

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: P842665

Luminaire Tested: **ARCH4-80-727-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842665
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: ARCH4-80-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13685 lumens
Efficiency: N/A
Efficacy: 164.1 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

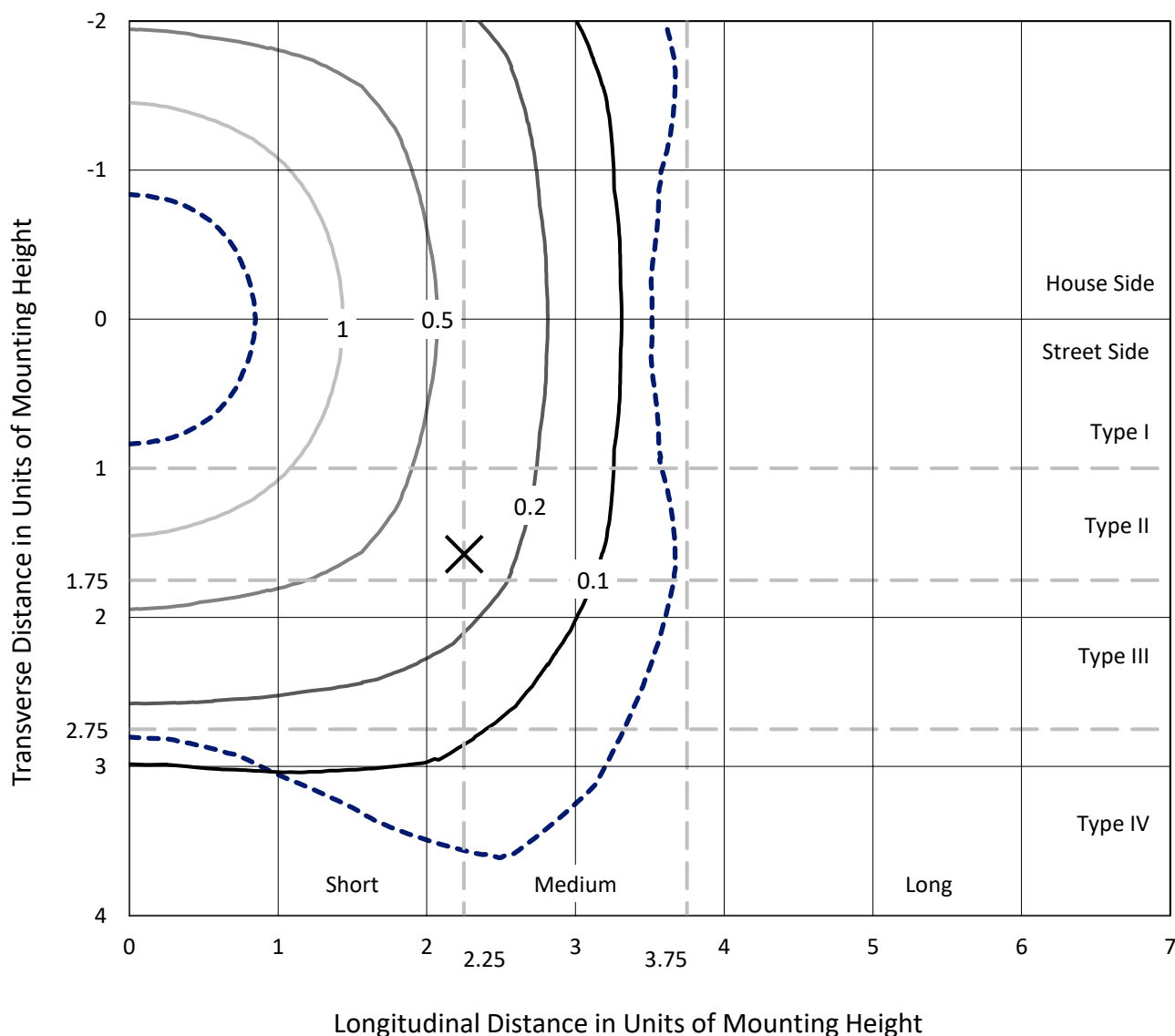
Input Watts (W): 83.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

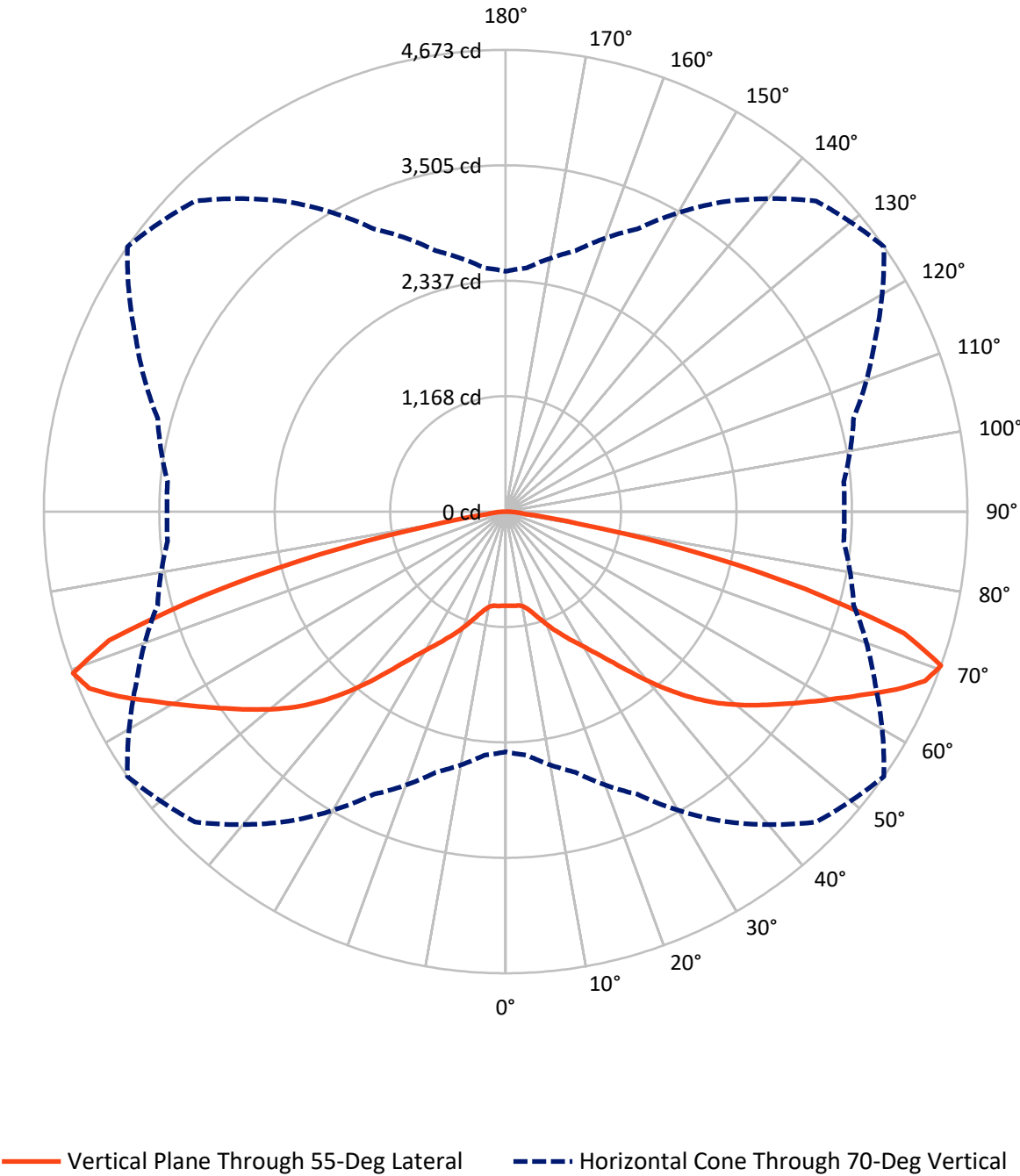
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	6842.5	0.0	6842.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6842.5	0.0	6842.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13685.0	0.0	13685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	0.7
10°-20°	313.4	2.3
20°-30°	651.3	4.8
30°-40°	1202.9	8.8
40°-50°	2113.2	15.4
50°-60°	3047.8	22.3
60°-70°	3730.1	27.3
70°-80°	2373.6	17.3
80°-90°	160.6	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°	13685.0	100.0
0°-180°	13685.0	100.0

Coefficient of Utilization



