

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: P836737

Luminaire Tested: **ARCH3-70-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10208 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

Input Watts (W): 73.1
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

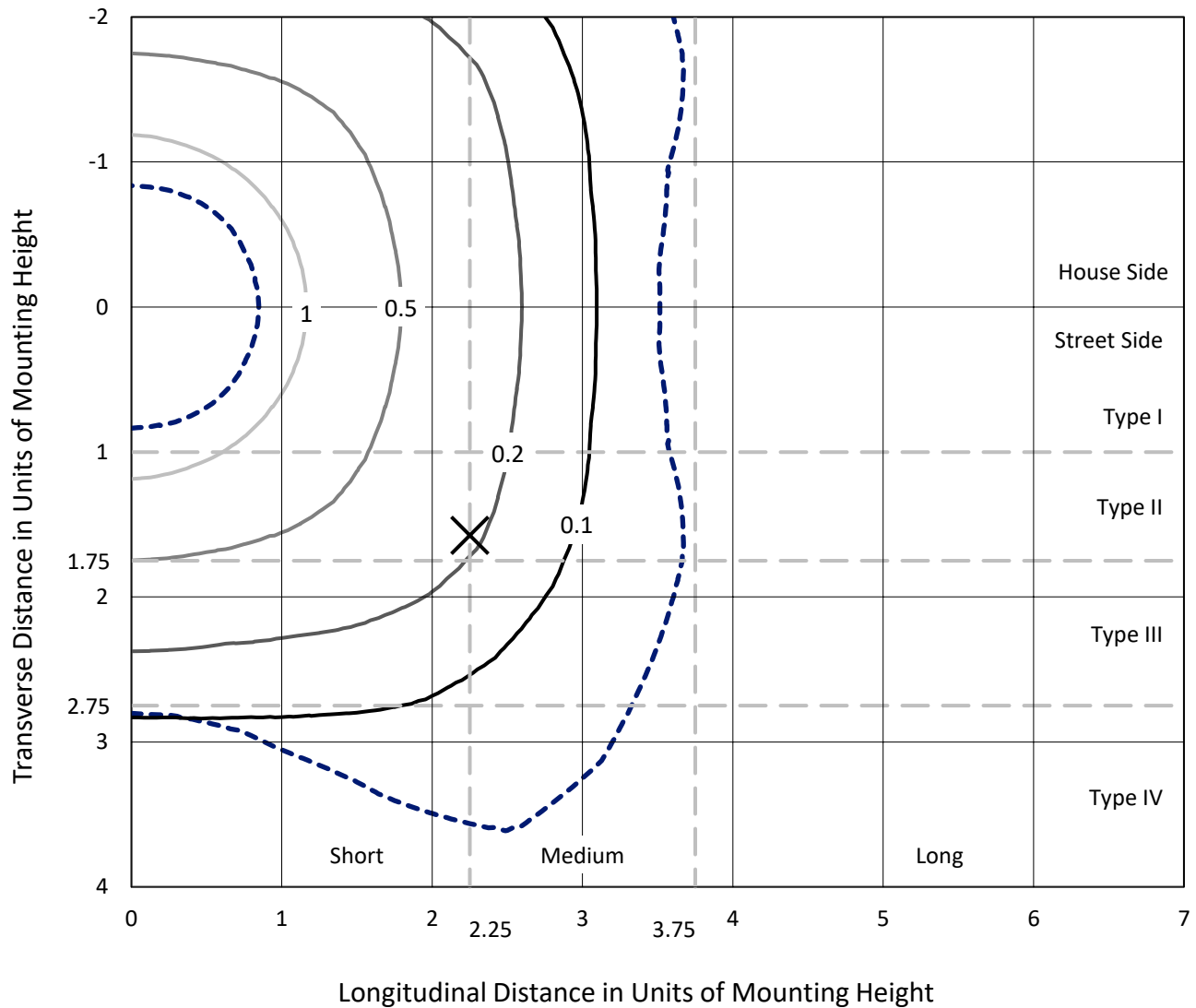


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Iso-Footcandle Lines of Horizontal Illumination

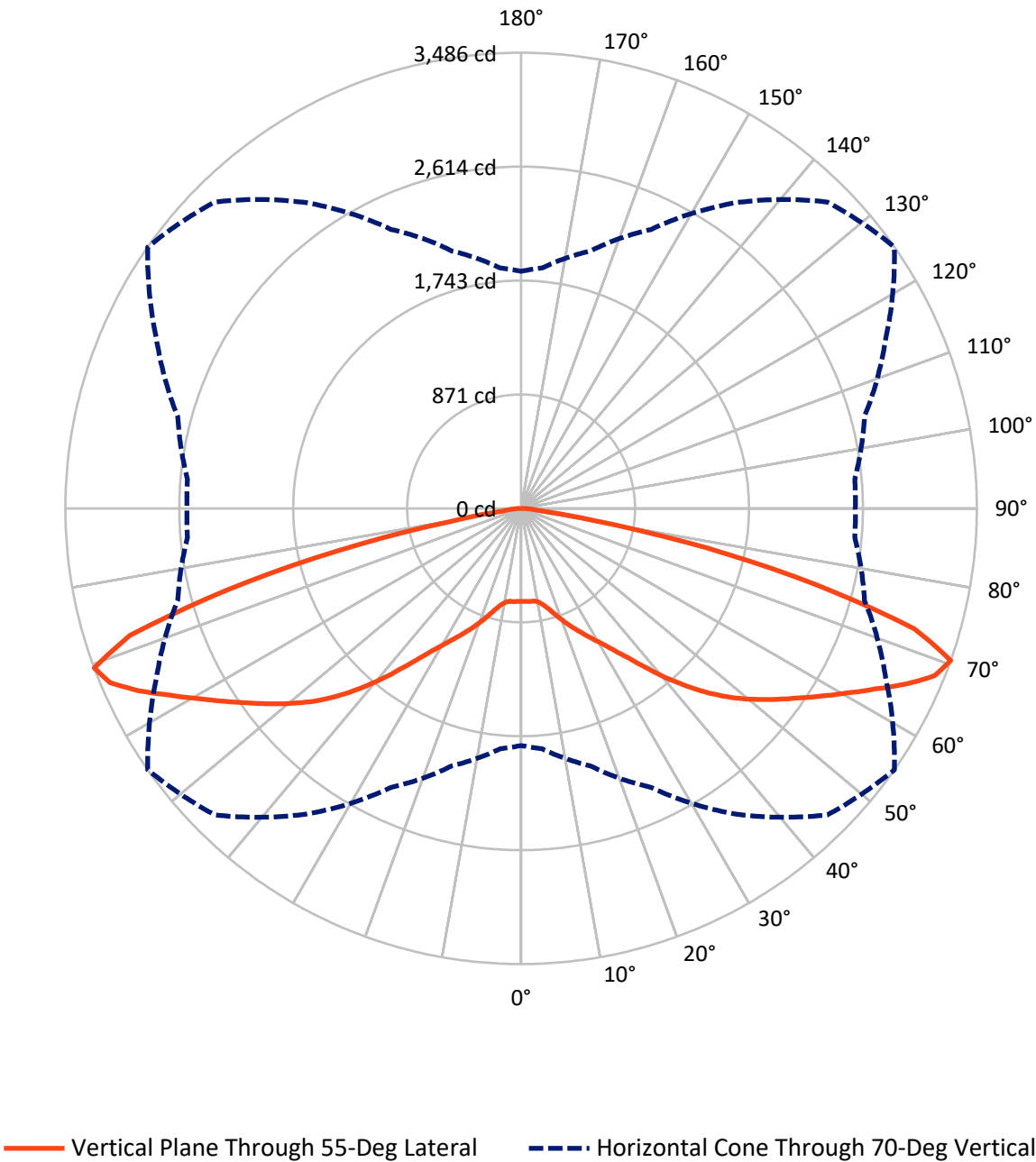
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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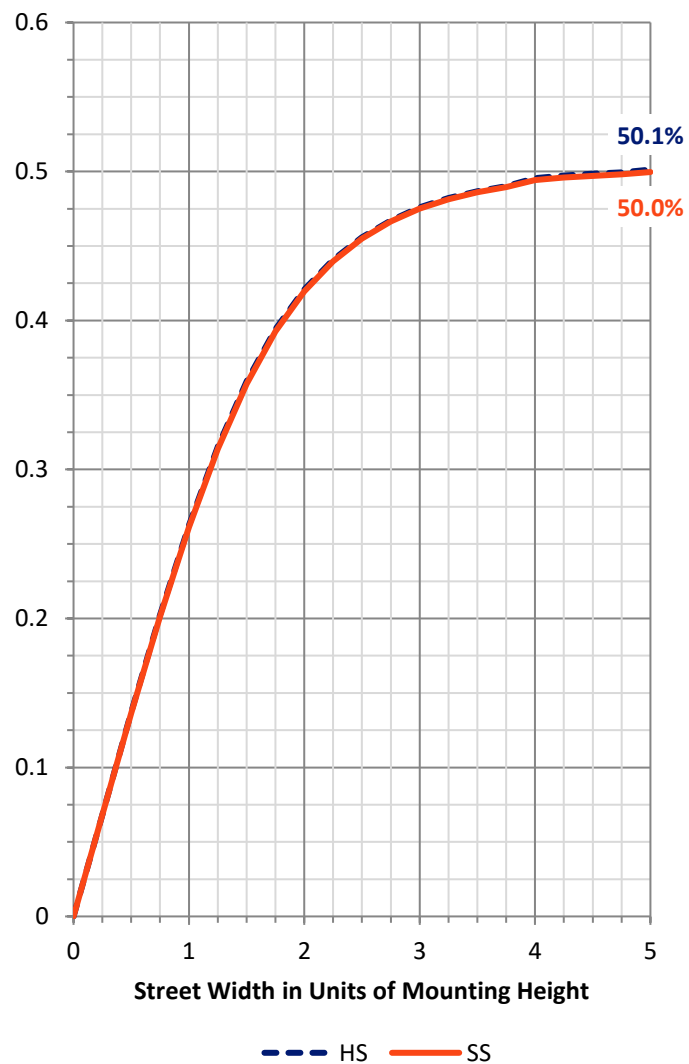
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5104.0	0.0	5104.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5104.0	0.0	5104.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10208.0	0.0	10208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	0.7
