

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: P836746

Luminaire Tested: **ARCH3-70-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11258 lumens
Efficiency: N/A
Efficacy: 154.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 73.1
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



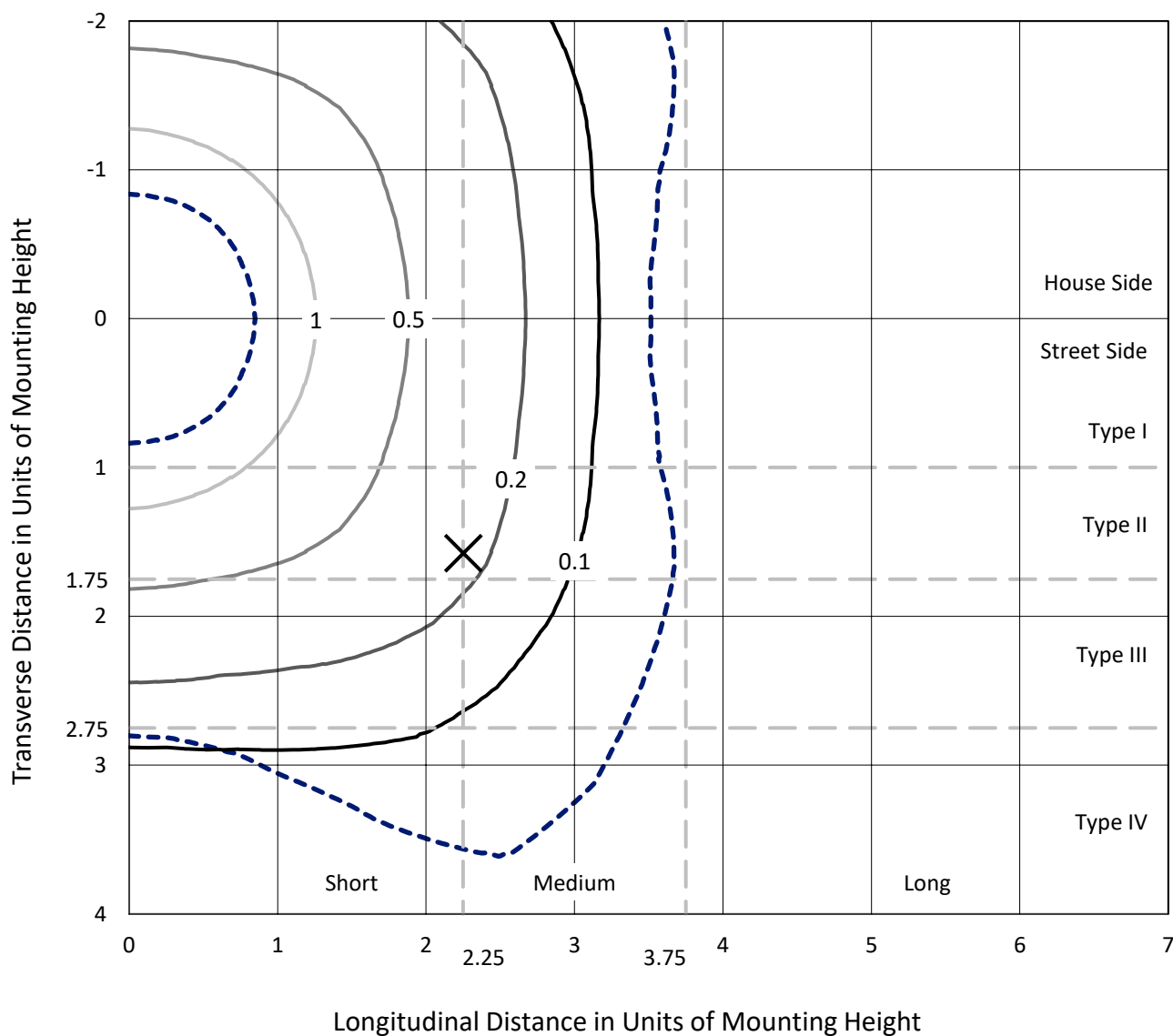
REPORT NUMBER: P836746

CATALOG NUMBER: ARCH3-70-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

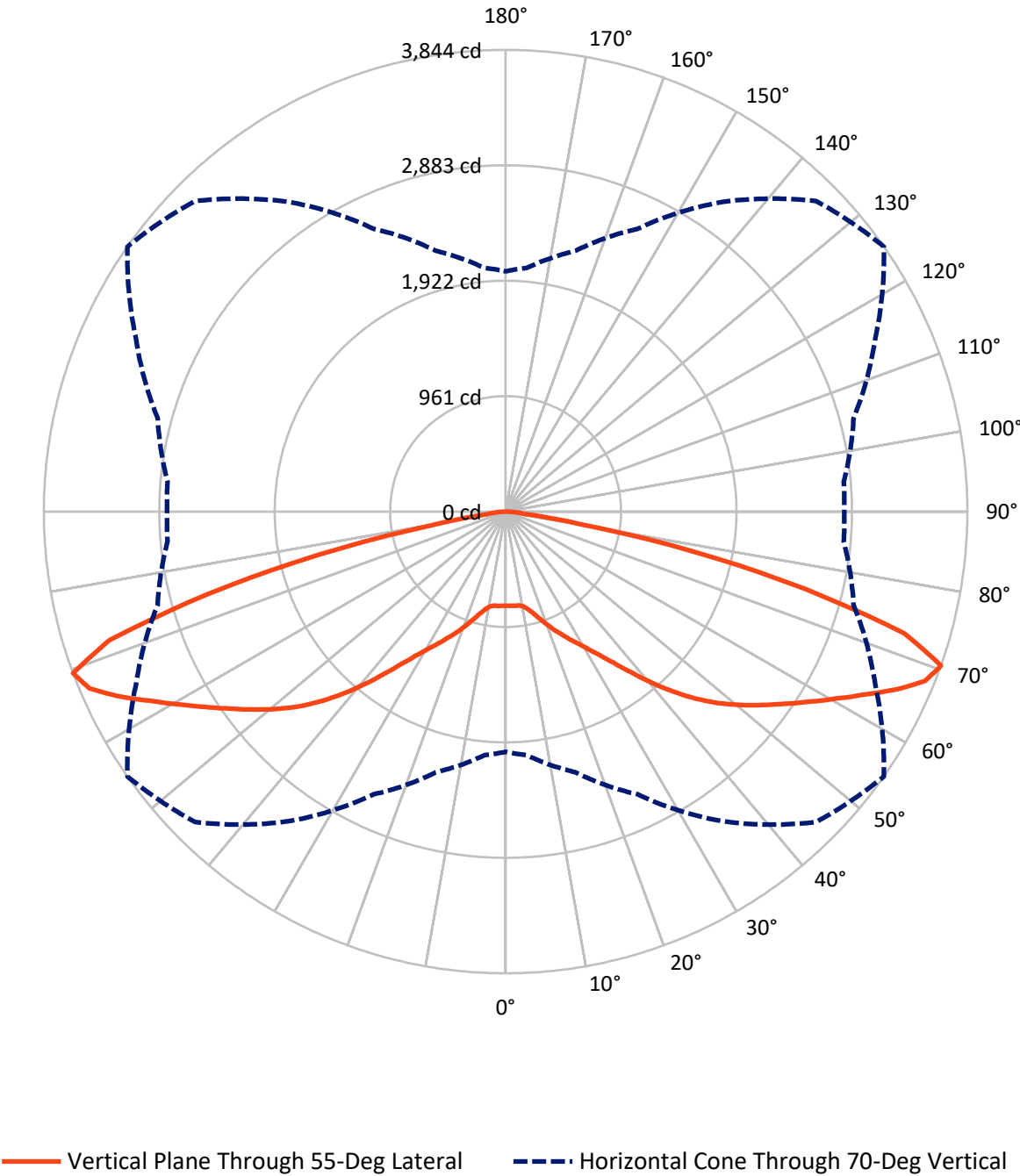
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type V - Medium - N/A

REPORT NUMBER: P836746
CATALOG NUMBER: ARCH3-70-727-U-5WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P836746

CATALOG NUMBER: ARCH3-70-727-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5629.0	0.0	5629.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5629.0	0.0	5629.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11258.0	0.0	11258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	0.7
10°-20°	257.9	2.3
20°-30°	535.8	4.8
30°-40°	989.6	8.8
40°-50°	1738.4	15.4
50°-60°	2507.3	22.3
60°-70°	3068.6	27.3
70°-80°	1952.6	17.3
80°-90°	132.1	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°	11258.0	100.0
0°-180°	11258.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836746

