

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: P836026

Luminaire Tested: **ARCH3-130-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836026
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: ARCH3-130-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18403 lumens
Efficiency: N/A
Efficacy: 138.8 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): 132.6
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

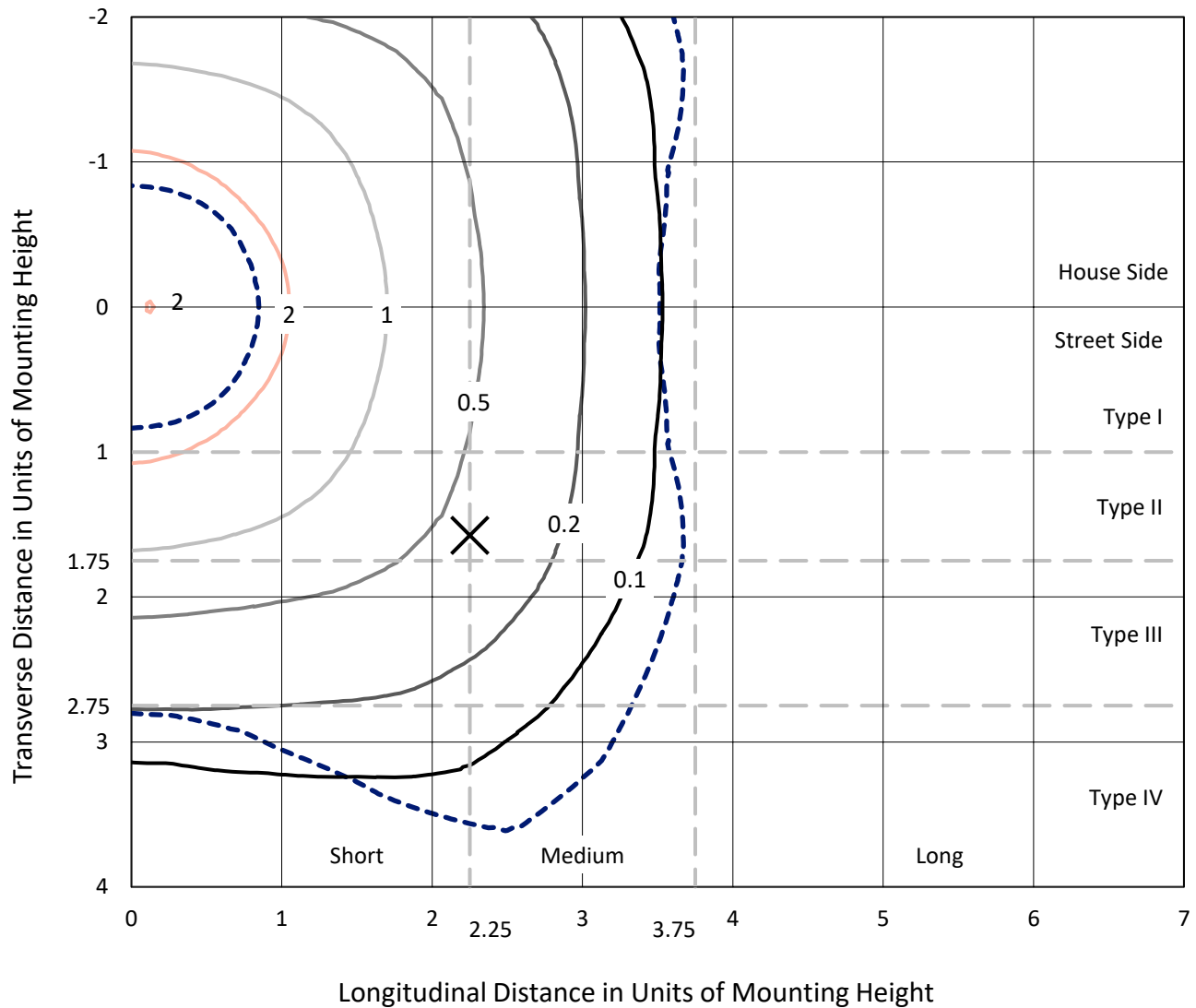


REPORT NUMBER: P836026

CATALOG NUMBER: ARCH3-130-727-U-5WQ

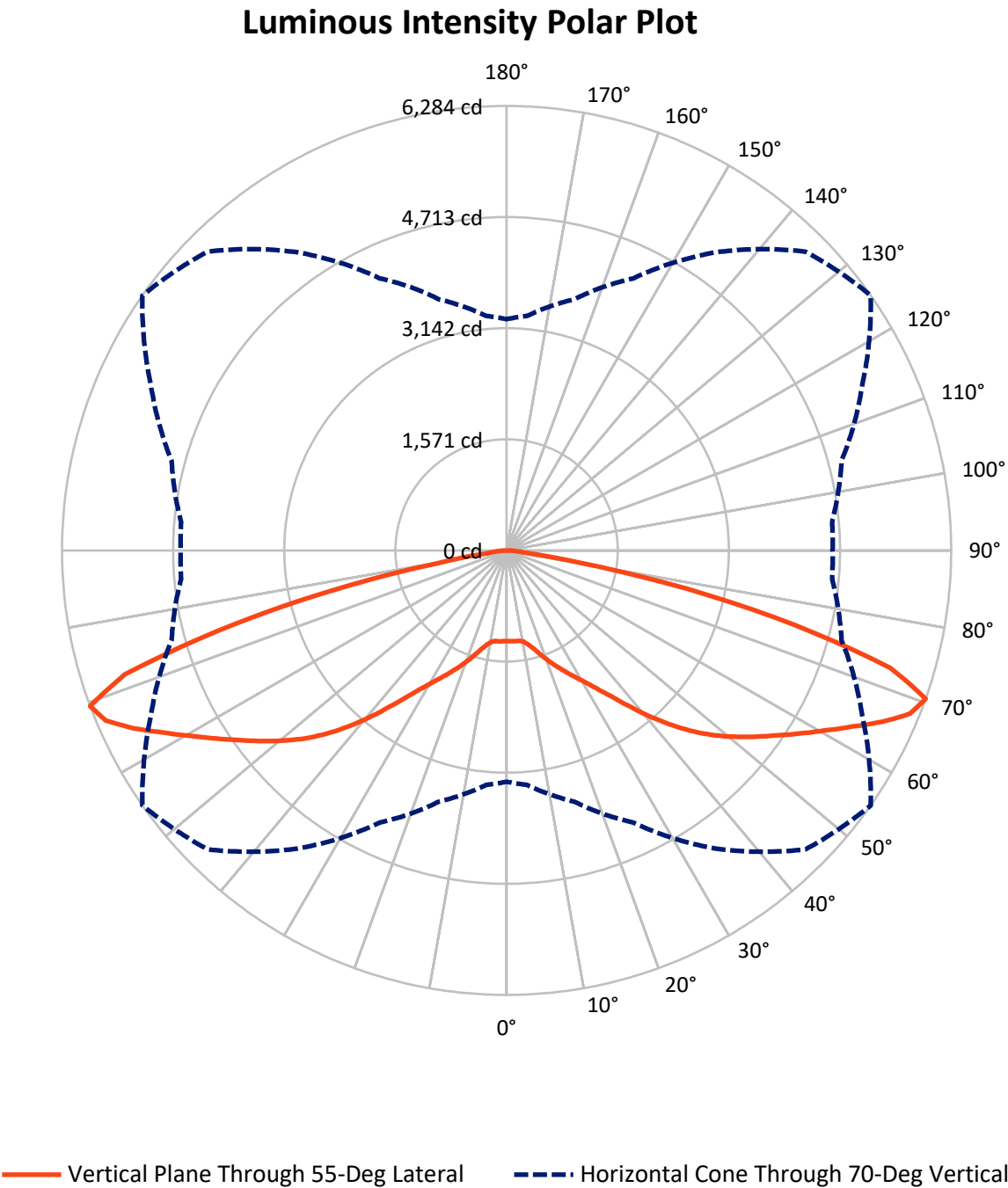
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type V - Medium - N/A

