

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: P836539

Luminaire Tested: **ARCH3-40-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836539
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: ARCH3-40-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7152 lumens
Efficiency: N/A
Efficacy: 164.0 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

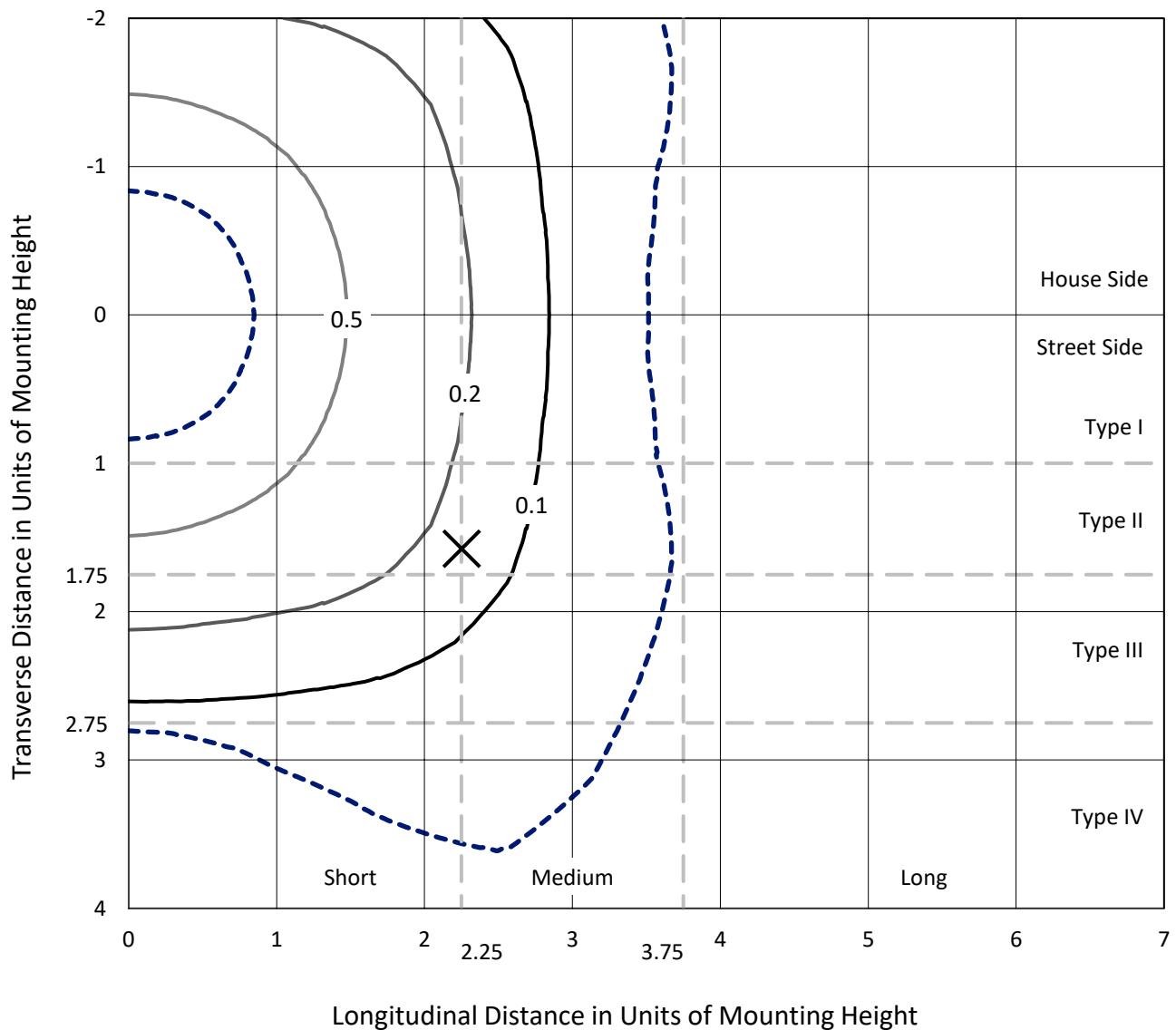
Input Watts (W): 43.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

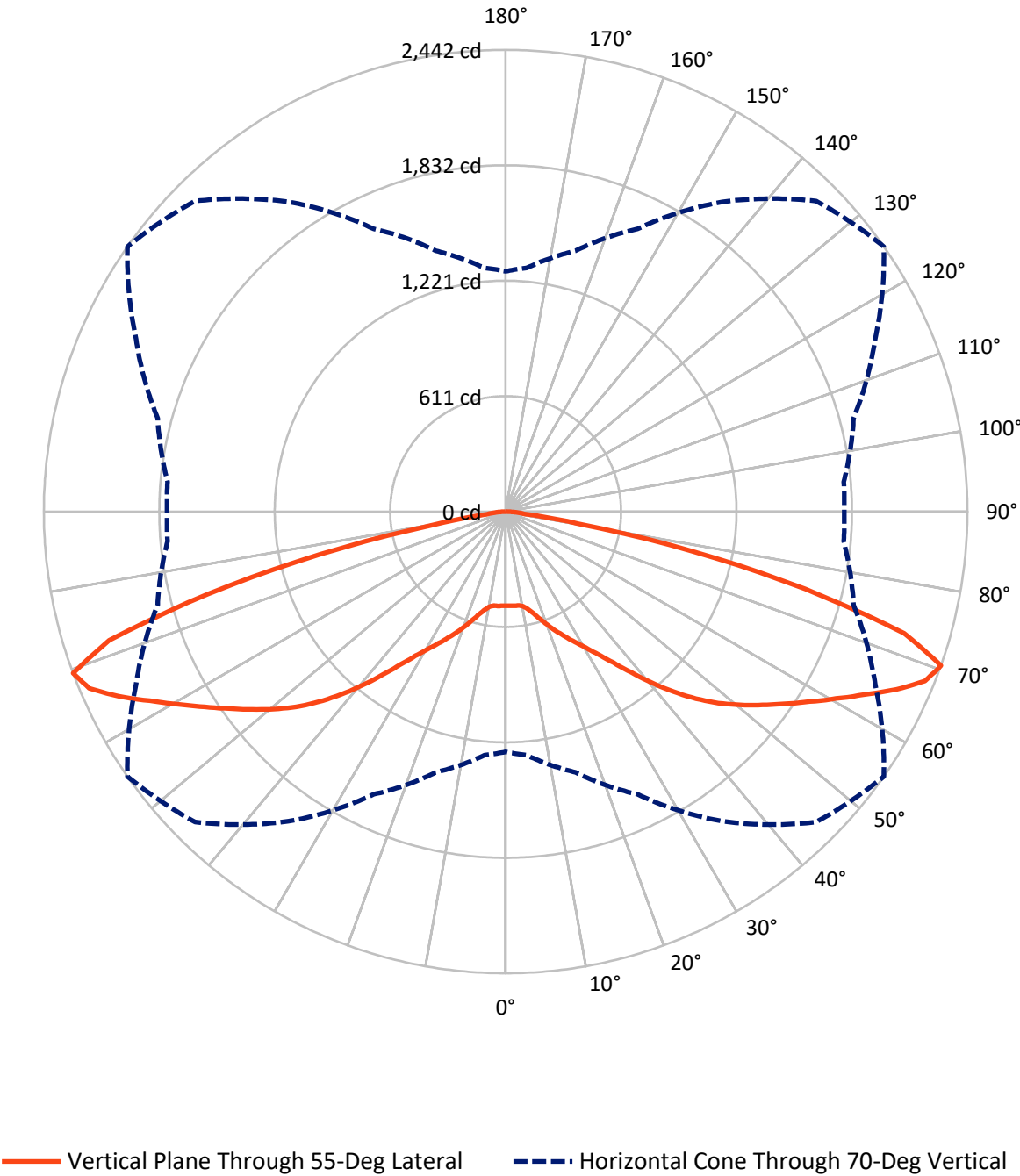
× Max cd
- - - 1/2 Max cd



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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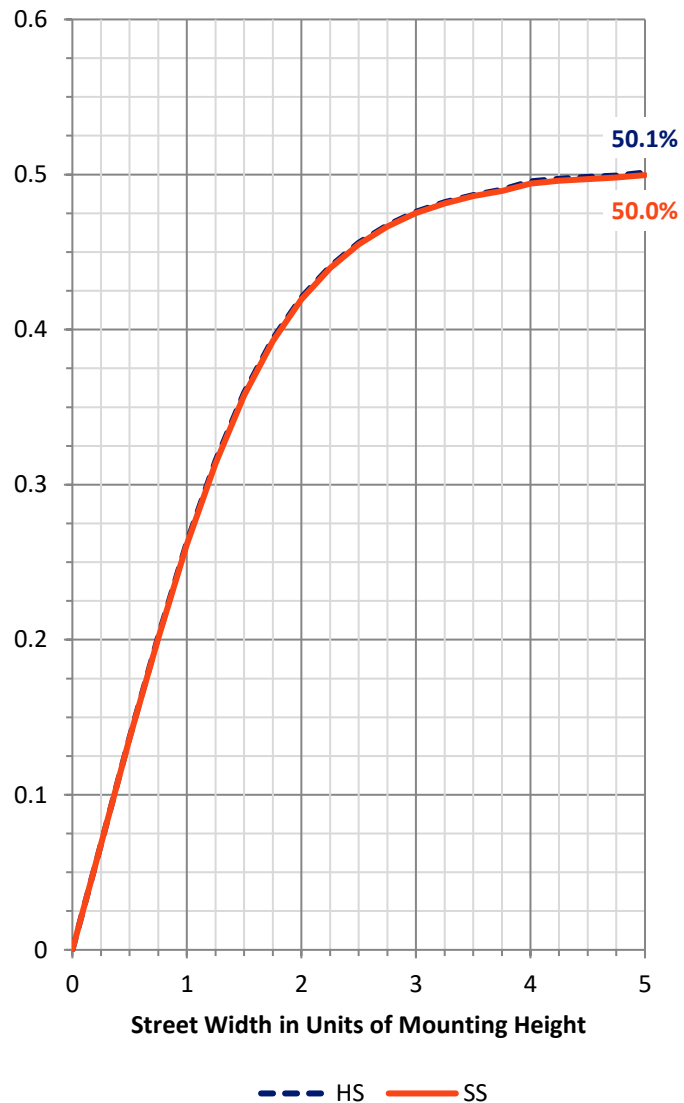
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3576.0	0.0	3576.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3576.0	0.0	3576.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7152.0	0.0	7152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	0.7
