

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: P841648

Luminaire Tested: **ARCH4-210-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841648
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: ARCH4-210-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27853 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G3

Input Watts (W): 213.1
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



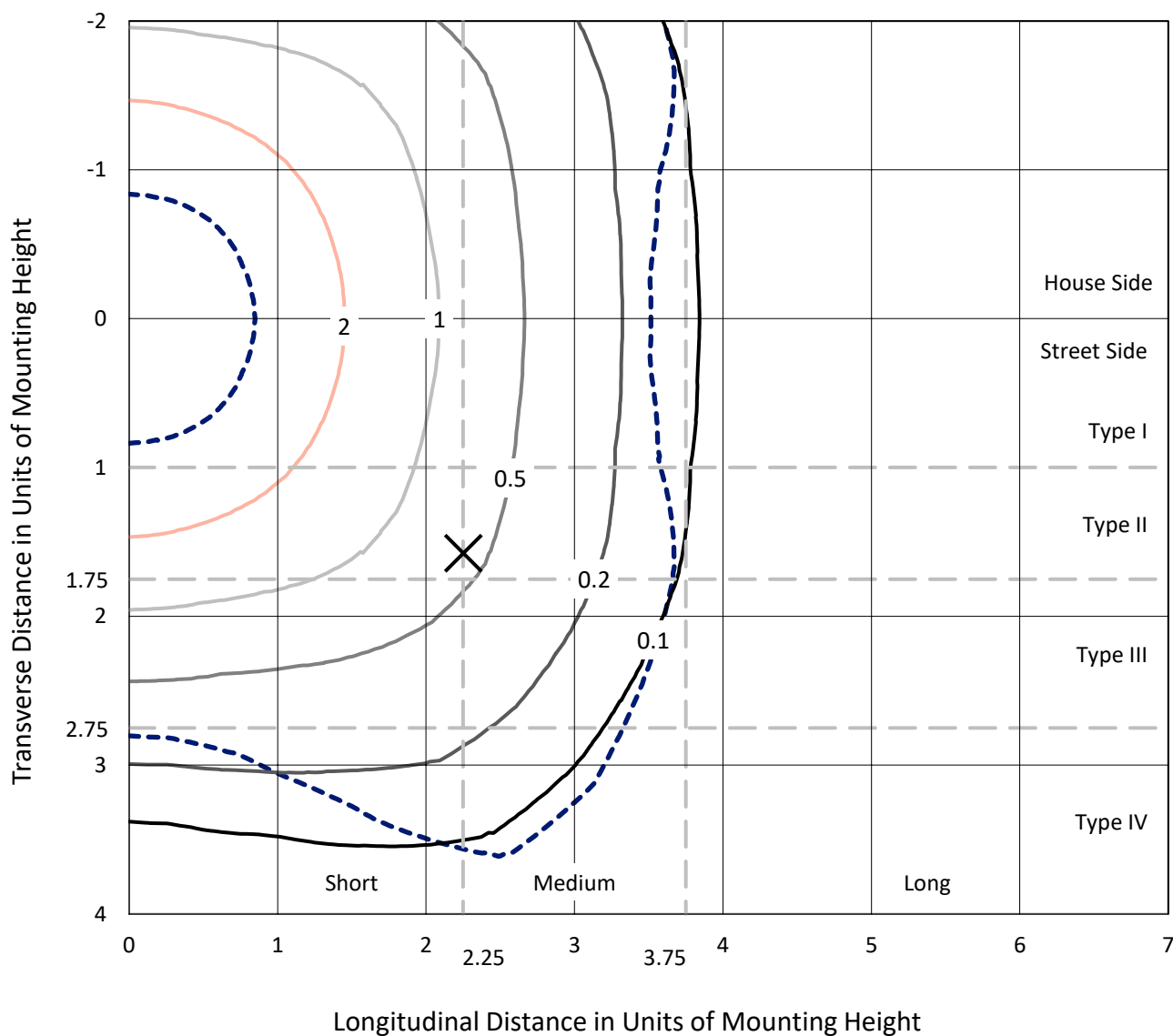
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

