

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: P799407

Luminaire Tested: **ARCH2-110-740-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13799 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 109.5
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

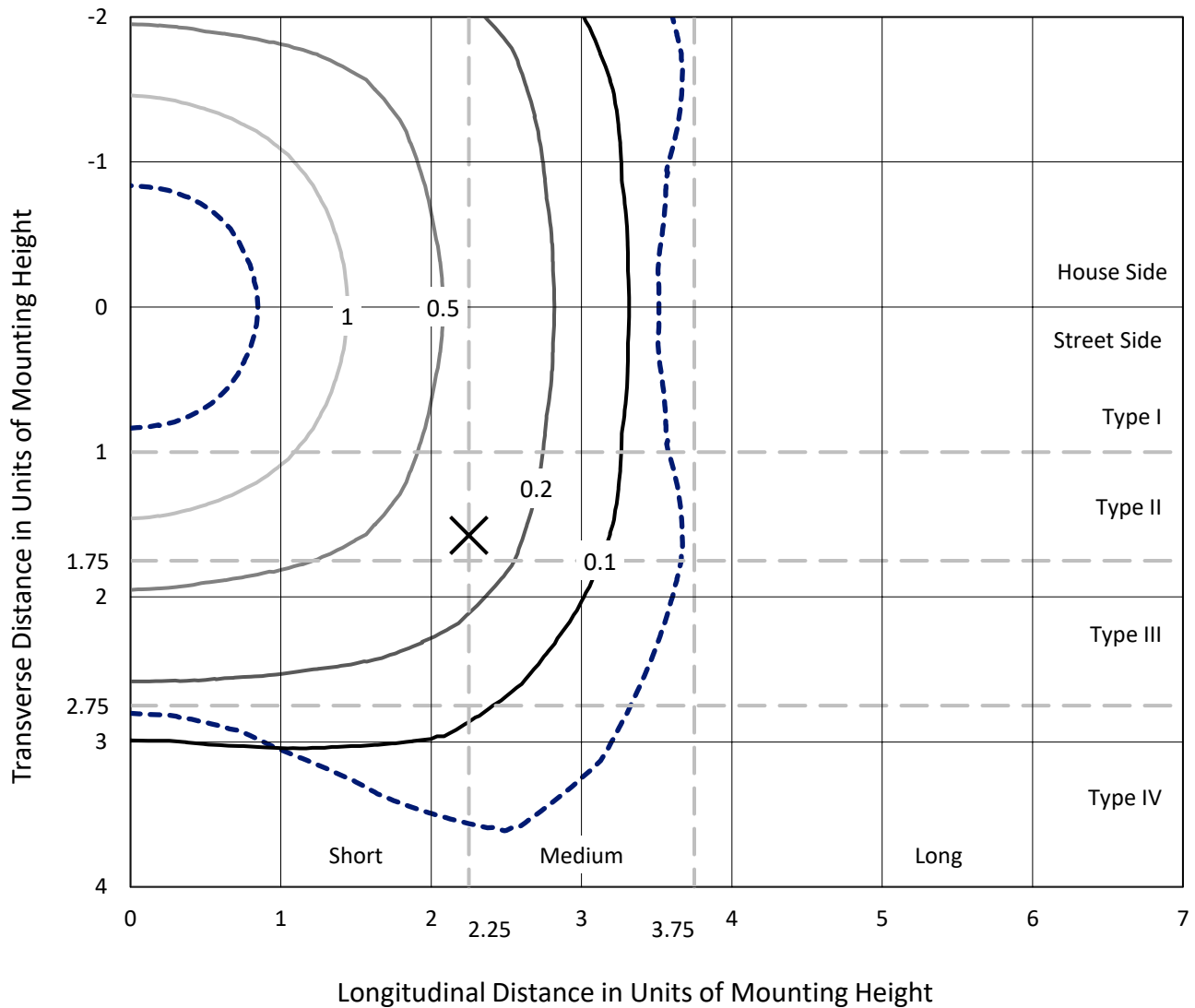


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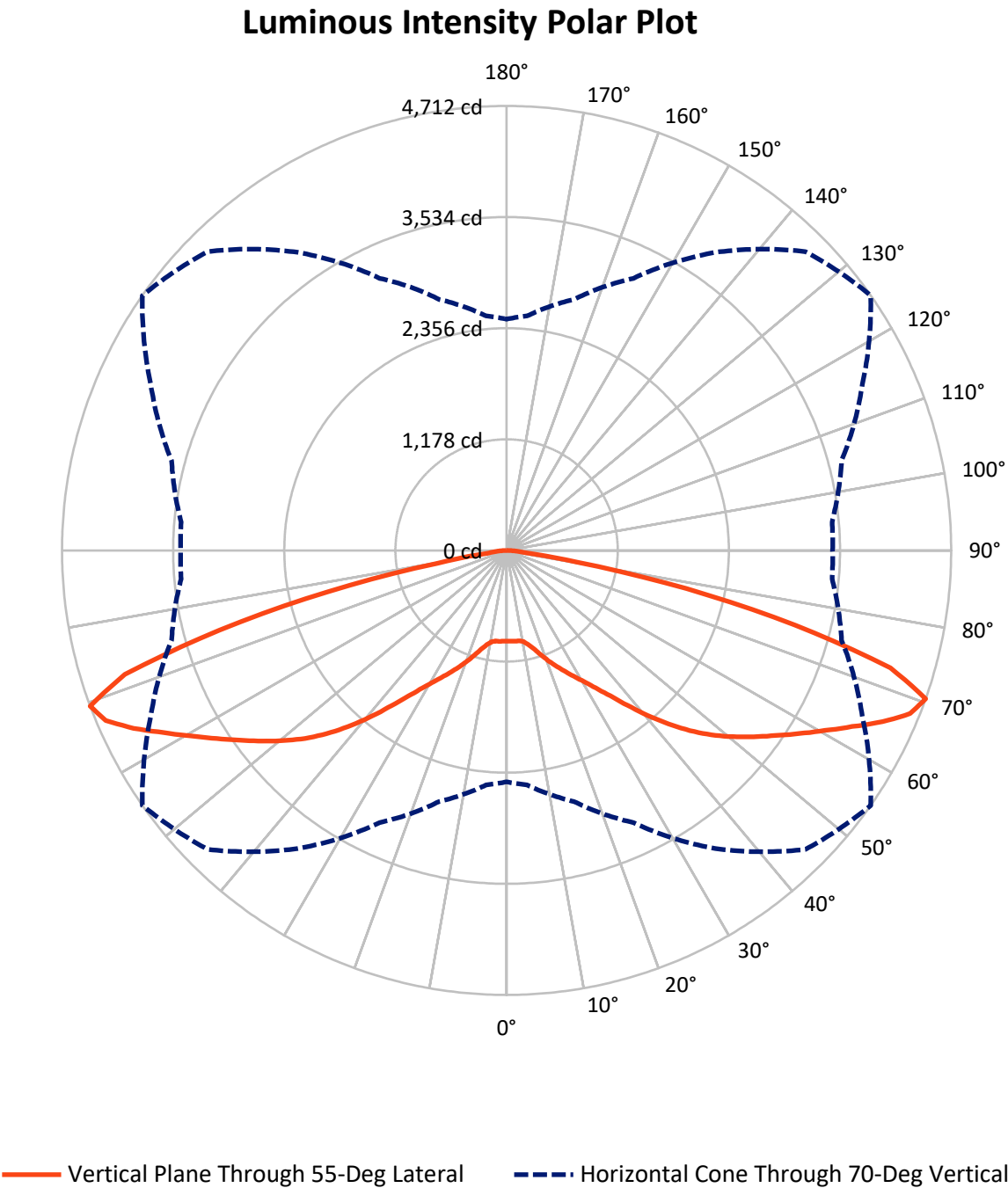
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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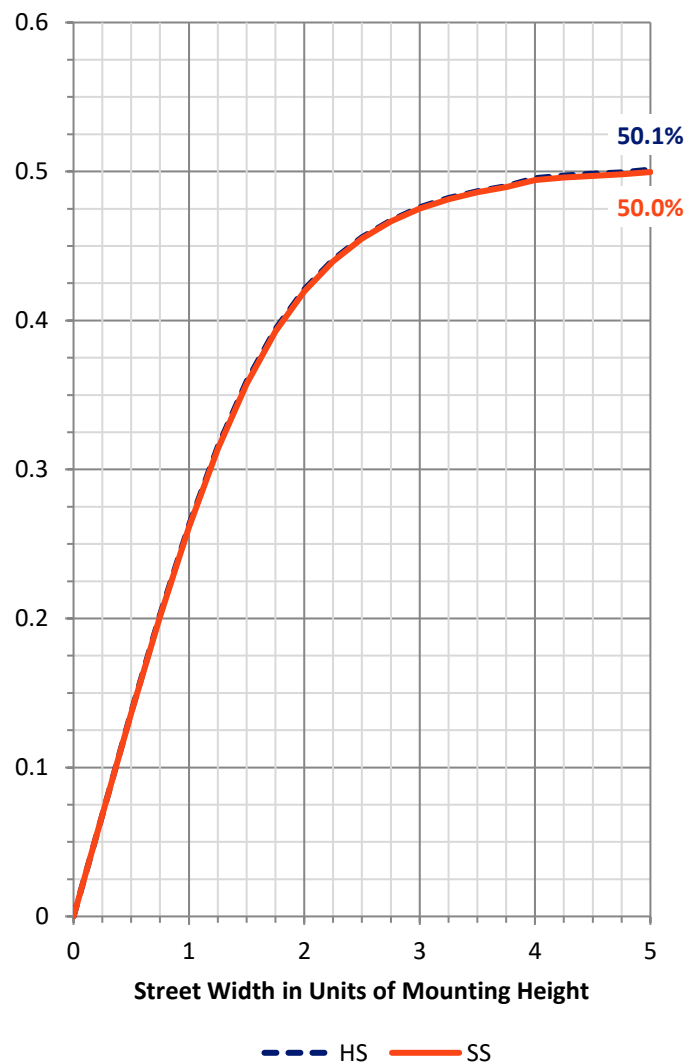
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6899.5	0.0	6899.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6899.5	0.0	6899.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13799.0	0.0	13799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	0.7
10°-20°	316.1	2.3
20°-30°	656.7	4.8
30°-40°	1212.9	8.8
