

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: P836314

Luminaire Tested: **ARCH3-170-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836314
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: ARCH3-170-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21947 lumens
Efficiency: N/A
Efficacy: 128.6 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): 170.6
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

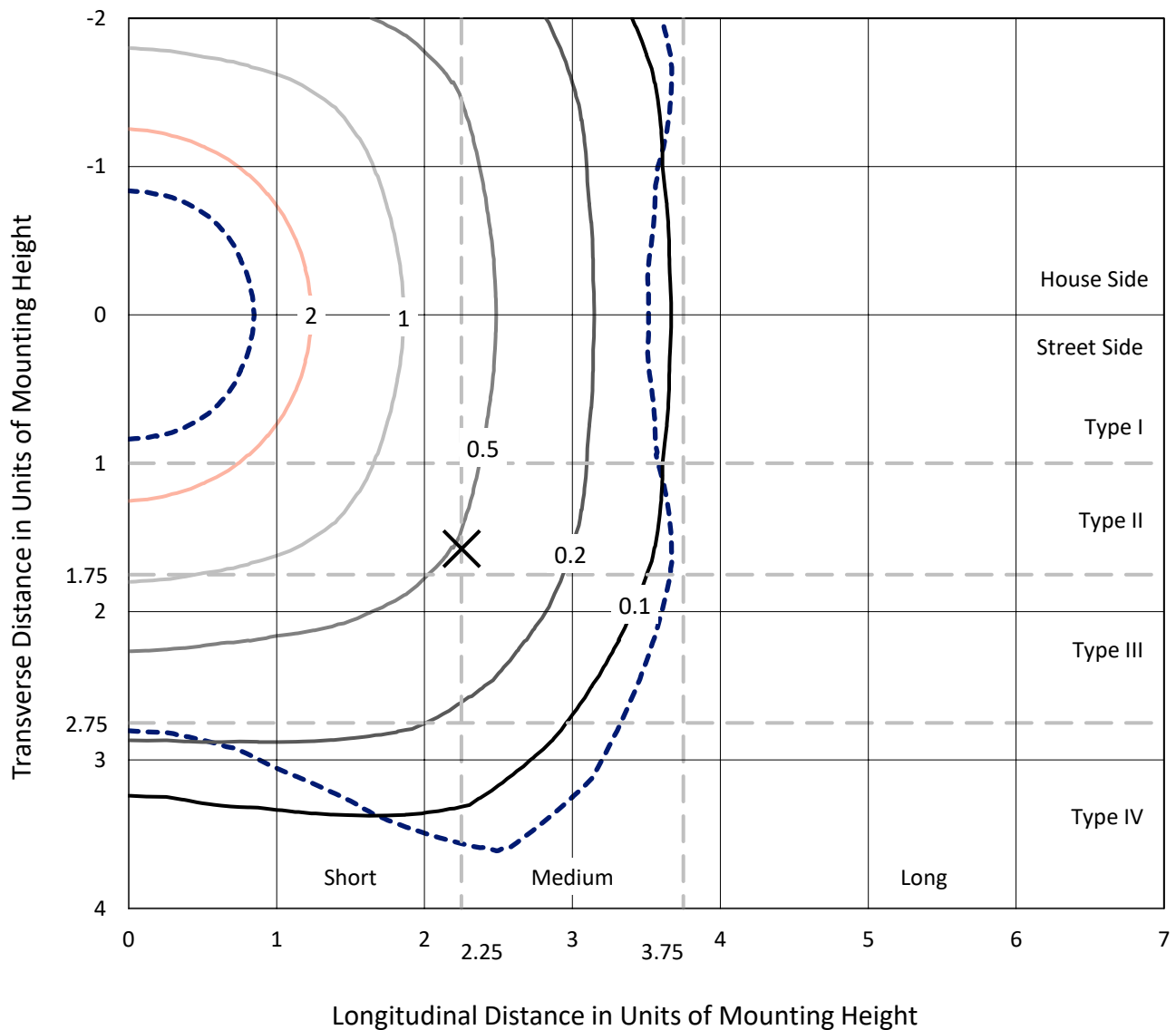


REPORT NUMBER: P836314

CATALOG NUMBER: ARCH3-170-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

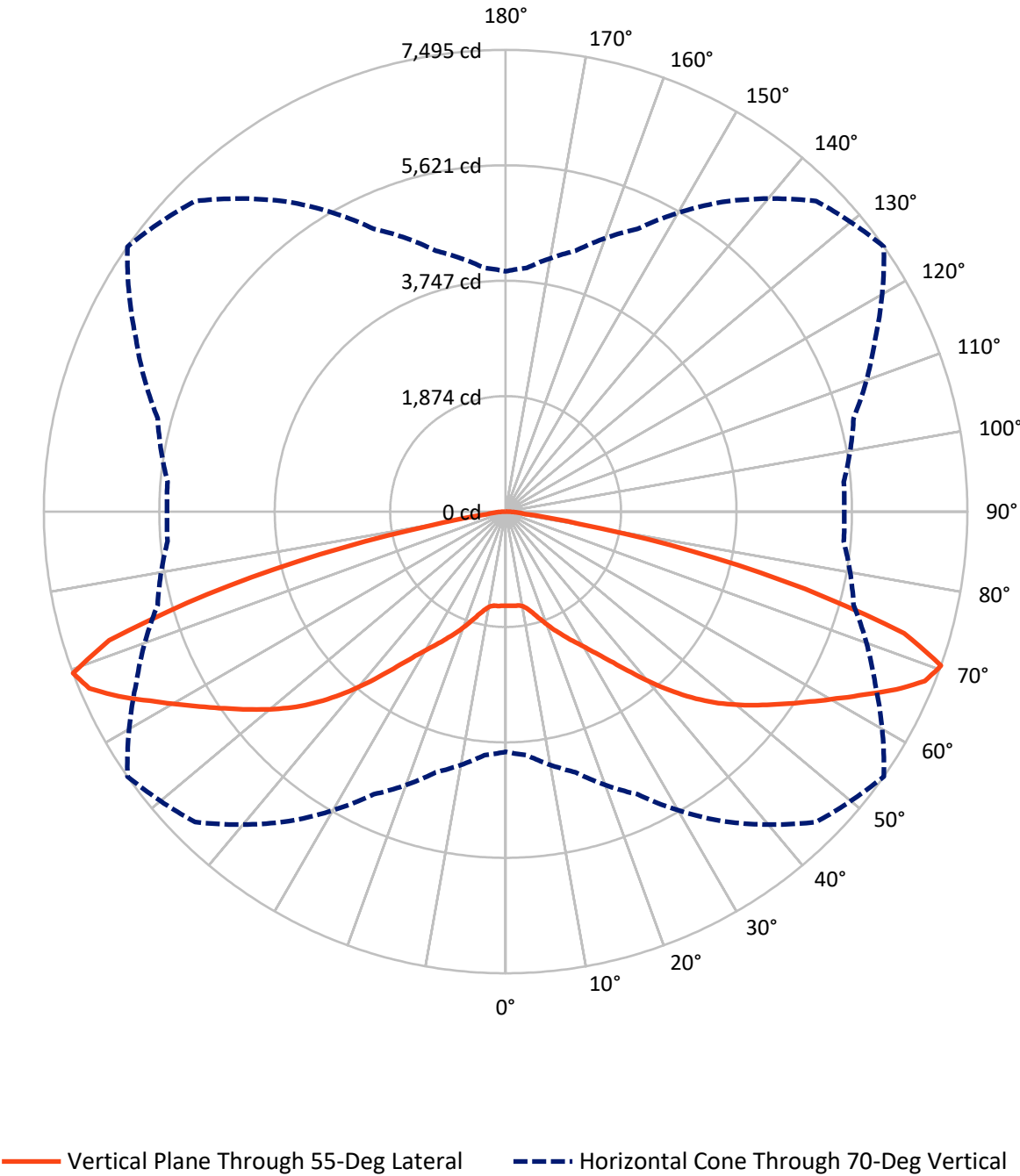
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type V - Medium - N/A

REPORT NUMBER: P836314
CATALOG NUMBER: ARCH3-170-727-U-5WQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10973.5	0.0	10973.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10973.5	0.0	10973.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21947.0	0.0	21947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	0.7
10°-20°	502.7	2.3
20°-30°	1044.5	4.8
30°-40°	1929.1	8.8
40°-50°	3389.0	15.4
50°-60°	4887.8	22.3
60°-70°	5982.1	27.3
70°-80°	3806.6	17.3
80°-90°	257.6	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°	21947.0	100.0
0°-180°	21947.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836314

