

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: P836305

Luminaire Tested: **ARCH3-170-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836305
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: ARCH3-170-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19900 lumens
Efficiency: N/A
Efficacy: 116.6 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): 170.6
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

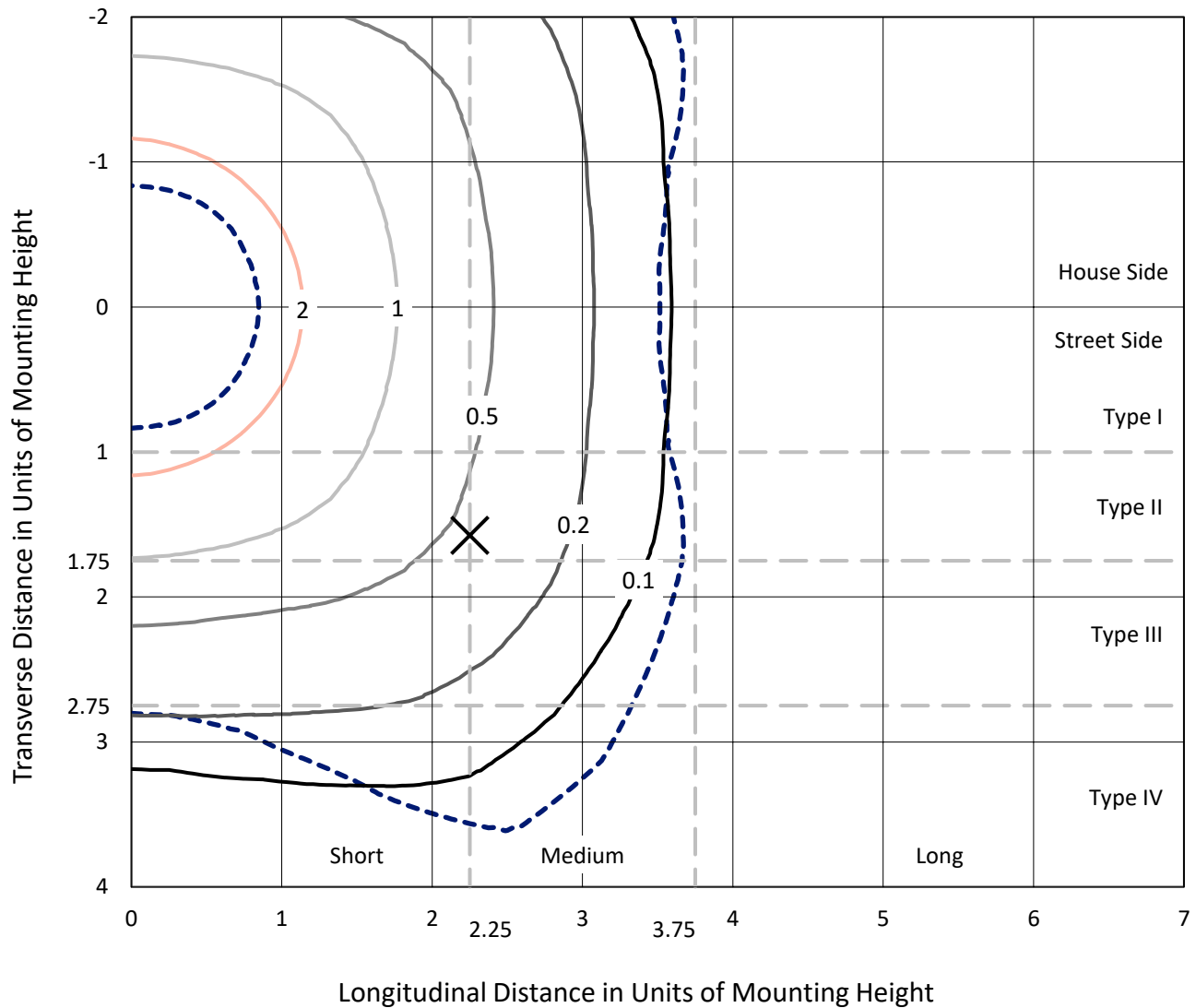


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Iso-Footcandle Lines of Horizontal Illumination

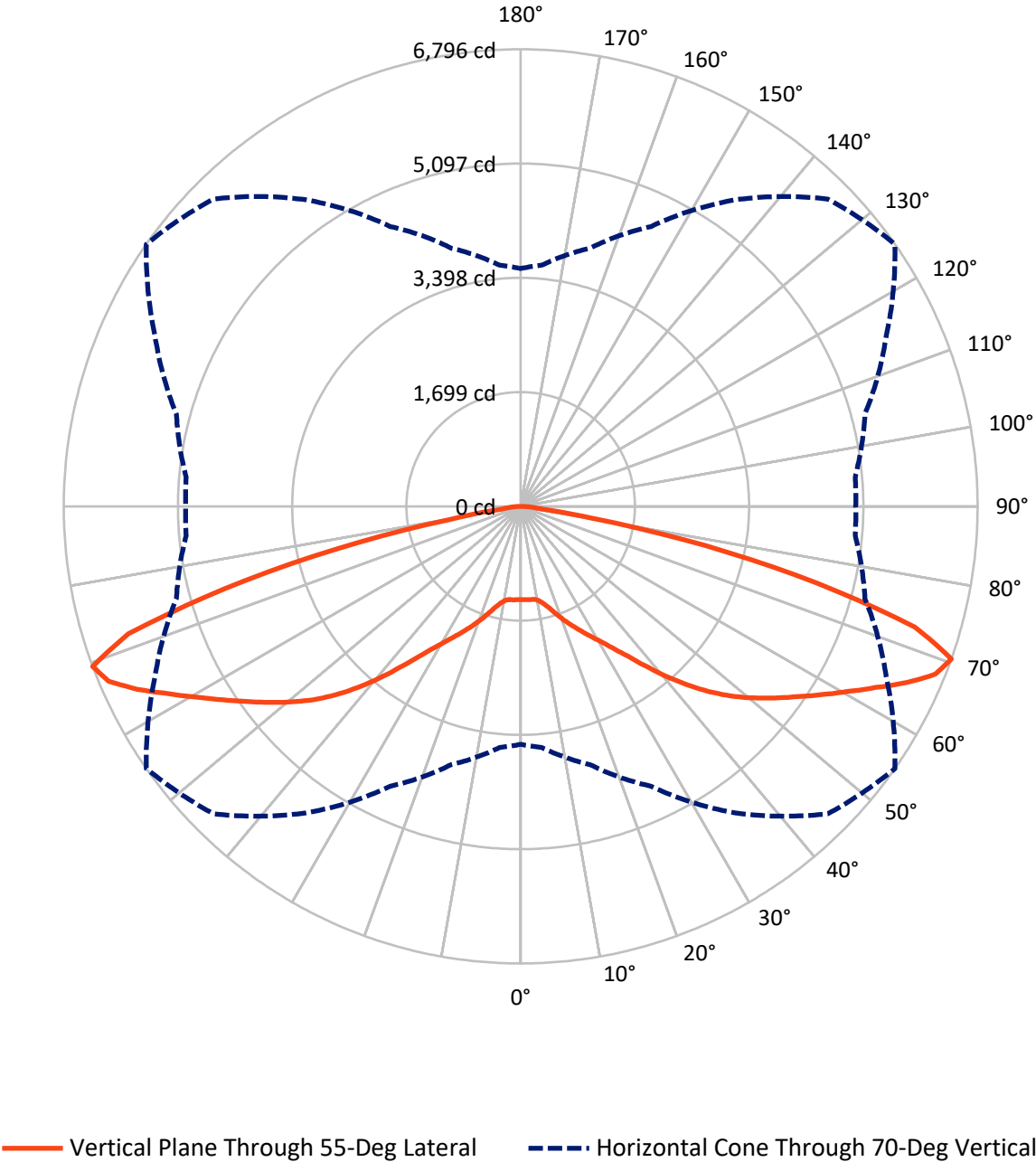
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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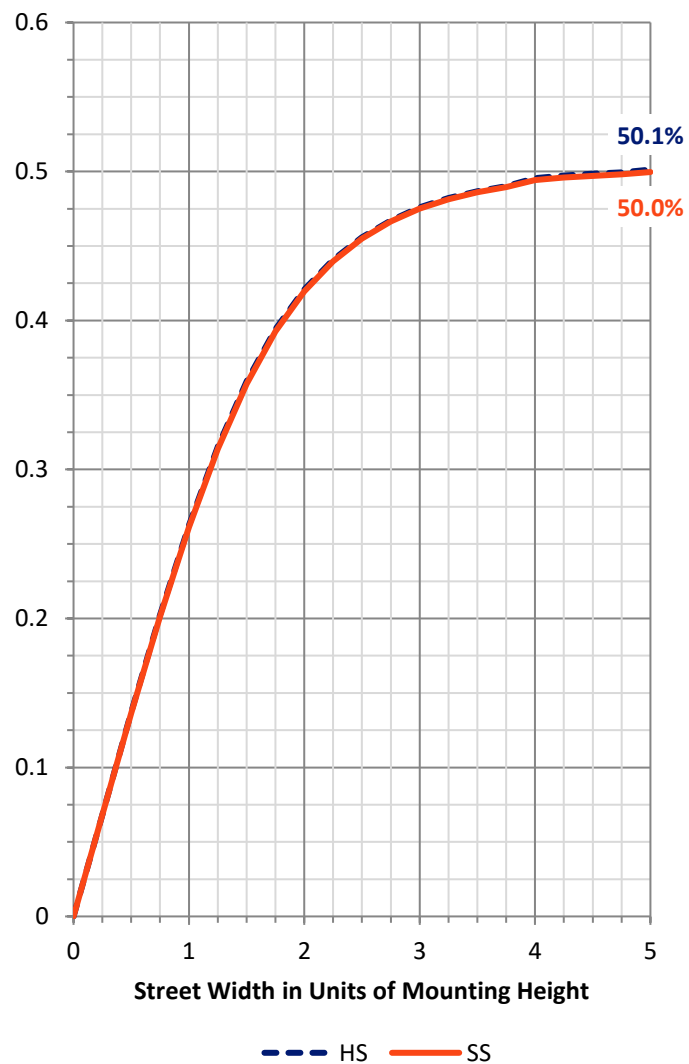
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9950.0	0.0	9950.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9950.0	0.0	9950.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19900.0	0.0	19900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	0.7
