

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: P841873

Luminaire Tested: **ARCH4-240-727-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841873
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: ARCH4-240-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

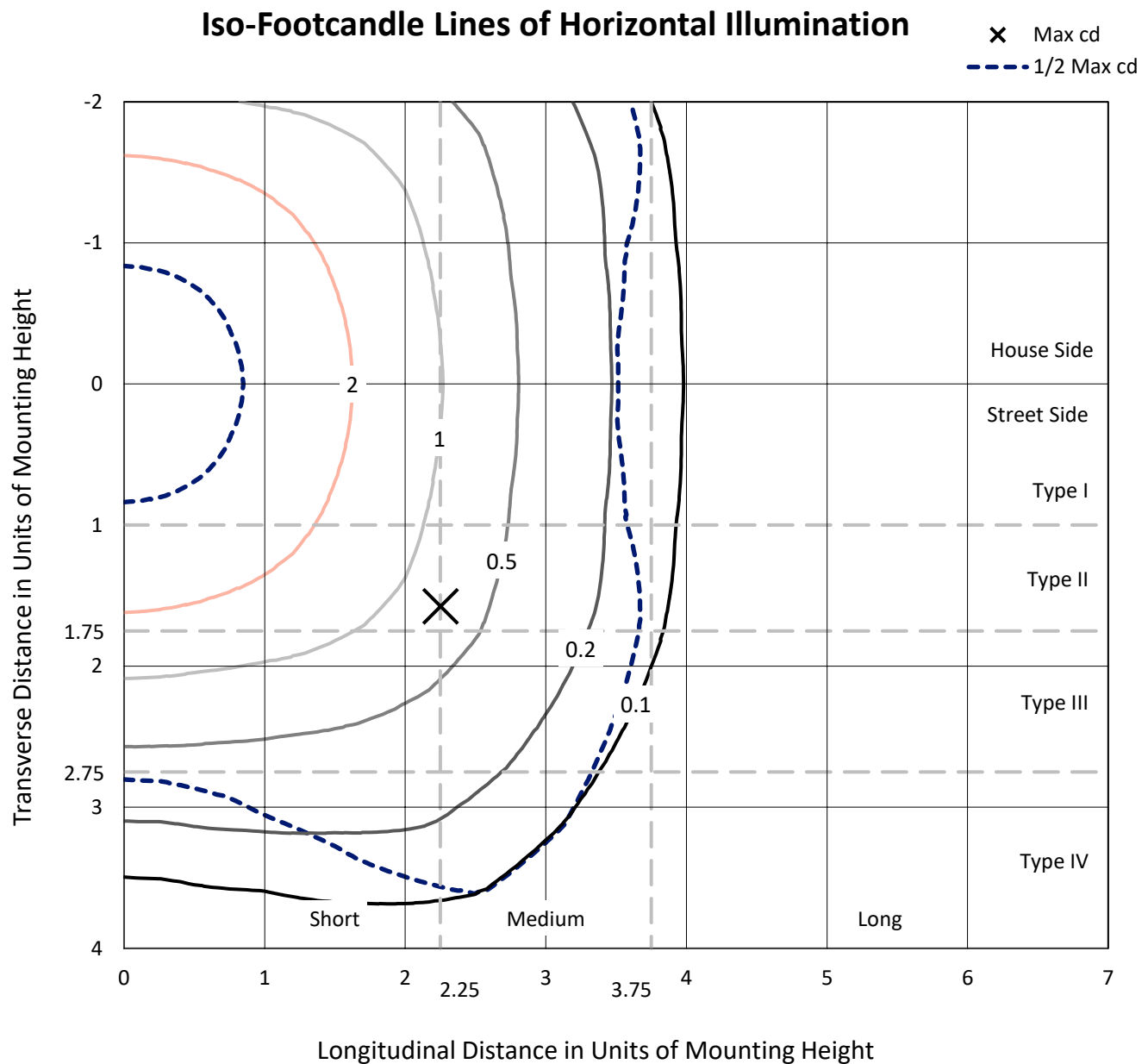
Lumens per Lamp: N/A
Luminaire Lumens: 33872 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

Input Watts (W): 240.2
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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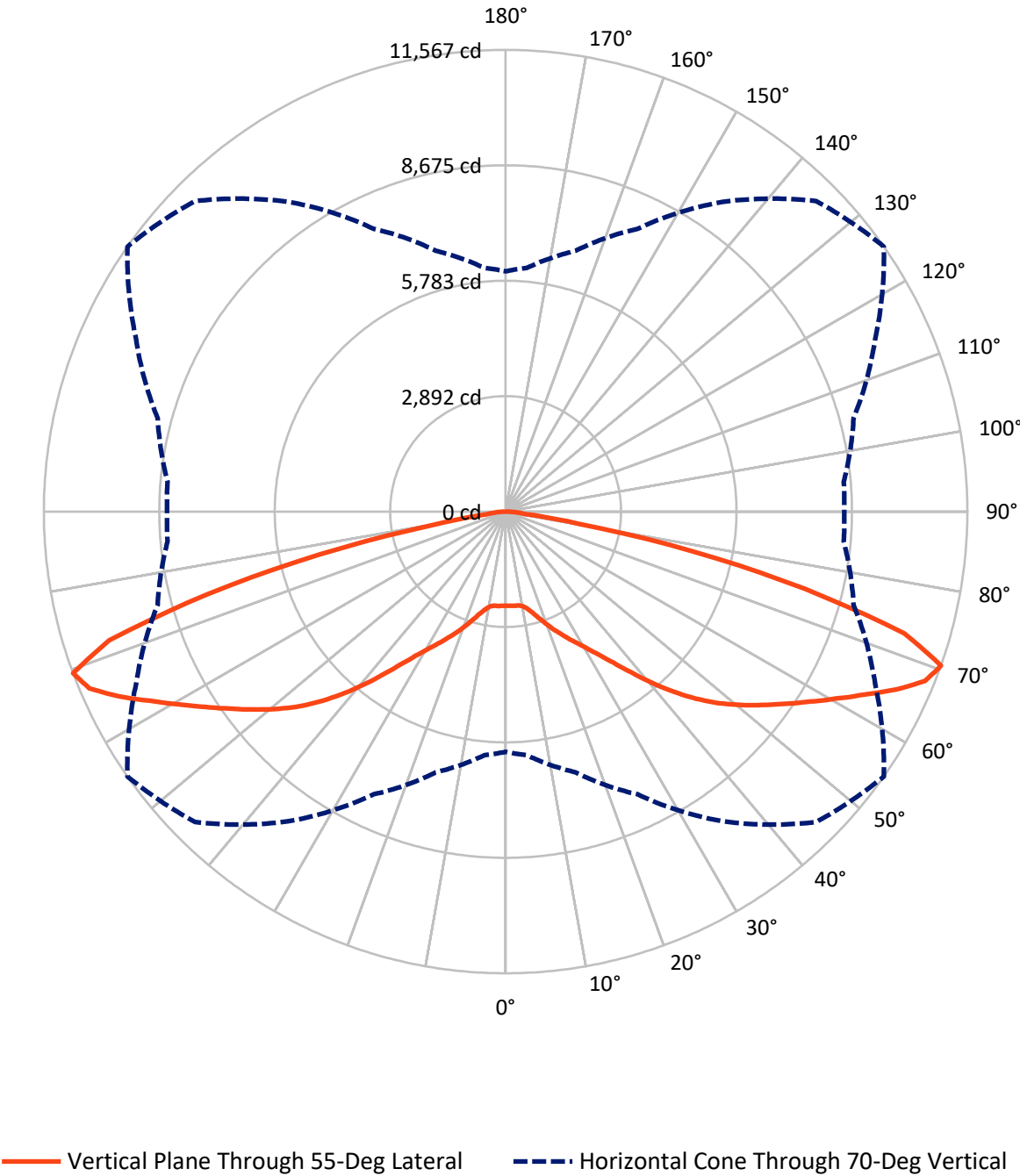
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Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16936.0	0.0	16936.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16936.0	0.0	16936.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33872.0	0.0	33872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	0.7
10°-20°	775.8	2.3
20°-30°	1612.0	4.8
30°-40°	2977.3	8.8
40°-50°	5230.5	15.4
50°-60°	7543.6	22.3
60°-70°	9232.5	27.3
70°-80°	5874.8	17.3
80°-90°	397.5	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°	33872.0	100.0
0°-180°	33872.0	100.0