REPORT NUMBER: P836026
CATALOG NUMBER: ARCH3-130-727-U-5WQ



REPORT NUMBER: P836026

CATALOG NUMBER: ARCH3-130-727-U-5WQ

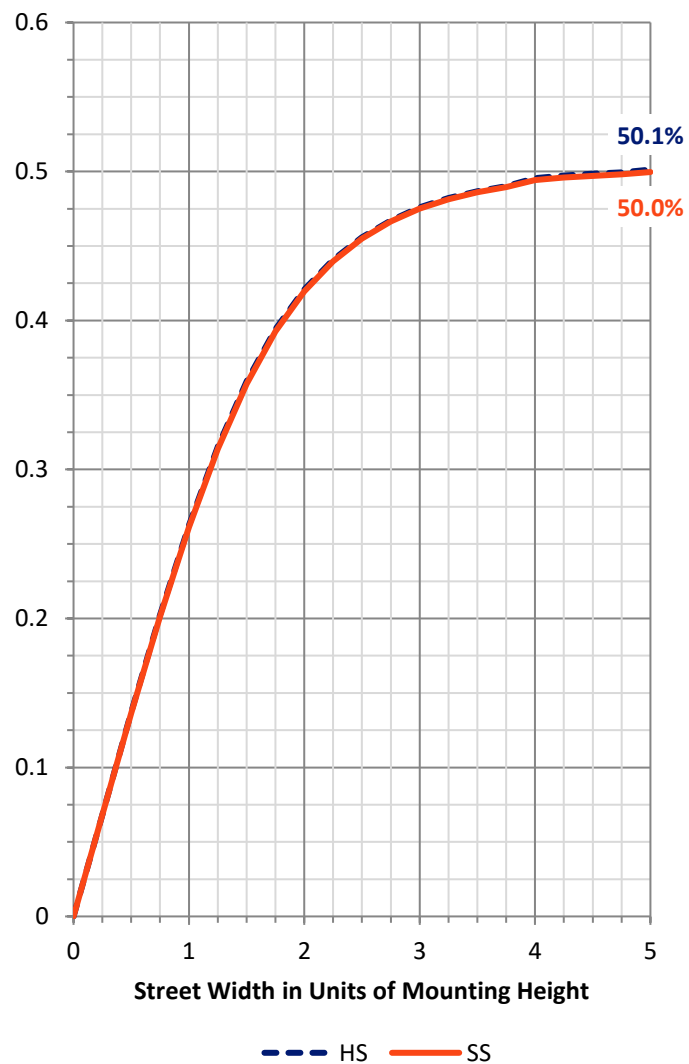
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9201.5	0.0	9201.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9201.5	0.0	9201.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18403.0	0.0	18403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	0.7
10°-20°	421.5	2.3
20°-30°	875.8	4.8
30°-40°	1617.6	8.8
40°-50°	2841.8	15.4
50°-60°	4098.5	22.3
60°-70°	5016.1	27.3
70°-80°	3191.9	17.3
80°-90°	216.0	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°	18403.0	100.0
0°-180°	18403.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836026

