

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: P841756

Luminaire Tested: **ARCH4-220-740-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841756
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: ARCH4-220-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34601 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

Input Watts (W): 221.8
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

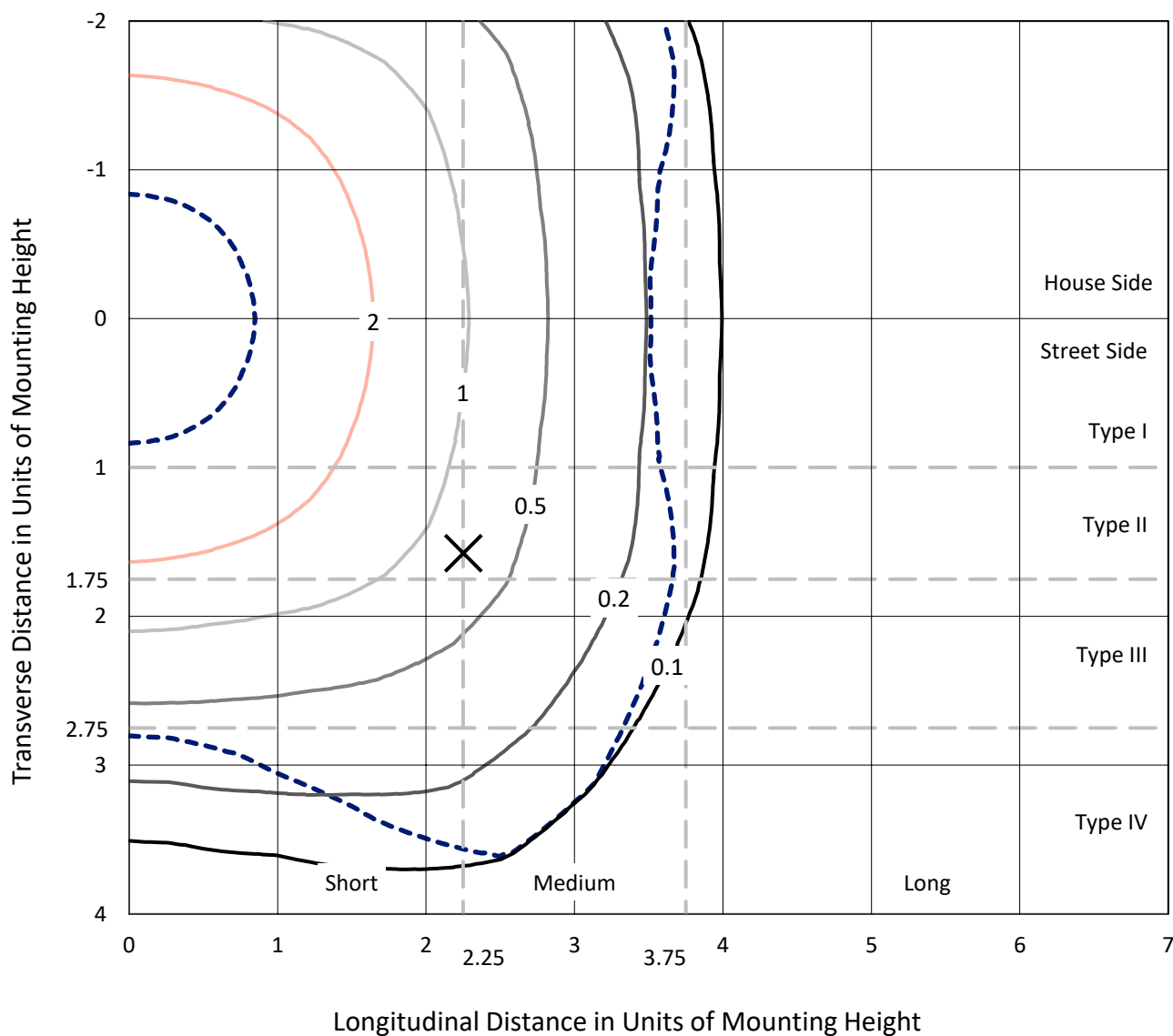


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Iso-Footcandle Lines of Horizontal Illumination

