

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: P800127

Luminaire Tested: **ARCH2-80-727-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800127
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: ARCH2-80-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10650 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

Input Watts (W): 84.3
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



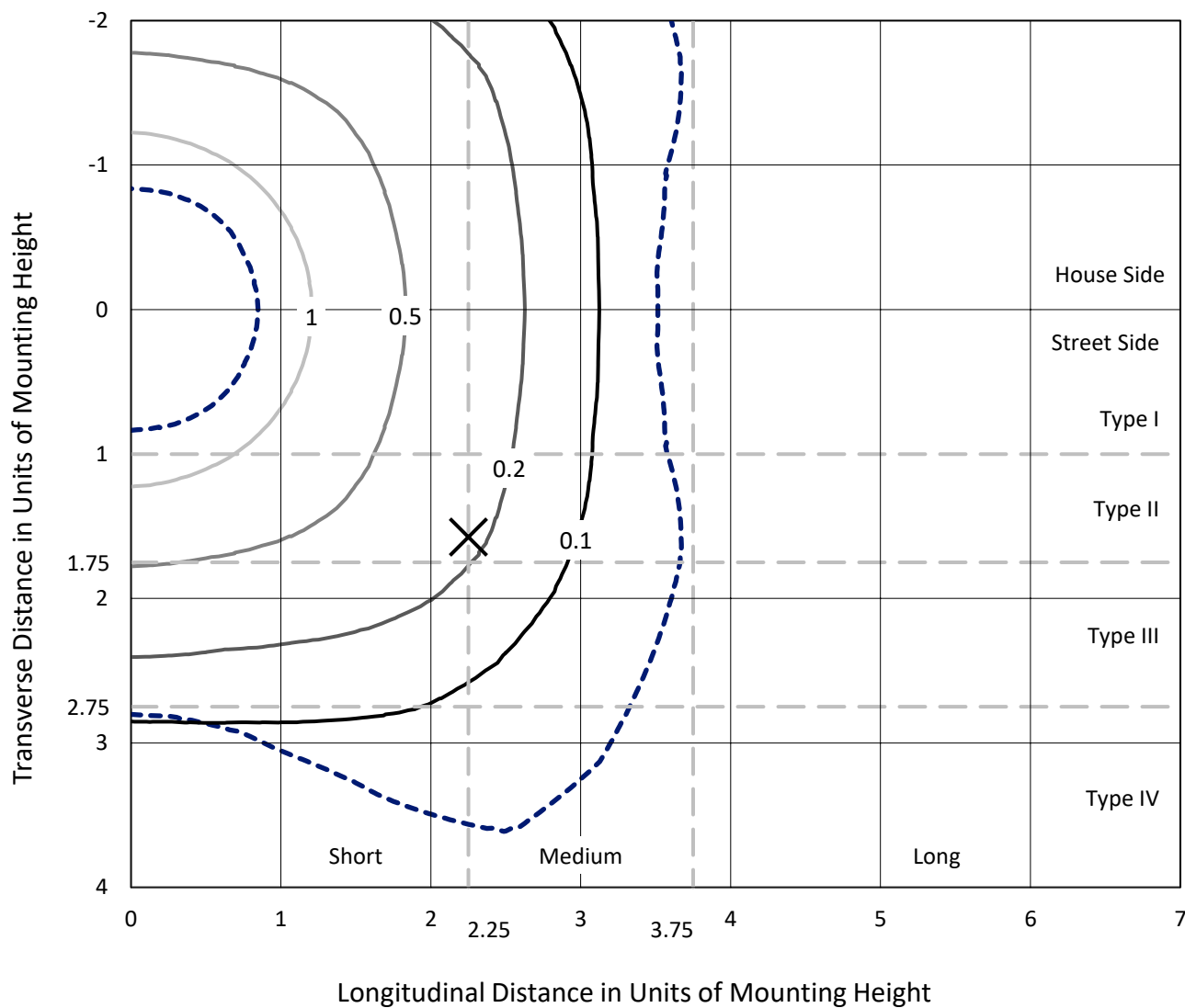
REPORT NUMBER: P800127

CATALOG NUMBER: ARCH2-80-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

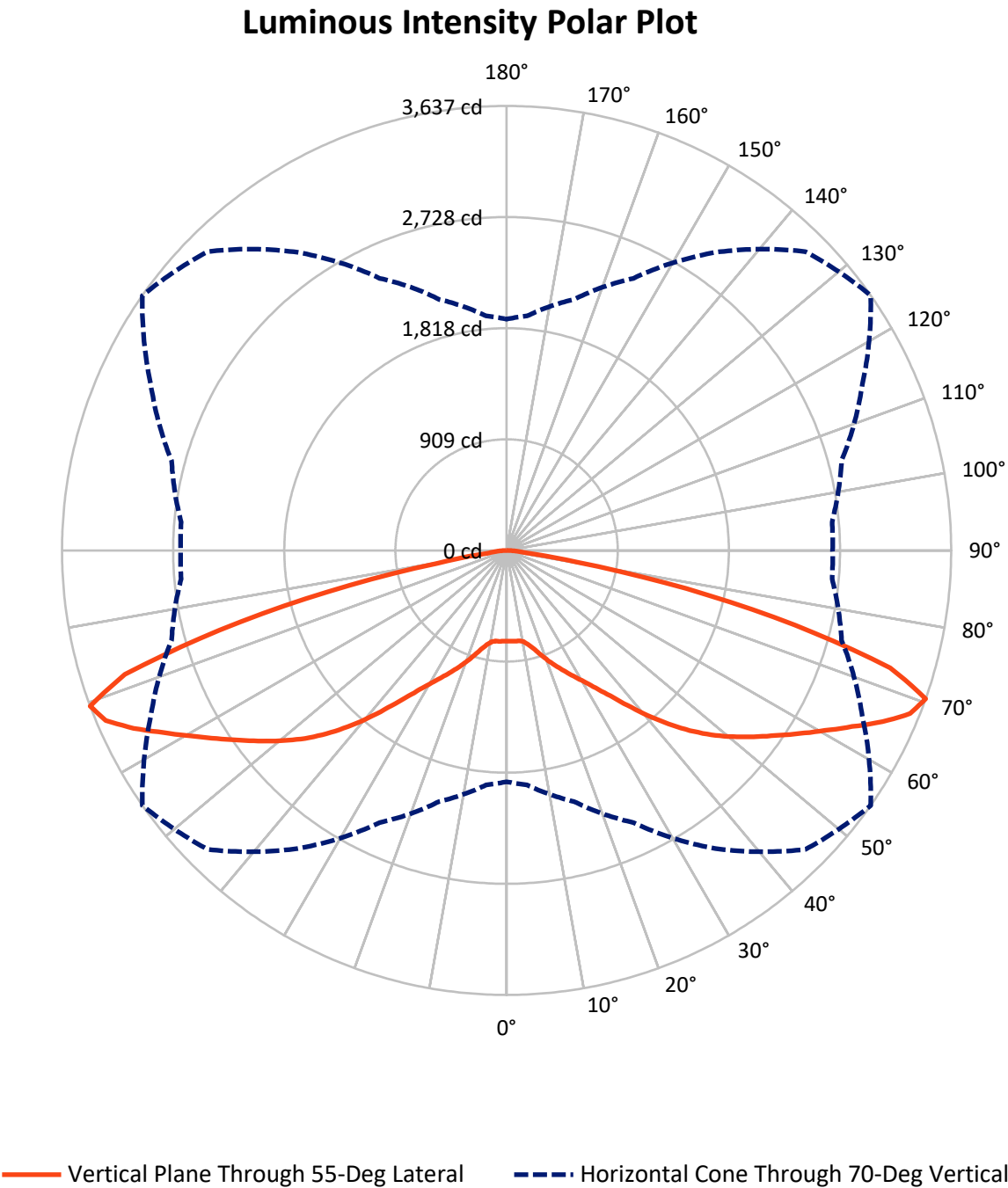
✕ Max cd

--- 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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CATALOG NUMBER: ARCH2-80-727-U-5WQ



