

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: P842485

Luminaire Tested: **ARCH4-50-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842485
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: ARCH4-50-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9634 lumens
Efficiency: N/A
Efficacy: 181.1 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

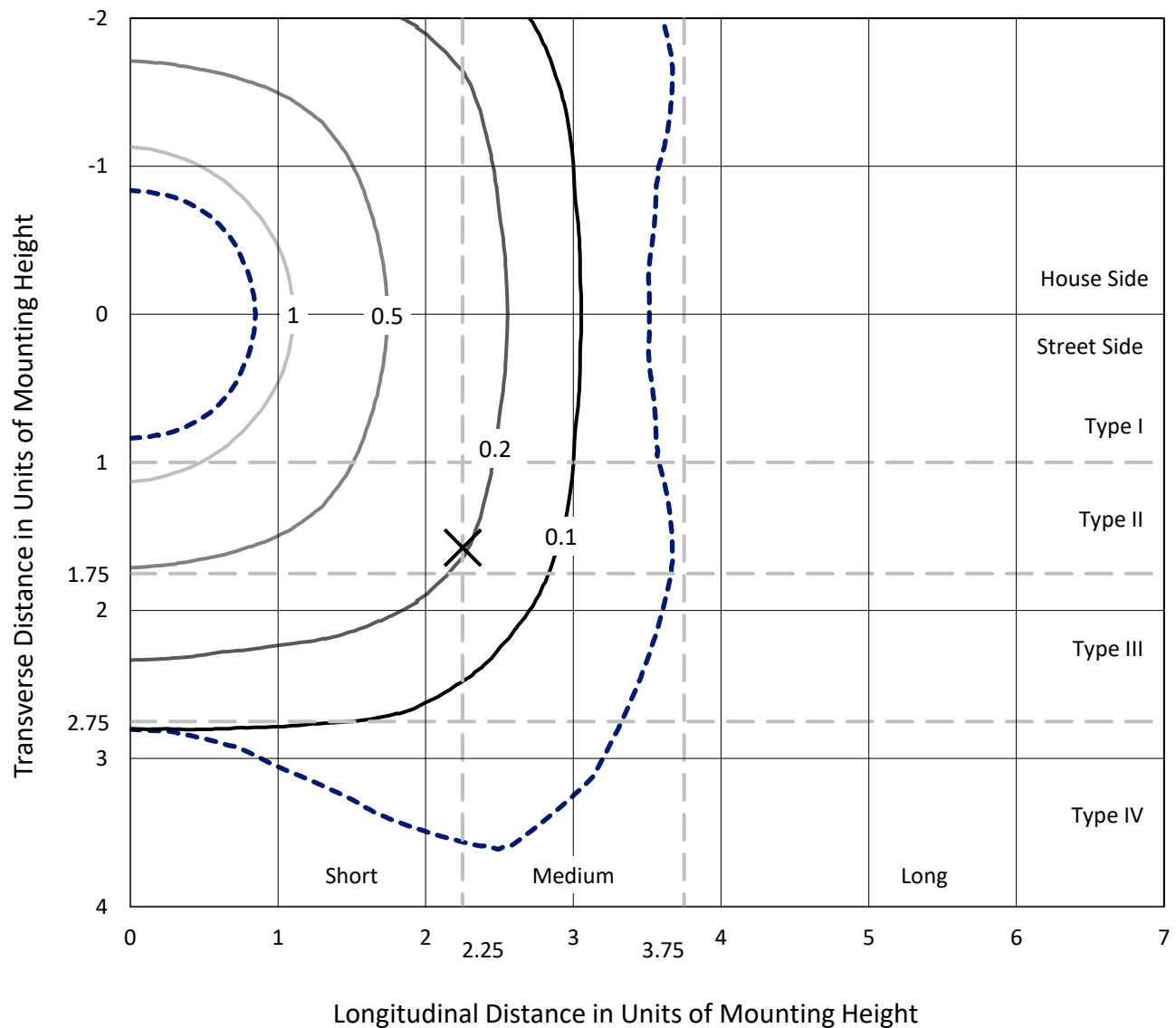


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Iso-Footcandle Lines of Horizontal Illumination

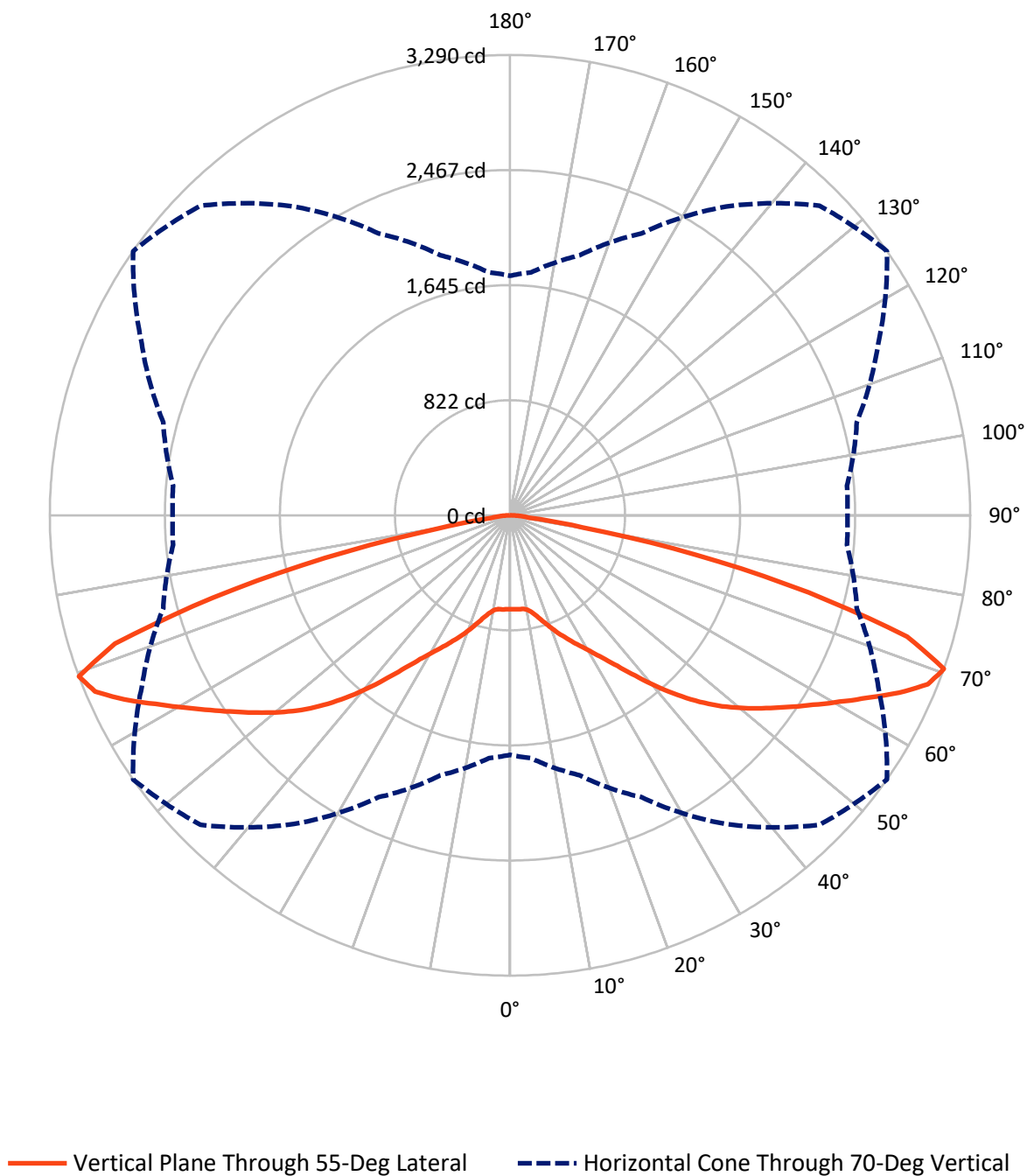
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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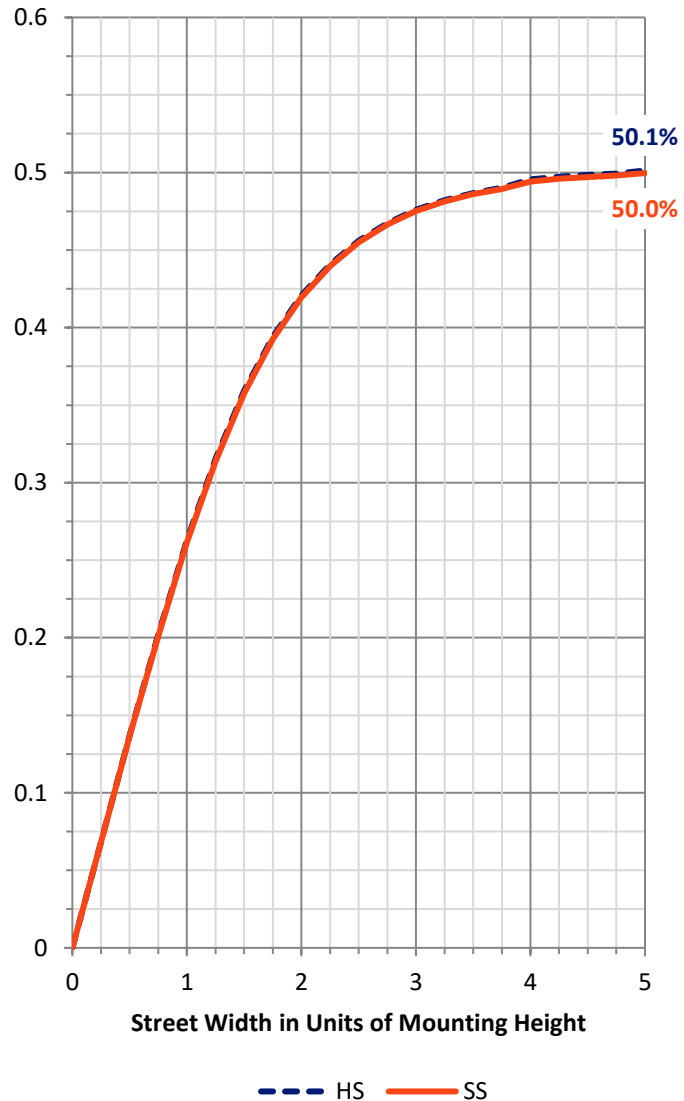
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4817.0	0.0	4817.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4817.0	0.0	4817.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9634.0	0.0	9634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	0.7