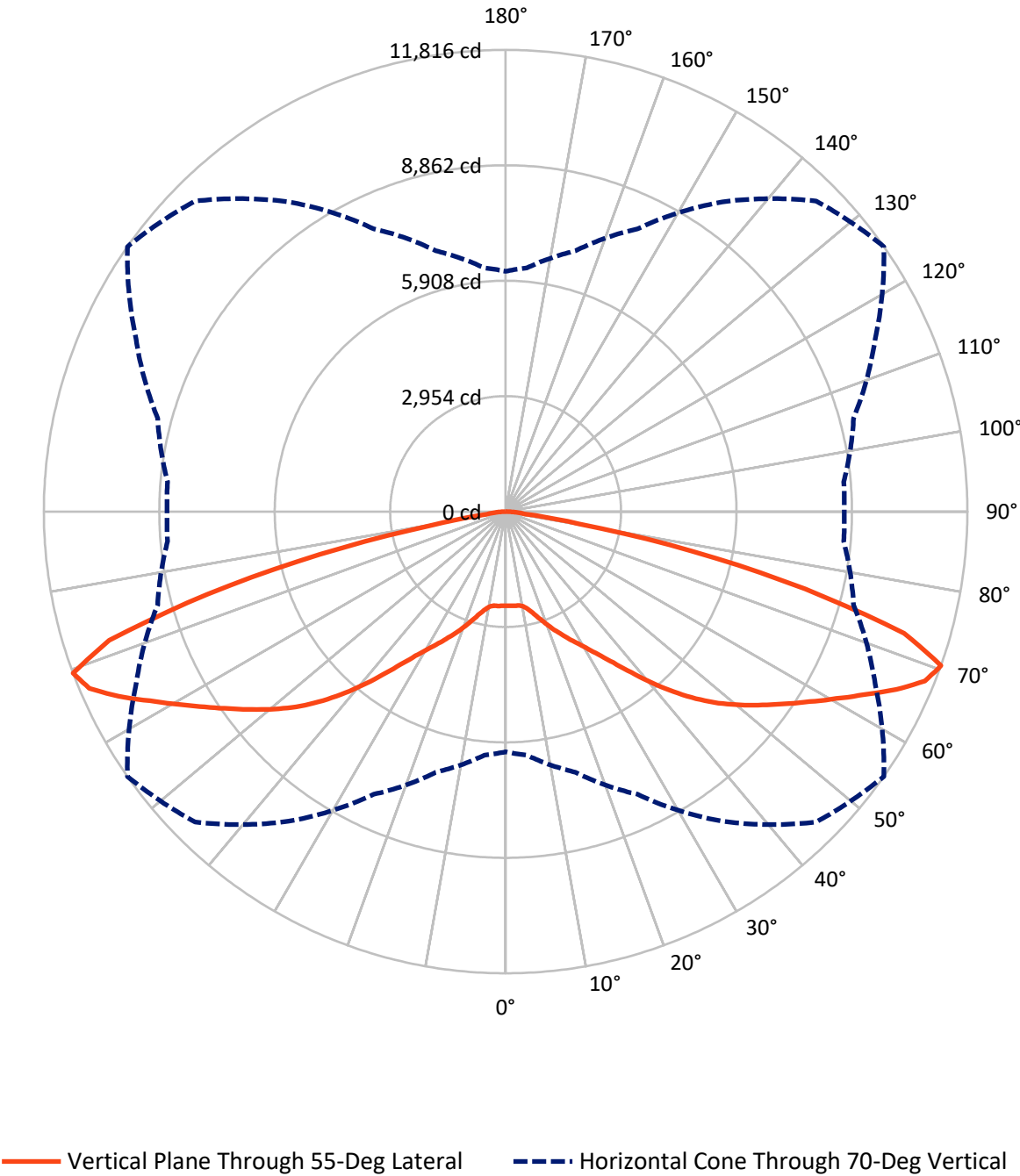
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	17300.5	0.0	17300.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17300.5	0.0	17300.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34601.0	0.0	34601.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.9	0.7
10°-20°	792.5	2.3
20°-30°	1646.7	4.8
30°-40°	3041.4	8.8
40°-50°	5343.0	15.4
50°-60°	7705.9	22.3
60°-70°	9431.2	27.3
70°-80°	6001.3	17.3
80°-90°	406.1	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°	34601.0	100.0
0°-180°	34601.0	100.0

