

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: P842368

Luminaire Tested: **ARCH4-40-722-U-5WQ**

Issue Date: 5/27/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P842368  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH4-40-722-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

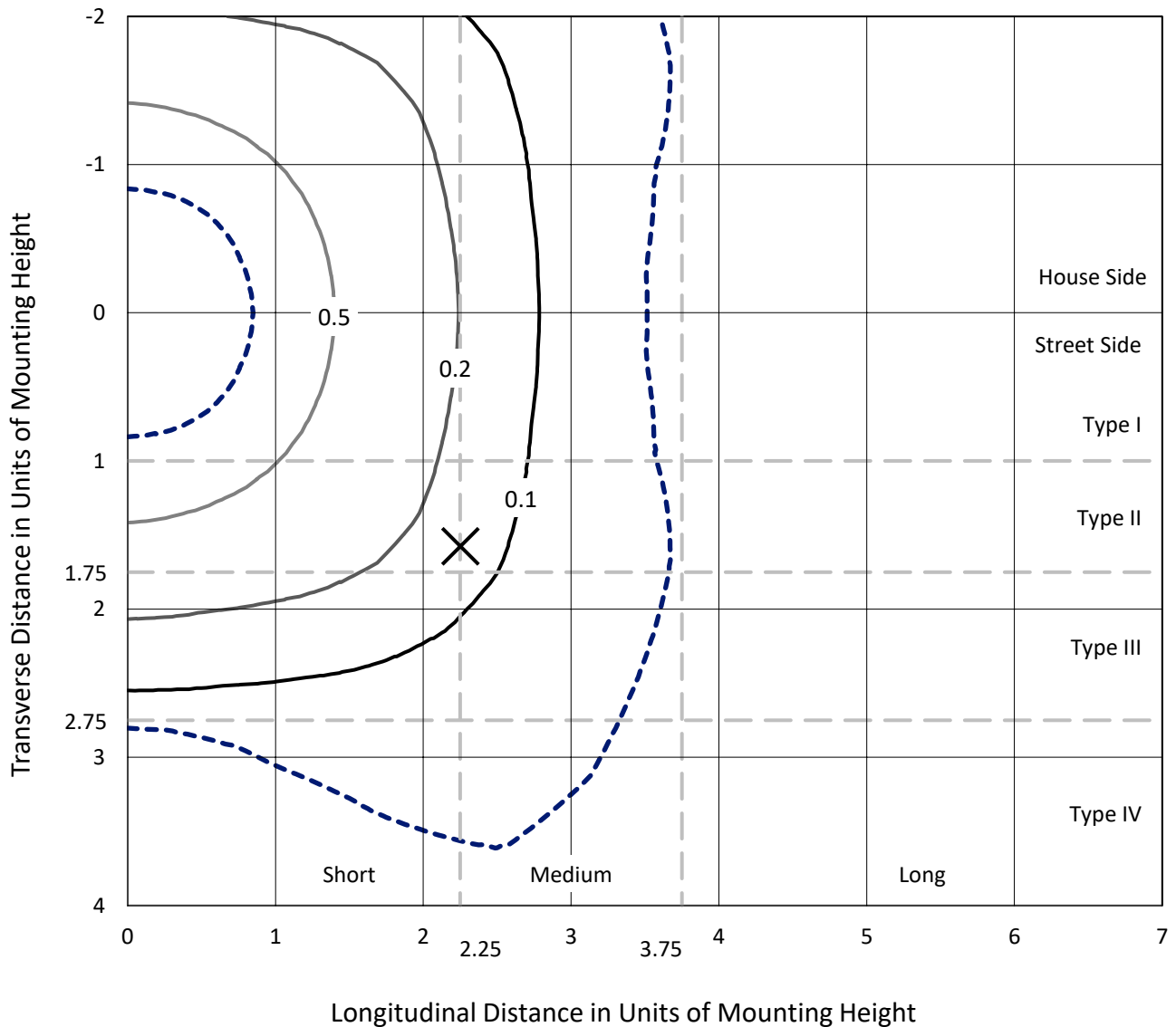
Lumens per Lamp: N/A  
Luminaire Lumens: 6564 lumens  
Efficiency: N/A  
Efficacy: 149.9 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 43.8  
Input Voltage (V): NR  
Input Current (Ain): 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

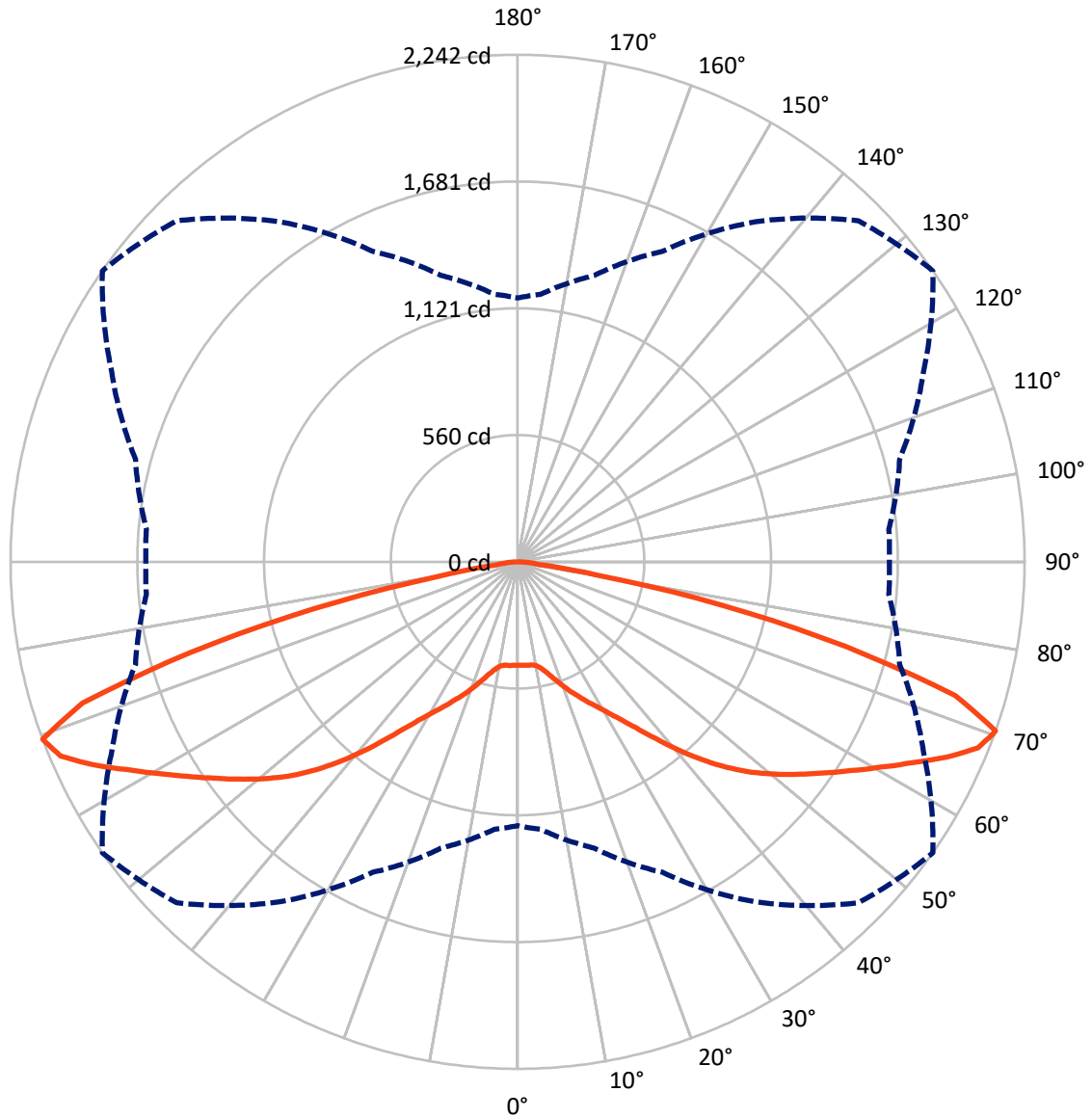
× Max cd  
 - - - 1/2 Max cd



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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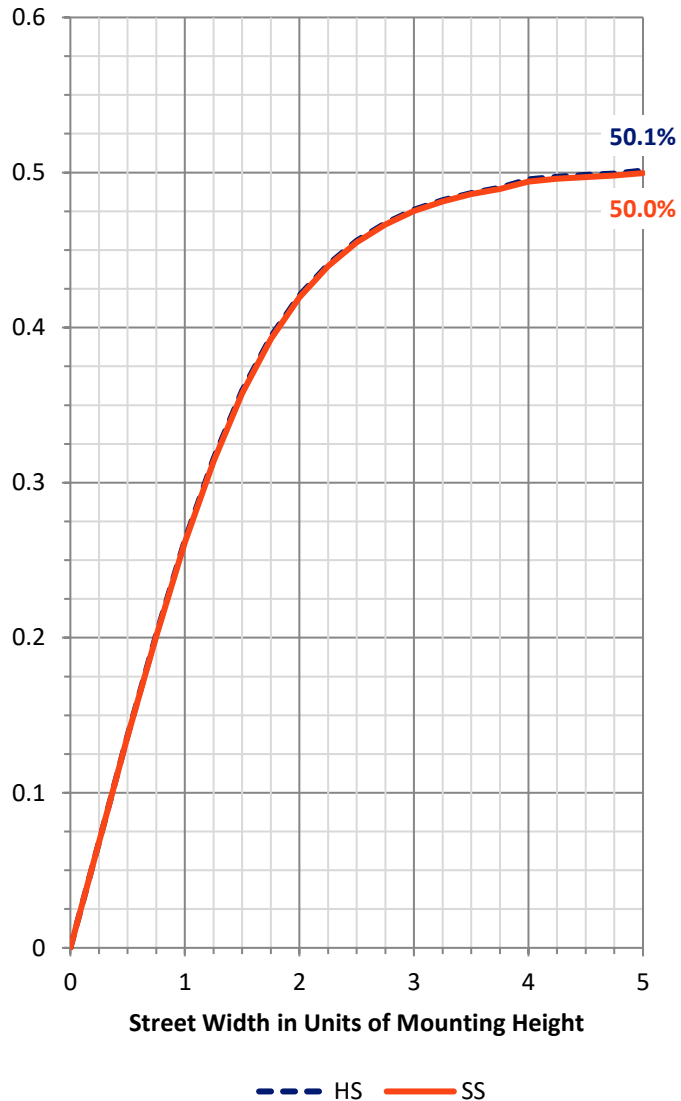
