

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: P799231

Luminaire Tested: **ARCH2-100-727-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799231
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: ARCH2-100-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12242 lumens
Efficiency: N/A
Efficacy: 118.5 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): 103.3
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

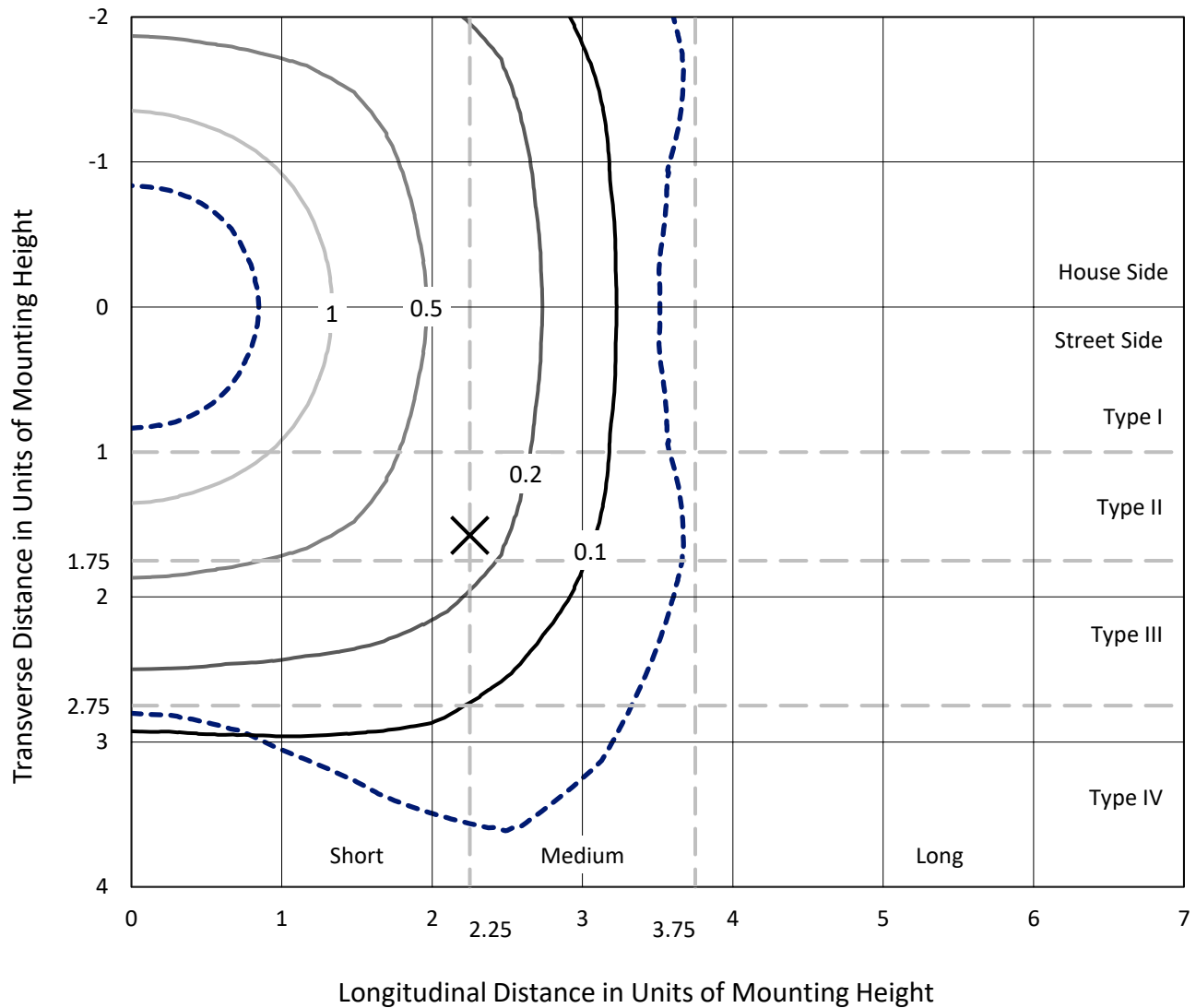


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Iso-Footcandle Lines of Horizontal Illumination

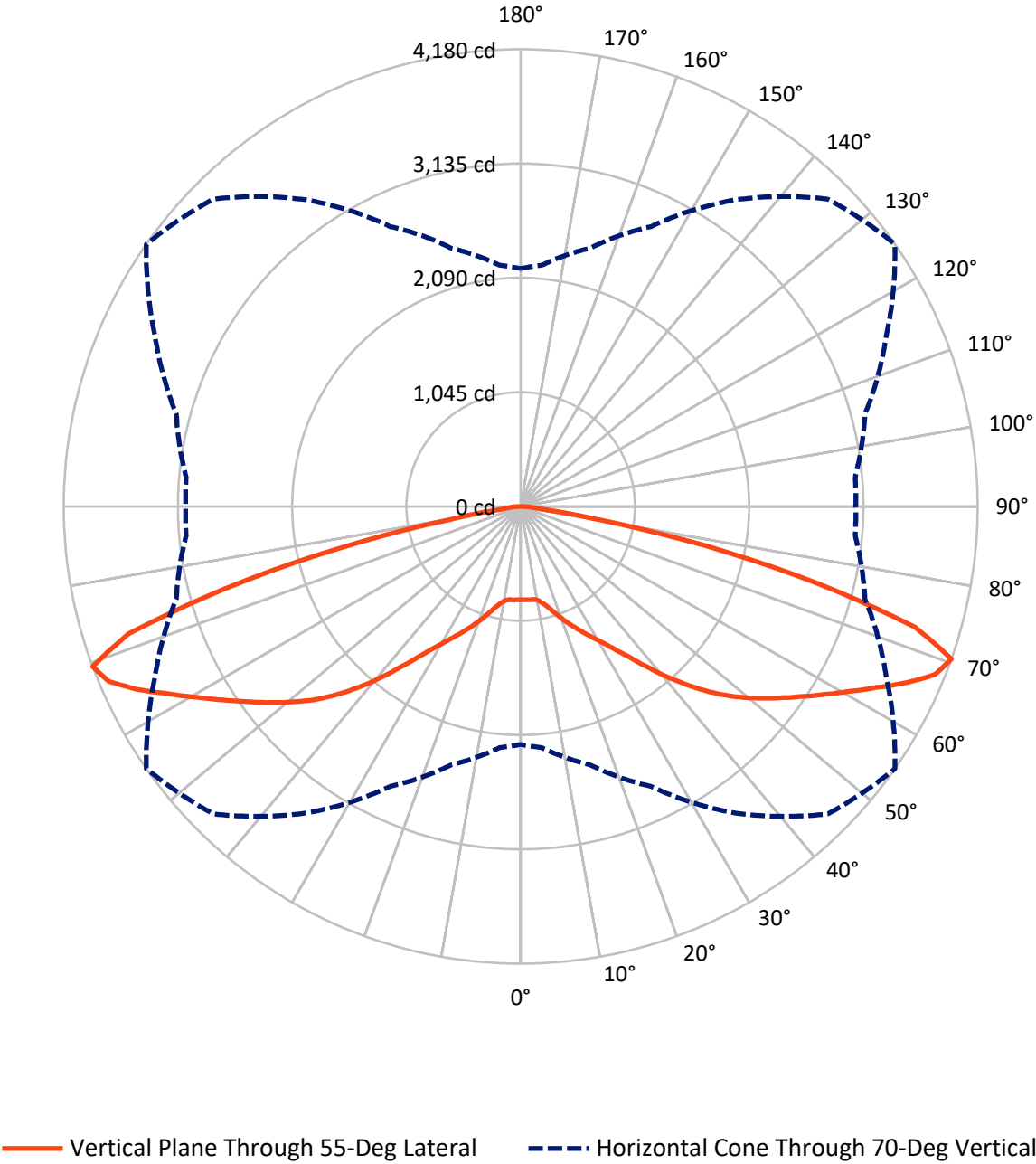
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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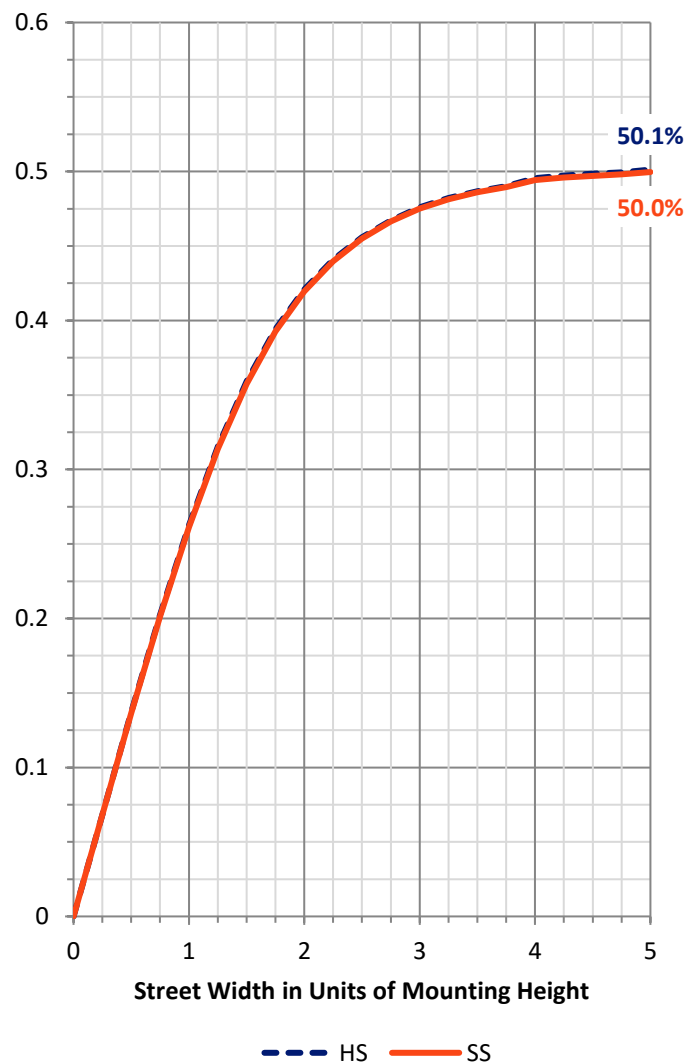
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6121.0	0.0	6121.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6121.0	0.0	6121.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12242.0	0.0	12242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	0.7