Coefficient of Utilization



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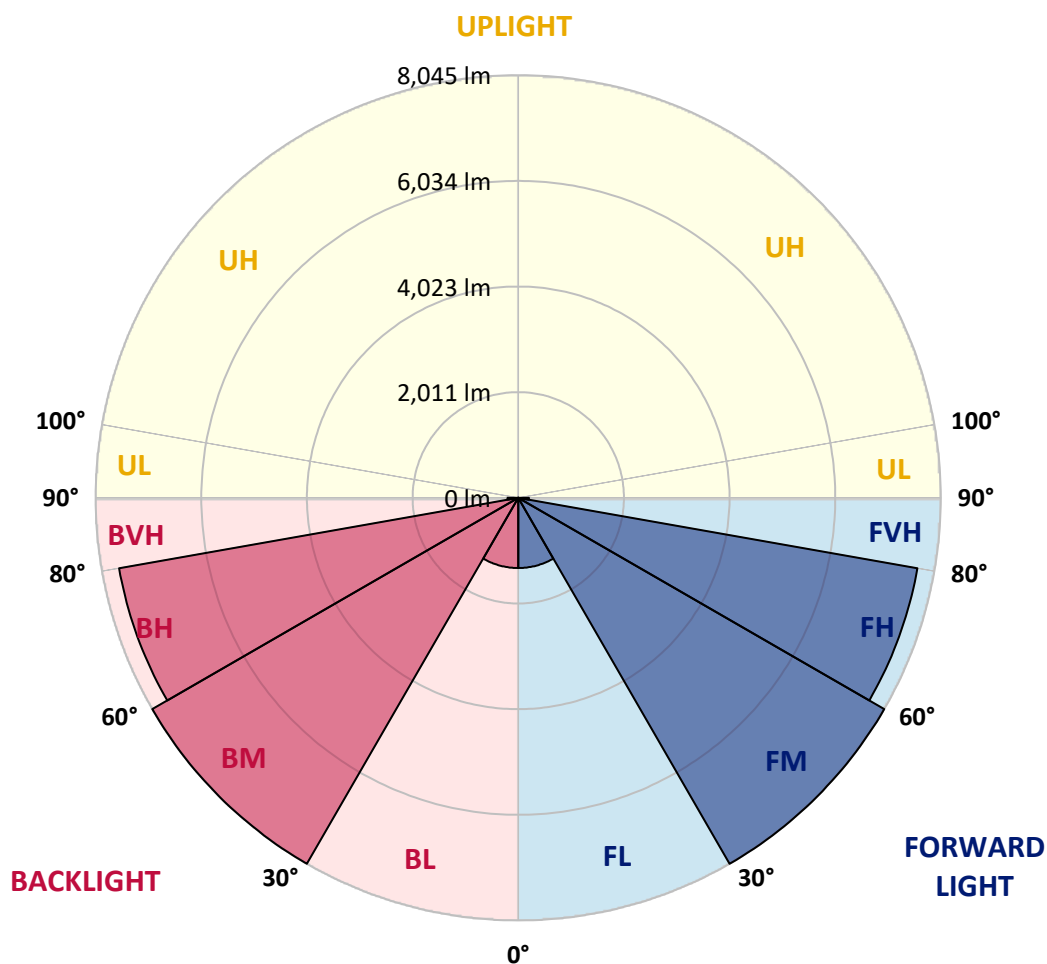
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1336.0	3.9			
FM	(30°-60°)	8045.2	23.3			
FH	(60°-80°)	7716.3	22.3			G4/12000
FVH	(80°-90°)	203.0	0.6			G2/225
BL	(0°-30°)	1336.0	3.9	B3/2500		
BM	(30°-60°)	8045.2	23.3	B4/8500		
BH	(60°-80°)	7716.3	22.3	B5		G4/12000
BVH	(80°-90°)	203.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0	2412.0
2.5°	2444.2	2444.2	2437.7	2437.7	2424.9	2418.4	2412.0	2412.0	2405.6	2405.6	2399.2
5°	2457.0	2457.0	2457.0	2450.6	2444.2	2437.7	2424.9	2412.0	2405.6	2399.2	2392.7
7.5°	2463.5	2463.5	2457.0	2457.0	2450.6	2444.2	2424.9	2405.6	2399.2	2392.7	2392.7
10°	2514.9	2508.5	2502.1	2489.2	2489.2	2489.2	2463.5	2444.2	2437.7	2437.7	2437.7
12.5°	2637.1	2630.7	2617.8	2598.5	2598.5	2605.0	2566.4	2540.7	2540.7	2534.2	2534.2
15°	2817.2	2810.8	2797.9	2765.8	2759.3	2772.2	2714.3	2688.6	2688.6	2688.6	2682.2
17.5°	3016.6	3003.8	2984.5	2958.7	2958.7	2958.7	2900.9	2868.7	2849.4	2849.4	2843.0
20°	3183.9	3177.4	3177.4	3171.0	3190.3	3190.3	3113.1	3061.7	3016.6	2990.9	2984.5
22.5°	3331.8	3325.4	3338.2	3364.0	3402.6	3415.4	3325.4	3248.2	3177.4	3126.0	3113.1
25°	3531.2	3524.8	3518.3	3556.9	3621.2	3640.5	3544.1	3447.6	3376.8	3351.1	3338.2
27.5°	3743.4	3749.9	3756.3	3794.9	3846.4	3878.5	3782.0	3692.0	3634.1	3595.5	3582.6
30°	3981.4	3994.3	4013.6	4071.5	4110.1	4122.9	4039.3	3975.0	3923.5	3891.4	3872.1
32.5°	4283.7	4309.5	4335.2	4386.7	4405.9	4393.1	4354.5	4309.5	4270.9	4225.9	4219.4
35°	4734.0	4759.7	4753.3	4772.6	4779.0	4766.1	4746.8	4721.1	4701.8	4643.9	4637.5
37.5°	5300.0	5325.7	5287.1	5267.8	5222.8	5229.3	5222.8	5242.1	5248.5	5190.7	5184.2
