

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: P841657

Luminaire Tested: **ARCH4-210-727-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841657
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: ARCH4-210-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30717 lumens
Efficiency: N/A
Efficacy: 144.1 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

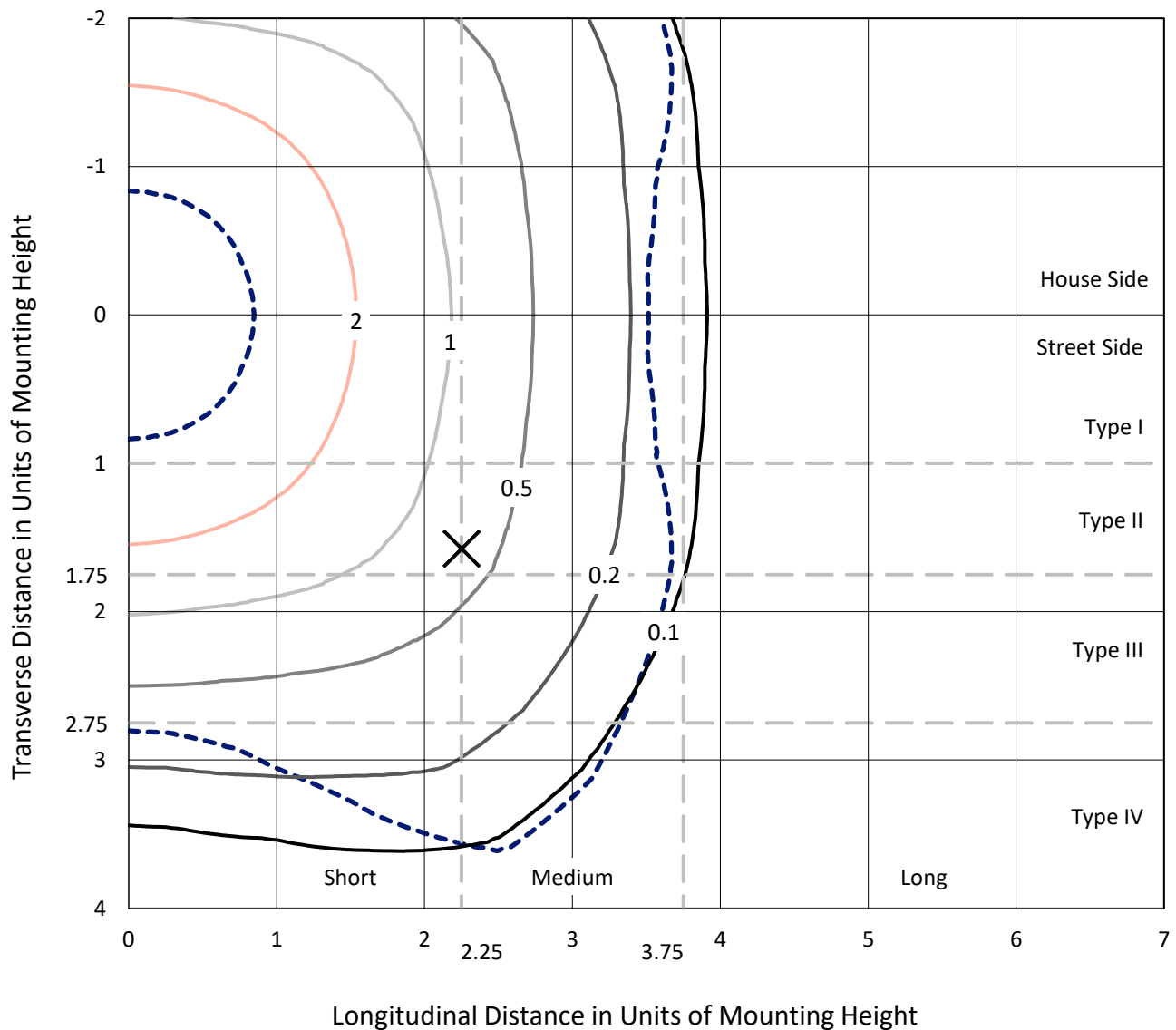


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Iso-Footcandle Lines of Horizontal Illumination

