

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: P800303

Luminaire Tested: **ARCH2-90-740-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800303
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: ARCH2-90-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12503 lumens
Efficiency: N/A
Efficacy: 133.4 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

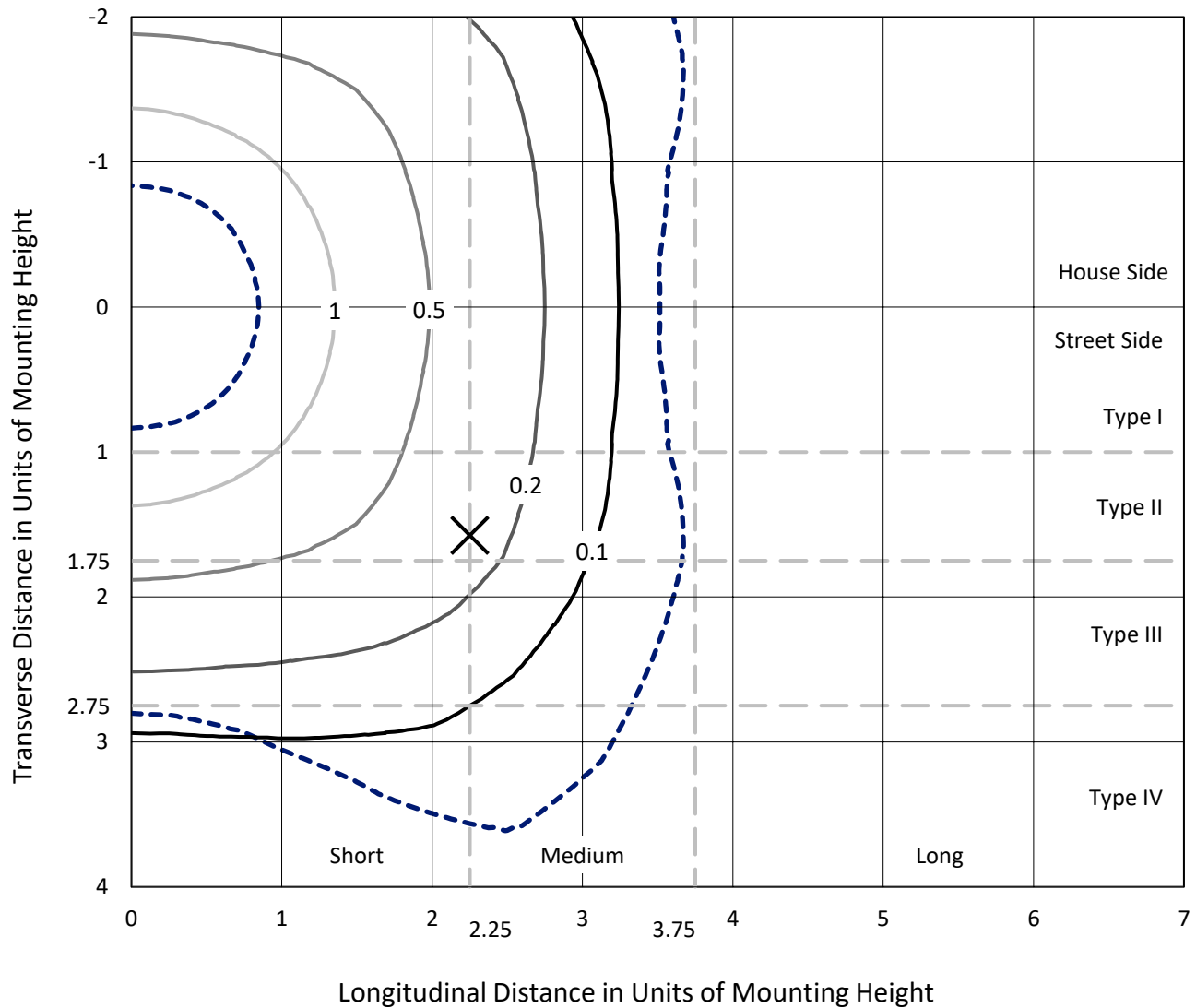
Input Watts (W): 93.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

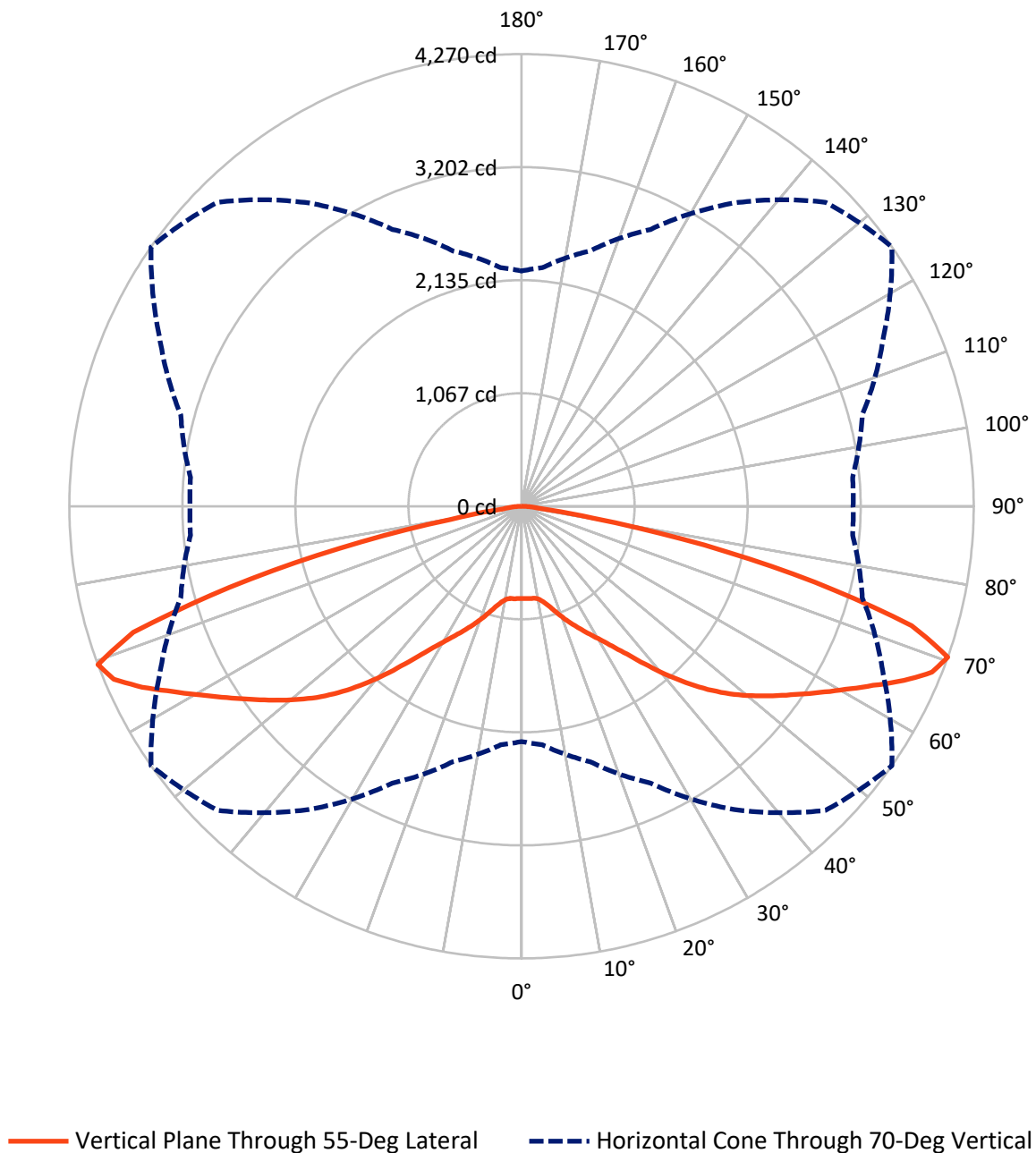


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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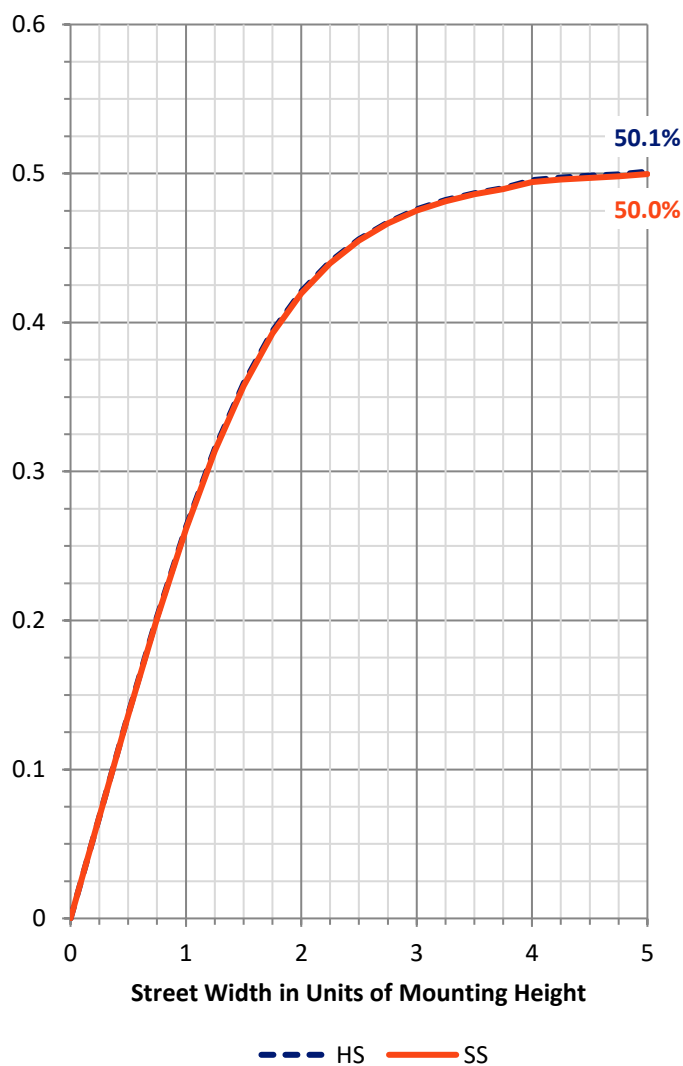
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6251.5	0.0	6251.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6251.5	0.0	6251.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12503.0	0.0	12503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	0.7
