

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: P836161

Luminaire Tested: **ARCH3-150-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836161
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: ARCH3-150-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18352 lumens
Efficiency: N/A
Efficacy: 121.8 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): 150.7
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

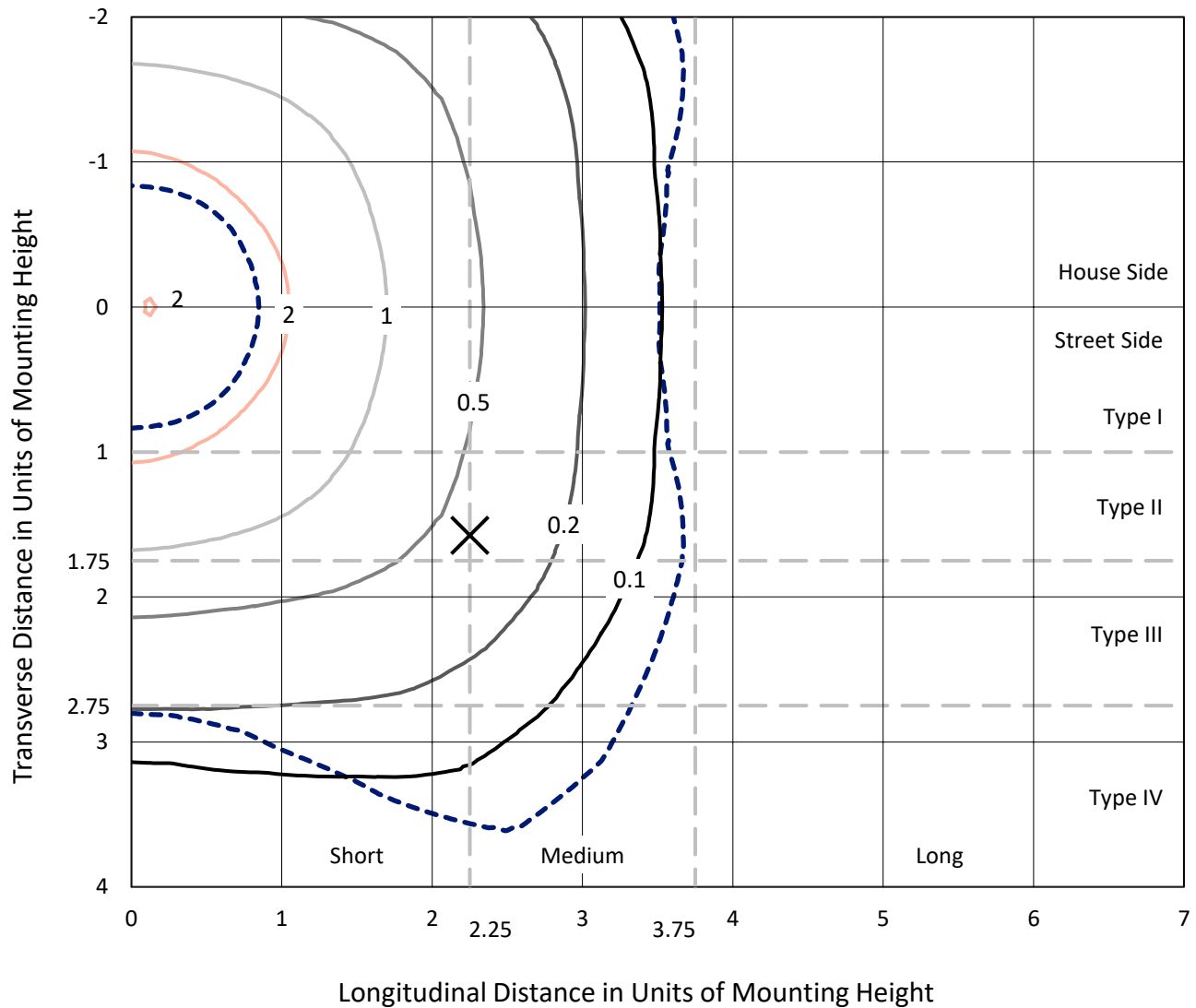


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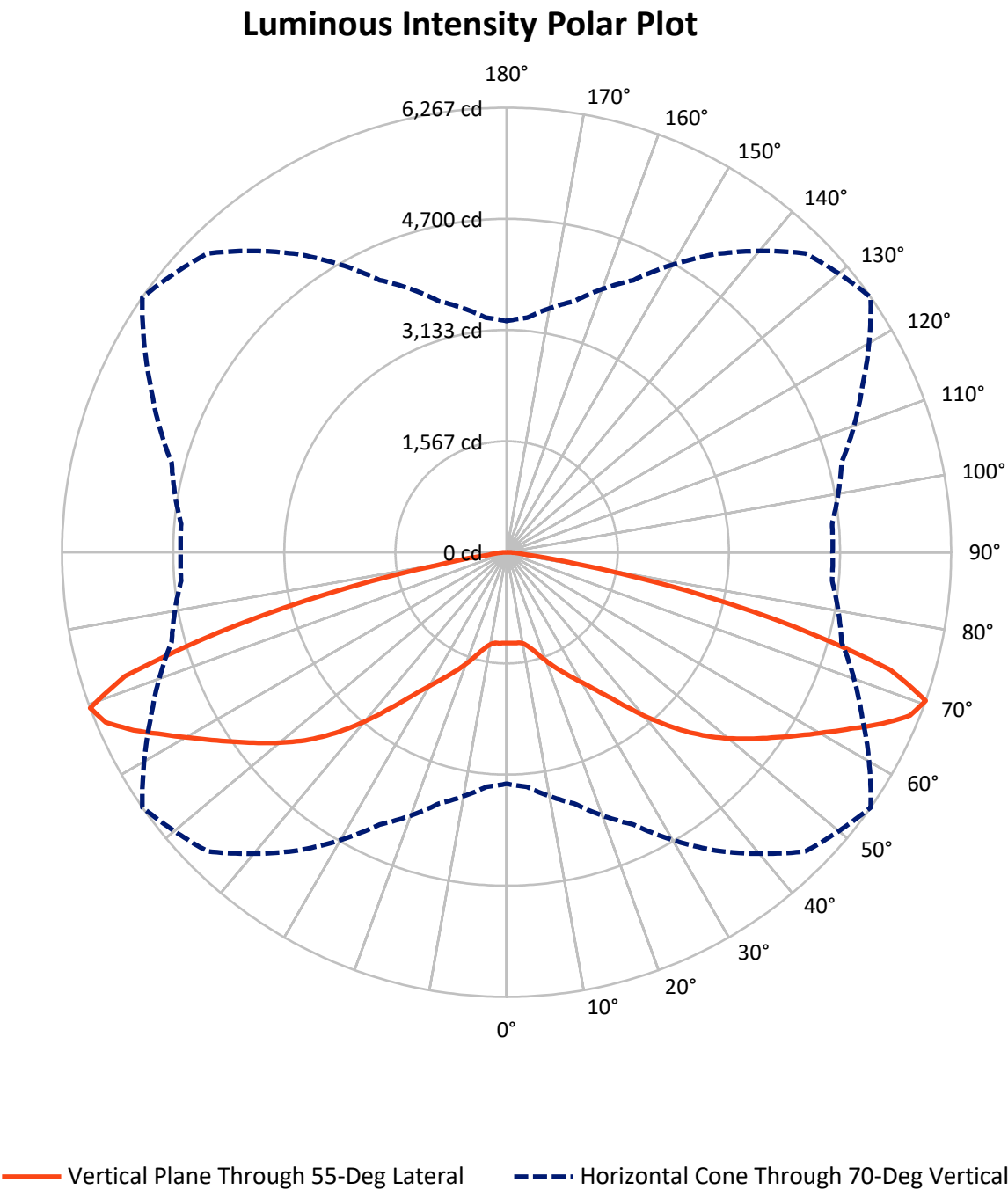
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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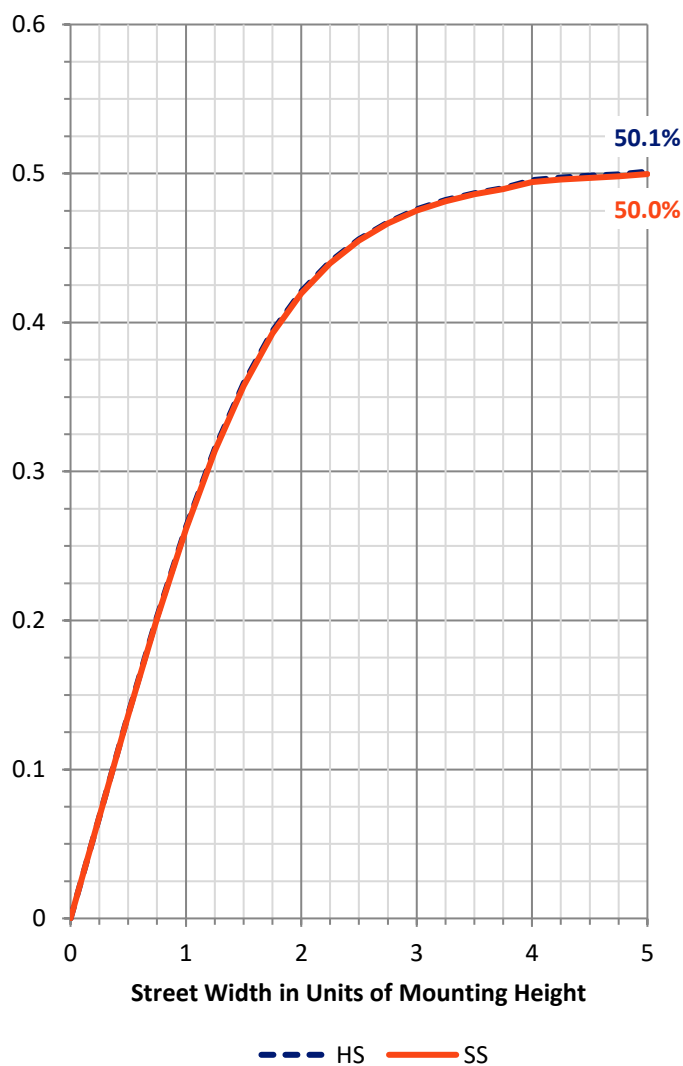
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9176.0	0.0	9176.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9176.0	0.0	9176.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18352.0	0.0	18352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	0.7
