

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: P840928

Luminaire Tested: **ARCH4-110-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840928
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: ARCH4-110-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16404 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

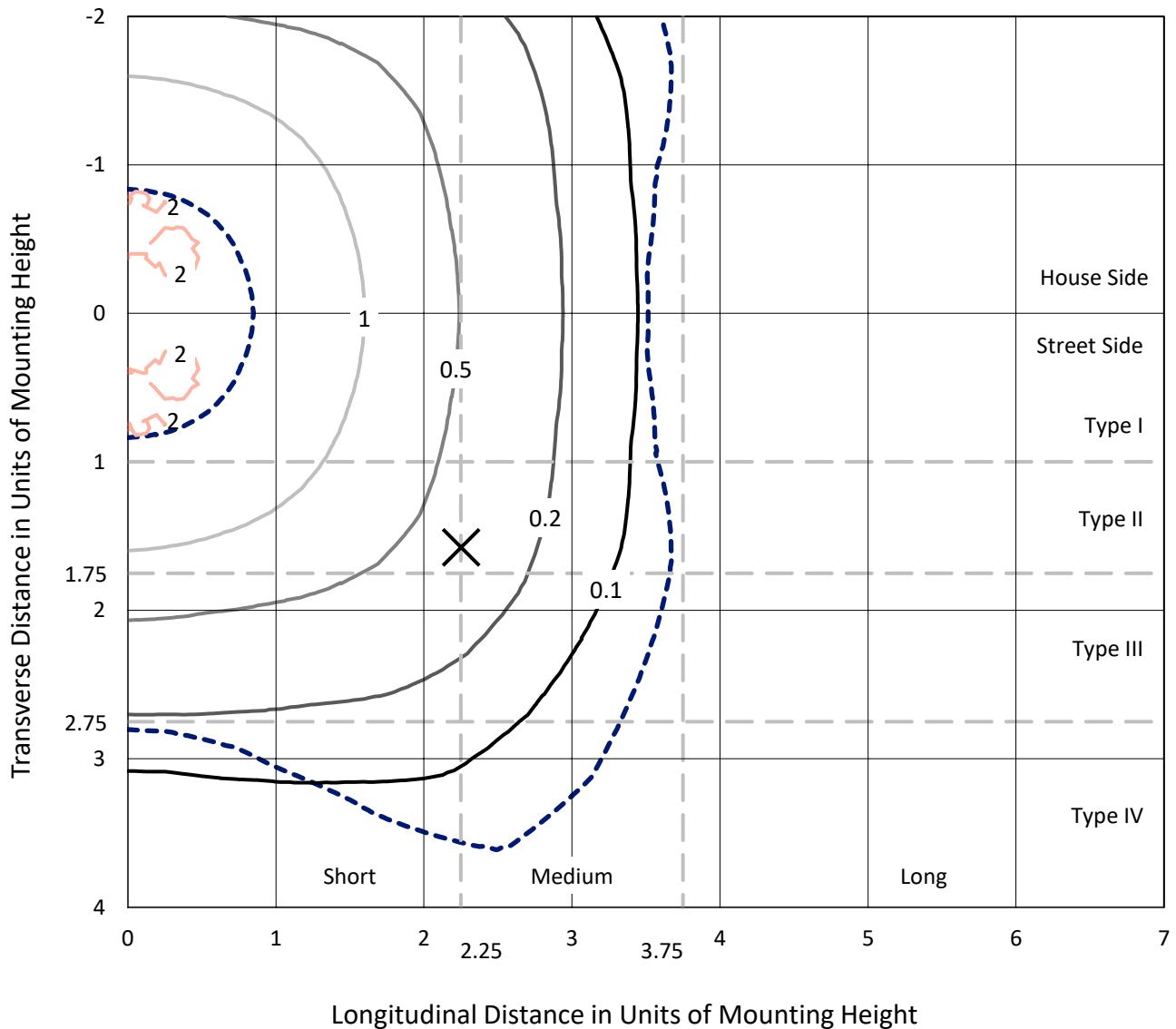
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

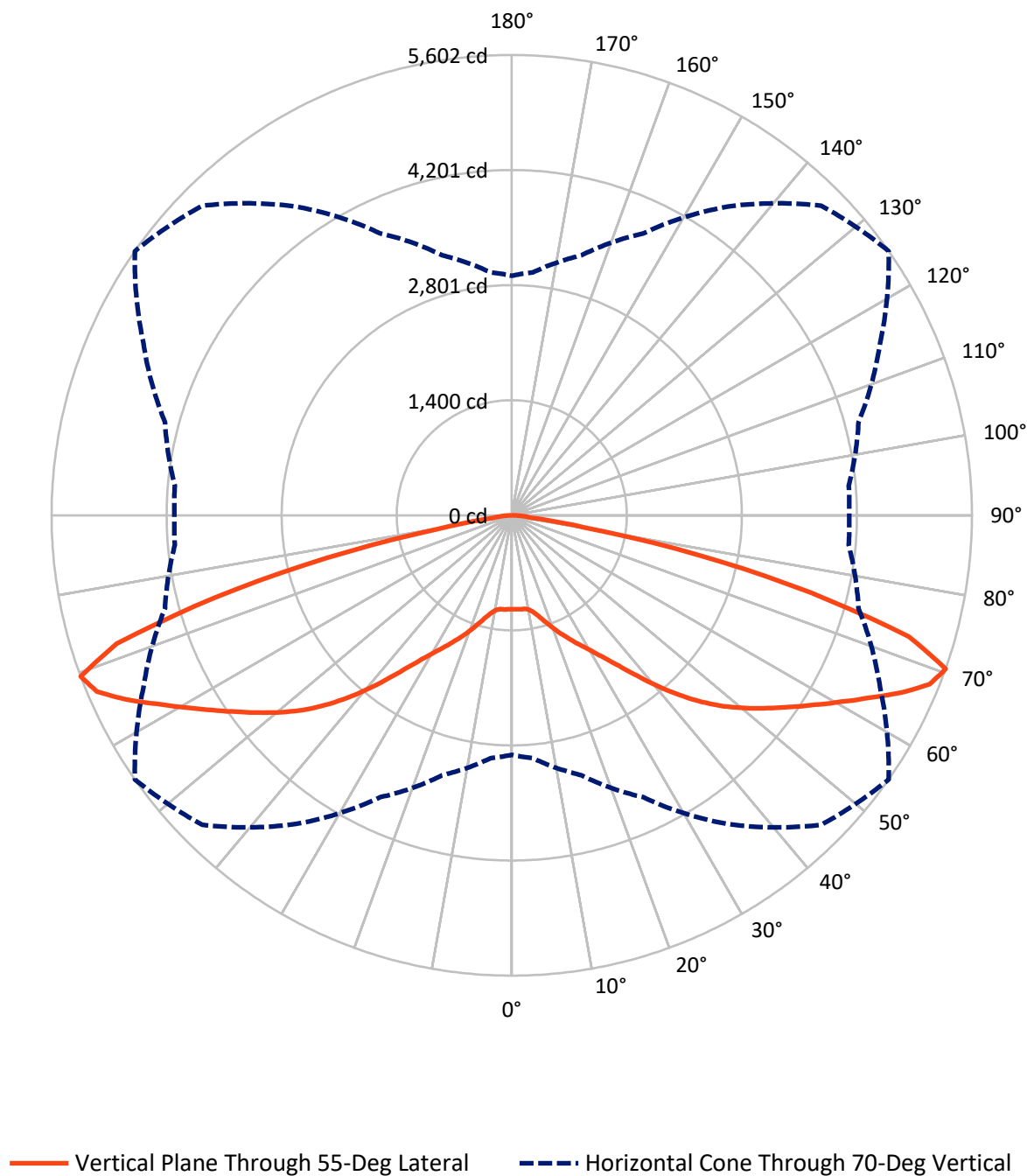
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	8202.0	0.0	8202.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8202.0	0.0	8202.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16404.0	0.0	16404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	0.7
10°-20°	375.7	2.3
20°-30°	780.7	4.8
30°-40°	1441.9	8.8
40°-50°	2533.1	15.4
50°-60°	3653.3	22.3
60°-70°	4471.2	27.3
70°-80°	2845.2	17.3
80°-90°	192.5	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°	16404.0	100.0
0°-180°	16404.0	100.0

Coefficient of Utilization



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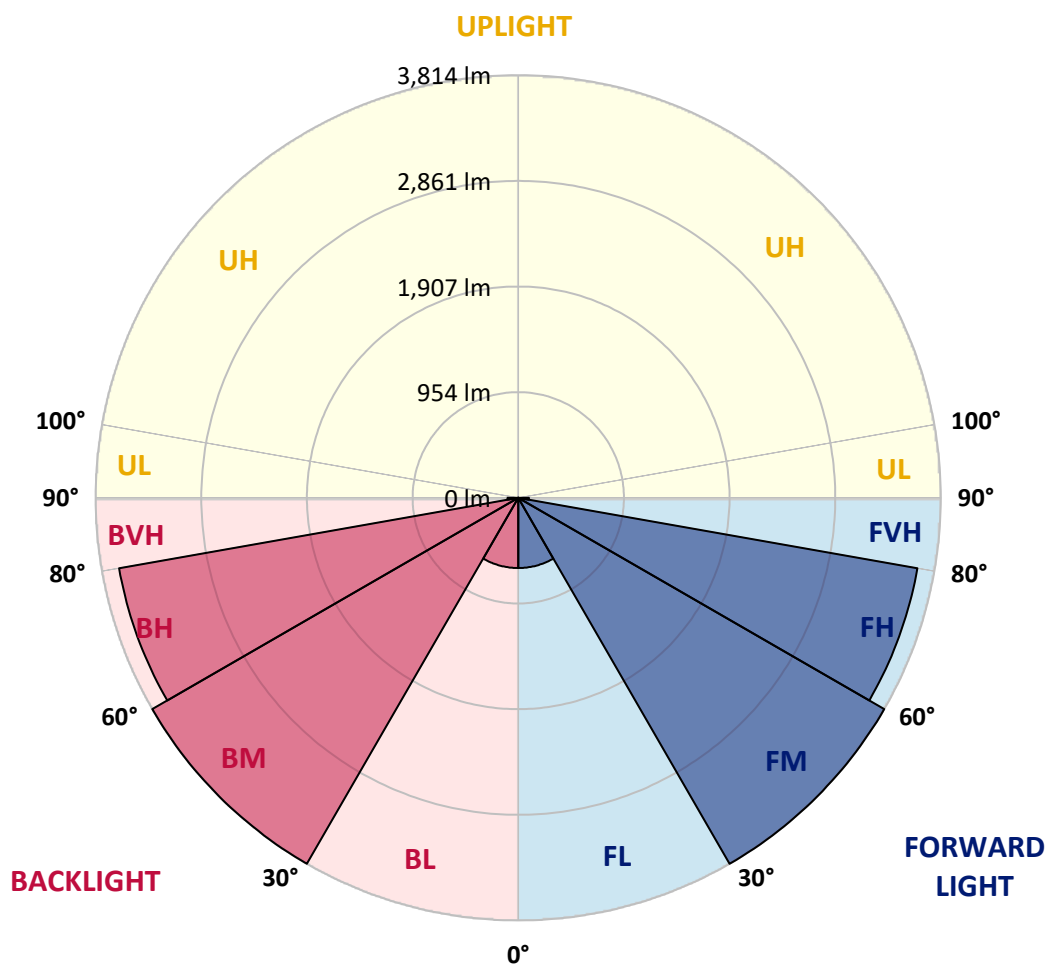
