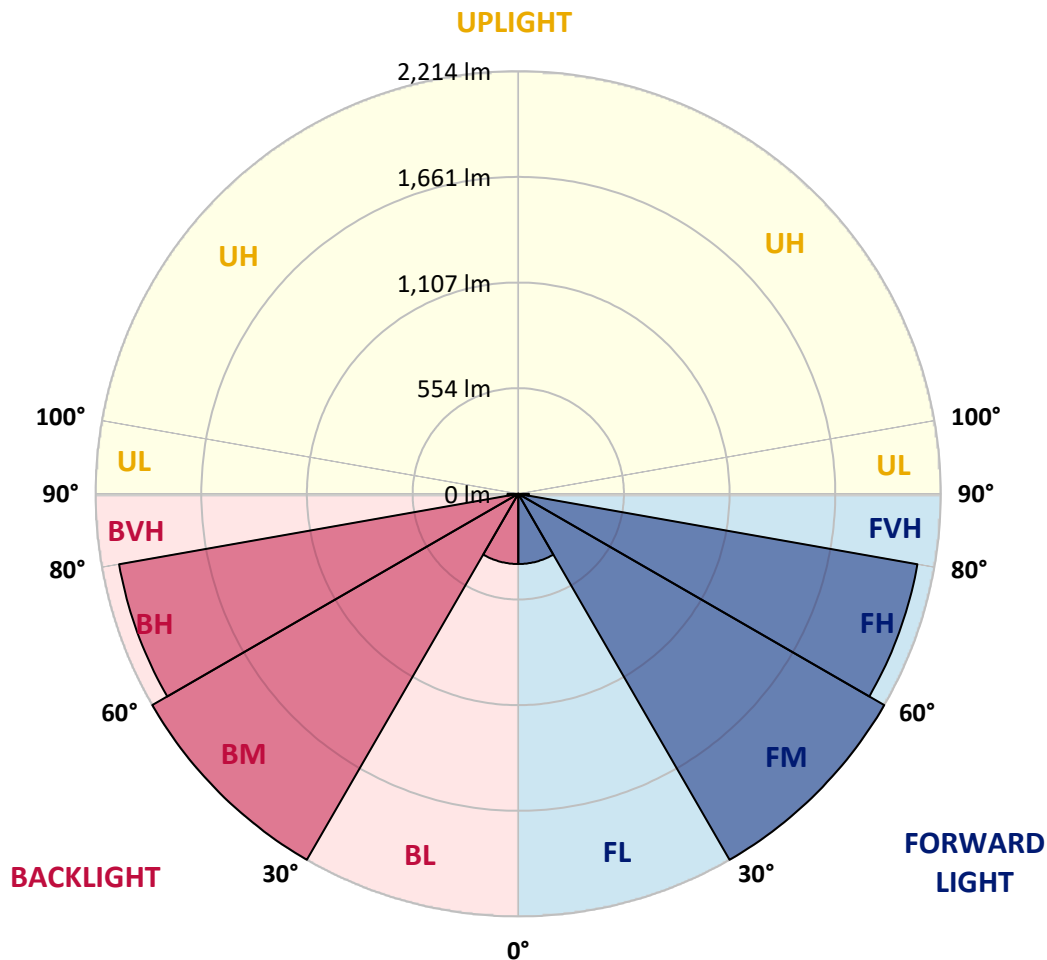


REPORT NUMBER: P842512  
 CATALOG NUMBER: ARCH4-60-722-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	367.7	3.9			
FM (30°-60°)	2214.2	23.3			
FH (60°-80°)	2123.7	22.3			G2/5000
FVH (80°-90°)	55.9	0.6			G1/100
BL (0°-30°)	367.7	3.9	B1/500		
BM (30°-60°)	2214.2	23.3	B2/2500		
BH (60°-80°)	2123.7	22.3	B3/2500		G2/5000
BVH (80°-90°)	55.9	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



REPORT NUMBER: P842512  
 CATALOG NUMBER: ARCH4-60-722-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8	663.8
2.5°	672.7	672.7	670.9	670.9	667.4	665.6	663.8	663.8	662.1	662.1	660.3
5°	676.2	676.2	676.2	674.5	672.7	670.9	667.4	663.8	662.1	660.3	658.5
7.5°	678.0	678.0	676.2	676.2	674.5	672.7	667.4	662.1	660.3	658.5	658.5
10°	692.2	690.4	688.6	685.1	685.1	685.1	678.0	672.7	670.9	670.9	670.9
12.5°	725.8	724.0	720.5	715.2	715.2	717.0	706.3	699.2	699.2	697.5	697.5
15°	775.4	773.6	770.1	761.2	759.4	763.0	747.0	740.0	740.0	740.0	738.2
17.5°	830.2	826.7	821.4	814.3	814.3	814.3	798.4	789.5	784.2	784.2	782.4
20°	876.3	874.5	874.5	872.7	878.0	878.0	856.8	842.6	830.2	823.2	821.4
22.5°	917.0	915.2	918.8	925.8	936.5	940.0	915.2	894.0	874.5	860.3	856.8
25°	971.9	970.1	968.3	978.9	996.6	1002.0	975.4	948.9	929.4	922.3	918.8
27.5°	1030.3	1032.1	1033.8	1044.4	1058.6	1067.5	1040.9	1016.1	1000.2	989.6	986.0
30°	1095.8	1099.3	1104.6	1120.6	1131.2	1134.7	1111.7	1094.0	1079.9	1071.0	1065.7
32.5°	1179.0	1186.1	1193.1	1207.3	1212.6	1209.1	1198.5	1186.1	1175.4	1163.1	1161.3
35°	1302.9	1310.0	1308.2	1313.5	1315.3	1311.8	1306.4	1299.4	1294.1	1278.1	1276.3
37.5°	1458.7	1465.8	1455.1	1449.8	1437.4	1439.2	1437.4	1442.8	1444.5	1428.6	1426.8
