

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: P842602

Luminaire Tested: **ARCH4-70-730-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842602
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: ARCH4-70-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12614 lumens
Efficiency: N/A
Efficacy: 170.9 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

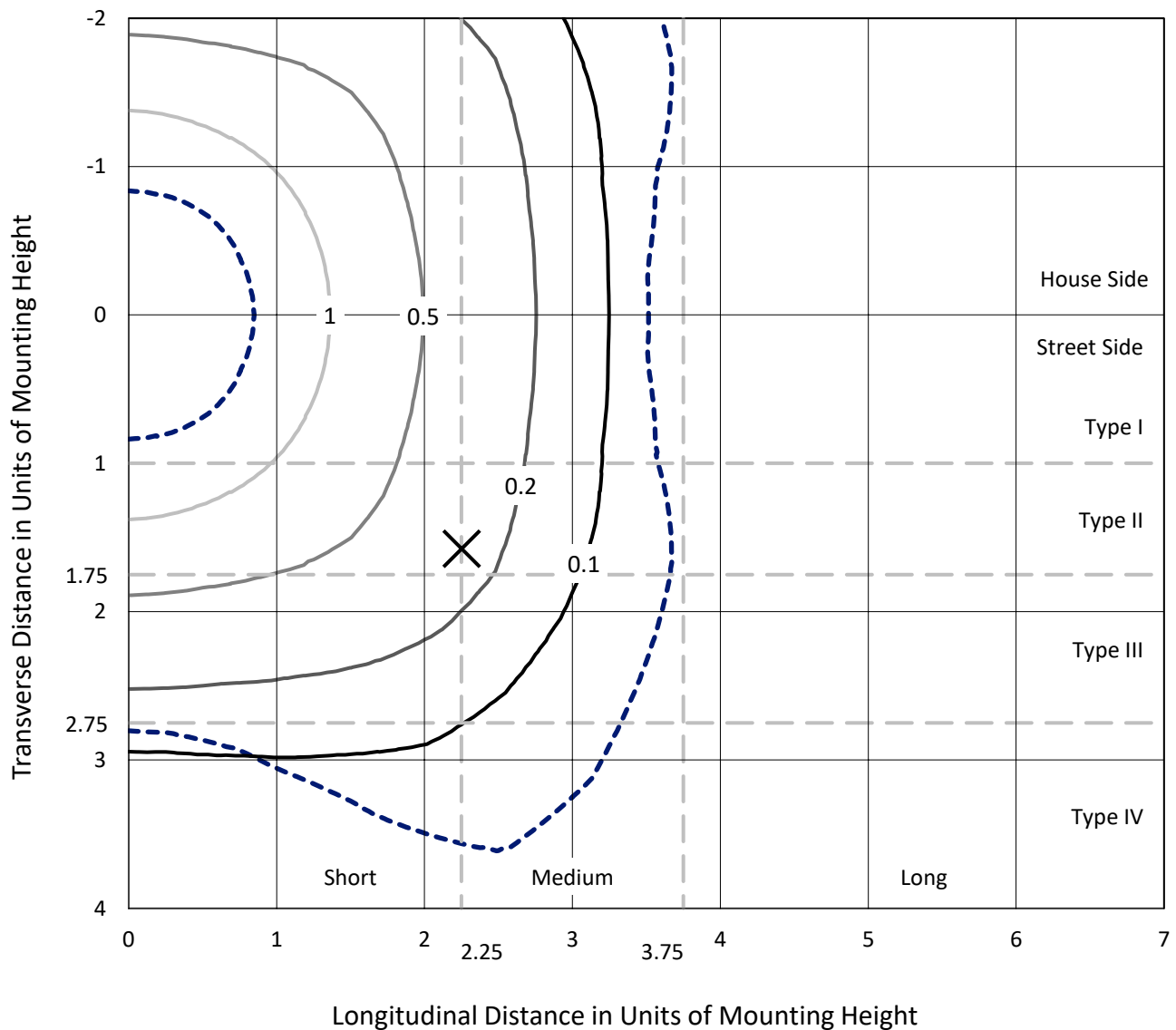
Input Watts (W): 73.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P842602
CATALOG NUMBER: ARCH4-70-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