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	633.4	3.9			
FM	(30°-60°)	3814.1	23.3			
FH	(60°-80°)	3658.2	22.3			G2/5000
FVH	(80°-90°)	96.3	0.6			G1/100
BL	(0°-30°)	633.4	3.9	B2/1000		
BM	(30°-60°)	3814.1	23.3	B3/5000		
BH	(60°-80°)	3658.2	22.3	B4/5000		G2/5000
BVH	(80°-90°)	96.3	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°	1143.5	1143.5	1143.5	1143.5	1143.5	1143.5	1143.5	1143.5	1143.5	1143.5	1143.5
2.5°	1158.8	1158.8	1155.7	1155.7	1149.6	1146.6	1143.5	1143.5	1140.5	1140.5	1137.4
5°	1164.9	1164.9	1164.9	1161.8	1158.8	1155.7	1149.6	1143.5	1140.5	1137.4	1134.4
7.5°	1167.9	1167.9	1164.9	1164.9	1161.8	1158.8	1149.6	1140.5	1137.4	1134.4	1134.4
10°	1192.3	1189.3	1186.2	1180.1	1180.1	1180.1	1167.9	1158.8	1155.7	1155.7	1155.7
12.5°	1250.2	1247.2	1241.1	1231.9	1231.9	1235.0	1216.7	1204.5	1204.5	1201.5	1201.5
15°	1335.6	1332.6	1326.5	1311.2	1308.2	1314.3	1286.8	1274.6	1274.6	1274.6	1271.6
17.5°	1430.2	1424.1	1414.9	1402.7	1402.7	1402.7	1375.3	1360.0	1350.9	1350.9	1347.8
20°	1509.4	1506.4	1506.4	1503.3	1512.5	1512.5	1475.9	1451.5	1430.2	1418.0	1414.9
