

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: P799727

Luminaire Tested: **ARCH2-50-722-U-5WQ**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799727  
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: ARCH2-50-722-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

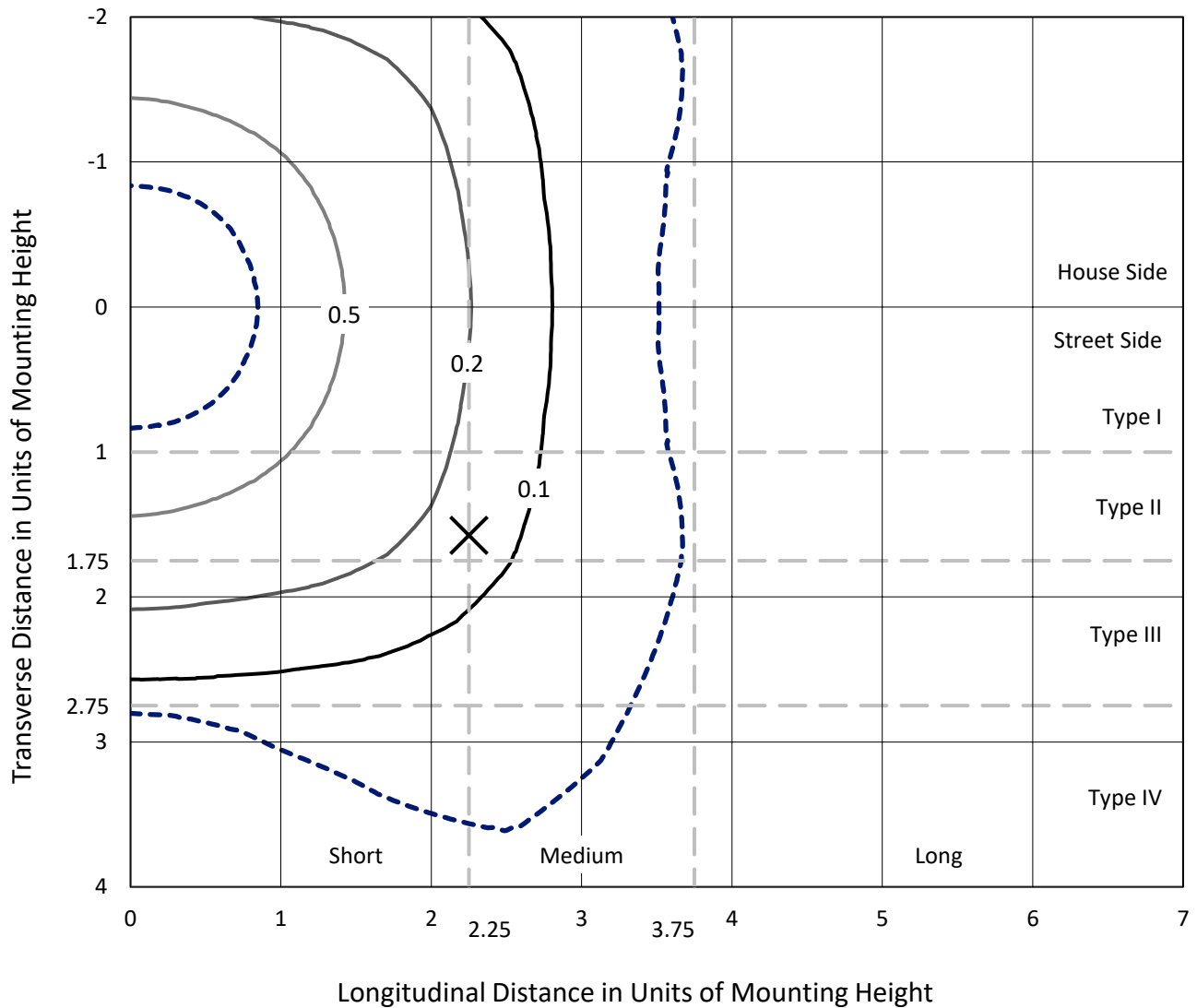
Lumens per Lamp: N/A  
Luminaire Lumens: 6763 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

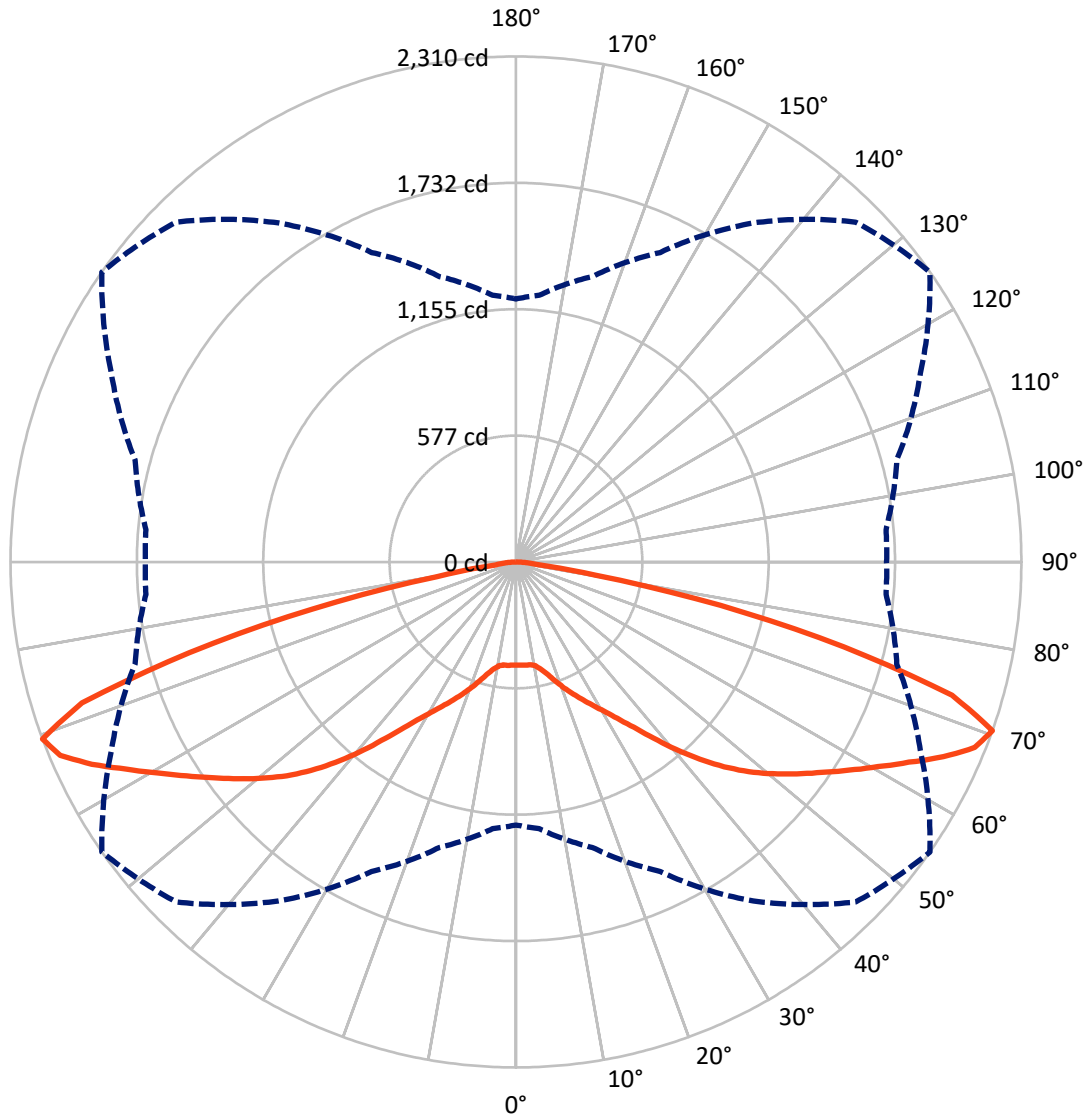
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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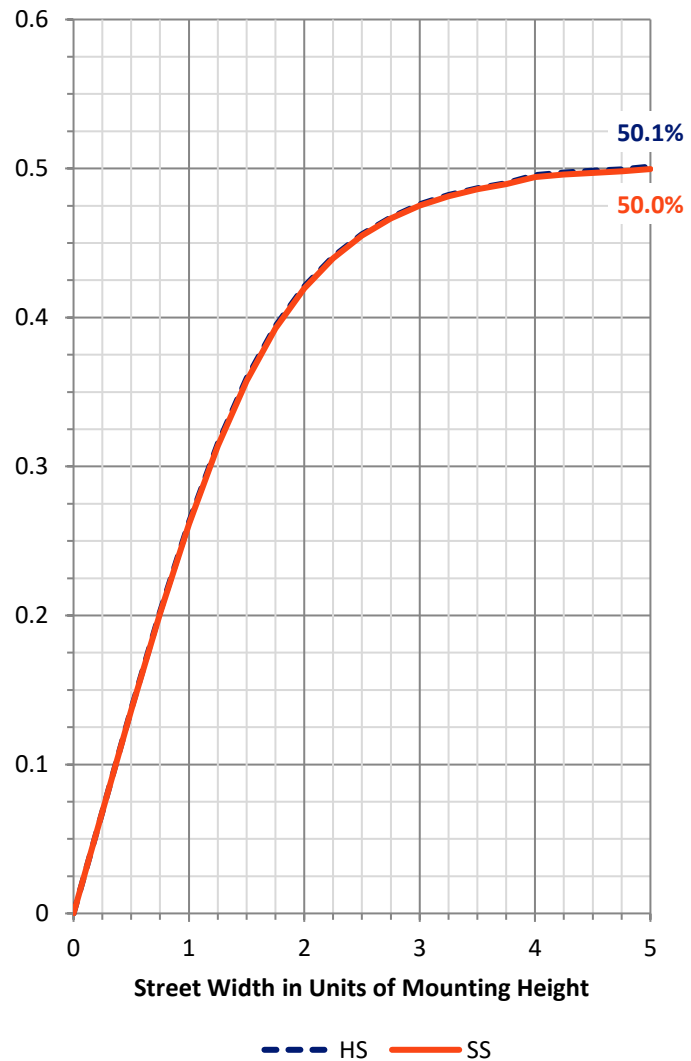
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3381.5	0.0	3381.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3381.5	0.0	3381.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6763.0	0.0	6763.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.5	0.7