10°-20°	280.4	2.3
20°-30°	582.6	4.8
30°-40°	1076.1	8.8
40°-50°	1890.4	15.4
50°-60°	2726.4	22.3
60°-70°	3336.8	27.3
70°-80°	2123.3	17.3
80°-90°	143.7	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°	12242.0	100.0
0°-180°	12242.0	100.0

Coefficient of Utilization



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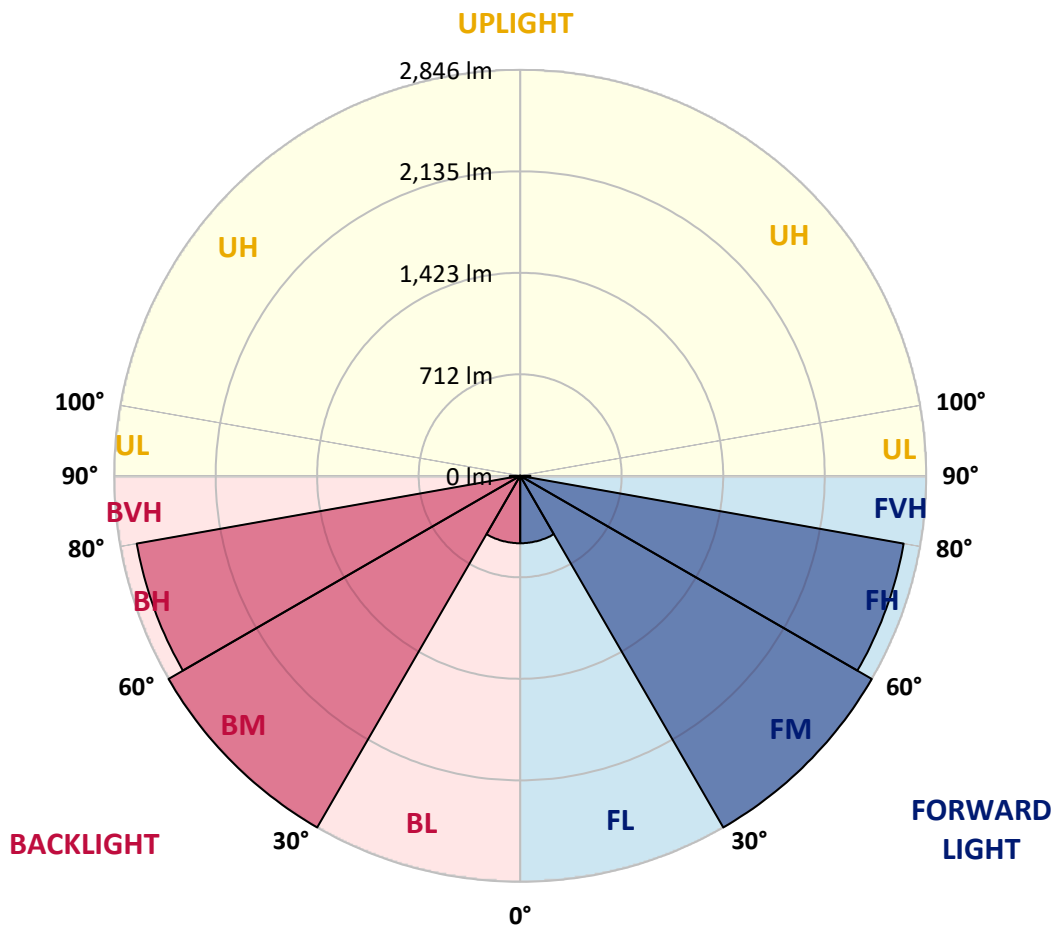
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.7	3.9			
FM	(30°-60°)	2846.4	23.3			
FH	(60°-80°)	2730.0	22.3			G2/5000
FVH	(80°-90°)	71.8	0.6			G1/100
BL	(0°-30°)	472.7	3.9	B1/500		
BM	(30°-60°)	2846.4	23.3	B3/5000		
BH	(60°-80°)	2730.0	22.3	B4/5000		G2/5000
BVH	(80°-90°)	71.8	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°	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4
