

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: P799743

Luminaire Tested: **ARCH2-50-727-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799743
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: ARCH2-50-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7458 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

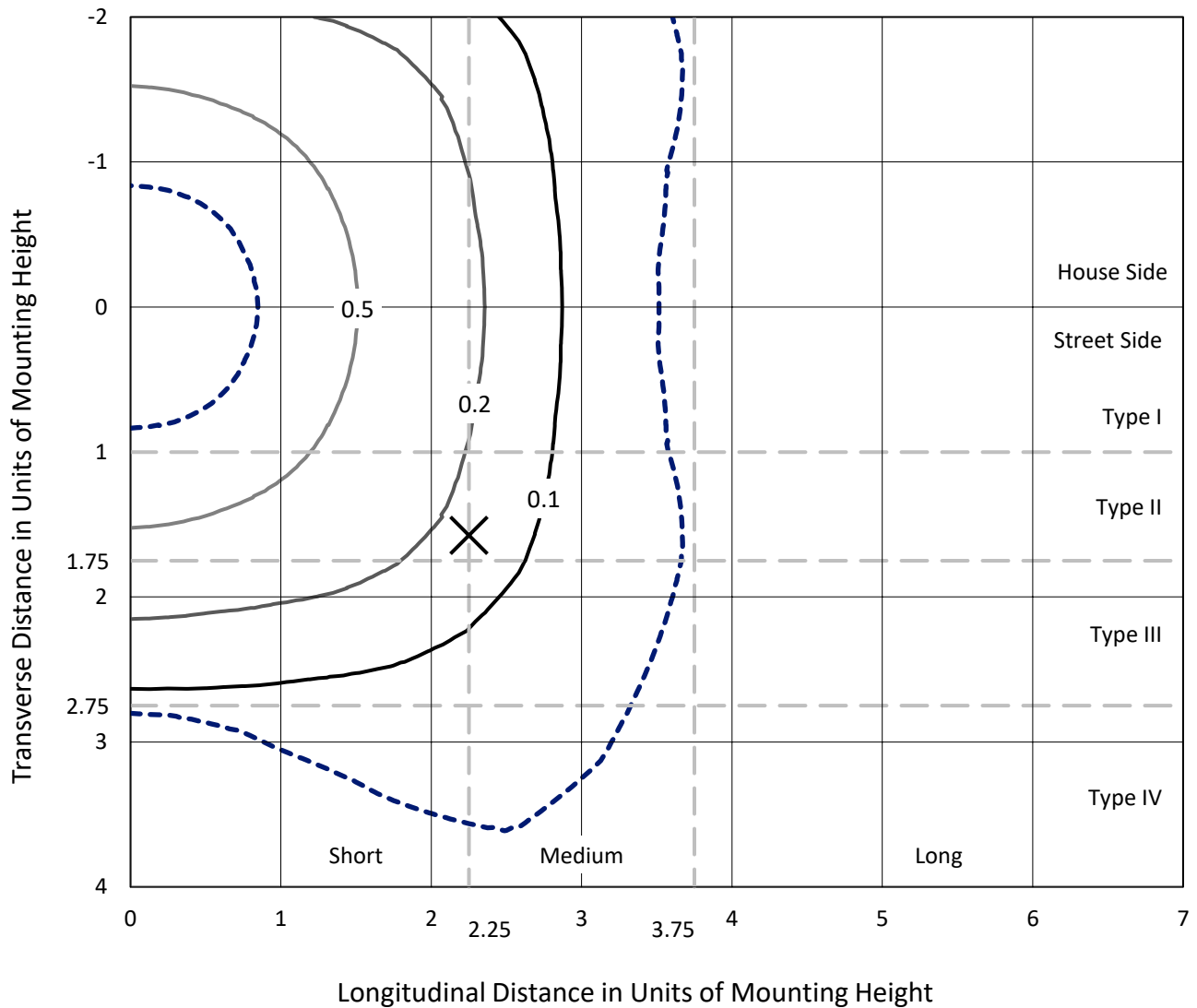
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