10°-20°	286.4	2.3
20°-30°	595.0	4.8
30°-40°	1099.0	8.8
40°-50°	1930.7	15.4
50°-60°	2784.5	22.3
60°-70°	3408.0	27.3
70°-80°	2168.6	17.3
80°-90°	146.7	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°	12503.0	100.0
0°-180°	12503.0	100.0

Coefficient of Utilization



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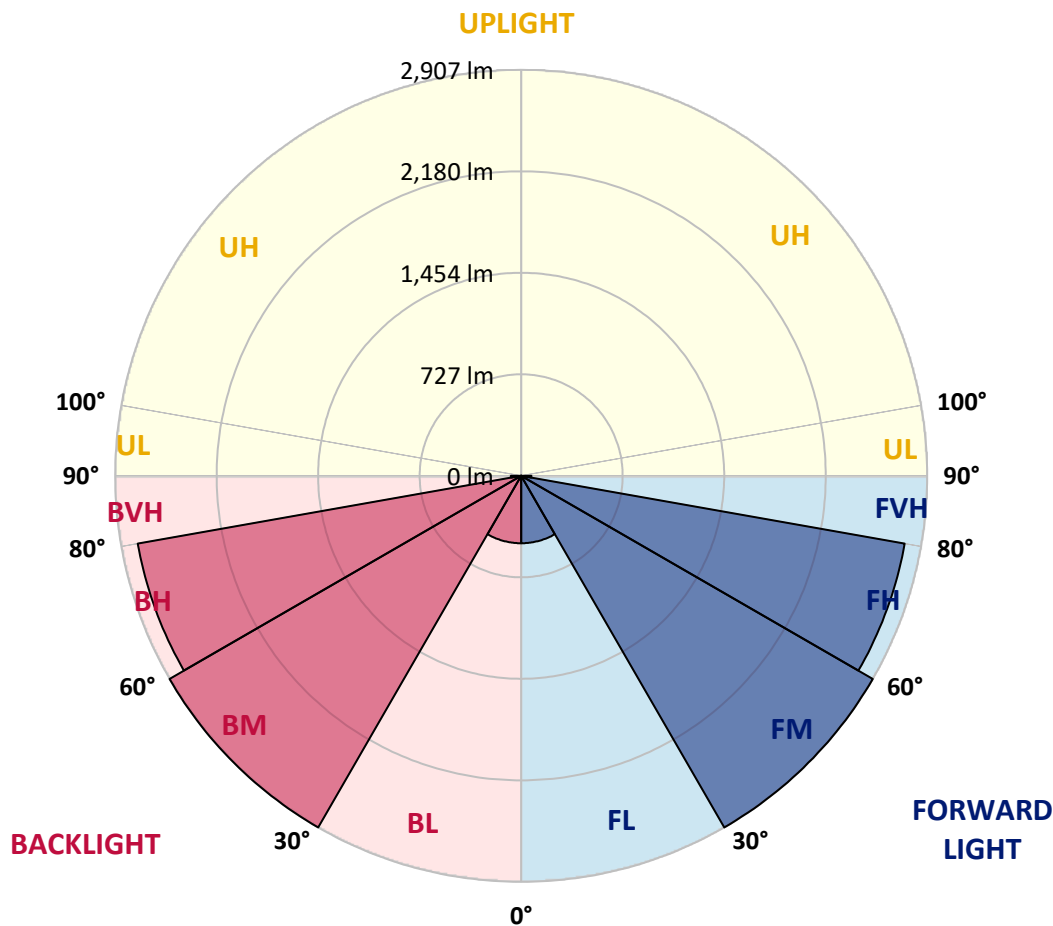
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	482.8	3.9			
FM	(30°-60°)	2907.1	23.3			
FH	(60°-80°)	2788.3	22.3			G2/5000
FVH	(80°-90°)	73.4	0.6			G1/100
BL	(0°-30°)	482.8	3.9	B1/500		
BM	(30°-60°)	2907.1	23.3	B3/5000		
BH	(60°-80°)	2788.3	22.3	B4/5000		G2/5000
BVH	(80°-90°)	73.4	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°	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6	871.6
2.5°	883.2	883.2	880.9	880.9	876.2	873.9	871.6	871.6	869.3	869.3	866.9