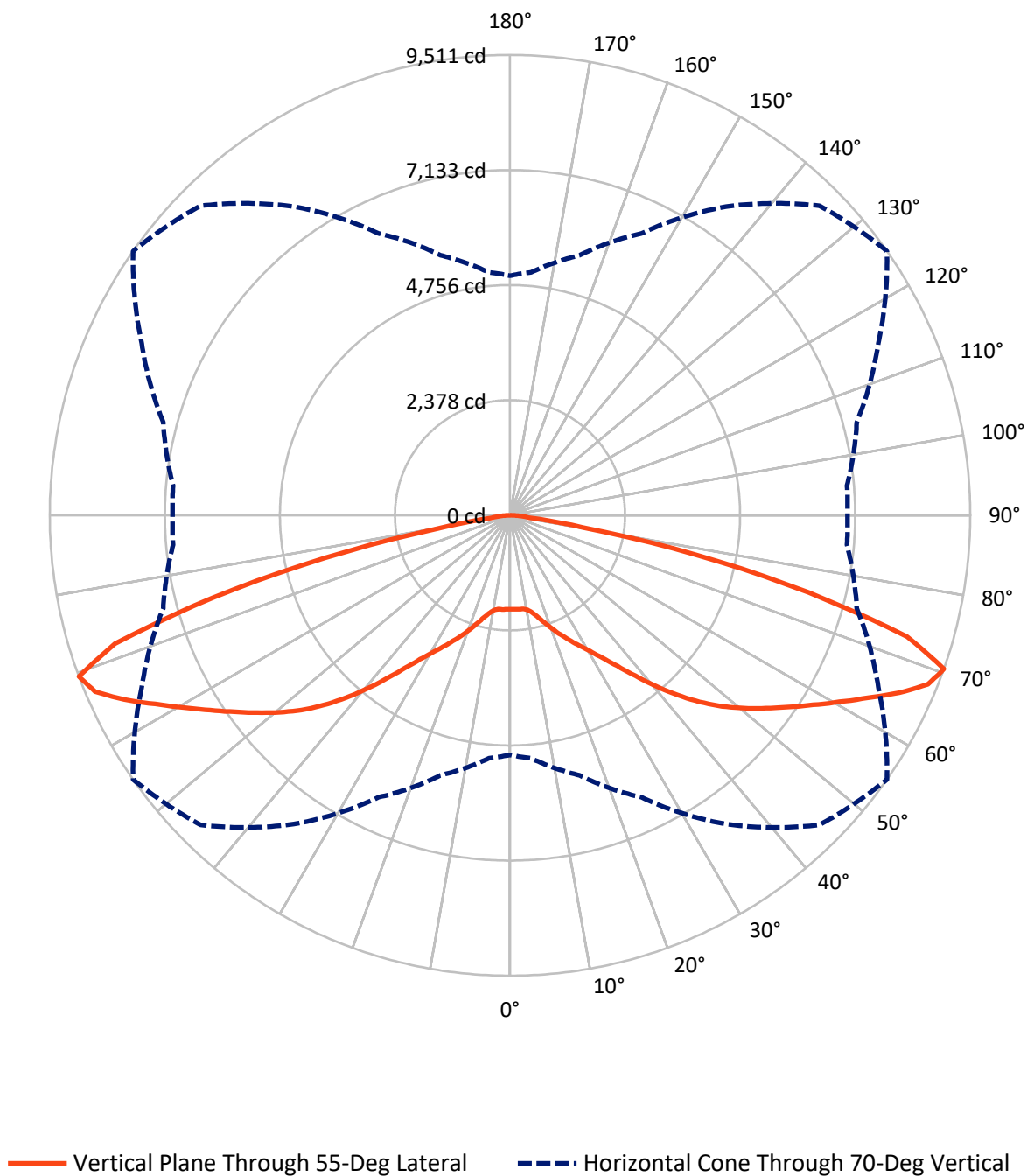


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13926.5	0.0	13926.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13926.5	0.0	13926.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27853.0	0.0	27853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	0.7
10°-20°	637.9	2.3
20°-30°	1325.6	4.8
30°-40°	2448.2	8.8
40°-50°	4301.0	15.4
50°-60°	6203.1	22.3
60°-70°	7591.9	27.3
70°-80°	4830.9	17.3
80°-90°	326.9	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°	27853.0	100.0
0°-180°	27853.0	100.0

