

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: P836638

Luminaire Tested: **ARCH3-50-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836638
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: ARCH3-50-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9177 lumens
Efficiency: N/A
Efficacy: 171.2 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): 53.6
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

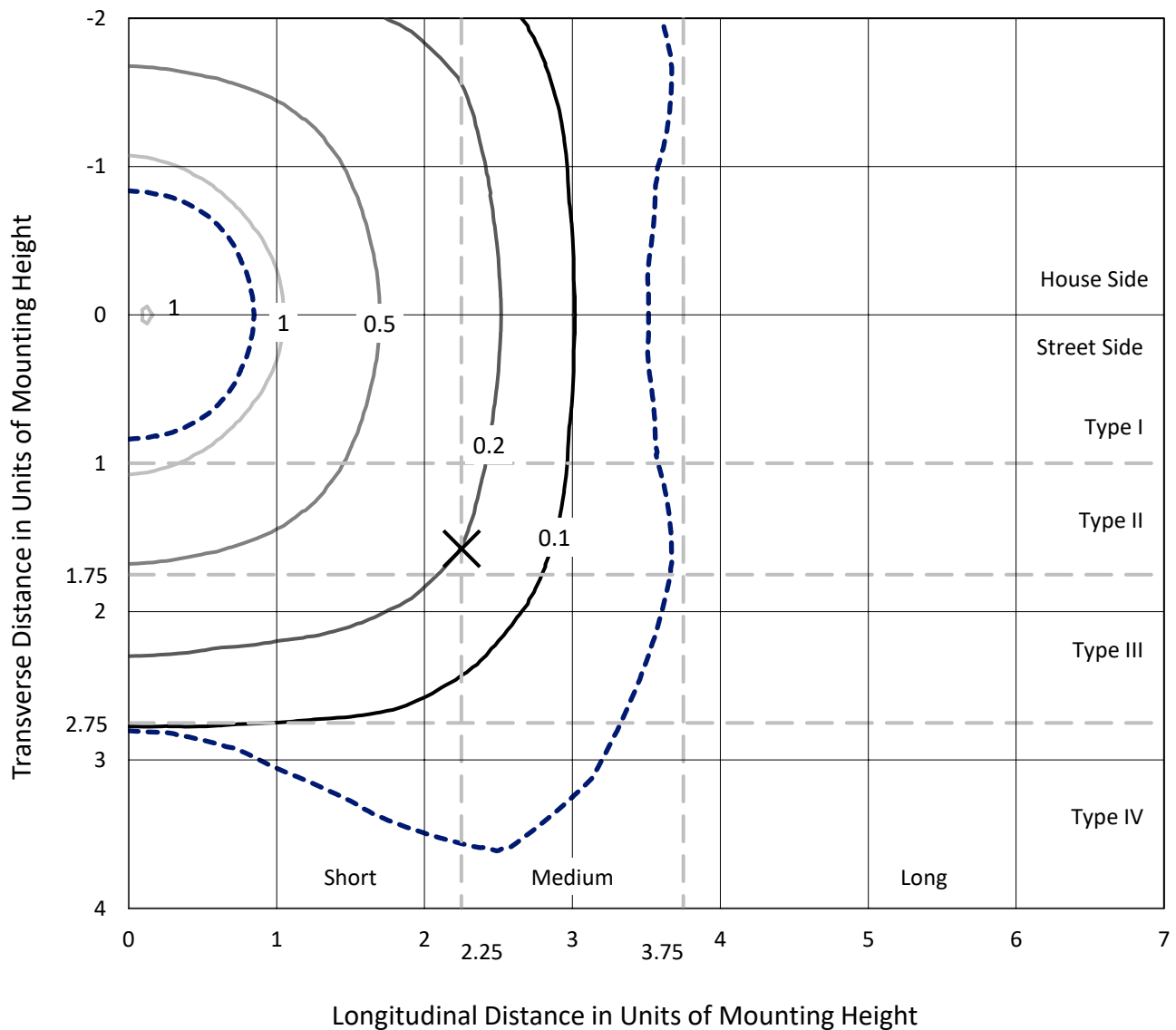


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

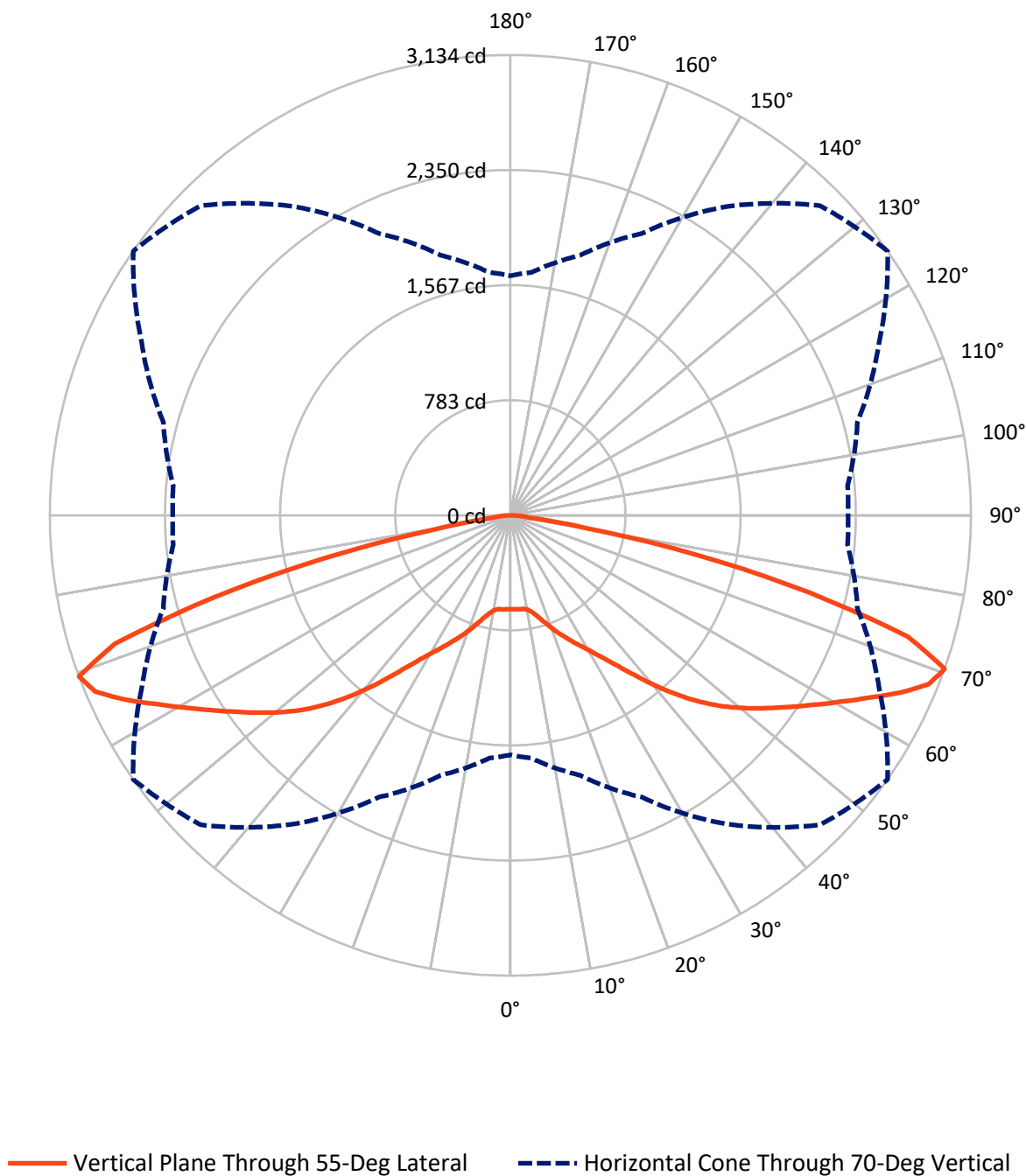


