

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: P836557

Luminaire Tested: **ARCH3-40-740-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836557
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: ARCH3-40-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7510 lumens
Efficiency: N/A
Efficacy: 172.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

Input Watts (W): 43.6
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



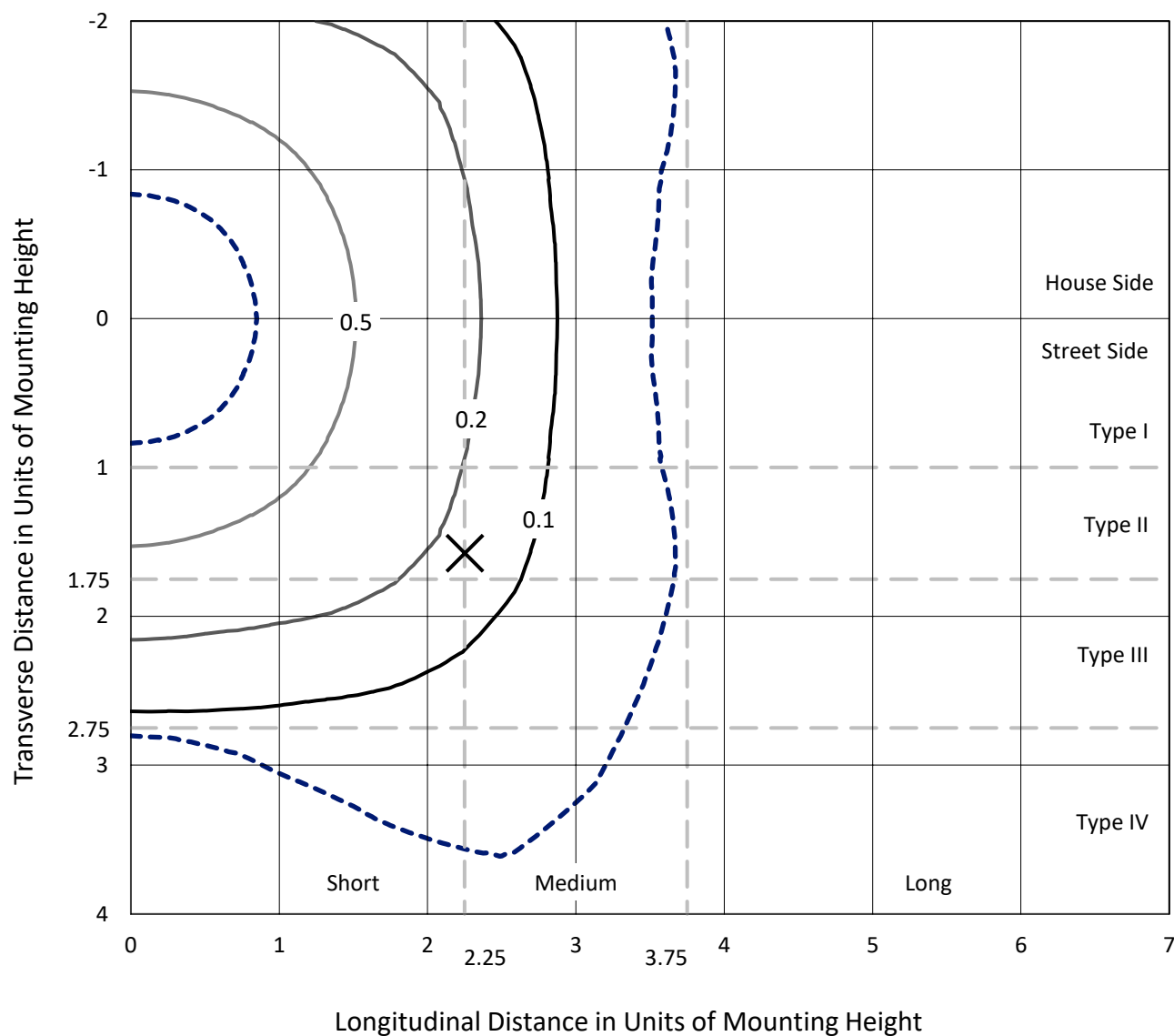
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

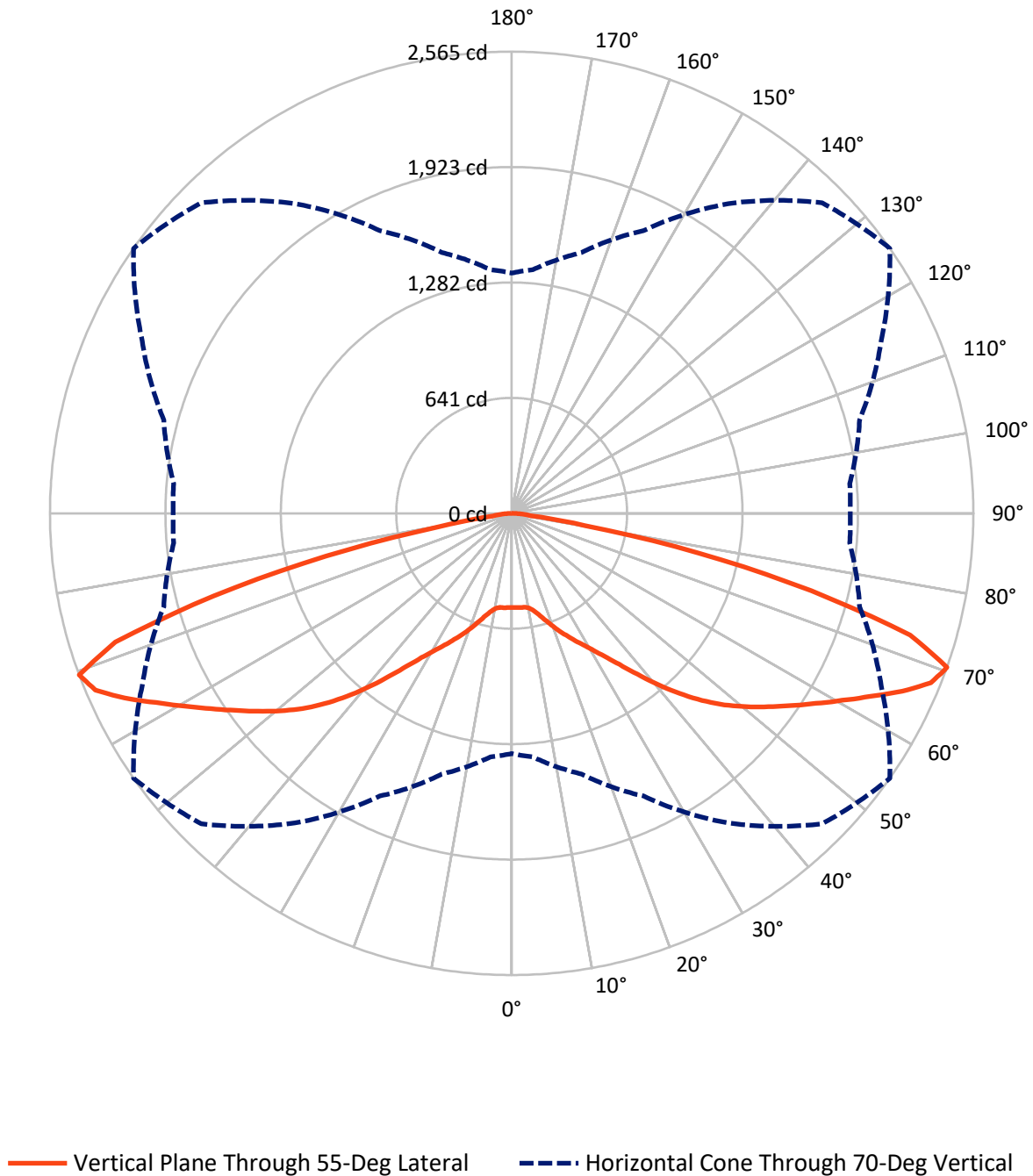
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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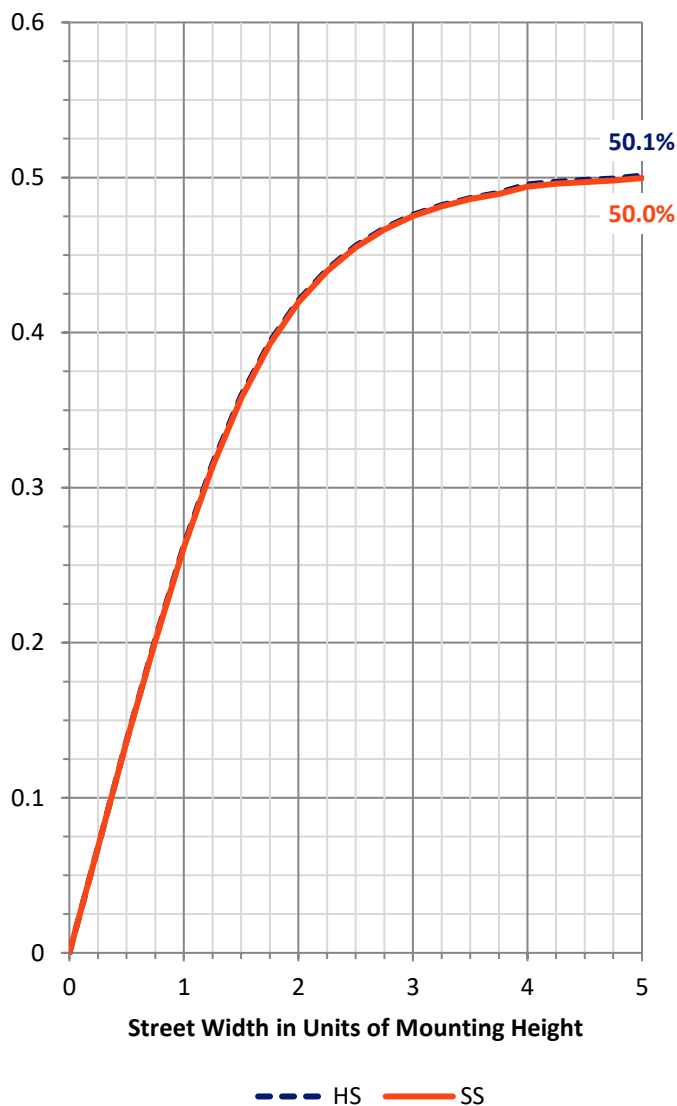
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3755.0	0.0	3755.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3755.0	0.0	3755.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7510.0	0.0	7510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	0.7
