

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: P800063

Luminaire Tested: **ARCH2-70-750-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800063
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: ARCH2-70-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10495 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

Input Watts (W): 73.6
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

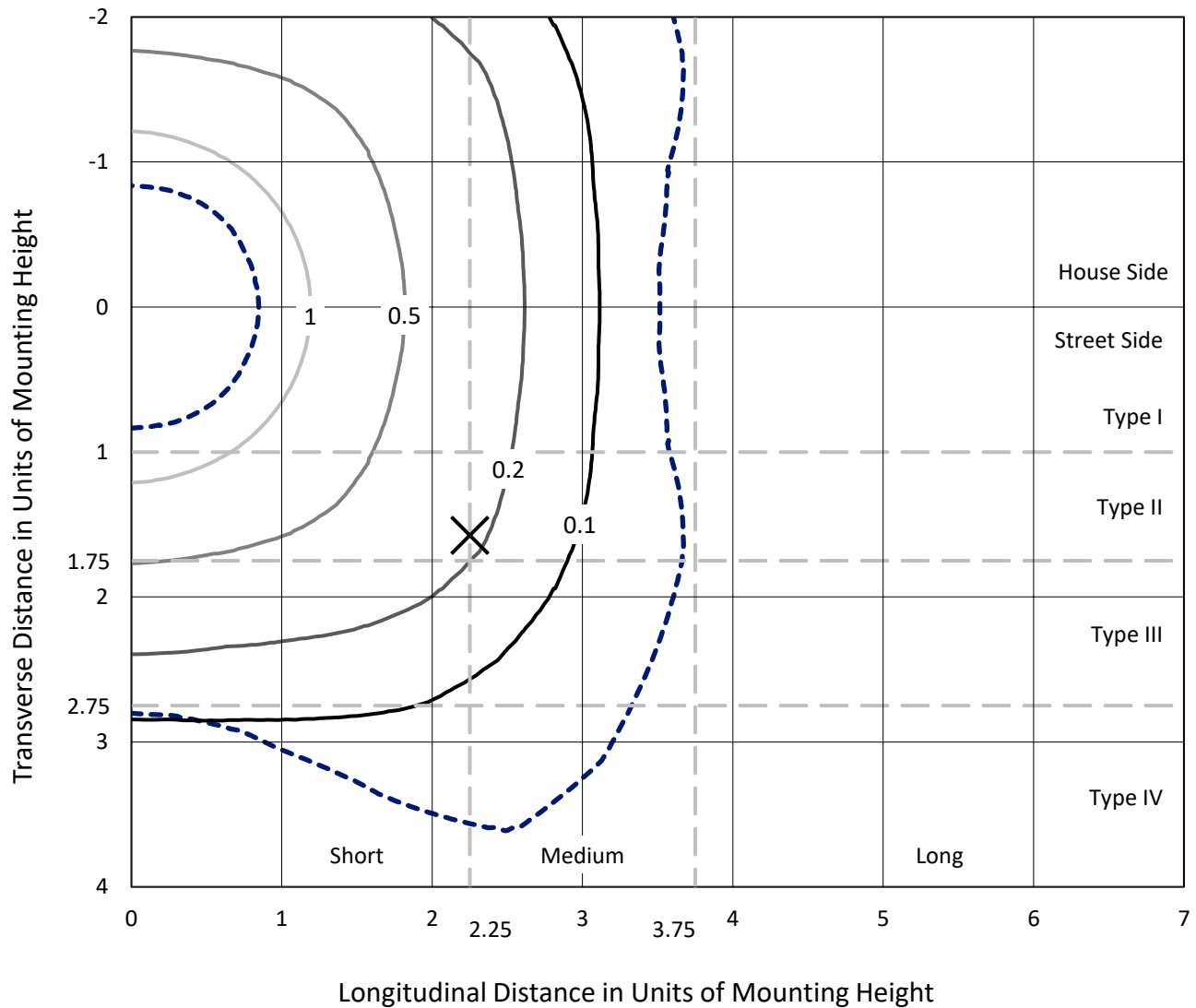


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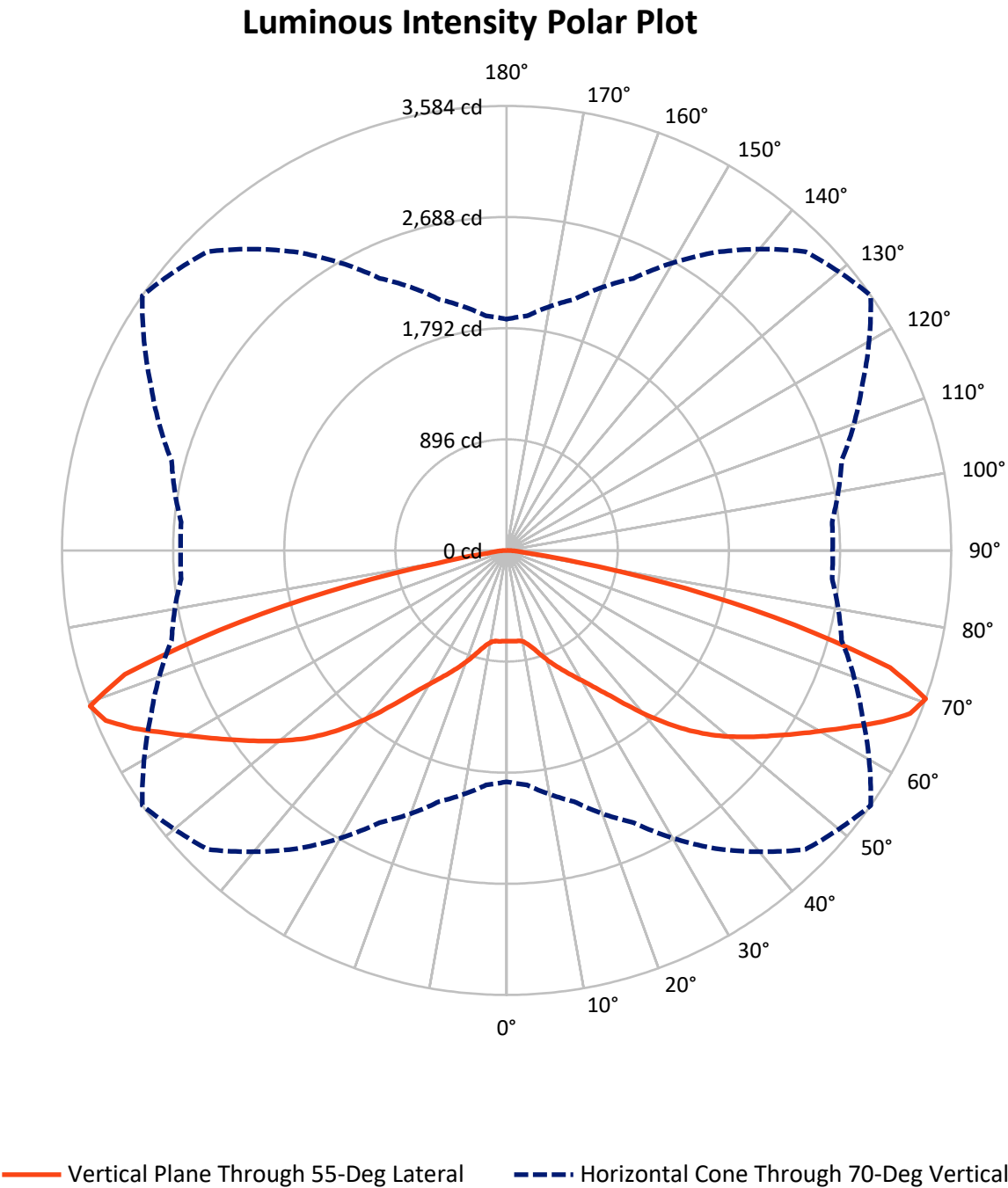
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type V - Medium - N/A

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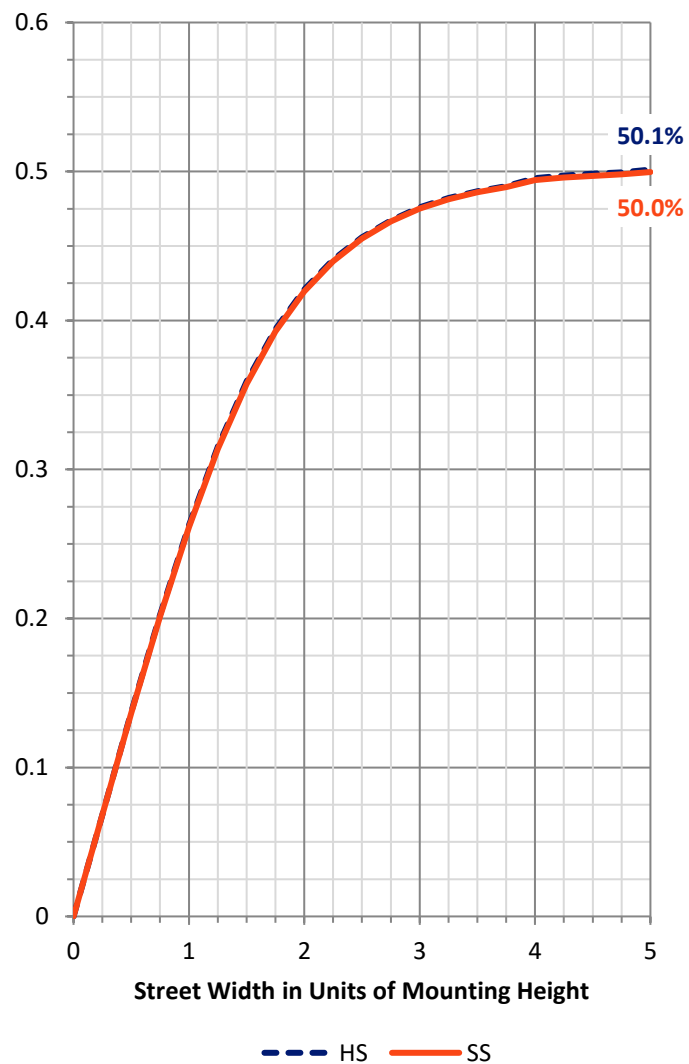
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5247.5	0.0	5247.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5247.5	0.0	5247.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10495.0	0.0	10495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	0.7
