

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: P836449

Luminaire Tested: **ARCH3-190-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836449
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: ARCH3-190-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21230 lumens
Efficiency: N/A
Efficacy: 112.1 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): 189.4
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



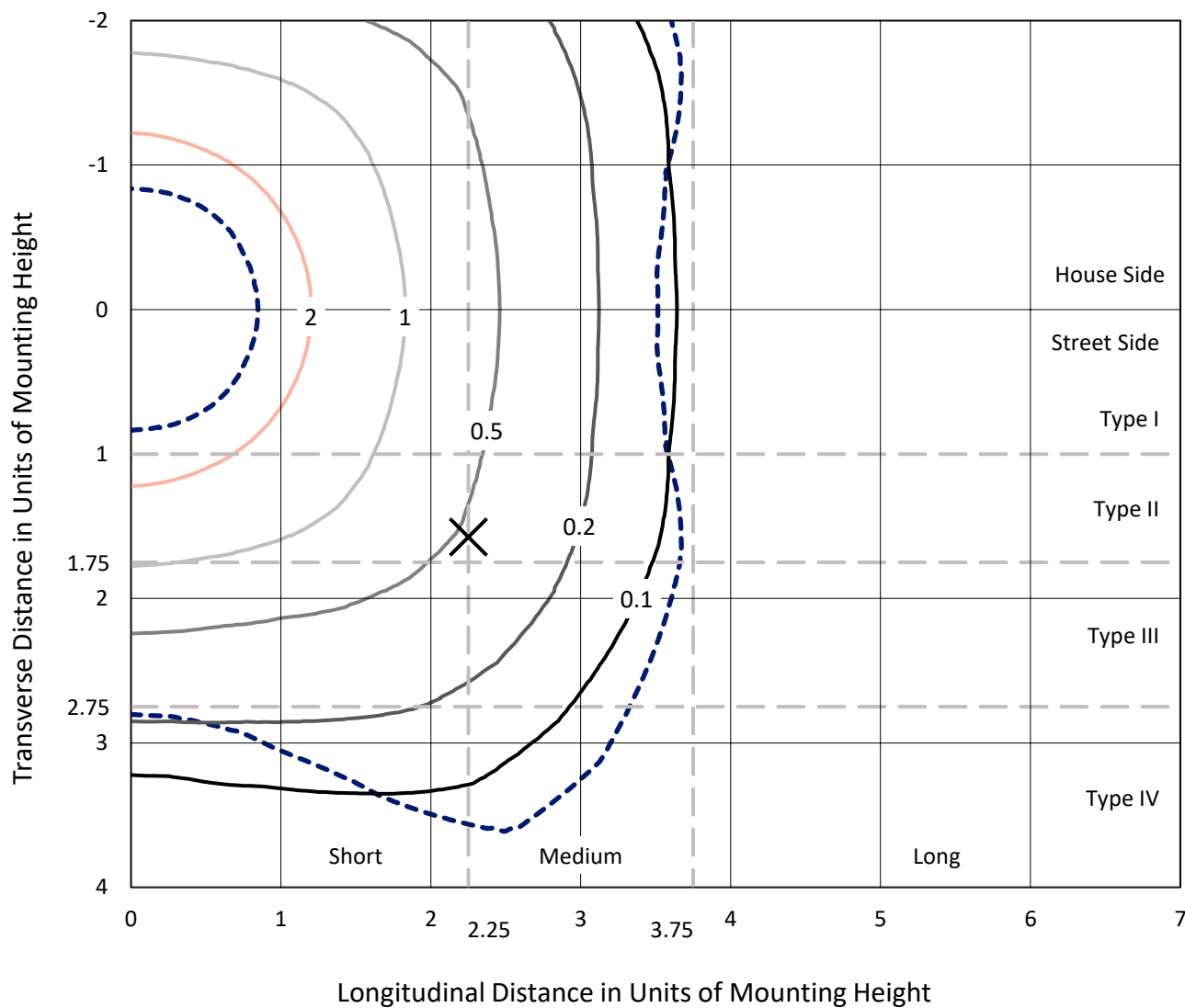
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

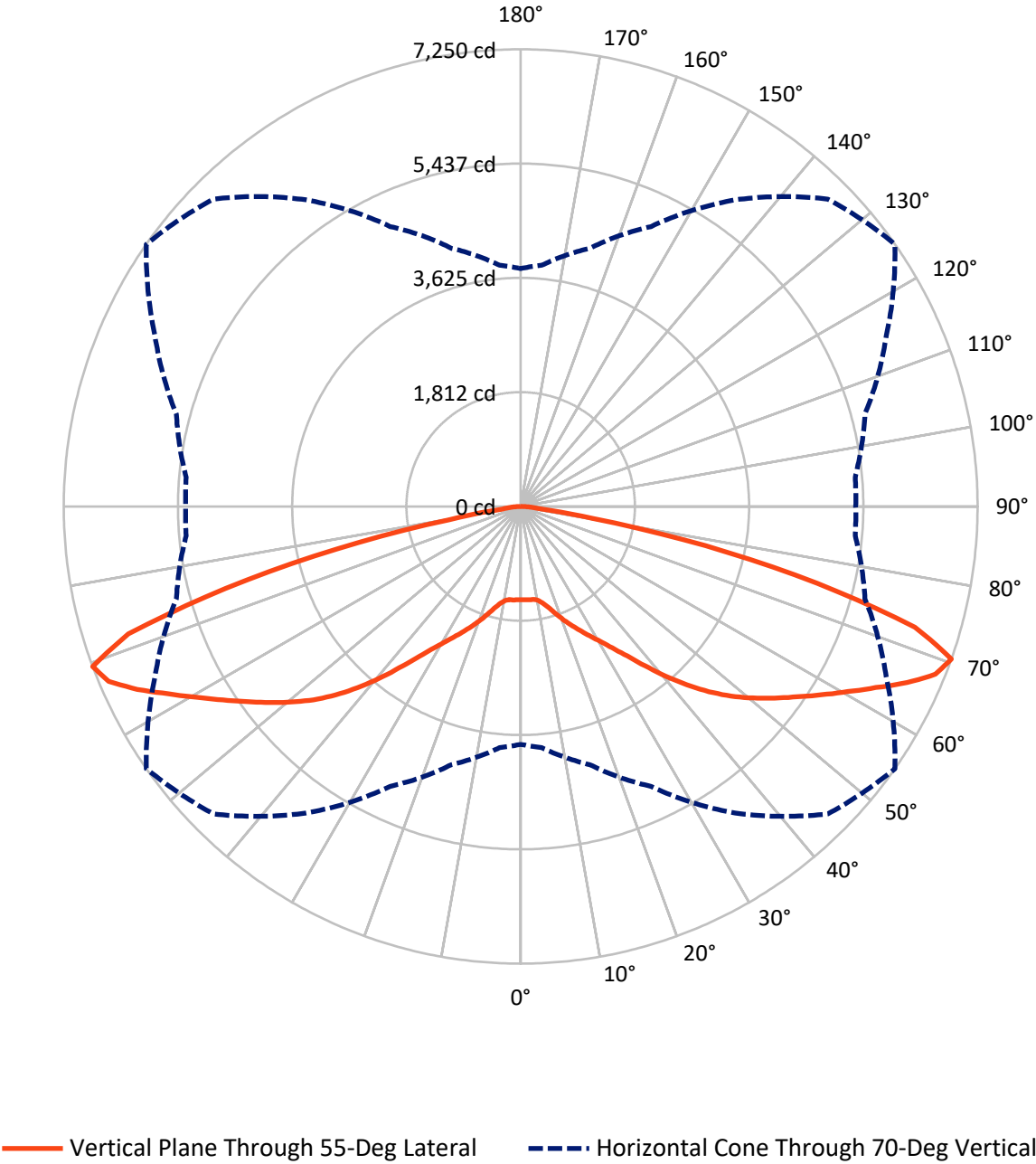
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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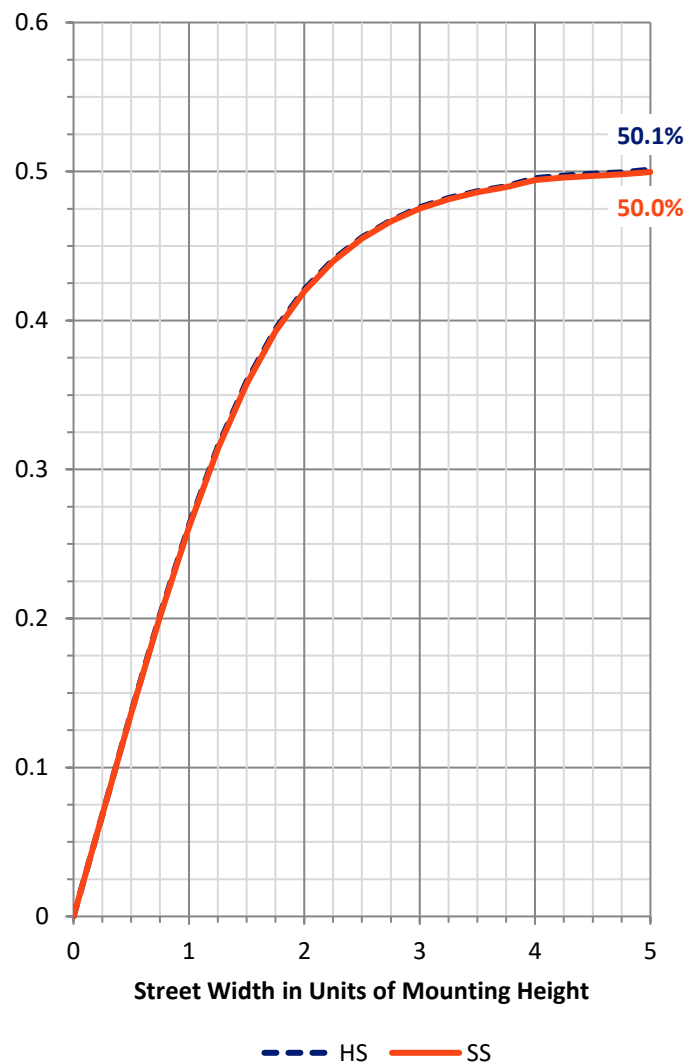
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10615.0	0.0	10615.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10615.0	0.0	10615.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21230.0	0.0	21230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	0.7
