

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: P800111

Luminaire Tested: **ARCH2-80-722-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800111
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: ARCH2-80-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9657 lumens
Efficiency: N/A
Efficacy: 114.6 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

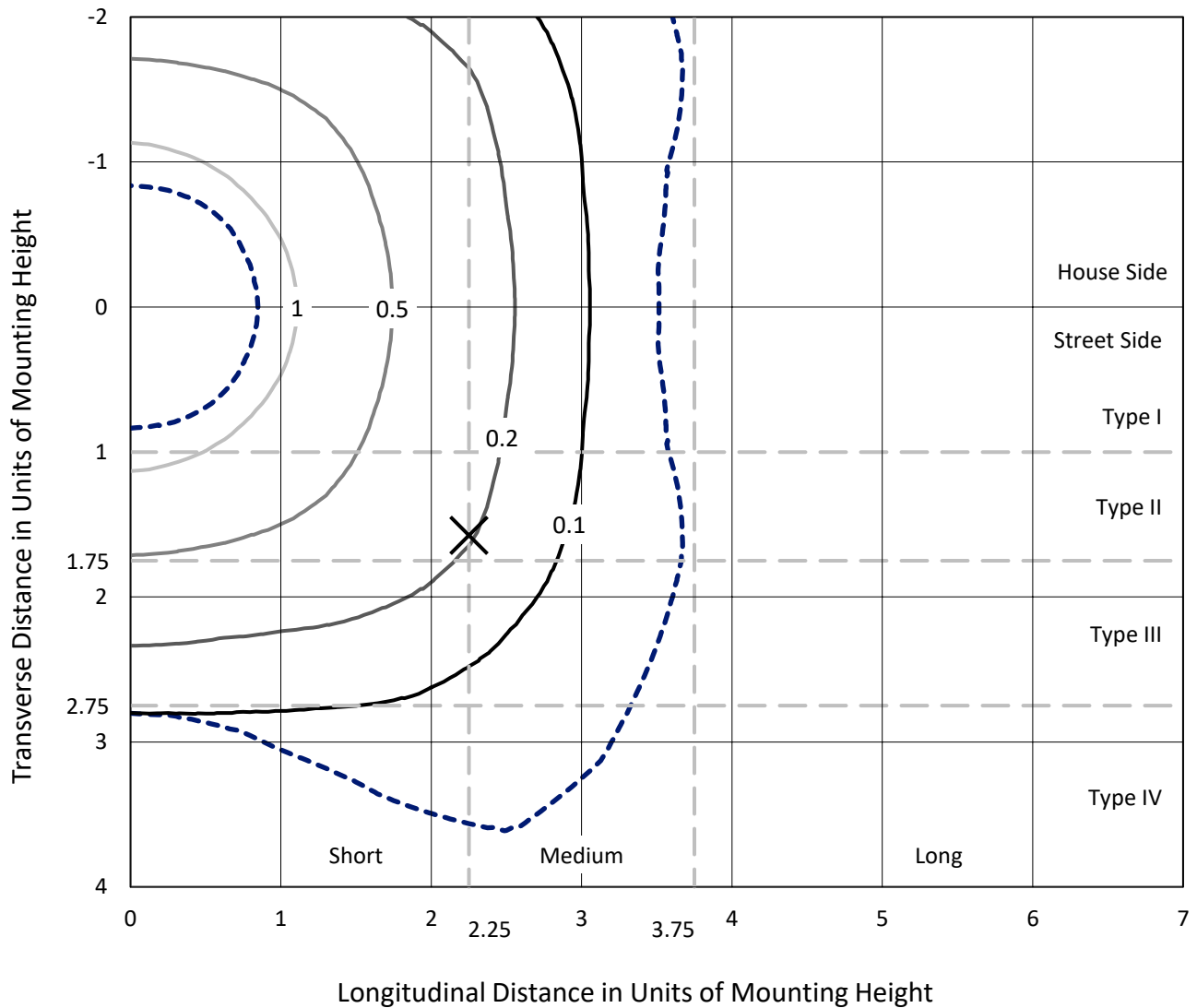
Input Watts (W): 84.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

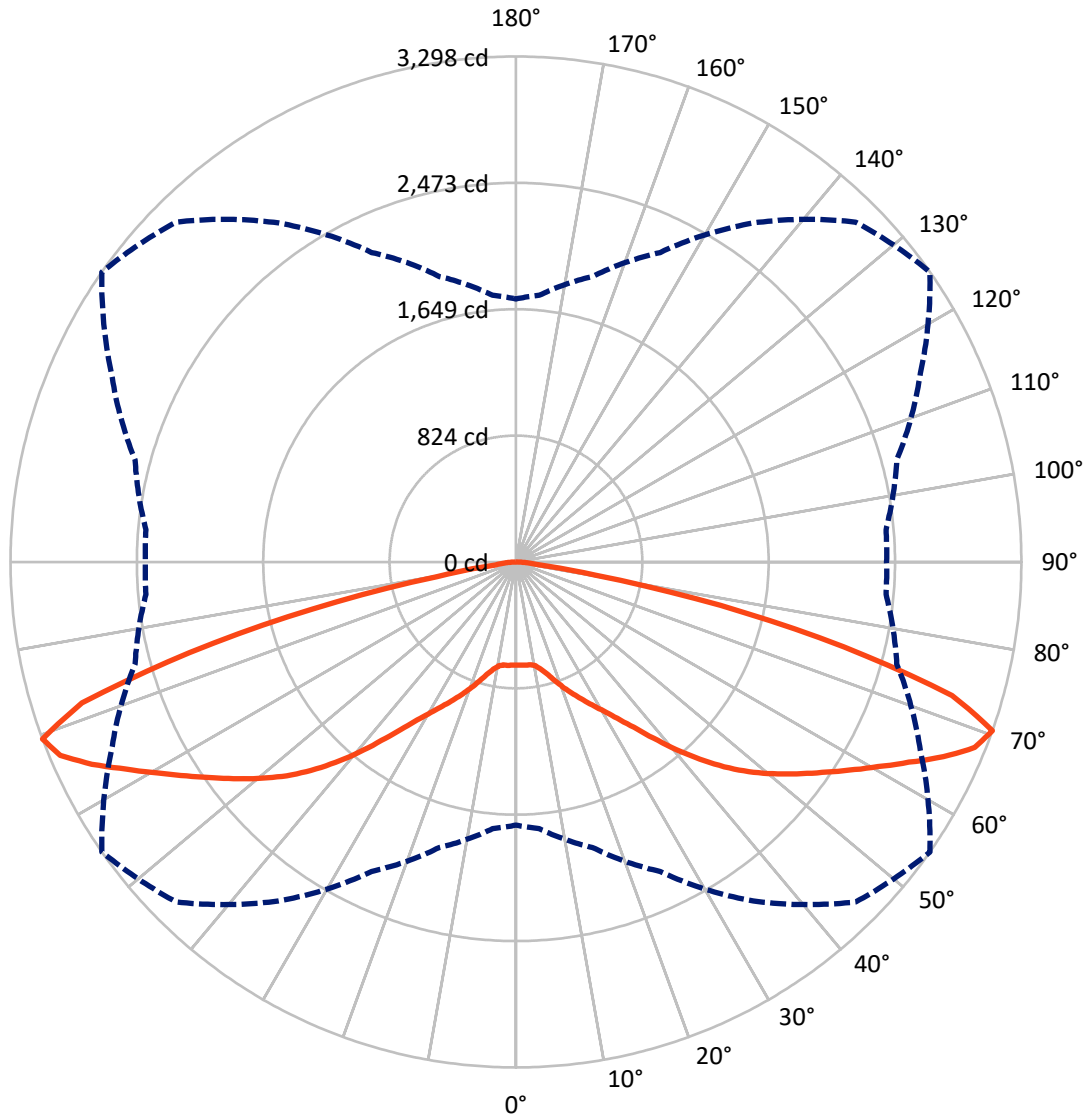
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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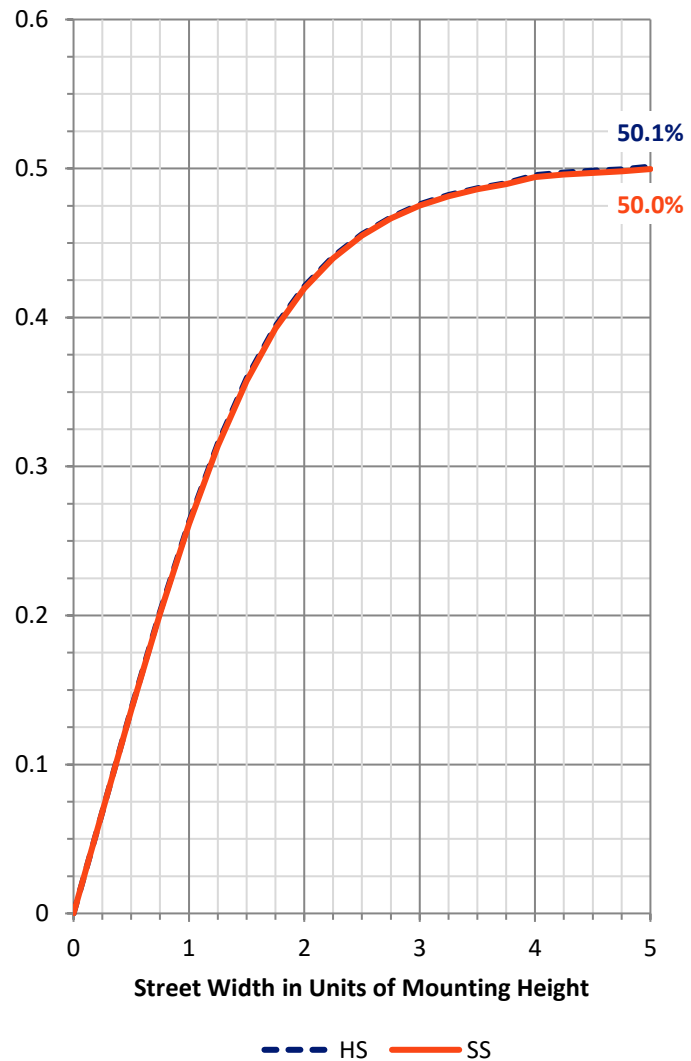
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4828.5	0.0	4828.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4828.5	0.0	4828.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9657.0	0.0	9657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	0.7
