

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: P836089

Luminaire Tested: **ARCH3-140-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836089
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: ARCH3-140-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17623 lumens
Efficiency: N/A
Efficacy: 123.7 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): 142.5
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

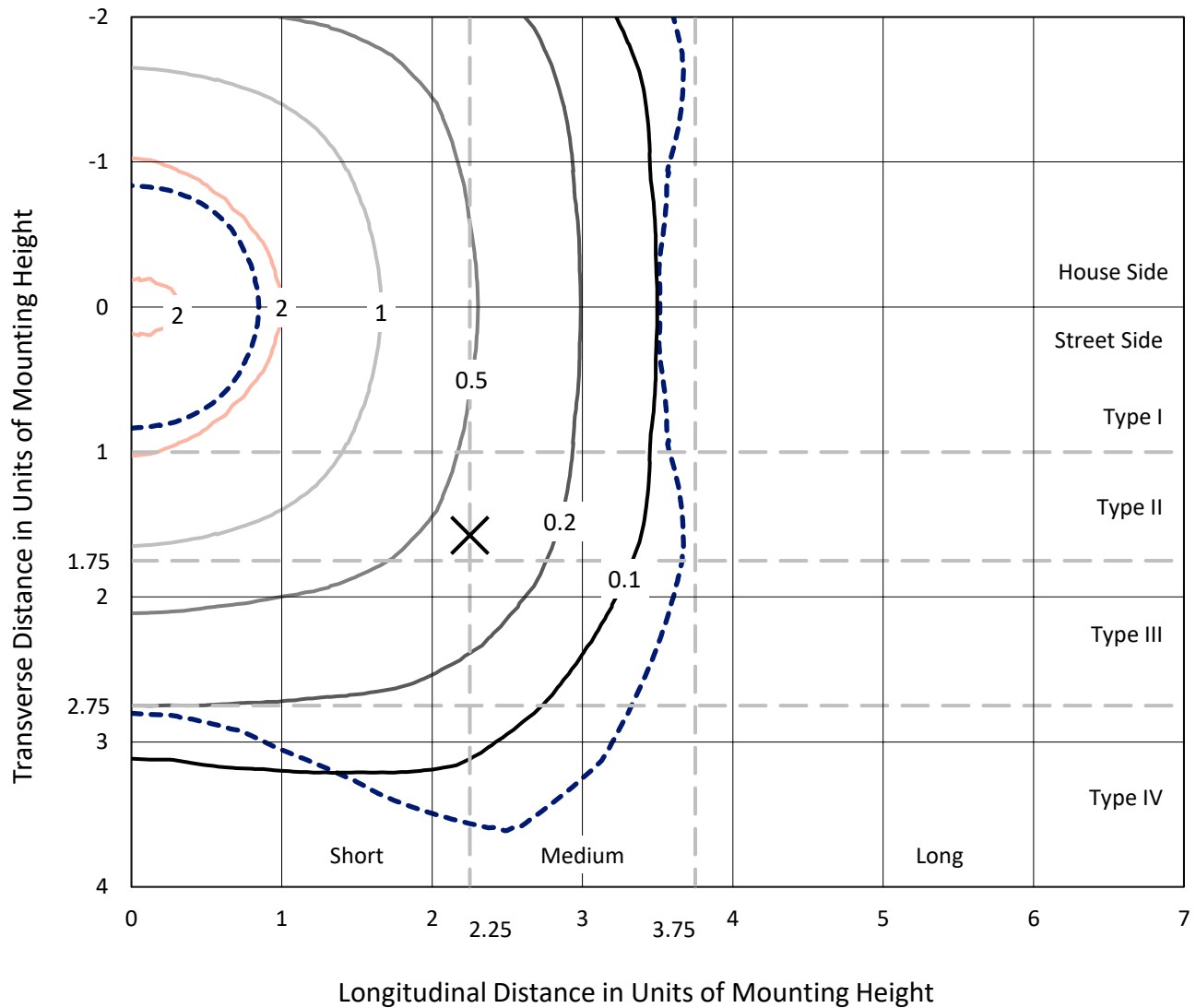


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Iso-Footcandle Lines of Horizontal Illumination

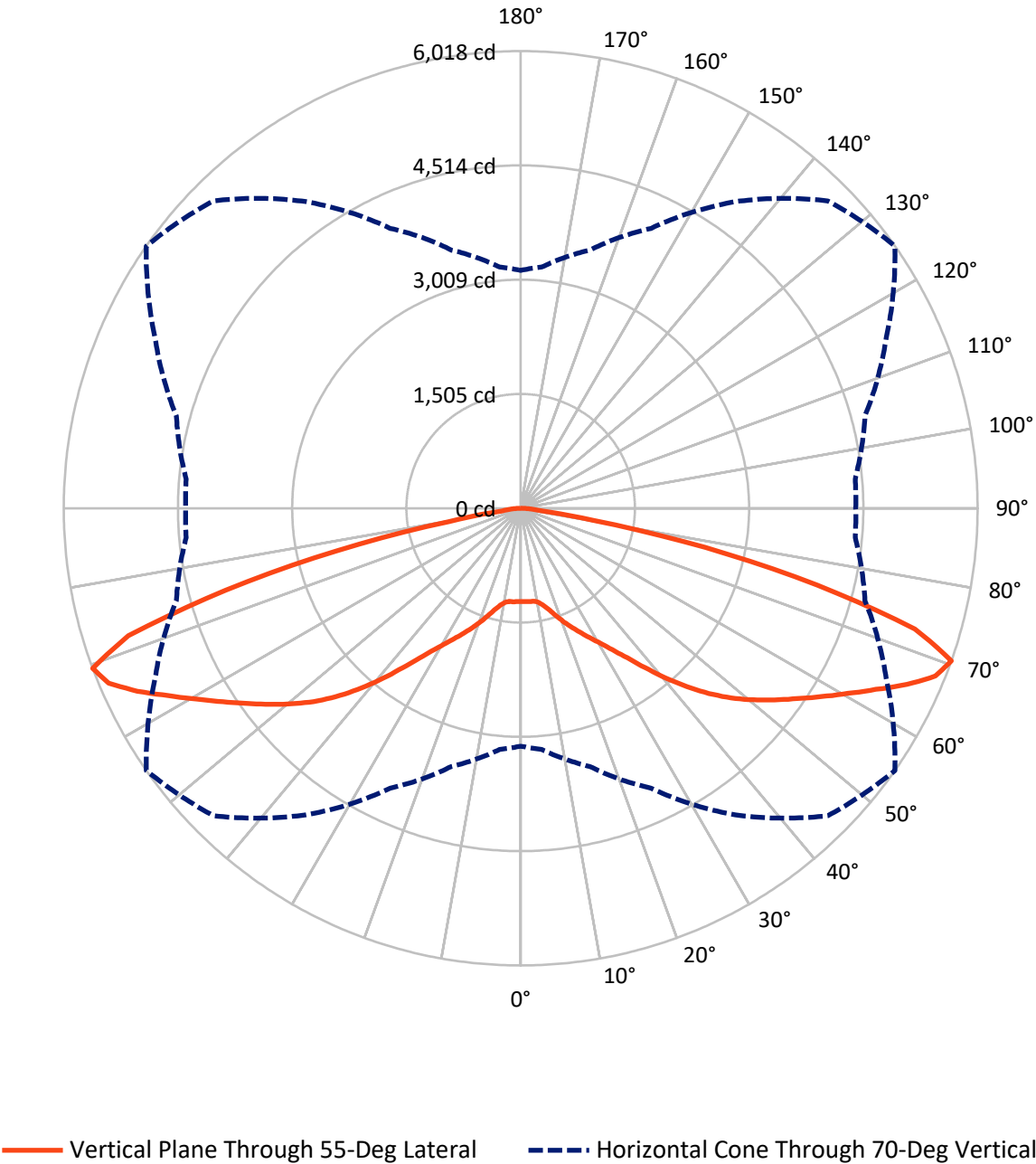
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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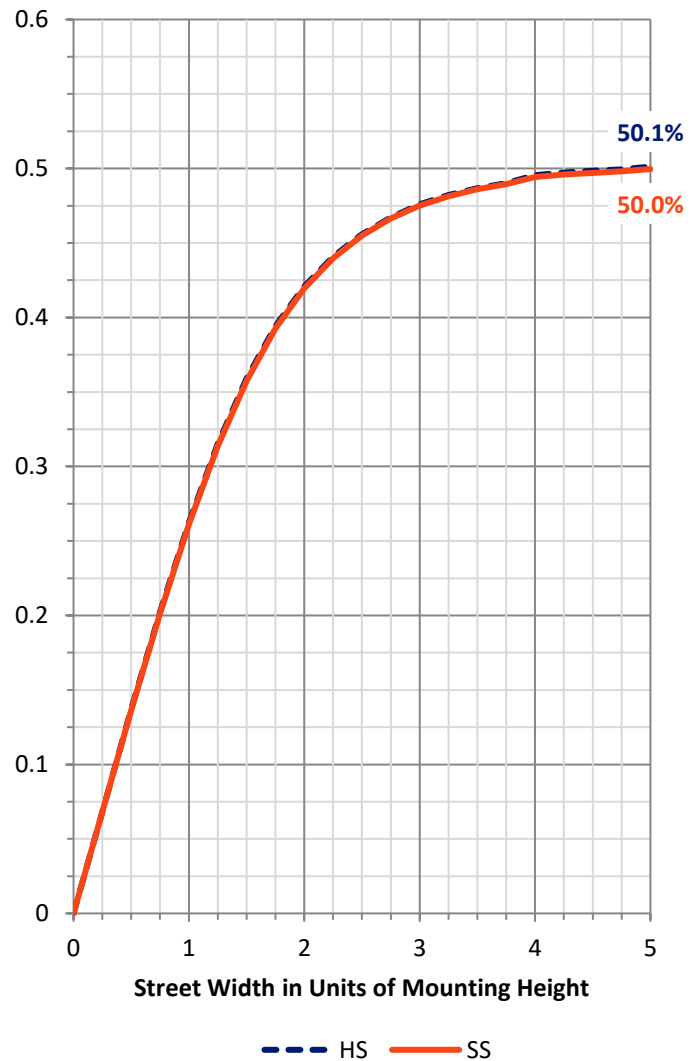
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8811.5	0.0	8811.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8811.5	0.0	8811.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17623.0	0.0	17623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	0.7