10°-20°	163.8	2.3
20°-30°	340.4	4.8
30°-40°	628.7	8.8
40°-50°	1104.4	15.4
50°-60°	1592.8	22.3
60°-70°	1949.4	27.3
70°-80°	1240.5	17.3
80°-90°	83.9	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°	7152.0	100.0
0°-180°	7152.0	100.0

Coefficient of Utilization



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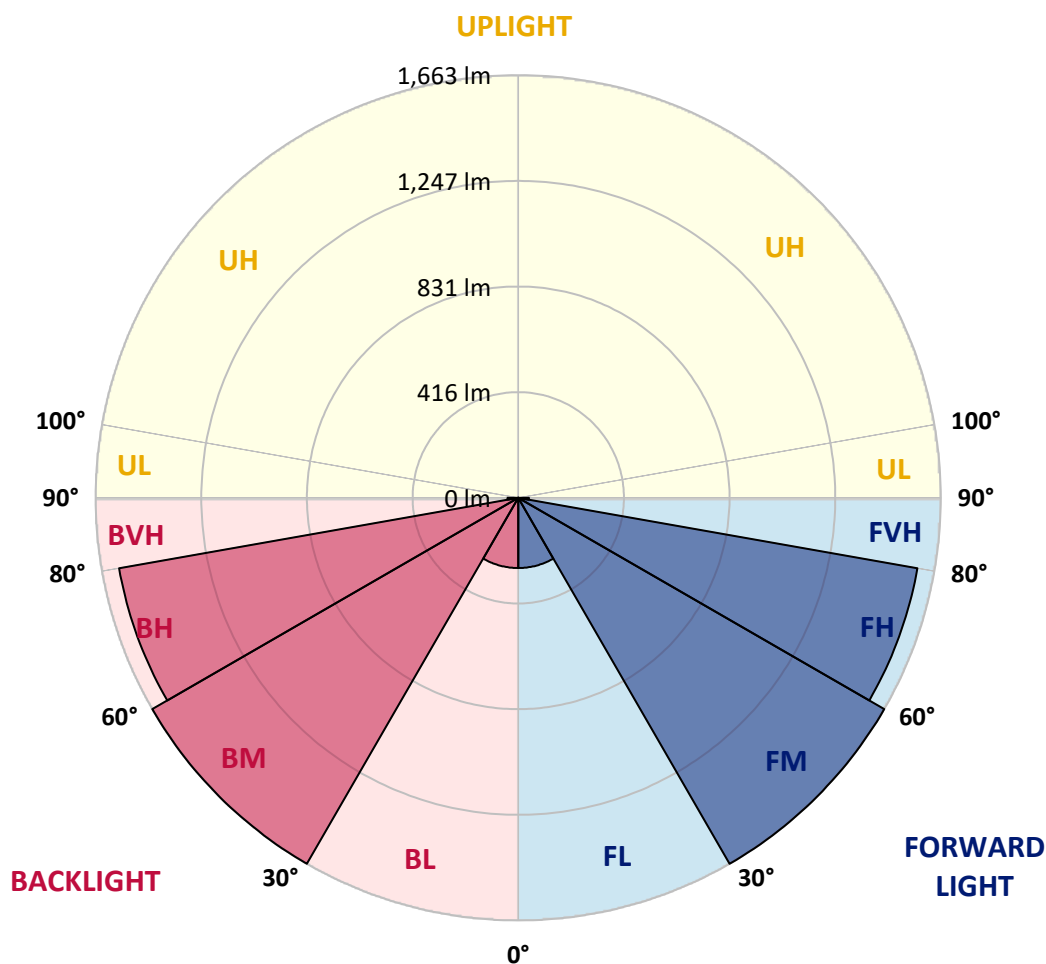
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.2	3.9			
FM	(30°-60°)	1662.9	23.3			
FH	(60°-80°)	1594.9	22.3			G1/1800
FVH	(80°-90°)	42.0	0.6			G1/100
BL	(0°-30°)	276.2	3.9	B1/500		
BM	(30°-60°)	1662.9	23.3	B2/2500		
BH	(60°-80°)	1594.9	22.3	B3/2500		G1/1800
BVH	(80°-90°)	42.0	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°	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6
2.5°	505.2	505.2	503.9	503.9	501.2	499.9	498.6	498.6	497.2	497.2	495.9