10°-20°	221.2	2.3
20°-30°	459.6	4.8
30°-40°	848.8	8.8
40°-50°	1491.2	15.4
50°-60°	2150.7	22.3
60°-70°	2632.2	27.3
70°-80°	1674.9	17.3
80°-90°	113.3	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°	9657.0	100.0
0°-180°	9657.0	100.0

Coefficient of Utilization

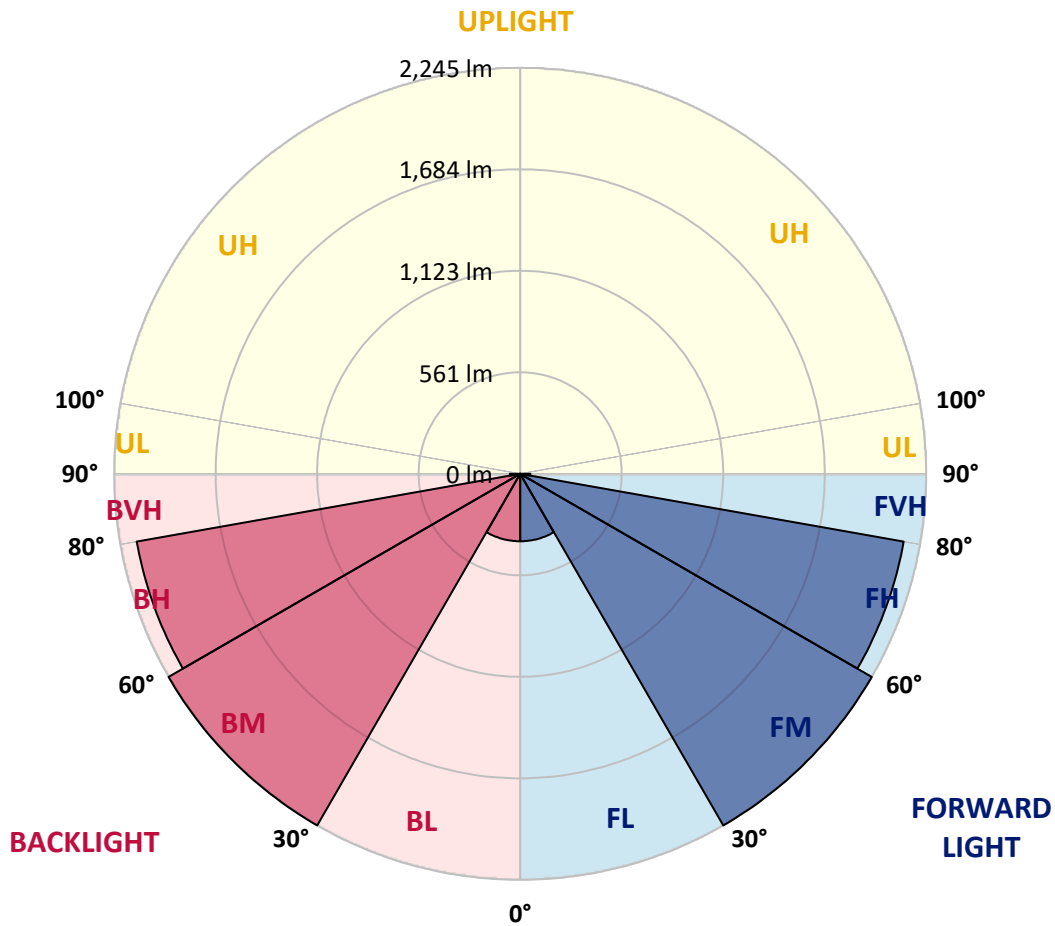


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.9	3.9			
FM (30°-60°)	2245.4	23.3			
FH (60°-80°)	2153.6	22.3			G2/5000
FVH (80°-90°)	56.7	0.6			G1/100
BL (0°-30°)	372.9	3.9	B1/500		
BM (30°-60°)	2245.4	23.3	B2/2500		
BH (60°-80°)	2153.6	22.3	B3/2500		G2/5000
BVH (80°-90°)	56.7	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°	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2	673.2
2.5°	682.2	682.2	680.4	680.4	676.8	675.0	673.2	673.2	671.4	671.4	669.6