40°	1616.2	1623.3	1609.2	1595.0	1582.6	1577.3	1586.1	1603.8	1603.8	1593.2	1593.2
42.5°	1784.4	1789.7	1766.7	1749.0	1733.1	1729.5	1734.8	1756.1	1761.4	1759.6	1759.6
45°	1952.6	1949.0	1918.9	1901.2	1887.1	1878.2	1880.0	1895.9	1906.6	1911.9	1911.9
47.5°	2081.8	2076.5	2051.7	2037.6	2028.7	2016.3	2016.3	2025.2	2030.5	2032.2	2032.2
50°	2184.5	2179.2	2154.4	2152.6	2152.6	2147.3	2142.0	2140.2	2136.7	2138.5	2138.5
52.5°	2273.0	2265.9	2248.2	2251.8	2267.7	2271.2	2264.1	2250.0	2235.8	2230.5	2232.3
55°	2368.6	2358.0	2343.8	2354.4	2386.3	2400.5	2389.8	2361.5	2336.7	2320.8	2320.8
57.5°	2444.7	2432.3	2432.3	2462.4	2520.8	2549.2	2526.1	2473.0	2430.6	2412.8	2414.6
60°	2391.6	2381.0	2423.5	2556.2	2666.0	2713.8	2674.8	2581.0	2512.0	2490.7	2494.3
62.5°	2287.2	2280.1	2333.2	2538.5	2797.0	2896.1	2837.7	2703.2	2600.5	2575.7	2575.7
65°	2133.1	2131.4	2205.7	2458.9	2827.1	3071.4	3021.8	2835.9	2703.2	2669.5	2676.6
67.5°	1973.8	1973.8	2041.1	2322.6	2791.7	3145.7	3184.7	2956.3	2752.7	2669.5	2671.3
70°	1692.4	1722.5	1901.2	2196.9	2662.5	3092.6	3251.9	2871.3	2536.8	2389.8	2384.5
72.5°	1115.3	1154.2	1510.0	1977.4	2535.0	2899.7	2935.1	2522.6	2106.6	1934.9	1926.0
75°	672.7	706.3	978.9	1543.7	2228.7	2335.0	2179.2	1977.4	1573.8	1439.2	1439.2
77.5°	198.3	221.3	451.4	978.9	1541.9	1534.8	1343.6	1164.8	931.2	791.3	801.9
80°	116.8	120.4	146.9	446.1	639.1	672.7	518.7	324.0	324.0	240.8	233.7
82.5°	90.3	90.3	93.8	111.5	154.0	171.7	131.0	111.5	127.5	108.0	102.7
85°	63.7	63.7	63.7	65.5	67.3	69.0	72.6	74.4	81.4	67.3	63.7
87.5°	19.5	21.2	23.0	26.6	31.9	33.6	35.4	31.9	31.9	30.1	28.3
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)