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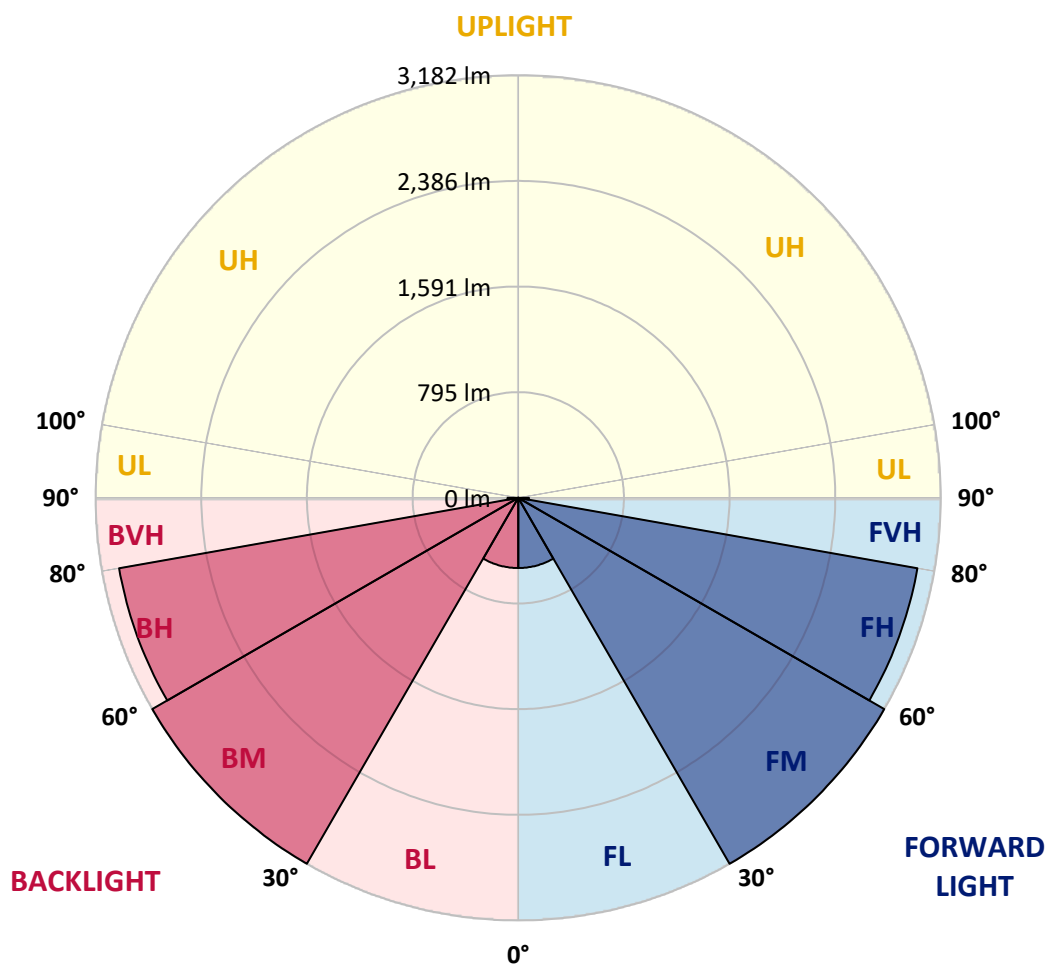
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	528.4	3.9			
FM	(30°-60°)	3181.9	23.3			
FH	(60°-80°)	3051.8	22.3			G2/5000
FVH	(80°-90°)	80.3	0.6			G1/100
BL	(0°-30°)	528.4	3.9	B2/1000		
BM	(30°-60°)	3181.9	23.3	B3/5000		
BH	(60°-80°)	3051.8	22.3	B4/5000		G2/5000
BVH	(80°-90°)	80.3	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°	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0
2.5°	966.7	966.7	964.1	964.1	959.1	956.5	954.0	954.0	951.4	951.4	948.9
5°	971.8	971.8	971.8	969.2	966.7	964.1	959.1	954.0	951.4	948.9	946.3
7.5°	974.3	974.3	971.8	971.8	969.2	966.7	959.1	951.4	948.9	946.3	946.3
10°	994.7	992.1	989.6	984.5	984.5	984.5	974.3	966.7	964.1	964.1	964.1
12.5°	1043.0	1040.5	1035.4	1027.7	1027.7	1030.3	1015.0	1004.9	1004.9	1002.3	1002.3
15°	1114.2	1111.7	1106.6	1093.9	1091.3	1096.4	1073.5	1063.4	1063.4	1063.4	1060.8
17.5°	1193.1	1188.0	1180.4	1170.2	1170.2	1170.2	1147.3	1134.6	1127.0	1127.0	1124.4
20°	1259.2	1256.7	1256.7	1254.2	1261.8	1261.8	1231.3	1210.9	1193.1	1182.9	1180.4
