

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: P836611

Luminaire Tested: **ARCH3-50-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836611
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: ARCH3-50-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8740 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

Input Watts (W): 53.6
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

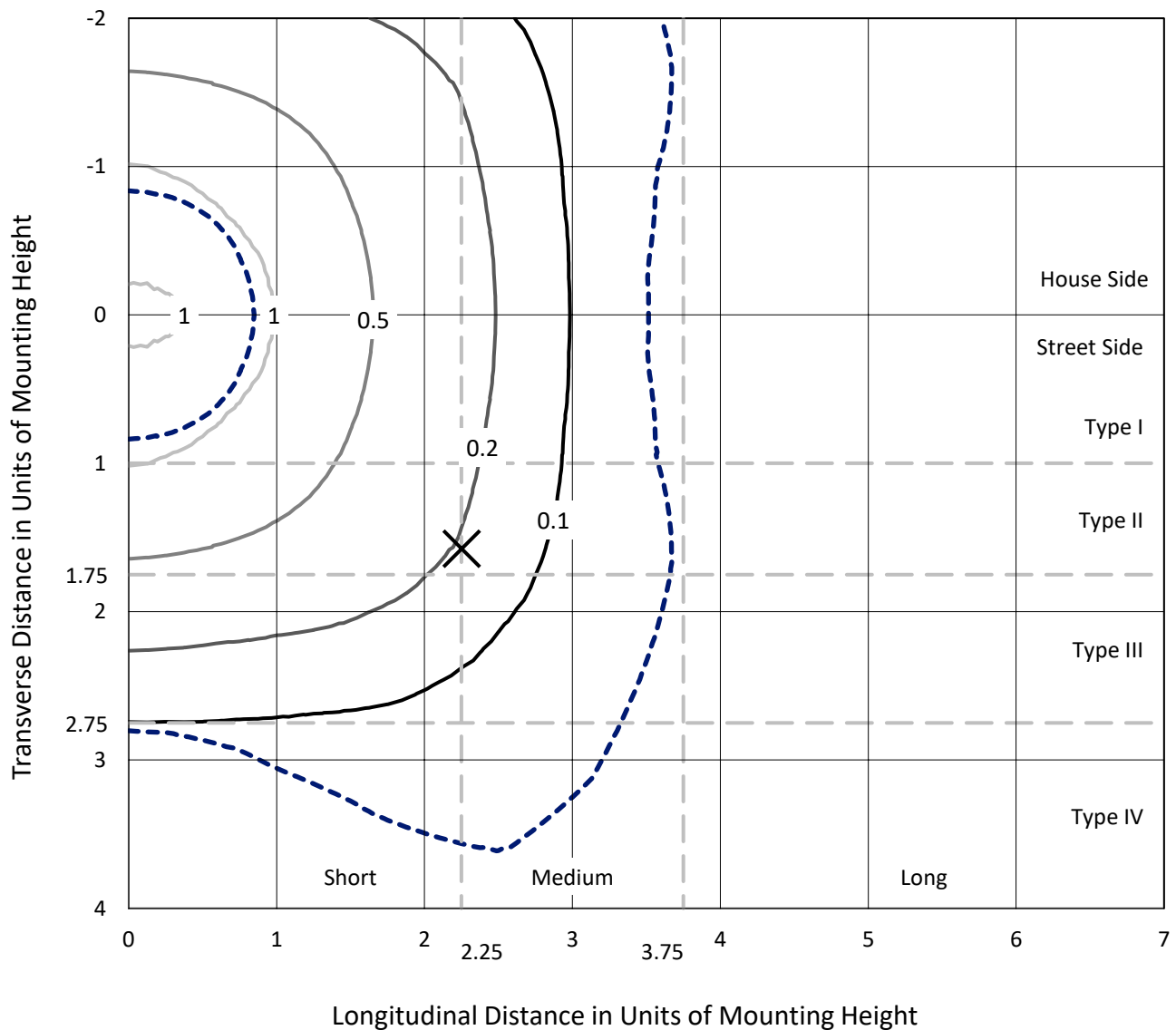


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Iso-Footcandle Lines of Horizontal Illumination

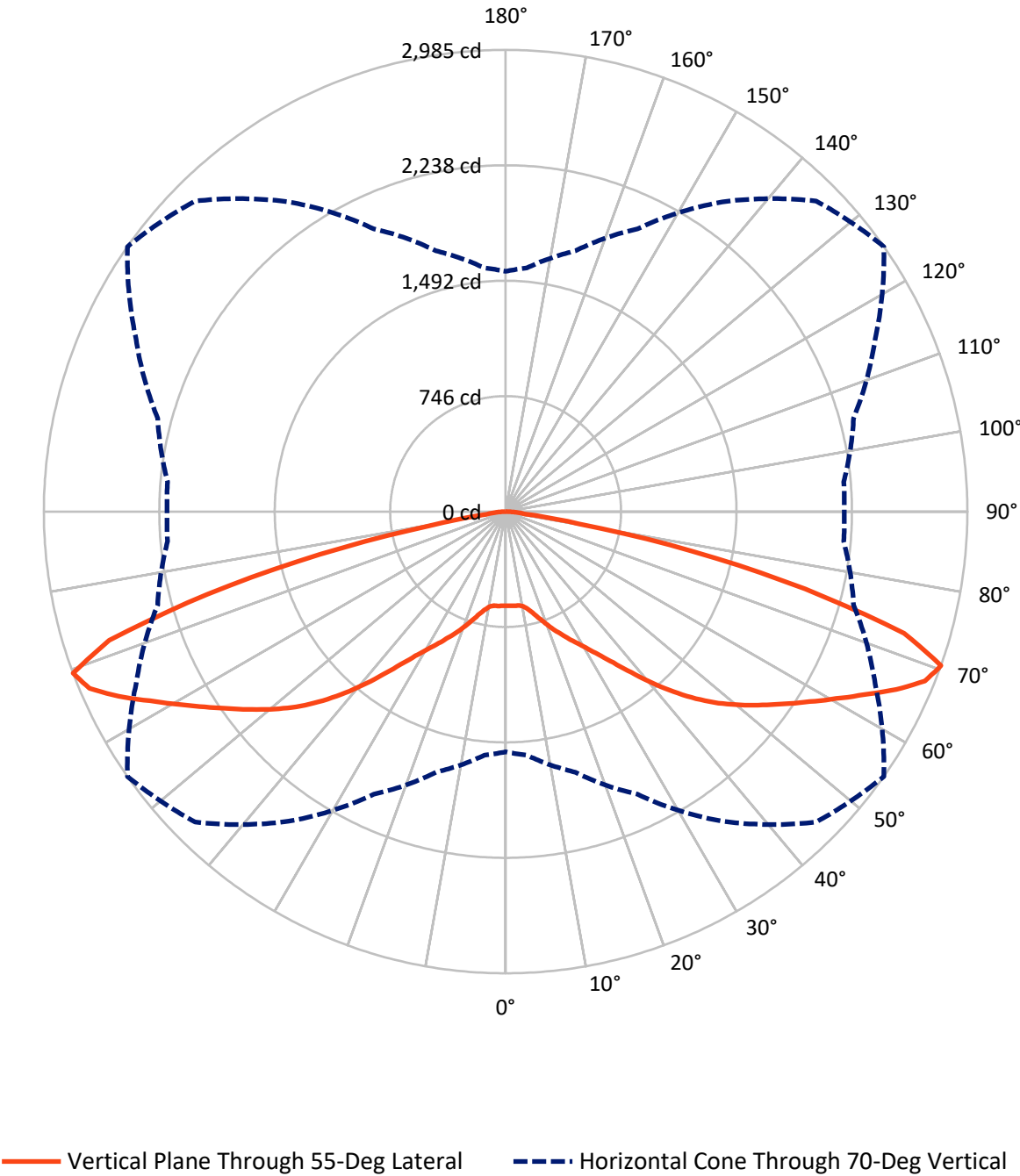
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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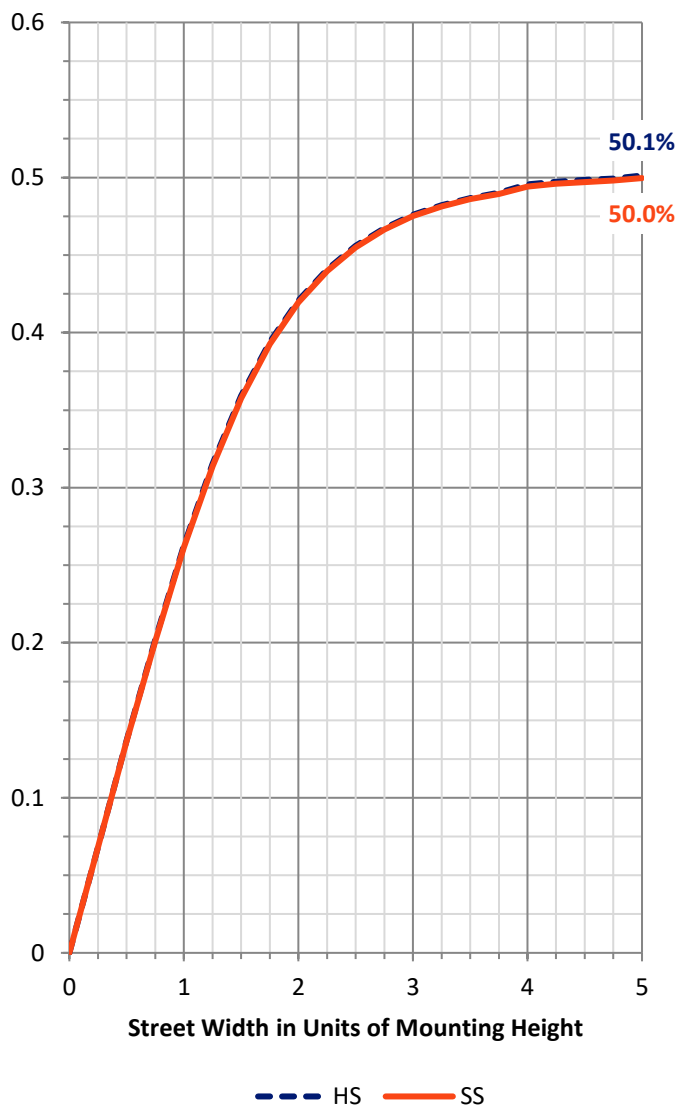
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4370.0	0.0	4370.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4370.0	0.0	4370.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8740.0	0.0	8740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	0.7