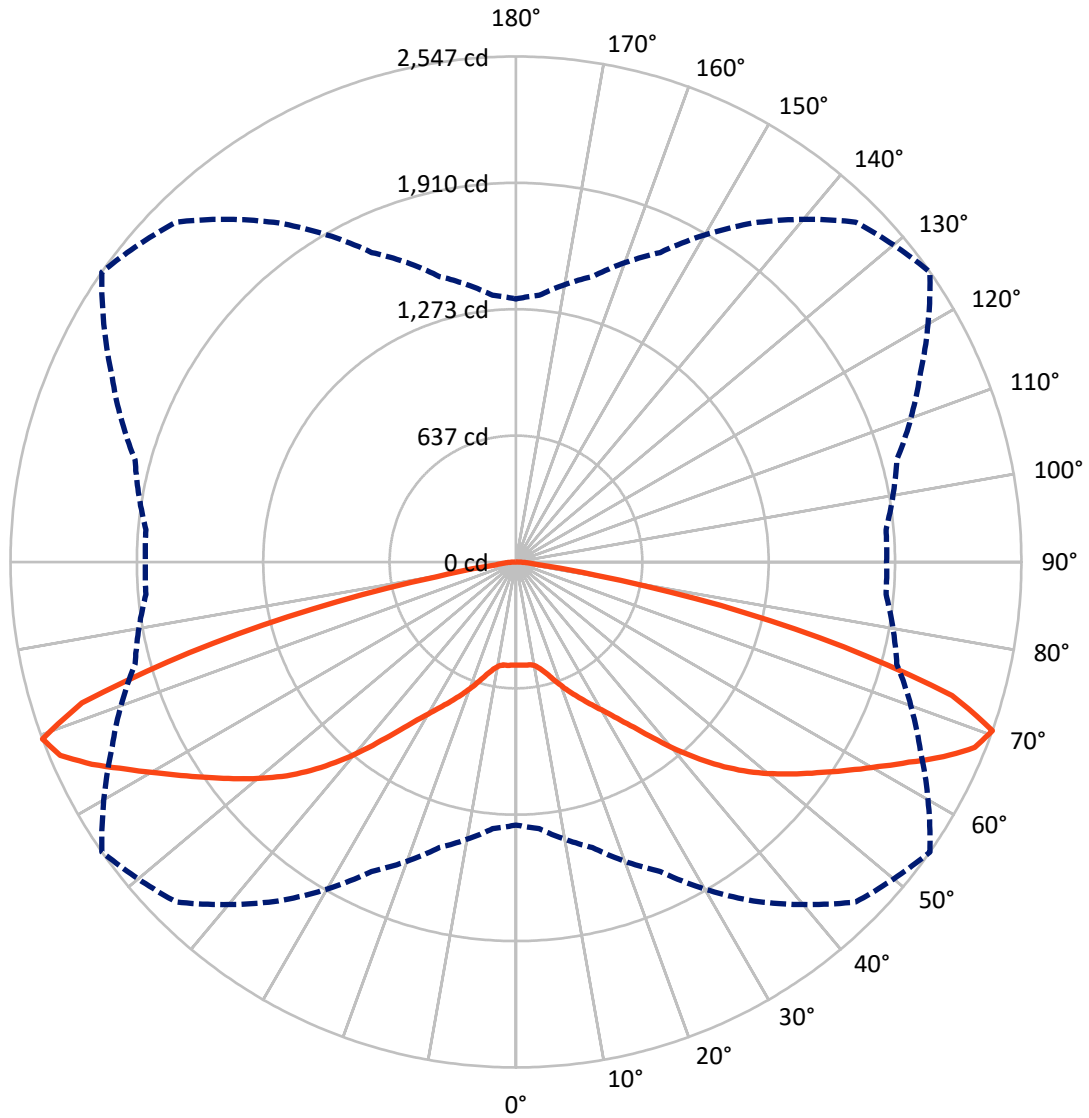
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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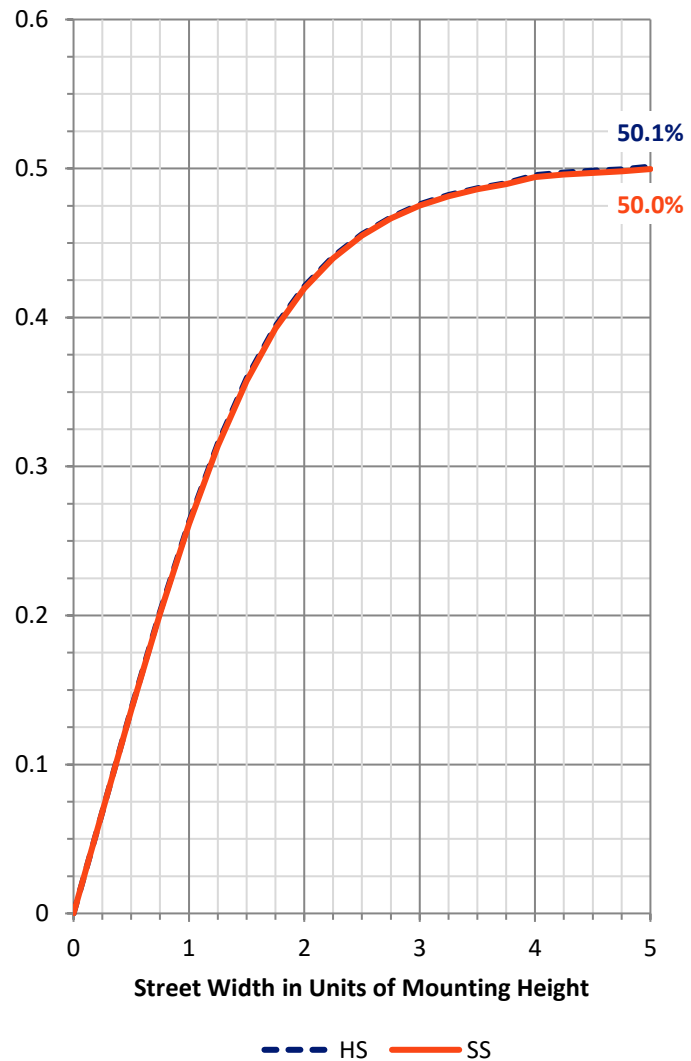
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3729.0	0.0	3729.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3729.0	0.0	3729.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7458.0	0.0	7458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	0.7
10°-20°	170.8	2.3
20°-30°	354.9	4.8
30°-40°	655.5	8.8
40°-50°	1151.7	15.4
50°-60°	1661.0	22.3
60°-70°	2032.8	27.3
70°-80°	1293.5	17.3
80°-90°	87.5	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°	7458.0	100.0
0°-180°	7458.0	100.0