10°-20°	240.4	2.3
20°-30°	499.5	4.8
30°-40°	922.5	8.8
40°-50°	1620.6	15.4
50°-60°	2337.3	22.3
60°-70°	2860.6	27.3
70°-80°	1820.3	17.3
80°-90°	123.2	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°	10495.0	100.0
0°-180°	10495.0	100.0

Coefficient of Utilization



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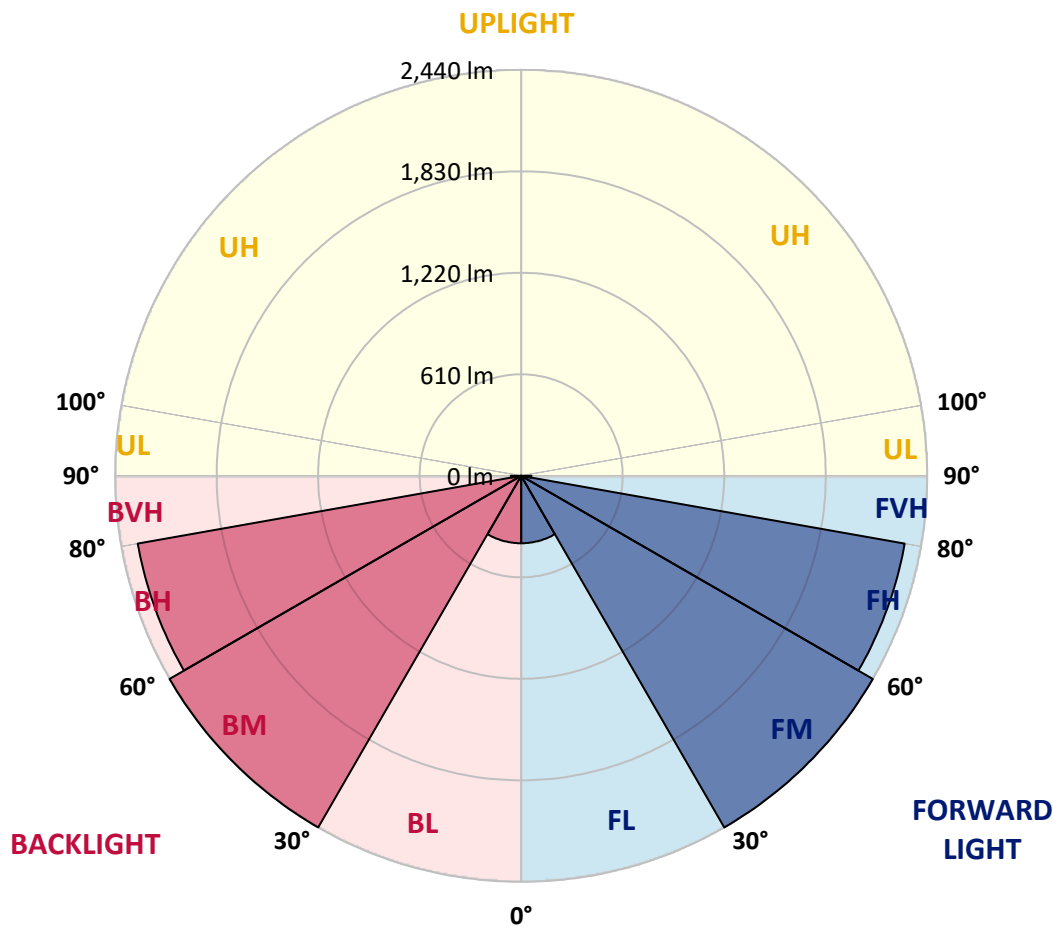
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	405.2	3.9			
FM	(30°-60°)	2440.2	23.3			
FH	(60°-80°)	2340.5	22.3			G2/5000
FVH	(80°-90°)	61.6	0.6			G1/100
BL	(0°-30°)	405.2	3.9	B1/500		
BM	(30°-60°)	2440.2	23.3	B2/2500		
BH	(60°-80°)	2340.5	22.3	B3/2500		G2/5000
BVH	(80°-90°)	61.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6	731.6
2.5°	741.4	741.4	739.4	739.4	735.5	733.6	731.6	731.6	729.6	729.6	727.7
