

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: P842458

Luminaire Tested: **ARCH4-50-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9175 lumens
Efficiency: N/A
Efficacy: 172.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

Input Watts (W): 53.2
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

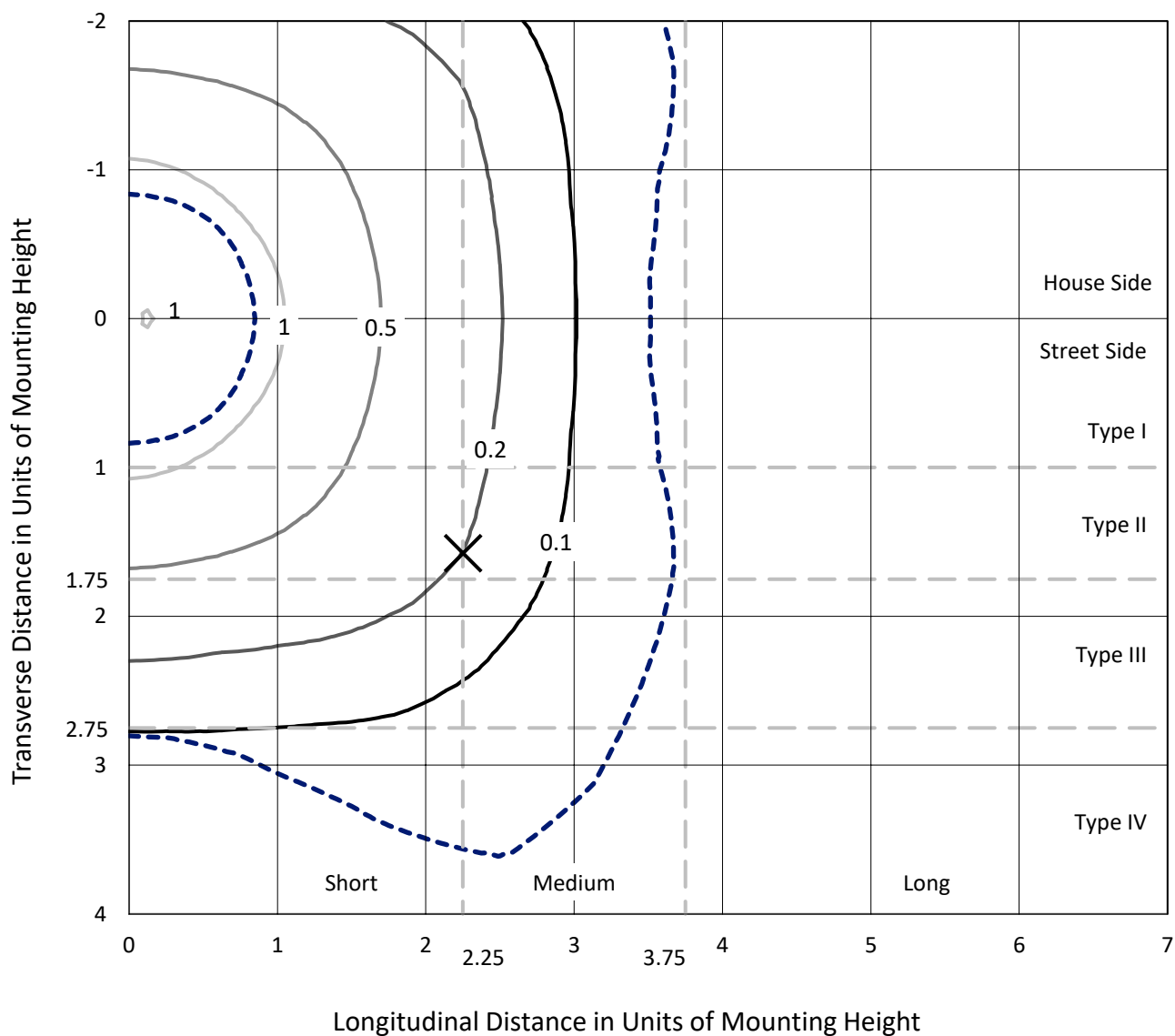


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Iso-Footcandle Lines of Horizontal Illumination

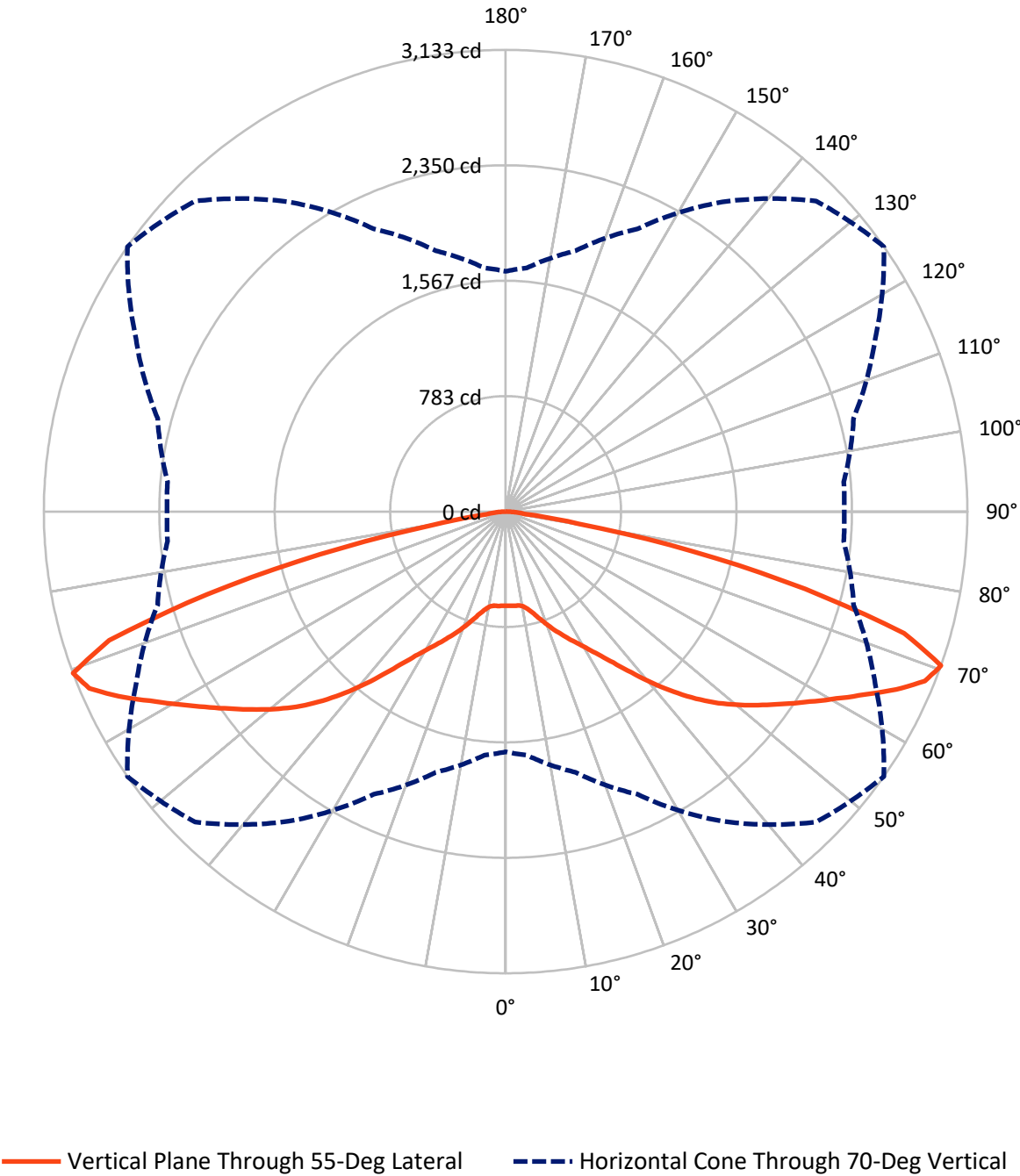
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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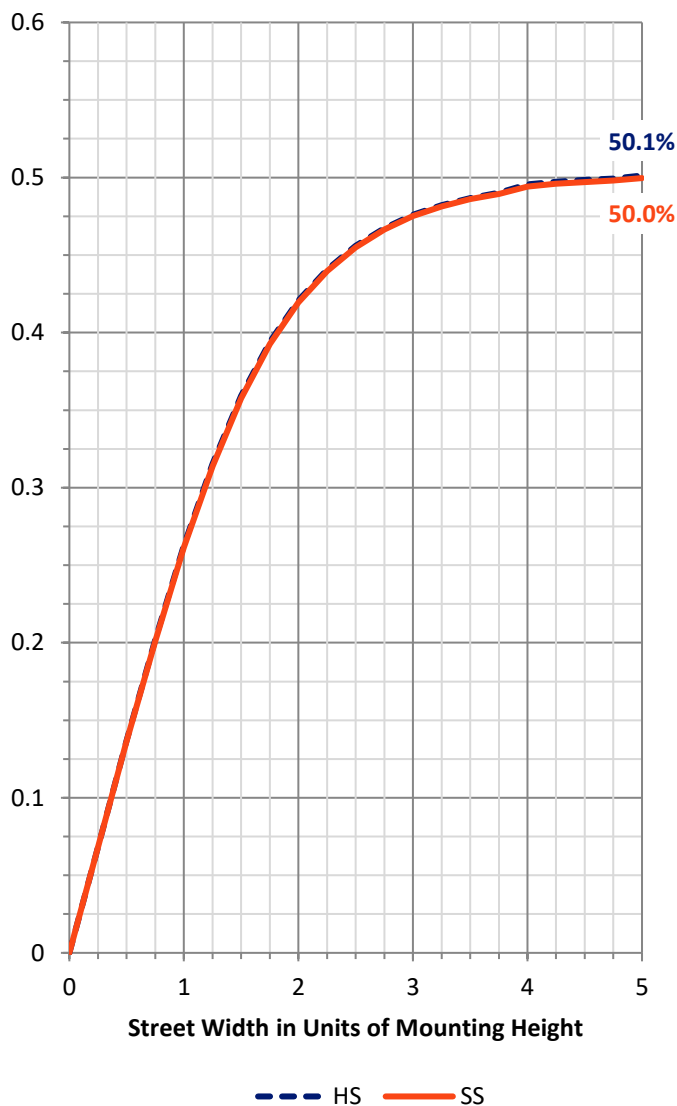
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4587.5	0.0	4587.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4587.5	0.0	4587.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9175.0	0.0	9175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	0.7
