

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: P800271

Luminaire Tested: **ARCH2-90-730-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800271
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: ARCH2-90-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11908 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 93.7
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



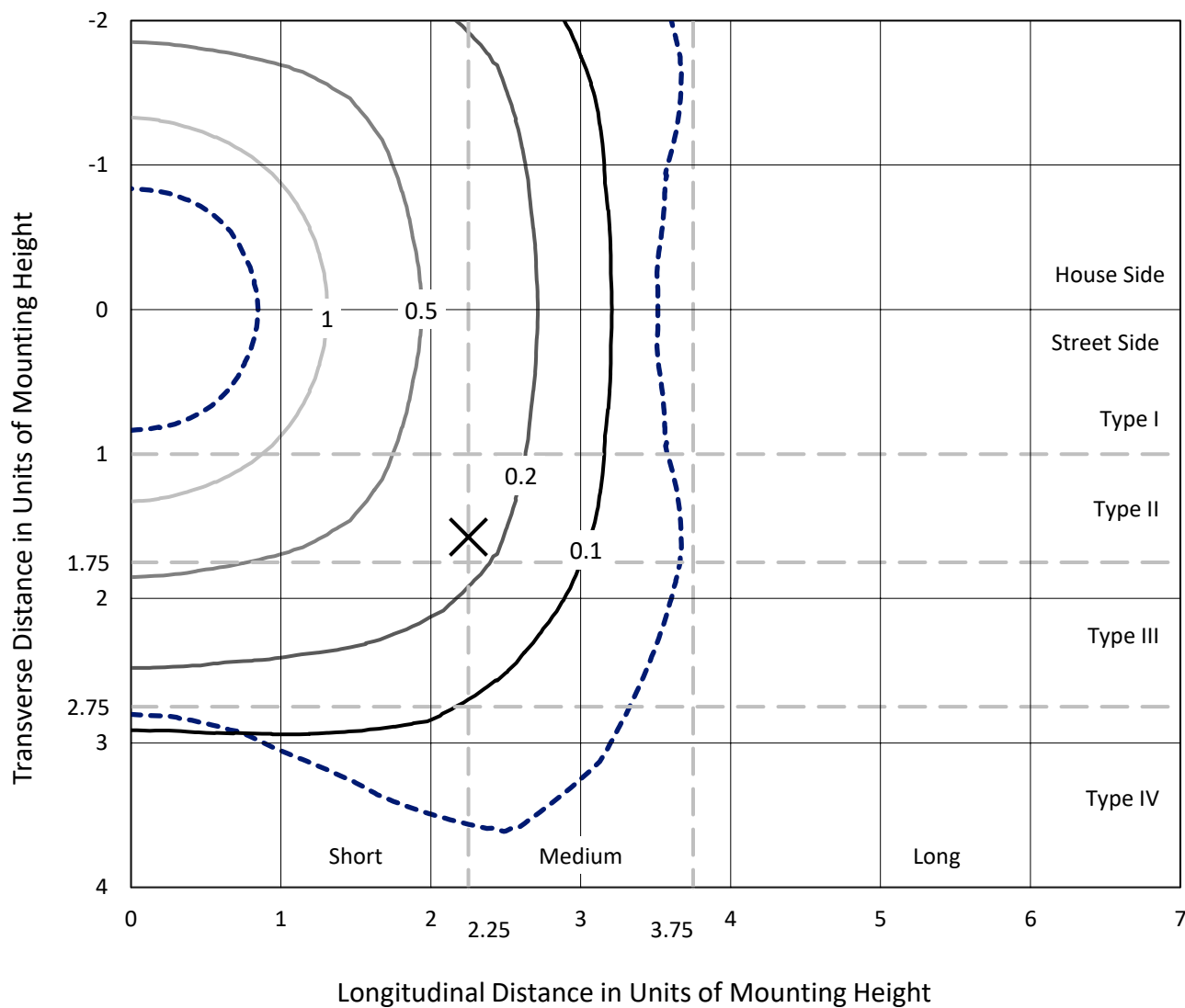
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

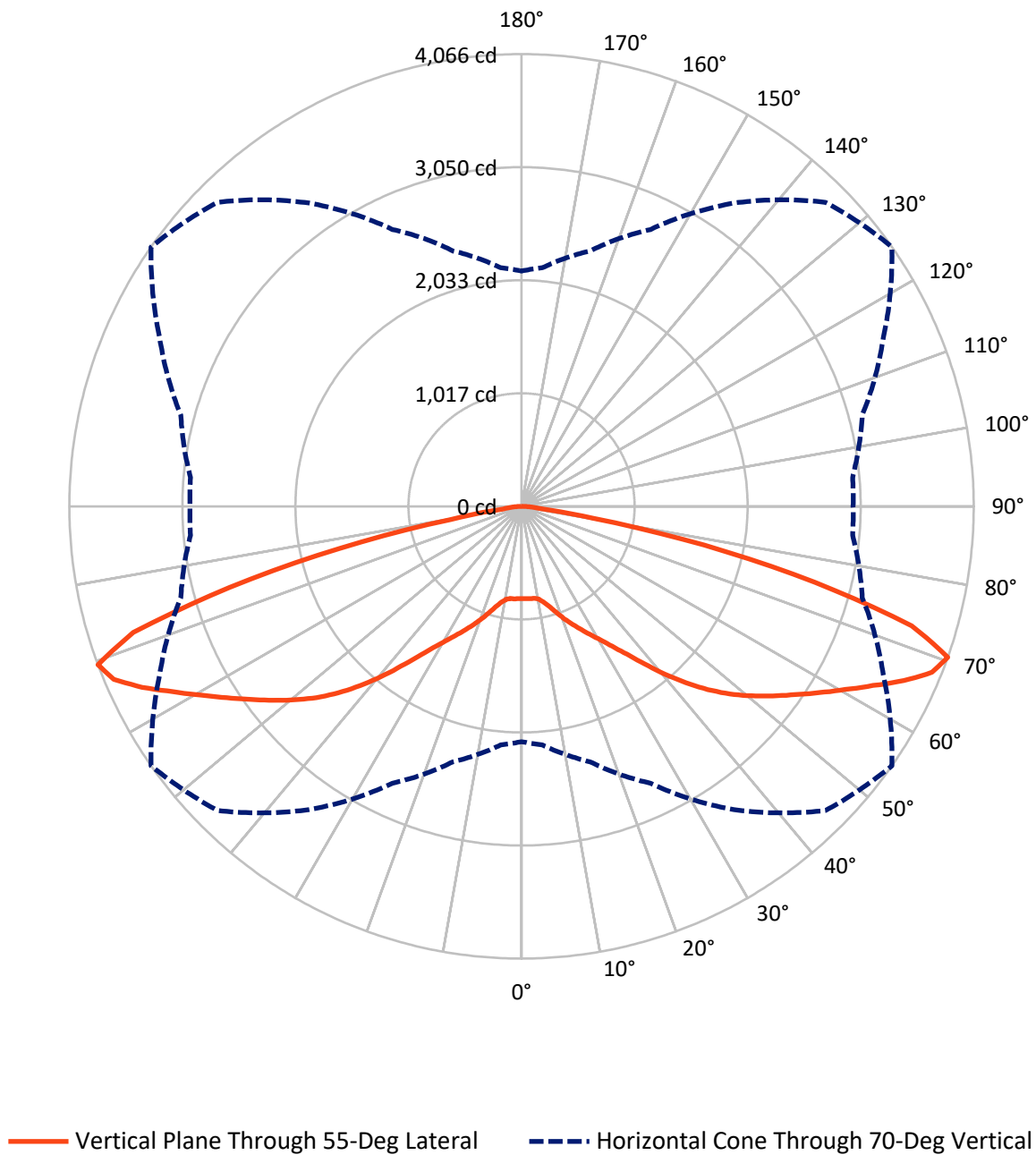


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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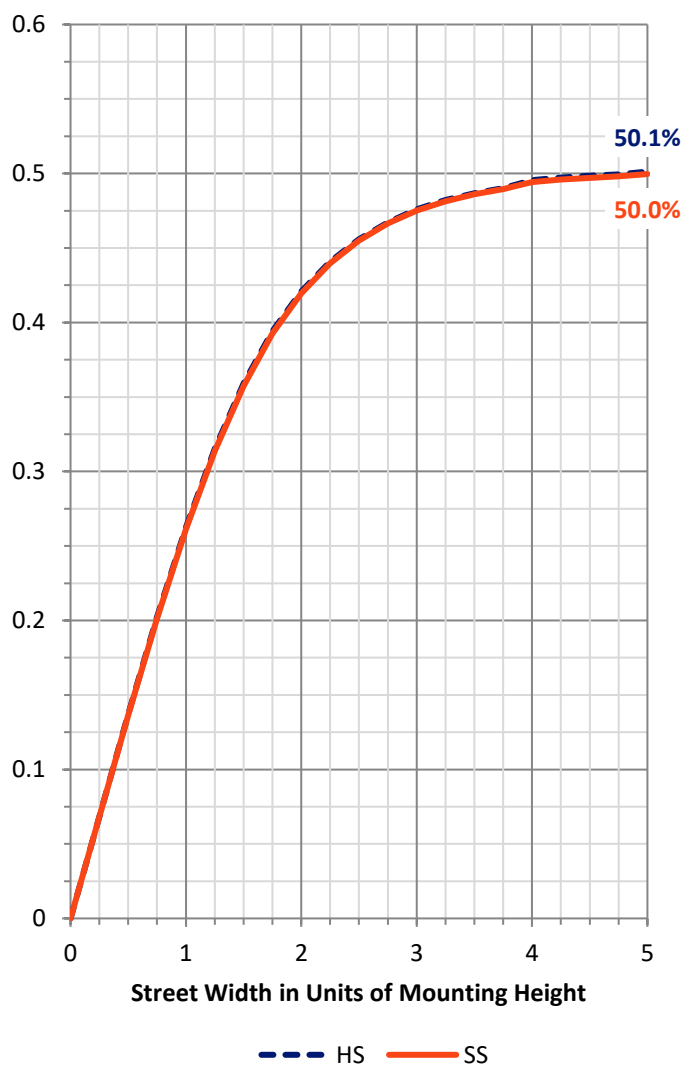
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5954.0	0.0	5954.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5954.0	0.0	5954.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11908.0	0.0	11908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	0.7