10°-20°	233.8	2.3
20°-30°	485.8	4.8
30°-40°	897.3	8.8
40°-50°	1576.3	15.4
50°-60°	2273.4	22.3
60°-70°	2782.4	27.3
70°-80°	1770.5	17.3
80°-90°	119.8	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°	10208.0	100.0
0°-180°	10208.0	100.0

Coefficient of Utilization



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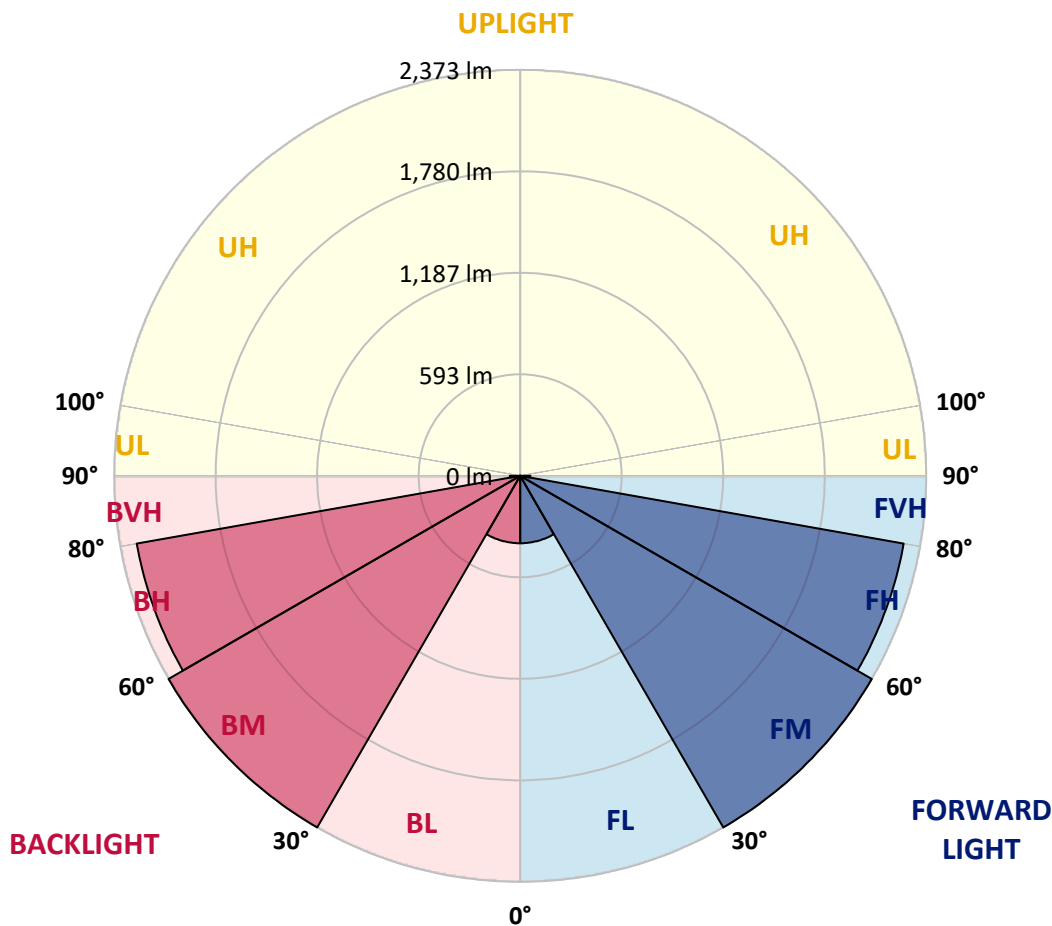
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	394.2	3.9			
FM	(30°-60°)	2373.5	23.3			
FH	(60°-80°)	2276.5	22.3			G2/5000
FVH	(80°-90°)	59.9	0.6			G1/100
BL	(0°-30°)	394.2	3.9	B1/500		
BM	(30°-60°)	2373.5	23.3	B2/2500		
BH	(60°-80°)	2276.5	22.3	B3/2500		G2/5000
BVH	(80°-90°)	59.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6	711.6
2.5°	721.1	721.1	719.2	719.2	715.4	713.5	711.6	711.6	709.7	709.7	707.8
5°	724.9	724.9	724.9	723.0	721.1	719.2	715.4	711.6	709.7	707.8	705.9