10°-20°	210.1	2.3
20°-30°	436.7	4.8
30°-40°	806.5	8.8
40°-50°	1416.8	15.4
50°-60°	2043.3	22.3
60°-70°	2500.8	27.3
70°-80°	1591.3	17.3
80°-90°	107.7	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°	9175.0	100.0
0°-180°	9175.0	100.0

Coefficient of Utilization



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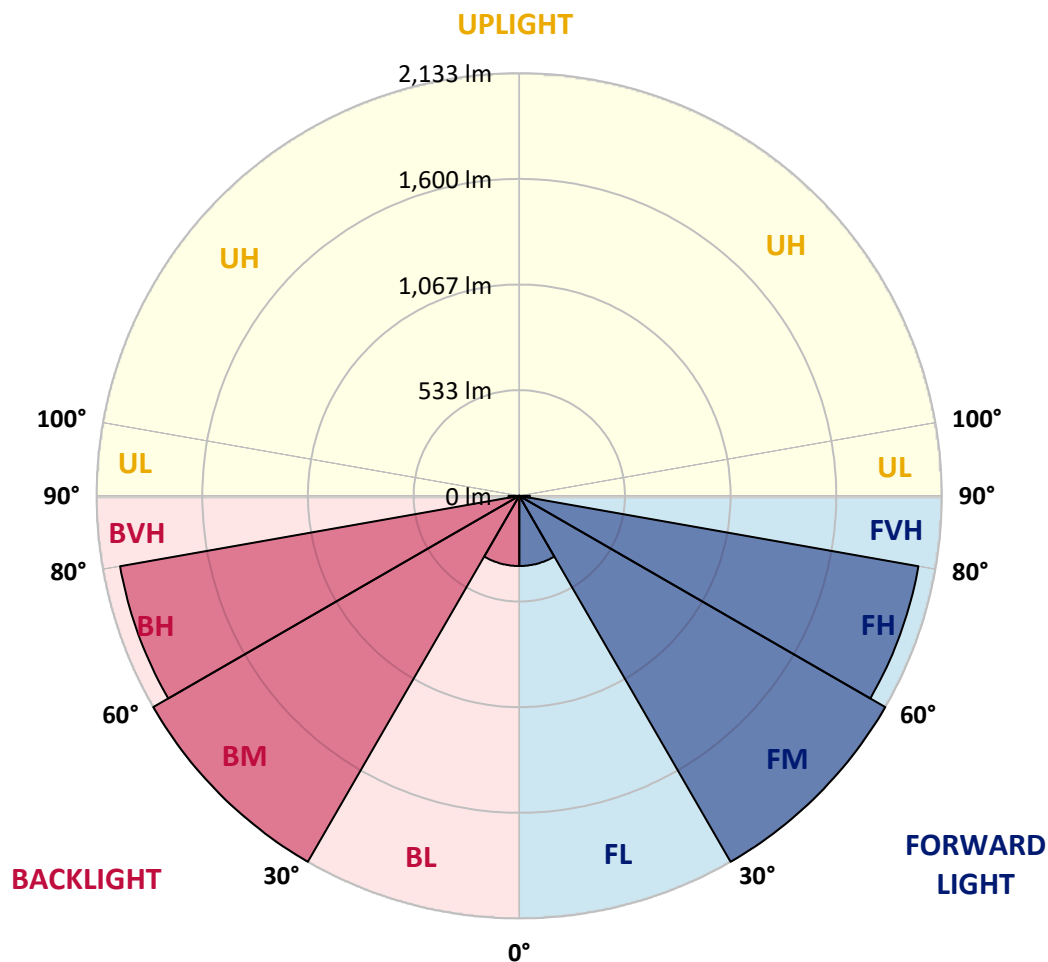
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.3	3.9			
FM	(30°-60°)	2133.3	23.3			
FH	(60°-80°)	2046.1	22.3			G2/5000
FVH	(80°-90°)	53.8	0.6			G1/100
BL	(0°-30°)	354.3	3.9	B1/500		
BM	(30°-60°)	2133.3	23.3	B2/2500		
BH	(60°-80°)	2046.1	22.3	B3/2500		G2/5000
BVH	(80°-90°)	53.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6	639.6
2.5°	648.1	648.1	646.4	646.4	643.0	641.3	639.6	639.6	637.9	637.9	636.2
5°	651.5	651.5	651.5	649.8	648.1	646.4	643.0	639.6	637.9	636.2	634.5