5°	507.9	507.9	507.9	506.5	505.2	503.9	501.2	498.6	497.2	495.9	494.6
7.5°	509.2	509.2	507.9	507.9	506.5	505.2	501.2	497.2	495.9	494.6	494.6
10°	519.8	518.5	517.2	514.5	514.5	514.5	509.2	505.2	503.9	503.9	503.9
12.5°	545.1	543.8	541.1	537.1	537.1	538.4	530.5	525.2	525.2	523.8	523.8
15°	582.3	581.0	578.3	571.7	570.4	573.0	561.0	555.7	555.7	555.7	554.4
17.5°	623.5	620.9	616.9	611.6	611.6	611.6	599.6	593.0	589.0	589.0	587.6
20°	658.1	656.8	656.8	655.4	659.4	659.4	643.5	632.8	623.5	618.2	616.9
22.5°	688.7	687.4	690.0	695.3	703.3	706.0	687.4	671.4	656.8	646.1	643.5
25°	729.9	728.6	727.2	735.2	748.5	752.5	732.6	712.6	698.0	692.7	690.0
27.5°	773.8	775.1	776.4	784.4	795.0	801.7	781.7	763.1	751.2	743.2	740.5
30°	823.0	825.6	829.6	841.6	849.5	852.2	834.9	821.6	811.0	804.3	800.4
32.5°	885.4	890.8	896.1	906.7	910.7	908.0	900.1	890.8	882.8	873.5	872.2
