

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: P799103

Luminaire Tested: **ARCH1-60-727-U-5WQ**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799103  
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: ARCH1-60-727-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6849 lumens  
Efficiency: N/A  
Efficacy: 114.1 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

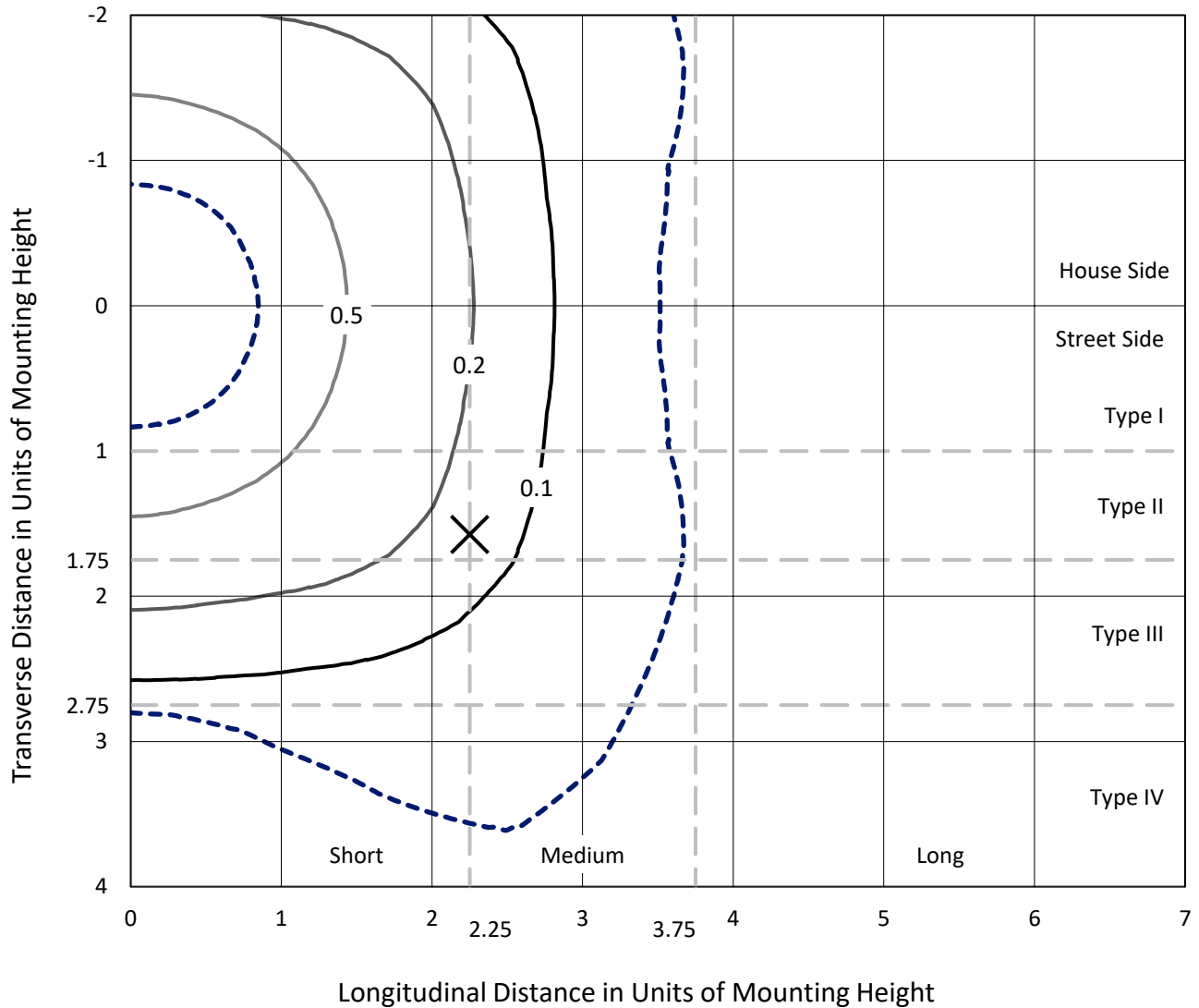
Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

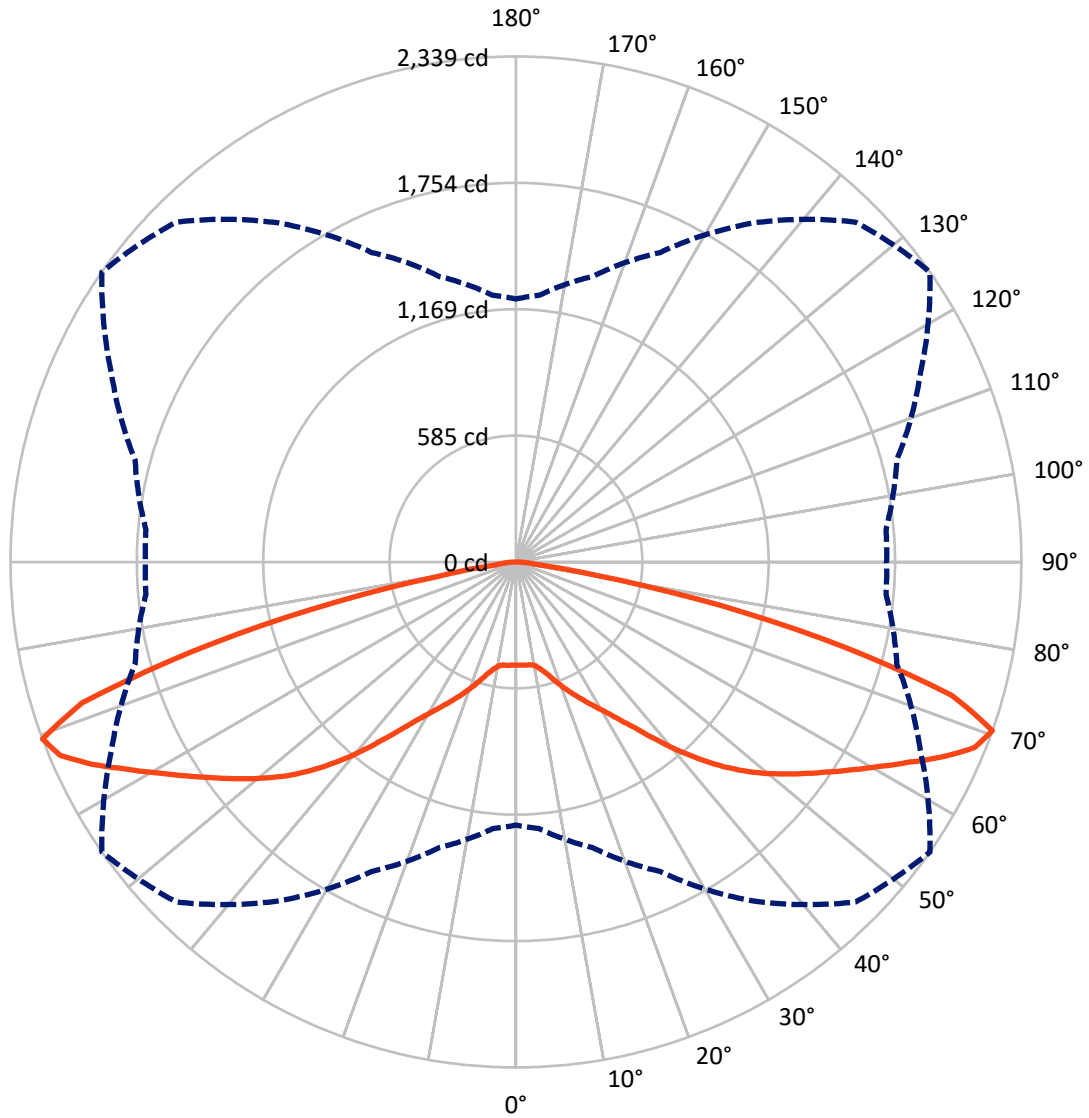
✕ Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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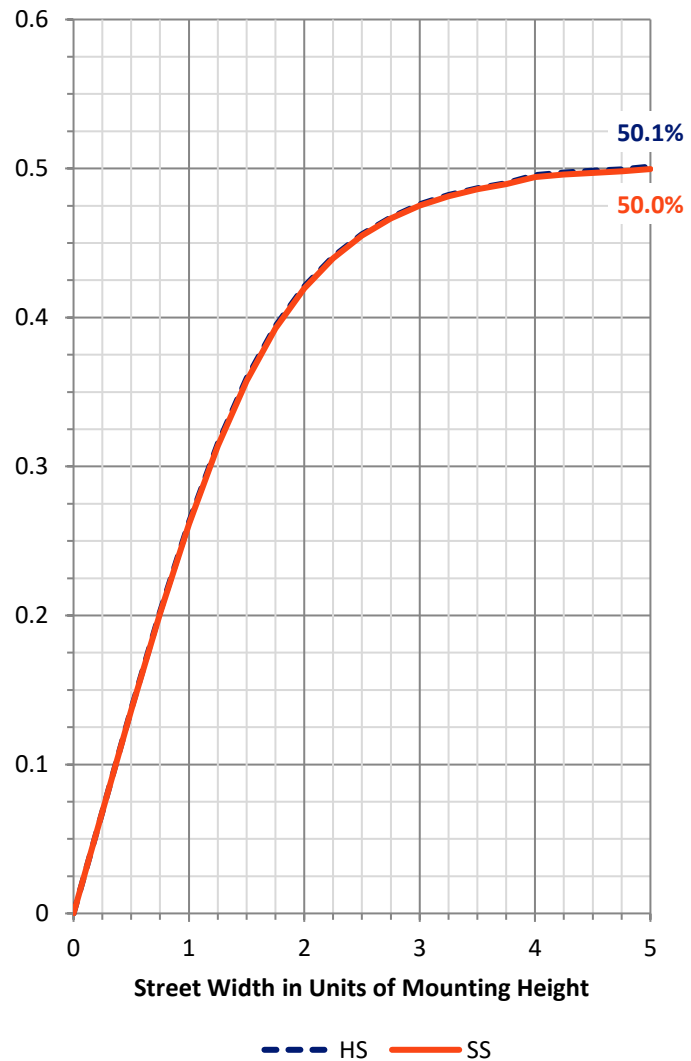
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3424.5	0.0	3424.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3424.5	0.0	3424.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6849.0	0.0	6849.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	0.7