40°-50°	2130.8	15.4
50°-60°	3073.2	22.3
60°-70°	3761.2	27.3
70°-80°	2393.3	17.3
80°-90°	161.9	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°	13799.0	100.0
0°-180°	13799.0	100.0

Coefficient of Utilization



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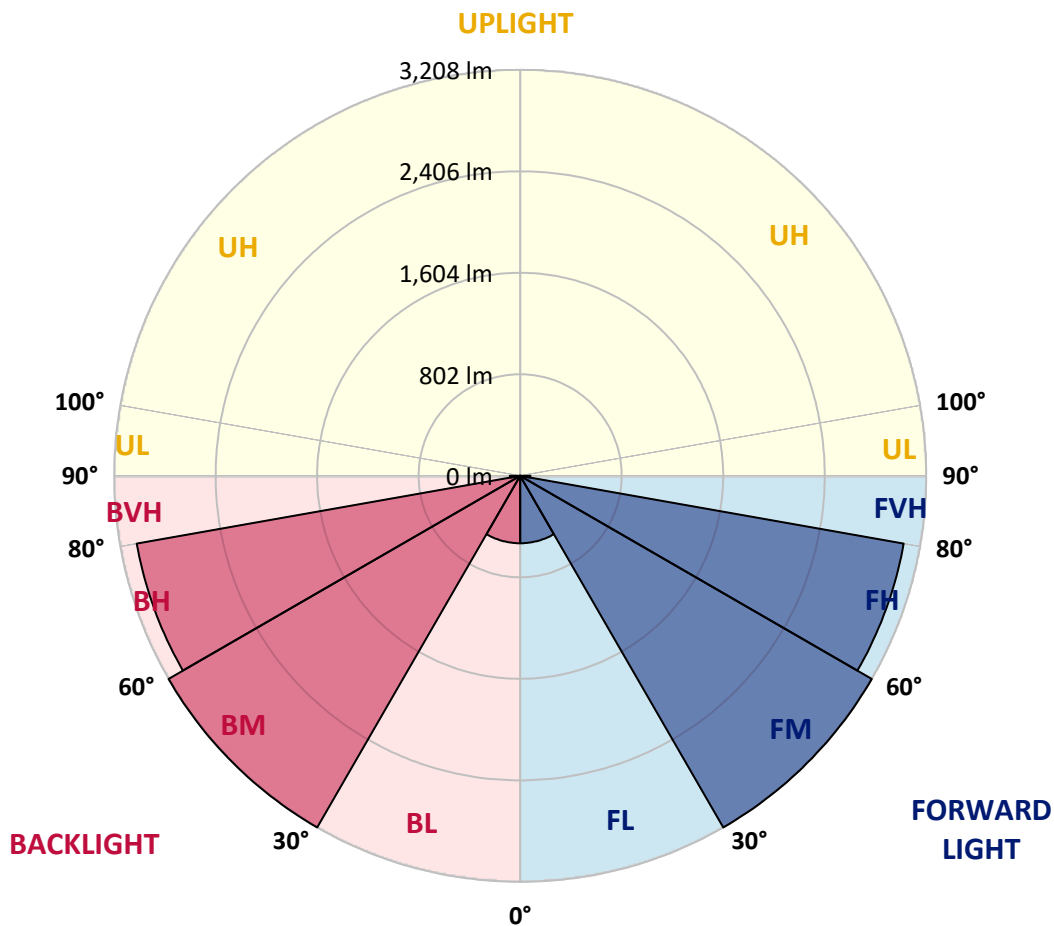
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	532.8	3.9			
FM	(30°-60°)	3208.4	23.3			
FH	(60°-80°)	3077.3	22.3			G2/5000
FVH	(80°-90°)	81.0	0.6			G1/100
BL	(0°-30°)	532.8	3.9	B2/1000		
BM	(30°-60°)	3208.4	23.3	B3/5000		
BH	(60°-80°)	3077.3	22.3	B4/5000		G2/5000
BVH	(80°-90°)	81.0	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°	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9	961.9
2.5°	974.7	974.7	972.2	972.2	967.1	964.5	961.9	961.9	959.4	959.4	956.8
5°	979.9	979.9	979.9	977.3	974.7	972.2	967.1	961.9	959.4	956.8	954.2