5°	745.3	745.3	745.3	743.3	741.4	739.4	735.5	731.6	729.6	727.7	725.7
7.5°	747.2	747.2	745.3	745.3	743.3	741.4	735.5	729.6	727.7	725.7	725.7
10°	762.8	760.9	758.9	755.0	755.0	755.0	747.2	741.4	739.4	739.4	739.4
12.5°	799.9	797.9	794.0	788.2	788.2	790.1	778.4	770.6	770.6	768.7	768.7
15°	854.5	852.6	848.7	838.9	837.0	840.9	823.3	815.5	815.5	815.5	813.5
17.5°	915.0	911.1	905.2	897.4	897.4	897.4	879.9	870.1	864.3	864.3	862.3
20°	965.7	963.8	963.8	961.8	967.7	967.7	944.3	928.6	915.0	907.2	905.2
22.5°	1010.6	1008.6	1012.5	1020.3	1032.0	1035.9	1008.6	985.2	963.8	948.2	944.3
25°	1071.1	1069.1	1067.2	1078.9	1098.4	1104.2	1075.0	1045.7	1024.2	1016.4	1012.5
27.5°	1135.4	1137.4	1139.3	1151.1	1166.7	1176.4	1147.1	1119.8	1102.3	1090.6	1086.7
30°	1207.6	1211.5	1217.4	1234.9	1246.6	1250.5	1225.2	1205.7	1190.1	1180.3	1174.5
32.5°	1299.3	1307.1	1314.9	1330.5	1336.4	1332.5	1320.8	1307.1	1295.4	1281.8	1279.8
