

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: P842152

Luminaire Tested: **ARCH4-280-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842152
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: ARCH4-280-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1085mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34332 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B5 - U0 - G4

Input Watts (W): 279.7
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

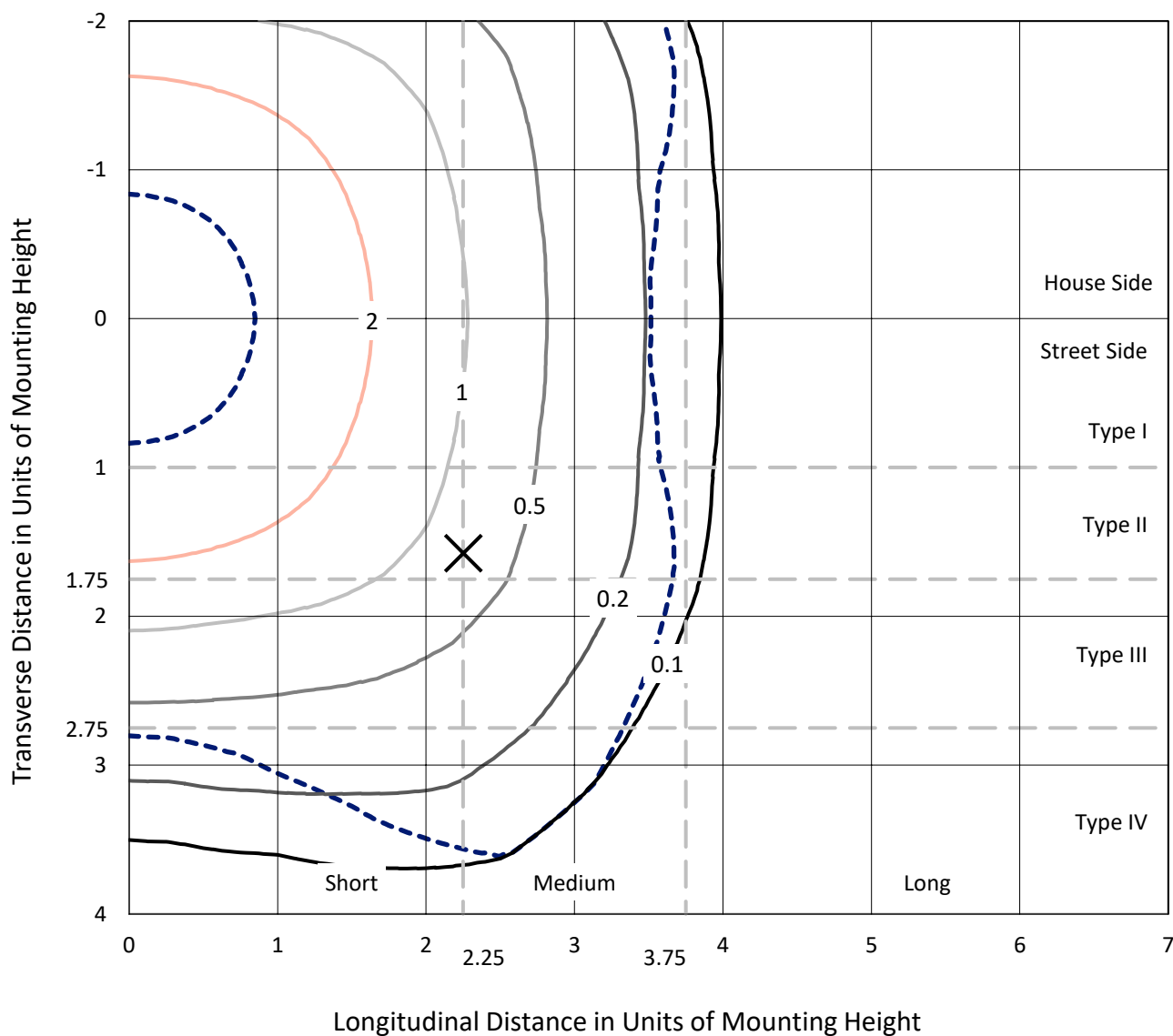


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