10°-20°	486.3	2.3
20°-30°	1010.4	4.8
30°-40°	1866.1	8.8
40°-50°	3278.3	15.4
50°-60°	4728.1	22.3
60°-70°	5786.7	27.3
70°-80°	3682.2	17.3
80°-90°	249.1	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°	21230.0	100.0
0°-180°	21230.0	100.0

Coefficient of Utilization



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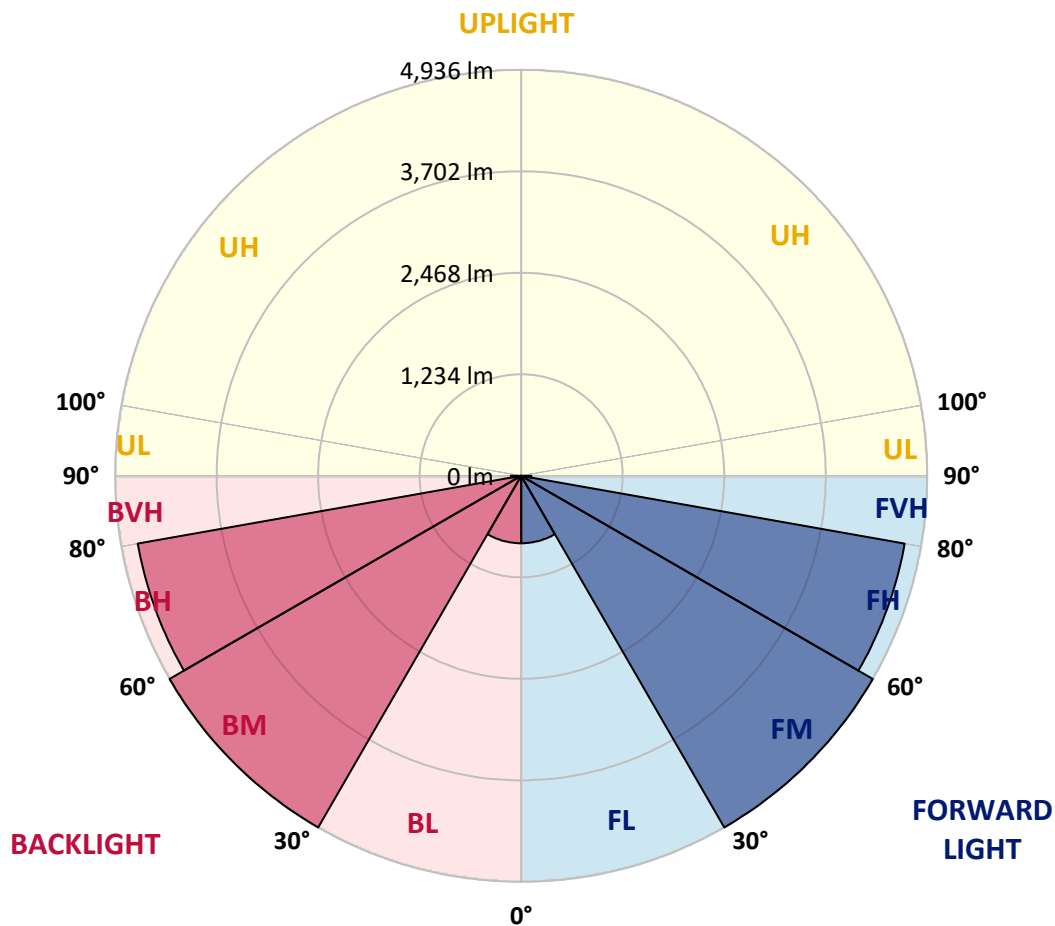
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.7	3.9			
FM	(30°-60°)	4936.2	23.3			
FH	(60°-80°)	4734.4	22.3			G2/5000
FVH	(80°-90°)	124.6	0.6			G2/225
BL	(0°-30°)	819.7	3.9	B2/1000		
BM	(30°-60°)	4936.2	23.3	B3/5000		
BH	(60°-80°)	4734.4	22.3	B4/5000		G2/5000
BVH	(80°-90°)	124.6	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°	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9	1479.9
2.5°	1499.7	1499.7	1495.7	1495.7	1487.8	1483.9	1479.9	1479.9	1476.0	1476.0	1472.0