Coefficient of Utilization



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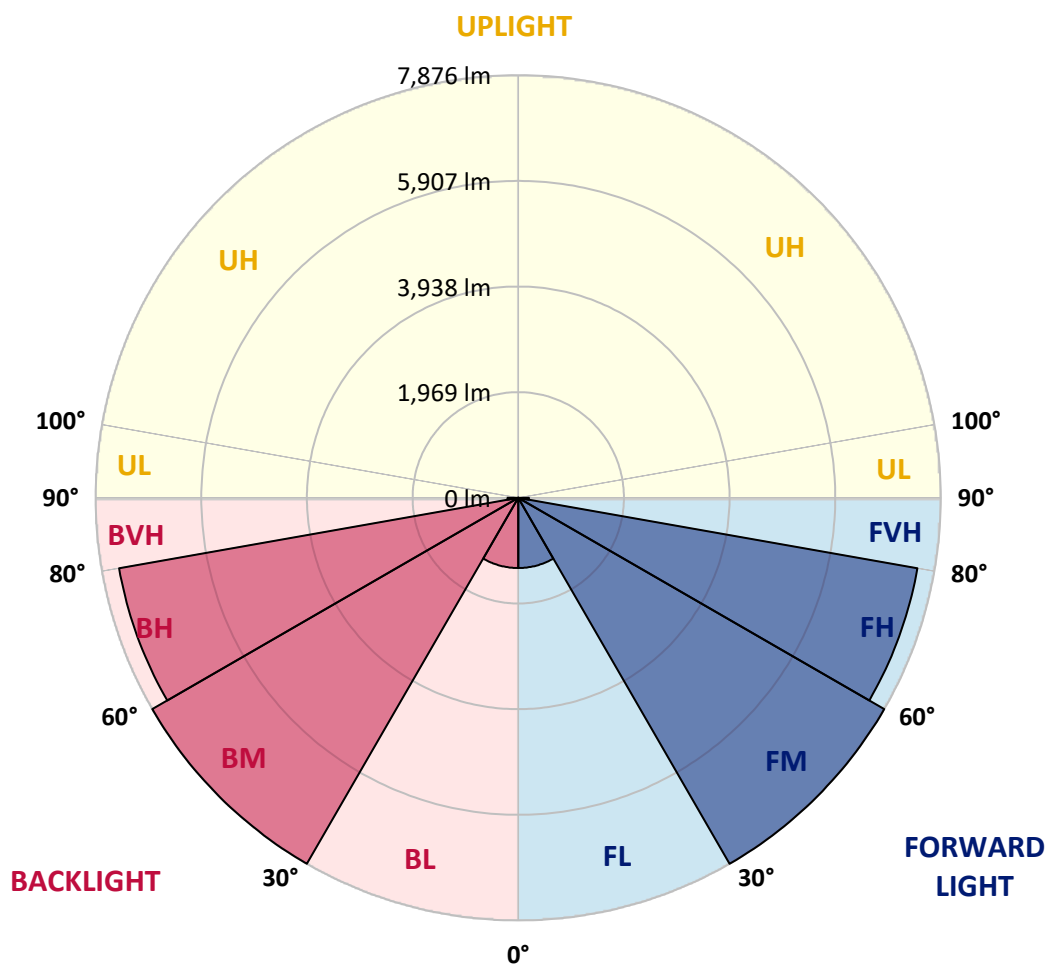
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1307.9	3.9			
FM	(30°-60°)	7875.7	23.3			
FH	(60°-80°)	7553.7	22.3			G4/12000
FVH	(80°-90°)	198.8	0.6			G2/225
BL	(0°-30°)	1307.9	3.9	B3/2500		
BM	(30°-60°)	7875.7	23.3	B4/8500		
BH	(60°-80°)	7553.7	22.3	B5		G4/12000
BVH	(80°-90°)	198.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2361.2	2361.2	2361.2	2361.2	2361.2	2361.2	2361.2	2361.2	2361.2	2361.2	2361.2
2.5°	2392.7	2392.7	2386.4	2386.4	2373.8	2367.5	2361.2	2361.2	2354.9	2354.9	2348.6
5°	2405.3	2405.3	2405.3	2399.0	2392.7	2386.4	2373.8	2361.2	2354.9	2348.6	2342.3
7.5°	2411.6	2411.6	2405.3	2405.3	2399.0	2392.7	2373.8	2354.9	2348.6	2342.3	2342.3
10°	2461.9	2455.6	2449.3	2436.8	2436.8	2436.8	2411.6	2392.7	2386.4	2386.4	2386.4
12.5°	2581.6	2575.3	2562.7	2543.8	2543.8	2550.1	2512.3	2487.1	2487.1	2480.8	2480.8
15°	2757.9	2751.6	2739.0	2707.5	2701.2	2713.8	2657.1	2631.9	2631.9	2631.9	2625.7
17.5°	2953.1	2940.5	2921.6	2896.4	2896.4	2896.4	2839.7	2808.3	2789.4	2789.4	2783.1