10°-20°	403.6	2.3
20°-30°	838.7	4.8
30°-40°	1549.0	8.8
40°-50°	2721.3	15.4
50°-60°	3924.8	22.3
60°-70°	4803.5	27.3
70°-80°	3056.6	17.3
80°-90°	206.8	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°	17623.0	100.0
0°-180°	17623.0	100.0

Coefficient of Utilization



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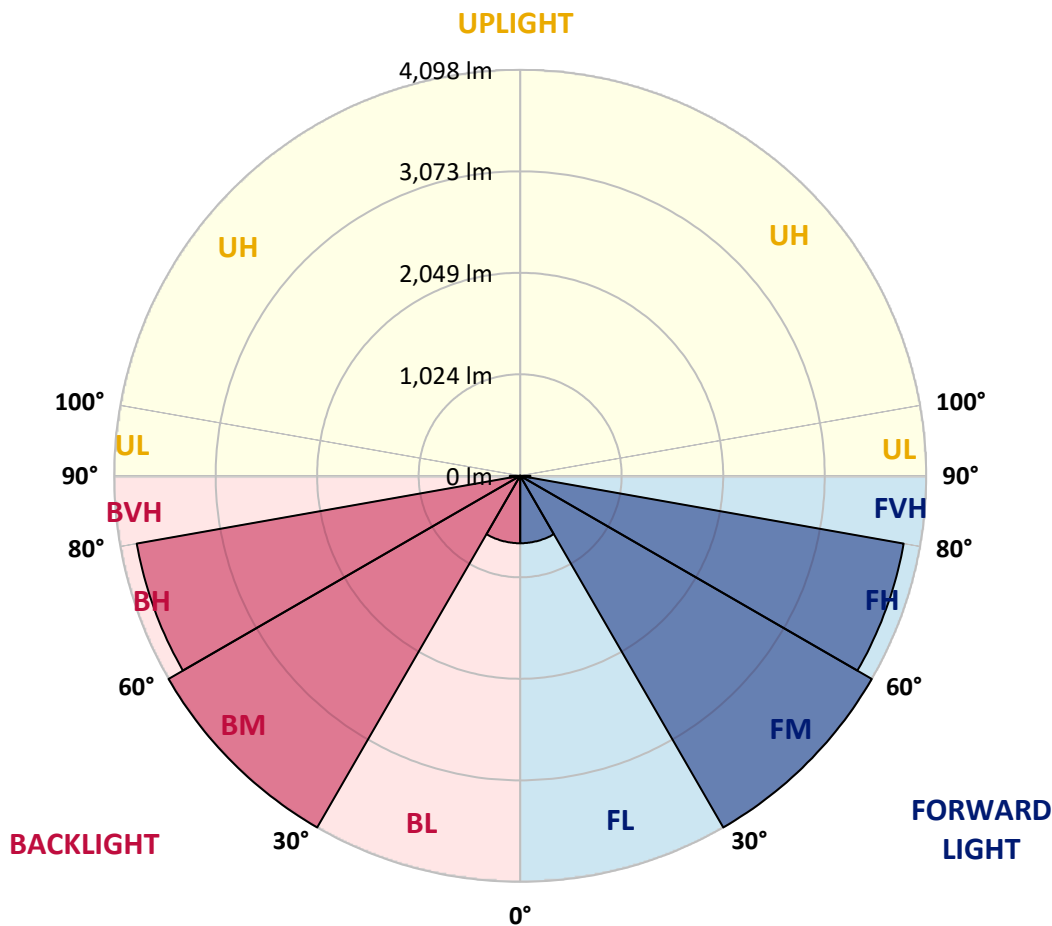
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	680.5	3.9			
FM	(30°-60°)	4097.6	23.3			
FH	(60°-80°)	3930.0	22.3			G2/5000
FVH	(80°-90°)	103.4	0.6			G2/225
BL	(0°-30°)	680.5	3.9	B2/1000		
BM	(30°-60°)	4097.6	23.3	B3/5000		
BH	(60°-80°)	3930.0	22.3	B4/5000		G2/5000
BVH	(80°-90°)	103.4	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°	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5	1228.5
2.5°	1244.9	1244.9	1241.6	1241.6	1235.0	1231.8	1228.5	1228.5	1225.2	1225.2	1221.9