10°-20°	172.0	2.3
20°-30°	357.4	4.8
30°-40°	660.1	8.8
40°-50°	1159.7	15.4
50°-60°	1672.5	22.3
60°-70°	2047.0	27.3
70°-80°	1302.6	17.3
80°-90°	88.1	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°	7510.0	100.0
0°-180°	7510.0	100.0

Coefficient of Utilization



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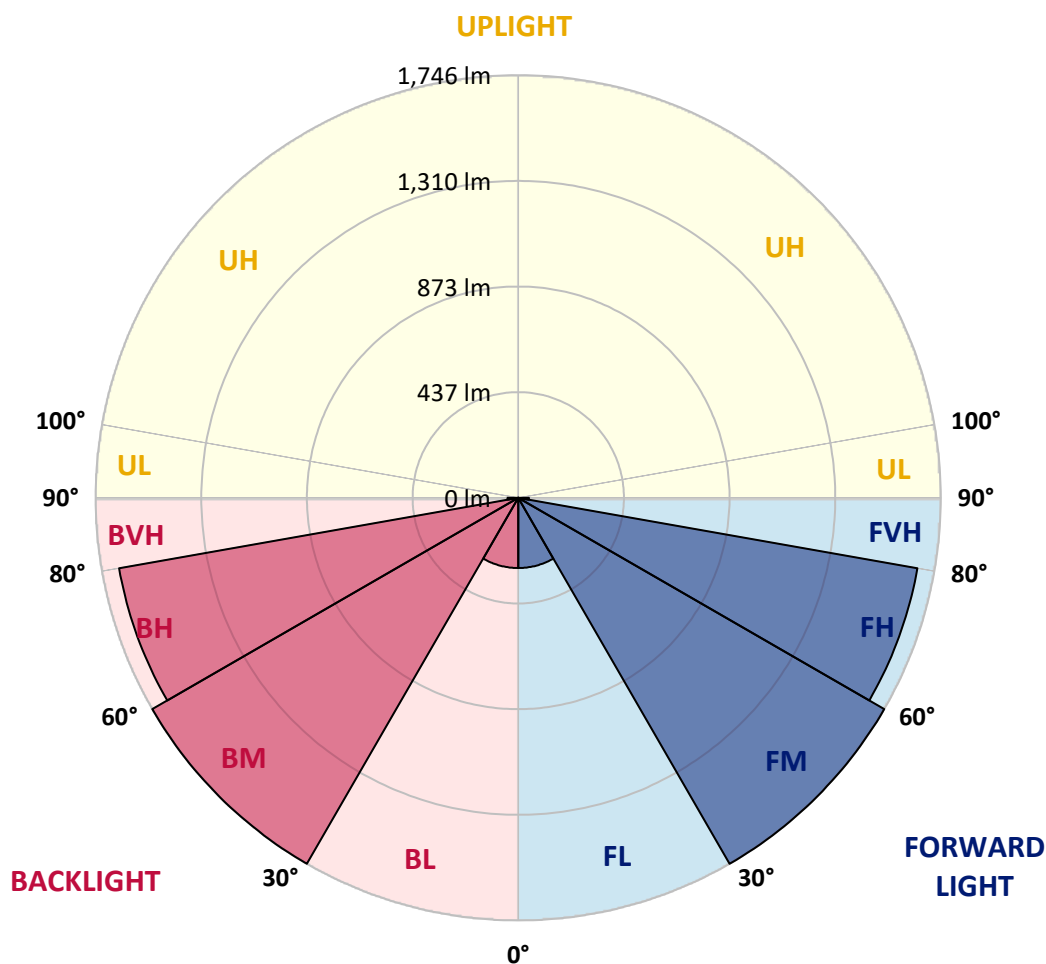
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.0	3.9			
FM	(30°-60°)	1746.2	23.3			
FH	(60°-80°)	1674.8	22.3			G1/1800
FVH	(80°-90°)	44.1	0.6			G1/100
BL	(0°-30°)	290.0	3.9	B1/500		
BM	(30°-60°)	1746.2	23.3	B2/2500		
BH	(60°-80°)	1674.8	22.3	B3/2500		G1/1800
BVH	(80°-90°)	44.1	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°	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5	523.5