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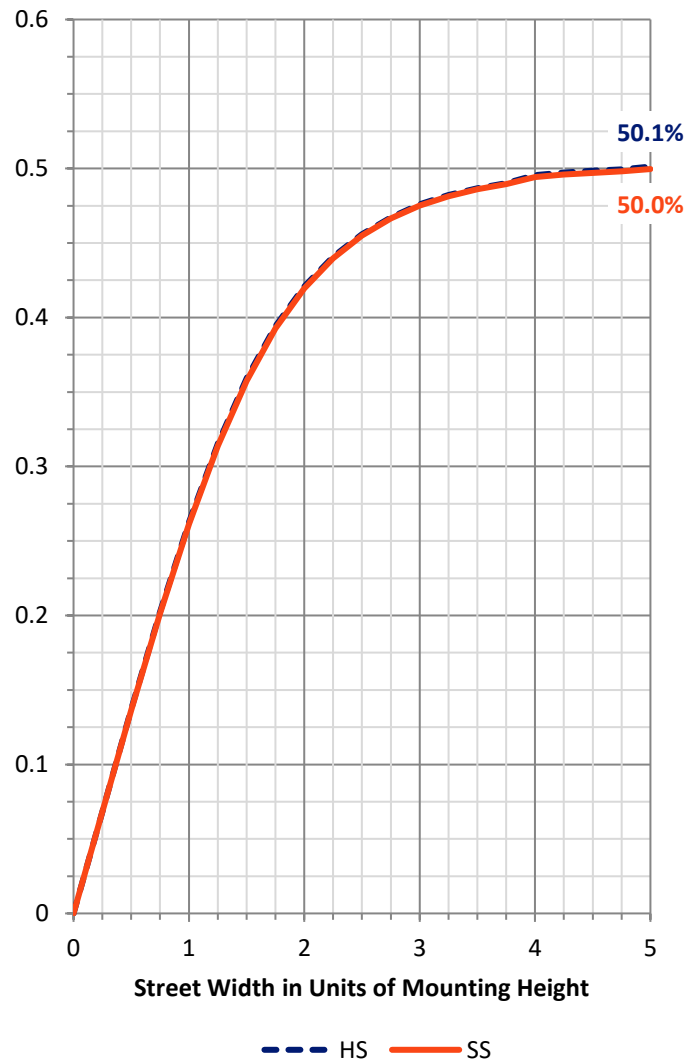
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5325.0	0.0	5325.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5325.0	0.0	5325.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10650.0	0.0	10650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	0.7
10°-20°	243.9	2.3
20°-30°	506.9	4.8
30°-40°	936.1	8.8
40°-50°	1644.6	15.4
50°-60°	2371.9	22.3
60°-70°	2902.9	27.3
70°-80°	1847.2	17.3
80°-90°	125.0	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°	10650.0	100.0
0°-180°	10650.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800127