10°-20°	154.9	2.3
20°-30°	321.9	4.8
30°-40°	594.5	8.8
40°-50°	1044.3	15.4
50°-60°	1506.2	22.3
60°-70°	1843.4	27.3
70°-80°	1173.0	17.3
80°-90°	79.4	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°	6763.0	100.0
0°-180°	6763.0	100.0

**Coefficient of Utilization**



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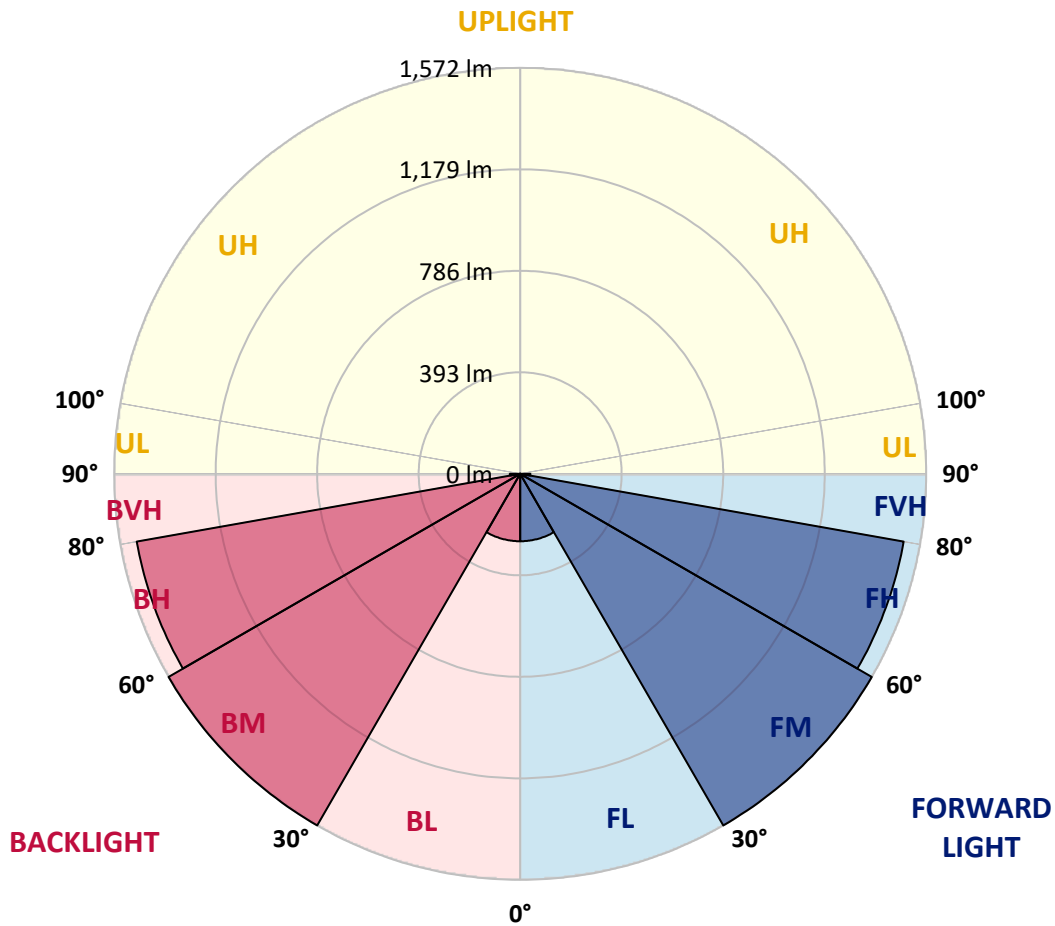
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	261.1	3.9			
FM (30°-60°)	1572.5	23.3			
FH (60°-80°)	1508.2	22.3			G1/1800
FVH (80°-90°)	39.7	0.6			G1/100
BL (0°-30°)	261.1	3.9	B1/500		
BM (30°-60°)	1572.5	23.3	B2/2500		
BH (60°-80°)	1508.2	22.3	B3/2500		G1/1800
BVH (80°-90°)	39.7	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°	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4	471.4
2.5°	477.7	477.7	476.5	476.5	474.0	472.7	471.4	471.4	470.2	470.2	468.9