35°	1435.9	1443.7	1441.7	1447.6	1449.5	1445.6	1439.8	1432.0	1426.1	1408.6	1406.6
37.5°	1607.6	1615.4	1603.7	1597.8	1584.2	1586.1	1584.2	1590.0	1592.0	1574.4	1572.5
40°	1781.2	1789.0	1773.4	1757.8	1744.1	1738.3	1748.0	1767.5	1767.5	1755.8	1755.8
42.5°	1966.5	1972.4	1947.0	1927.5	1910.0	1906.1	1911.9	1935.3	1941.2	1939.2	1939.2
45°	2151.9	2148.0	2114.8	2095.3	2079.7	2069.9	2071.9	2089.5	2101.2	2107.0	2107.0
47.5°	2294.3	2288.4	2261.1	2245.5	2235.8	2222.1	2222.1	2231.9	2237.7	2239.7	2239.7
50°	2407.5	2401.6	2374.3	2372.3	2372.3	2366.5	2360.6	2358.7	2354.8	2356.7	2356.7
52.5°	2505.0	2497.2	2477.7	2481.6	2499.1	2503.0	2495.2	2479.6	2464.0	2458.2	2460.1
55°	2610.4	2598.6	2583.0	2594.7	2629.9	2645.5	2633.8	2602.5	2575.2	2557.7	2557.7
57.5°	2694.2	2680.6	2680.6	2713.8	2778.1	2809.3	2784.0	2725.5	2678.6	2659.1	2661.1
60°	2635.7	2624.0	2670.8	2817.1	2938.1	2990.8	2947.9	2844.5	2768.4	2745.0	2748.9