10°-20°	156.9	2.3
20°-30°	326.0	4.8
30°-40°	602.0	8.8
40°-50°	1057.6	15.4
50°-60°	1525.3	22.3
60°-70°	1866.8	27.3
70°-80°	1187.9	17.3
80°-90°	80.4	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°	6849.0	100.0
0°-180°	6849.0	100.0

**Coefficient of Utilization**



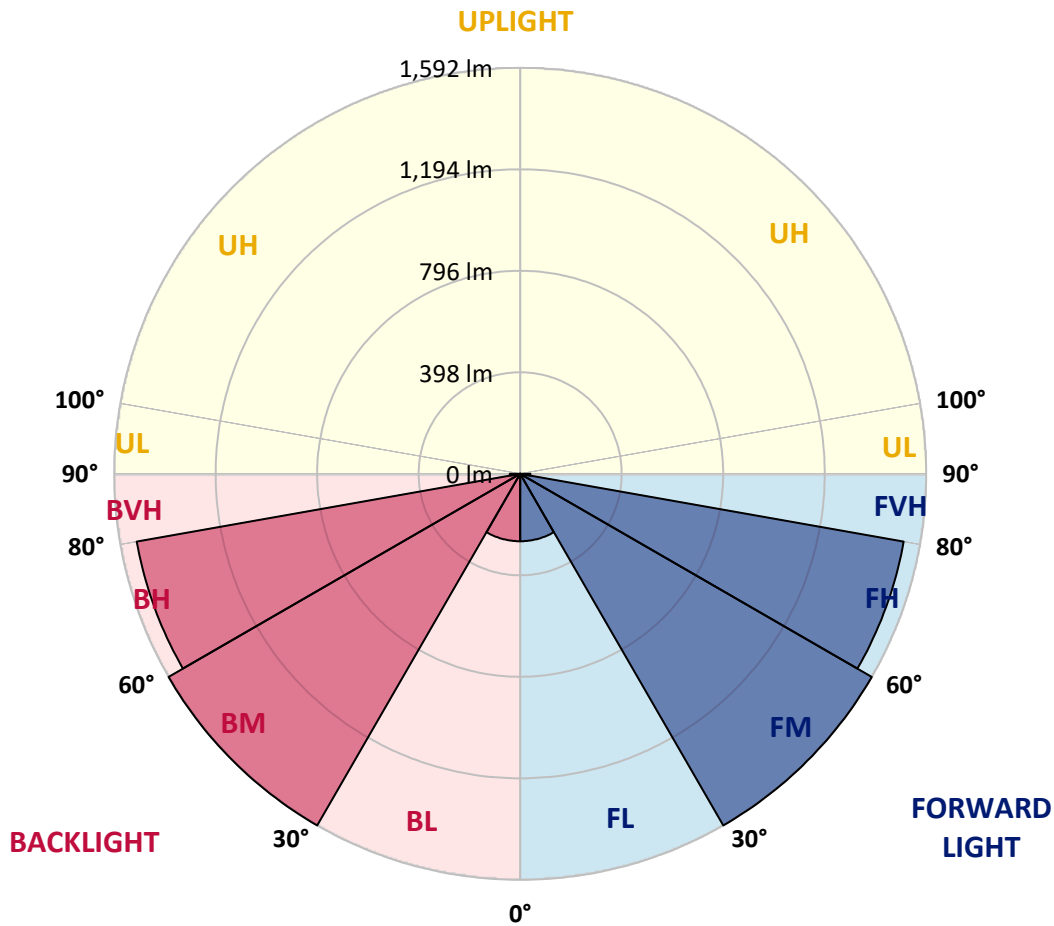
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.5	3.9			
FM (30°-60°)	1592.5	23.3			
FH (60°-80°)	1527.4	22.3			G1/1800
FVH (80°-90°)	40.2	0.6			G1/100
BL (0°-30°)	264.5	3.9	B1/500		
BM (30°-60°)	1592.5	23.3	B2/2500		
BH (60°-80°)	1527.4	22.3	B3/2500		G1/1800
BVH (80°-90°)	40.2	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°	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4	477.4
2.5°	483.8	483.8	482.5	482.5	480.0	478.7	477.4	477.4	476.2	476.2	474.9
5°	486.4	486.4	486.4	485.1	483.8	482.5	480.0	477.4	476.2	474.9	473.6