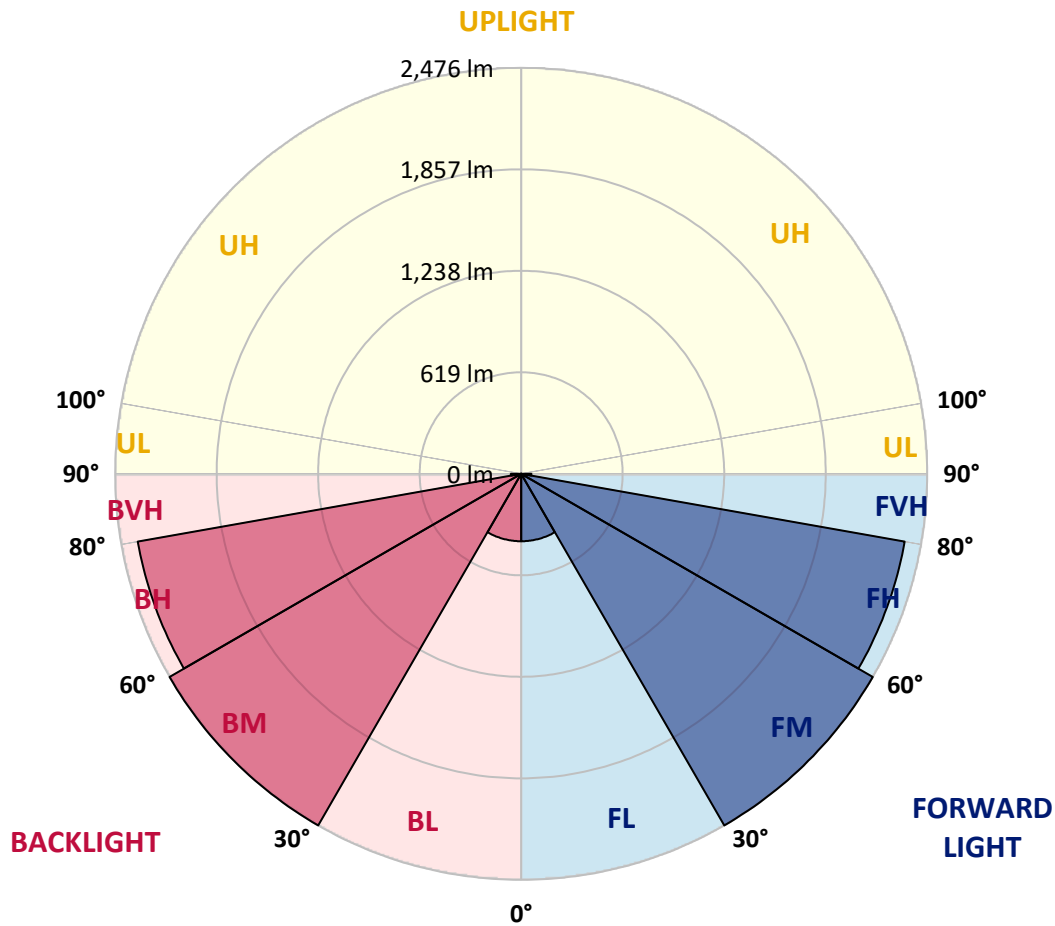
CATALOG NUMBER: ARCH2-80-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.2	3.9			
FM	(30°-60°)	2476.3	23.3			
FH	(60°-80°)	2375.0	22.3			G2/5000
FVH	(80°-90°)	62.5	0.6			G1/100
BL	(0°-30°)	411.2	3.9	B1/500		
BM	(30°-60°)	2476.3	23.3	B2/2500		
BH	(60°-80°)	2375.0	22.3	B3/2500		G2/5000
BVH	(80°-90°)	62.5	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



