

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: P799359

Luminaire Tested: **ARCH2-110-727-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799359
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: ARCH2-110-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12682 lumens
Efficiency: N/A
Efficacy: 115.8 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): 109.5
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

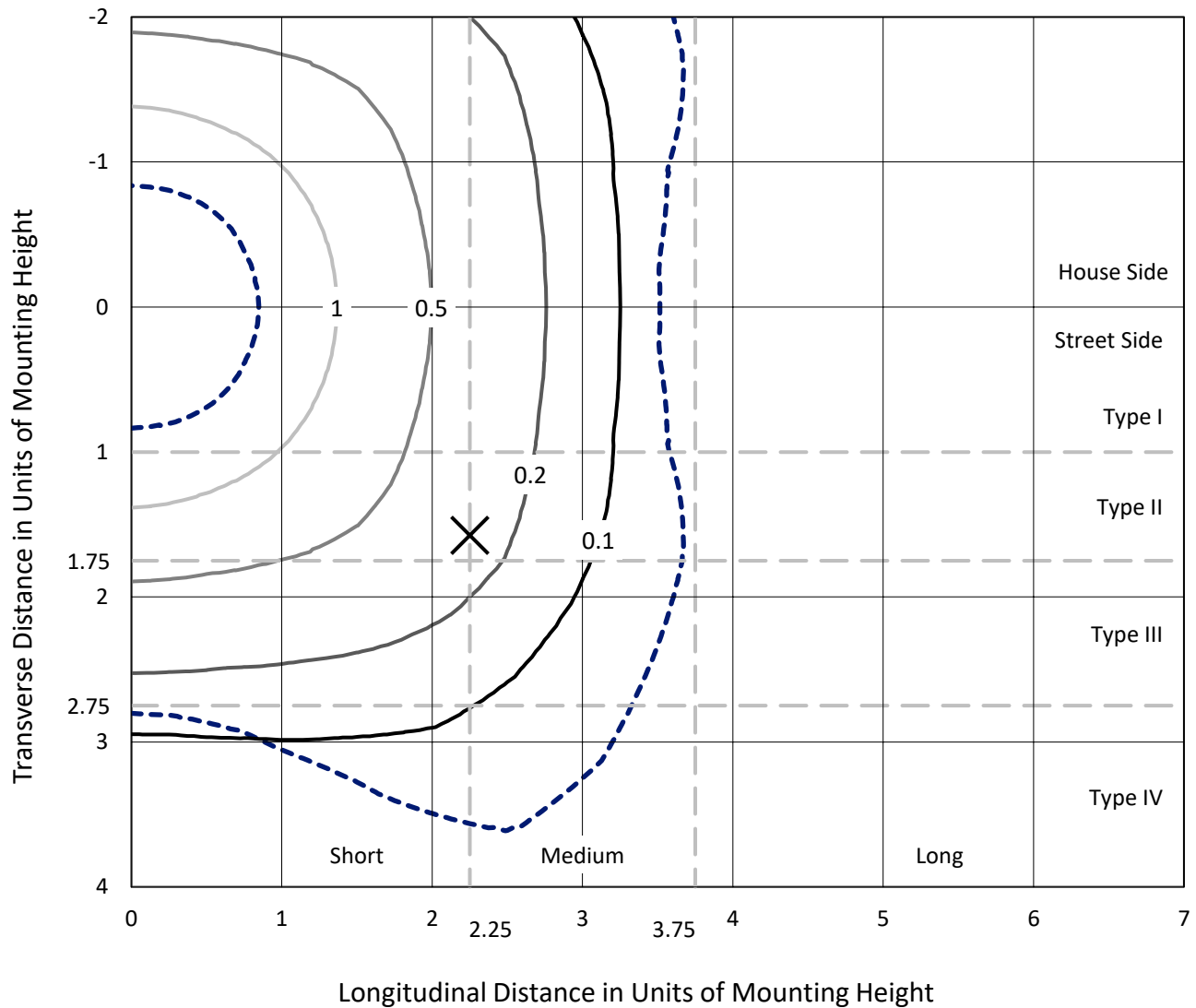


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Iso-Footcandle Lines of Horizontal Illumination

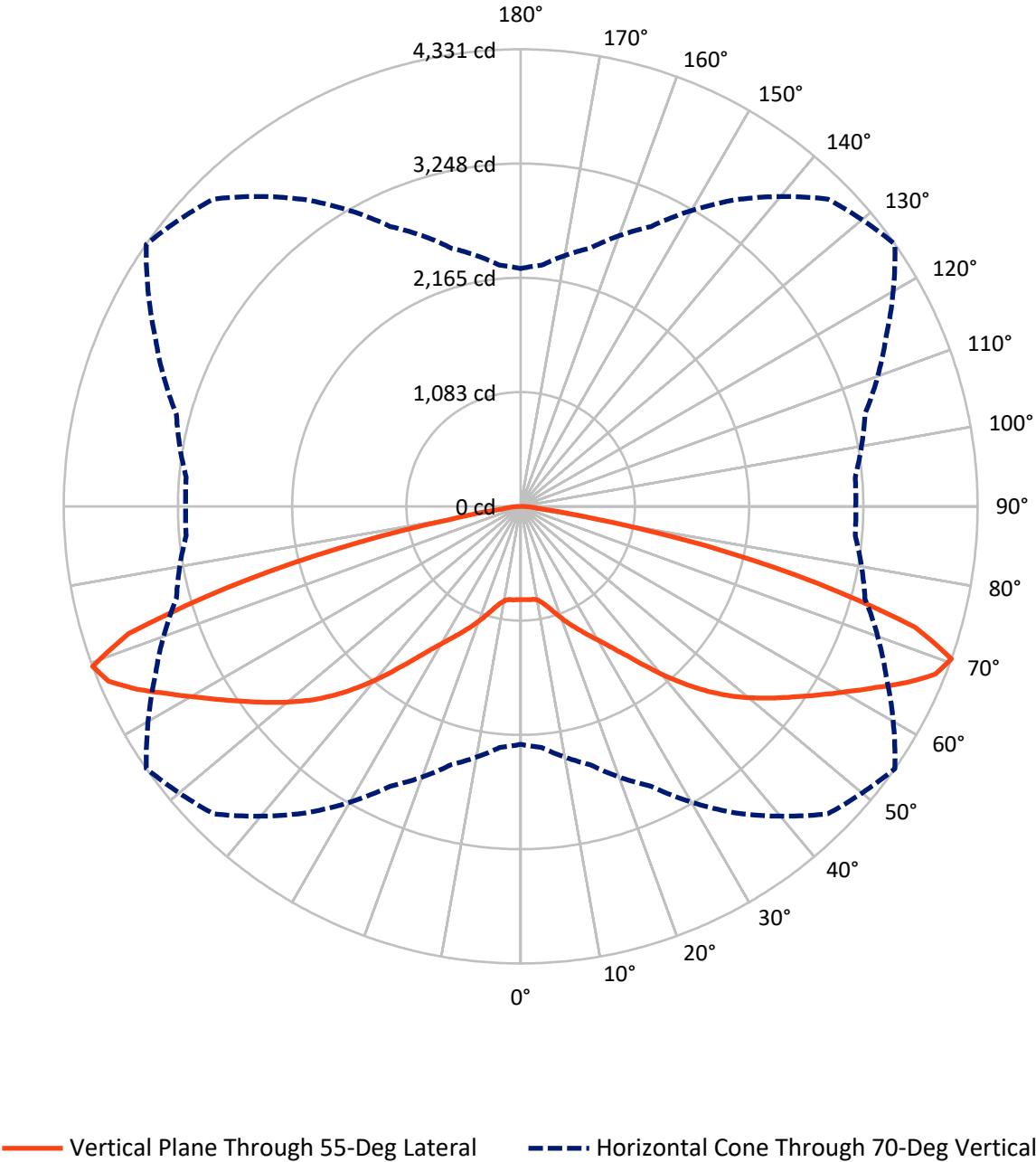
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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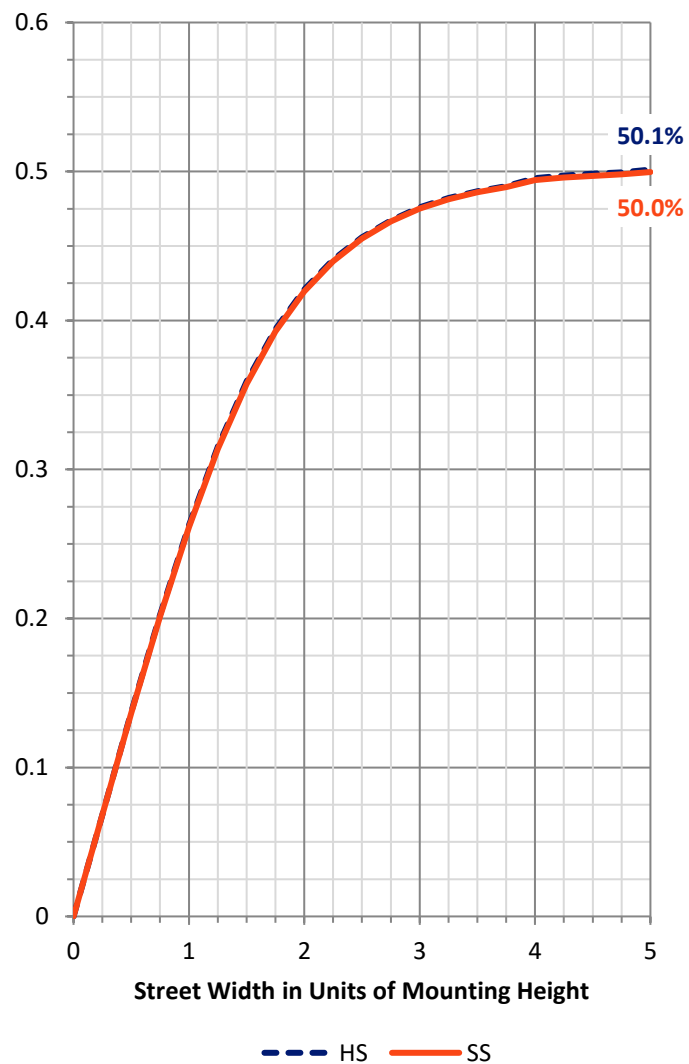
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6341.0	0.0	6341.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6341.0	0.0	6341.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12682.0	0.0	12682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	0.7