2.5°	530.5	530.5	529.1	529.1	526.3	524.9	523.5	523.5	522.1	522.1	520.7
5°	533.3	533.3	533.3	531.9	530.5	529.1	526.3	523.5	522.1	520.7	519.3
7.5°	534.7	534.7	533.3	533.3	531.9	530.5	526.3	522.1	520.7	519.3	519.3
10°	545.9	544.5	543.1	540.3	540.3	540.3	534.7	530.5	529.1	529.1	529.1
12.5°	572.4	571.0	568.2	564.0	564.0	565.4	557.0	551.4	551.4	550.0	550.0
15°	611.5	610.1	607.3	600.3	598.9	601.7	589.1	583.5	583.5	583.5	582.2
17.5°	654.7	652.0	647.8	642.2	642.2	642.2	629.6	622.6	618.4	618.4	617.1
20°	691.0	689.6	689.6	688.3	692.4	692.4	675.7	664.5	654.7	649.2	647.8
22.5°	723.2	721.8	724.5	730.1	738.5	741.3	721.8	705.0	689.6	678.5	675.7
25°	766.4	765.0	763.6	772.0	786.0	790.2	769.2	748.3	732.9	727.3	724.5
27.5°	812.5	813.9	815.3	823.7	834.8	841.8	820.9	801.3	788.8	780.4	777.6
30°	864.2	866.9	871.1	883.7	892.1	894.9	876.7	862.8	851.6	844.6	840.4
32.5°	929.8	935.4	940.9	952.1	956.3	953.5	945.1	935.4	927.0	917.2	915.8