7.5°	487.6	487.6	486.4	486.4	485.1	483.8	480.0	476.2	474.9	473.6	473.6
10°	497.8	496.5	495.3	492.7	492.7	492.7	487.6	483.8	482.5	482.5	482.5
12.5°	522.0	520.7	518.2	514.4	514.4	515.6	508.0	502.9	502.9	501.6	501.6
15°	557.6	556.4	553.8	547.5	546.2	548.7	537.3	532.2	532.2	532.2	530.9
17.5°	597.1	594.6	590.8	585.7	585.7	585.7	574.2	567.8	564.0	564.0	562.7
20°	630.2	628.9	628.9	627.7	631.5	631.5	616.2	606.0	597.1	592.0	590.8
22.5°	659.5	658.2	660.8	665.9	673.5	676.1	658.2	643.0	628.9	618.8	616.2
25°	699.0	697.7	696.4	704.1	716.8	720.6	701.5	682.4	668.4	663.3	660.8
27.5°	741.0	742.3	743.5	751.2	761.4	767.7	748.6	730.8	719.3	711.7	709.2
30°	788.1	790.6	794.5	805.9	813.6	816.1	799.6	786.8	776.6	770.3	766.5
32.5°	847.9	853.0	858.1	868.3	872.1	869.6	861.9	853.0	845.4	836.5	835.2
35°	937.1	942.1	940.9	944.7	946.0	943.4	939.6	934.5	930.7	919.2	918.0