10°-20°	455.8	2.3
20°-30°	947.1	4.8
30°-40°	1749.2	8.8
40°-50°	3072.9	15.4
50°-60°	4431.9	22.3
60°-70°	5424.2	27.3
70°-80°	3451.5	17.3
80°-90°	233.6	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°	19900.0	100.0
0°-180°	19900.0	100.0

Coefficient of Utilization



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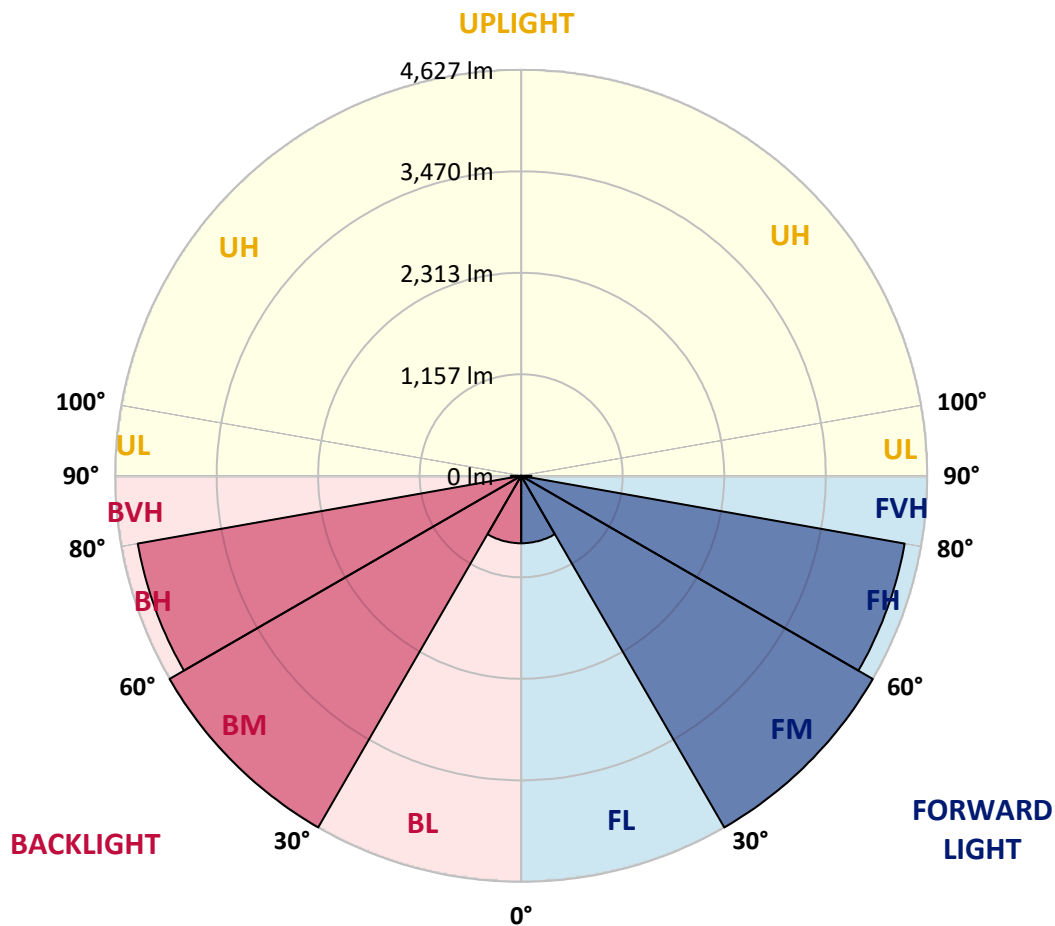
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.4	3.9			
FM	(30°-60°)	4627.0	23.3			
FH	(60°-80°)	4437.8	22.3			G2/5000
FVH	(80°-90°)	116.8	0.6			G2/225
BL	(0°-30°)	768.4	3.9	B2/1000		
BM	(30°-60°)	4627.0	23.3	B3/5000		
BH	(60°-80°)	4437.8	22.3	B4/5000		G2/5000
BVH	(80°-90°)	116.8	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°	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2
2.5°	1405.7	1405.7	1402.0	1402.0	1394.6	1390.9	1387.2	1387.2	1383.5	1383.5	1379.8