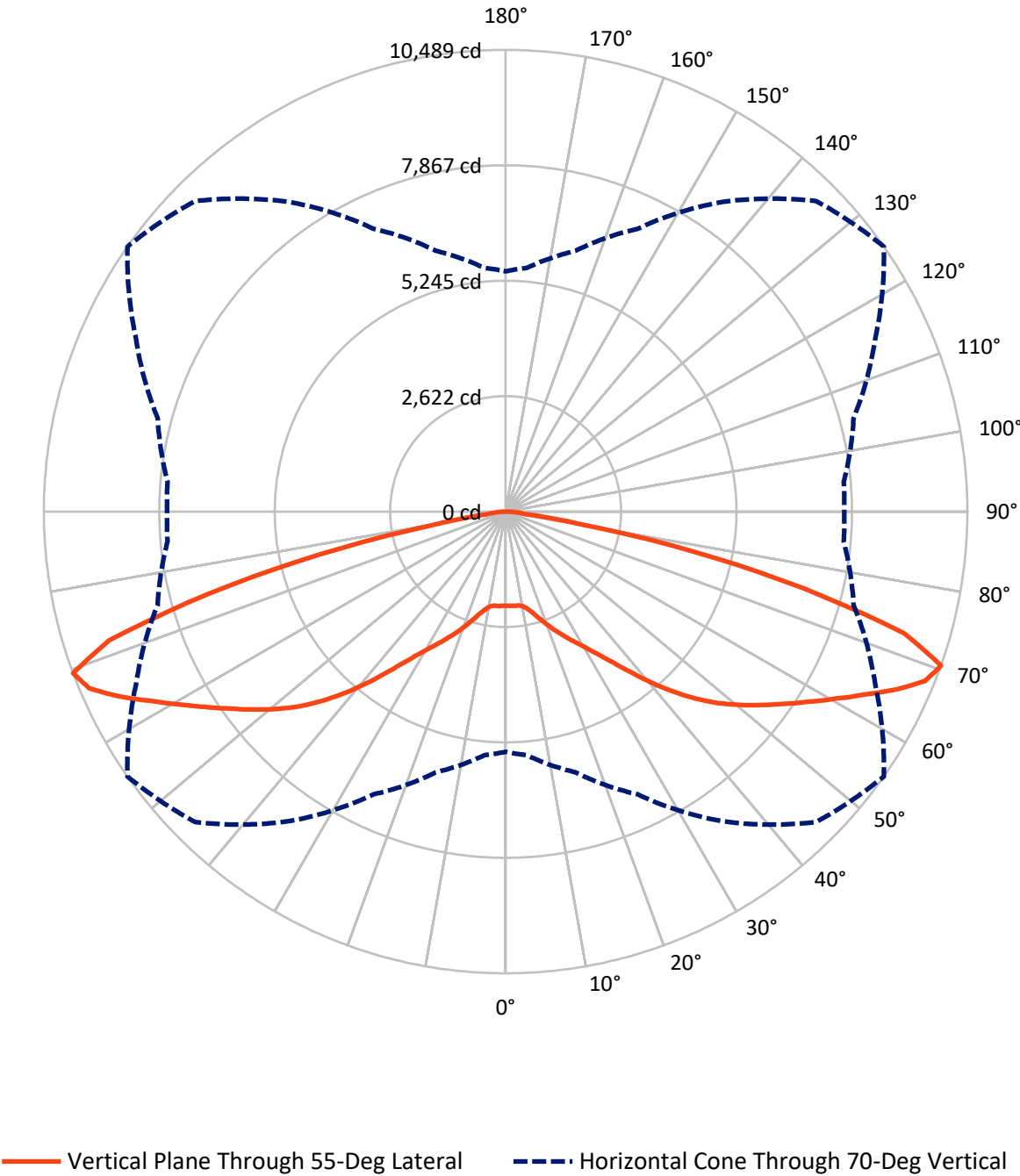
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	15358.5	0.0	15358.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15358.5	0.0	15358.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30717.0	0.0	30717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	0.7
10°-20°	703.5	2.3
20°-30°	1461.9	4.8
30°-40°	2700.0	8.8
40°-50°	4743.3	15.4
50°-60°	6840.9	22.3
60°-70°	8372.5	27.3
70°-80°	5327.6	17.3
80°-90°	360.5	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°	30717.0	100.0
0°-180°	30717.0	100.0