10°-20°	420.3	2.3
20°-30°	873.4	4.8
30°-40°	1613.1	8.8
40°-50°	2833.9	15.4
50°-60°	4087.2	22.3
60°-70°	5002.2	27.3
70°-80°	3183.0	17.3
80°-90°	215.4	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°	18352.0	100.0
0°-180°	18352.0	100.0

Coefficient of Utilization



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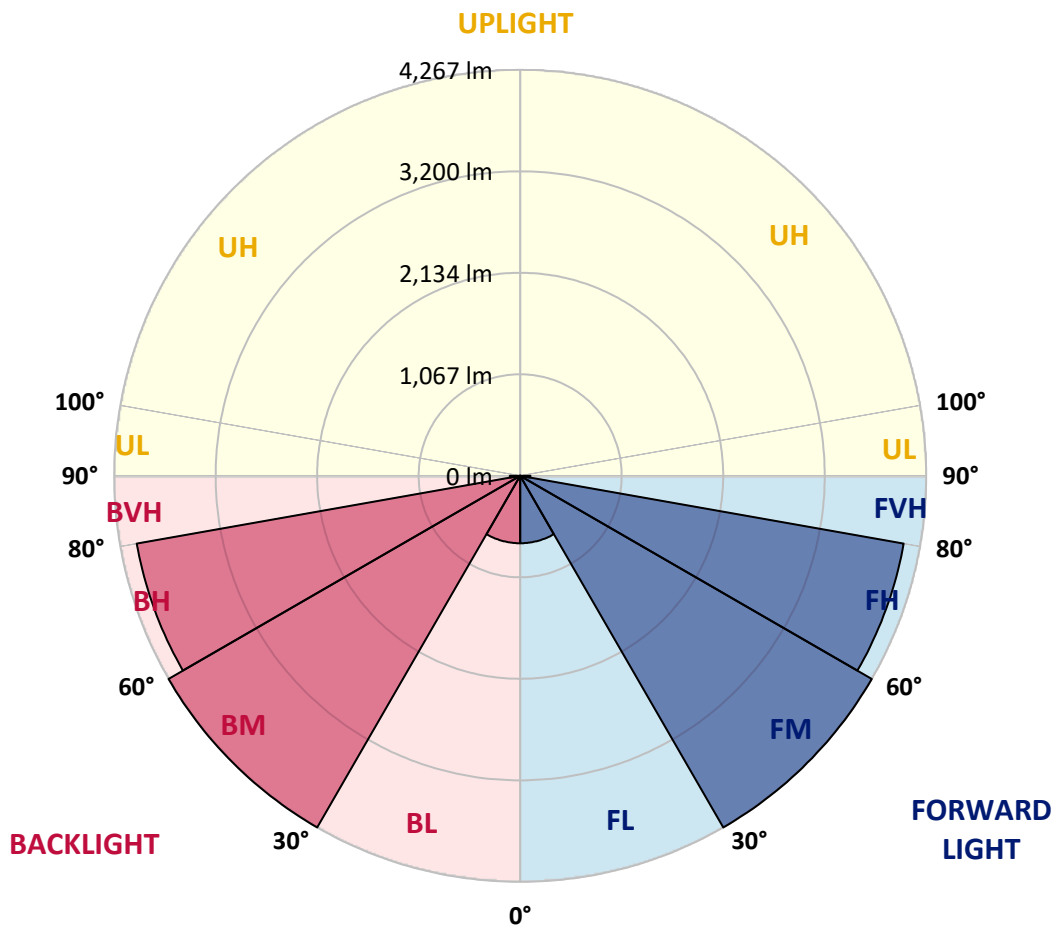
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	708.6	3.9			
FM	(30°-60°)	4267.1	23.3			
FH	(60°-80°)	4092.6	22.3			G2/5000
FVH	(80°-90°)	107.7	0.6			G2/225
BL	(0°-30°)	708.6	3.9	B2/1000		
BM	(30°-60°)	4267.1	23.3	B3/5000		
BH	(60°-80°)	4092.6	22.3	B4/5000		G2/5000
BVH	(80°-90°)	107.7	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°	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3	1279.3
2.5°	1296.4	1296.4	1293.0	1293.0	1286.1	1282.7	1279.3	1279.3	1275.9	1275.9	1272.5