20°	3116.8	3110.5	3110.5	3104.2	3123.1	3123.1	3047.5	2997.1	2953.1	2927.9	2921.6
22.5°	3261.6	3255.3	3267.9	3293.1	3330.9	3343.5	3255.3	3179.7	3110.5	3060.1	3047.5
25°	3456.8	3450.5	3444.2	3482.0	3544.9	3563.8	3469.4	3374.9	3305.7	3280.5	3267.9
27.5°	3664.6	3670.9	3677.2	3715.0	3765.3	3796.8	3702.4	3614.2	3557.5	3519.8	3507.2
30°	3897.6	3910.1	3929.0	3985.7	4023.5	4036.1	3954.2	3891.3	3840.9	3809.4	3790.5
32.5°	4193.5	4218.7	4243.9	4294.2	4313.1	4300.5	4262.7	4218.7	4180.9	4136.8	4130.5
35°	4634.2	4659.4	4653.1	4672.0	4678.3	4665.7	4646.8	4621.7	4602.8	4546.1	4539.8
37.5°	5188.3	5213.5	5175.7	5156.9	5112.8	5119.1	5112.8	5131.7	5138.0	5081.3	5075.0
40°	5748.7	5773.9	5723.5	5673.2	5629.1	5610.2	5641.7	5704.7	5704.7	5666.9	5666.9
42.5°	6346.9	6365.8	6283.9	6221.0	6164.3	6151.7	6170.6	6246.2	6265.0	6258.7	6258.7
45°	6945.1	6932.5	6825.4	6762.5	6712.1	6680.6	6686.9	6743.6	6781.4	6800.3	6800.3
47.5°	7404.7	7385.8	7297.7	7247.3	7215.8	7171.7	7171.7	7203.2	7222.1	7228.4	7228.4
50°	7769.9	7751.0	7662.9	7656.6	7656.6	7637.7	7618.8	7612.5	7599.9	7606.2	7606.2
52.5°	8084.7	8059.6	7996.6	8009.2	8065.9	8078.4	8053.3	8002.9	7952.5	7933.6	7939.9