10°-20°	200.2	2.3
20°-30°	416.0	4.8
30°-40°	768.2	8.8
40°-50°	1349.6	15.4
50°-60°	1946.5	22.3
60°-70°	2382.3	27.3
70°-80°	1515.9	17.3
80°-90°	102.6	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°	8740.0	100.0
0°-180°	8740.0	100.0

Coefficient of Utilization



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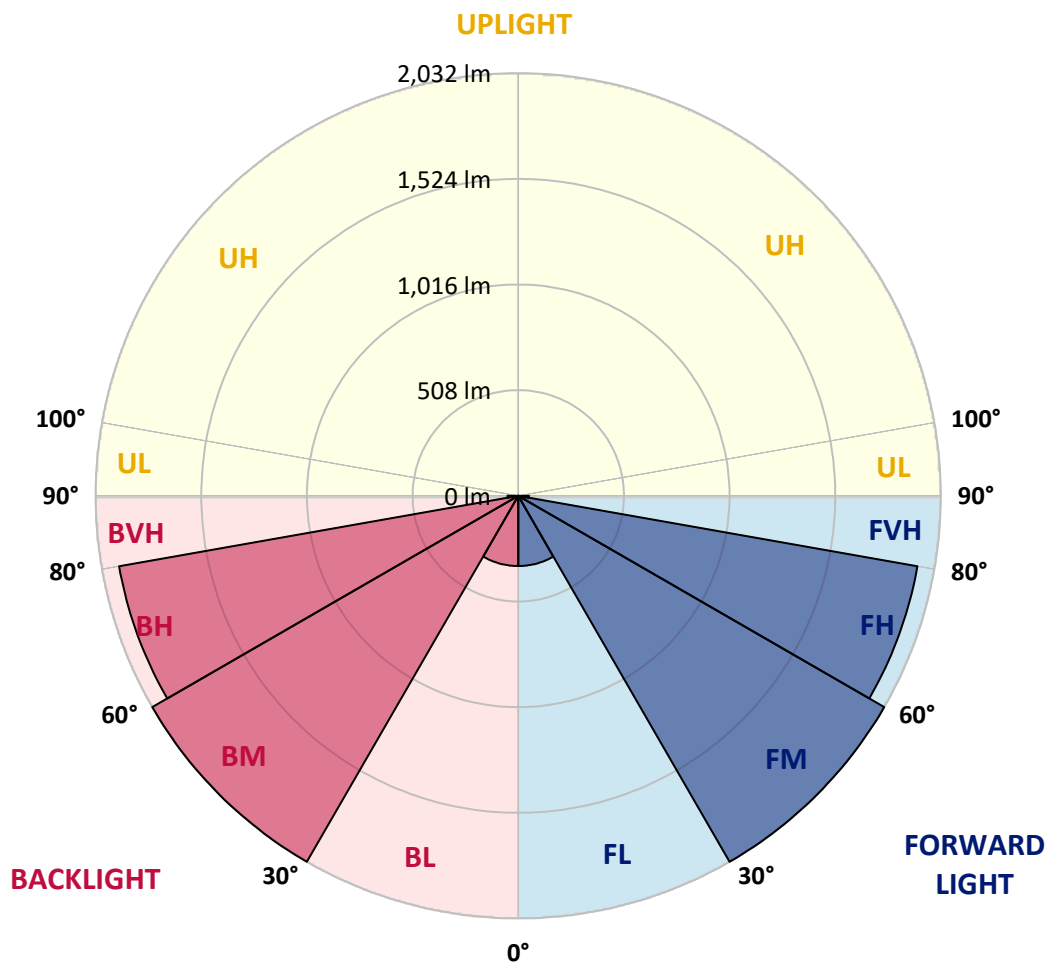
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.5	3.9			
FM	(30°-60°)	2032.2	23.3			
FH	(60°-80°)	1949.1	22.3			G2/5000
FVH	(80°-90°)	51.3	0.6			G1/100
BL	(0°-30°)	337.5	3.9	B1/500		
BM	(30°-60°)	2032.2	23.3	B2/2500		
BH	(60°-80°)	1949.1	22.3	B3/2500		G2/5000
BVH	(80°-90°)	51.3	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°	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3