5°	1303.2	1303.2	1303.2	1299.8	1296.4	1293.0	1286.1	1279.3	1275.9	1272.5	1269.1
7.5°	1306.6	1306.6	1303.2	1303.2	1299.8	1296.4	1286.1	1275.9	1272.5	1269.1	1269.1
10°	1333.9	1330.5	1327.1	1320.2	1320.2	1320.2	1306.6	1296.4	1293.0	1293.0	1293.0
12.5°	1398.7	1395.3	1388.5	1378.2	1378.2	1381.7	1361.2	1347.5	1347.5	1344.1	1344.1
15°	1494.2	1490.8	1484.0	1466.9	1463.5	1470.4	1439.6	1426.0	1426.0	1426.0	1422.6
17.5°	1600.0	1593.2	1582.9	1569.3	1569.3	1569.3	1538.6	1521.5	1511.3	1511.3	1507.9
20°	1688.7	1685.3	1685.3	1681.9	1692.1	1692.1	1651.2	1623.9	1600.0	1586.3	1582.9
22.5°	1767.2	1763.7	1770.6	1784.2	1804.7	1811.5	1763.7	1722.8	1685.3	1658.0	1651.2
25°	1872.9	1869.5	1866.1	1886.6	1920.7	1930.9	1879.7	1828.6	1791.0	1777.4	1770.6
27.5°	1985.5	1988.9	1992.3	2012.8	2040.1	2057.1	2006.0	1958.2	1927.5	1907.0	1900.2
30°	2111.7	2118.5	2128.8	2159.5	2179.9	2186.8	2142.4	2108.3	2081.0	2063.9	2053.7