22.5°	1317.8	1315.2	1320.3	1330.5	1345.7	1350.8	1315.2	1284.7	1256.7	1236.3	1231.3
25°	1396.6	1394.1	1391.5	1406.8	1432.2	1439.9	1401.7	1363.5	1335.6	1325.4	1320.3
27.5°	1480.6	1483.1	1485.7	1500.9	1521.3	1534.0	1495.8	1460.2	1437.3	1422.1	1417.0
30°	1574.7	1579.8	1587.4	1610.3	1625.6	1630.7	1597.6	1572.1	1551.8	1539.1	1531.4
32.5°	1694.3	1704.4	1714.6	1735.0	1742.6	1737.5	1722.2	1704.4	1689.2	1671.4	1668.8
35°	1872.3	1882.5	1880.0	1887.6	1890.1	1885.1	1877.4	1867.2	1859.6	1836.7	1834.2
37.5°	2096.2	2106.4	2091.1	2083.5	2065.7	2068.2	2065.7	2073.3	2075.8	2053.0	2050.4
40°	2322.6	2332.8	2312.4	2292.1	2274.3	2266.6	2279.4	2304.8	2304.8	2289.5	2289.5
42.5°	2564.3	2571.9	2538.8	2513.4	2490.5	2485.4	2493.1	2523.6	2531.2	2528.7	2528.7
45°	2806.0	2800.9	2757.6	2732.2	2711.8	2699.1	2701.7	2724.5	2739.8	2747.4	2747.4
47.5°	2991.7	2984.0	2948.4	2928.1	2915.3	2897.5	2897.5	2910.3	2917.9	2920.4	2920.4
50°	3139.2	3131.6	3096.0	3093.4	3093.4	3085.8	3078.2	3075.6	3070.5	3073.1	3073.1
52.5°	3266.4	3256.2	3230.8	3235.9	3258.8	3263.9	3253.7	3233.3	3213.0	3205.4	3207.9
55°	3403.8	3388.5	3368.2	3383.4	3429.2	3449.6	3434.3	3393.6	3358.0	3335.1	3335.1