2.5°	617.4	617.4	615.8	615.8	612.5	610.9	609.3	609.3	607.6	607.6	606.0
5°	620.6	620.6	620.6	619.0	617.4	615.8	612.5	609.3	607.6	606.0	604.4
7.5°	622.3	622.3	620.6	620.6	619.0	617.4	612.5	607.6	606.0	604.4	604.4
10°	635.3	633.6	632.0	628.8	628.8	628.8	622.3	617.4	615.8	615.8	615.8
12.5°	666.1	664.5	661.3	656.4	656.4	658.0	648.3	641.8	641.8	640.1	640.1
15°	711.6	710.0	706.7	698.6	697.0	700.2	685.6	679.1	679.1	679.1	677.5
17.5°	762.0	758.7	753.9	747.4	747.4	747.4	732.7	724.6	719.7	719.7	718.1
20°	804.2	802.6	802.6	801.0	805.8	805.8	786.4	773.4	762.0	755.5	753.9
22.5°	841.6	840.0	843.2	849.7	859.5	862.7	840.0	820.5	802.6	789.6	786.4
25°	892.0	890.3	888.7	898.5	914.7	919.6	895.2	870.8	853.0	846.5	843.2
27.5°	945.6	947.2	948.8	958.6	971.6	979.7	955.3	932.6	918.0	908.2	905.0
30°	1005.7	1008.9	1013.8	1028.4	1038.2	1041.4	1020.3	1004.1	991.1	982.9	978.1
32.5°	1082.0	1088.5	1095.0	1108.0	1112.9	1109.7	1099.9	1088.5	1078.8	1067.4	1065.8