5°	685.8	685.8	685.8	684.0	682.2	680.4	676.8	673.2	671.4	669.6	667.8
7.5°	687.5	687.5	685.8	685.8	684.0	682.2	676.8	671.4	669.6	667.8	667.8
10°	701.9	700.1	698.3	694.7	694.7	694.7	687.5	682.2	680.4	680.4	680.4
12.5°	736.0	734.2	730.6	725.2	725.2	727.0	716.3	709.1	709.1	707.3	707.3
15°	786.3	784.5	780.9	771.9	770.1	773.7	757.6	750.4	750.4	750.4	748.6
17.5°	841.9	838.3	833.0	825.8	825.8	825.8	809.6	800.6	795.3	795.3	793.5
20°	888.6	886.8	886.8	885.0	890.4	890.4	868.9	854.5	841.9	834.7	833.0
22.5°	929.9	928.1	931.7	938.9	949.6	953.2	928.1	906.6	886.8	872.4	868.9
25°	985.5	983.7	982.0	992.7	1010.7	1016.1	989.1	962.2	942.5	935.3	931.7
27.5°	1044.8	1046.6	1048.4	1059.1	1073.5	1082.5	1055.6	1030.4	1014.3	1003.5	999.9
30°	1111.2	1114.8	1120.2	1136.3	1147.1	1150.7	1127.4	1109.4	1095.0	1086.1	1080.7
32.5°	1195.6	1202.8	1209.9	1224.3	1229.7	1226.1	1215.3	1202.8	1192.0	1179.4	1177.6