35°	978.5	983.8	982.5	986.5	987.8	985.2	981.2	975.9	971.9	959.9	958.6
37.5°	1095.5	1100.8	1092.8	1088.9	1079.6	1080.9	1079.6	1083.5	1084.9	1072.9	1071.6
40°	1213.8	1219.1	1208.5	1197.9	1188.6	1184.6	1191.2	1204.5	1204.5	1196.5	1196.5
42.5°	1340.1	1344.1	1326.8	1313.5	1301.6	1298.9	1302.9	1318.9	1322.9	1321.5	1321.5
45°	1466.4	1463.8	1441.2	1427.9	1417.2	1410.6	1411.9	1423.9	1431.9	1435.9	1435.9
47.5°	1563.5	1559.5	1540.9	1530.3	1523.6	1514.3	1514.3	1520.9	1524.9	1526.3	1526.3
50°	1640.6	1636.6	1618.0	1616.7	1616.7	1612.7	1608.7	1607.4	1604.7	1606.0	1606.0
52.5°	1707.1	1701.8	1688.5	1691.1	1703.1	1705.7	1700.4	1689.8	1679.2	1675.2	1676.5
55°	1778.9	1770.9	1760.3	1768.2	1792.2	1802.8	1794.8	1773.6	1754.9	1743.0	1743.0
57.5°	1836.0	1826.7	1826.7	1849.3	1893.2	1914.5	1897.2	1857.3	1825.4	1812.1	1813.4
60°	1796.2	1788.2	1820.1	1919.8	2002.2	2038.1	2008.9	1938.4	1886.6	1870.6	1873.3