10°-20°	290.5	2.3
20°-30°	603.6	4.8
30°-40°	1114.7	8.8
40°-50°	1958.3	15.4
50°-60°	2824.4	22.3
60°-70°	3456.7	27.3
70°-80°	2199.6	17.3
80°-90°	148.8	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°	12682.0	100.0
0°-180°	12682.0	100.0

Coefficient of Utilization



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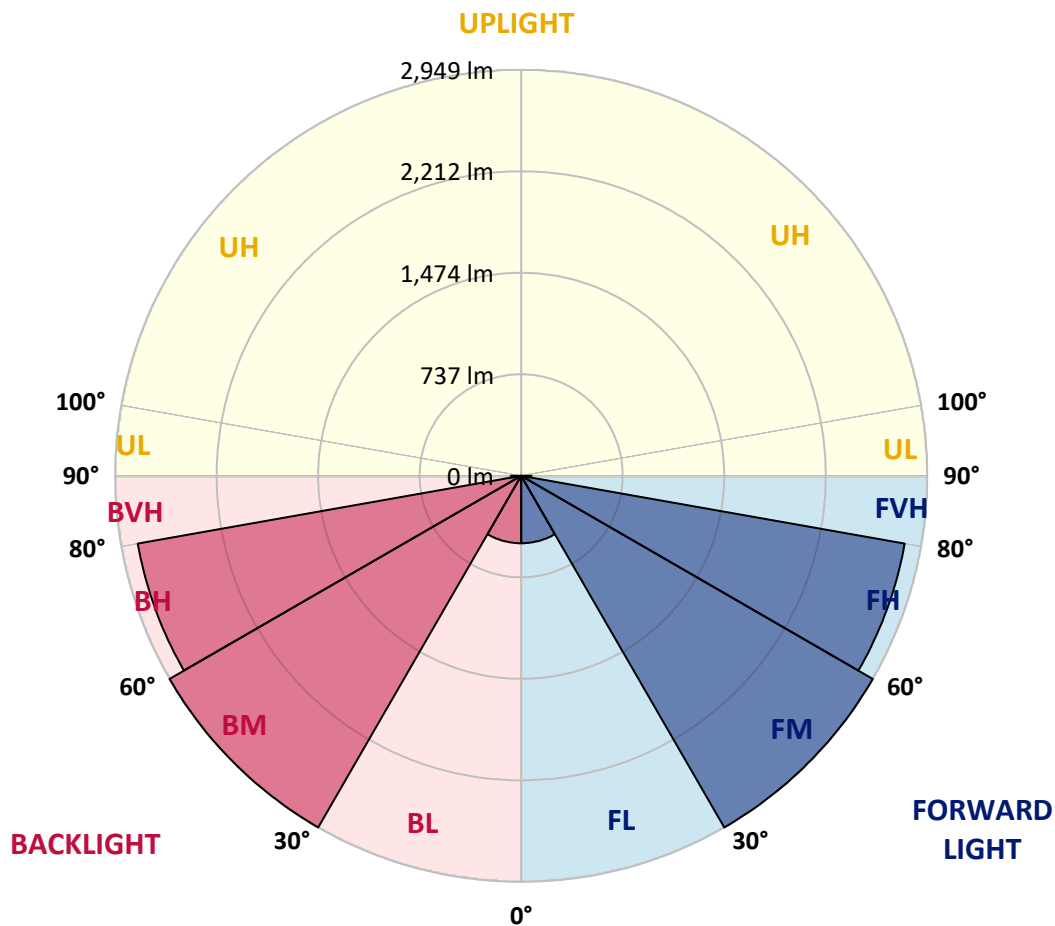
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	489.7	3.9			
FM	(30°-60°)	2948.7	23.3			
FH	(60°-80°)	2828.2	22.3			G2/5000
FVH	(80°-90°)	74.4	0.6			G1/100
BL	(0°-30°)	489.7	3.9	B1/500		
BM	(30°-60°)	2948.7	23.3	B3/5000		
BH	(60°-80°)	2828.2	22.3	B4/5000		G2/5000
BVH	(80°-90°)	74.4	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°	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1	884.1
