

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: P799039

Luminaire Tested: **ARCH1-50-750-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799039
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: ARCH1-50-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6875 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

Input Watts (W): 53
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

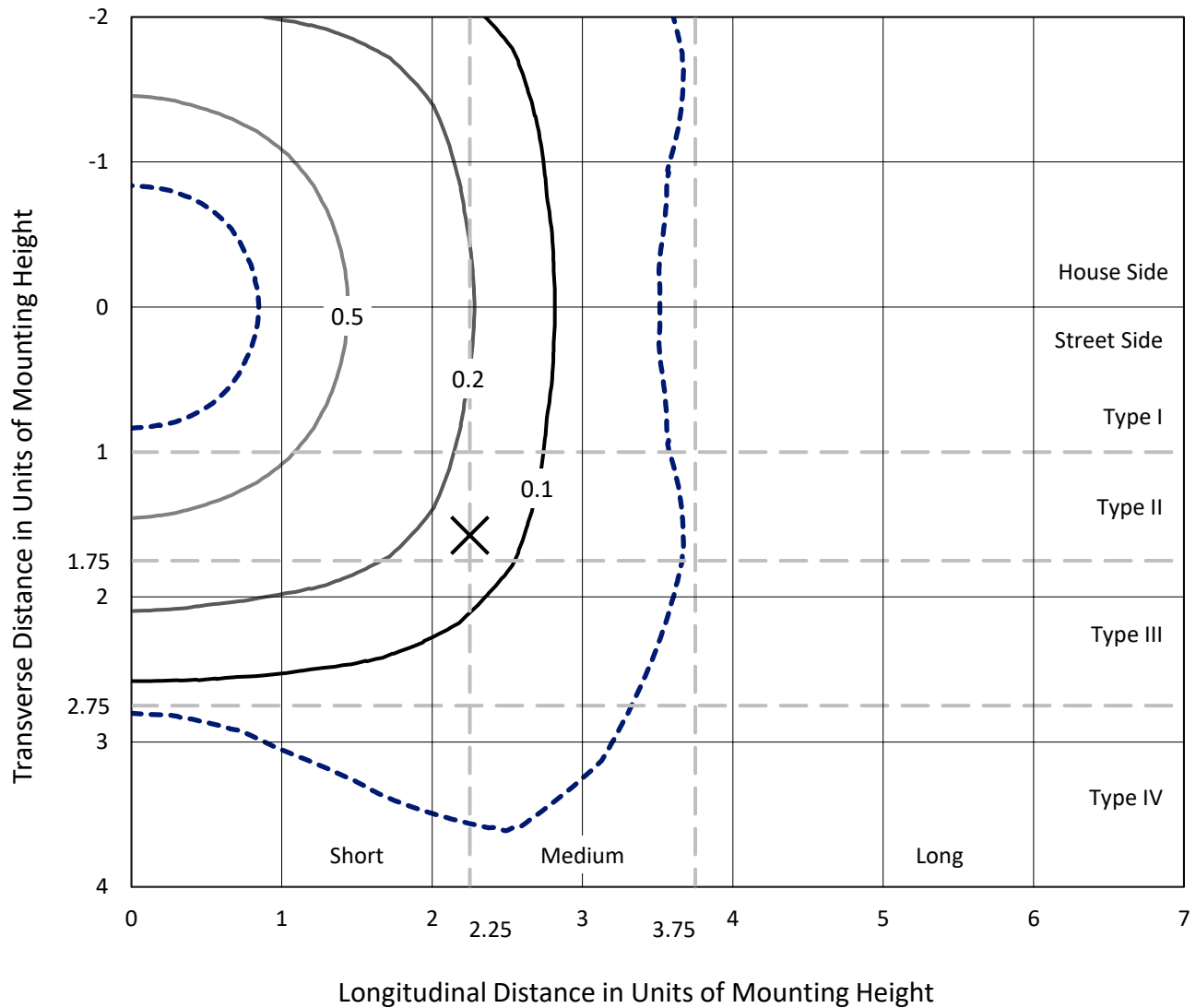


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Iso-Footcandle Lines of Horizontal Illumination