62.5°	1717.7	1712.4	1752.3	1906.5	2100.6	2175.1	2131.2	2030.1	1953.0	1934.4	1934.4
65°	1602.0	1600.7	1656.6	1846.7	2123.2	2306.7	2269.5	2129.9	2030.1	2004.9	2010.2
67.5°	1482.4	1482.4	1532.9	1744.3	2096.6	2362.5	2391.8	2220.3	2067.4	2004.9	2006.2
70°	1271.0	1293.6	1427.9	1649.9	1999.6	2322.6	2442.3	2156.4	1905.2	1794.8	1790.8
72.5°	837.6	866.8	1134.1	1485.0	1903.8	2177.7	2204.3	1894.5	1582.1	1453.1	1446.5
75°	505.2	530.5	735.2	1159.3	1673.8	1753.6	1636.6	1485.0	1181.9	1080.9	1080.9
77.5°	148.9	166.2	339.0	735.2	1158.0	1152.7	1009.1	874.8	699.3	594.3	602.3
80°	87.7	90.4	110.3	335.0	479.9	505.2	389.5	243.3	243.3	180.8	175.5
82.5°	67.8	67.8	70.5	83.8	115.7	129.0	98.4	83.8	95.7	81.1	77.1
85°	47.9	47.9	47.9	49.2	50.5	51.9	54.5	55.8	61.2	50.5	47.9
87.5°	14.6	16.0	17.3	19.9	23.9	25.3	26.6	23.9	23.9	22.6	21.3
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)