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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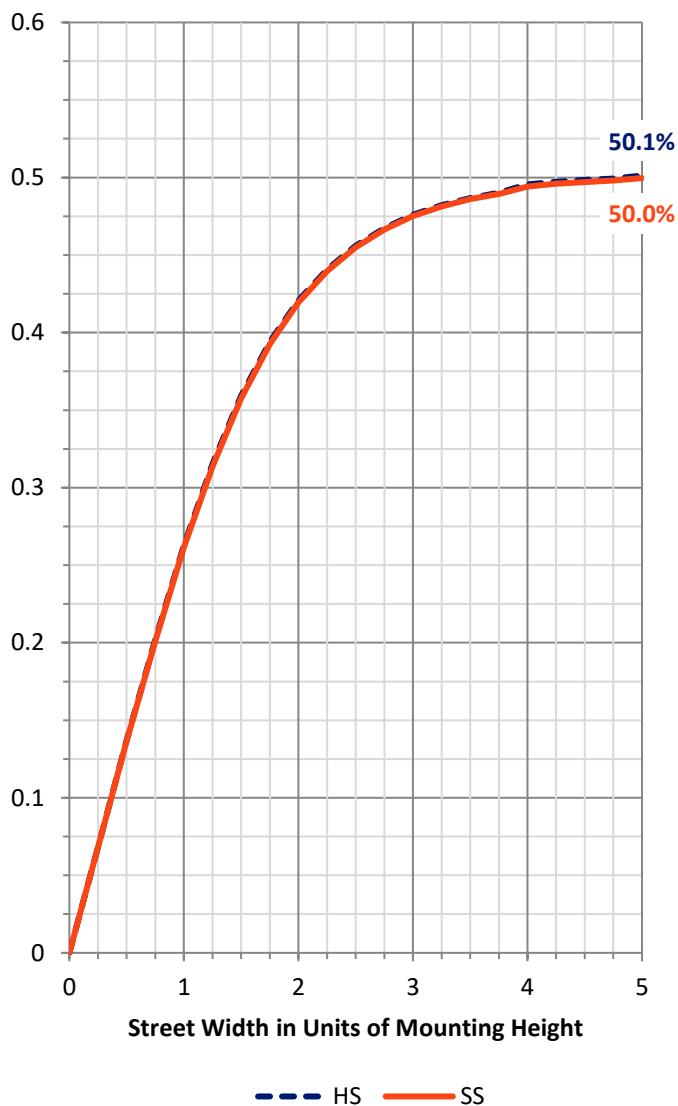
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4588.5	0.0	4588.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4588.5	0.0	4588.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9177.0	0.0	9177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	0.7
10°-20°	210.2	2.3
20°-30°	436.7	4.8
30°-40°	806.6	8.8
40°-50°	1417.1	15.4
50°-60°	2043.8	22.3
60°-70°	2501.4	27.3
70°-80°	1591.7	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°	9177.0	100.0
0°-180°	9177.0	100.0