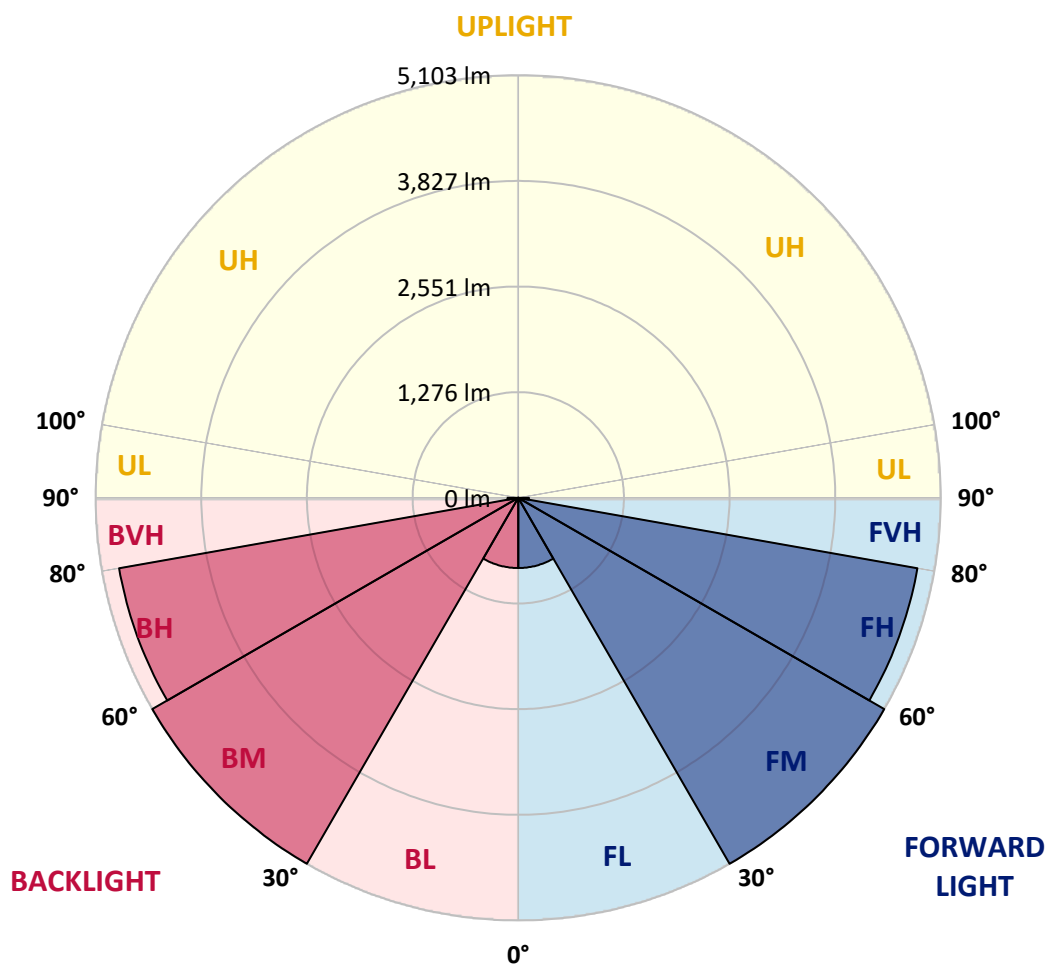
CATALOG NUMBER: ARCH3-170-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	847.4	3.9			
FM	(30°-60°)	5103.0	23.3			
FH	(60°-80°)	4894.3	22.3			G2/5000
FVH	(80°-90°)	128.8	0.6			G2/225
BL	(0°-30°)	847.4	3.9	B2/1000		
BM	(30°-60°)	5103.0	23.3	B4/8500		
BH	(60°-80°)	4894.3	22.3	B4/5000		G2/5000
BVH	(80°-90°)	128.8	0.6			G2/225
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: P836314