7.5°	726.8	726.8	724.9	724.9	723.0	721.1	715.4	709.7	707.8	705.9	705.9
10°	742.0	740.1	738.2	734.4	734.4	734.4	726.8	721.1	719.2	719.2	719.2
12.5°	778.0	776.1	772.3	766.6	766.6	768.5	757.1	749.5	749.5	747.6	747.6
15°	831.1	829.2	825.4	816.0	814.1	817.9	800.8	793.2	793.2	793.2	791.3
17.5°	890.0	886.2	880.5	872.9	872.9	872.9	855.8	846.3	840.6	840.6	838.7
20°	939.3	937.4	937.4	935.5	941.2	941.2	918.4	903.2	890.0	882.4	880.5
22.5°	982.9	981.1	984.8	992.4	1003.8	1007.6	981.1	958.3	937.4	922.2	918.4
25°	1041.8	1039.9	1038.0	1049.4	1068.3	1074.0	1045.6	1017.1	996.2	988.6	984.8
27.5°	1104.4	1106.3	1108.2	1119.6	1134.8	1144.2	1115.8	1089.2	1072.1	1060.7	1057.0
30°	1174.6	1178.4	1184.1	1201.2	1212.6	1216.4	1191.7	1172.7	1157.5	1148.0	1142.3
32.5°	1263.8	1271.4	1279.0	1294.2	1299.8	1296.0	1284.7	1271.4	1260.0	1246.7	1244.8
35°	1396.6	1404.2	1402.3	1408.0	1409.9	1406.1	1400.4	1392.8	1387.1	1370.1	1368.2