7.5°	982.4	982.4	979.9	979.9	977.3	974.7	967.1	959.4	956.8	954.2	954.2
10°	1003.0	1000.4	997.8	992.7	992.7	992.7	982.4	974.7	972.2	972.2	972.2
12.5°	1051.7	1049.1	1044.0	1036.3	1036.3	1038.9	1023.5	1013.2	1013.2	1010.7	1010.7
15°	1123.5	1121.0	1115.8	1103.0	1100.4	1105.6	1082.5	1072.2	1072.2	1072.2	1069.7
17.5°	1203.0	1197.9	1190.2	1180.0	1180.0	1180.0	1156.9	1144.0	1136.3	1136.3	1133.8
20°	1269.7	1267.2	1267.2	1264.6	1272.3	1272.3	1241.5	1221.0	1203.0	1192.8	1190.2
22.5°	1328.7	1326.2	1331.3	1341.6	1356.9	1362.1	1326.2	1295.4	1267.2	1246.6	1241.5
25°	1408.3	1405.7	1403.1	1418.5	1444.2	1451.9	1413.4	1374.9	1346.7	1336.4	1331.3
27.5°	1492.9	1495.5	1498.0	1513.4	1533.9	1546.8	1508.3	1472.4	1449.3	1433.9	1428.8
30°	1587.8	1592.9	1600.6	1623.7	1639.1	1644.2	1610.9	1585.2	1564.7	1551.9	1544.2
32.5°	1708.4	1718.6	1728.9	1749.4	1757.1	1752.0	1736.6	1718.6	1703.2	1685.3	1682.7