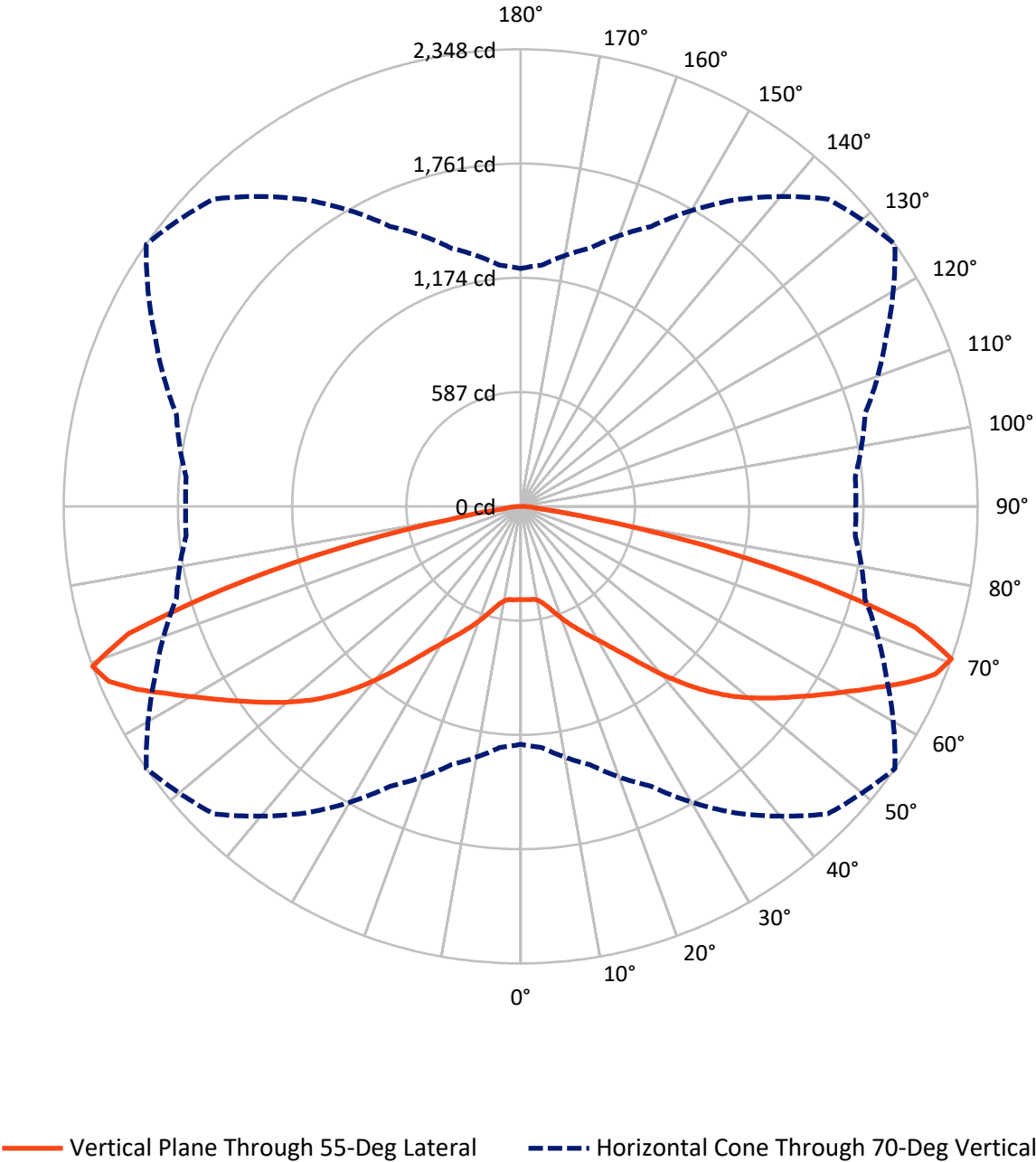
✕ Max cd
- - - 1/2 Max cd



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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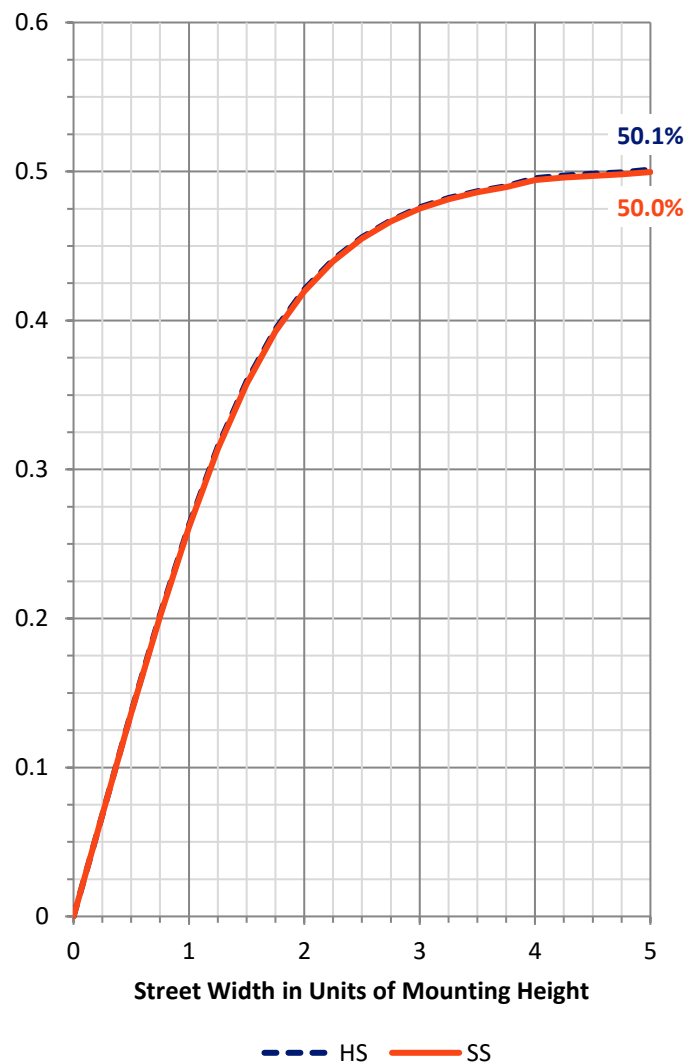
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3437.5	0.0	3437.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3437.5	0.0	3437.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6875.0	0.0	6875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	0.7
10°-20°	157.5	2.3
20°-30°	327.2	4.8
30°-40°	604.3	8.8
40°-50°	1061.6	15.4
50°-60°	1531.1	22.3
60°-70°	1873.9	27.3
70°-80°	1192.4	17.3
80°-90°	80.7	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°	6875.0	100.0
0°-180°	6875.0	100.0