57.5°	3513.2	3495.4	3495.4	3538.6	3622.6	3663.3	3630.2	3553.9	3492.8	3467.4	3469.9
60°	3436.8	3421.6	3482.6	3673.4	3831.2	3899.8	3843.9	3709.0	3609.8	3579.3	3584.4
62.5°	3286.8	3276.6	3352.9	3648.0	4019.4	4161.9	4077.9	3884.6	3737.0	3701.4	3701.4
65°	3065.4	3062.9	3169.7	3533.5	4062.7	4413.7	4342.5	4075.4	3884.6	3836.2	3846.4
67.5°	2836.5	2836.5	2933.2	3337.6	4011.8	4520.6	4576.5	4248.4	3955.8	3836.2	3838.8
70°	2432.0	2475.2	2732.2	3157.0	3826.1	4444.2	4673.2	4126.3	3645.5	3434.3	3426.7
72.5°	1602.7	1658.6	2170.0	2841.6	3642.9	4167.0	4217.8	3625.1	3027.3	2780.5	2767.8
75°	966.7	1015.0	1406.8	2218.3	3202.8	3355.4	3131.6	2841.6	2261.6	2068.2	2068.2
77.5°	284.9	318.0	648.7	1406.8	2215.8	2205.6	1930.8	1673.9	1338.1	1137.1	1152.4
80°	167.9	173.0	211.1	641.1	918.4	966.7	745.4	465.5	465.5	346.0	335.8
82.5°	129.7	129.7	134.8	160.3	221.3	246.8	188.3	160.3	183.2	155.2	147.5
85°	91.6	91.6	91.6	94.1	96.7	99.2	104.3	106.8	117.0	96.7	91.6
87.5°	28.0	30.5	33.1	38.2	45.8	48.3	50.9	45.8	45.8	43.2	40.7
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)