

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: P836377

Luminaire Tested: **ARCH3-180-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836377
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: ARCH3-180-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20627 lumens
Efficiency: N/A
Efficacy: 114.3 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): 180.5
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



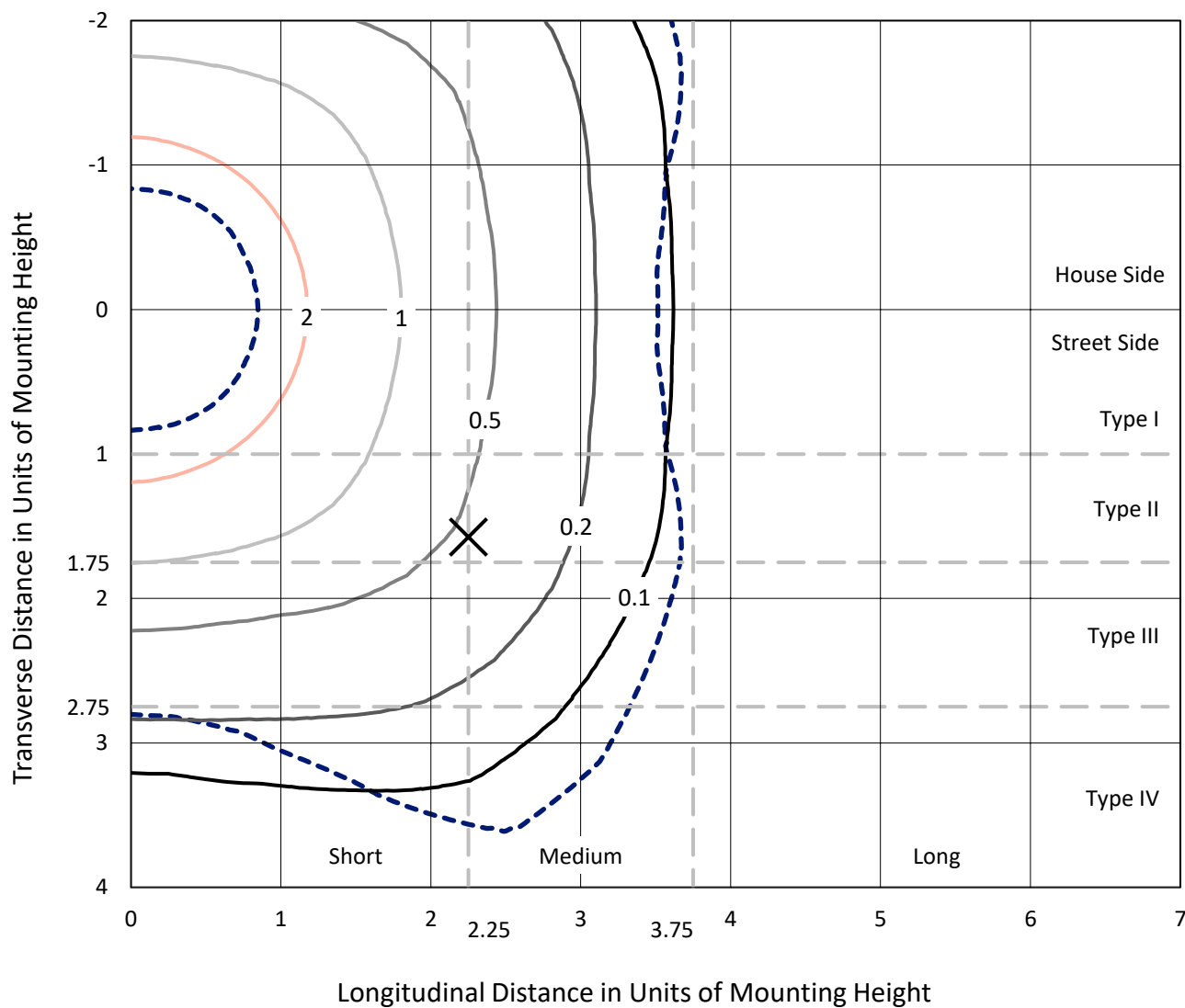
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Iso-Footcandle Lines of Horizontal Illumination

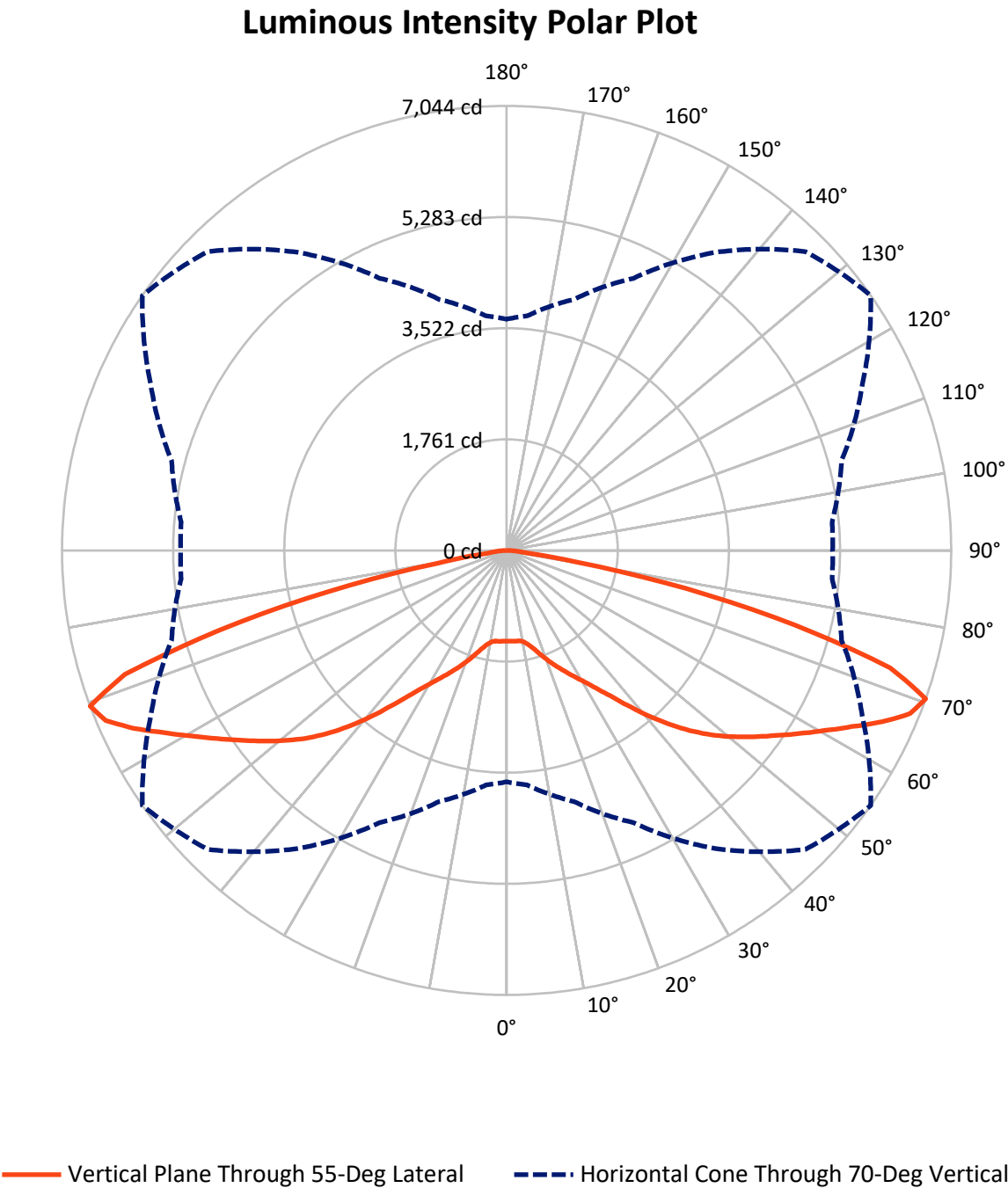
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type V - Medium - N/A

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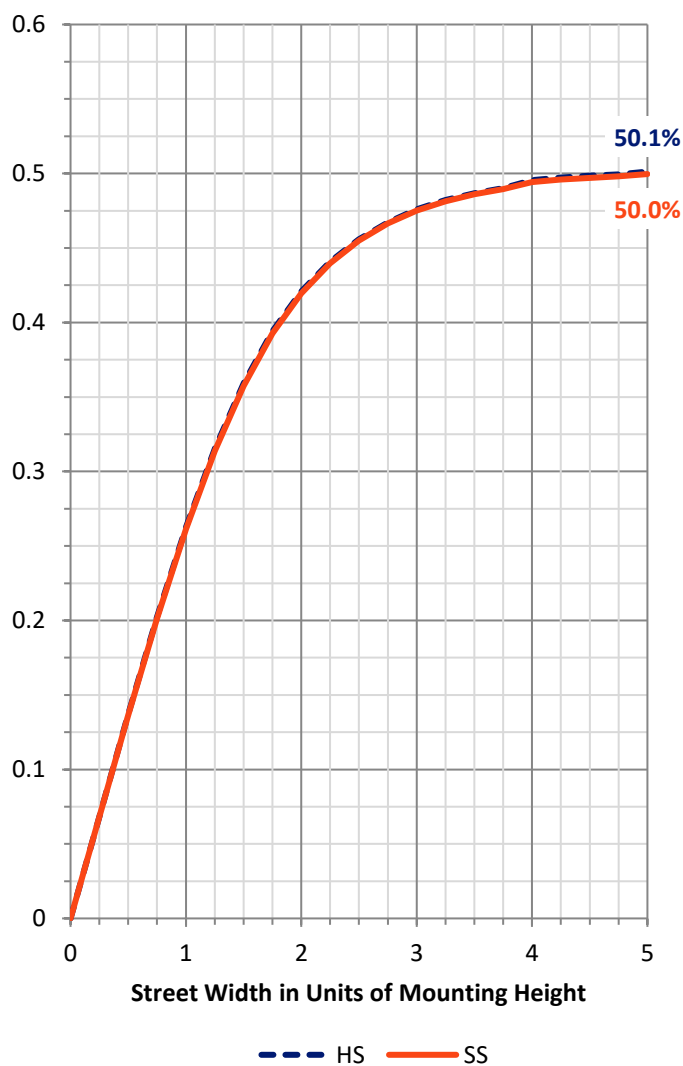
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10313.5	0.0	10313.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10313.5	0.0	10313.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20627.0	0.0	20627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	0.7