5°	1251.4	1251.4	1251.4	1248.1	1244.9	1241.6	1235.0	1228.5	1225.2	1221.9	1218.7
7.5°	1254.7	1254.7	1251.4	1251.4	1248.1	1244.9	1235.0	1225.2	1221.9	1218.7	1218.7
10°	1280.9	1277.6	1274.4	1267.8	1267.8	1267.8	1254.7	1244.9	1241.6	1241.6	1241.6
12.5°	1343.1	1339.9	1333.3	1323.5	1323.5	1326.8	1307.1	1294.0	1294.0	1290.7	1290.7
15°	1434.9	1431.6	1425.0	1408.7	1405.4	1411.9	1382.5	1369.4	1369.4	1369.4	1366.1
17.5°	1536.4	1529.9	1520.1	1506.9	1506.9	1506.9	1477.5	1461.1	1451.3	1451.3	1448.0
20°	1621.6	1618.3	1618.3	1615.1	1624.9	1624.9	1585.6	1559.4	1536.4	1523.3	1520.1
22.5°	1697.0	1693.7	1700.2	1713.3	1733.0	1739.5	1693.7	1654.4	1618.3	1592.1	1585.6
25°	1798.5	1795.2	1792.0	1811.6	1844.4	1854.2	1805.1	1755.9	1719.9	1706.8	1700.2
27.5°	1906.6	1909.9	1913.2	1932.8	1959.0	1975.4	1926.3	1880.4	1850.9	1831.3	1824.7
30°	2027.8	2034.4	2044.2	2073.7	2093.3	2099.9	2057.3	2024.6	1998.3	1982.0	1972.1
