

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: P835918

Luminaire Tested: **ARCH3-110-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835918
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: ARCH3-110-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17576 lumens
Efficiency: N/A
Efficacy: 157.1 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

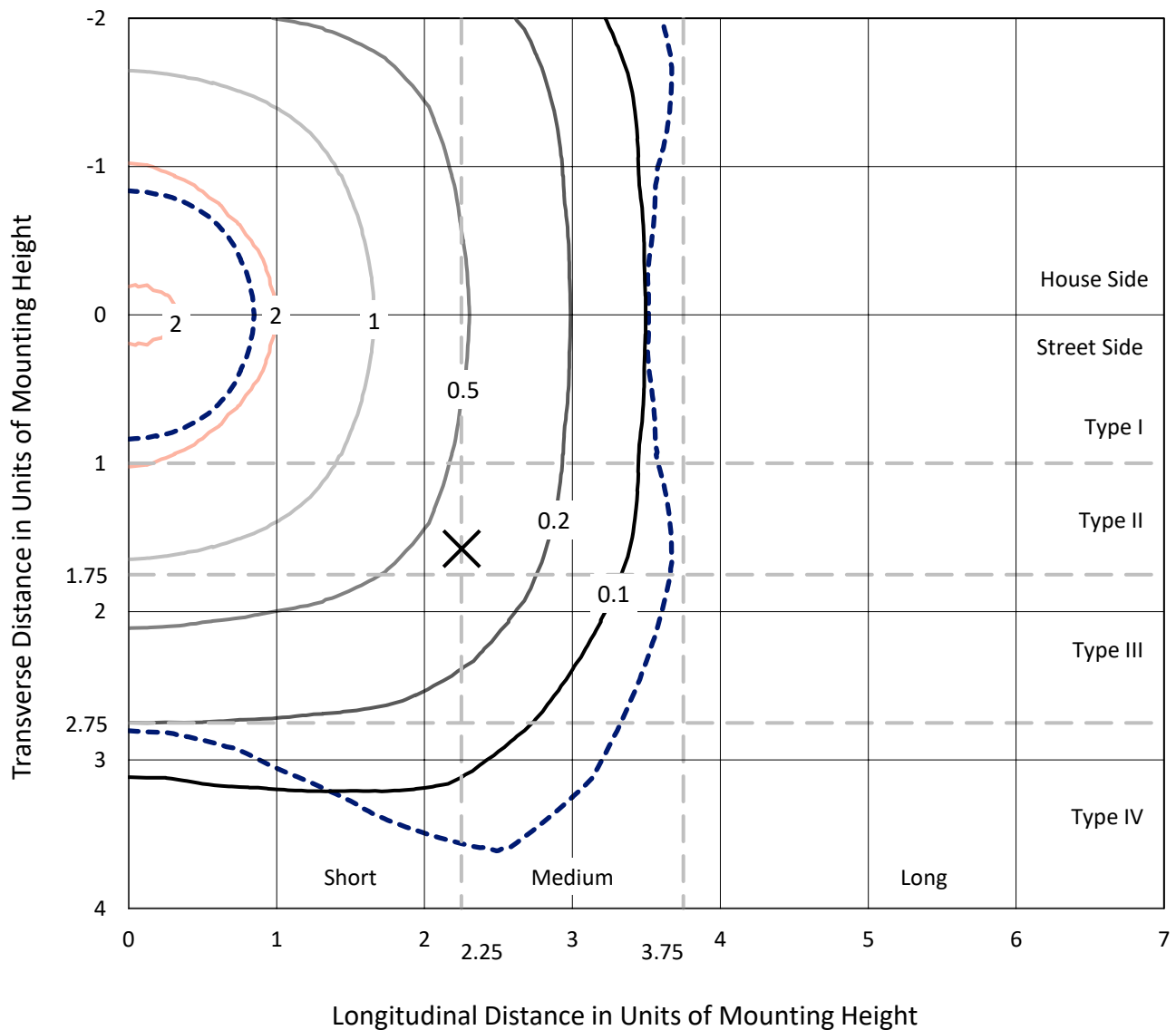
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

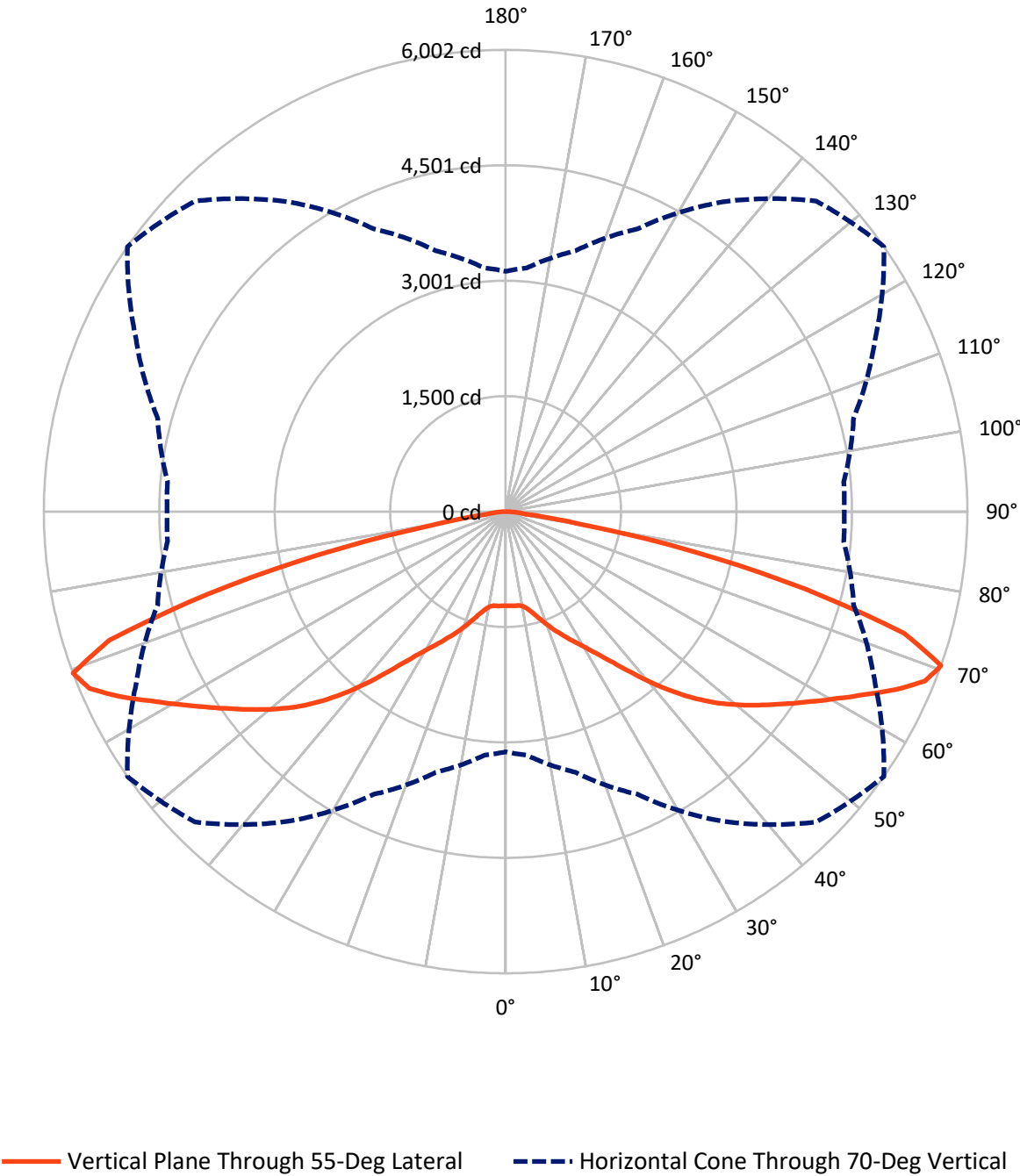
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	8788.0	0.0	8788.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8788.0	0.0	8788.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17576.0	0.0	17576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	0.7
10°-20°	402.6	2.3
20°-30°	836.5	4.8
30°-40°	1544.9	8.8
40°-50°	2714.1	15.4
50°-60°	3914.3	22.3
60°-70°	4790.7	27.3
70°-80°	3048.4	17.3
80°-90°	206.3	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°	17576.0	100.0
0°-180°	17576.0	100.0

Coefficient of Utilization



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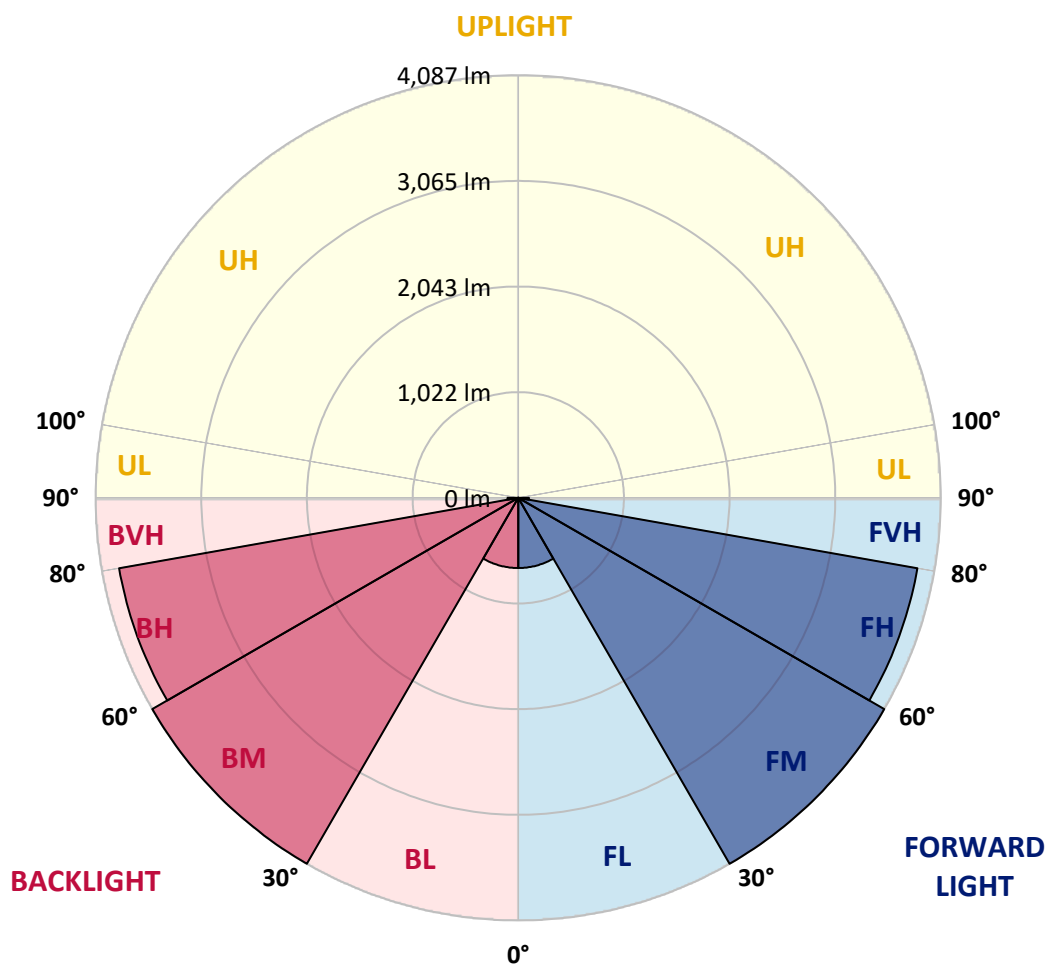