5°	480.2	480.2	480.2	479.0	477.7	476.5	474.0	471.4	470.2	468.9	467.7
7.5°	481.5	481.5	480.2	480.2	479.0	477.7	474.0	470.2	468.9	467.7	467.7
10°	491.6	490.3	489.0	486.5	486.5	486.5	481.5	477.7	476.5	476.5	476.5
12.5°	515.4	514.2	511.7	507.9	507.9	509.2	501.6	496.6	496.6	495.3	495.3
15°	550.6	549.4	546.9	540.6	539.3	541.8	530.5	525.5	525.5	525.5	524.2
17.5°	589.6	587.1	583.3	578.3	578.3	578.3	567.0	560.7	556.9	556.9	555.7
20°	622.3	621.1	621.1	619.8	623.6	623.6	608.5	598.4	589.6	584.6	583.3
22.5°	651.2	650.0	652.5	657.5	665.1	667.6	650.0	634.9	621.1	611.0	608.5
25°	690.2	688.9	687.7	695.2	707.8	711.6	692.7	673.9	660.0	655.0	652.5
27.5°	731.7	732.9	734.2	741.7	751.8	758.1	739.2	721.6	710.3	702.8	700.3
30°	778.2	780.7	784.5	795.8	803.3	805.9	789.5	776.9	766.9	760.6	756.8
32.5°	837.3	842.3	847.3	857.4	861.2	858.7	851.1	842.3	834.8	826.0	824.7