10°-20°	272.7	2.3
20°-30°	566.7	4.8
30°-40°	1046.7	8.8
40°-50°	1838.8	15.4
50°-60°	2652.0	22.3
60°-70°	3245.8	27.3
70°-80°	2065.4	17.3
80°-90°	139.7	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°	11908.0	100.0
0°-180°	11908.0	100.0

Coefficient of Utilization



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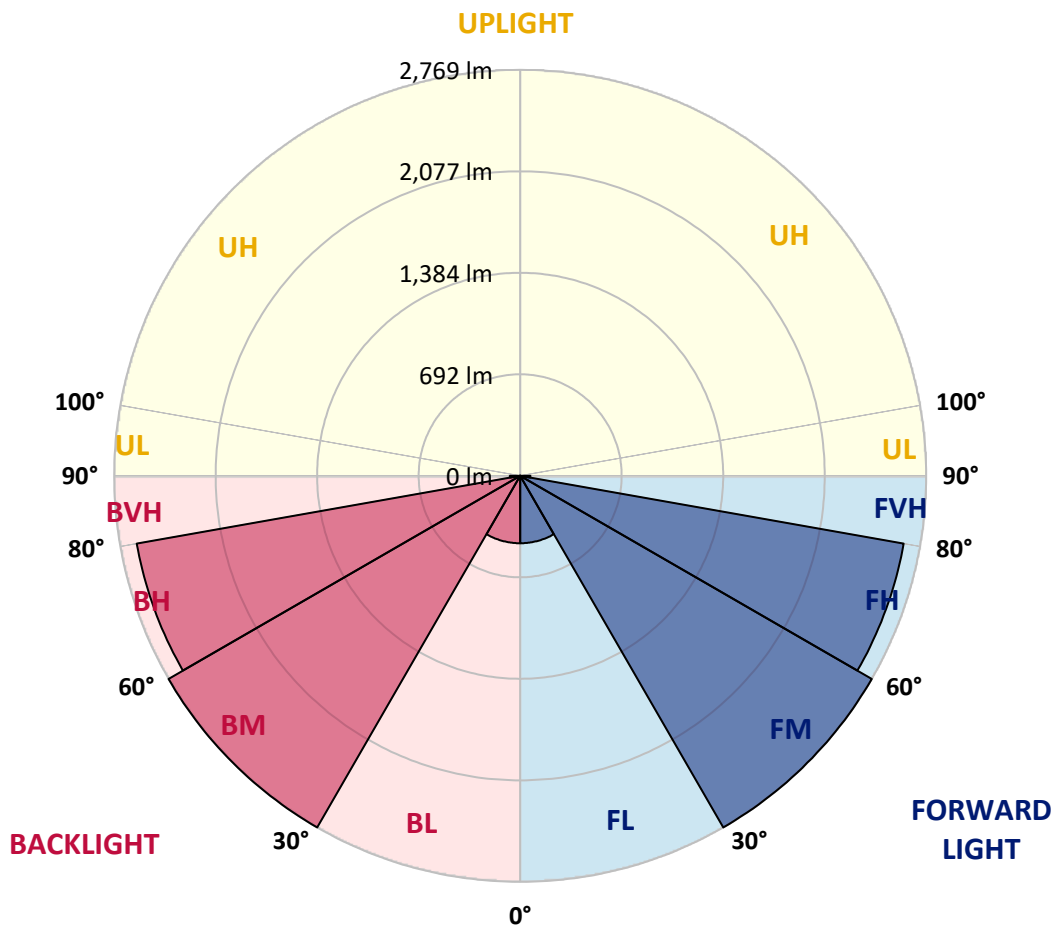
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	459.8	3.9			
FM	(30°-60°)	2768.8	23.3			
FH	(60°-80°)	2655.6	22.3			G2/5000
FVH	(80°-90°)	69.9	0.6			G1/100
BL	(0°-30°)	459.8	3.9	B1/500		
BM	(30°-60°)	2768.8	23.3	B3/5000		
BH	(60°-80°)	2655.6	22.3	B4/5000		G2/5000
BVH	(80°-90°)	69.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	830.1	830.1	830.1	830.1	830.1	830.1	830.1	830.1	830.1	830.1	830.1
2.5°	841.2	841.2	839.0	839.0	834.5	832.3	830.1	830.1	827.9	827.9	825.7
