

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: P800255

Luminaire Tested: **ARCH2-90-727-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800255
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: ARCH2-90-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11491 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 93.7
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

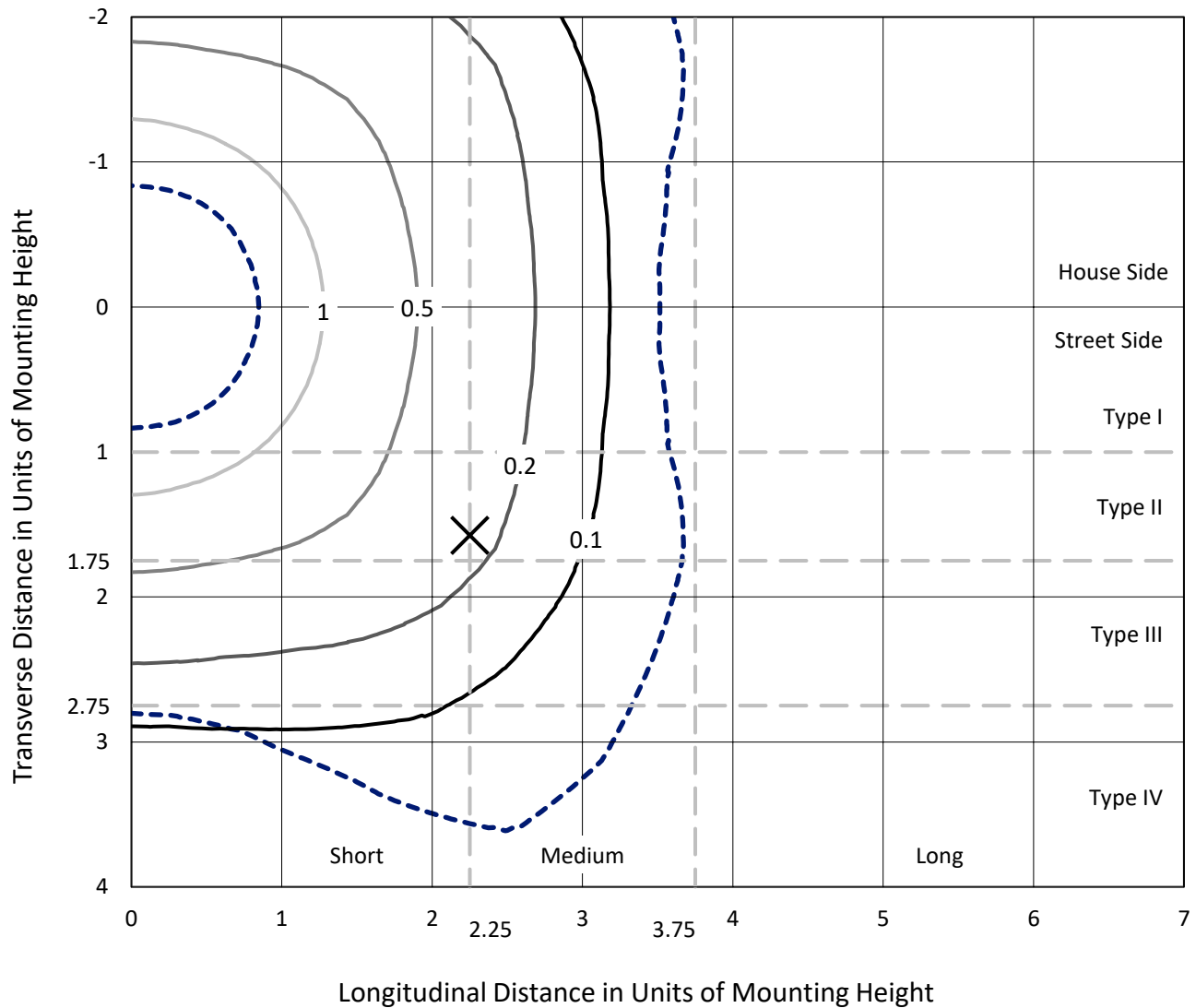


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Iso-Footcandle Lines of Horizontal Illumination

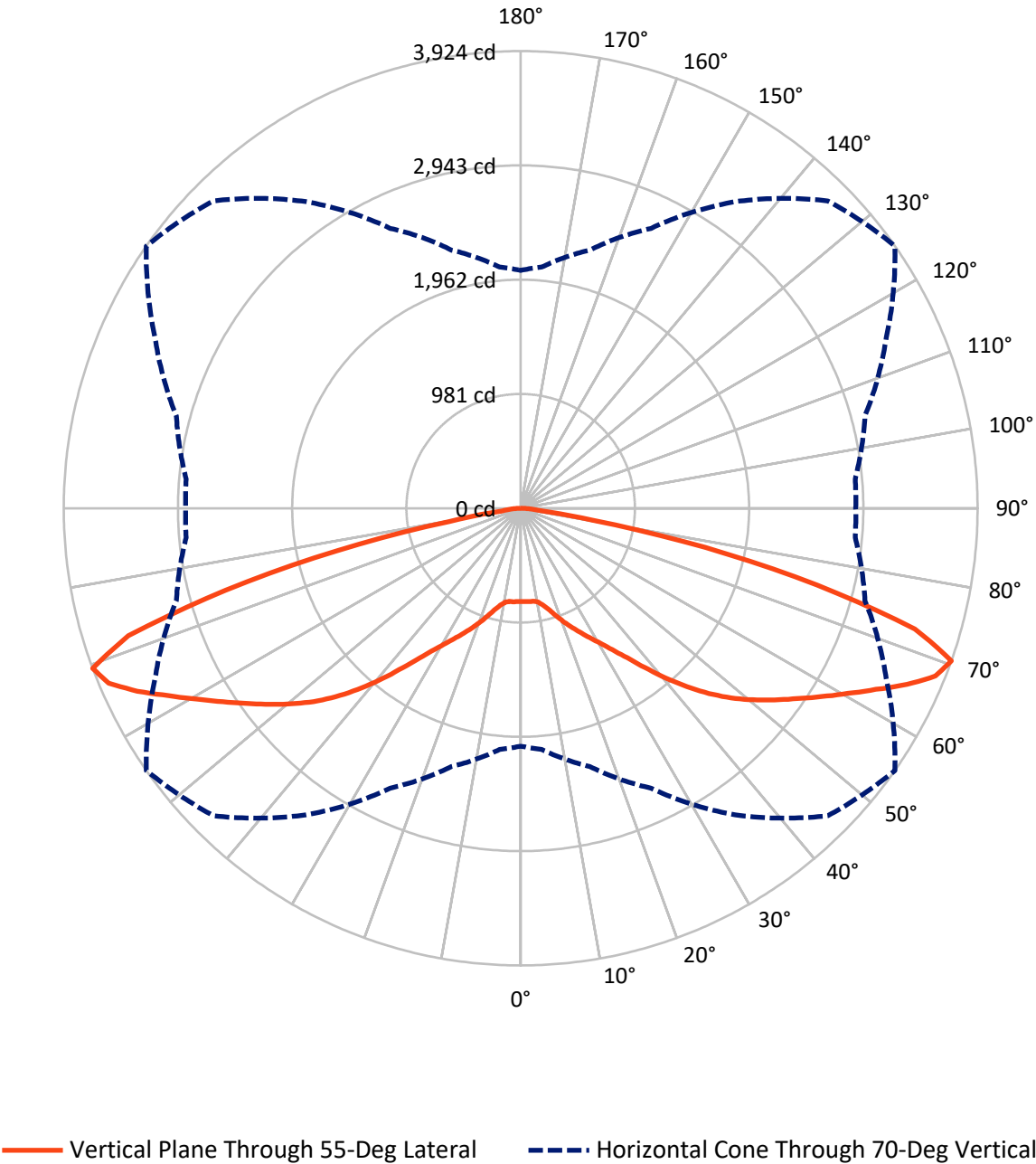
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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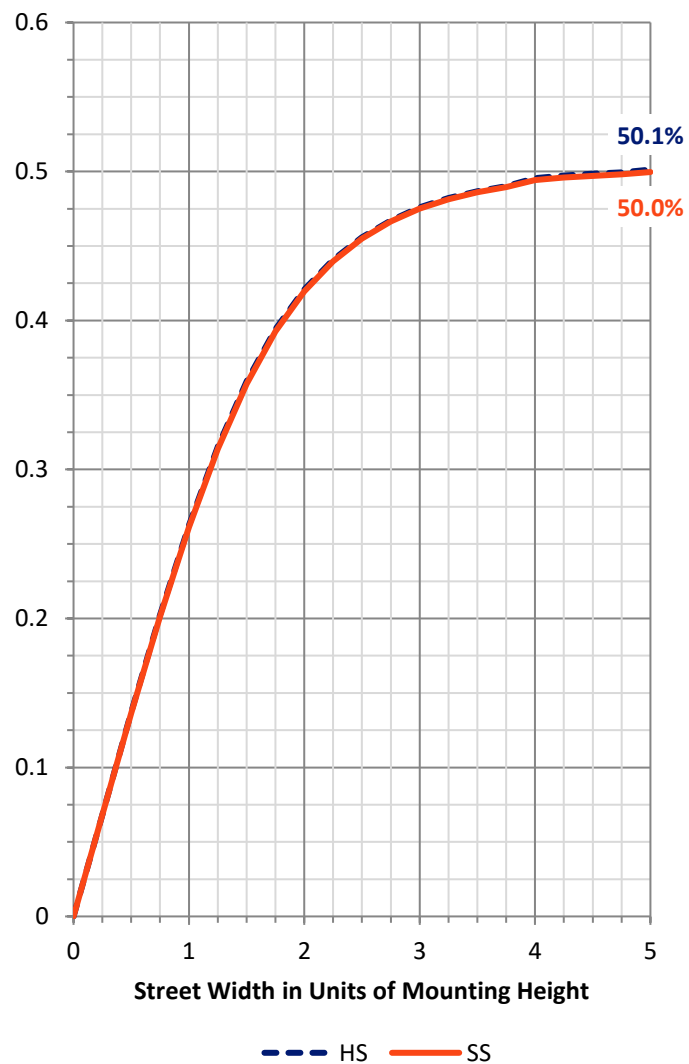
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5745.5	0.0	5745.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5745.5	0.0	5745.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11491.0	0.0	11491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	0.7