10°-20°	220.7	2.3
20°-30°	458.5	4.8
30°-40°	846.8	8.8
40°-50°	1487.7	15.4
50°-60°	2145.6	22.3
60°-70°	2625.9	27.3
70°-80°	1670.9	17.3
80°-90°	113.1	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°	9634.0	100.0
0°-180°	9634.0	100.0

Coefficient of Utilization



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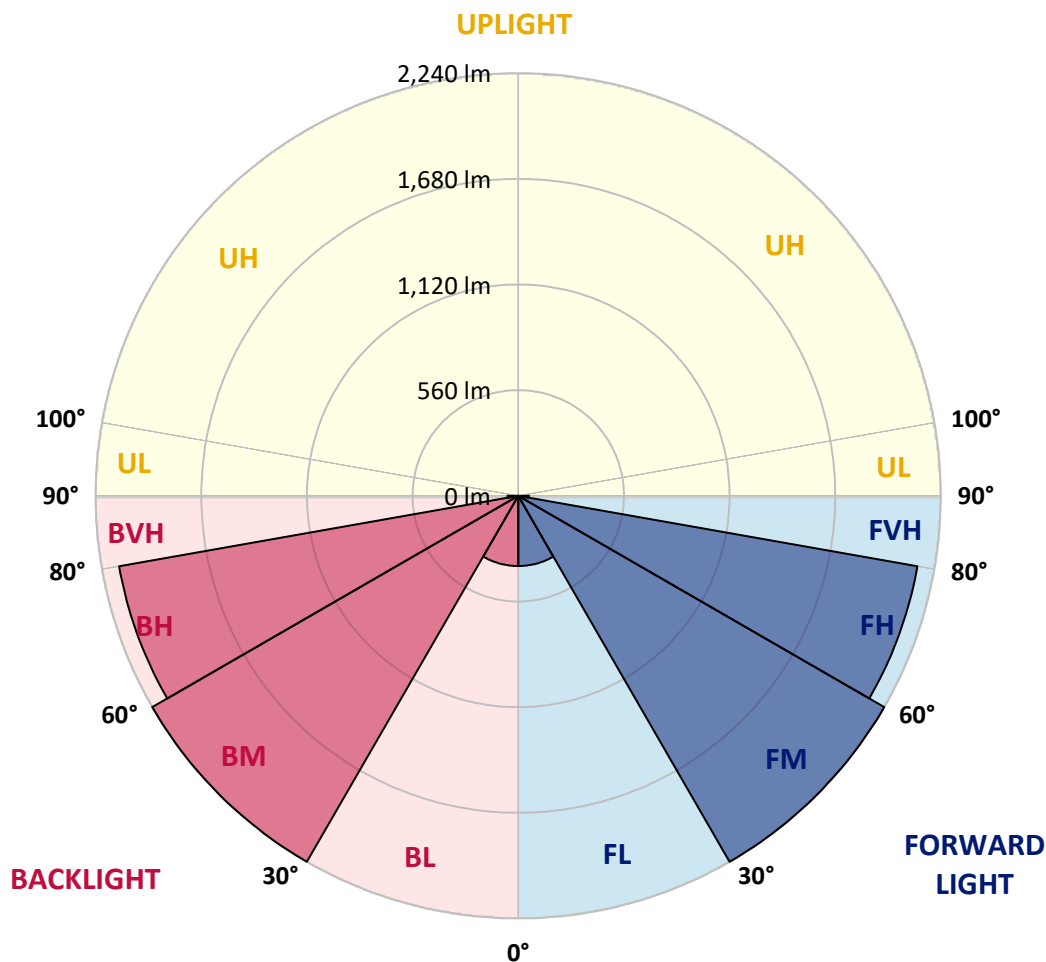
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.0	3.9			
FM	(30°-60°)	2240.0	23.3			
FH	(60°-80°)	2148.4	22.3			G2/5000
FVH	(80°-90°)	56.5	0.6			G1/100
BL	(0°-30°)	372.0	3.9	B1/500		
BM	(30°-60°)	2240.0	23.3	B2/2500		
BH	(60°-80°)	2148.4	22.3	B3/2500		G2/5000
BVH	(80°-90°)	56.5	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°	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6	671.6
2.5°	680.5	680.5	678.7	678.7	675.2	673.4	671.6	671.6	669.8	669.8	668.0
