

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: P835801

Luminaire Tested: **ARCH3-100-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835801
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: ARCH3-100-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 805mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13619 lumens
Efficiency: N/A
Efficacy: 132.7 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): 102.6
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

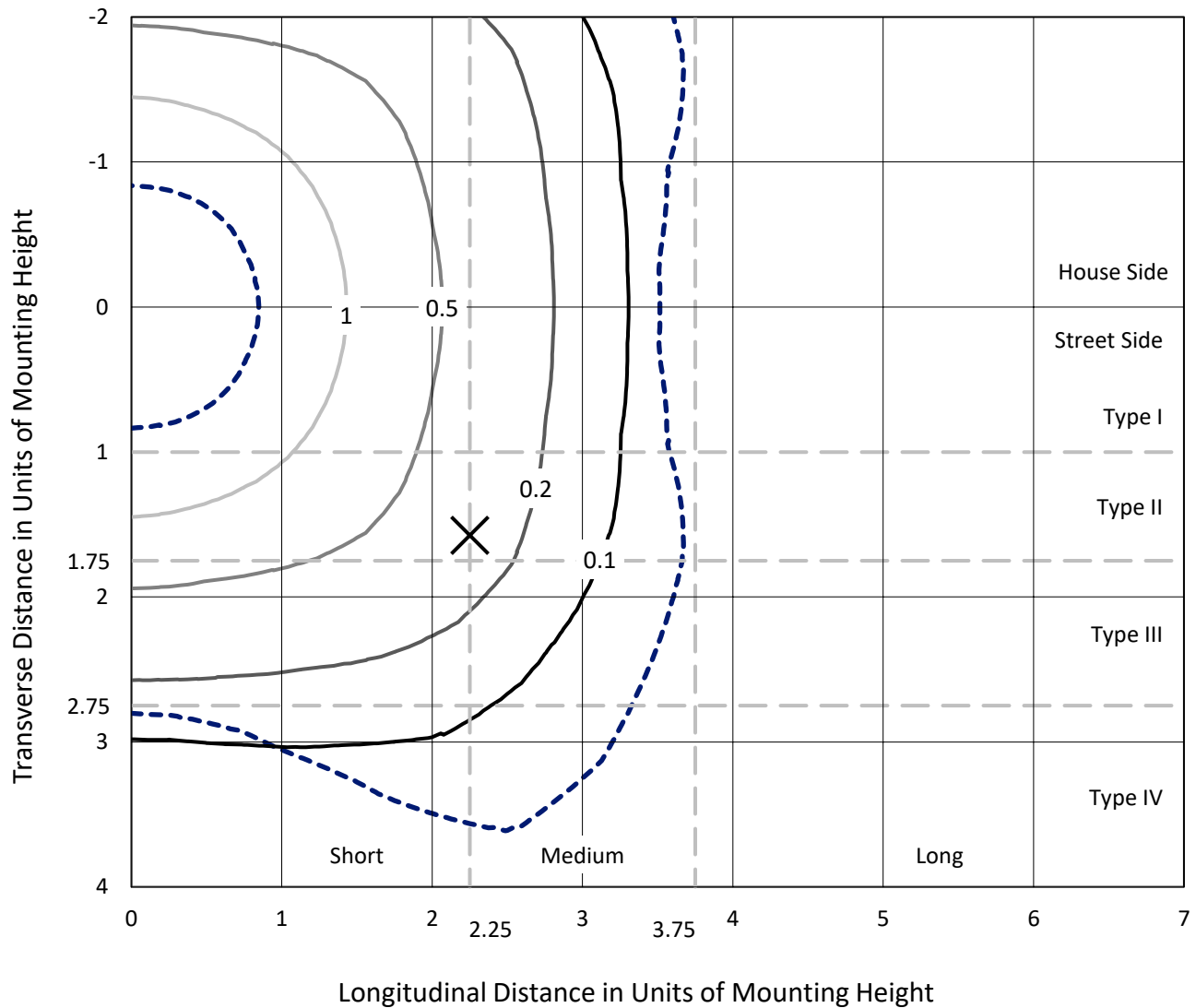


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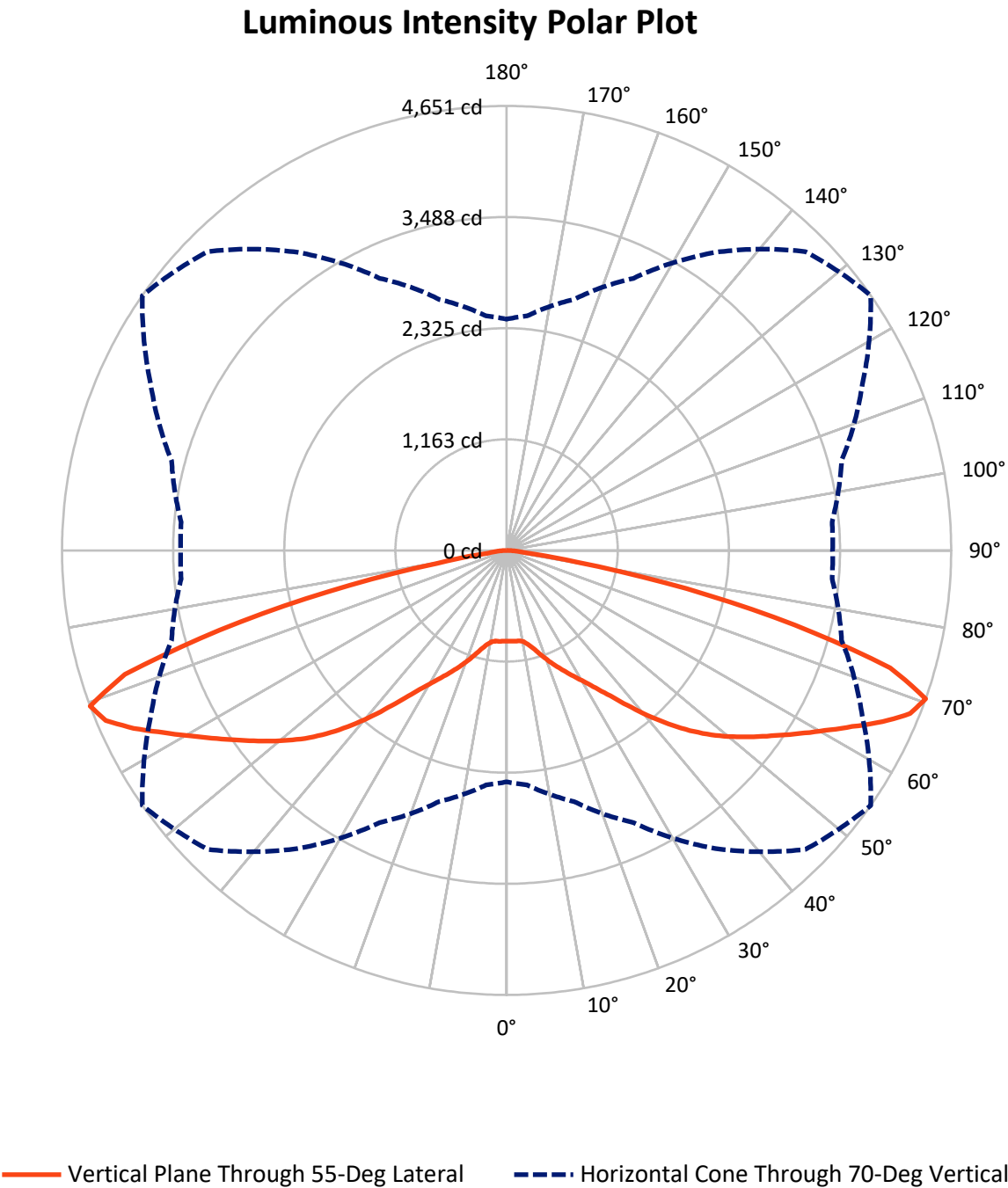
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type V - Medium - N/A

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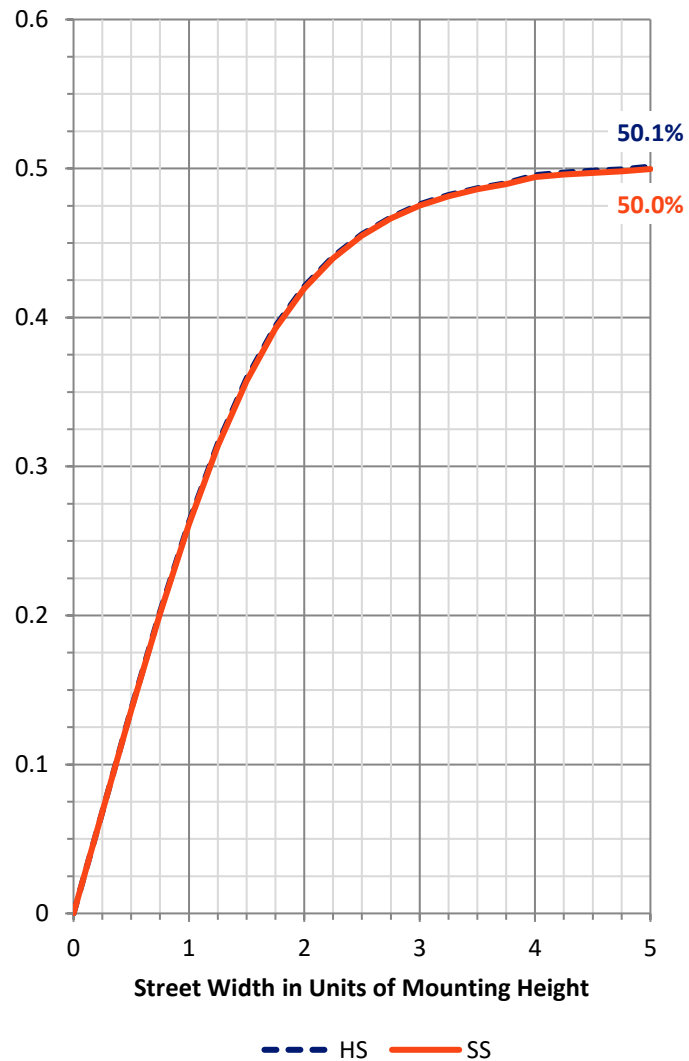
