

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: P836107

Luminaire Tested: **ARCH3-140-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836107
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: ARCH3-140-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20140 lumens
Efficiency: N/A
Efficacy: 141.3 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

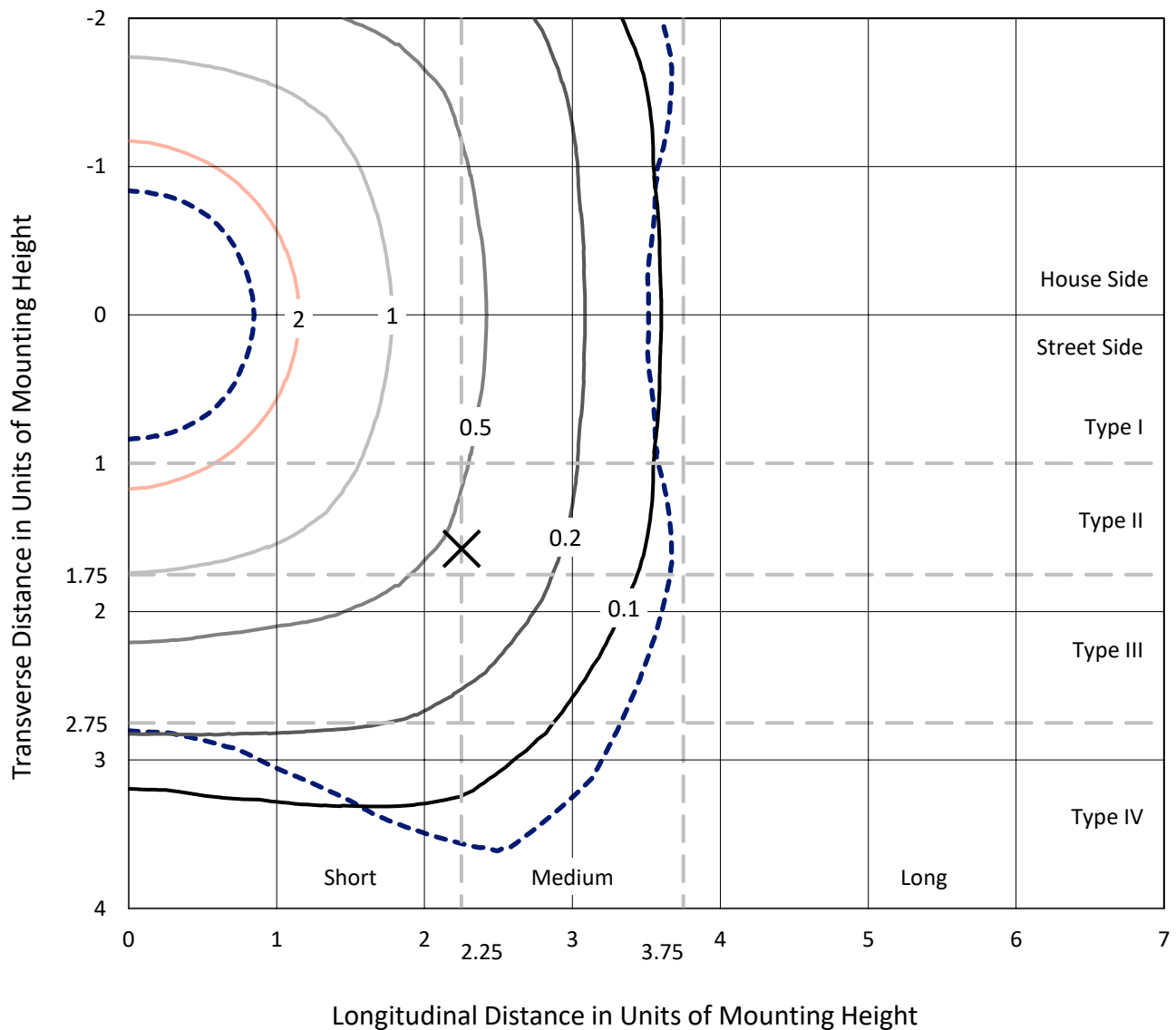
Input Watts (W): 142.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

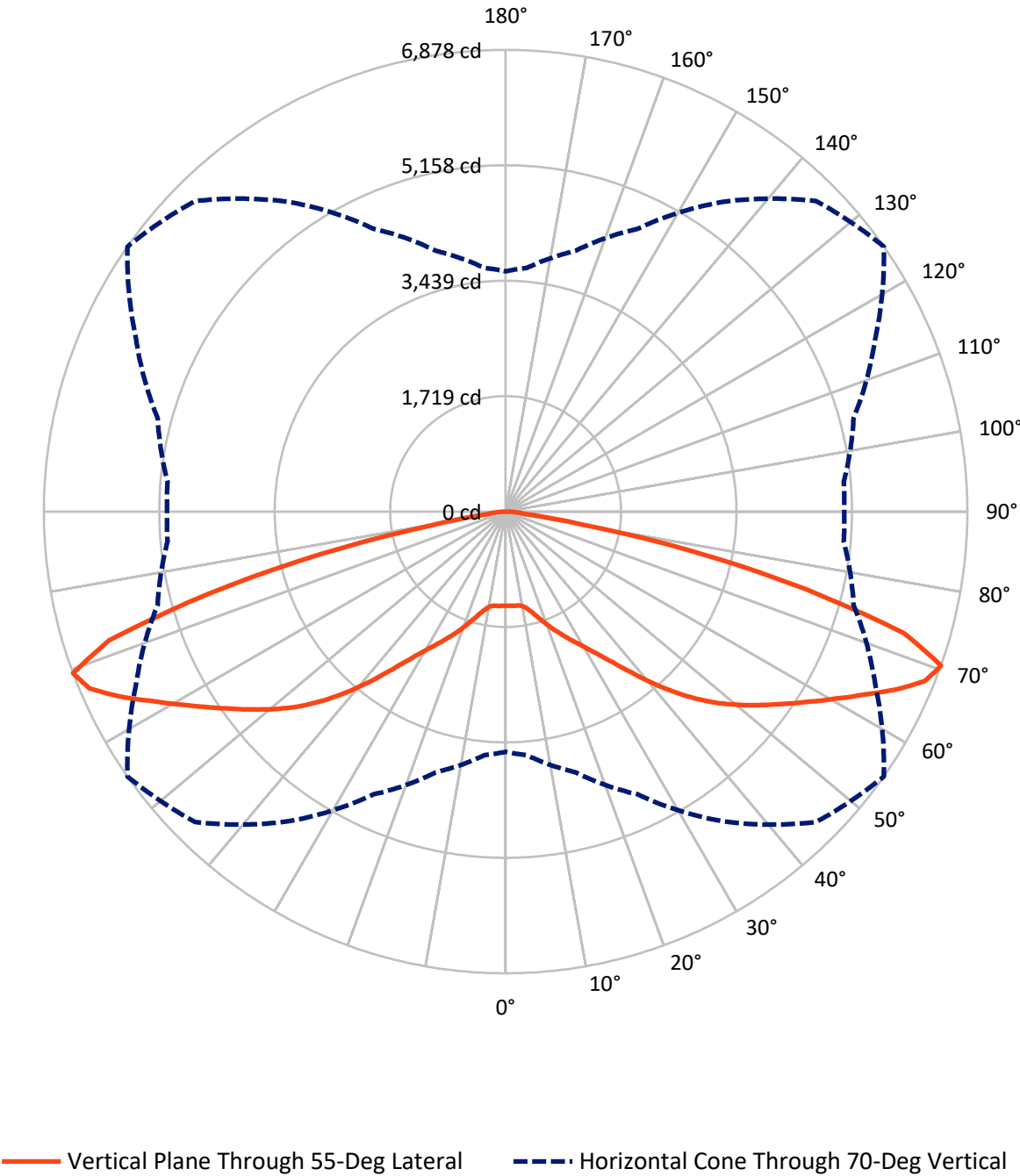
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	10070.0	0.0	10070.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10070.0	0.0	10070.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20140.0	0.0	20140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	0.7
10°-20°	461.3	2.3
20°-30°	958.5	4.8
30°-40°	1770.3	8.8
40°-50°	3110.0	15.4
50°-60°	4485.3	22.3
60°-70°	5489.6	27.3
70°-80°	3493.1	17.3
80°-90°	236.4	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°	20140.0	100.0
0°-180°	20140.0	100.0

Coefficient of Utilization