10°-20°	263.2	2.3
20°-30°	546.9	4.8
30°-40°	1010.0	8.8
40°-50°	1774.4	15.4
50°-60°	2559.1	22.3
60°-70°	3132.1	27.3
70°-80°	1993.0	17.3
80°-90°	134.9	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°	11491.0	100.0
0°-180°	11491.0	100.0

Coefficient of Utilization



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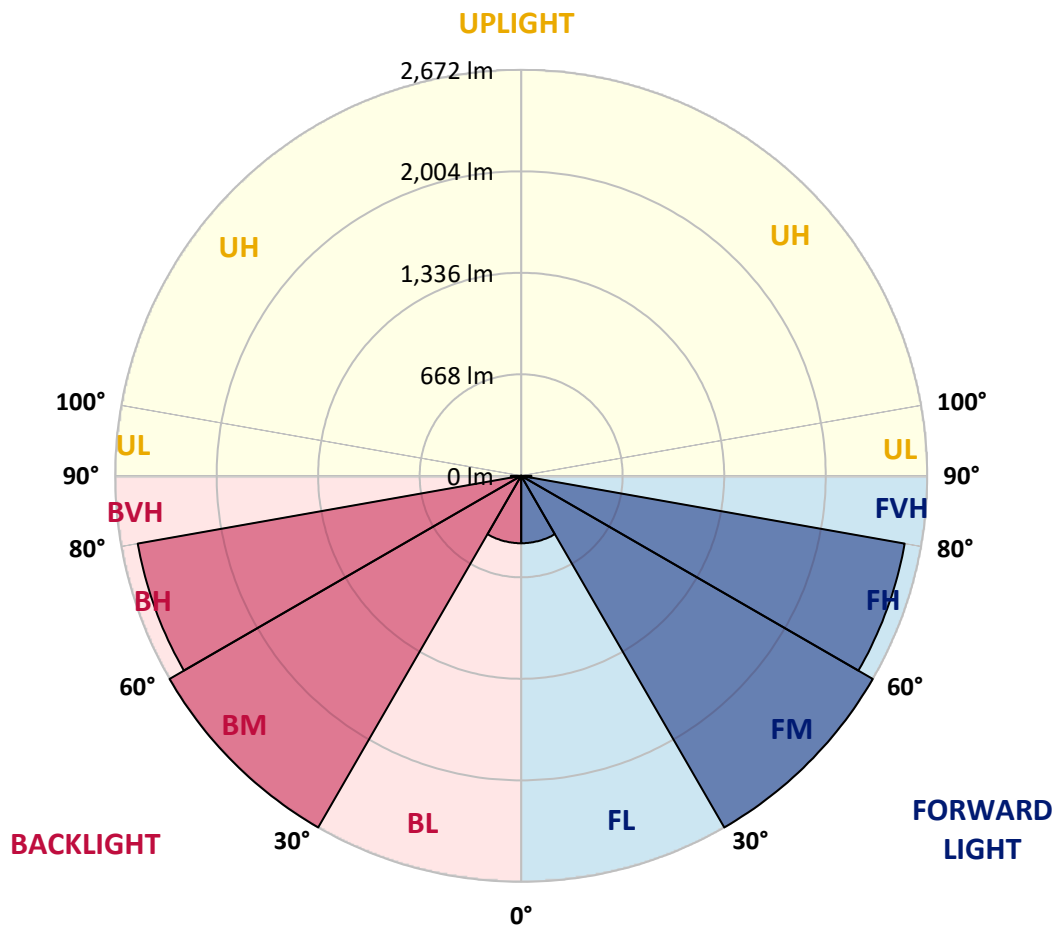
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.7	3.9			
FM	(30°-60°)	2671.8	23.3			
FH	(60°-80°)	2562.6	22.3			G2/5000
FVH	(80°-90°)	67.4	0.6			G1/100
BL	(0°-30°)	443.7	3.9	B1/500		
BM	(30°-60°)	2671.8	23.3	B3/5000		
BH	(60°-80°)	2562.6	22.3	B4/5000		G2/5000
BVH	(80°-90°)	67.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	801.0	801.0	801.0	801.0	801.0	801.0	801.0	801.0	801.0	801.0	801.0
2.5°	811.7	811.7	809.6	809.6	805.3	803.2	801.0	801.0	798.9	798.9	796.8