5°	845.6	845.6	845.6	843.4	841.2	839.0	834.5	830.1	827.9	825.7	823.5
7.5°	847.8	847.8	845.6	845.6	843.4	841.2	834.5	827.9	825.7	823.5	823.5
10°	865.5	863.3	861.1	856.7	856.7	856.7	847.8	841.2	839.0	839.0	839.0
12.5°	907.6	905.4	900.9	894.3	894.3	896.5	883.2	874.4	874.4	872.2	872.2
15°	969.6	967.3	962.9	951.8	949.6	954.1	934.1	925.3	925.3	925.3	923.1
17.5°	1038.2	1033.8	1027.1	1018.3	1018.3	1018.3	998.3	987.3	980.6	980.6	978.4
20°	1095.7	1093.5	1093.5	1091.3	1097.9	1097.9	1071.4	1053.7	1038.2	1029.3	1027.1
22.5°	1146.6	1144.4	1148.9	1157.7	1171.0	1175.4	1144.4	1117.9	1093.5	1075.8	1071.4
25°	1215.3	1213.1	1210.8	1224.1	1246.3	1252.9	1219.7	1186.5	1162.1	1153.3	1148.9
27.5°	1288.3	1290.5	1292.7	1306.0	1323.7	1334.8	1301.6	1270.6	1250.7	1237.4	1233.0
30°	1370.2	1374.6	1381.3	1401.2	1414.5	1418.9	1390.1	1368.0	1350.3	1339.2	1332.6
32.5°	1474.3	1483.1	1492.0	1509.7	1516.3	1511.9	1498.6	1483.1	1469.8	1454.3	1452.1