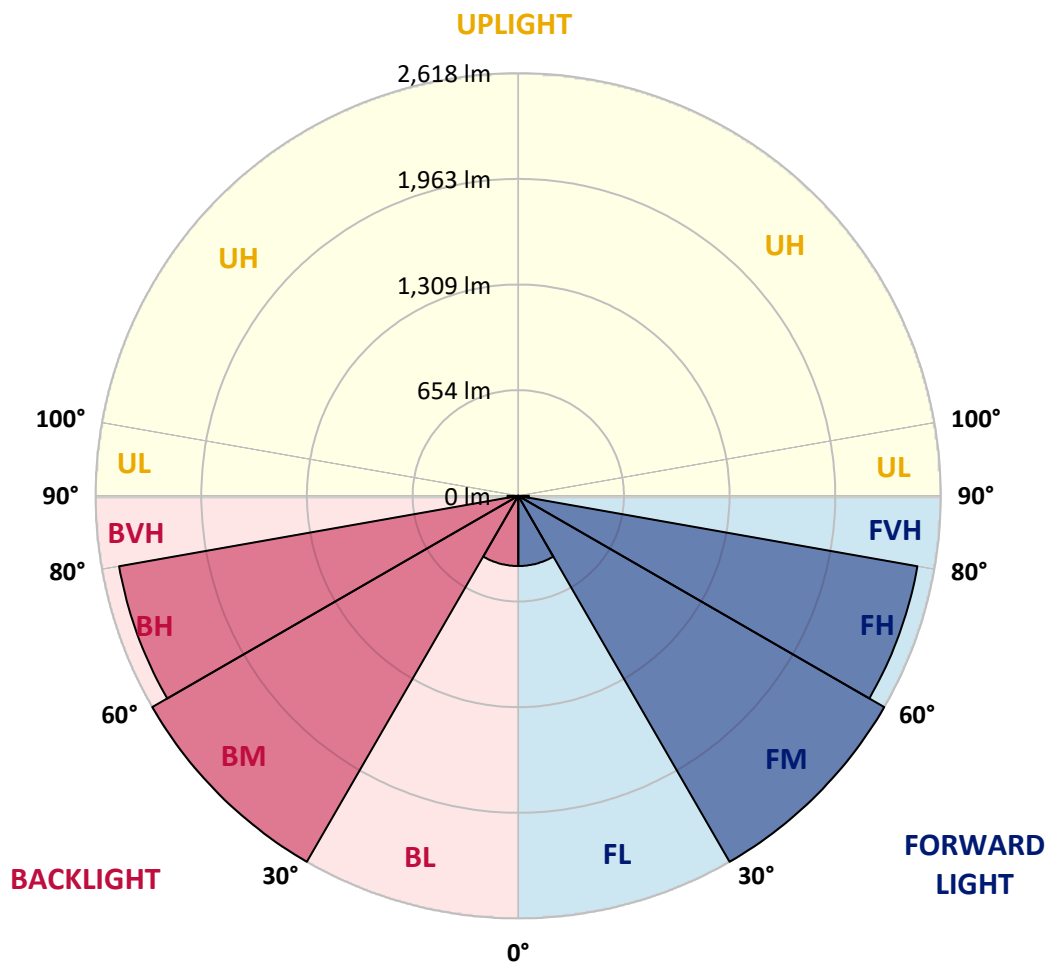
CATALOG NUMBER: ARCH3-70-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.7	3.9			
FM	(30°-60°)	2617.6	23.3			
FH	(60°-80°)	2510.6	22.3			G2/5000
FVH	(80°-90°)	66.1	0.6			G1/100
BL	(0°-30°)	434.7	3.9	B1/500		
BM	(30°-60°)	2617.6	23.3	B3/5000		
BH	(60°-80°)	2510.6	22.3	B4/5000		G2/5000
BVH	(80°-90°)	66.1	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