32.5°	2272.1	2285.7	2299.3	2326.6	2336.9	2330.0	2309.6	2285.7	2265.2	2241.3	2237.9
35°	2510.9	2524.5	2521.1	2531.3	2534.7	2527.9	2517.7	2504.0	2493.8	2463.1	2459.7
37.5°	2811.1	2824.7	2804.2	2794.0	2770.1	2773.5	2770.1	2780.4	2783.8	2753.1	2749.7
40°	3114.7	3128.3	3101.0	3073.7	3049.9	3039.6	3056.7	3090.8	3090.8	3070.3	3070.3
42.5°	3438.8	3449.0	3404.7	3370.5	3339.8	3333.0	3343.3	3384.2	3394.4	3391.0	3391.0
45°	3762.9	3756.0	3698.1	3663.9	3636.6	3619.6	3623.0	3653.7	3674.2	3684.4	3684.4
47.5°	4011.9	4001.7	3953.9	3926.6	3909.6	3885.7	3885.7	3902.7	3913.0	3916.4	3916.4
50°	4209.8	4199.5	4151.8	4148.4	4148.4	4138.1	4127.9	4124.5	4117.7	4121.1	4121.1
52.5°	4380.3	4366.7	4332.6	4339.4	4370.1	4376.9	4363.3	4336.0	4308.7	4298.5	4301.9
55°	4564.6	4544.1	4516.8	4537.3	4598.7	4626.0	4605.5	4550.9	4503.2	4472.5	4472.5
57.5°	4711.3	4687.4	4687.4	4745.4	4858.0	4912.5	4868.2	4765.8	4684.0	4649.9	4653.3
60°	4608.9	4588.4	4670.3	4926.2	5137.7	5229.8	5154.8	4973.9	4840.9	4800.0	4806.8