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	678.7	3.9			
FM	(30°-60°)	4086.6	23.3			
FH	(60°-80°)	3919.6	22.3			G2/5000
FVH	(80°-90°)	103.1	0.6			G2/225
BL	(0°-30°)	678.7	3.9	B2/1000		
BM	(30°-60°)	4086.6	23.3	B3/5000		
BH	(60°-80°)	3919.6	22.3	B4/5000		G2/5000
BVH	(80°-90°)	103.1	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°	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2
2.5°	1241.5	1241.5	1238.3	1238.3	1231.7	1228.5	1225.2	1225.2	1221.9	1221.9	1218.7
5°	1248.1	1248.1	1248.1	1244.8	1241.5	1238.3	1231.7	1225.2	1221.9	1218.7	1215.4
7.5°	1251.4	1251.4	1248.1	1248.1	1244.8	1241.5	1231.7	1221.9	1218.7	1215.4	1215.4
10°	1277.5	1274.2	1271.0	1264.4	1264.4	1264.4	1251.4	1241.5	1238.3	1238.3	1238.3
12.5°	1339.6	1336.3	1329.8	1320.0	1320.0	1323.2	1303.6	1290.6	1290.6	1287.3	1287.3
15°	1431.0	1427.8	1421.2	1404.9	1401.6	1408.2	1378.8	1365.7	1365.7	1365.7	1362.4
17.5°	1532.3	1525.8	1516.0	1502.9	1502.9	1502.9	1473.5	1457.2	1447.4	1447.4	1444.1
20°	1617.3	1614.0	1614.0	1610.7	1620.5	1620.5	1581.3	1555.2	1532.3	1519.3	1516.0
