

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: P836881

Luminaire Tested: **ARCH3-90-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836881
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: ARCH3-90-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12583 lumens
Efficiency: N/A
Efficacy: 135.2 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): 93.1
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

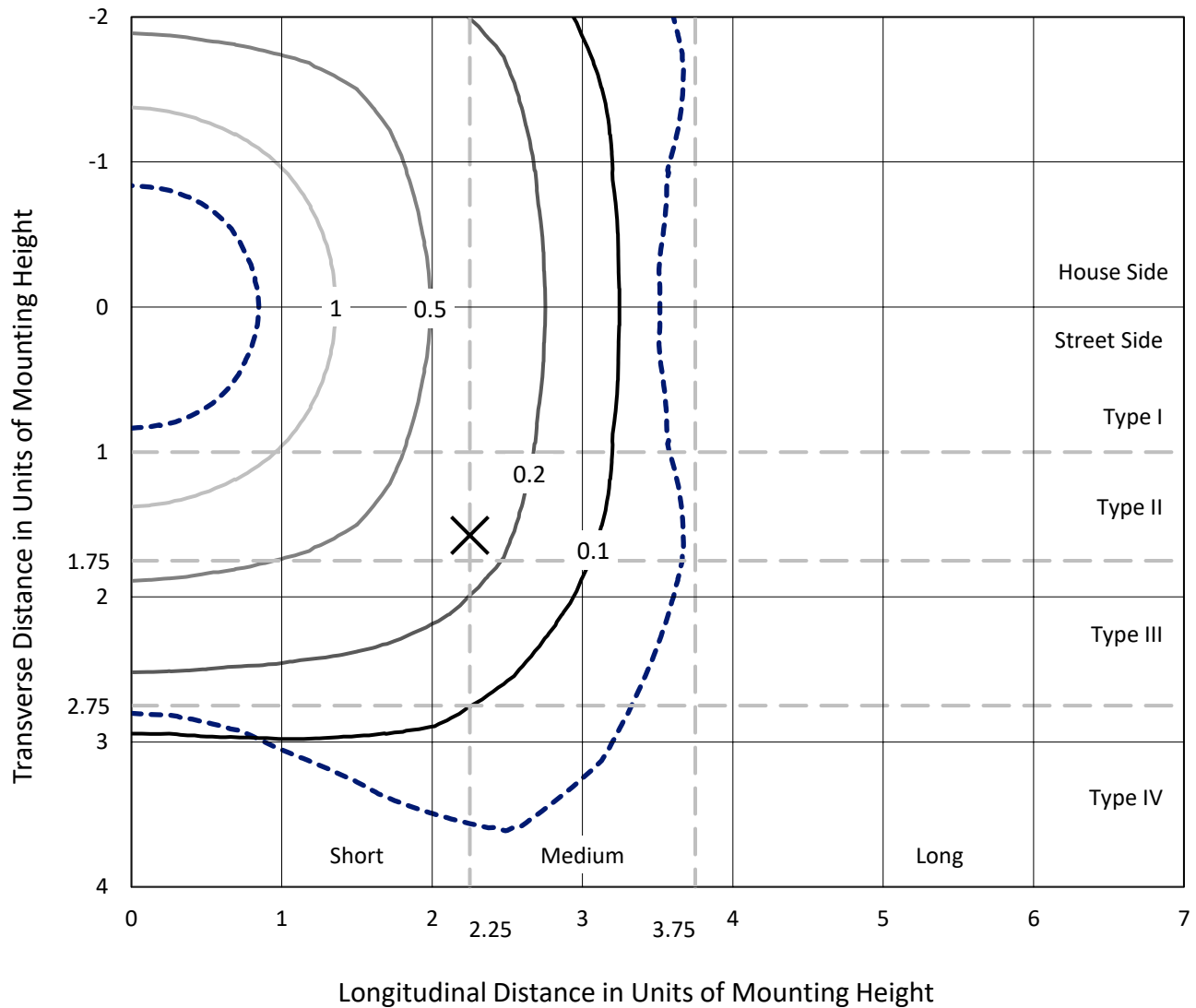


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Iso-Footcandle Lines of Horizontal Illumination

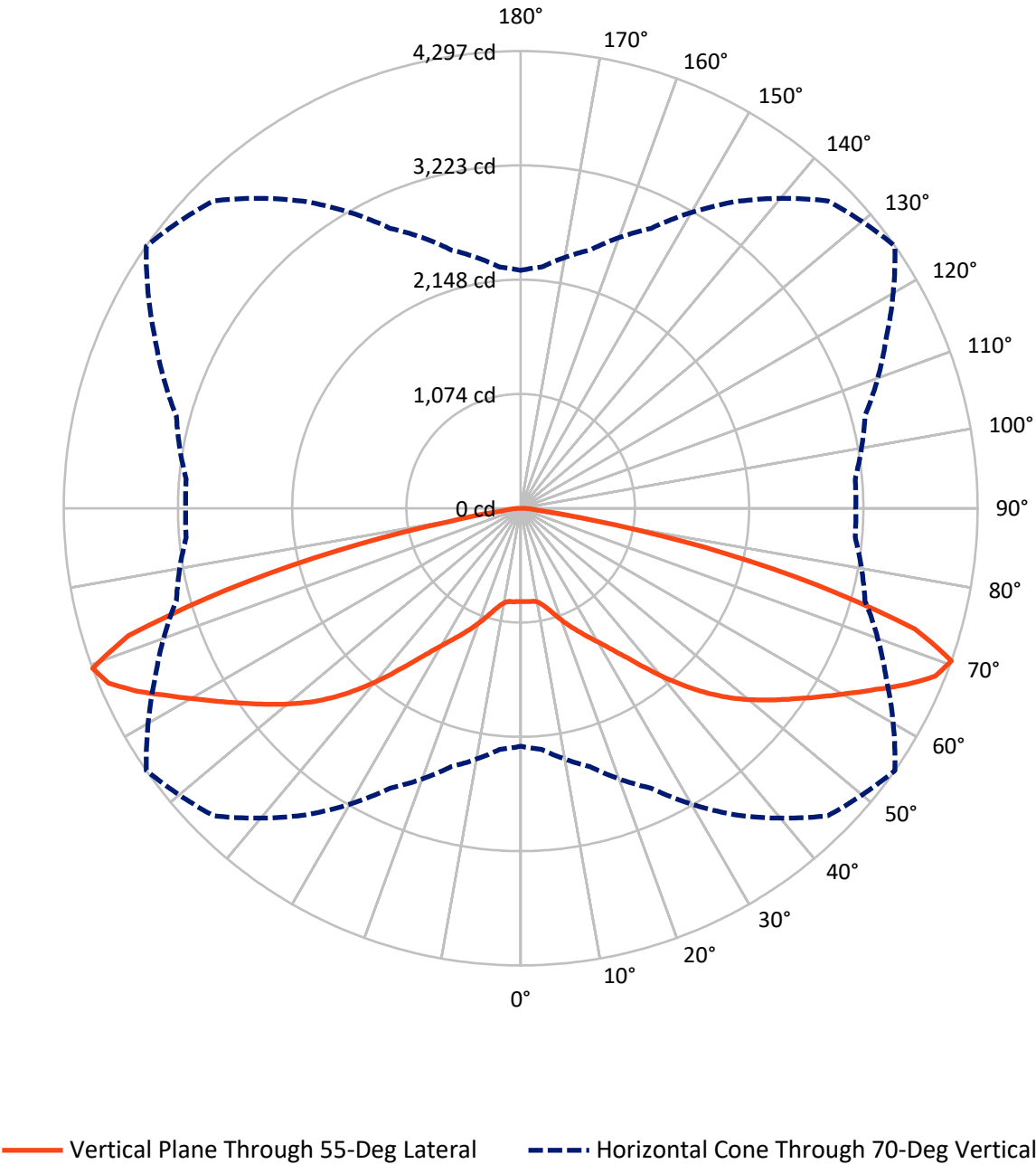
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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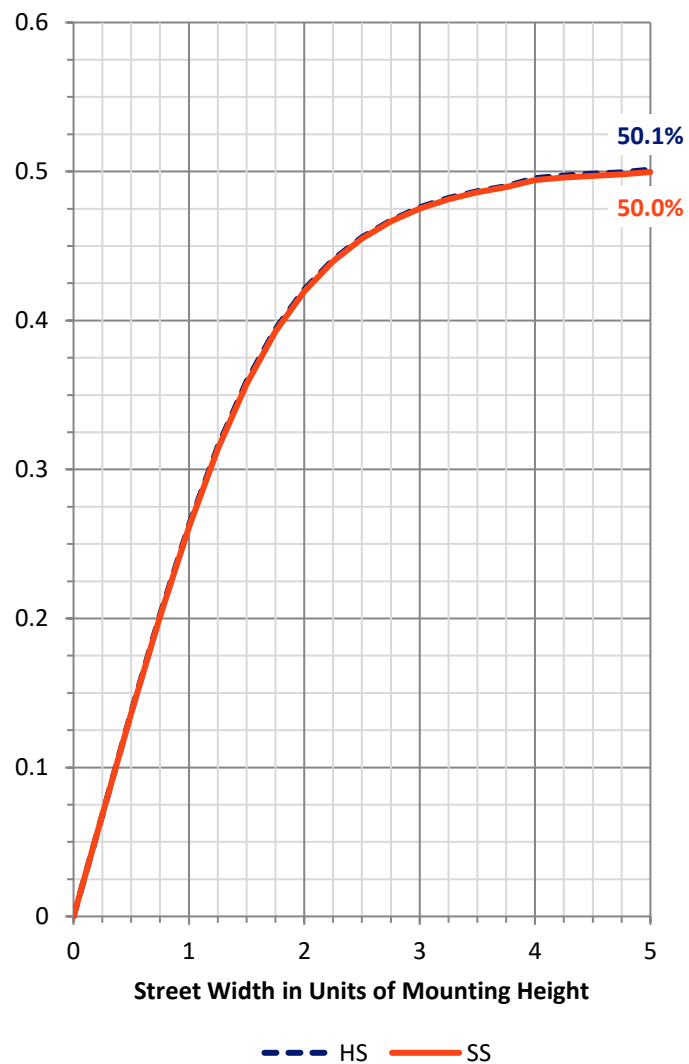
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6291.5	0.0	6291.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6291.5	0.0	6291.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12583.0	0.0	12583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	0.7