35°	1321.2	1328.4	1326.6	1332.0	1333.8	1330.2	1324.8	1317.6	1312.3	1296.1	1294.3
37.5°	1479.2	1486.4	1475.6	1470.2	1457.7	1459.5	1457.7	1463.1	1464.8	1448.7	1446.9
40°	1639.0	1646.2	1631.8	1617.4	1604.9	1599.5	1608.5	1626.4	1626.4	1615.6	1615.6
42.5°	1809.5	1814.9	1791.6	1773.6	1757.5	1753.9	1759.3	1780.8	1786.2	1784.4	1784.4
45°	1980.1	1976.5	1946.0	1928.0	1913.6	1904.7	1906.5	1922.6	1933.4	1938.8	1938.8
47.5°	2111.1	2105.7	2080.6	2066.2	2057.3	2044.7	2044.7	2053.7	2059.0	2060.8	2060.8
50°	2215.2	2209.8	2184.7	2182.9	2182.9	2177.5	2172.1	2170.3	2166.8	2168.6	2168.6
52.5°	2305.0	2297.8	2279.8	2283.4	2299.6	2303.2	2296.0	2281.6	2267.3	2261.9	2263.7
55°	2401.9	2391.1	2376.8	2387.6	2419.9	2434.2	2423.5	2394.7	2369.6	2353.5	2353.5
57.5°	2479.1	2466.5	2466.5	2497.1	2556.3	2585.0	2561.7	2507.8	2464.8	2446.8	2448.6