22.5°	1579.6	1576.5	1582.6	1594.8	1613.1	1619.2	1576.5	1539.9	1506.4	1482.0	1475.9
25°	1674.1	1671.1	1668.0	1686.3	1716.8	1725.9	1680.2	1634.5	1600.9	1588.7	1582.6
27.5°	1774.7	1777.8	1780.8	1799.1	1823.5	1838.8	1793.0	1750.3	1722.9	1704.6	1698.5
30°	1887.6	1893.7	1902.8	1930.3	1948.5	1954.6	1915.0	1884.5	1860.1	1844.9	1835.7
32.5°	2030.9	2043.1	2055.3	2079.7	2088.8	2082.7	2064.4	2043.1	2024.8	2003.4	2000.4
35°	2244.3	2256.5	2253.5	2262.6	2265.7	2259.6	2250.4	2238.2	2229.1	2201.6	2198.6
37.5°	2512.7	2524.9	2506.6	2497.4	2476.1	2479.1	2476.1	2485.2	2488.3	2460.8	2457.8
40°	2784.1	2796.3	2771.9	2747.5	2726.1	2717.0	2732.2	2762.7	2762.7	2744.4	2744.4
42.5°	3073.8	3082.9	3043.3	3012.8	2985.3	2979.2	2988.4	3025.0	3034.1	3031.1	3031.1
45°	3363.5	3357.4	3305.5	3275.0	3250.6	3235.4	3238.4	3265.9	3284.2	3293.3	3293.3
47.5°	3586.1	3576.9	3534.2	3509.8	3494.6	3473.2	3473.2	3488.5	3497.6	3500.7	3500.7
50°	3762.9	3753.8	3711.1	3708.0	3708.0	3698.9	3689.7	3686.7	3680.6	3683.6	3683.6
52.5°	3915.4	3903.2	3872.7	3878.8	3906.2	3912.3	3900.1	3875.7	3851.4	3842.2	3845.3
55°	4080.1	4061.8	4037.4	4055.7	4110.6	4134.9	4116.6	4067.9	4025.2	3997.7	3997.7