10°-20°	472.4	2.3
20°-30°	981.7	4.8
30°-40°	1813.1	8.8
40°-50°	3185.2	15.4
50°-60°	4593.8	22.3
60°-70°	5622.3	27.3
70°-80°	3577.6	17.3
80°-90°	242.1	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°	20627.0	100.0
0°-180°	20627.0	100.0

Coefficient of Utilization



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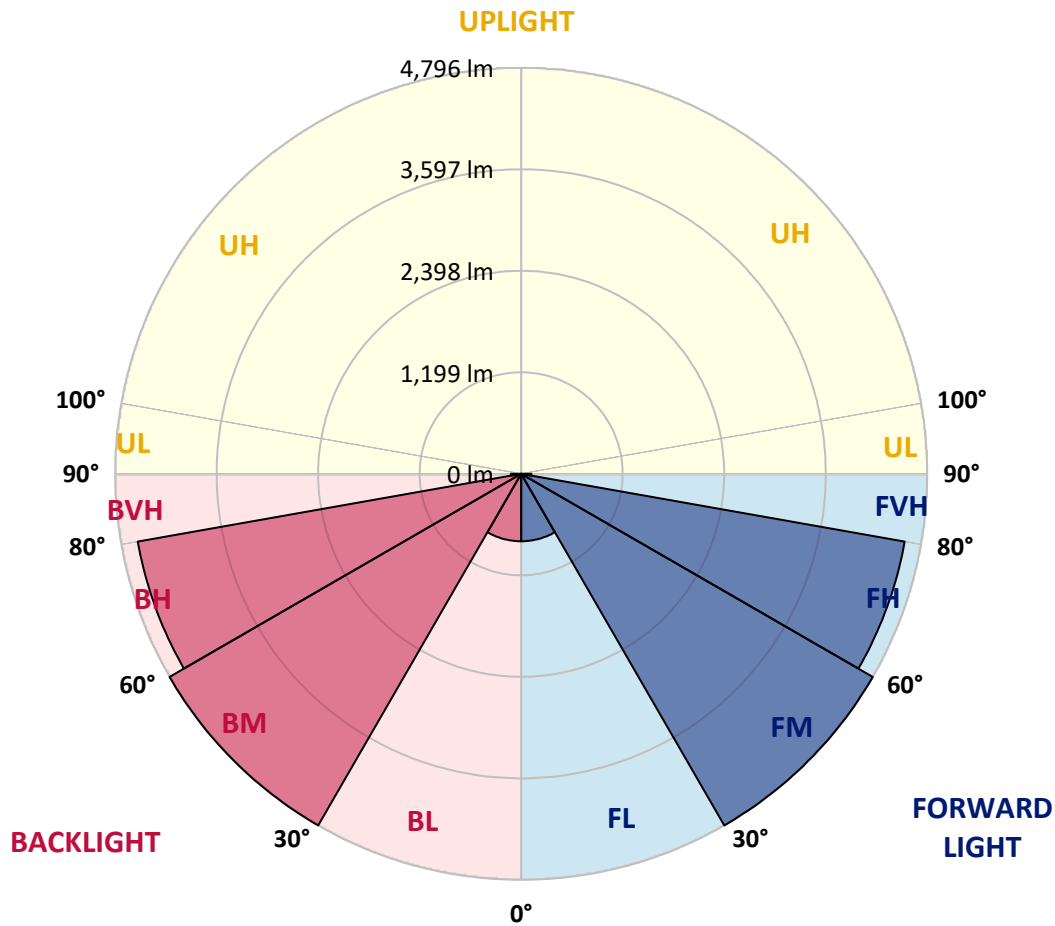
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	796.5	3.9			
FM	(30°-60°)	4796.0	23.3			
FH	(60°-80°)	4600.0	22.3			G2/5000
FVH	(80°-90°)	121.0	0.6			G2/225
BL	(0°-30°)	796.5	3.9	B2/1000		
BM	(30°-60°)	4796.0	23.3	B3/5000		
BH	(60°-80°)	4600.0	22.3	B4/5000		G2/5000
BVH	(80°-90°)	121.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9	1437.9
2.5°	1457.1	1457.1	1453.2	1453.2	1445.6	1441.7	1437.9	1437.9	1434.1	1434.1	1430.2