10°-20°	288.2	2.3
20°-30°	598.8	4.8
30°-40°	1106.0	8.8
40°-50°	1943.1	15.4
50°-60°	2802.3	22.3
60°-70°	3429.8	27.3
70°-80°	2182.4	17.3
80°-90°	147.7	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°	12583.0	100.0
0°-180°	12583.0	100.0

Coefficient of Utilization



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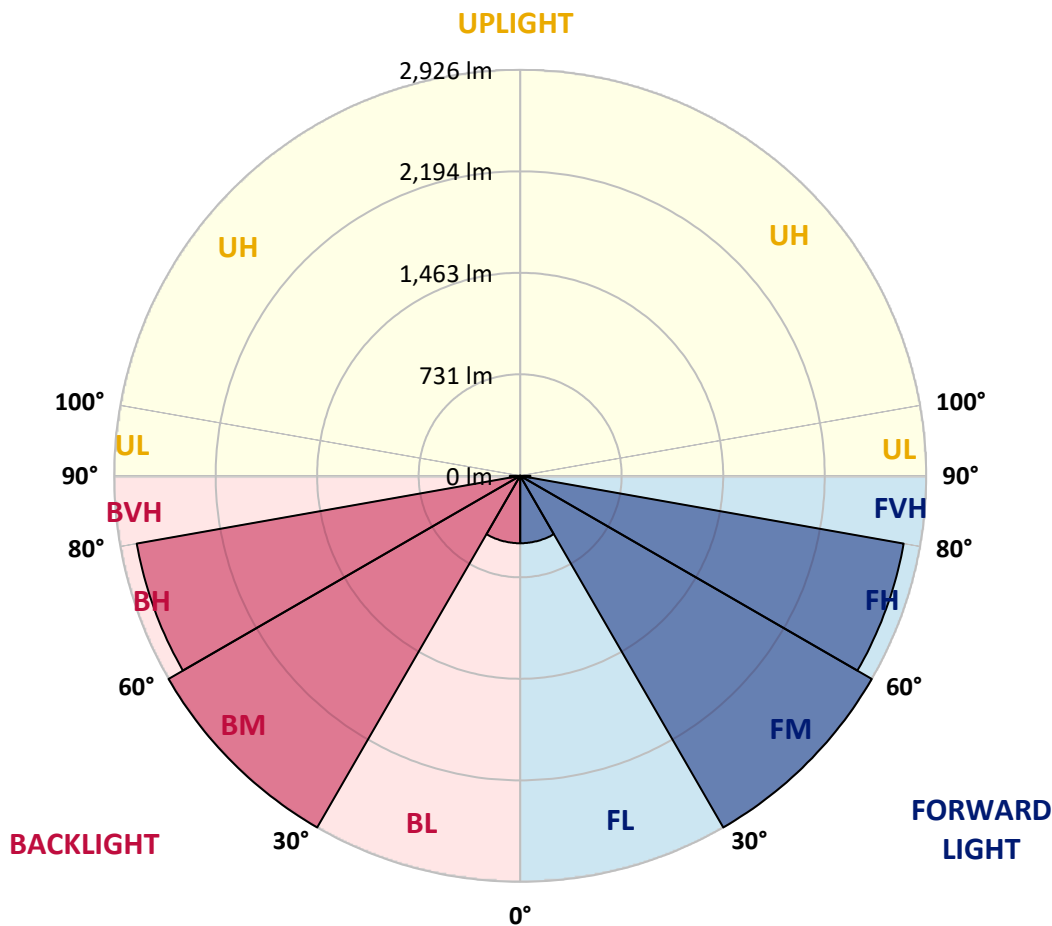
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	485.9	3.9			
FM	(30°-60°)	2925.7	23.3			
FH	(60°-80°)	2806.1	22.3			G2/5000
FVH	(80°-90°)	73.8	0.6			G1/100
BL	(0°-30°)	485.9	3.9	B1/500		
BM	(30°-60°)	2925.7	23.3	B3/5000		
BH	(60°-80°)	2806.1	22.3	B4/5000		G2/5000
BVH	(80°-90°)	73.8	0.6			G1/100
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°	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2