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6809.5	0.0	6809.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6809.5	0.0	6809.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13619.0	0.0	13619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	0.7
10°-20°	311.9	2.3
20°-30°	648.1	4.8
30°-40°	1197.1	8.8
40°-50°	2103.0	15.4
50°-60°	3033.1	22.3
60°-70°	3712.1	27.3
70°-80°	2362.1	17.3
80°-90°	159.8	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°	13619.0	100.0
0°-180°	13619.0	100.0

Coefficient of Utilization



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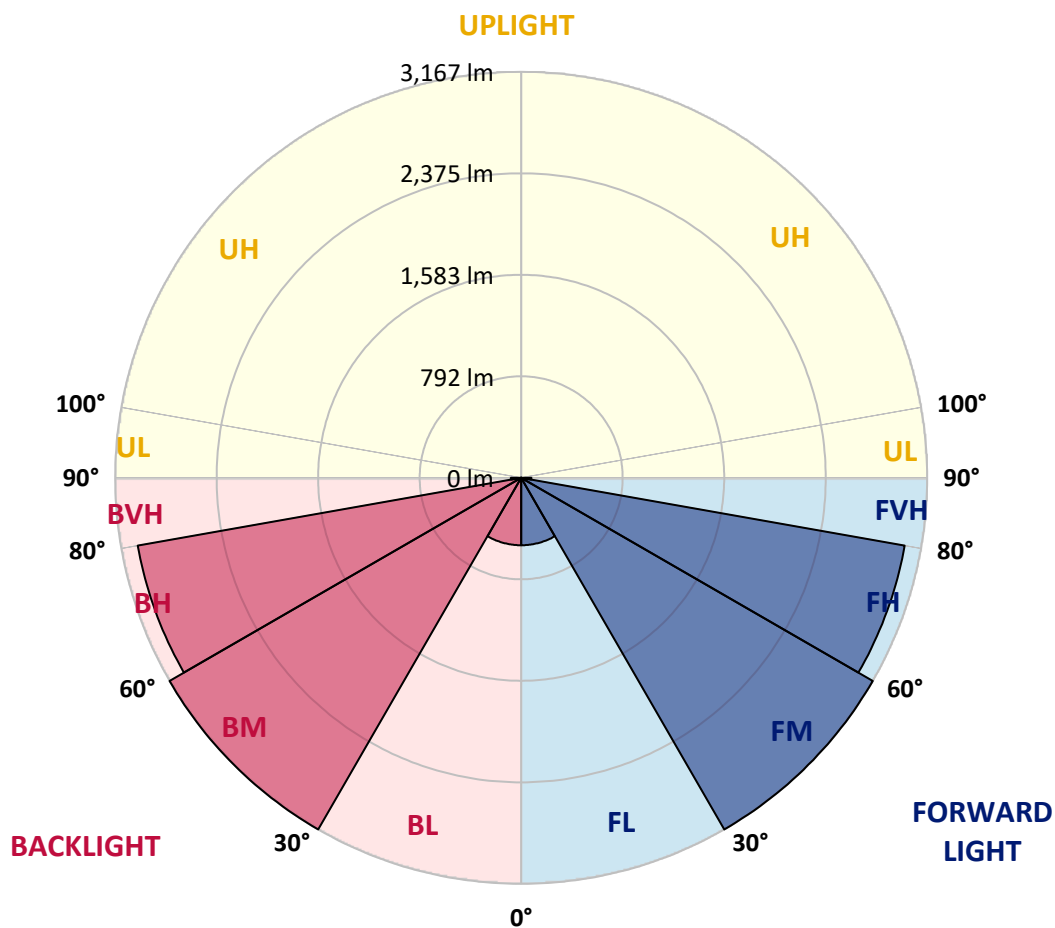
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.9	3.9			
FM	(30°-60°)	3166.6	23.3			
FH	(60°-80°)	3037.1	22.3			G2/5000
FVH	(80°-90°)	79.9	0.6			G1/100
BL	(0°-30°)	525.9	3.9	B2/1000		
BM	(30°-60°)	3166.6	23.3	B3/5000		
BH	(60°-80°)	3037.1	22.3	B4/5000		G2/5000
BVH	(80°-90°)	79.9	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°	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4