5°	684.1	684.1	684.1	682.3	680.5	678.7	675.2	671.6	669.8	668.0	666.2
7.5°	685.9	685.9	684.1	684.1	682.3	680.5	675.2	669.8	668.0	666.2	666.2
10°	700.2	698.4	696.7	693.1	693.1	693.1	685.9	680.5	678.7	678.7	678.7
12.5°	734.3	732.5	728.9	723.5	723.5	725.3	714.6	707.4	707.4	705.6	705.6
15°	784.4	782.6	779.0	770.1	768.3	771.9	755.8	748.6	748.6	748.6	746.8
17.5°	839.9	836.3	831.0	823.8	823.8	823.8	807.7	798.7	793.4	793.4	791.6
20°	886.5	884.7	884.7	882.9	888.3	888.3	866.8	852.5	839.9	832.8	831.0
22.5°	927.7	925.9	929.5	936.6	947.4	951.0	925.9	904.4	884.7	870.4	866.8
25°	983.2	981.4	979.6	990.4	1008.3	1013.6	986.8	959.9	940.2	933.0	929.5
27.5°	1042.3	1044.1	1045.9	1056.6	1070.9	1079.9	1053.0	1028.0	1011.8	1001.1	997.5
30°	1108.6	1112.1	1117.5	1133.6	1144.4	1148.0	1124.7	1106.8	1092.4	1083.5	1078.1
32.5°	1192.7	1199.9	1207.1	1221.4	1226.8	1223.2	1212.4	1199.9	1189.1	1176.6	1174.8
