

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: P836242

Luminaire Tested: **ARCH3-160-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21161 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 161
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

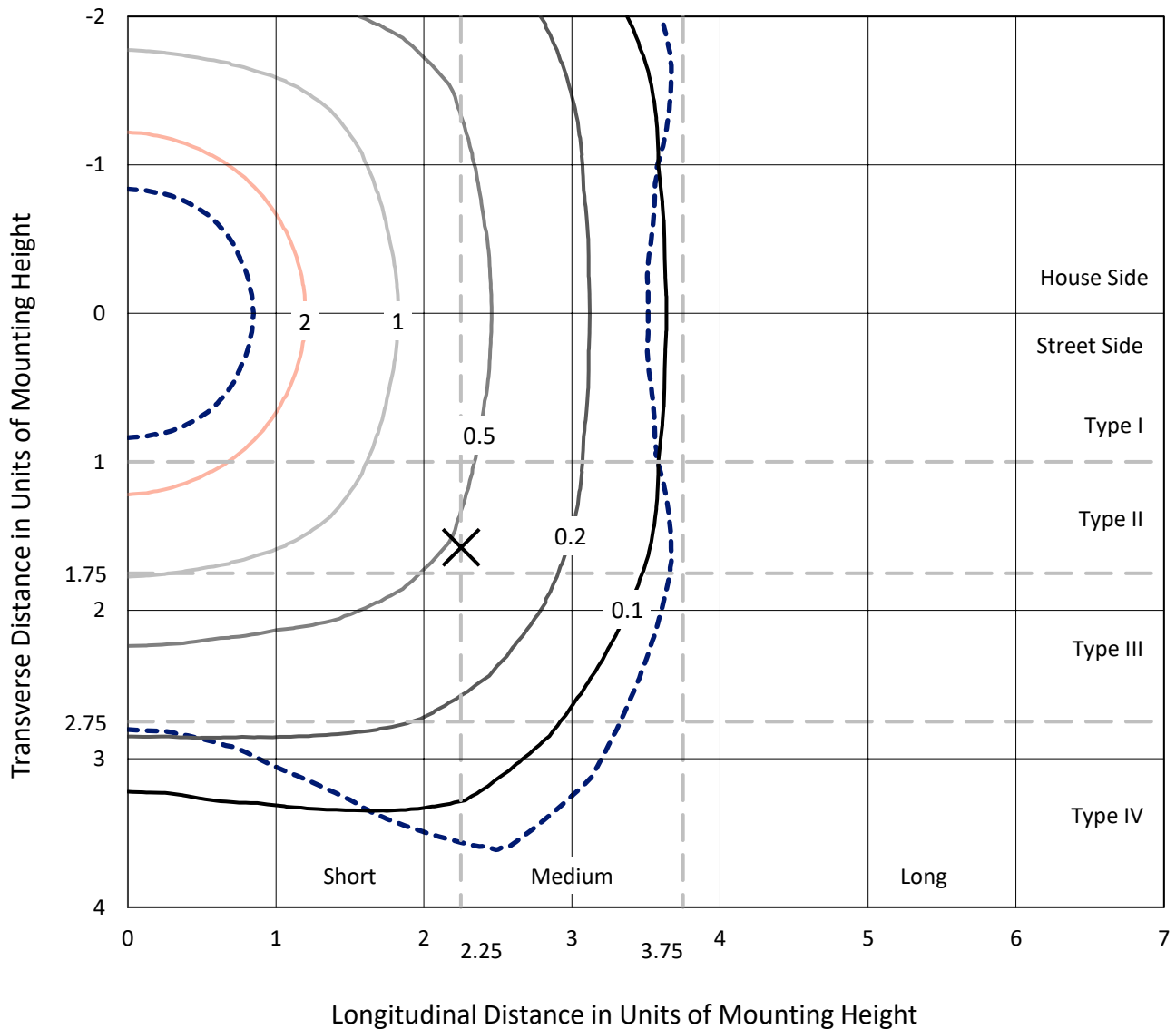


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Iso-Footcandle Lines of Horizontal Illumination