2.5°	888.8	888.8	886.5	886.5	881.8	879.5	877.2	877.2	874.8	874.8	872.5
5°	893.5	893.5	893.5	891.2	888.8	886.5	881.8	877.2	874.8	872.5	870.1
7.5°	895.9	895.9	893.5	893.5	891.2	888.8	881.8	874.8	872.5	870.1	870.1
10°	914.6	912.2	909.9	905.2	905.2	905.2	895.9	888.8	886.5	886.5	886.5
12.5°	959.0	956.7	952.0	945.0	945.0	947.3	933.3	923.9	923.9	921.6	921.6
15°	1024.5	1022.2	1017.5	1005.8	1003.5	1008.1	987.1	977.7	977.7	977.7	975.4
17.5°	1097.0	1092.3	1085.3	1076.0	1076.0	1076.0	1054.9	1043.2	1036.2	1036.2	1033.9
20°	1157.8	1155.5	1155.5	1153.2	1160.2	1160.2	1132.1	1113.4	1097.0	1087.7	1085.3
22.5°	1211.6	1209.3	1214.0	1223.3	1237.4	1242.0	1209.3	1181.2	1155.5	1136.8	1132.1
25°	1284.2	1281.8	1279.5	1293.5	1316.9	1323.9	1288.8	1253.7	1228.0	1218.7	1214.0
27.5°	1361.3	1363.7	1366.0	1380.1	1398.8	1410.5	1375.4	1342.6	1321.6	1307.5	1302.9
30°	1447.9	1452.6	1459.6	1480.6	1494.7	1499.3	1468.9	1445.5	1426.8	1415.1	1408.1