32.5°	2181.8	2194.9	2208.0	2234.2	2244.0	2237.5	2217.8	2194.9	2175.2	2152.3	2149.0
35°	2411.1	2424.2	2420.9	2430.8	2434.0	2427.5	2417.7	2404.6	2394.7	2365.3	2362.0
37.5°	2699.4	2712.5	2692.8	2683.0	2660.1	2663.4	2660.1	2669.9	2673.2	2643.7	2640.4
40°	2991.0	3004.1	2977.9	2951.7	2928.7	2918.9	2935.3	2968.0	2968.0	2948.4	2948.4
42.5°	3302.2	3312.0	3269.4	3236.7	3207.2	3200.6	3210.5	3249.8	3259.6	3256.3	3256.3
45°	3613.4	3606.8	3551.2	3518.4	3492.2	3475.8	3479.1	3508.6	3528.2	3538.0	3538.0
47.5°	3852.5	3842.7	3796.9	3770.6	3754.3	3731.3	3731.3	3747.7	3757.5	3760.8	3760.8
50°	4042.5	4032.7	3986.9	3983.6	3983.6	3973.8	3963.9	3960.6	3954.1	3957.4	3957.4
52.5°	4206.3	4193.2	4160.5	4167.0	4196.5	4203.1	4190.0	4163.8	4137.6	4127.7	4131.0
55°	4383.2	4363.6	4337.4	4357.0	4416.0	4442.2	4422.6	4370.1	4324.3	4294.8	4294.8
57.5°	4524.1	4501.2	4501.2	4556.9	4665.0	4717.4	4674.8	4576.5	4497.9	4465.1	4468.4
60°	4425.8	4406.2	4484.8	4730.5	4933.6	5022.1	4950.0	4776.4	4648.6	4609.3	4615.8