35°	1629.2	1638.1	1635.9	1642.5	1644.7	1640.3	1633.6	1624.8	1618.1	1598.2	1596.0
37.5°	1824.0	1832.9	1819.6	1812.9	1797.4	1799.7	1797.4	1804.1	1806.3	1786.4	1784.2
40°	2021.0	2029.9	2012.2	1994.5	1979.0	1972.3	1983.4	2005.5	2005.5	1992.2	1992.2
42.5°	2231.3	2237.9	2209.2	2187.0	2167.1	2162.7	2169.3	2195.9	2202.5	2200.3	2200.3
45°	2441.6	2437.2	2399.5	2377.4	2359.7	2348.6	2350.8	2370.8	2384.0	2390.7	2390.7
47.5°	2603.2	2596.6	2565.6	2547.9	2536.8	2521.3	2521.3	2532.4	2539.0	2541.2	2541.2
50°	2731.6	2724.9	2694.0	2691.7	2691.7	2685.1	2678.5	2676.2	2671.8	2674.0	2674.0
52.5°	2842.3	2833.4	2811.3	2815.7	2835.6	2840.0	2831.2	2813.5	2795.8	2789.1	2791.3
55°	2961.8	2948.5	2930.8	2944.1	2983.9	3001.6	2988.4	2952.9	2922.0	2902.0	2902.0
57.5°	3057.0	3041.5	3041.5	3079.1	3152.2	3187.6	3158.8	3092.4	3039.3	3017.1	3019.4
60°	2990.6	2977.3	3030.4	3196.4	3333.7	3393.4	3344.7	3227.4	3141.1	3114.5	3119.0