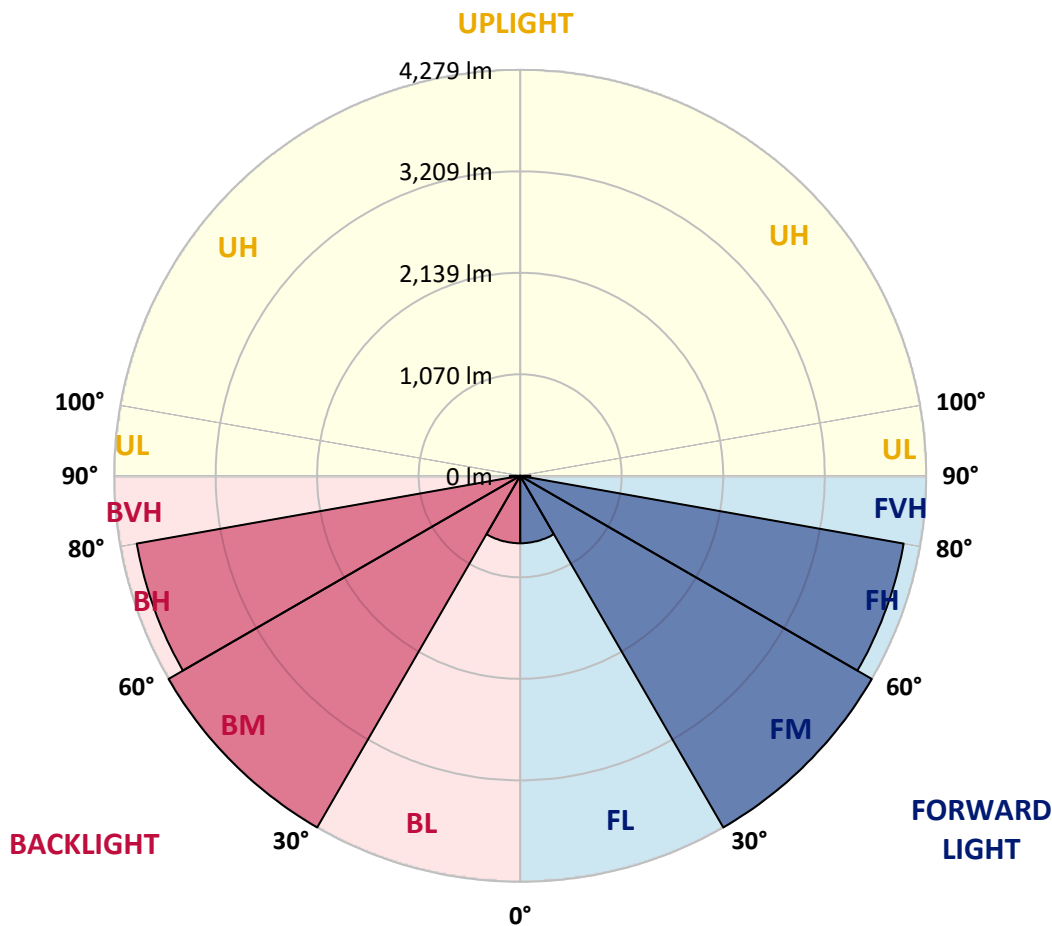
CATALOG NUMBER: ARCH3-130-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.6	3.9			
FM	(30°-60°)	4278.9	23.3			
FH	(60°-80°)	4104.0	22.3			G2/5000
FVH	(80°-90°)	108.0	0.6			G2/225
BL	(0°-30°)	710.6	3.9	B2/1000		
BM	(30°-60°)	4278.9	23.3	B3/5000		
BH	(60°-80°)	4104.0	22.3	B4/5000		G2/5000
BVH	(80°-90°)	108.0	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