2.5°	864.8	864.8	862.5	862.5	857.9	855.7	853.4	853.4	851.1	851.1	848.8
5°	869.3	869.3	869.3	867.0	864.8	862.5	857.9	853.4	851.1	848.8	846.6
7.5°	871.6	871.6	869.3	869.3	867.0	864.8	857.9	851.1	848.8	846.6	846.6
10°	889.8	887.5	885.2	880.7	880.7	880.7	871.6	864.8	862.5	862.5	862.5
12.5°	933.0	930.8	926.2	919.4	919.4	921.7	908.0	898.9	898.9	896.6	896.6
15°	996.8	994.5	989.9	978.5	976.3	980.8	960.3	951.2	951.2	951.2	949.0
17.5°	1067.3	1062.7	1055.9	1046.8	1046.8	1046.8	1026.3	1015.0	1008.1	1008.1	1005.9
20°	1126.5	1124.2	1124.2	1121.9	1128.7	1128.7	1101.4	1083.2	1067.3	1058.2	1055.9
22.5°	1178.8	1176.5	1181.1	1190.2	1203.8	1208.4	1176.5	1149.2	1124.2	1106.0	1101.4
25°	1249.4	1247.1	1244.8	1258.5	1281.2	1288.0	1253.9	1219.8	1194.7	1185.6	1181.1
27.5°	1324.5	1326.7	1329.0	1342.7	1360.9	1372.2	1338.1	1306.2	1285.8	1272.1	1267.6
30°	1408.7	1413.2	1420.0	1440.5	1454.2	1458.7	1429.1	1406.4	1388.2	1376.8	1370.0