35°	1027.5	1033.1	1031.7	1035.9	1037.3	1034.5	1030.3	1024.7	1020.5	1007.9	1006.6
37.5°	1150.3	1155.9	1147.6	1143.4	1133.6	1135.0	1133.6	1137.8	1139.2	1126.6	1125.2
40°	1274.6	1280.2	1269.0	1257.8	1248.1	1243.9	1250.9	1264.8	1264.8	1256.4	1256.4
42.5°	1407.2	1411.4	1393.3	1379.3	1366.7	1363.9	1368.1	1384.9	1389.1	1387.7	1387.7
45°	1539.8	1537.0	1513.3	1499.4	1488.2	1481.2	1482.6	1495.2	1503.5	1507.7	1507.7
47.5°	1641.8	1637.6	1618.0	1606.9	1599.9	1590.1	1590.1	1597.1	1601.3	1602.7	1602.7
50°	1722.7	1718.5	1699.0	1697.6	1697.6	1693.4	1689.2	1687.8	1685.0	1686.4	1686.4
52.5°	1792.5	1786.9	1773.0	1775.8	1788.3	1791.1	1785.5	1774.4	1763.2	1759.0	1760.4
55°	1867.9	1859.5	1848.4	1856.7	1881.9	1893.0	1884.7	1862.3	1842.8	1830.2	1830.2
57.5°	1927.9	1918.2	1918.2	1941.9	1988.0	2010.3	1992.2	1950.3	1916.8	1902.8	1904.2
60°	1886.1	1877.7	1911.2	2015.9	2102.4	2140.1	2109.4	2035.4	1981.0	1964.2	1967.0