5°	1413.1	1413.1	1413.1	1409.4	1405.7	1402.0	1394.6	1387.2	1383.5	1379.8	1376.1
7.5°	1416.8	1416.8	1413.1	1413.1	1409.4	1405.7	1394.6	1383.5	1379.8	1376.1	1376.1
10°	1446.4	1442.7	1439.0	1431.6	1431.6	1431.6	1416.8	1405.7	1402.0	1402.0	1402.0
12.5°	1516.7	1513.0	1505.6	1494.5	1494.5	1498.2	1476.0	1461.2	1461.2	1457.5	1457.5
15°	1620.3	1616.6	1609.2	1590.7	1587.0	1594.4	1561.1	1546.3	1546.3	1546.3	1542.6
17.5°	1734.9	1727.5	1716.5	1701.7	1701.7	1701.7	1668.4	1649.9	1638.8	1638.8	1635.1
20°	1831.1	1827.4	1827.4	1823.7	1834.8	1834.8	1790.4	1760.8	1734.9	1720.1	1716.5
22.5°	1916.2	1912.5	1919.9	1934.7	1956.9	1964.3	1912.5	1868.1	1827.4	1797.8	1790.4
25°	2030.9	2027.2	2023.5	2045.7	2082.7	2093.8	2038.3	1982.8	1942.1	1927.3	1919.9
27.5°	2153.0	2156.7	2160.4	2182.6	2212.1	2230.6	2175.2	2123.4	2090.1	2067.9	2060.5
30°	2289.8	2297.2	2308.3	2341.6	2363.8	2371.2	2323.1	2286.1	2256.5	2238.0	2226.9