5°	1507.6	1507.6	1507.6	1503.6	1499.7	1495.7	1487.8	1479.9	1476.0	1472.0	1468.1
7.5°	1511.5	1511.5	1507.6	1507.6	1503.6	1499.7	1487.8	1476.0	1472.0	1468.1	1468.1
10°	1543.1	1539.1	1535.2	1527.3	1527.3	1527.3	1511.5	1499.7	1495.7	1495.7	1495.7
12.5°	1618.1	1614.1	1606.2	1594.4	1594.4	1598.3	1574.6	1558.9	1558.9	1554.9	1554.9
15°	1728.6	1724.6	1716.7	1697.0	1693.0	1700.9	1665.4	1649.6	1649.6	1649.6	1645.7
17.5°	1850.9	1843.0	1831.2	1815.4	1815.4	1815.4	1779.9	1760.1	1748.3	1748.3	1744.3
20°	1953.5	1949.6	1949.6	1945.6	1957.5	1957.5	1910.1	1878.5	1850.9	1835.1	1831.2
22.5°	2044.3	2040.3	2048.2	2064.0	2087.7	2095.6	2040.3	1993.0	1949.6	1918.0	1910.1
25°	2166.6	2162.7	2158.7	2182.4	2221.9	2233.7	2174.5	2115.3	2071.9	2056.1	2048.2
27.5°	2296.9	2300.8	2304.7	2328.4	2360.0	2379.7	2320.5	2265.3	2229.8	2206.1	2198.2
30°	2442.9	2450.8	2462.6	2498.1	2521.8	2529.7	2478.4	2438.9	2407.4	2387.6	2375.8