62.5°	1803.7	1798.1	1840.0	2001.9	2205.8	2283.9	2237.9	2131.8	2050.8	2031.2	2031.2
65°	1682.2	1680.8	1739.5	1939.1	2229.5	2422.1	2383.1	2236.5	2131.8	2105.2	2110.8
67.5°	1556.6	1556.6	1609.6	1831.6	2201.6	2480.8	2511.5	2331.4	2170.9	2105.2	2106.6
70°	1334.6	1358.4	1499.4	1732.5	2099.7	2438.9	2564.5	2264.4	2000.5	1884.7	1880.5
72.5°	879.5	910.2	1190.8	1559.4	1999.1	2286.7	2314.6	1989.4	1661.3	1525.9	1518.9
75°	530.5	557.0	772.0	1217.4	1757.6	1841.4	1718.5	1559.4	1241.1	1135.0	1135.0
77.5°	156.4	174.5	356.0	772.0	1216.0	1210.4	1059.6	918.6	734.3	624.0	632.4
80°	92.1	94.9	115.9	351.8	504.0	530.5	409.0	255.5	255.5	189.9	184.3
82.5°	71.2	71.2	74.0	88.0	121.5	135.4	103.3	88.0	100.5	85.2	81.0
85°	50.3	50.3	50.3	51.7	53.0	54.4	57.2	58.6	64.2	53.0	50.3
87.5°	15.4	16.8	18.1	20.9	25.1	26.5	27.9	25.1	25.1	23.7	22.3
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)