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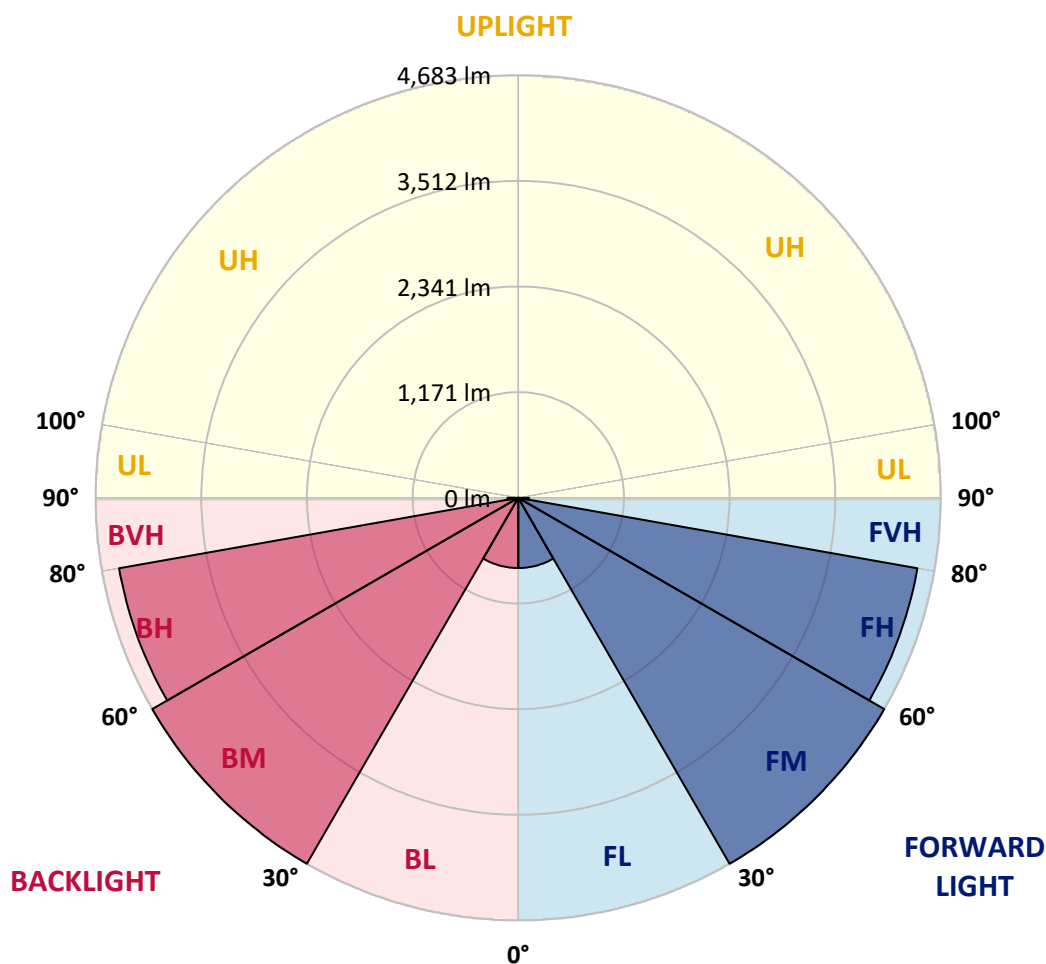
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.7	3.9			
FM	(30°-60°)	4682.8	23.3			
FH	(60°-80°)	4491.4	22.3			G2/5000
FVH	(80°-90°)	118.2	0.6			G2/225
BL	(0°-30°)	777.7	3.9	B2/1000		
BM	(30°-60°)	4682.8	23.3	B3/5000		
BH	(60°-80°)	4491.4	22.3	B4/5000		G2/5000
BVH	(80°-90°)	118.2	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°	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9	1403.9
2.5°	1422.7	1422.7	1418.9	1418.9	1411.4	1407.7	1403.9	1403.9	1400.2	1400.2	1396.5
5°	1430.2	1430.2	1430.2	1426.4	1422.7	1418.9	1411.4	1403.9	1400.2	1396.5	1392.7
7.5°	1433.9	1433.9	1430.2	1430.2	1426.4	1422.7	1411.4	1400.2	1396.5	1392.7	1392.7
10°	1463.8	1460.1	1456.4	1448.9	1448.9	1448.9	1433.9	1422.7	1418.9	1418.9	1418.9
12.5°	1535.0	1531.2	1523.8	1512.5	1512.5	1516.3	1493.8	1478.8	1478.8	1475.1	1475.1
15°	1639.8	1636.1	1628.6	1609.9	1606.1	1613.6	1579.9	1564.9	1564.9	1564.9	1561.2
17.5°	1755.9	1748.4	1737.2	1722.2	1722.2	1722.2	1688.5	1669.8	1658.5	1658.5	1654.8
20°	1853.2	1849.5	1849.5	1845.7	1857.0	1857.0	1812.0	1782.1	1755.9	1740.9	1737.2