55°	8424.8	8387.0	8336.6	8374.4	8487.7	8538.1	8500.3	8399.6	8311.4	8254.7	8254.7
57.5°	8695.5	8651.4	8651.4	8758.5	8966.3	9067.0	8985.1	8796.2	8645.1	8582.2	8588.5
60°	8506.6	8468.8	8619.9	9092.2	9482.6	9652.6	9514.1	9180.3	8934.8	8859.2	8871.8
62.5°	8135.1	8109.9	8298.8	9029.2	9948.5	10301.1	10093.3	9614.8	9249.6	9161.4	9161.4
65°	7587.3	7581.0	7845.5	8745.9	10055.6	10924.5	10748.2	10087.0	9614.8	9495.2	9520.4
67.5°	7020.6	7020.6	7259.9	8261.0	9929.6	11188.9	11327.5	10515.2	9791.1	9495.2	9501.5
70°	6019.5	6126.5	6762.5	7814.0	9470.0	11000.0	11566.7	10213.0	9022.9	8500.3	8481.4
72.5°	3966.8	4105.3	5370.9	7033.2	9016.6	10313.7	10439.6	8972.6	7492.9	6882.1	6850.6
75°	2392.7	2512.3	3482.0	5490.6	7927.3	8305.1	7751.0	7033.2	5597.6	5119.1	5119.1
77.5°	705.2	787.1	1605.6	3482.0	5484.3	5459.1	4779.1	4143.1	3312.0	2814.5	2852.3
80°	415.6	428.2	522.6	1586.7	2273.0	2392.7	1844.9	1152.3	1152.3	856.3	831.1
82.5°	321.1	321.1	333.7	396.7	547.8	610.8	465.9	396.7	453.4	384.1	365.2
85°	226.7	226.7	226.7	233.0	239.3	245.6	258.2	264.5	289.6	239.3	226.7
87.5°	69.3	75.6	81.9	94.4	113.3	119.6	125.9	113.3	113.3	107.0	100.7
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)