REPORT NUMBER: P800127

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	742.4	742.4	742.4	742.4	742.4	742.4	742.4	742.4	742.4	742.4	742.4
2.5°	752.3	752.3	750.3	750.3	746.4	744.4	742.4	742.4	740.4	740.4	738.4
5°	756.3	756.3	756.3	754.3	752.3	750.3	746.4	742.4	740.4	738.4	736.5
7.5°	758.2	758.2	756.3	756.3	754.3	752.3	746.4	740.4	738.4	736.5	736.5
10°	774.1	772.1	770.1	766.2	766.2	766.2	758.2	752.3	750.3	750.3	750.3
12.5°	811.7	809.7	805.8	799.8	799.8	801.8	789.9	782.0	782.0	780.0	780.0
15°	867.1	865.1	861.2	851.3	849.3	853.3	835.5	827.5	827.5	827.5	825.6
17.5°	928.5	924.5	918.6	910.7	910.7	910.7	892.9	883.0	877.0	877.0	875.0
20°	980.0	978.0	978.0	976.0	982.0	982.0	958.2	942.4	928.5	920.6	918.6
22.5°	1025.5	1023.5	1027.5	1035.4	1047.3	1051.2	1023.5	999.8	978.0	962.2	958.2
25°	1086.9	1084.9	1082.9	1094.8	1114.6	1120.5	1090.8	1061.1	1039.4	1031.4	1027.5
27.5°	1152.2	1154.2	1156.2	1168.1	1183.9	1193.8	1164.1	1136.4	1118.6	1106.7	1102.7
30°	1225.5	1229.4	1235.4	1253.2	1265.1	1269.0	1243.3	1223.5	1207.6	1197.7	1191.8
32.5°	1318.5	1326.4	1334.4	1350.2	1356.1	1352.2	1340.3	1326.4	1314.6	1300.7	1298.7
35°	1457.1	1465.0	1463.0	1469.0	1471.0	1467.0	1461.1	1453.1	1447.2	1429.4	1427.4
37.5°	1631.3	1639.2	1627.4	1621.4	1607.6	1609.5	1607.6	1613.5	1615.5	1597.7	1595.7
40°	1807.5	1815.4	1799.6	1783.8	1769.9	1764.0	1773.9	1793.7	1793.7	1781.8	1781.8
42.5°	1995.6	2001.5	1975.8	1956.0	1938.2	1934.2	1940.2	1963.9	1969.8	1967.9	1967.9
45°	2183.7	2179.7	2146.0	2126.2	2110.4	2100.5	2102.5	2120.3	2132.2	2138.1	2138.1
47.5°	2328.2	2322.2	2294.5	2278.7	2268.8	2254.9	2254.9	2264.8	2270.8	2272.8	2272.8
50°	2443.0	2437.1	2409.4	2407.4	2407.4	2401.4	2395.5	2393.5	2389.6	2391.5	2391.5
52.5°	2542.0	2534.1	2514.3	2518.2	2536.1	2540.0	2532.1	2516.3	2500.4	2494.5	2496.5
55°	2648.9	2637.0	2621.2	2633.1	2668.7	2684.5	2672.7	2641.0	2613.3	2595.4	2595.4
57.5°	2734.0	2720.2	2720.2	2753.8	2819.2	2850.8	2825.1	2765.7	2718.2	2698.4	2700.4
60°	2674.6	2662.8	2710.3	2858.8	2981.5	3035.0	2991.4	2886.5	2809.3	2785.5	2789.5
62.5°	2557.8	2549.9	2609.3	2839.0	3128.0	3238.9	3173.5	3023.1	2908.2	2880.5	2880.5
65°	2385.6	2383.6	2466.8	2749.9	3161.7	3434.9	3379.4	3171.6	3023.1	2985.5	2993.4
67.5°	2207.4	2207.4	2282.6	2597.4	3122.1	3518.0	3561.6	3306.2	3078.5	2985.5	2987.4
70°	1892.6	1926.3	2126.2	2456.9	2977.5	3458.6	3636.8	3211.2	2837.0	2672.7	2666.7
72.5°	1247.2	1290.8	1688.7	2211.4	2835.0	3242.8	3282.4	2821.1	2355.9	2163.9	2154.0
75°	752.3	789.9	1094.8	1726.3	2492.5	2611.3	2437.1	2211.4	1760.0	1609.5	1609.5
77.5°	221.7	247.5	504.8	1094.8	1724.4	1716.4	1502.6	1302.7	1041.3	884.9	896.8
80°	130.7	134.6	164.3	498.9	714.7	752.3	580.1	362.3	362.3	269.2	261.3
82.5°	101.0	101.0	104.9	124.7	172.2	192.0	146.5	124.7	142.5	120.8	114.8
85°	71.3	71.3	71.3	73.3	75.2	77.2	81.2	83.1	91.1	75.2	71.3
87.5°	21.8	23.8	25.7	29.7	35.6	37.6	39.6	35.6	35.6	33.7	31.7
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)