Coefficient of Utilization



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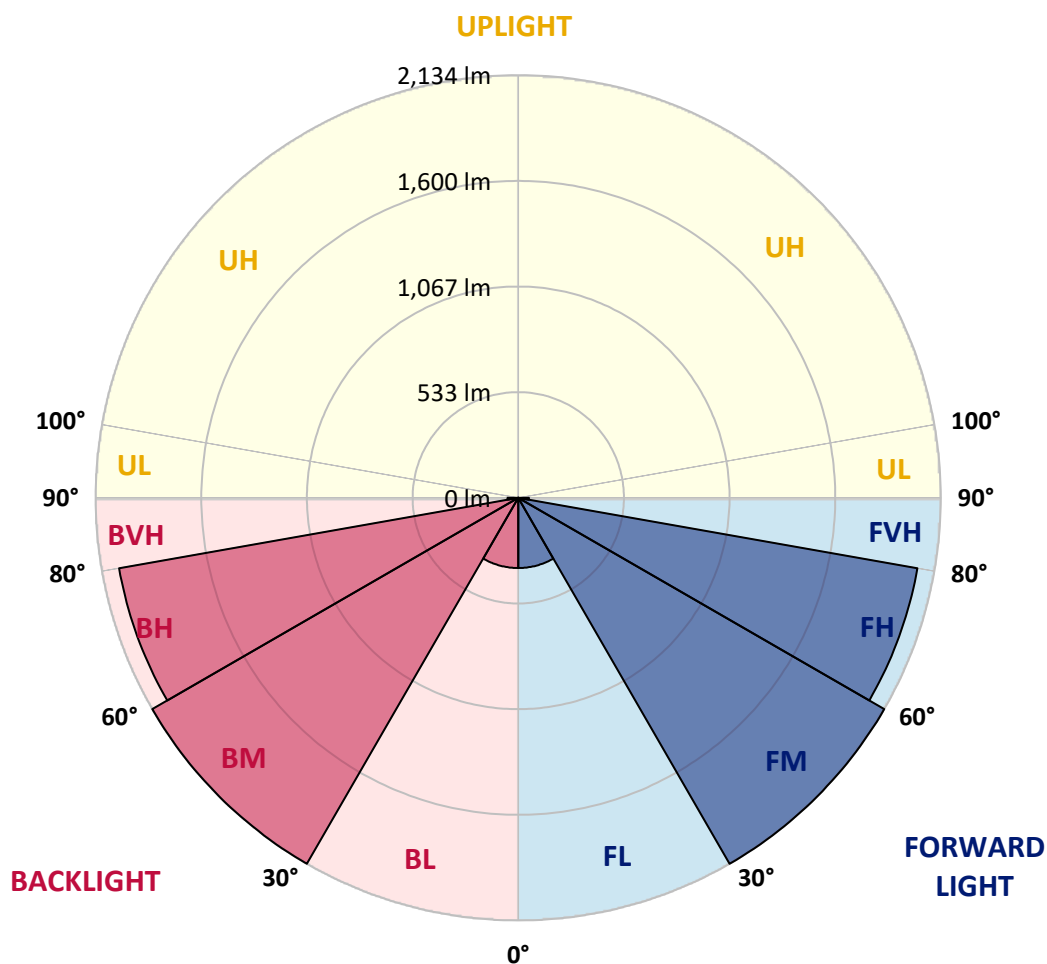
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.3	3.9			
FM	(30°-60°)	2133.8	23.3			
FH	(60°-80°)	2046.5	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°)	2133.8	23.3	B2/2500		
BH	(60°-80°)	2046.5	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°	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7	639.7
2.5°	648.3	648.3	646.5	646.5	643.1	641.4	639.7	639.7	638.0	638.0	636.3
5°	651.7	651.7	651.7	650.0	648.3	646.5	643.1	639.7	638.0	636.3	634.6
7.5°	653.4	653.4	651.7	651.7	650.0	648.3	643.1	638.0	636.3	634.6	634.6
10°	667.0	665.3	663.6	660.2	660.2	660.2	653.4	648.3	646.5	646.5	646.5
12.5°	699.4	697.7	694.3	689.2	689.2	690.9	680.7	673.8	673.8	672.1	672.1
15°	747.2	745.5	742.1	733.5	731.8	735.3	719.9	713.1	713.1	713.1	711.4
17.5°	800.1	796.7	791.6	784.7	784.7	784.7	769.4	760.8	755.7	755.7	754.0
20°	844.4	842.7	842.7	841.0	846.1	846.1	825.7	812.0	800.1	793.3	791.6
22.5°	883.7	882.0	885.4	892.2	902.4	905.8	882.0	861.5	842.7	829.1	825.7
25°	936.6	934.8	933.1	943.4	960.4	965.6	940.0	914.4	895.6	888.8	885.4
27.5°	992.9	994.6	996.3	1006.5	1020.1	1028.7	1003.1	979.2	963.9	953.6	950.2
30°	1056.0	1059.4	1064.5	1079.9	1090.1	1093.5	1071.3	1054.3	1040.6	1032.1	1027.0
32.5°	1136.1	1143.0	1149.8	1163.4	1168.6	1165.1	1154.9	1143.0	1132.7	1120.8	1119.1
35°	1255.6	1262.4	1260.7	1265.8	1267.5	1264.1	1259.0	1252.2	1247.0	1231.7	1230.0
37.5°	1405.7	1412.5	1402.3	1397.2	1385.2	1386.9	1385.2	1390.3	1392.0	1376.7	1375.0