32.5°	1557.8	1567.2	1576.5	1595.3	1602.3	1597.6	1583.6	1567.2	1553.1	1536.8	1534.4
35°	1721.6	1730.9	1728.6	1735.6	1737.9	1733.3	1726.2	1716.9	1709.9	1688.8	1686.5
37.5°	1927.4	1936.8	1922.7	1915.7	1899.3	1901.7	1899.3	1906.3	1908.7	1887.6	1885.3
40°	2135.6	2144.9	2126.2	2107.5	2091.1	2084.1	2095.8	2119.2	2119.2	2105.2	2105.2
42.5°	2357.8	2364.8	2334.4	2311.0	2290.0	2285.3	2292.3	2320.4	2327.4	2325.0	2325.0
45°	2580.0	2575.3	2535.6	2512.2	2493.5	2481.8	2484.1	2505.2	2519.2	2526.2	2526.2
47.5°	2750.8	2743.7	2711.0	2692.3	2680.6	2664.2	2664.2	2675.9	2682.9	2685.3	2685.3
50°	2886.4	2879.4	2846.7	2844.3	2844.3	2837.3	2830.3	2827.9	2823.3	2825.6	2825.6
52.5°	3003.4	2994.0	2970.6	2975.3	2996.4	3001.0	2991.7	2973.0	2954.3	2947.2	2949.6
55°	3129.7	3115.7	3096.9	3111.0	3153.1	3171.8	3157.8	3120.3	3087.6	3066.5	3066.5
57.5°	3230.3	3213.9	3213.9	3253.7	3330.8	3368.3	3337.9	3267.7	3211.6	3188.2	3190.5
60°	3160.1	3146.1	3202.2	3377.6	3522.6	3585.8	3534.3	3410.4	3319.1	3291.1	3295.8