62.5°	4407.6	4394.0	4496.3	4892.1	5390.1	5581.2	5468.6	5209.3	5011.5	4963.7	4963.7
65°	4110.8	4107.4	4250.7	4738.6	5448.1	5918.9	5823.4	5465.2	5209.3	5144.5	5158.2
67.5°	3803.8	3803.8	3933.4	4475.9	5379.9	6062.2	6137.3	5697.2	5304.9	5144.5	5147.9
70°	3261.4	3319.4	3663.9	4233.7	5130.9	5959.9	6266.9	5533.4	4888.7	4605.5	4595.3
72.5°	2149.2	2224.3	2910.0	3810.6	4885.2	5588.0	5656.2	4861.4	4059.7	3728.8	3711.7
75°	1296.4	1361.2	1886.6	2974.8	4295.1	4499.8	4199.5	3810.6	3032.8	2773.5	2773.5
77.5°	382.1	426.4	869.9	1886.6	2971.4	2957.8	2589.3	2244.8	1794.4	1524.9	1545.4
80°	225.2	232.0	283.2	859.7	1231.5	1296.4	999.6	624.3	624.3	464.0	450.3
82.5°	174.0	174.0	180.8	214.9	296.8	330.9	252.5	214.9	245.6	208.1	197.9
85°	122.8	122.8	122.8	126.2	129.6	133.0	139.9	143.3	156.9	129.6	122.8
87.5°	37.5	40.9	44.3	51.2	61.4	64.8	68.2	61.4	61.4	58.0	54.6
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)