35°	1318.1	1325.3	1323.5	1328.8	1330.6	1327.0	1321.7	1314.5	1309.1	1293.0	1291.2
37.5°	1475.7	1482.9	1472.1	1466.7	1454.2	1456.0	1454.2	1459.6	1461.4	1445.2	1443.5
40°	1635.1	1642.2	1627.9	1613.6	1601.0	1595.7	1604.6	1622.5	1622.5	1611.8	1611.8
42.5°	1805.2	1810.6	1787.3	1769.4	1753.3	1749.7	1755.1	1776.6	1781.9	1780.1	1780.1
45°	1975.3	1971.8	1941.3	1923.4	1909.1	1900.1	1901.9	1918.0	1928.8	1934.2	1934.2
47.5°	2106.1	2100.7	2075.6	2061.3	2052.4	2039.8	2039.8	2048.8	2054.1	2055.9	2055.9
50°	2209.9	2204.6	2179.5	2177.7	2177.7	2172.3	2167.0	2165.2	2161.6	2163.4	2163.4
52.5°	2299.5	2292.3	2274.4	2278.0	2294.1	2297.7	2290.5	2276.2	2261.9	2256.5	2258.3
55°	2396.2	2385.5	2371.1	2381.9	2414.1	2428.4	2417.7	2389.0	2364.0	2347.8	2347.8
57.5°	2473.2	2460.7	2460.7	2491.1	2550.2	2578.9	2555.6	2501.9	2458.9	2441.0	2442.8
60°	2419.5	2408.7	2451.7	2586.0	2697.1	2745.4	2706.0	2611.1	2541.3	2519.8	2523.4