35°	925.3	930.3	929.1	932.8	934.1	931.6	927.8	922.8	919.0	907.7	906.4
37.5°	1035.9	1041.0	1033.4	1029.6	1020.8	1022.1	1020.8	1024.6	1025.9	1014.5	1013.3
40°	1147.8	1152.8	1142.8	1132.7	1123.9	1120.2	1126.4	1139.0	1139.0	1131.5	1131.5
42.5°	1267.2	1271.0	1254.7	1242.1	1230.8	1228.3	1232.0	1247.1	1250.9	1249.6	1249.6
45°	1386.7	1384.2	1362.8	1350.2	1340.2	1333.9	1335.1	1346.4	1354.0	1357.8	1357.8
47.5°	1478.5	1474.7	1457.1	1447.0	1440.7	1431.9	1431.9	1438.2	1442.0	1443.2	1443.2
50°	1551.4	1547.6	1530.0	1528.7	1528.7	1525.0	1521.2	1519.9	1517.4	1518.7	1518.7
52.5°	1614.2	1609.2	1596.6	1599.1	1610.5	1613.0	1607.9	1597.9	1587.8	1584.1	1585.3
55°	1682.1	1674.6	1664.5	1672.1	1694.7	1704.7	1697.2	1677.1	1659.5	1648.2	1648.2
57.5°	1736.2	1727.4	1727.4	1748.7	1790.2	1810.3	1794.0	1756.3	1726.1	1713.5	1714.8
60°	1698.5	1690.9	1721.1	1815.4	1893.3	1927.3	1899.6	1833.0	1783.9	1768.9	1771.4