35°	1195.8	1202.3	1200.6	1205.5	1207.1	1203.9	1199.0	1192.5	1187.7	1173.0	1171.4
37.5°	1338.7	1345.2	1335.5	1330.6	1319.3	1320.9	1319.3	1324.1	1325.8	1311.1	1309.5
40°	1483.3	1489.8	1476.8	1463.8	1452.5	1447.6	1455.7	1472.0	1472.0	1462.2	1462.2
42.5°	1637.7	1642.6	1621.4	1605.2	1590.6	1587.3	1592.2	1611.7	1616.6	1614.9	1614.9
45°	1792.0	1788.8	1761.2	1744.9	1731.9	1723.8	1725.4	1740.0	1749.8	1754.7	1754.7
47.5°	1910.6	1905.8	1883.0	1870.0	1861.9	1850.5	1850.5	1858.7	1863.5	1865.1	1865.1
50°	2004.9	2000.0	1977.3	1975.6	1975.6	1970.8	1965.9	1964.3	1961.0	1962.6	1962.6
52.5°	2086.1	2079.6	2063.4	2066.6	2081.2	2084.5	2078.0	2065.0	2052.0	2047.1	2048.7
55°	2173.8	2164.1	2151.1	2160.8	2190.1	2203.1	2193.3	2167.3	2144.6	2130.0	2130.0
57.5°	2243.7	2232.3	2232.3	2260.0	2313.6	2339.6	2318.4	2269.7	2230.7	2214.5	2216.1
60°	2195.0	2185.2	2224.2	2346.1	2446.8	2490.7	2454.9	2368.8	2305.4	2285.9	2289.2