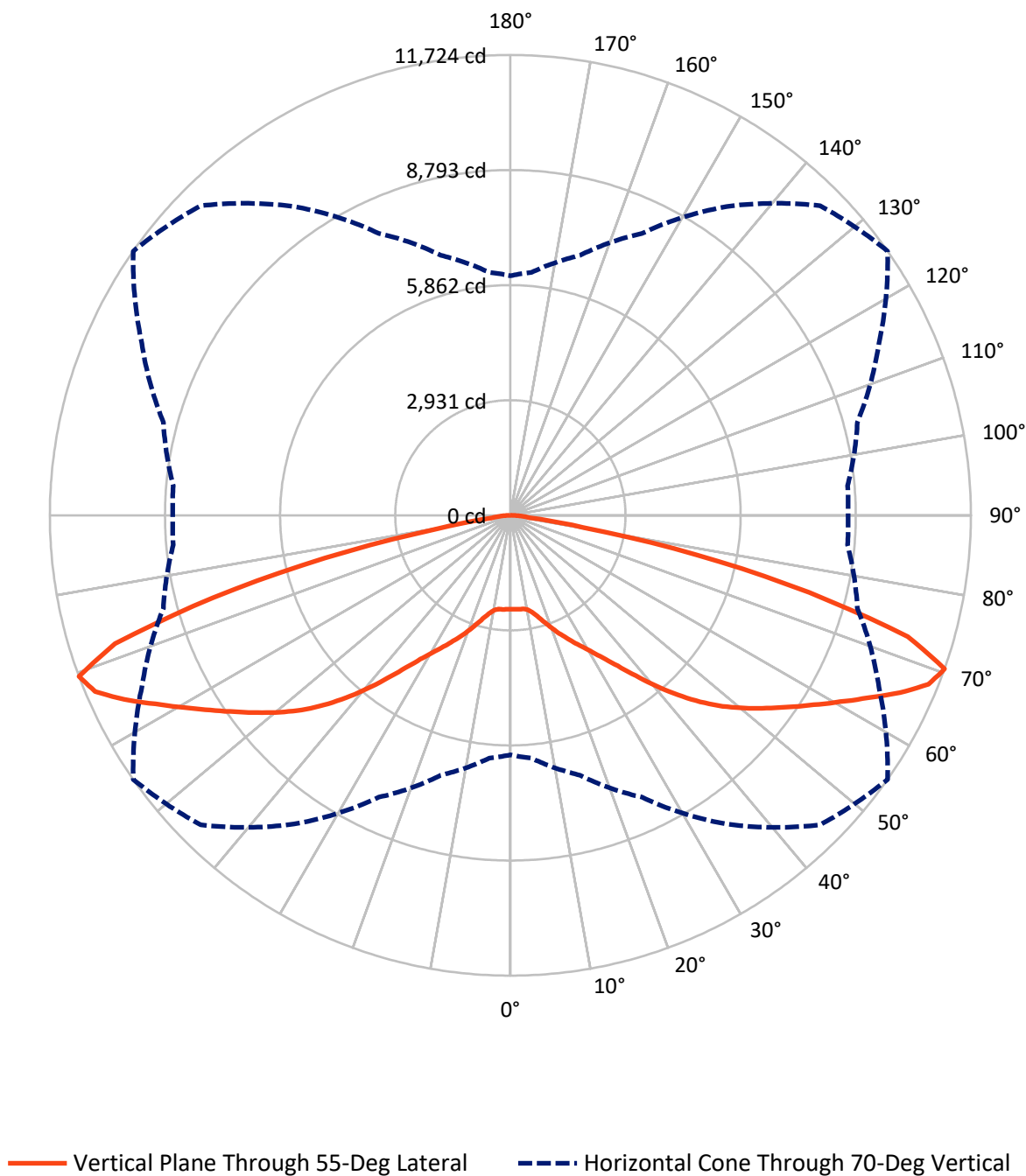


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17166.0	0.0	17166.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17166.0	0.0	17166.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34332.0	0.0	34332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	0.7
10°-20°	786.3	2.3
20°-30°	1633.9	4.8
30°-40°	3017.7	8.8
40°-50°	5301.5	15.4
50°-60°	7646.0	22.3
60°-70°	9357.9	27.3
70°-80°	5954.6	17.3
80°-90°	402.9	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°	34332.0	100.0
0°-180°	34332.0	100.0