5°	816.0	816.0	816.0	813.8	811.7	809.6	805.3	801.0	798.9	796.8	794.6
7.5°	818.1	818.1	816.0	816.0	813.8	811.7	805.3	798.9	796.8	794.6	794.6
10°	835.2	833.1	830.9	826.7	826.7	826.7	818.1	811.7	809.6	809.6	809.6
12.5°	875.8	873.7	869.4	863.0	863.0	865.1	852.3	843.8	843.8	841.6	841.6
15°	935.6	933.5	929.2	918.5	916.4	920.7	901.4	892.9	892.9	892.9	890.7
17.5°	1001.8	997.6	991.1	982.6	982.6	982.6	963.4	952.7	946.3	946.3	944.1
20°	1057.4	1055.2	1055.2	1053.1	1059.5	1059.5	1033.9	1016.8	1001.8	993.3	991.1
22.5°	1106.5	1104.4	1108.6	1117.2	1130.0	1134.3	1104.4	1078.7	1055.2	1038.1	1033.9
25°	1172.7	1170.6	1168.4	1181.3	1202.6	1209.0	1177.0	1144.9	1121.4	1112.9	1108.6
27.5°	1243.2	1245.3	1247.5	1260.3	1277.4	1288.1	1256.0	1226.1	1206.9	1194.1	1189.8
30°	1322.2	1326.5	1332.9	1352.1	1365.0	1369.2	1341.5	1320.1	1303.0	1292.3	1285.9
32.5°	1422.6	1431.2	1439.7	1456.8	1463.2	1458.9	1446.1	1431.2	1418.4	1403.4	1401.3