62.5°	2520.6	2512.8	2571.3	2797.6	3082.5	3191.7	3127.3	2979.1	2865.9	2838.6	2838.6
65°	2350.9	2348.9	2430.9	2709.8	3115.6	3384.9	3330.2	3125.4	2979.1	2942.0	2949.8
67.5°	2175.3	2175.3	2249.4	2559.6	3076.6	3466.8	3509.7	3258.1	3033.7	2942.0	2944.0
70°	1865.1	1898.3	2095.3	2421.1	2934.2	3408.3	3583.9	3164.4	2795.7	2633.8	2627.9
72.5°	1229.1	1272.0	1664.1	2179.2	2793.7	3195.6	3234.6	2780.1	2321.6	2132.4	2122.6
75°	741.4	778.4	1078.9	1701.2	2456.2	2573.3	2401.6	2179.2	1734.4	1586.1	1586.1
77.5°	218.5	243.9	497.5	1078.9	1699.3	1691.5	1480.8	1283.7	1026.2	872.1	883.8
80°	128.8	132.7	161.9	491.6	704.3	741.4	571.6	357.0	357.0	265.3	257.5
82.5°	99.5	99.5	103.4	122.9	169.7	189.2	144.4	122.9	140.5	119.0	113.2
85°	70.2	70.2	70.2	72.2	74.1	76.1	80.0	81.9	89.7	74.1	70.2
87.5°	21.5	23.4	25.4	29.3	35.1	37.1	39.0	35.1	35.1	33.2	31.2
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)