REPORT NUMBER: P836026

CATALOG NUMBER: ARCH3-130-727-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9
2.5°	1300.0	1300.0	1296.5	1296.5	1289.7	1286.3	1282.9	1282.9	1279.4	1279.4	1276.0
5°	1306.8	1306.8	1306.8	1303.4	1300.0	1296.5	1289.7	1282.9	1279.4	1276.0	1272.6
7.5°	1310.2	1310.2	1306.8	1306.8	1303.4	1300.0	1289.7	1279.4	1276.0	1272.6	1272.6
10°	1337.6	1334.2	1330.8	1323.9	1323.9	1323.9	1310.2	1300.0	1296.5	1296.5	1296.5
12.5°	1402.6	1399.2	1392.3	1382.1	1382.1	1385.5	1365.0	1351.3	1351.3	1347.9	1347.9
15°	1498.4	1495.0	1488.1	1471.0	1467.6	1474.4	1443.6	1430.0	1430.0	1430.0	1426.5
17.5°	1604.4	1597.6	1587.3	1573.6	1573.6	1573.6	1542.9	1525.8	1515.5	1515.5	1512.1
20°	1693.4	1690.0	1690.0	1686.5	1696.8	1696.8	1655.7	1628.4	1604.4	1590.7	1587.3
22.5°	1772.1	1768.6	1775.5	1789.2	1809.7	1816.5	1768.6	1727.6	1690.0	1662.6	1655.7
25°	1878.1	1874.7	1871.3	1891.8	1926.0	1936.3	1885.0	1833.6	1796.0	1782.3	1775.5
27.5°	1991.0	1994.4	1997.8	2018.4	2045.7	2062.8	2011.5	1963.6	1932.8	1912.3	1905.5
30°	2117.6	2124.4	2134.7	2165.5	2186.0	2192.8	2148.4	2114.2	2086.8	2069.7	2059.4
32.5°	2278.4	2292.0	2305.7	2333.1	2343.4	2336.5	2316.0	2292.0	2271.5	2247.6	2244.2
35°	2517.8	2531.5	2528.1	2538.4	2541.8	2534.9	2524.7	2511.0	2500.7	2469.9	2466.5
37.5°	2818.9	2832.6	2812.0	2801.8	2777.8	2781.2	2777.8	2788.1	2791.5	2760.7	2757.3
40°	3123.3	3137.0	3109.7	3082.3	3058.3	3048.1	3065.2	3099.4	3099.4	3078.9	3078.9
42.5°	3448.3	3458.6	3414.1	3379.9	3349.1	3342.3	3352.5	3393.6	3403.9	3400.4	3400.4
45°	3773.3	3766.5	3708.3	3674.1	3646.8	3629.6	3633.1	3663.9	3684.4	3694.6	3694.6
47.5°	4023.1	4012.8	3964.9	3937.5	3920.4	3896.5	3896.5	3913.6	3923.8	3927.3	3927.3
50°	4221.5	4211.2	4163.3	4159.9	4159.9	4149.6	4139.4	4135.9	4129.1	4132.5	4132.5
52.5°	4392.5	4378.8	4344.6	4351.5	4382.3	4389.1	4375.4	4348.0	4320.7	4310.4	4313.8
55°	4577.3	4556.7	4529.4	4549.9	4611.5	4638.8	4618.3	4563.6	4515.7	4484.9	4484.9
57.5°	4724.4	4700.4	4700.4	4758.6	4871.5	4926.2	4881.7	4779.1	4697.0	4662.8	4666.2
60°	4621.7	4601.2	4683.3	4939.9	5152.0	5244.3	5169.1	4987.8	4854.4	4813.3	4820.1
62.5°	4419.9	4406.2	4508.8	4905.7	5405.1	5596.7	5483.8	5223.8	5025.4	4977.5	4977.5
65°	4122.3	4118.8	4262.5	4751.7	5463.3	5935.4	5839.6	5480.4	5223.8	5158.8	5172.5
67.5°	3814.4	3814.4	3944.4	4488.3	5394.9	6079.1	6154.3	5713.0	5319.6	5158.8	5162.2
70°	3270.4	3328.6	3674.1	4245.4	5145.1	5976.4	6284.3	5548.8	4902.2	4618.3	4608.0
72.5°	2155.2	2230.5	2918.1	3821.2	4898.8	5603.5	5672.0	4874.9	4071.0	3739.1	3722.0
75°	1300.0	1365.0	1891.8	2983.1	4307.0	4512.3	4211.2	3821.2	3041.2	2781.2	2781.2
77.5°	383.1	427.6	872.3	1891.8	2979.7	2966.0	2596.5	2251.0	1799.4	1529.2	1549.7
80°	225.8	232.6	283.9	862.1	1235.0	1300.0	1002.3	626.0	626.0	465.3	451.6
82.5°	174.5	174.5	181.3	215.5	297.6	331.8	253.2	215.5	246.3	208.7	198.4
85°	123.2	123.2	123.2	126.6	130.0	133.4	140.3	143.7	157.4	130.0	123.2
87.5°	37.6	41.1	44.5	51.3	61.6	65.0	68.4	61.6	61.6	58.2	54.7
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)