5°	887.8	887.8	887.8	885.5	883.2	880.9	876.2	871.6	869.3	866.9	864.6
7.5°	890.2	890.2	887.8	887.8	885.5	883.2	876.2	869.3	866.9	864.6	864.6
10°	908.8	906.4	904.1	899.5	899.5	899.5	890.2	883.2	880.9	880.9	880.9
12.5°	952.9	950.6	946.0	939.0	939.0	941.3	927.4	918.1	918.1	915.7	915.7
15°	1018.0	1015.7	1011.0	999.4	997.1	1001.7	980.8	971.5	971.5	971.5	969.2
17.5°	1090.1	1085.4	1078.4	1069.1	1069.1	1069.1	1048.2	1036.6	1029.6	1029.6	1027.3
20°	1150.5	1148.2	1148.2	1145.8	1152.8	1152.8	1124.9	1106.3	1090.1	1080.8	1078.4
22.5°	1203.9	1201.6	1206.3	1215.6	1229.5	1234.2	1201.6	1173.7	1148.2	1129.6	1124.9
25°	1276.0	1273.7	1271.3	1285.3	1308.5	1315.5	1280.6	1245.8	1220.2	1210.9	1206.3
27.5°	1352.7	1355.0	1357.3	1371.3	1389.9	1401.5	1366.6	1334.1	1313.2	1299.2	1294.6
30°	1438.7	1443.3	1450.3	1471.2	1485.2	1489.8	1459.6	1436.4	1417.8	1406.1	1399.2
32.5°	1547.9	1557.2	1566.5	1585.1	1592.1	1587.4	1573.5	1557.2	1543.3	1527.0	1524.7