Coefficient of Utilization



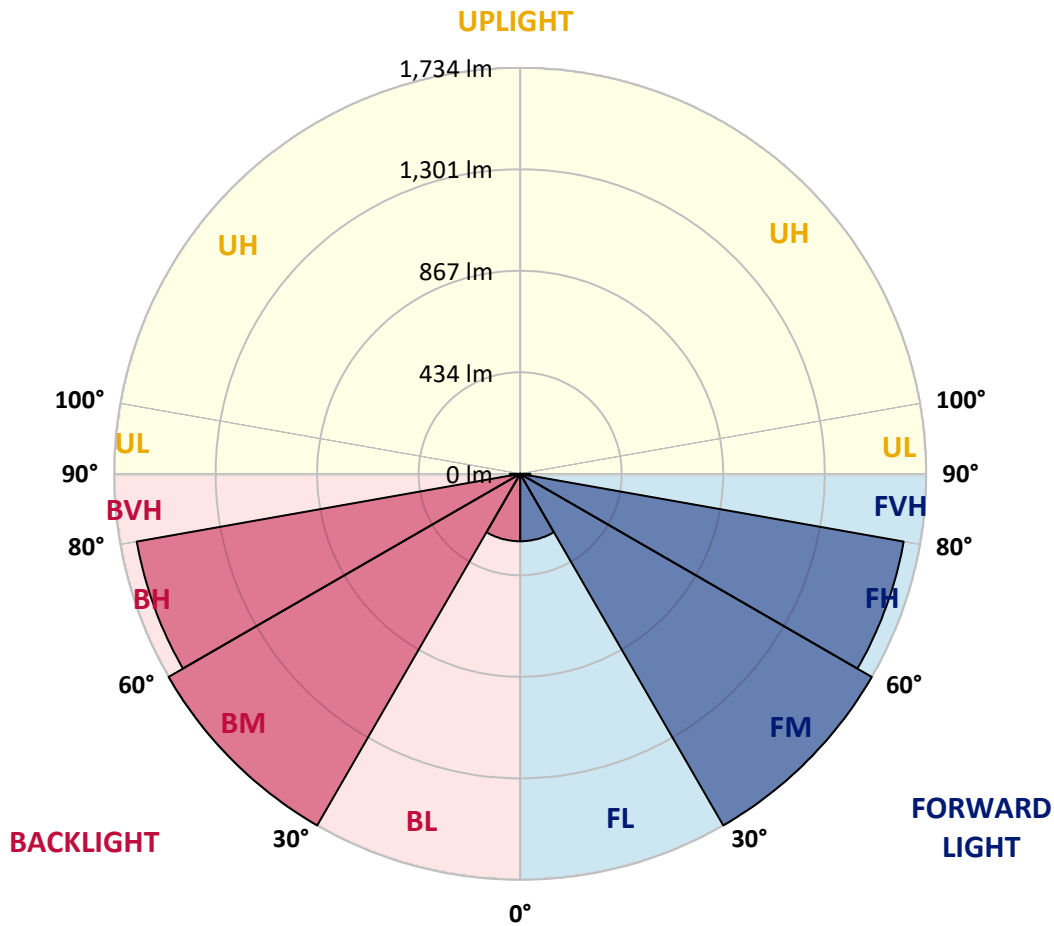
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	288.0	3.9			
FM (30°-60°)	1734.1	23.3			
FH (60°-80°)	1663.2	22.3			G1/1800
FVH (80°-90°)	43.8	0.6			G1/100
BL (0°-30°)	288.0	3.9	B1/500		
BM (30°-60°)	1734.1	23.3	B2/2500		
BH (60°-80°)	1663.2	22.3	B3/2500		G1/1800
BVH (80°-90°)	43.8	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-G1