32.5°	2628.4	2644.1	2659.9	2691.5	2703.3	2695.4	2671.8	2644.1	2620.5	2592.8	2588.9
35°	2904.6	2920.4	2916.5	2928.3	2932.2	2924.3	2912.5	2896.7	2884.9	2849.4	2845.4
37.5°	3251.9	3267.7	3244.0	3232.2	3204.5	3208.5	3204.5	3216.4	3220.3	3184.8	3180.9
40°	3603.1	3618.9	3587.4	3555.8	3528.2	3516.3	3536.0	3575.5	3575.5	3551.8	3551.8
42.5°	3978.1	3989.9	3938.6	3899.1	3863.6	3855.7	3867.6	3914.9	3926.8	3922.8	3922.8
45°	4353.0	4345.1	4278.0	4238.5	4207.0	4187.2	4191.2	4226.7	4250.4	4262.2	4262.2
47.5°	4641.1	4629.2	4574.0	4542.4	4522.7	4495.0	4495.0	4514.8	4526.6	4530.6	4530.6
50°	4870.0	4858.1	4802.9	4798.9	4798.9	4787.1	4775.2	4771.3	4763.4	4767.4	4767.4
52.5°	5067.3	5051.5	5012.0	5019.9	5055.4	5063.3	5047.6	5016.0	4984.4	4972.6	4976.5
55°	5280.4	5256.7	5225.1	5248.8	5319.9	5351.4	5327.8	5264.6	5209.4	5173.8	5173.8
57.5°	5450.1	5422.5	5422.5	5489.6	5619.8	5682.9	5631.6	5513.2	5418.5	5379.1	5383.0
60°	5331.7	5308.0	5402.7	5698.7	5943.4	6050.0	5963.1	5754.0	5600.1	5552.7	5560.6