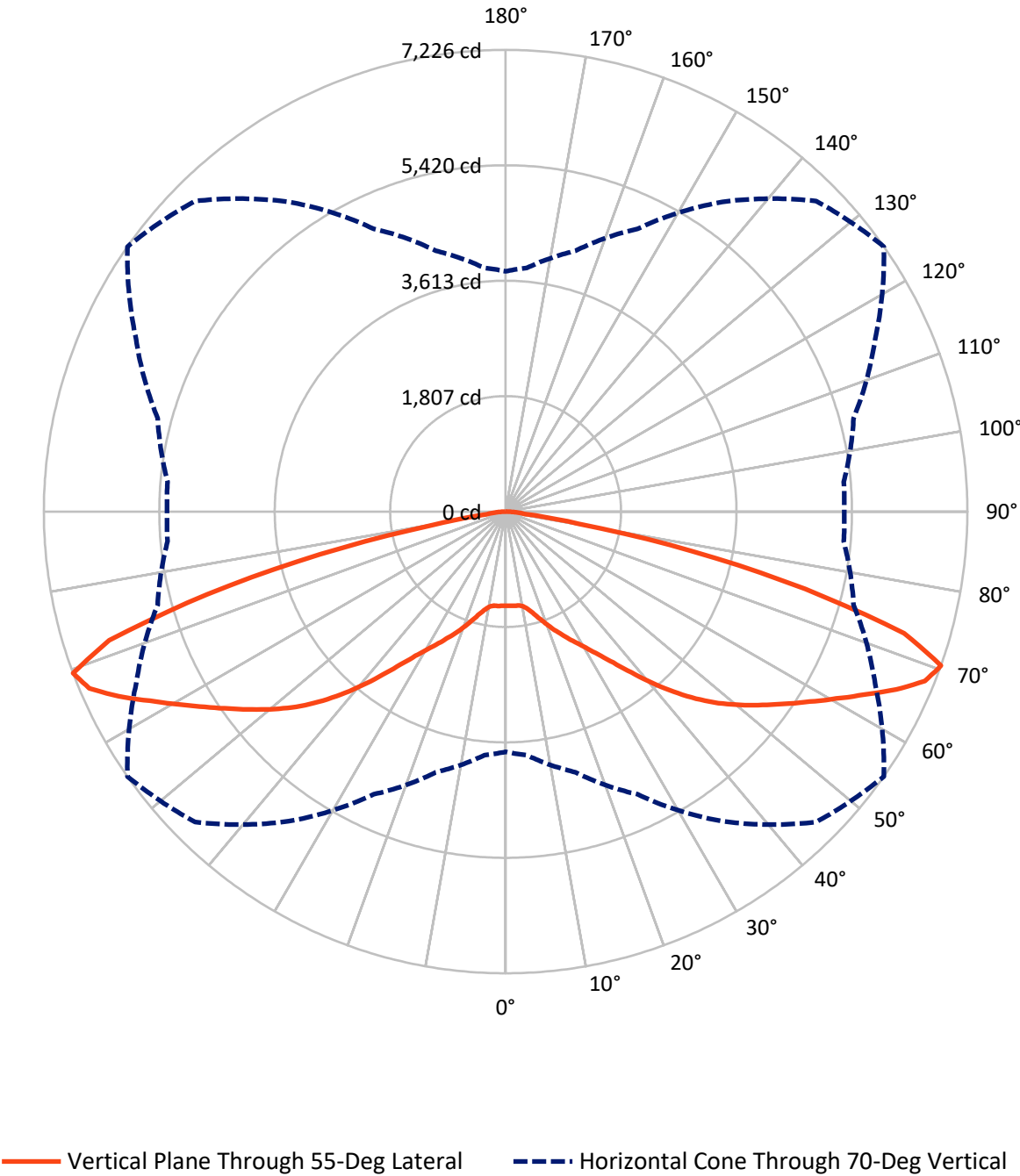
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	10580.5	0.0	10580.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10580.5	0.0	10580.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21161.0	0.0	21161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	0.7
10°-20°	484.7	2.3
20°-30°	1007.1	4.8
30°-40°	1860.0	8.8
40°-50°	3267.7	15.4
50°-60°	4712.7	22.3
60°-70°	5767.9	27.3
70°-80°	3670.2	17.3
80°-90°	248.3	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°	21161.0	100.0
0°-180°	21161.0	100.0