Coefficient of Utilization



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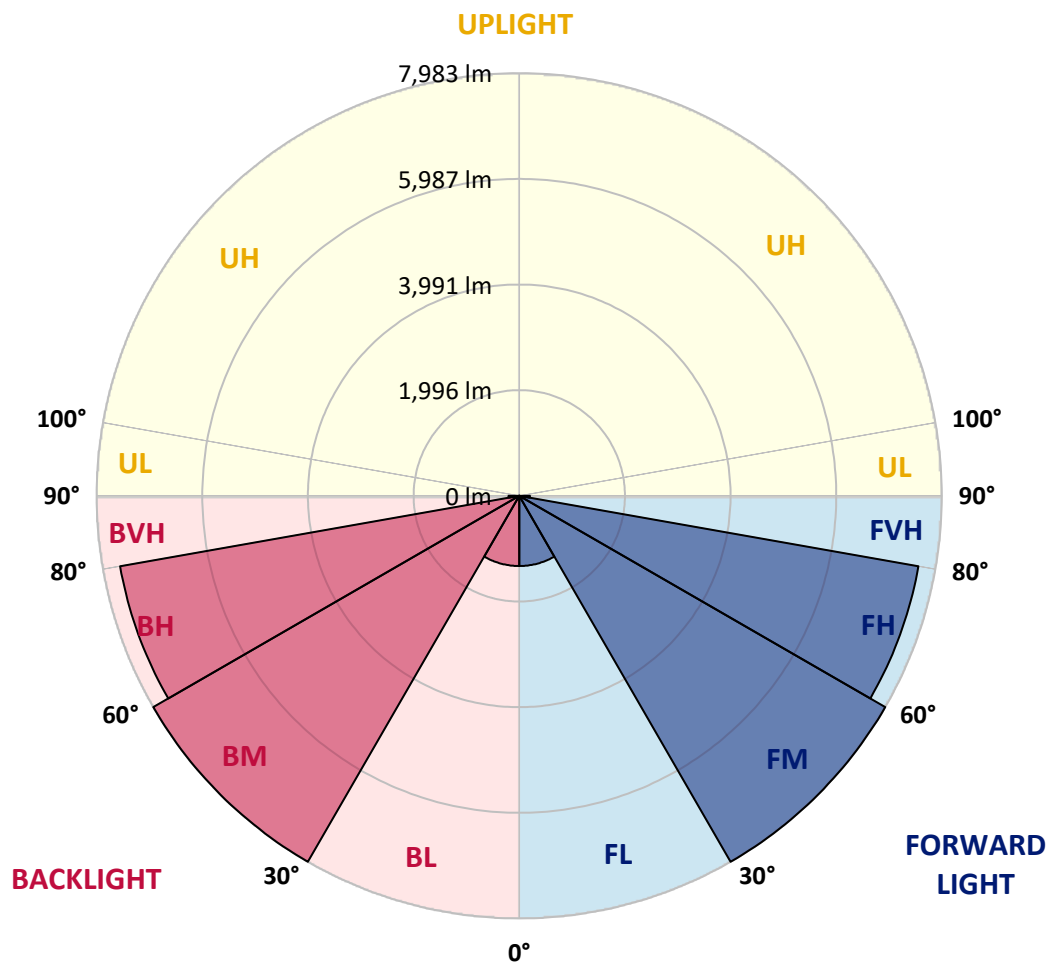
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1325.7	3.9			
FM	(30°-60°)	7982.6	23.3			
FH	(60°-80°)	7656.3	22.3			G4/12000
FVH	(80°-90°)	201.5	0.6			G2/225
BL	(0°-30°)	1325.7	3.9	B3/2500		
BM	(30°-60°)	7982.6	23.3	B4/8500		
BH	(60°-80°)	7656.3	22.3	B5		G4/12000
BVH	(80°-90°)	201.5	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°	2393.3	2393.3	2393.3	2393.3	2393.3	2393.3	2393.3	2393.3	2393.3	2393.3	2393.3
2.5°	2425.2	2425.2	2418.8	2418.8	2406.0	2399.6	2393.3	2393.3	2386.9	2386.9	2380.5
5°	2437.9	2437.9	2437.9	2431.6	2425.2	2418.8	2406.0	2393.3	2386.9	2380.5	2374.1
7.5°	2444.3	2444.3	2437.9	2437.9	2431.6	2425.2	2406.0	2386.9	2380.5	2374.1	2374.1
10°	2495.4	2489.0	2482.6	2469.8	2469.8	2469.8	2444.3	2425.2	2418.8	2418.8	2418.8
12.5°	2616.6	2610.3	2597.5	2578.3	2578.3	2584.7	2546.4	2520.9	2520.9	2514.5	2514.5
15°	2795.3	2789.0	2776.2	2744.3	2737.9	2750.7	2693.2	2667.7	2667.7	2667.7	2661.3
17.5°	2993.2	2980.4	2961.3	2935.7	2935.7	2935.7	2878.3	2846.4	2827.2	2827.2	2820.9
20°	3159.1	3152.7	3152.7	3146.3	3165.5	3165.5	3088.9	3037.9	2993.2	2967.6	2961.3
22.5°	3305.9	3299.5	3312.3	3337.8	3376.1	3388.9	3299.5	3222.9	3152.7	3101.7	3088.9
25°	3503.7	3497.4	3491.0	3529.3	3593.1	3612.2	3516.5	3420.8	3350.6	3325.0	3312.3
27.5°	3714.3	3720.7	3727.1	3765.4	3816.5	3848.4	3752.6	3663.3	3605.9	3567.6	3554.8
30°	3950.5	3963.2	3982.4	4039.8	4078.1	4090.9	4007.9	3944.1	3893.0	3861.1	3842.0
32.5°	4250.4	4276.0	4301.5	4352.5	4371.7	4358.9	4320.6	4276.0	4237.7	4193.0	4186.6
35°	4697.2	4722.7	4716.3	4735.5	4741.9	4729.1	4709.9	4684.4	4665.3	4607.8	4601.4