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3282.0	0.0	3282.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3282.0	0.0	3282.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6564.0	0.0	6564.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.2	0.7
10°-20°	150.3	2.3
20°-30°	312.4	4.8
30°-40°	577.0	8.8
40°-50°	1013.6	15.4
50°-60°	1461.9	22.3
60°-70°	1789.2	27.3
70°-80°	1138.5	17.3
80°-90°	77.0	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°	6564.0	100.0
0°-180°	6564.0	100.0

**Coefficient of Utilization**



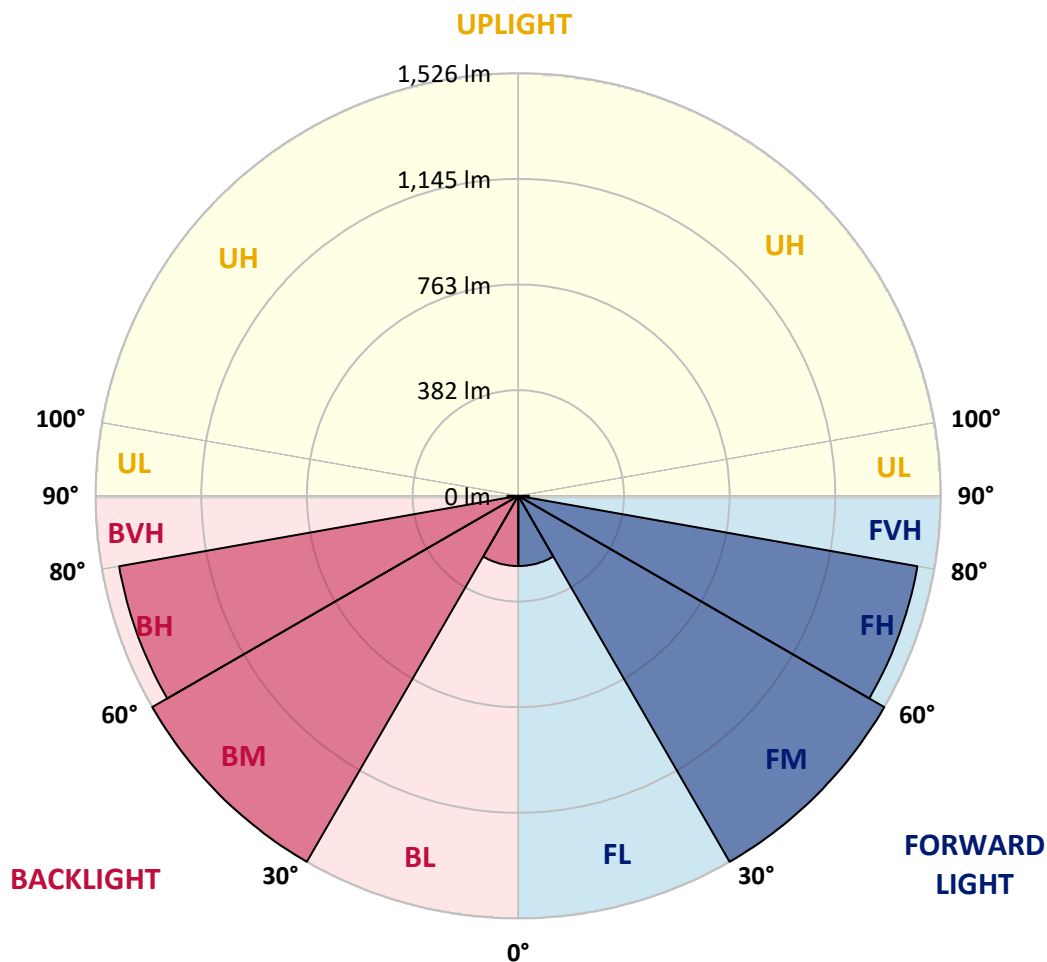
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.5	3.9			
FM (30°-60°)	1526.2	23.3			
FH (60°-80°)	1463.8	22.3			G1/1800
FVH (80°-90°)	38.5	0.6			G1/100
BL (0°-30°)	253.5	3.9	B1/500		
BM (30°-60°)	1526.2	23.3	B2/2500		
BH (60°-80°)	1463.8	22.3	B3/2500		G1/1800
BVH (80°-90°)	38.5	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°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	463.7	463.7	462.5	462.5	460.0	458.8	457.6	457.6	456.4	456.4	455.1