7.5°	653.2	653.2	651.5	651.5	649.8	648.1	643.0	637.9	636.2	634.5	634.5
10°	666.9	665.2	663.5	660.1	660.1	660.1	653.2	648.1	646.4	646.4	646.4
12.5°	699.3	697.6	694.2	689.0	689.0	690.8	680.5	673.7	673.7	672.0	672.0
15°	747.0	745.3	741.9	733.4	731.7	735.1	719.7	712.9	712.9	712.9	711.2
17.5°	799.9	796.5	791.4	784.6	784.6	784.6	769.2	760.7	755.6	755.6	753.9
20°	844.3	842.5	842.5	840.8	846.0	846.0	825.5	811.8	799.9	793.1	791.4
22.5°	883.5	881.8	885.2	892.0	902.2	905.7	881.8	861.3	842.5	828.9	825.5
25°	936.4	934.6	932.9	943.2	960.2	965.3	939.8	914.2	895.4	888.6	885.2
27.5°	992.6	994.3	996.0	1006.3	1019.9	1028.5	1002.9	979.0	963.6	953.4	950.0
30°	1055.7	1059.2	1064.3	1079.6	1089.9	1093.3	1071.1	1054.0	1040.4	1031.9	1026.7
32.5°	1135.9	1142.7	1149.5	1163.2	1168.3	1164.9	1154.7	1142.7	1132.5	1120.6	1118.8