35°	1710.6	1719.9	1717.6	1724.6	1726.9	1722.2	1715.3	1706.0	1699.0	1678.1	1675.8
37.5°	1915.1	1924.4	1910.5	1903.5	1887.3	1889.6	1887.3	1894.2	1896.6	1875.6	1873.3
40°	2122.0	2131.3	2112.7	2094.1	2077.8	2070.9	2082.5	2105.7	2105.7	2091.8	2091.8
42.5°	2342.8	2349.8	2319.6	2296.3	2275.4	2270.7	2277.7	2305.6	2312.6	2310.3	2310.3
45°	2563.6	2559.0	2519.4	2496.2	2477.6	2466.0	2468.3	2489.2	2503.2	2510.1	2510.1
47.5°	2733.3	2726.3	2693.8	2675.2	2663.5	2647.3	2647.3	2658.9	2665.9	2668.2	2668.2
50°	2868.1	2861.1	2828.6	2826.2	2826.2	2819.3	2812.3	2810.0	2805.3	2807.6	2807.6
52.5°	2984.3	2975.0	2951.7	2956.4	2977.3	2982.0	2972.7	2954.1	2935.5	2928.5	2930.8
55°	3109.8	3095.8	3077.2	3091.2	3133.0	3151.6	3137.7	3100.5	3068.0	3047.0	3047.0
57.5°	3209.7	3193.5	3193.5	3233.0	3309.7	3346.9	3316.6	3246.9	3191.1	3167.9	3170.2
60°	3140.0	3126.1	3181.8	3356.2	3500.3	3563.0	3511.9	3388.7	3298.0	3270.2	3274.8