22.5°	1939.3	1935.6	1943.1	1958.0	1980.5	1988.0	1935.6	1890.6	1849.5	1819.5	1812.0
25°	2055.4	2051.6	2047.9	2070.4	2107.8	2119.0	2062.9	2006.7	1965.5	1950.6	1943.1
27.5°	2178.9	2182.7	2186.4	2208.9	2238.8	2257.5	2201.4	2149.0	2115.3	2092.8	2085.3
30°	2317.5	2324.9	2336.2	2369.9	2392.3	2399.8	2351.1	2313.7	2283.8	2265.0	2253.8
32.5°	2493.4	2508.4	2523.4	2553.3	2564.5	2557.1	2534.6	2508.4	2485.9	2459.7	2456.0
35°	2755.5	2770.5	2766.7	2777.9	2781.7	2774.2	2763.0	2748.0	2736.8	2703.1	2699.3
37.5°	3084.9	3099.9	3077.5	3066.2	3040.0	3043.8	3040.0	3051.2	3055.0	3021.3	3017.6
40°	3418.1	3433.1	3403.2	3373.2	3347.0	3335.8	3354.5	3391.9	3391.9	3369.5	3369.5
42.5°	3773.8	3785.0	3736.4	3698.9	3665.2	3657.8	3669.0	3713.9	3725.1	3721.4	3721.4
45°	4129.5	4122.0	4058.3	4020.9	3991.0	3972.2	3976.0	4009.7	4032.1	4043.4	4043.4
47.5°	4402.8	4391.5	4339.1	4309.2	4290.5	4264.3	4264.3	4283.0	4294.2	4298.0	4298.0
50°	4619.9	4608.7	4556.3	4552.5	4552.5	4541.3	4530.1	4526.3	4518.8	4522.6	4522.6
52.5°	4807.1	4792.1	4754.7	4762.2	4795.9	4803.4	4788.4	4758.4	4728.5	4717.3	4721.0