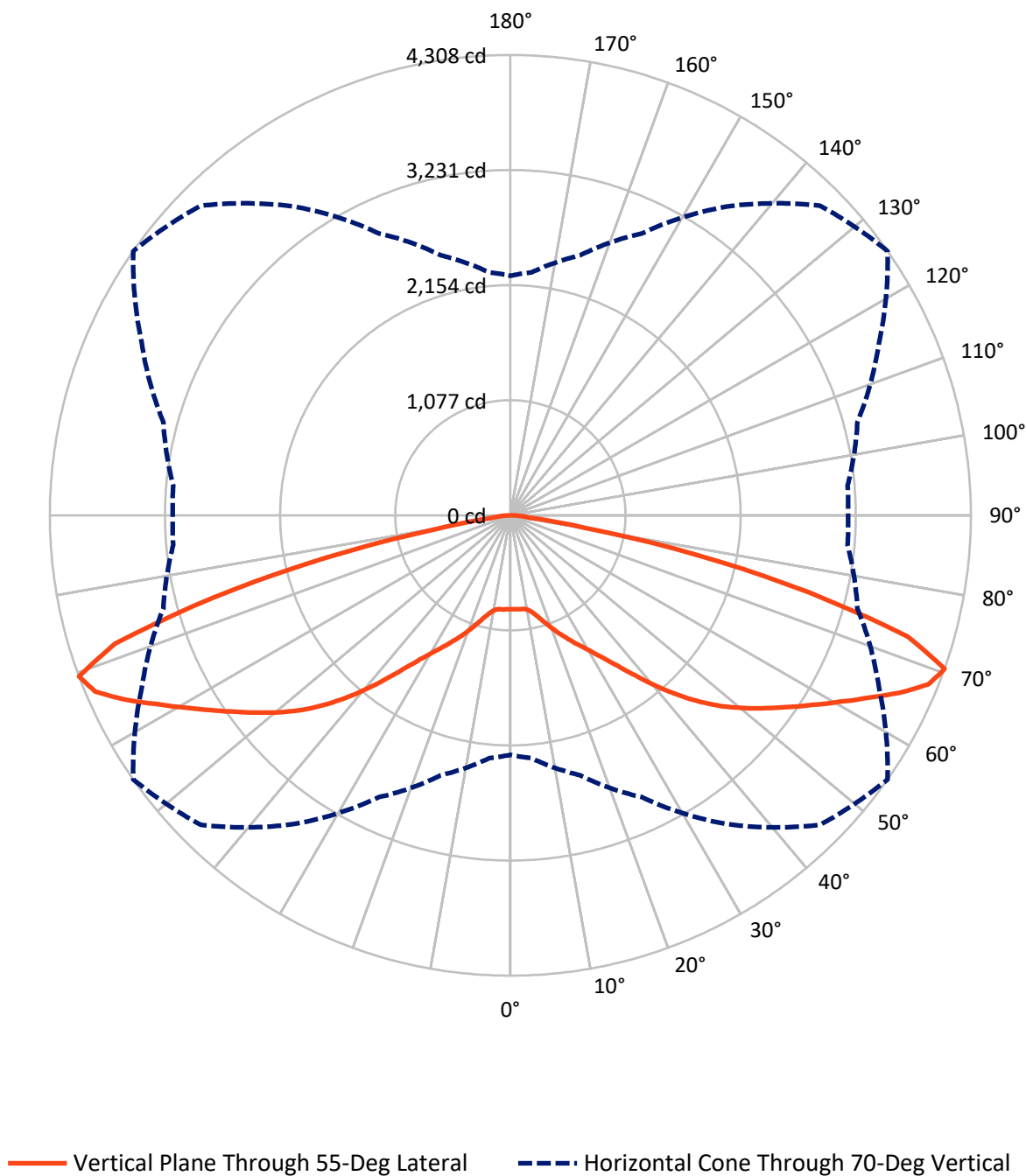


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type V - Medium - N/A

REPORT NUMBER: P842602

CATALOG NUMBER: ARCH4-70-730-U-5WQ

Luminous Intensity Polar Plot



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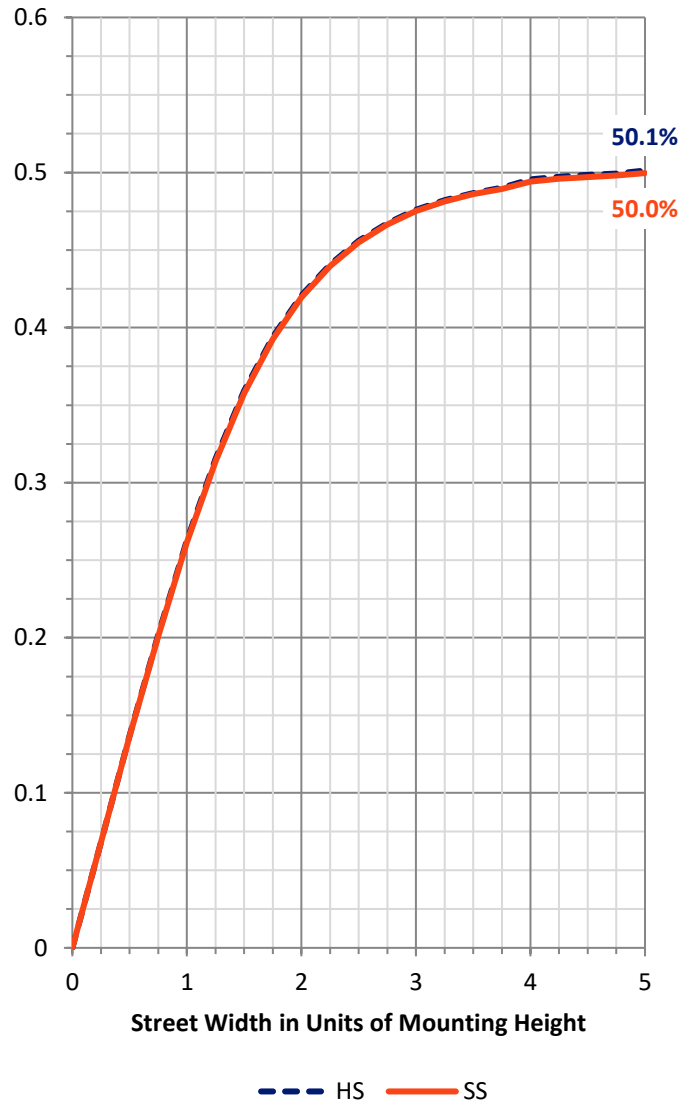
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6307.0	0.0	6307.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6307.0	0.0	6307.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12614.0	0.0	12614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	0.7
10°-20°	288.9	2.3
20°-30°	600.3	4.8
30°-40°	1108.8	8.8
40°-50°	1947.8	15.4
50°-60°	2809.2	22.3
60°-70°	3438.2	27.3
70°-80°	2187.8	17.3
80°-90°	148.0	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°	12614.0	100.0
0°-180°	12614.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842602