5°	466.1	466.1	466.1	464.9	463.7	462.5	460.0	457.6	456.4	455.1	453.9
7.5°	467.3	467.3	466.1	466.1	464.9	463.7	460.0	456.4	455.1	453.9	453.9
10°	477.1	475.9	474.7	472.2	472.2	472.2	467.3	463.7	462.5	462.5	462.5
12.5°	500.3	499.1	496.6	493.0	493.0	494.2	486.9	482.0	482.0	480.8	480.8
15°	534.4	533.2	530.8	524.7	523.5	525.9	514.9	510.0	510.0	510.0	508.8
17.5°	572.3	569.8	566.2	561.3	561.3	561.3	550.3	544.2	540.5	540.5	539.3
20°	604.0	602.8	602.8	601.6	605.2	605.2	590.6	580.8	572.3	567.4	566.2
22.5°	632.1	630.8	633.3	638.2	645.5	647.9	630.8	616.2	602.8	593.0	590.6
25°	669.9	668.7	667.4	674.8	687.0	690.6	672.3	654.0	640.6	635.7	633.3
27.5°	710.2	711.4	712.6	719.9	729.7	735.8	717.5	700.4	689.4	682.1	679.6
30°	755.3	757.7	761.4	772.4	779.7	782.1	766.3	754.1	744.3	738.2	734.6
32.5°	812.6	817.5	822.4	832.2	835.8	833.4	826.1	817.5	810.2	801.7	800.4