57.5°	4211.2	4189.8	4189.8	4241.7	4342.3	4391.1	4351.5	4260.0	4186.8	4156.3	4159.3
60°	4119.7	4101.4	4174.6	4403.3	4592.4	4674.7	4607.6	4446.0	4327.1	4290.5	4296.6
62.5°	3939.8	3927.6	4019.1	4372.8	4818.0	4988.8	4888.1	4656.4	4479.5	4436.8	4436.8
65°	3674.5	3671.4	3799.5	4235.6	4869.8	5290.7	5205.3	4885.1	4656.4	4598.4	4610.6
67.5°	3400.0	3400.0	3515.9	4000.8	4808.9	5418.7	5485.8	5092.4	4741.8	4598.4	4601.5
70°	2915.2	2967.0	3275.0	3784.3	4586.3	5327.2	5601.7	4946.1	4369.7	4116.6	4107.5
72.5°	1921.1	1988.2	2601.1	3406.1	4366.7	4994.9	5055.9	4345.4	3628.7	3333.0	3317.7
75°	1158.8	1216.7	1686.3	2659.1	3839.2	4022.1	3753.8	3406.1	2710.9	2479.1	2479.1
77.5°	341.5	381.2	777.6	1686.3	2656.0	2643.8	2314.5	2006.5	1604.0	1363.1	1381.4
80°	201.3	207.4	253.1	768.4	1100.8	1158.8	893.5	558.0	558.0	414.7	402.5
82.5°	155.5	155.5	161.6	192.1	265.3	295.8	225.7	192.1	219.6	186.0	176.9
85°	109.8	109.8	109.8	112.8	115.9	118.9	125.0	128.1	140.3	115.9	109.8
87.5°	33.5	36.6	39.6	45.7	54.9	57.9	61.0	54.9	54.9	51.8	48.8
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)