40°	1557.5	1564.3	1550.7	1537.0	1525.1	1520.0	1528.5	1545.6	1545.6	1535.3	1535.3
42.5°	1719.6	1724.7	1702.5	1685.5	1670.1	1666.7	1671.8	1692.3	1697.4	1695.7	1695.7
45°	1881.6	1878.2	1849.2	1832.2	1818.5	1810.0	1811.7	1827.1	1837.3	1842.4	1842.4
47.5°	2006.2	2001.1	1977.2	1963.5	1955.0	1943.1	1943.1	1951.6	1956.7	1958.4	1958.4
50°	2105.1	2100.0	2076.1	2074.4	2074.4	2069.3	2064.2	2062.5	2059.1	2060.8	2060.8
52.5°	2190.4	2183.6	2166.5	2169.9	2185.3	2188.7	2181.9	2168.2	2154.6	2149.5	2151.2
55°	2282.5	2272.3	2258.7	2268.9	2299.6	2313.2	2303.0	2275.7	2251.8	2236.5	2236.5
57.5°	2355.9	2343.9	2343.9	2372.9	2429.2	2456.5	2434.4	2383.2	2342.2	2325.2	2326.9
60°	2304.7	2294.5	2335.4	2463.4	2569.1	2615.2	2577.7	2487.2	2420.7	2400.2	2403.7
62.5°	2204.1	2197.2	2248.4	2446.3	2695.4	2790.9	2734.6	2605.0	2506.0	2482.1	2482.1
65°	2055.6	2053.9	2125.6	2369.5	2724.4	2959.8	2912.0	2732.9	2605.0	2572.5	2579.4
67.5°	1902.1	1902.1	1966.9	2238.2	2690.3	3031.4	3069.0	2848.9	2652.7	2572.5	2574.2
70°	1630.9	1659.9	1832.2	2117.1	2565.7	2980.3	3133.8	2767.0	2444.6	2303.0	2297.9
72.5°	1074.7	1112.3	1455.2	1905.5	2442.9	2794.3	2828.4	2430.9	2030.1	1864.6	1856.1
75°	648.3	680.7	943.4	1487.6	2147.8	2250.1	2100.0	1905.5	1516.6	1386.9	1386.9
77.5°	191.1	213.2	435.0	943.4	1485.9	1479.0	1294.8	1122.5	897.3	762.6	772.8
80°	112.6	116.0	141.6	429.9	615.8	648.3	499.8	312.2	312.2	232.0	225.2
82.5°	87.0	87.0	90.4	107.5	148.4	165.5	126.2	107.5	122.8	104.1	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)