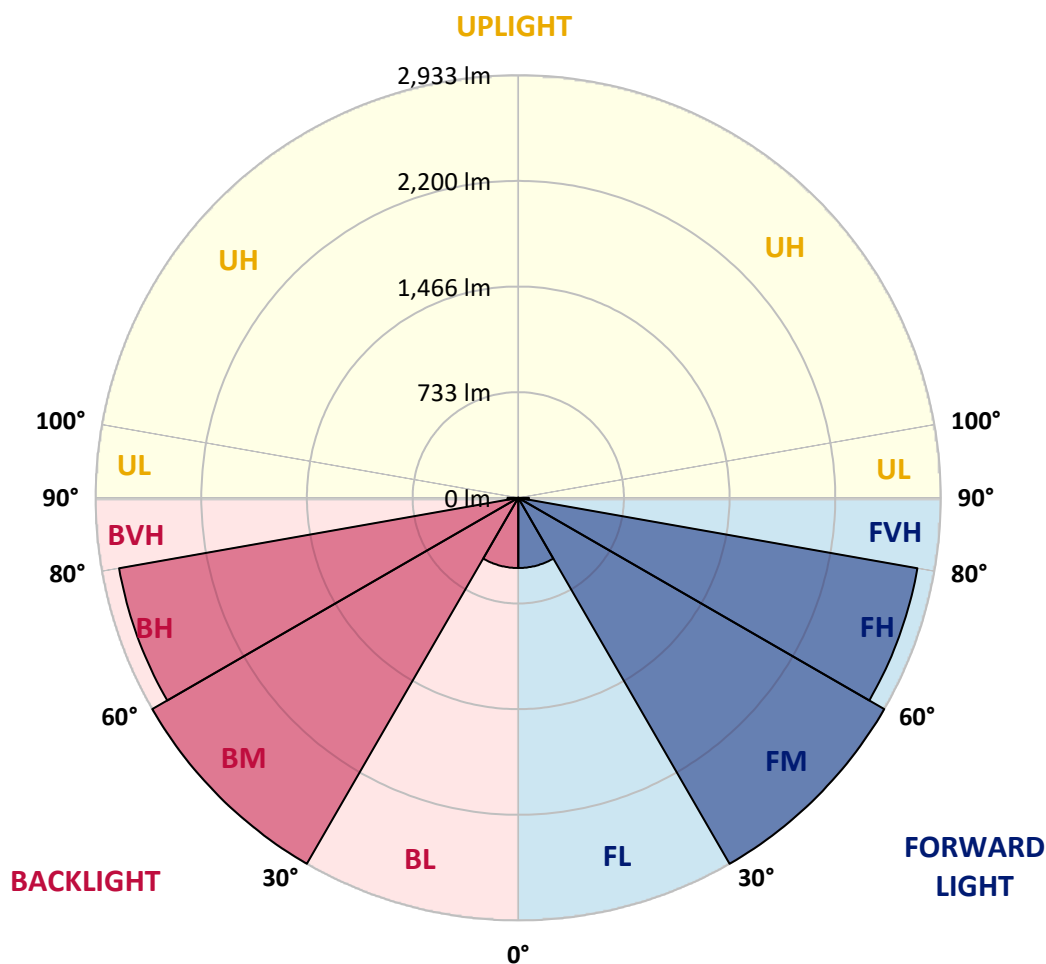
CATALOG NUMBER: ARCH4-70-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	487.1	3.9			
FM	(30°-60°)	2932.9	23.3			
FH	(60°-80°)	2813.0	22.3			G2/5000
FVH	(80°-90°)	74.0	0.6			G1/100
BL	(0°-30°)	487.1	3.9	B1/500		
BM	(30°-60°)	2932.9	23.3	B3/5000		
BH	(60°-80°)	2813.0	22.3	B4/5000		G2/5000
BVH	(80°-90°)	74.0	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°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3
2.5°	891.0	891.0	888.7	888.7	884.0	881.7	879.3	879.3	877.0	877.0	874.6
5°	895.7	895.7	895.7	893.4	891.0	888.7	884.0	879.3	877.0	874.6	872.3
7.5°	898.1	898.1	895.7	895.7	893.4	891.0	884.0	877.0	874.6	872.3	872.3
10°	916.8	914.5	912.1	907.5	907.5	907.5	898.1	891.0	888.7	888.7	888.7
12.5°	961.4	959.0	954.3	947.3	947.3	949.7	935.6	926.2	926.2	923.9	923.9
15°	1027.0	1024.7	1020.0	1008.3	1005.9	1010.6	989.5	980.1	980.1	980.1	977.8
17.5°	1099.7	1095.0	1088.0	1078.6	1078.6	1078.6	1057.5	1045.8	1038.8	1038.8	1036.4
20°	1160.7	1158.4	1158.4	1156.0	1163.0	1163.0	1134.9	1116.1	1099.7	1090.4	1088.0
22.5°	1214.6	1212.3	1217.0	1226.4	1240.4	1245.1	1212.3	1184.1	1158.4	1139.6	1134.9
25°	1287.3	1285.0	1282.6	1296.7	1320.1	1327.2	1292.0	1256.8	1231.0	1221.7	1217.0
27.5°	1364.7	1367.0	1369.4	1383.5	1402.2	1413.9	1378.8	1345.9	1324.8	1310.8	1306.1
30°	1451.5	1456.1	1463.2	1484.3	1498.4	1503.0	1472.6	1449.1	1430.4	1418.6	1411.6
32.5°	1561.7	1571.0	1580.4	1599.2	1606.2	1601.5	1587.5	1571.0	1557.0	1540.6	1538.2
35°	1725.8	1735.2	1732.8	1739.9	1742.2	1737.5	1730.5	1721.1	1714.1	1693.0	1690.6
37.5°	1932.1	1941.5	1927.5	1920.4	1904.0	1906.4	1904.0	1911.0	1913.4	1892.3	1889.9