35°	1887.9	1898.2	1895.6	1903.3	1905.9	1900.8	1893.1	1882.8	1875.1	1852.0	1849.5
37.5°	2113.7	2123.9	2108.5	2100.8	2082.9	2085.4	2082.9	2090.6	2093.1	2070.1	2067.5
40°	2342.0	2352.2	2331.7	2311.2	2293.2	2285.5	2298.3	2324.0	2324.0	2308.6	2308.6
42.5°	2585.6	2593.3	2560.0	2534.3	2511.3	2506.1	2513.8	2544.6	2552.3	2549.7	2549.7
45°	2829.3	2824.2	2780.6	2754.9	2734.4	2721.6	2724.2	2747.2	2762.6	2770.3	2770.3
47.5°	3016.6	3008.9	2973.0	2952.5	2939.6	2921.7	2921.7	2934.5	2942.2	2944.8	2944.8
50°	3165.4	3157.7	3121.8	3119.2	3119.2	3111.5	3103.8	3101.2	3096.1	3098.7	3098.7
52.5°	3293.6	3283.4	3257.7	3262.8	3285.9	3291.1	3280.8	3260.3	3239.7	3232.1	3234.6
55°	3432.1	3416.7	3396.2	3411.6	3457.8	3478.3	3462.9	3421.9	3386.0	3362.9	3362.9
57.5°	3542.4	3524.5	3524.5	3568.1	3652.7	3693.8	3660.4	3583.5	3521.9	3496.3	3498.8
60°	3465.5	3450.1	3511.7	3704.0	3863.1	3932.3	3875.9	3739.9	3639.9	3609.1	3614.3