Coefficient of Utilization



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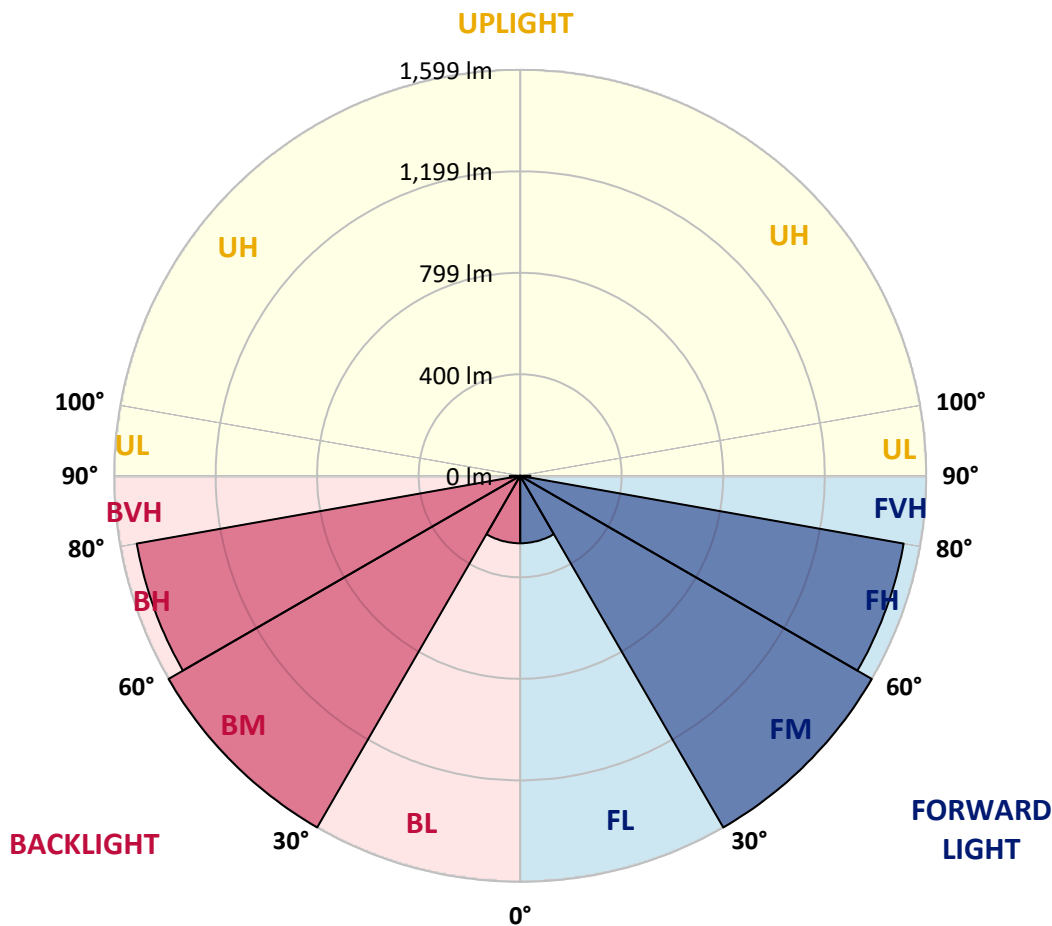
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.5	3.9			
FM	(30°-60°)	1598.5	23.3			
FH	(60°-80°)	1533.2	22.3			G1/1800
FVH	(80°-90°)	40.3	0.6			G1/100
BL	(0°-30°)	265.5	3.9	B1/500		
BM	(30°-60°)	1598.5	23.3	B2/2500		
BH	(60°-80°)	1533.2	22.3	B3/2500		G1/1800
BVH	(80°-90°)	40.3	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-G1