2.5°	895.8	895.8	893.5	893.5	888.8	886.4	884.1	884.1	881.7	881.7	879.3
5°	900.6	900.6	900.6	898.2	895.8	893.5	888.8	884.1	881.7	879.3	877.0
7.5°	902.9	902.9	900.6	900.6	898.2	895.8	888.8	881.7	879.3	877.0	877.0
10°	921.8	919.4	917.1	912.3	912.3	912.3	902.9	895.8	893.5	893.5	893.5
12.5°	966.6	964.2	959.5	952.4	952.4	954.8	940.6	931.2	931.2	928.8	928.8
15°	1032.6	1030.2	1025.5	1013.7	1011.4	1016.1	994.9	985.4	985.4	985.4	983.1
17.5°	1105.7	1100.9	1093.9	1084.4	1084.4	1084.4	1063.2	1051.4	1044.4	1044.4	1042.0
20°	1167.0	1164.6	1164.6	1162.2	1169.3	1169.3	1141.0	1122.2	1105.7	1096.2	1093.9
22.5°	1221.2	1218.8	1223.5	1233.0	1247.1	1251.8	1218.8	1190.5	1164.6	1145.7	1141.0
25°	1294.3	1291.9	1289.5	1303.7	1327.3	1334.3	1299.0	1263.6	1237.7	1228.2	1223.5
27.5°	1372.1	1374.4	1376.8	1390.9	1409.8	1421.6	1386.2	1353.2	1332.0	1317.8	1313.1
30°	1459.3	1464.0	1471.1	1492.3	1506.4	1511.1	1480.5	1456.9	1438.1	1426.3	1419.2