62.5°	3002.9	2993.6	3063.3	3332.9	3672.2	3802.4	3725.7	3549.1	3414.3	3381.7	3381.7
65°	2800.7	2798.3	2896.0	3228.3	3711.8	4032.5	3967.4	3723.4	3549.1	3504.9	3514.2
67.5°	2591.5	2591.5	2679.8	3049.4	3665.3	4130.1	4181.2	3881.4	3614.1	3504.9	3507.2
70°	2221.9	2261.5	2496.2	2884.3	3495.6	4060.4	4269.6	3769.9	3330.6	3137.7	3130.7
72.5°	1464.2	1515.4	1982.5	2596.1	3328.3	3807.0	3853.5	3312.0	2765.8	2540.4	2528.7
75°	883.2	927.4	1285.3	2026.7	2926.2	3065.6	2861.1	2596.1	2066.2	1889.6	1889.6
77.5°	260.3	290.5	592.7	1285.3	2024.4	2015.1	1764.1	1529.3	1222.5	1038.9	1052.9
80°	153.4	158.0	192.9	585.7	839.0	883.2	681.0	425.3	425.3	316.1	306.8
82.5°	118.5	118.5	123.2	146.4	202.2	225.4	172.0	146.4	167.3	141.8	134.8
85°	83.7	83.7	83.7	86.0	88.3	90.6	95.3	97.6	106.9	88.3	83.7
87.5°	25.6	27.9	30.2	34.9	41.8	44.2	46.5	41.8	41.8	39.5	37.2
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)