2.5°	962.0	962.0	959.5	959.5	954.4	951.9	949.4	949.4	946.8	946.8	944.3
5°	967.1	967.1	967.1	964.6	962.0	959.5	954.4	949.4	946.8	944.3	941.8
7.5°	969.6	969.6	967.1	967.1	964.6	962.0	954.4	946.8	944.3	941.8	941.8
10°	989.9	987.3	984.8	979.8	979.8	979.8	969.6	962.0	959.5	959.5	959.5
12.5°	1038.0	1035.4	1030.4	1022.8	1022.8	1025.3	1010.1	1000.0	1000.0	997.5	997.5
15°	1108.9	1106.3	1101.3	1088.6	1086.1	1091.1	1068.4	1058.2	1058.2	1058.2	1055.7
17.5°	1187.3	1182.3	1174.7	1164.6	1164.6	1164.6	1141.8	1129.1	1121.5	1121.5	1119.0
20°	1253.2	1250.6	1250.6	1248.1	1255.7	1255.7	1225.3	1205.1	1187.3	1177.2	1174.7
22.5°	1311.4	1308.9	1313.9	1324.1	1339.2	1344.3	1308.9	1278.5	1250.6	1230.4	1225.3
25°	1389.9	1387.4	1384.8	1400.0	1425.3	1432.9	1394.9	1357.0	1329.1	1319.0	1313.9
27.5°	1473.4	1476.0	1478.5	1493.7	1513.9	1526.6	1488.6	1453.2	1430.4	1415.2	1410.1
30°	1567.1	1572.2	1579.8	1602.5	1617.7	1622.8	1589.9	1564.6	1544.3	1531.7	1524.1