62.5°	4232.6	4219.5	4317.7	4697.7	5176.0	5359.5	5251.4	5002.4	4812.4	4766.5	4766.5
65°	3947.5	3944.3	4081.9	4550.3	5231.7	5683.8	5592.1	5248.1	5002.4	4940.2	4953.3
67.5°	3652.7	3652.7	3777.2	4298.1	5166.2	5821.4	5893.5	5470.9	5094.1	4940.2	4943.4
70°	3131.8	3187.5	3518.4	4065.5	4927.1	5723.1	6018.0	5313.6	4694.5	4422.6	4412.7
72.5°	2063.9	2135.9	2794.4	3659.3	4691.2	5366.0	5431.6	4668.3	3898.4	3580.6	3564.3
75°	1244.9	1307.1	1811.6	2856.6	4124.4	4321.0	4032.7	3659.3	2912.3	2663.4	2663.4
77.5°	366.9	409.5	835.4	1811.6	2853.4	2840.3	2486.5	2155.6	1723.2	1464.4	1484.0
80°	216.2	222.8	271.9	825.5	1182.6	1244.9	959.9	599.5	599.5	445.5	432.4
82.5°	167.1	167.1	173.6	206.4	285.0	317.8	242.4	206.4	235.9	199.8	190.0
85°	117.9	117.9	117.9	121.2	124.5	127.8	134.3	137.6	150.7	124.5	117.9
87.5°	36.0	39.3	42.6	49.1	59.0	62.2	65.5	59.0	59.0	55.7	52.4
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)