40°	2140.8	2150.2	2131.5	2112.7	2096.3	2089.3	2101.0	2124.4	2124.4	2110.4	2110.4
42.5°	2363.6	2370.6	2340.1	2316.7	2295.6	2290.9	2297.9	2326.1	2333.1	2330.8	2330.8
45°	2586.4	2581.7	2541.8	2518.4	2499.6	2487.9	2490.2	2511.3	2525.4	2532.4	2532.4
47.5°	2757.5	2750.5	2717.7	2698.9	2687.2	2670.8	2670.8	2682.5	2689.5	2691.9	2691.9
50°	2893.5	2886.5	2853.7	2851.3	2851.3	2844.3	2837.3	2834.9	2830.2	2832.6	2832.6
52.5°	3010.8	3001.4	2977.9	2982.6	3003.7	3008.4	2999.0	2980.3	2961.5	2954.5	2956.8
55°	3137.4	3123.3	3104.6	3118.6	3160.8	3179.6	3165.5	3128.0	3095.2	3074.1	3074.1
57.5°	3238.2	3221.8	3221.8	3261.7	3339.1	3376.6	3346.1	3275.7	3219.5	3196.0	3198.4
60°	3167.9	3153.8	3210.1	3385.9	3531.3	3594.6	3543.1	3418.8	3327.3	3299.2	3303.9
62.5°	3029.5	3020.2	3090.5	3362.5	3704.8	3836.2	3758.8	3580.6	3444.6	3411.7	3411.7
65°	2825.5	2823.2	2921.7	3257.0	3744.7	4068.3	4002.6	3756.4	3580.6	3536.0	3545.4
67.5°	2614.5	2614.5	2703.6	3076.4	3697.8	4166.8	4218.4	3915.9	3646.2	3536.0	3538.4
70°	2241.7	2281.5	2518.4	2909.9	3526.6	4096.4	4307.5	3803.3	3360.2	3165.5	3158.5
72.5°	1477.2	1528.8	2000.1	2619.2	3357.8	3840.8	3887.7	3341.4	2790.4	2562.9	2551.2
75°	891.0	935.6	1296.7	2044.7	2952.2	3092.8	2886.5	2619.2	2084.6	1906.4	1906.4
77.5°	262.6	293.1	597.9	1296.7	2042.4	2033.0	1779.7	1542.9	1233.4	1048.1	1062.2
80°	154.8	159.4	194.6	590.9	846.5	891.0	687.0	429.1	429.1	318.9	309.5
82.5°	119.6	119.6	124.3	147.7	204.0	227.4	173.5	147.7	168.8	143.0	136.0
85°	84.4	84.4	84.4	86.8	89.1	91.4	96.1	98.5	107.9	89.1	84.4
87.5°	25.8	28.1	30.5	35.2	42.2	44.6	46.9	42.2	42.2	39.9	37.5
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)