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9	519.9
2.5°	526.8	526.8	525.4	525.4	522.7	521.3	519.9	519.9	518.5	518.5	517.1
5°	529.6	529.6	529.6	528.2	526.8	525.4	522.7	519.9	518.5	517.1	515.7
7.5°	531.0	531.0	529.6	529.6	528.2	526.8	522.7	518.5	517.1	515.7	515.7
10°	542.1	540.7	539.3	536.5	536.5	536.5	531.0	526.8	525.4	525.4	525.4
12.5°	568.4	567.0	564.3	560.1	560.1	561.5	553.2	547.6	547.6	546.2	546.2
15°	607.2	605.8	603.1	596.1	594.8	597.5	585.1	579.5	579.5	579.5	578.1
17.5°	650.2	647.4	643.3	637.7	637.7	637.7	625.3	618.3	614.2	614.2	612.8
20°	686.3	684.9	684.9	683.5	687.6	687.6	671.0	659.9	650.2	644.7	643.3
22.5°	718.1	716.8	719.5	725.1	733.4	736.2	716.8	700.1	684.9	673.8	671.0
25°	761.1	759.7	758.4	766.7	780.5	784.7	763.9	743.1	727.9	722.3	719.5
27.5°	806.9	808.3	809.6	818.0	829.1	836.0	815.2	795.8	783.3	775.0	772.2
30°	858.2	860.9	865.1	877.6	885.9	888.7	870.6	856.8	845.7	838.8	834.6
32.5°	923.3	928.9	934.4	945.5	949.7	946.9	938.6	928.9	920.6	910.9	909.5
35°	1020.4	1025.9	1024.5	1028.7	1030.1	1027.3	1023.1	1017.6	1013.4	1001.0	999.6
37.5°	1142.4	1147.9	1139.6	1135.4	1125.7	1127.1	1125.7	1129.9	1131.3	1118.8	1117.4
40°	1265.8	1271.3	1260.2	1249.1	1239.4	1235.3	1242.2	1256.1	1256.1	1247.7	1247.7
42.5°	1397.5	1401.6	1383.6	1369.7	1357.3	1354.5	1358.7	1375.3	1379.4	1378.1	1378.1
45°	1529.2	1526.4	1502.8	1489.0	1477.9	1471.0	1472.3	1484.8	1493.1	1497.3	1497.3
47.5°	1630.4	1626.2	1606.8	1595.7	1588.8	1579.1	1579.1	1586.0	1590.2	1591.6	1591.6
50°	1710.8	1706.6	1687.2	1685.8	1685.8	1681.7	1677.5	1676.1	1673.4	1674.7	1674.7
52.5°	1780.1	1774.6	1760.7	1763.5	1776.0	1778.7	1773.2	1762.1	1751.0	1746.8	1748.2
55°	1855.0	1846.7	1835.6	1843.9	1868.8	1879.9	1871.6	1849.4	1830.0	1817.5	1817.5
57.5°	1914.6	1904.9	1904.9	1928.5	1974.2	1996.4	1978.4	1936.8	1903.5	1889.6	1891.0
60°	1873.0	1864.7	1898.0	2001.9	2087.9	2125.3	2094.8	2021.3	1967.3	1950.6	1953.4
62.5°	1791.2	1785.7	1827.3	1988.1	2190.5	2268.1	2222.4	2117.0	2036.6	2017.2	2017.2
65°	1670.6	1669.2	1727.4	1925.7	2214.1	2405.4	2366.6	2221.0	2117.0	2090.7	2096.2
67.5°	1545.8	1545.8	1598.5	1818.9	2186.3	2463.6	2494.1	2315.3	2155.8	2090.7	2092.0
70°	1325.4	1348.9	1489.0	1720.5	2085.1	2422.0	2546.8	2248.7	1986.7	1871.6	1867.5
72.5°	873.4	903.9	1182.6	1548.6	1985.3	2270.9	2298.6	1975.6	1649.8	1515.3	1508.4
75°	526.8	553.2	766.7	1208.9	1745.5	1828.6	1706.6	1548.6	1232.5	1127.1	1127.1
77.5°	155.3	173.3	353.5	766.7	1207.5	1202.0	1052.3	912.2	729.2	619.7	628.0
80°	91.5	94.3	115.1	349.4	500.5	526.8	406.2	253.7	253.7	188.5	183.0
82.5°	70.7	70.7	73.5	87.3	120.6	134.5	102.6	87.3	99.8	84.6	80.4
85°	49.9	49.9	49.9	51.3	52.7	54.1	56.8	58.2	63.8	52.7	49.9
87.5°	15.3	16.6	18.0	20.8	25.0	26.3	27.7	25.0	25.0	23.6	22.2
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)