CATALOG NUMBER: ARCH3-170-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9
2.5°	1550.3	1550.3	1546.2	1546.2	1538.1	1534.0	1529.9	1529.9	1525.8	1525.8	1521.8
5°	1558.5	1558.5	1558.5	1554.4	1550.3	1546.2	1538.1	1529.9	1525.8	1521.8	1517.7
7.5°	1562.6	1562.6	1558.5	1558.5	1554.4	1550.3	1538.1	1525.8	1521.8	1517.7	1517.7
10°	1595.2	1591.1	1587.0	1578.9	1578.9	1578.9	1562.6	1550.3	1546.2	1546.2	1546.2
12.5°	1672.7	1668.6	1660.5	1648.2	1648.2	1652.3	1627.8	1611.5	1611.5	1607.4	1607.4
15°	1786.9	1782.9	1774.7	1754.3	1750.2	1758.4	1721.7	1705.3	1705.3	1705.3	1701.3
17.5°	1913.4	1905.3	1893.0	1876.7	1876.7	1876.7	1840.0	1819.6	1807.3	1807.3	1803.3
20°	2019.5	2015.4	2015.4	2011.3	2023.6	2023.6	1974.6	1942.0	1913.4	1897.1	1893.0
22.5°	2113.3	2109.2	2117.4	2133.7	2158.2	2166.4	2109.2	2060.3	2015.4	1982.8	1974.6
25°	2239.8	2235.7	2231.6	2256.1	2296.9	2309.1	2248.0	2186.8	2141.9	2125.6	2117.4
27.5°	2374.4	2378.5	2382.6	2407.1	2439.7	2460.1	2398.9	2341.8	2305.1	2280.6	2272.4
30°	2525.4	2533.5	2545.8	2582.5	2607.0	2615.1	2562.1	2521.3	2488.7	2468.3	2456.0
32.5°	2717.1	2733.4	2749.8	2782.4	2794.6	2786.5	2762.0	2733.4	2709.0	2680.4	2676.3
35°	3002.7	3019.0	3014.9	3027.2	3031.3	3023.1	3010.9	2994.5	2982.3	2945.6	2941.5
37.5°	3361.7	3378.0	3353.6	3341.3	3312.8	3316.9	3312.8	3325.0	3329.1	3292.4	3288.3
40°	3724.8	3741.1	3708.5	3675.9	3647.3	3635.1	3655.5	3696.3	3696.3	3671.8	3671.8
42.5°	4112.4	4124.6	4071.6	4030.8	3994.1	3985.9	3998.2	4047.1	4059.4	4055.3	4055.3
45°	4500.0	4491.8	4422.5	4381.7	4349.0	4328.6	4332.7	4369.4	4393.9	4406.1	4406.1
47.5°	4797.8	4785.6	4728.5	4695.8	4675.4	4646.9	4646.9	4667.3	4679.5	4683.6	4683.6
50°	5034.4	5022.2	4965.1	4961.0	4961.0	4948.8	4936.5	4932.4	4924.3	4928.4	4928.4
52.5°	5238.4	5222.1	5181.3	5189.5	5226.2	5234.3	5218.0	5185.4	5152.7	5140.5	5144.6
55°	5458.7	5434.3	5401.6	5426.1	5499.5	5532.2	5507.7	5442.4	5385.3	5348.6	5348.6
57.5°	5634.2	5605.6	5605.6	5675.0	5809.6	5874.9	5821.8	5699.4	5601.5	5560.7	5564.8
60°	5511.8	5487.3	5585.2	5891.2	6144.1	6254.3	6164.5	5948.3	5789.2	5740.2	5748.4
62.5°	5271.1	5254.7	5377.1	5850.4	6446.0	6674.5	6539.9	6229.8	5993.2	5936.1	5936.1
65°	4916.1	4912.0	5083.4	5666.8	6515.4	7078.4	6964.2	6535.8	6229.8	6152.3	6168.6
67.5°	4548.9	4548.9	4704.0	5352.7	6433.8	7249.7	7339.5	6813.2	6344.0	6152.3	6156.4
70°	3900.3	3969.6	4381.7	5063.0	6136.0	7127.4	7494.5	6617.4	5846.3	5507.7	5495.4
72.5°	2570.3	2660.0	3480.0	4557.1	5842.2	6682.7	6764.3	5813.7	4854.9	4459.2	4438.8
75°	1550.3	1627.8	2256.1	3557.6	5136.4	5381.2	5022.2	4557.1	3626.9	3316.9	3316.9
77.5°	456.9	510.0	1040.3	2256.1	3553.5	3537.2	3096.5	2684.5	2146.0	1823.7	1848.1
80°	269.3	277.4	338.6	1028.1	1472.8	1550.3	1195.4	746.6	746.6	554.8	538.5
82.5°	208.1	208.1	216.2	257.0	354.9	395.7	301.9	257.0	293.7	248.9	236.6
85°	146.9	146.9	146.9	151.0	155.0	159.1	167.3	171.4	187.7	155.0	146.9
87.5°	44.9	49.0	53.0	61.2	73.4	77.5	81.6	73.4	73.4	69.4	65.3
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)