37.5°	1563.6	1571.2	1559.8	1554.1	1540.8	1542.7	1540.8	1546.5	1548.4	1531.4	1529.5
40°	1732.5	1740.1	1724.9	1709.7	1696.4	1690.7	1700.2	1719.2	1719.2	1707.8	1707.8
42.5°	1912.8	1918.5	1893.8	1874.8	1857.7	1853.9	1859.6	1882.4	1888.1	1886.2	1886.2
45°	2093.0	2089.2	2057.0	2038.0	2022.8	2013.3	2015.2	2032.3	2043.7	2049.4	2049.4
47.5°	2231.6	2225.9	2199.3	2184.1	2174.6	2161.3	2161.3	2170.8	2176.5	2178.4	2178.4
50°	2341.6	2335.9	2309.4	2307.5	2307.5	2301.8	2296.1	2294.2	2290.4	2292.3	2292.3
52.5°	2436.5	2428.9	2409.9	2413.7	2430.8	2434.6	2427.0	2411.8	2396.6	2391.0	2392.9
55°	2539.0	2527.6	2512.4	2523.8	2557.9	2573.1	2561.7	2531.4	2504.8	2487.7	2487.7
57.5°	2620.6	2607.3	2607.3	2639.5	2702.2	2732.5	2707.9	2650.9	2605.4	2586.4	2588.3
60°	2563.6	2552.3	2597.8	2740.1	2857.8	2909.0	2867.2	2766.7	2692.7	2669.9	2673.7