32.5°	2463.7	2478.5	2493.3	2522.9	2534.0	2526.6	2504.4	2478.5	2456.3	2430.4	2426.7
35°	2722.6	2737.4	2733.7	2744.8	2748.5	2741.1	2730.0	2715.2	2704.1	2670.9	2667.2
37.5°	3048.2	3063.0	3040.8	3029.7	3003.8	3007.5	3003.8	3014.9	3018.6	2985.3	2981.6
40°	3377.4	3392.2	3362.6	3333.0	3307.1	3296.0	3314.5	3351.5	3351.5	3329.3	3329.3
42.5°	3728.8	3739.9	3691.8	3654.9	3621.6	3614.2	3625.3	3669.7	3680.8	3677.1	3677.1
45°	4080.3	4072.9	4010.0	3973.0	3943.4	3924.9	3928.6	3961.9	3984.1	3995.2	3995.2
47.5°	4350.3	4339.2	4287.4	4257.8	4239.3	4213.4	4213.4	4231.9	4243.0	4246.7	4246.7
50°	4564.9	4553.8	4502.0	4498.3	4498.3	4487.2	4476.1	4472.4	4465.0	4468.7	4468.7
52.5°	4749.8	4735.0	4698.0	4705.4	4738.7	4746.1	4731.3	4701.7	4672.1	4661.1	4664.8
55°	4949.6	4927.4	4897.8	4920.0	4986.6	5016.2	4994.0	4934.8	4883.0	4849.7	4849.7
57.5°	5108.7	5082.8	5082.8	5145.7	5267.7	5326.9	5278.8	5167.8	5079.1	5042.1	5045.8
60°	4997.7	4975.5	5064.3	5341.7	5571.1	5670.9	5589.6	5393.5	5249.2	5204.8	5212.2