40°	5872.5	5898.2	5846.7	5795.3	5750.2	5731.0	5763.1	5827.4	5827.4	5788.8	5788.8
42.5°	6483.5	6502.8	6419.2	6354.9	6297.0	6284.1	6303.4	6380.6	6399.9	6393.5	6393.5
45°	7094.5	7081.7	6972.3	6908.0	6856.6	6824.4	6830.8	6888.7	6927.3	6946.6	6946.6
47.5°	7564.1	7544.8	7454.7	7403.3	7371.1	7326.1	7326.1	7358.3	7377.6	7384.0	7384.0
50°	7937.1	7917.8	7827.8	7821.4	7821.4	7802.1	7782.8	7776.3	7763.5	7769.9	7769.9
52.5°	8258.7	8233.0	8168.7	8181.6	8239.4	8252.3	8226.6	8175.1	8123.7	8104.4	8110.8
55°	8606.1	8567.5	8516.0	8554.6	8670.4	8721.9	8683.3	8580.3	8490.3	8432.4	8432.4
57.5°	8882.7	8837.6	8837.6	8947.0	9159.2	9262.1	9178.5	8985.6	8831.2	8766.9	8773.3
60°	8689.7	8651.1	8805.5	9287.9	9686.7	9860.3	9718.8	9377.9	9127.1	9049.9	9062.7
62.5°	8310.2	8284.5	8477.4	9223.5	10162.6	10522.8	10310.6	9821.7	9448.7	9358.6	9358.6
65°	7750.6	7744.2	8014.3	8934.1	10272.0	11159.6	10979.5	10304.1	9821.7	9699.5	9725.2
67.5°	7171.7	7171.7	7416.1	8438.8	10143.3	11429.7	11571.2	10741.5	10001.8	9699.5	9706.0
70°	6149.0	6258.4	6908.0	7982.2	9673.8	11236.8	11815.7	10432.8	9217.1	8683.3	8664.0
72.5°	4052.2	4193.7	5486.5	7184.6	9210.7	10535.7	10664.3	9165.7	7654.1	7030.2	6998.1
75°	2444.2	2566.4	3556.9	5608.7	8097.9	8483.9	7917.8	7184.6	5718.1	5229.3	5229.3
77.5°	720.4	804.0	1640.2	3556.9	5602.3	5576.6	4881.9	4232.3	3383.3	2875.1	2913.7
80°	424.5	437.4	533.9	1620.9	2322.0	2444.2	1884.6	1177.1	1177.1	874.8	849.0
82.5°	328.0	328.0	340.9	405.2	559.6	623.9	476.0	405.2	463.1	392.4	373.1
85°	231.6	231.6	231.6	238.0	244.4	250.8	263.7	270.1	295.9	244.4	231.6
87.5°	70.8	77.2	83.6	96.5	115.8	122.2	128.6	115.8	115.8	109.3	102.9
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)