62.5°	3022.1	3012.7	3082.9	3354.2	3695.7	3826.7	3749.5	3571.8	3436.1	3403.4	3403.4
65°	2818.6	2816.2	2914.5	3249.0	3735.5	4058.3	3992.8	3747.2	3571.8	3527.3	3536.7
67.5°	2608.1	2608.1	2697.0	3068.9	3688.7	4156.5	4208.0	3906.3	3637.3	3527.3	3529.7
70°	2236.2	2275.9	2512.2	2902.8	3518.0	4086.4	4296.9	3794.0	3351.9	3157.8	3150.7
72.5°	1473.6	1525.1	1995.2	2612.7	3349.6	3831.4	3878.2	3333.2	2783.5	2556.6	2544.9
75°	888.8	933.3	1293.5	2039.7	2944.9	3085.2	2879.4	2612.7	2079.4	1901.7	1901.7
77.5°	262.0	292.4	596.5	1293.5	2037.3	2028.0	1775.4	1539.1	1230.4	1045.6	1059.6
80°	154.4	159.1	194.1	589.4	844.4	888.8	685.3	428.1	428.1	318.1	308.8
82.5°	119.3	119.3	124.0	147.4	203.5	226.9	173.1	147.4	168.4	142.7	135.7
85°	84.2	84.2	84.2	86.5	88.9	91.2	95.9	98.2	107.6	88.9	84.2
87.5°	25.7	28.1	30.4	35.1	42.1	44.4	46.8	42.1	42.1	39.8	37.4
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)