62.5°	5098.9	5083.1	5201.5	5659.3	6235.4	6456.4	6326.2	6026.3	5797.4	5742.1	5742.1
65°	4755.5	4751.6	4917.3	5481.7	6302.5	6847.1	6736.6	6322.3	6026.3	5951.3	5967.1
67.5°	4400.3	4400.3	4550.3	5177.8	6223.6	7012.9	7099.7	6590.6	6136.8	5951.3	5955.2
70°	3772.8	3839.9	4238.5	4897.6	5935.5	6894.5	7249.7	6401.2	5655.3	5327.8	5315.9
72.5°	2486.3	2573.1	3366.4	4408.2	5651.4	6464.3	6543.3	5623.7	4696.3	4313.5	4293.8
75°	1499.7	1574.6	2182.4	3441.3	4968.6	5205.4	4858.1	4408.2	3508.4	3208.5	3208.5
77.5°	442.0	493.3	1006.4	2182.4	3437.4	3421.6	2995.4	2596.8	2075.9	1764.1	1787.8
80°	260.5	268.4	327.6	994.5	1424.7	1499.7	1156.3	722.2	722.2	536.7	520.9
82.5°	201.3	201.3	209.2	248.6	343.3	382.8	292.0	248.6	284.1	240.7	228.9
85°	142.1	142.1	142.1	146.0	150.0	153.9	161.8	165.8	181.5	150.0	142.1
87.5°	43.4	47.4	51.3	59.2	71.0	75.0	78.9	71.0	71.0	67.1	63.1
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)