55°	5009.3	4986.8	4956.9	4979.3	5046.7	5076.7	5054.2	4994.3	4941.9	4908.2	4908.2
57.5°	5170.3	5144.1	5144.1	5207.7	5331.3	5391.2	5342.5	5230.2	5140.3	5102.9	5106.6
60°	5058.0	5035.5	5125.3	5406.1	5638.3	5739.3	5657.0	5458.5	5312.5	5267.6	5275.1
62.5°	4837.1	4822.1	4934.4	5368.7	5915.3	6125.0	6001.4	5716.9	5499.7	5447.3	5447.3
65°	4511.4	4507.6	4664.9	5200.2	5978.9	6495.6	6390.8	5997.7	5716.9	5645.7	5660.7
67.5°	4174.4	4174.4	4316.7	4911.9	5904.1	6652.8	6735.2	6252.2	5821.7	5645.7	5649.5
70°	3579.1	3642.8	4020.9	4646.1	5630.8	6540.5	6877.5	6072.5	5365.0	5054.2	5043.0
72.5°	2358.6	2441.0	3193.5	4181.9	5361.2	6132.4	6207.3	5335.0	4455.2	4092.0	4073.3
75°	1422.7	1493.8	2070.4	3264.6	4713.5	4938.2	4608.7	4181.9	3328.3	3043.8	3043.8
77.5°	419.3	468.0	954.7	2070.4	3260.9	3245.9	2841.6	2463.5	1969.3	1673.5	1696.0
80°	247.1	254.6	310.7	943.5	1351.5	1422.7	1097.0	685.1	685.1	509.2	494.2
82.5°	190.9	190.9	198.4	235.9	325.7	363.2	277.0	235.9	269.6	228.4	217.1
85°	134.8	134.8	134.8	138.5	142.3	146.0	153.5	157.2	172.2	142.3	134.8
87.5°	41.2	44.9	48.7	56.2	67.4	71.1	74.9	67.4	67.4	63.6	59.9
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)