35°	1572.2	1580.7	1578.6	1585.0	1587.1	1582.8	1576.4	1567.9	1561.5	1542.3	1540.1
37.5°	1760.1	1768.7	1755.9	1749.5	1734.5	1736.6	1734.5	1740.9	1743.0	1723.8	1721.7
40°	1950.2	1958.8	1941.7	1924.6	1909.7	1903.2	1913.9	1935.3	1935.3	1922.5	1922.5
42.5°	2153.2	2159.6	2131.8	2110.4	2091.2	2087.0	2093.4	2119.0	2125.4	2123.3	2123.3
45°	2356.1	2351.8	2315.5	2294.2	2277.1	2266.4	2268.5	2287.7	2300.6	2307.0	2307.0
47.5°	2512.0	2505.6	2475.7	2458.6	2448.0	2433.0	2433.0	2443.7	2450.1	2452.2	2452.2
50°	2635.9	2629.5	2599.6	2597.5	2597.5	2591.1	2584.7	2582.5	2578.3	2580.4	2580.4
52.5°	2742.7	2734.2	2712.8	2717.1	2736.3	2740.6	2732.1	2715.0	2697.9	2691.5	2693.6
55°	2858.1	2845.3	2828.2	2841.0	2879.4	2896.5	2883.7	2849.5	2819.6	2800.4	2800.4
57.5°	2949.9	2935.0	2935.0	2971.3	3041.8	3076.0	3048.2	2984.1	2932.8	2911.5	2913.6
60°	2885.8	2873.0	2924.3	3084.5	3216.9	3274.6	3227.6	3114.4	3031.1	3005.5	3009.7