Coefficient of Utilization



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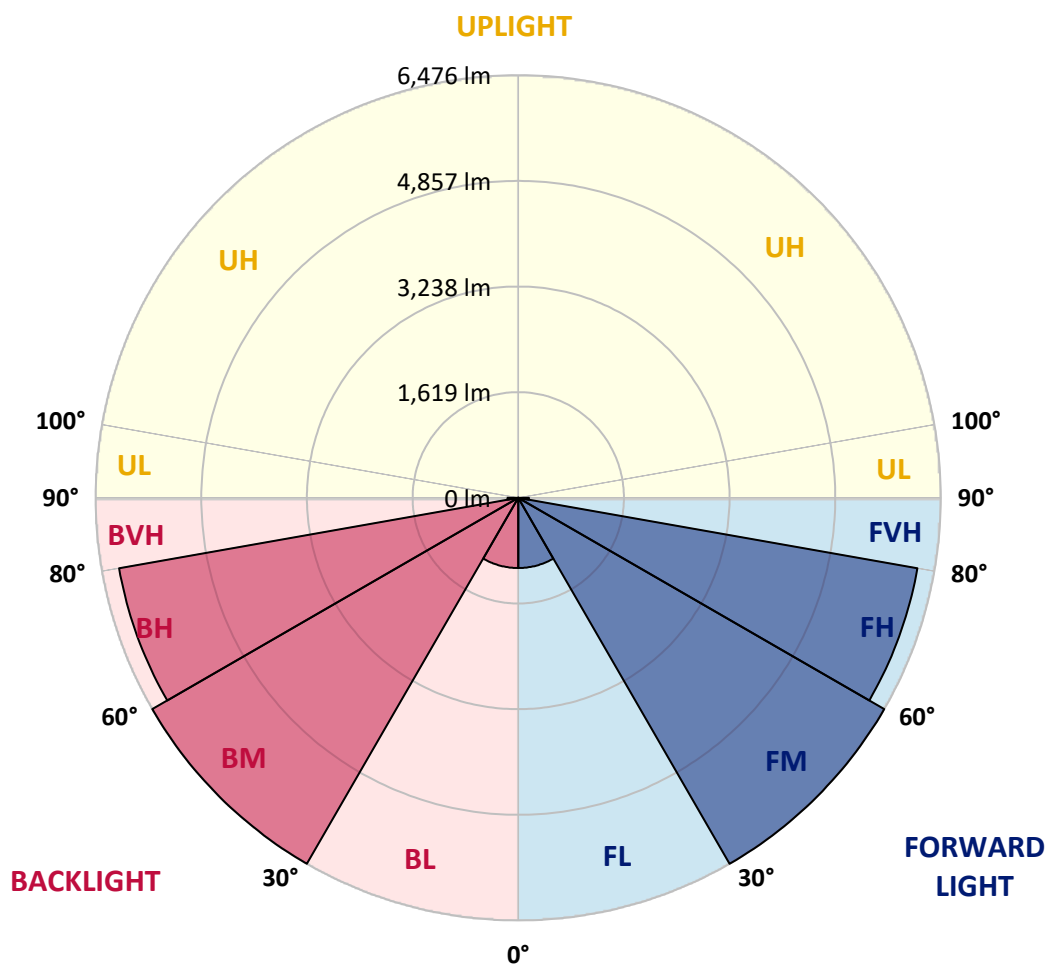
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1075.5	3.9			
FM	(30°-60°)	6476.2	23.3			
FH	(60°-80°)	6211.4	22.3			G3/7500
FVH	(80°-90°)	163.4	0.6			G2/225
BL	(0°-30°)	1075.5	3.9	B3/2500		
BM	(30°-60°)	6476.2	23.3	B4/8500		
BH	(60°-80°)	6211.4	22.3	B5		G3/7500
BVH	(80°-90°)	163.4	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-G3