62.5°	1624.3	1619.3	1657.0	1802.8	1986.4	2056.8	2015.3	1919.7	1846.8	1829.2	1829.2
65°	1514.9	1513.7	1566.5	1746.2	2007.7	2181.2	2146.0	2014.0	1919.7	1895.8	1900.9
67.5°	1401.8	1401.8	1449.5	1649.4	1982.6	2234.0	2261.7	2099.5	1954.9	1895.8	1897.1
70°	1201.9	1223.2	1350.2	1560.2	1890.8	2196.3	2309.5	2039.2	1801.5	1697.2	1693.4
72.5°	792.0	819.7	1072.4	1404.3	1800.3	2059.3	2084.4	1791.5	1496.1	1374.1	1367.8
75°	477.7	501.6	695.2	1096.3	1582.8	1658.2	1547.6	1404.3	1117.6	1022.1	1022.1
77.5°	140.8	157.1	320.6	695.2	1095.0	1090.0	954.2	827.2	661.3	562.0	569.5
80°	83.0	85.5	104.3	316.8	453.8	477.7	368.4	230.1	230.1	171.0	165.9
82.5°	64.1	64.1	66.6	79.2	109.4	121.9	93.0	79.2	90.5	76.7	72.9
85°	45.3	45.3	45.3	46.5	47.8	49.0	51.5	52.8	57.8	47.8	45.3
87.5°	13.8	15.1	16.3	18.9	22.6	23.9	25.1	22.6	22.6	21.4	20.1
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)