62.5°	2860.0	2851.1	2917.5	3174.3	3497.5	3621.4	3548.4	3380.2	3251.8	3220.8	3220.8
65°	2667.4	2665.2	2758.1	3074.7	3535.1	3840.6	3778.6	3546.2	3380.2	3338.1	3347.0
67.5°	2468.2	2468.2	2552.3	2904.2	3490.8	3933.6	3982.3	3696.7	3442.1	3338.1	3340.3
70°	2116.2	2153.8	2377.4	2747.1	3329.3	3867.2	4066.4	3590.5	3172.1	2988.4	2981.7
72.5°	1394.6	1443.3	1888.2	2472.6	3169.9	3625.9	3670.1	3154.4	2634.2	2419.5	2408.4
75°	841.2	883.2	1224.1	1930.3	2786.9	2919.7	2724.9	2472.6	1967.9	1799.7	1799.7
77.5°	247.9	276.7	564.5	1224.1	1928.0	1919.2	1680.1	1456.5	1164.4	989.5	1002.8
80°	146.1	150.5	183.7	557.8	799.1	841.2	648.6	405.1	405.1	301.0	292.2
82.5°	112.9	112.9	117.3	139.5	192.6	214.7	163.8	139.5	159.4	135.0	128.4
85°	79.7	79.7	79.7	81.9	84.1	86.3	90.8	93.0	101.8	84.1	79.7
87.5°	24.3	26.6	28.8	33.2	39.8	42.1	44.3	39.8	39.8	37.6	35.4
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)