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1941.6	1941.6	1941.6	1941.6	1941.6	1941.6	1941.6	1941.6	1941.6	1941.6	1941.6
2.5°	1967.5	1967.5	1962.3	1962.3	1952.0	1946.8	1941.6	1941.6	1936.4	1936.4	1931.3
5°	1977.9	1977.9	1977.9	1972.7	1967.5	1962.3	1952.0	1941.6	1936.4	1931.3	1926.1
7.5°	1983.0	1983.0	1977.9	1977.9	1972.7	1967.5	1952.0	1936.4	1931.3	1926.1	1926.1
10°	2024.5	2019.3	2014.1	2003.7	2003.7	2003.7	1983.0	1967.5	1962.3	1962.3	1962.3
12.5°	2122.8	2117.7	2107.3	2091.8	2091.8	2096.9	2065.9	2045.2	2045.2	2040.0	2040.0
15°	2267.8	2262.6	2252.3	2226.4	2221.2	2231.6	2185.0	2164.3	2164.3	2164.3	2159.1
17.5°	2428.3	2418.0	2402.4	2381.7	2381.7	2381.7	2335.1	2309.2	2293.7	2293.7	2288.5
20°	2562.9	2557.8	2557.8	2552.6	2568.1	2568.1	2506.0	2464.6	2428.3	2407.6	2402.4
22.5°	2682.0	2676.8	2687.2	2707.9	2739.0	2749.3	2676.8	2614.7	2557.8	2516.3	2506.0
25°	2842.5	2837.3	2832.2	2863.2	2915.0	2930.5	2852.9	2775.2	2718.3	2697.6	2687.2
27.5°	3013.4	3018.6	3023.7	3054.8	3096.2	3122.1	3044.5	2972.0	2925.4	2894.3	2883.9
30°	3205.0	3215.3	3230.9	3277.4	3308.5	3318.9	3251.6	3199.8	3158.4	3132.5	3116.9
32.5°	3448.3	3469.0	3489.7	3531.2	3546.7	3536.3	3505.3	3469.0	3438.0	3401.7	3396.5
35°	3810.7	3831.5	3826.3	3841.8	3847.0	3836.6	3821.1	3800.4	3784.9	3738.3	3733.1
37.5°	4266.4	4287.1	4256.0	4240.5	4204.2	4209.4	4204.2	4219.8	4225.0	4178.4	4173.2
40°	4727.2	4747.9	4706.5	4665.1	4628.8	4613.3	4639.2	4690.9	4690.9	4659.9	4659.9
42.5°	5219.1	5234.6	5167.3	5115.5	5068.9	5058.6	5074.1	5136.2	5151.8	5146.6	5146.6
45°	5710.9	5700.6	5612.6	5560.8	5519.4	5493.5	5498.7	5545.3	5576.3	5591.9	5591.9
47.5°	6088.9	6073.4	6000.9	5959.5	5933.6	5897.3	5897.3	5923.2	5938.8	5943.9	5943.9
50°	6389.2	6373.7	6301.2	6296.0	6296.0	6280.5	6265.0	6259.8	6249.4	6254.6	6254.6
52.5°	6648.1	6627.4	6575.6	6586.0	6632.6	6642.9	6622.2	6580.8	6539.4	6523.8	6529.0
55°	6927.7	6896.6	6855.2	6886.3	6979.5	7020.9	6989.8	6907.0	6834.5	6787.9	6787.9
57.5°	7150.3	7114.1	7114.1	7202.1	7373.0	7455.8	7388.5	7233.2	7108.9	7057.1	7062.3
60°	6995.0	6963.9	7088.2	7476.5	7797.5	7937.3	7823.4	7549.0	7347.1	7284.9	7295.3
62.5°	6689.5	6668.8	6824.1	7424.7	8180.7	8470.6	8299.8	7906.3	7606.0	7533.5	7533.5
65°	6239.1	6233.9	6451.3	7191.7	8268.7	8983.2	8838.2	8294.6	7906.3	7807.9	7828.6
67.5°	5773.1	5773.1	5969.8	6793.1	8165.1	9200.7	9314.6	8646.7	8051.2	7807.9	7813.1
70°	4949.8	5037.8	5560.8	6425.5	7787.2	9045.3	9511.3	8398.1	7419.6	6989.8	6974.3
72.5°	3261.9	3375.8	4416.5	5783.4	7414.4	8481.0	8584.5	7378.1	6161.4	5659.2	5633.3
75°	1967.5	2065.9	2863.2	4514.9	6518.7	6829.3	6373.7	5783.4	4602.9	4209.4	4209.4
77.5°	579.9	647.2	1320.3	2863.2	4509.7	4489.0	3929.8	3406.9	2723.4	2314.4	2345.5
80°	341.7	352.1	429.7	1304.8	1869.1	1967.5	1517.0	947.5	947.5	704.2	683.4
82.5°	264.1	264.1	274.4	326.2	450.5	502.2	383.1	326.2	372.8	315.8	300.3
85°	186.4	186.4	186.4	191.6	196.8	201.9	212.3	217.5	238.2	196.8	186.4
87.5°	57.0	62.1	67.3	77.7	93.2	98.4	103.6	93.2	93.2	88.0	82.8
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)