32.5°	1686.1	1696.2	1706.3	1726.6	1734.2	1729.1	1713.9	1696.2	1681.0	1663.3	1660.8
35°	1863.3	1873.4	1870.9	1878.5	1881.0	1876.0	1868.4	1858.2	1850.6	1827.9	1825.3
37.5°	2086.1	2096.2	2081.0	2073.4	2055.7	2058.2	2055.7	2063.3	2065.8	2043.1	2040.5
40°	2311.4	2321.5	2301.3	2281.0	2263.3	2255.7	2268.4	2293.7	2293.7	2278.5	2278.5
42.5°	2551.9	2559.5	2526.6	2501.3	2478.5	2473.4	2481.0	2511.4	2519.0	2516.5	2516.5
45°	2792.4	2787.4	2744.3	2719.0	2698.8	2686.1	2688.6	2711.4	2726.6	2734.2	2734.2
47.5°	2977.2	2969.6	2934.2	2913.9	2901.3	2883.6	2883.6	2896.2	2903.8	2906.3	2906.3
50°	3124.1	3116.5	3081.0	3078.5	3078.5	3070.9	3063.3	3060.8	3055.7	3058.2	3058.2
52.5°	3250.7	3240.5	3215.2	3220.3	3243.1	3248.1	3238.0	3217.7	3197.5	3189.9	3192.4
55°	3387.4	3372.2	3351.9	3367.1	3412.7	3432.9	3417.7	3377.2	3341.8	3319.0	3319.0
57.5°	3496.2	3478.5	3478.5	3521.5	3605.1	3645.6	3612.7	3536.7	3476.0	3450.7	3453.2
60°	3420.3	3405.1	3465.8	3655.7	3812.7	3881.0	3825.3	3691.2	3592.4	3562.0	3567.1