35°	898.1	902.9	901.7	905.4	906.6	904.2	900.5	895.6	892.0	881.0	879.8
37.5°	1005.4	1010.3	1003.0	999.3	990.8	992.0	990.8	994.5	995.7	984.7	983.5
40°	1114.0	1118.9	1109.2	1099.4	1090.9	1087.2	1093.3	1105.5	1105.5	1098.2	1098.2
42.5°	1230.0	1233.6	1217.8	1205.6	1194.6	1192.1	1195.8	1210.4	1214.1	1212.9	1212.9
45°	1345.9	1343.4	1322.7	1310.5	1300.7	1294.6	1295.8	1306.8	1314.1	1317.8	1317.8
47.5°	1434.9	1431.3	1414.2	1404.4	1398.3	1389.8	1389.8	1395.9	1399.6	1400.8	1400.8
50°	1505.7	1502.1	1485.0	1483.8	1483.8	1480.1	1476.4	1475.2	1472.8	1474.0	1474.0
52.5°	1566.7	1561.8	1549.6	1552.1	1563.1	1565.5	1560.6	1550.9	1541.1	1537.4	1538.7
55°	1632.6	1625.3	1615.5	1622.9	1644.8	1654.6	1647.3	1627.7	1610.7	1599.7	1599.7
57.5°	1685.1	1676.5	1676.5	1697.3	1737.6	1757.1	1741.2	1704.6	1675.3	1663.1	1664.3
60°	1648.5	1641.2	1670.4	1762.0	1837.6	1870.6	1843.7	1779.0	1731.5	1716.8	1719.3