Coefficient of Utilization



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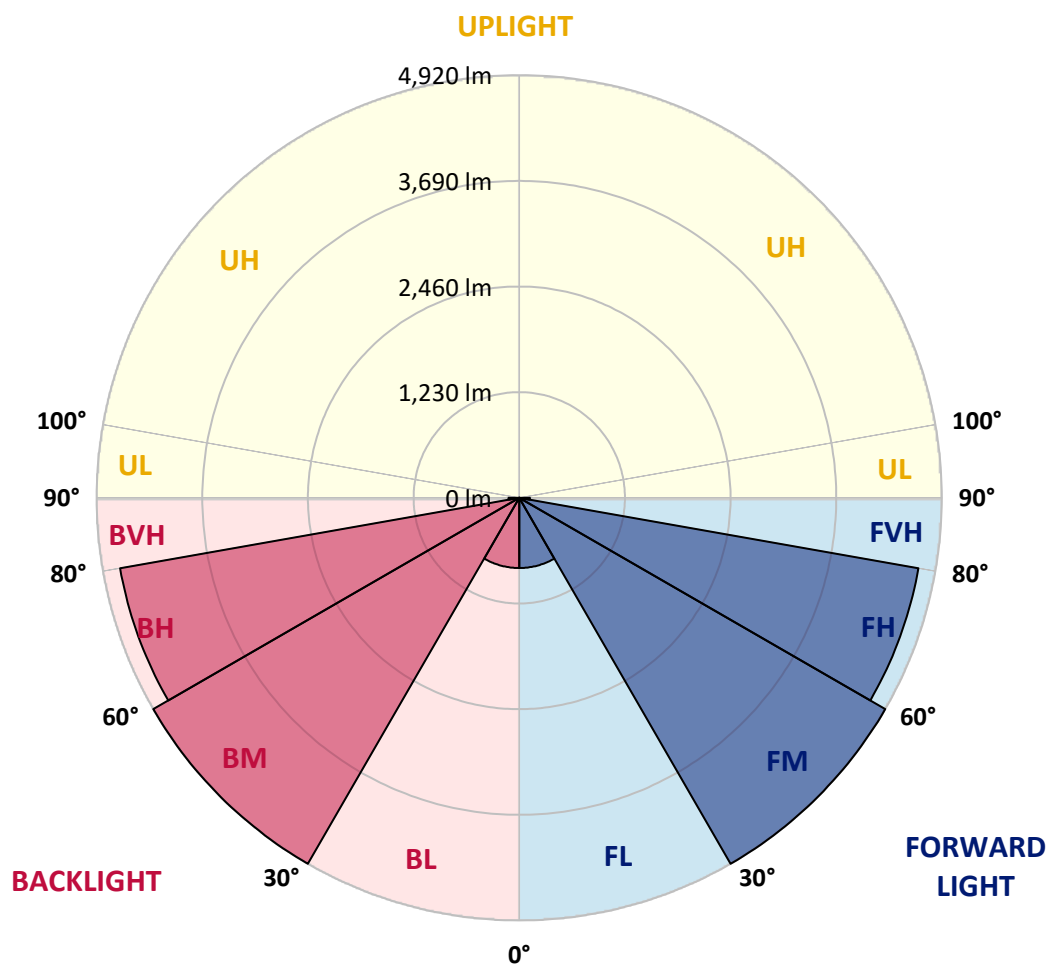
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	817.1	3.9			
FM	(30°-60°)	4920.2	23.3			
FH	(60°-80°)	4719.0	22.3			G2/5000
FVH	(80°-90°)	124.2	0.6			G2/225
BL	(0°-30°)	817.1	3.9	B2/1000		
BM	(30°-60°)	4920.2	23.3	B3/5000		
BH	(60°-80°)	4719.0	22.3	B4/5000		G2/5000
BVH	(80°-90°)	124.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1494.8	1494.8	1490.9	1490.9	1483.0	1479.1	1475.1	1475.1	1471.2	1471.2	1467.3
5°	1502.7	1502.7	1502.7	1498.7	1494.8	1490.9	1483.0	1475.1	1471.2	1467.3	1463.3
7.5°	1506.6	1506.6	1502.7	1502.7	1498.7	1494.8	1483.0	1471.2	1467.3	1463.3	1463.3
10°	1538.1	1534.1	1530.2	1522.3	1522.3	1522.3	1506.6	1494.8	1490.9	1490.9	1490.9
12.5°	1612.8	1608.9	1601.0	1589.2	1589.2	1593.1	1569.5	1553.8	1553.8	1549.9	1549.9
15°	1722.9	1719.0	1711.1	1691.5	1687.5	1695.4	1660.0	1644.3	1644.3	1644.3	1640.3
17.5°	1844.9	1837.0	1825.2	1809.5	1809.5	1809.5	1774.1	1754.4	1742.6	1742.6	1738.7
20°	1947.2	1943.2	1943.2	1939.3	1951.1	1951.1	1903.9	1872.4	1844.9	1829.2	1825.2
22.5°	2037.6	2033.7	2041.6	2057.3	2080.9	2088.8	2033.7	1986.5	1943.2	1911.8	1903.9
25°	2159.6	2155.6	2151.7	2175.3	2214.6	2226.4	2167.4	2108.4	2065.2	2049.4	2041.6
27.5°	2289.4	2293.3	2297.3	2320.9	2352.3	2372.0	2313.0	2257.9	2222.5	2198.9	2191.0
30°	2434.9	2442.8	2454.6	2490.0	2513.6	2521.5	2470.3	2431.0	2399.5	2379.9	2368.1
32.5°	2619.8	2635.6	2651.3	2682.8	2694.6	2686.7	2663.1	2635.6	2611.9	2584.4	2580.5
35°	2895.2	2910.9	2907.0	2918.8	2922.7	2914.8	2903.0	2887.3	2875.5	2840.1	2836.2
37.5°	3241.3	3257.1	3233.5	3221.7	3194.1	3198.1	3194.1	3205.9	3209.9	3174.5	3170.5