Coefficient of Utilization



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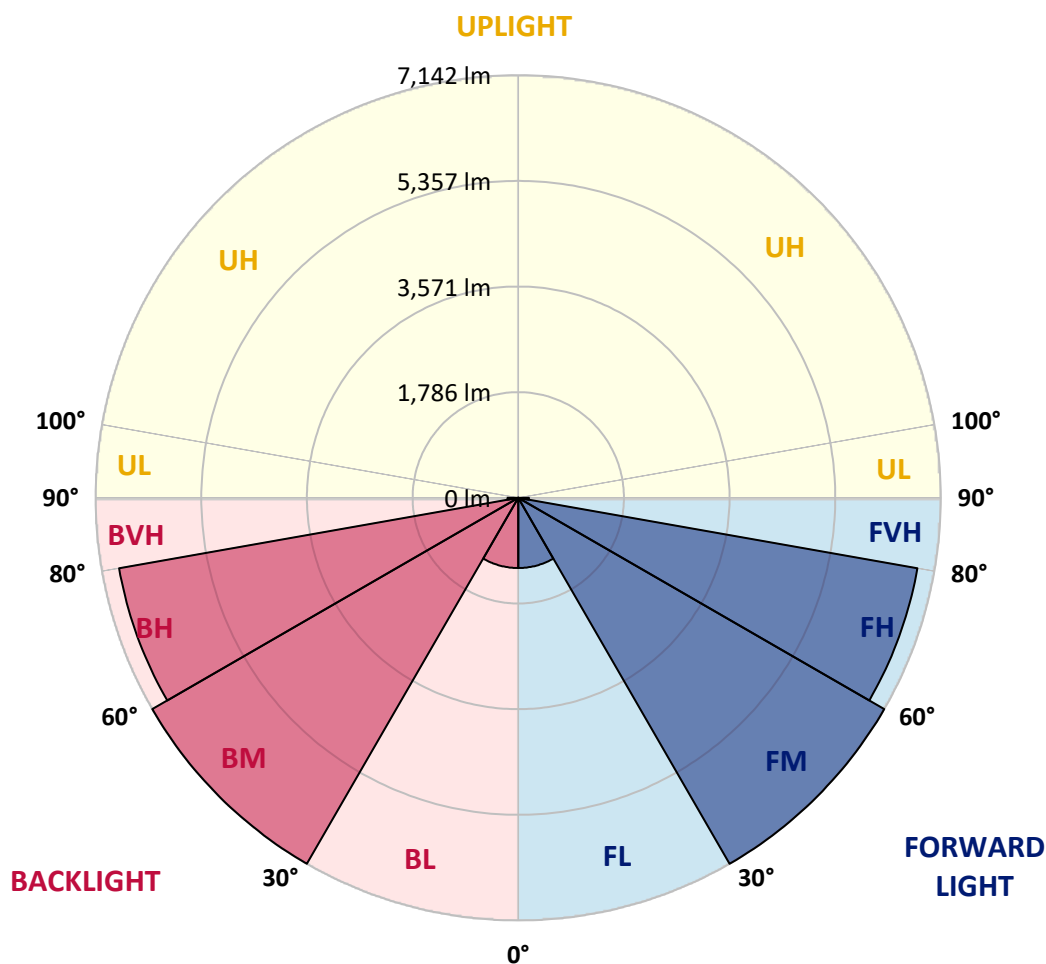
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1186.1	3.9			
FM	(30°-60°)	7142.1	23.3			
FH	(60°-80°)	6850.1	22.3			G3/7500
FVH	(80°-90°)	180.2	0.6			G2/225
BL	(0°-30°)	1186.1	3.9	B3/2500		
BM	(30°-60°)	7142.1	23.3	B4/8500		
BH	(60°-80°)	6850.1	22.3	B5		G3/7500
BVH	(80°-90°)	180.2	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°	2141.3	2141.3	2141.3	2141.3	2141.3	2141.3	2141.3	2141.3	2141.3	2141.3	2141.3
2.5°	2169.8	2169.8	2164.1	2164.1	2152.7	2147.0	2141.3	2141.3	2135.6	2135.6	2129.8
5°	2181.2	2181.2	2181.2	2175.5	2169.8	2164.1	2152.7	2141.3	2135.6	2129.8	2124.1
7.5°	2186.9	2186.9	2181.2	2181.2	2175.5	2169.8	2152.7	2135.6	2129.8	2124.1	2124.1
10°	2232.6	2226.9	2221.2	2209.8	2209.8	2209.8	2186.9	2169.8	2164.1	2164.1	2164.1
12.5°	2341.1	2335.4	2324.0	2306.9	2306.9	2312.6	2278.3	2255.5	2255.5	2249.8	2249.8
15°	2501.0	2495.3	2483.9	2455.3	2449.6	2461.0	2409.6	2386.8	2386.8	2386.8	2381.1
17.5°	2678.0	2666.6	2649.5	2626.6	2626.6	2626.6	2575.2	2546.7	2529.5	2529.5	2523.8
20°	2826.5	2820.8	2820.8	2815.0	2832.2	2832.2	2763.7	2718.0	2678.0	2655.2	2649.5
22.5°	2957.8	2952.1	2963.5	2986.4	3020.6	3032.0	2952.1	2883.6	2820.8	2775.1	2763.7
25°	3134.8	3129.1	3123.4	3157.7	3214.8	3231.9	3146.2	3060.6	2997.8	2974.9	2963.5
27.5°	3323.2	3329.0	3334.7	3368.9	3414.6	3443.2	3357.5	3277.6	3226.2	3191.9	3180.5
30°	3534.5	3545.9	3563.1	3614.5	3648.7	3660.1	3585.9	3528.8	3483.1	3454.6	3437.4
32.5°	3802.9	3825.7	3848.6	3894.2	3911.4	3900.0	3865.7	3825.7	3791.5	3751.5	3745.8
35°	4202.6	4225.4	4219.7	4236.8	4242.6	4231.1	4214.0	4191.2	4174.0	4122.6	4116.9