62.5°	3270.9	3260.8	3336.7	3630.4	4000.0	4141.8	4058.3	3865.8	3719.0	3683.6	3683.6
65°	3050.7	3048.1	3154.4	3516.5	4043.1	4392.4	4321.5	4055.7	3865.8	3817.7	3827.9
67.5°	2822.8	2822.8	2919.0	3321.5	3992.4	4498.8	4554.5	4227.9	3936.7	3817.7	3820.3
70°	2420.3	2463.3	2719.0	3141.8	3807.6	4422.8	4650.7	4106.4	3627.9	3417.7	3410.1
72.5°	1594.9	1650.6	2159.5	2827.9	3625.3	4146.9	4197.5	3607.6	3012.7	2767.1	2754.4
75°	962.0	1010.1	1400.0	2207.6	3187.4	3339.3	3116.5	2827.9	2250.6	2058.2	2058.2
77.5°	283.5	316.5	645.6	1400.0	2205.1	2194.9	1921.5	1665.8	1331.7	1131.7	1146.8
80°	167.1	172.2	210.1	638.0	913.9	962.0	741.8	463.3	463.3	344.3	334.2
82.5°	129.1	129.1	134.2	159.5	220.3	245.6	187.3	159.5	182.3	154.4	146.8
85°	91.1	91.1	91.1	93.7	96.2	98.7	103.8	106.3	116.5	96.2	91.1
87.5°	27.8	30.4	32.9	38.0	45.6	48.1	50.6	45.6	45.6	43.0	40.5
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)