62.5°	2451.7	2444.1	2501.0	2721.1	2998.2	3104.4	3041.8	2897.6	2787.6	2761.0	2761.0
65°	2286.6	2284.7	2364.4	2635.7	3030.4	3292.3	3239.2	3039.9	2897.6	2861.6	2869.1
67.5°	2115.8	2115.8	2187.9	2489.6	2992.5	3372.0	3413.8	3169.0	2950.7	2861.6	2863.5
70°	1814.1	1846.3	2038.0	2354.9	2854.0	3315.1	3485.9	3077.9	2719.2	2561.7	2556.0
72.5°	1195.5	1237.2	1618.6	2119.6	2717.3	3108.2	3146.2	2704.1	2258.1	2074.1	2064.6
75°	721.1	757.1	1049.4	1654.7	2389.1	2502.9	2335.9	2119.6	1687.0	1542.7	1542.7
77.5°	212.5	237.2	483.9	1049.4	1652.8	1645.2	1440.3	1248.6	998.1	848.2	859.6
80°	125.2	129.0	157.5	478.2	685.0	721.1	556.0	347.3	347.3	258.1	250.5
82.5°	96.8	96.8	100.6	119.5	165.1	184.1	140.4	119.5	136.6	115.8	110.1
85°	68.3	68.3	68.3	70.2	72.1	74.0	77.8	79.7	87.3	72.1	68.3
87.5°	20.9	22.8	24.7	28.5	34.2	36.1	38.0	34.2	34.2	32.3	30.4
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)