5°	1464.7	1464.7	1464.7	1460.9	1457.1	1453.2	1445.6	1437.9	1434.1	1430.2	1426.4
7.5°	1468.6	1468.6	1464.7	1464.7	1460.9	1457.1	1445.6	1434.1	1430.2	1426.4	1426.4
10°	1499.2	1495.4	1491.6	1483.9	1483.9	1483.9	1468.6	1457.1	1453.2	1453.2	1453.2
12.5°	1572.1	1568.3	1560.6	1549.1	1549.1	1552.9	1529.9	1514.6	1514.6	1510.7	1510.7
15°	1679.5	1675.6	1668.0	1648.8	1645.0	1652.6	1618.1	1602.8	1602.8	1602.8	1598.9
17.5°	1798.3	1790.7	1779.2	1763.8	1763.8	1763.8	1729.3	1710.1	1698.6	1698.6	1694.8
20°	1898.0	1894.2	1894.2	1890.4	1901.9	1901.9	1855.8	1825.2	1798.3	1783.0	1779.2
22.5°	1986.2	1982.4	1990.0	2005.4	2028.4	2036.1	1982.4	1936.4	1894.2	1863.5	1855.8
25°	2105.1	2101.2	2097.4	2120.4	2158.8	2170.3	2112.7	2055.2	2013.1	1997.7	1990.0
27.5°	2231.6	2235.4	2239.3	2262.3	2293.0	2312.1	2254.6	2200.9	2166.4	2143.4	2135.8
30°	2373.5	2381.2	2392.7	2427.2	2450.2	2457.8	2408.0	2369.7	2339.0	2319.8	2308.3