REPORT NUMBER: P836746

CATALOG NUMBER: ARCH3-70-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8
2.5°	795.3	795.3	793.2	793.2	789.0	786.9	784.8	784.8	782.7	782.7	780.6
5°	799.4	799.4	799.4	797.3	795.3	793.2	789.0	784.8	782.7	780.6	778.5
7.5°	801.5	801.5	799.4	799.4	797.3	795.3	789.0	782.7	780.6	778.5	778.5
10°	818.3	816.2	814.1	809.9	809.9	809.9	801.5	795.3	793.2	793.2	793.2
12.5°	858.0	855.9	851.8	845.5	845.5	847.6	835.0	826.6	826.6	824.6	824.6
15°	916.6	914.5	910.4	899.9	897.8	902.0	883.1	874.8	874.8	874.8	872.7
17.5°	981.5	977.3	971.0	962.7	962.7	962.7	943.8	933.4	927.1	927.1	925.0
20°	1035.9	1033.8	1033.8	1031.7	1038.0	1038.0	1012.9	996.2	981.5	973.1	971.0
22.5°	1084.1	1082.0	1086.1	1094.5	1107.1	1111.3	1082.0	1056.8	1033.8	1017.1	1012.9
25°	1148.9	1146.8	1144.7	1157.3	1178.2	1184.5	1153.1	1121.7	1098.7	1090.3	1086.1
27.5°	1218.0	1220.1	1222.2	1234.7	1251.5	1261.9	1230.5	1201.3	1182.4	1169.9	1165.7
30°	1295.4	1299.6	1305.9	1324.7	1337.3	1341.5	1314.3	1293.3	1276.6	1266.1	1259.8
32.5°	1393.8	1402.2	1410.5	1427.3	1433.5	1429.4	1416.8	1402.2	1389.6	1374.9	1372.9
35°	1540.3	1548.6	1546.6	1552.8	1554.9	1550.7	1544.5	1536.1	1529.8	1511.0	1508.9
37.5°	1724.4	1732.8	1720.3	1714.0	1699.3	1701.4	1699.3	1705.6	1707.7	1688.9	1686.8
40°	1910.7	1919.1	1902.3	1885.6	1870.9	1864.7	1875.1	1896.0	1896.0	1883.5	1883.5
42.5°	2109.5	2115.8	2088.6	2067.7	2048.8	2044.6	2050.9	2076.0	2082.3	2080.2	2080.2
45°	2308.3	2304.1	2268.6	2247.6	2230.9	2220.4	2222.5	2241.4	2253.9	2260.2	2260.2
47.5°	2461.1	2454.8	2425.5	2408.8	2398.3	2383.7	2383.7	2394.1	2400.4	2402.5	2402.5
50°	2582.5	2576.2	2546.9	2544.8	2544.8	2538.5	2532.3	2530.2	2526.0	2528.1	2528.1
52.5°	2687.1	2678.7	2657.8	2662.0	2680.8	2685.0	2676.7	2659.9	2643.2	2636.9	2639.0
55°	2800.1	2787.6	2770.8	2783.4	2821.1	2837.8	2825.2	2791.8	2762.5	2743.6	2743.6
57.5°	2890.1	2875.5	2875.5	2911.0	2980.1	3013.6	2986.4	2923.6	2873.4	2852.4	2854.5
60°	2827.3	2814.8	2865.0	3022.0	3151.7	3208.2	3162.2	3051.3	2969.6	2944.5	2948.7
62.5°	2703.9	2695.5	2758.3	3001.0	3306.6	3423.8	3354.7	3195.7	3074.3	3045.0	3045.0
65°	2521.8	2519.7	2607.6	2906.9	3342.2	3631.0	3572.4	3352.6	3195.7	3155.9	3164.3
67.5°	2333.4	2333.4	2413.0	2745.7	3300.3	3718.9	3764.9	3494.9	3254.3	3155.9	3158.0
70°	2000.7	2036.3	2247.6	2597.1	3147.5	3656.1	3844.4	3394.5	2998.9	2825.2	2819.0
72.5°	1318.4	1364.5	1785.1	2337.6	2996.8	3428.0	3469.8	2982.2	2490.4	2287.4	2276.9
75°	795.3	835.0	1157.3	1824.9	2634.8	2760.4	2576.2	2337.6	1860.5	1701.4	1701.4
77.5°	234.4	261.6	533.7	1157.3	1822.8	1814.4	1588.4	1377.0	1100.8	935.5	948.0
80°	138.1	142.3	173.7	527.4	755.5	795.3	613.2	383.0	383.0	284.6	276.2
82.5°	106.7	106.7	110.9	131.8	182.1	203.0	154.9	131.8	150.7	127.7	121.4
85°	75.3	75.3	75.3	77.4	79.5	81.6	85.8	87.9	96.3	79.5	75.3
87.5°	23.0	25.1	27.2	31.4	37.7	39.8	41.9	37.7	37.7	35.6	33.5
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)