62.5°	3314.1	3303.9	3380.8	3678.4	4052.9	4196.5	4111.9	3916.9	3768.2	3732.3	3732.3
65°	3091.0	3088.4	3196.1	3563.0	4096.5	4450.5	4378.7	4109.3	3916.9	3868.2	3878.5
67.5°	2860.1	2860.1	2957.6	3365.4	4045.2	4558.2	4614.7	4283.8	3988.8	3868.2	3870.8
70°	2452.3	2495.9	2754.9	3183.3	3857.9	4481.3	4712.1	4160.6	3675.8	3462.9	3455.2
72.5°	1616.0	1672.5	2188.0	2865.2	3673.3	4201.7	4253.0	3655.3	3052.5	2803.7	2790.9
75°	974.7	1023.5	1418.5	2236.8	3229.5	3383.4	3157.7	2865.2	2280.4	2085.4	2085.4
77.5°	287.3	320.6	654.1	1418.5	2234.2	2224.0	1946.9	1687.8	1349.3	1146.6	1162.0
80°	169.3	174.4	212.9	646.4	926.0	974.7	751.6	469.4	469.4	348.9	338.6
82.5°	130.8	130.8	136.0	161.6	223.2	248.8	189.8	161.6	184.7	156.5	148.8
85°	92.3	92.3	92.3	94.9	97.5	100.0	105.2	107.7	118.0	97.5	92.3
87.5°	28.2	30.8	33.3	38.5	46.2	48.7	51.3	46.2	46.2	43.6	41.0
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)