32.5°	2553.7	2569.0	2584.4	2615.1	2626.6	2618.9	2595.9	2569.0	2546.0	2519.2	2515.4
35°	2822.1	2837.4	2833.6	2845.1	2849.0	2841.3	2829.8	2814.4	2802.9	2768.4	2764.6
37.5°	3159.5	3174.9	3151.9	3140.4	3113.5	3117.4	3113.5	3125.0	3128.9	3094.4	3090.5
40°	3500.8	3516.1	3485.5	3454.8	3427.9	3416.4	3435.6	3474.0	3474.0	3451.0	3451.0
42.5°	3865.1	3876.6	3826.7	3788.4	3753.9	3746.2	3757.7	3803.7	3815.2	3811.4	3811.4
45°	4229.3	4221.7	4156.5	4118.1	4087.5	4068.3	4072.1	4106.6	4129.6	4141.1	4141.1
47.5°	4509.2	4497.7	4444.1	4413.4	4394.2	4367.4	4367.4	4386.5	4398.0	4401.9	4401.9
50°	4731.6	4720.1	4666.5	4662.6	4662.6	4651.1	4639.6	4635.8	4628.1	4631.9	4631.9
52.5°	4923.4	4908.0	4869.7	4877.3	4911.9	4919.5	4904.2	4873.5	4842.8	4831.3	4835.2
55°	5130.4	5107.4	5076.7	5099.7	5168.8	5199.4	5176.4	5115.1	5061.4	5026.9	5026.9
57.5°	5295.3	5268.5	5268.5	5333.6	5460.2	5521.5	5471.7	5356.6	5264.6	5226.3	5230.1
60°	5180.3	5157.3	5249.3	5536.9	5774.6	5878.1	5793.8	5590.5	5441.0	5395.0	5402.7