37.5°	4705.1	4727.9	4693.7	4676.5	4636.6	4642.3	4636.6	4653.7	4659.4	4608.0	4602.3
40°	5213.3	5236.1	5190.4	5144.7	5104.8	5087.6	5116.2	5173.3	5173.3	5139.0	5139.0
42.5°	5755.7	5772.8	5698.6	5641.5	5590.1	5578.7	5595.8	5664.4	5681.5	5675.8	5675.8
45°	6298.2	6286.8	6189.7	6132.6	6086.9	6058.4	6064.1	6115.5	6149.7	6166.8	6166.8
47.5°	6715.0	6697.9	6617.9	6572.3	6543.7	6503.7	6503.7	6532.3	6549.4	6555.1	6555.1
50°	7046.2	7029.1	6949.1	6943.4	6943.4	6926.3	6909.1	6903.4	6892.0	6897.7	6897.7
52.5°	7331.7	7308.9	7251.7	7263.2	7314.6	7326.0	7303.1	7257.5	7211.8	7194.6	7200.4
55°	7640.0	7605.8	7560.1	7594.4	7697.1	7742.8	7708.6	7617.2	7537.3	7485.9	7485.9
57.5°	7885.6	7845.6	7845.6	7942.7	8131.1	8222.5	8148.2	7976.9	7839.9	7782.8	7788.5
60°	7714.3	7680.0	7817.0	8245.3	8599.3	8753.5	8627.9	8325.2	8102.5	8034.0	8045.4
62.5°	7377.4	7354.5	7525.8	8188.2	9021.9	9341.6	9153.2	8719.2	8388.0	8308.1	8308.1
65°	6880.6	6874.9	7114.7	7931.2	9118.9	9906.9	9747.0	9147.5	8719.2	8610.7	8633.6
67.5°	6366.7	6366.7	6583.7	7491.6	9004.7	10146.7	10272.4	9535.8	8879.1	8610.7	8616.4
70°	5458.8	5555.9	6132.6	7086.2	8587.9	9975.4	10489.3	9261.7	8182.5	7708.6	7691.4
72.5°	3597.3	3722.9	4870.7	6378.1	8176.8	9353.0	9467.2	8136.8	6794.9	6241.1	6212.5
75°	2169.8	2278.3	3157.7	4979.2	7188.9	7531.5	7029.1	6378.1	5076.2	4642.3	4642.3
77.5°	639.5	713.8	1456.1	3157.7	4973.4	4950.6	4333.9	3757.2	3003.5	2552.4	2586.6
80°	376.9	388.3	473.9	1438.9	2061.3	2169.8	1673.0	1044.9	1044.9	776.6	753.7
82.5°	291.2	291.2	302.6	359.7	496.8	553.9	422.5	359.7	411.1	348.3	331.2
85°	205.6	205.6	205.6	211.3	217.0	222.7	234.1	239.8	262.7	217.0	205.6
87.5°	62.8	68.5	74.2	85.7	102.8	108.5	114.2	102.8	102.8	97.1	91.4
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)