37.5°	5258.8	5284.3	5246.0	5226.9	5182.2	5188.6	5182.2	5201.4	5207.7	5150.3	5143.9
40°	5826.8	5852.3	5801.3	5750.2	5705.5	5686.4	5718.3	5782.1	5782.1	5743.8	5743.8
42.5°	6433.1	6452.2	6369.3	6305.5	6248.0	6235.3	6254.4	6331.0	6350.1	6343.7	6343.7
45°	7039.4	7026.6	6918.1	6854.3	6803.3	6771.3	6777.7	6835.2	6873.5	6892.6	6892.6
47.5°	7505.3	7486.1	7396.8	7345.7	7313.8	7269.1	7269.1	7301.1	7320.2	7326.6	7326.6
50°	7875.4	7856.3	7766.9	7760.6	7760.6	7741.4	7722.3	7715.9	7703.1	7709.5	7709.5
52.5°	8194.5	8169.0	8105.2	8118.0	8175.4	8188.2	8162.6	8111.6	8060.5	8041.4	8047.8
55°	8539.2	8500.9	8449.8	8488.1	8603.0	8654.0	8615.8	8513.6	8424.3	8366.9	8366.9
57.5°	8813.6	8768.9	8768.9	8877.4	9088.0	9190.1	9107.2	8915.7	8762.5	8698.7	8705.1
60°	8622.1	8583.8	8737.0	9215.7	9611.3	9783.7	9643.3	9305.0	9056.1	8979.5	8992.3
62.5°	8245.6	8220.1	8411.5	9151.8	10083.6	10441.0	10230.4	9745.4	9375.2	9285.9	9285.9
65°	7690.4	7684.0	7952.0	8864.7	10192.1	11072.8	10894.1	10224.0	9745.4	9624.1	9649.6
67.5°	7116.0	7116.0	7358.5	8373.2	10064.5	11340.9	11481.3	10658.0	9924.1	9624.1	9630.5
70°	6101.2	6209.7	6854.3	7920.1	9598.6	11149.4	11723.8	10351.7	9145.5	8615.8	8596.6
72.5°	4020.7	4161.1	5443.9	7128.7	9139.1	10453.8	10581.4	9094.4	7594.6	6975.6	6943.7
75°	2425.2	2546.4	3529.3	5565.1	8035.0	8417.9	7856.3	7128.7	5673.6	5188.6	5188.6
77.5°	714.8	797.8	1627.4	3529.3	5558.8	5533.2	4844.0	4199.4	3357.0	2852.8	2891.1
80°	421.2	434.0	529.7	1608.3	2303.9	2425.2	1869.9	1167.9	1167.9	868.0	842.4
82.5°	325.5	325.5	338.2	402.1	555.2	619.1	472.3	402.1	459.5	389.3	370.2
85°	229.8	229.8	229.8	236.1	242.5	248.9	261.7	268.0	293.6	242.5	229.8
87.5°	70.2	76.6	83.0	95.7	114.9	121.3	127.6	114.9	114.9	108.5	102.1
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)