40°	3591.4	3607.2	3575.7	3544.2	3516.7	3504.9	3524.6	3563.9	3563.9	3540.3	3540.3
42.5°	3965.1	3976.9	3925.8	3886.5	3851.1	3843.2	3855.0	3902.2	3914.0	3910.1	3910.1
45°	4338.8	4331.0	4264.1	4224.7	4193.3	4173.6	4177.5	4212.9	4236.5	4248.3	4248.3
47.5°	4626.0	4614.2	4559.1	4527.6	4508.0	4480.4	4480.4	4500.1	4511.9	4515.8	4515.8
50°	4854.1	4842.3	4787.3	4783.3	4783.3	4771.5	4759.7	4755.8	4747.9	4751.9	4751.9
52.5°	5050.8	5035.1	4995.7	5003.6	5039.0	5046.9	5031.1	4999.7	4968.2	4956.4	4960.3
55°	5263.2	5239.6	5208.2	5231.8	5302.6	5334.0	5310.4	5247.5	5192.4	5157.0	5157.0
57.5°	5432.4	5404.8	5404.8	5471.7	5601.5	5664.5	5613.3	5495.3	5400.9	5361.6	5365.5
60°	5314.4	5290.8	5385.2	5680.2	5924.1	6030.3	5943.8	5735.3	5581.9	5534.7	5542.5
62.5°	5082.3	5066.6	5184.6	5640.9	6215.2	6435.5	6305.7	6006.7	5778.5	5723.5	5723.5
65°	4740.1	4736.1	4901.3	5463.8	6282.1	6824.9	6714.8	6301.7	6006.7	5932.0	5947.7
67.5°	4386.0	4386.0	4535.5	5161.0	6203.4	6990.1	7076.6	6569.2	6116.8	5932.0	5935.9
70°	3760.6	3827.4	4224.7	4881.7	5916.2	6872.1	7226.1	6380.4	5636.9	5310.4	5298.6
72.5°	2478.2	2564.7	3355.4	4393.9	5633.0	6443.3	6522.0	5605.5	4681.1	4299.5	4279.8
75°	1494.8	1569.5	2175.3	3430.1	4952.5	5188.5	4842.3	4393.9	3497.0	3198.1	3198.1
77.5°	440.6	491.7	1003.1	2175.3	3426.2	3410.5	2985.6	2588.3	2069.1	1758.3	1781.9
80°	259.6	267.5	326.5	991.3	1420.1	1494.8	1152.6	719.9	719.9	535.0	519.2
82.5°	200.6	200.6	208.5	247.8	342.2	381.6	291.1	247.8	283.2	240.0	228.2
85°	141.6	141.6	141.6	145.5	149.5	153.4	161.3	165.2	180.9	149.5	141.6
87.5°	43.3	47.2	51.1	59.0	70.8	74.7	78.7	70.8	70.8	66.9	62.9
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)