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3	479.3
2.5°	485.6	485.6	484.4	484.4	481.8	480.5	479.3	479.3	478.0	478.0	476.7
5°	488.2	488.2	488.2	486.9	485.6	484.4	481.8	479.3	478.0	476.7	475.4
7.5°	489.5	489.5	488.2	488.2	486.9	485.6	481.8	478.0	476.7	475.4	475.4
10°	499.7	498.4	497.1	494.6	494.6	494.6	489.5	485.6	484.4	484.4	484.4
12.5°	524.0	522.7	520.1	516.3	516.3	517.6	509.9	504.8	504.8	503.5	503.5
15°	559.8	558.5	555.9	549.5	548.3	550.8	539.3	534.2	534.2	534.2	532.9
17.5°	599.4	596.8	593.0	587.9	587.9	587.9	576.4	570.0	566.2	566.2	564.9
20°	632.6	631.3	631.3	630.1	633.9	633.9	618.6	608.3	599.4	594.3	593.0
22.5°	662.0	660.7	663.3	668.4	676.1	678.6	660.7	645.4	631.3	621.1	618.6
25°	701.6	700.3	699.1	706.7	719.5	723.4	704.2	685.0	671.0	665.8	663.3
27.5°	743.8	745.1	746.4	754.0	764.2	770.6	751.5	733.6	722.1	714.4	711.8
30°	791.1	793.6	797.5	809.0	816.6	819.2	802.6	789.8	779.6	773.2	769.4
32.5°	851.2	856.3	861.4	871.6	875.4	872.9	865.2	856.3	848.6	839.7	838.4
35°	940.6	945.7	944.4	948.3	949.6	947.0	943.2	938.1	934.2	922.7	921.4
37.5°	1053.1	1058.2	1050.5	1046.7	1037.7	1039.0	1037.7	1041.6	1042.9	1031.4	1030.1
40°	1166.8	1171.9	1161.7	1151.5	1142.5	1138.7	1145.1	1157.9	1157.9	1150.2	1150.2
42.5°	1288.2	1292.1	1275.5	1262.7	1251.2	1248.6	1252.4	1267.8	1271.6	1270.3	1270.3
45°	1409.6	1407.1	1385.4	1372.6	1362.4	1356.0	1357.2	1368.7	1376.4	1380.2	1380.2
47.5°	1502.9	1499.1	1481.2	1471.0	1464.6	1455.6	1455.6	1462.0	1465.9	1467.2	1467.2
50°	1577.1	1573.2	1555.3	1554.1	1554.1	1550.2	1546.4	1545.1	1542.6	1543.8	1543.8
52.5°	1641.0	1635.8	1623.1	1625.6	1637.1	1639.7	1634.6	1624.3	1614.1	1610.3	1611.6
55°	1710.0	1702.3	1692.1	1699.7	1722.8	1733.0	1725.3	1704.9	1687.0	1675.5	1675.5
57.5°	1764.9	1756.0	1756.0	1777.7	1819.9	1840.3	1823.7	1785.4	1754.7	1741.9	1743.2
60°	1726.6	1718.9	1749.6	1845.4	1924.7	1959.2	1931.1	1863.3	1813.5	1798.2	1800.7
62.5°	1651.2	1646.1	1684.4	1832.7	2019.2	2090.8	2048.6	1951.5	1877.4	1859.5	1859.5
65°	1540.0	1538.7	1592.4	1775.2	2041.0	2217.3	2181.6	2047.4	1951.5	1927.2	1932.3
67.5°	1425.0	1425.0	1473.5	1676.7	2015.4	2271.0	2299.1	2134.3	1987.3	1927.2	1928.5
70°	1221.8	1243.5	1372.6	1586.0	1922.1	2232.7	2347.7	2072.9	1831.4	1725.3	1721.5
72.5°	805.1	833.3	1090.1	1427.5	1830.1	2093.4	2118.9	1821.2	1520.8	1396.9	1390.5
75°	485.6	509.9	706.7	1114.4	1609.0	1685.7	1573.2	1427.5	1136.1	1039.0	1039.0
77.5°	143.1	159.8	325.9	706.7	1113.1	1108.0	970.0	840.9	672.2	571.3	578.9
80°	84.3	86.9	106.1	322.1	461.4	485.6	374.5	233.9	233.9	173.8	168.7
82.5°	65.2	65.2	67.7	80.5	111.2	124.0	94.6	80.5	92.0	78.0	74.1
85°	46.0	46.0	46.0	47.3	48.6	49.8	52.4	53.7	58.8	48.6	46.0
87.5°	14.1	15.3	16.6	19.2	23.0	24.3	25.6	23.0	23.0	21.7	20.4
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)