35°	1255.3	1262.1	1260.4	1265.5	1267.2	1263.8	1258.7	1251.9	1246.8	1231.4	1229.7
37.5°	1405.4	1412.2	1402.0	1396.9	1384.9	1386.6	1384.9	1390.0	1391.7	1376.4	1374.7
40°	1557.2	1564.0	1550.4	1536.7	1524.8	1519.7	1528.2	1545.2	1545.2	1535.0	1535.0
42.5°	1719.2	1724.3	1702.1	1685.1	1669.7	1666.3	1671.4	1691.9	1697.0	1695.3	1695.3
45°	1881.2	1877.8	1848.8	1831.8	1818.1	1809.6	1811.3	1826.7	1836.9	1842.0	1842.0
47.5°	2005.7	2000.6	1976.7	1963.1	1954.6	1942.6	1942.6	1951.2	1956.3	1958.0	1958.0
50°	2104.7	2099.5	2075.7	2074.0	2074.0	2068.8	2063.7	2062.0	2058.6	2060.3	2060.3
52.5°	2189.9	2183.1	2166.1	2169.5	2184.8	2188.2	2181.4	2167.8	2154.1	2149.0	2150.7
55°	2282.0	2271.8	2258.2	2268.4	2299.1	2312.7	2302.5	2275.2	2251.3	2236.0	2236.0
57.5°	2355.4	2343.4	2343.4	2372.4	2428.7	2456.0	2433.8	2382.7	2341.7	2324.7	2326.4
60°	2304.2	2294.0	2334.9	2462.8	2568.6	2614.6	2577.1	2486.7	2420.2	2399.7	2403.1