32.5°	1570.1	1579.5	1588.9	1607.8	1614.9	1610.2	1596.0	1579.5	1565.4	1548.9	1546.5
35°	1735.1	1744.5	1742.2	1749.3	1751.6	1746.9	1739.8	1730.4	1723.3	1702.1	1699.7
37.5°	1942.6	1952.0	1937.8	1930.8	1914.3	1916.6	1914.3	1921.3	1923.7	1902.5	1900.1
40°	2152.4	2161.8	2142.9	2124.1	2107.6	2100.5	2112.3	2135.9	2135.9	2121.7	2121.7
42.5°	2376.3	2383.4	2352.8	2329.2	2308.0	2303.3	2310.3	2338.6	2345.7	2343.3	2343.3
45°	2600.3	2595.6	2555.5	2531.9	2513.1	2501.3	2503.6	2524.9	2539.0	2546.1	2546.1
47.5°	2772.4	2765.3	2732.3	2713.5	2701.7	2685.2	2685.2	2697.0	2704.0	2706.4	2706.4
50°	2909.1	2902.1	2869.1	2866.7	2866.7	2859.6	2852.6	2850.2	2845.5	2847.8	2847.8
52.5°	3027.0	3017.6	2994.0	2998.7	3019.9	3024.6	3015.2	2996.4	2977.5	2970.4	2972.8
55°	3154.3	3140.2	3121.3	3135.4	3177.9	3196.7	3182.6	3144.9	3111.9	3090.7	3090.7
57.5°	3255.7	3239.2	3239.2	3279.3	3357.1	3394.8	3364.1	3293.4	3236.8	3213.2	3215.6
60°	3185.0	3170.8	3227.4	3404.2	3550.4	3614.0	3562.2	3437.2	3345.3	3317.0	3321.7