32.5°	1515.6	1524.7	1533.8	1552.0	1558.8	1554.3	1540.6	1524.7	1511.1	1495.1	1492.9
35°	1674.9	1684.0	1681.7	1688.6	1690.8	1686.3	1679.5	1670.4	1663.5	1643.0	1640.8
37.5°	1875.2	1884.3	1870.6	1863.8	1847.9	1850.1	1847.9	1854.7	1857.0	1836.5	1834.2
40°	2077.7	2086.8	2068.6	2050.4	2034.5	2027.6	2039.0	2061.8	2061.8	2048.1	2048.1
42.5°	2293.9	2300.7	2271.1	2248.4	2227.9	2223.3	2230.2	2257.5	2264.3	2262.0	2262.0
45°	2510.1	2505.5	2466.8	2444.1	2425.9	2414.5	2416.8	2437.3	2450.9	2457.7	2457.7
47.5°	2676.2	2669.4	2637.5	2619.3	2607.9	2592.0	2592.0	2603.4	2610.2	2612.5	2612.5
50°	2808.2	2801.4	2769.5	2767.2	2767.2	2760.4	2753.6	2751.3	2746.8	2749.0	2749.0
52.5°	2922.0	2912.9	2890.1	2894.7	2915.2	2919.7	2910.6	2892.4	2874.2	2867.4	2869.6
55°	3044.9	3031.2	3013.0	3026.7	3067.6	3085.8	3072.2	3035.8	3003.9	2983.4	2983.4
57.5°	3142.7	3126.8	3126.8	3165.5	3240.6	3277.0	3247.4	3179.1	3124.5	3101.8	3104.0
60°	3074.5	3060.8	3115.4	3286.1	3427.2	3488.6	3438.6	3318.0	3229.2	3201.9	3206.4