60°	2425.3	2414.5	2457.6	2592.2	2703.5	2752.0	2712.5	2617.3	2547.3	2525.8	2529.4
62.5°	2319.3	2312.2	2366.0	2574.3	2836.3	2936.9	2877.6	2741.2	2637.1	2612.0	2612.0
65°	2163.2	2161.4	2236.8	2493.5	2866.9	3114.6	3064.3	2875.8	2741.2	2707.1	2714.3
67.5°	2001.6	2001.6	2069.8	2355.2	2831.0	3190.0	3229.5	2997.9	2791.5	2707.1	2708.9
70°	1716.2	1746.7	1928.0	2227.8	2699.9	3136.1	3297.7	2911.7	2572.5	2423.5	2418.1
72.5°	1130.9	1170.4	1531.3	2005.2	2570.7	2940.5	2976.4	2558.1	2136.2	1962.1	1953.1
75°	682.2	716.3	992.7	1565.4	2260.1	2367.8	2209.8	2005.2	1595.9	1459.5	1459.5
77.5°	201.1	224.4	457.8	992.7	1563.6	1556.4	1362.5	1181.2	944.3	802.4	813.2
80°	118.5	122.1	149.0	452.4	648.1	682.2	526.0	328.5	328.5	244.1	237.0
82.5°	91.6	91.6	95.1	113.1	156.2	174.1	132.8	113.1	129.3	109.5	104.1
85°	64.6	64.6	64.6	66.4	68.2	70.0	73.6	75.4	82.6	68.2	64.6
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)