62.5°	3045.9	3036.4	3107.2	3380.6	3724.8	3856.8	3779.0	3599.9	3463.1	3430.1	3430.1
65°	2840.8	2838.4	2937.4	3274.5	3764.9	4090.2	4024.2	3776.7	3599.9	3555.1	3564.5
67.5°	2628.6	2628.6	2718.2	3093.0	3717.7	4189.2	4241.1	3937.0	3665.9	3555.1	3557.4
70°	2253.8	2293.8	2531.9	2925.6	3545.7	4118.5	4330.7	3823.8	3378.3	3182.6	3175.5
72.5°	1485.2	1537.1	2010.9	2633.3	3375.9	3861.6	3908.7	3359.4	2805.4	2576.7	2564.9
75°	895.8	940.6	1303.7	2055.7	2968.1	3109.5	2902.1	2633.3	2095.8	1916.6	1916.6
77.5°	264.0	294.7	601.2	1303.7	2053.4	2043.9	1789.3	1551.2	1240.0	1053.8	1067.9
80°	155.6	160.3	195.7	594.1	851.1	895.8	690.7	431.4	431.4	320.6	311.2
82.5°	120.2	120.2	124.9	148.5	205.1	228.7	174.5	148.5	169.7	143.8	136.7
85°	84.9	84.9	84.9	87.2	89.6	91.9	96.7	99.0	108.4	89.6	84.9
87.5°	25.9	28.3	30.6	35.4	42.4	44.8	47.1	42.4	42.4	40.1	37.7
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)