62.5°	2940.2	2931.1	2999.4	3263.3	3595.6	3723.0	3647.9	3475.0	3343.0	3311.1	3311.1
65°	2742.2	2739.9	2835.5	3160.9	3634.3	3948.3	3884.6	3645.7	3475.0	3431.7	3440.8
67.5°	2537.4	2537.4	2623.9	2985.7	3588.8	4043.9	4094.0	3800.4	3538.7	3431.7	3434.0
70°	2175.6	2214.2	2444.1	2824.1	3422.6	3975.6	4180.4	3691.2	3261.1	3072.2	3065.4
72.5°	1433.7	1483.7	1941.2	2541.9	3258.8	3727.6	3773.1	3242.9	2708.1	2487.3	2475.9
75°	864.8	908.0	1258.5	1984.4	2865.1	3001.6	2801.4	2541.9	2023.1	1850.1	1850.1
77.5°	254.9	284.5	580.3	1258.5	1982.1	1973.0	1727.2	1497.4	1197.0	1017.2	1030.9
80°	150.2	154.7	188.9	573.5	821.5	864.8	666.8	416.5	416.5	309.5	300.4
82.5°	116.1	116.1	120.6	143.4	198.0	220.7	168.4	143.4	163.8	138.8	132.0
85°	81.9	81.9	81.9	84.2	86.5	88.8	93.3	95.6	104.7	86.5	81.9
87.5°	25.0	27.3	29.6	34.1	41.0	43.2	45.5	41.0	41.0	38.7	36.4
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)