62.5°	1576.5	1571.6	1608.2	1749.8	1927.9	1996.2	1956.0	1863.2	1792.5	1775.4	1775.4
65°	1470.3	1469.1	1520.4	1694.8	1948.6	2117.0	2082.9	1954.8	1863.2	1840.1	1844.9
67.5°	1360.5	1360.5	1406.9	1600.9	1924.2	2168.3	2195.1	2037.7	1897.4	1840.1	1841.3
70°	1166.5	1187.2	1310.5	1514.3	1835.2	2131.7	2241.5	1979.2	1748.5	1647.3	1643.6
72.5°	768.7	795.6	1040.8	1363.0	1747.3	1998.7	2023.1	1738.8	1452.0	1333.7	1327.6
75°	463.7	486.9	674.8	1064.0	1536.2	1609.4	1502.1	1363.0	1084.8	992.0	992.0
77.5°	136.7	152.5	311.1	674.8	1062.8	1057.9	926.1	802.9	641.8	545.4	552.7
80°	80.5	83.0	101.3	307.5	440.5	463.7	357.5	223.3	223.3	165.9	161.1
82.5°	62.2	62.2	64.7	76.9	106.2	118.4	90.3	76.9	87.9	74.4	70.8
85°	43.9	43.9	43.9	45.1	46.4	47.6	50.0	51.2	56.1	46.4	43.9
87.5°	13.4	14.6	15.9	18.3	22.0	23.2	24.4	22.0	22.0	20.7	19.5
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)