22.5°	1692.4	1689.2	1695.7	1708.8	1728.4	1734.9	1689.2	1650.0	1614.0	1587.9	1581.3
25°	1793.7	1790.4	1787.2	1806.8	1839.5	1849.3	1800.2	1751.2	1715.3	1702.2	1695.7
27.5°	1901.5	1904.8	1908.1	1927.7	1953.8	1970.1	1921.1	1875.4	1846.0	1826.4	1819.8
30°	2022.4	2029.0	2038.8	2068.2	2087.8	2094.3	2051.8	2019.2	1993.0	1976.7	1966.9
32.5°	2176.0	2189.0	2202.1	2228.3	2238.1	2231.5	2211.9	2189.0	2169.4	2146.6	2143.3
35°	2404.7	2417.8	2414.5	2424.3	2427.6	2421.0	2411.2	2398.2	2388.3	2358.9	2355.7
37.5°	2692.2	2705.3	2685.7	2675.9	2653.0	2656.3	2653.0	2662.8	2666.1	2636.7	2633.4
40°	2983.0	2996.1	2969.9	2943.8	2920.9	2911.1	2927.4	2960.1	2960.1	2940.5	2940.5
42.5°	3293.4	3303.2	3260.7	3228.0	3198.6	3192.1	3201.9	3241.1	3250.9	3247.6	3247.6
45°	3603.8	3597.2	3541.7	3509.0	3482.9	3466.5	3469.8	3499.2	3518.8	3528.6	3528.6
47.5°	3842.3	3832.5	3786.7	3760.6	3744.3	3721.4	3721.4	3737.7	3747.5	3750.8	3750.8
50°	4031.8	4022.0	3976.2	3973.0	3973.0	3963.2	3953.4	3950.1	3943.6	3946.8	3946.8
52.5°	4195.1	4182.1	4149.4	4155.9	4185.3	4191.9	4178.8	4152.7	4126.5	4116.7	4120.0
55°	4371.6	4352.0	4325.8	4345.4	4404.2	4430.4	4410.8	4358.5	4312.7	4283.3	4283.3