62.5°	4954.0	4938.7	5053.7	5498.5	6058.3	6273.1	6146.5	5855.1	5632.7	5579.0	5579.0
65°	4620.4	4616.6	4777.7	5326.0	6123.5	6652.7	6545.3	6142.7	5855.1	5782.3	5797.6
67.5°	4275.3	4275.3	4421.1	5030.7	6046.8	6813.7	6898.1	6403.4	5962.5	5782.3	5786.1
70°	3665.7	3730.9	4118.1	4758.5	5766.9	6698.7	7043.8	6219.4	5494.7	5176.4	5164.9
72.5°	2415.7	2500.0	3270.7	4283.0	5490.8	6280.7	6357.4	5464.0	4562.9	4191.0	4171.8
75°	1457.1	1529.9	2120.4	3343.6	4827.5	5057.6	4720.1	4283.0	3408.8	3117.4	3117.4
77.5°	429.5	479.3	977.8	2120.4	3339.8	3324.4	2910.3	2523.0	2016.9	1714.0	1737.0
80°	253.1	260.7	318.3	966.3	1384.2	1457.1	1123.5	701.7	701.7	521.5	506.1
82.5°	195.6	195.6	203.2	241.6	333.6	371.9	283.7	241.6	276.1	233.9	222.4
85°	138.0	138.0	138.0	141.9	145.7	149.5	157.2	161.0	176.4	145.7	138.0
87.5°	42.2	46.0	49.8	57.5	69.0	72.9	76.7	69.0	69.0	65.2	61.4
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)