62.5°	2313.8	2306.7	2360.4	2568.1	2829.6	2929.9	2870.8	2734.7	2630.8	2605.7	2605.7
65°	2158.0	2156.2	2231.4	2487.5	2860.0	3107.2	3057.0	2869.0	2734.7	2700.6	2707.8
67.5°	1996.8	1996.8	2064.9	2349.6	2824.2	3182.4	3221.8	2990.8	2784.8	2700.6	2702.4
70°	1712.1	1742.5	1923.4	2222.5	2693.5	3128.7	3289.8	2904.8	2566.3	2417.7	2412.3
72.5°	1128.3	1167.7	1527.6	2000.4	2564.5	2933.5	2969.3	2552.0	2131.1	1957.4	1948.5
75°	680.5	714.6	990.4	1561.6	2254.7	2362.2	2204.6	2000.4	1592.1	1456.0	1456.0
77.5°	200.6	223.9	456.7	990.4	1559.9	1552.7	1359.3	1178.4	942.0	800.5	811.3
80°	118.2	121.8	148.6	451.3	646.5	680.5	524.7	327.7	327.7	243.6	236.4
82.5°	91.3	91.3	94.9	112.8	155.8	173.7	132.5	112.8	128.9	109.2	103.9
85°	64.5	64.5	64.5	66.3	68.1	69.8	73.4	75.2	82.4	68.1	64.5
87.5°	19.7	21.5	23.3	26.9	32.2	34.0	35.8	32.2	32.2	30.4	28.7
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)