57.5°	4512.1	4489.2	4489.2	4544.7	4652.5	4704.8	4662.3	4564.3	4485.9	4453.2	4456.5
60°	4414.0	4394.4	4472.8	4717.9	4920.5	5008.7	4936.8	4763.6	4636.2	4597.0	4603.5
62.5°	4221.3	4208.2	4306.2	4685.2	5162.2	5345.2	5237.4	4989.1	4799.6	4753.8	4753.8
65°	3937.0	3933.8	4071.0	4538.2	5217.8	5668.7	5577.2	5234.1	4989.1	4927.0	4940.1
67.5°	3643.0	3643.0	3767.1	4286.6	5152.4	5805.9	5877.8	5456.3	5080.5	4927.0	4930.3
70°	3123.5	3179.0	3509.0	4054.6	4913.9	5707.9	6001.9	5299.5	4681.9	4410.8	4401.0
72.5°	2058.4	2130.2	2787.0	3649.5	4678.7	5351.7	5417.1	4655.8	3888.0	3571.1	3554.8
75°	1241.5	1303.6	1806.8	2849.0	4113.4	4309.5	4022.0	3649.5	2904.6	2656.3	2656.3
77.5°	365.9	408.4	833.1	1806.8	2845.8	2832.7	2479.8	2149.8	1718.6	1460.5	1480.1
80°	215.6	222.2	271.2	823.3	1179.5	1241.5	957.3	597.9	597.9	444.3	431.3
82.5°	166.6	166.6	173.2	205.8	284.2	316.9	241.8	205.8	235.2	199.3	189.5
85°	117.6	117.6	117.6	120.9	124.2	127.4	134.0	137.2	150.3	124.2	117.6
87.5°	35.9	39.2	42.5	49.0	58.8	62.1	65.3	58.8	58.8	55.5	52.3
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)