62.5°	2203.6	2196.8	2247.9	2445.8	2694.8	2790.3	2734.0	2604.4	2505.5	2481.6	2481.6
65°	2055.2	2053.5	2125.1	2369.0	2723.8	2959.1	2911.4	2732.3	2604.4	2572.0	2578.8
67.5°	1901.7	1901.7	1966.5	2237.7	2689.7	3030.8	3068.3	2848.3	2652.1	2572.0	2573.7
70°	1630.5	1659.5	1831.8	2116.6	2565.2	2979.6	3133.1	2766.4	2444.1	2302.5	2297.4
72.5°	1074.5	1112.0	1454.8	1905.1	2442.4	2793.7	2827.8	2430.4	2029.6	1864.2	1855.6
75°	648.1	680.5	943.2	1487.2	2147.3	2249.6	2099.5	1905.1	1516.2	1386.6	1386.6
77.5°	191.0	213.2	434.9	943.2	1485.5	1478.7	1294.5	1122.3	897.1	762.4	772.6
80°	112.6	116.0	141.6	429.8	615.7	648.1	499.7	312.1	312.1	232.0	225.1
82.5°	87.0	87.0	90.4	107.5	148.4	165.4	126.2	107.5	122.8	104.0	98.9
85°	61.4	61.4	61.4	63.1	64.8	66.5	69.9	71.6	78.5	64.8	61.4
87.5°	18.8	20.5	22.2	25.6	30.7	32.4	34.1	30.7	30.7	29.0	27.3
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)