62.5°	4779.4	4764.6	4875.6	5304.7	5844.8	6052.0	5929.9	5648.8	5434.2	5382.4	5382.4
65°	4457.6	4453.9	4609.3	5138.3	5907.7	6418.2	6314.6	5926.2	5648.8	5578.5	5593.3
67.5°	4124.7	4124.7	4265.2	4853.4	5833.7	6573.6	6654.9	6177.7	5752.3	5578.5	5582.2
70°	3536.5	3599.4	3973.0	4590.8	5563.7	6462.6	6795.5	6000.2	5301.0	4994.0	4982.9
72.5°	2330.5	2411.9	3155.5	4132.1	5297.3	6059.4	6133.4	5271.4	4402.1	4043.3	4024.8
75°	1405.7	1476.0	2045.7	3225.7	4657.4	4879.3	4553.8	4132.1	3288.6	3007.5	3007.5
77.5°	414.3	462.4	943.3	2045.7	3222.0	3207.2	2807.7	2434.1	1945.8	1653.6	1675.8
80°	244.2	251.5	307.0	932.2	1335.4	1405.7	1083.9	677.0	677.0	503.1	488.3
82.5°	188.7	188.7	196.1	233.1	321.8	358.8	273.7	233.1	266.3	225.7	214.6
85°	133.2	133.2	133.2	136.9	140.6	144.3	151.7	155.4	170.2	140.6	133.2
87.5°	40.7	44.4	48.1	55.5	66.6	70.3	74.0	66.6	66.6	62.9	59.2
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)