62.5°	2759.8	2751.3	2815.4	3063.1	3375.0	3494.6	3424.1	3261.8	3137.9	3108.0	3108.0
65°	2574.0	2571.8	2661.6	2967.0	3411.3	3706.1	3646.3	3422.0	3261.8	3221.2	3229.8
67.5°	2381.7	2381.7	2462.9	2802.5	3368.6	3795.8	3842.8	3567.3	3321.6	3221.2	3223.3
70°	2042.1	2078.4	2294.2	2650.9	3212.7	3731.7	3924.0	3464.7	3061.0	2883.7	2877.3
72.5°	1345.7	1392.7	1822.1	2386.0	3058.9	3498.9	3541.6	3043.9	2541.9	2334.7	2324.1
75°	811.7	852.3	1181.3	1862.7	2689.3	2817.5	2629.5	2386.0	1899.0	1736.6	1736.6
77.5°	239.2	267.0	544.7	1181.3	1860.5	1852.0	1621.3	1405.5	1123.6	954.8	967.6
80°	141.0	145.3	177.3	538.3	771.1	811.7	625.9	390.9	390.9	290.5	282.0
82.5°	108.9	108.9	113.2	134.6	185.8	207.2	158.1	134.6	153.8	130.3	123.9
85°	76.9	76.9	76.9	79.0	81.2	83.3	87.6	89.7	98.3	81.2	76.9
87.5°	23.5	25.6	27.8	32.0	38.4	40.6	42.7	38.4	38.4	36.3	34.2
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)