62.5°	2099.1	2092.6	2141.3	2329.8	2567.0	2658.0	2604.4	2480.9	2386.7	2363.9	2363.9
65°	1957.8	1956.1	2024.4	2256.7	2594.6	2818.8	2773.4	2602.8	2480.9	2450.0	2456.5
67.5°	1811.5	1811.5	1873.3	2131.6	2562.1	2887.1	2922.8	2713.2	2526.4	2450.0	2451.7
70°	1553.2	1580.8	1744.9	2016.2	2443.5	2838.3	2984.6	2635.3	2328.2	2193.3	2188.5
72.5°	1023.6	1059.3	1385.9	1814.8	2326.6	2661.2	2693.7	2315.2	1933.4	1775.8	1767.7
75°	617.4	648.3	898.5	1416.7	2045.5	2143.0	2000.0	1814.8	1444.4	1320.9	1320.9
77.5°	182.0	203.1	414.3	898.5	1415.1	1408.6	1233.1	1069.0	854.6	726.2	736.0
80°	107.2	110.5	134.8	409.4	586.5	617.4	476.0	297.3	297.3	221.0	214.5
82.5°	82.9	82.9	86.1	102.4	141.3	157.6	120.2	102.4	117.0	99.1	94.2
85°	58.5	58.5	58.5	60.1	61.7	63.4	66.6	68.2	74.7	61.7	58.5
87.5°	17.9	19.5	21.1	24.4	29.2	30.9	32.5	29.2	29.2	27.6	26.0
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)