37.5°	1049.1	1054.2	1046.5	1042.7	1033.8	1035.1	1033.8	1037.6	1038.9	1027.5	1026.2
40°	1162.4	1167.5	1157.3	1147.1	1138.2	1134.4	1140.8	1153.5	1153.5	1145.9	1145.9
42.5°	1283.4	1287.2	1270.6	1257.9	1246.4	1243.9	1247.7	1263.0	1266.8	1265.5	1265.5
45°	1404.3	1401.8	1380.1	1367.4	1357.2	1350.8	1352.1	1363.6	1371.2	1375.0	1375.0
47.5°	1497.3	1493.4	1475.6	1465.4	1459.1	1450.1	1450.1	1456.5	1460.3	1461.6	1461.6
50°	1571.1	1567.3	1549.5	1548.2	1548.2	1544.4	1540.5	1539.3	1536.7	1538.0	1538.0
52.5°	1634.8	1629.7	1616.9	1619.5	1630.9	1633.5	1628.4	1618.2	1608.0	1604.2	1605.5
55°	1703.5	1695.9	1685.7	1693.3	1716.2	1726.4	1718.8	1698.4	1680.6	1669.1	1669.1
57.5°	1758.3	1749.3	1749.3	1771.0	1813.0	1833.4	1816.8	1778.6	1748.1	1735.3	1736.6
60°	1720.1	1712.4	1743.0	1838.5	1917.4	1951.8	1923.8	1856.3	1806.6	1791.4	1793.9
62.5°	1644.9	1639.8	1678.0	1825.7	2011.6	2082.9	2040.9	1944.1	1870.3	1852.5	1852.5
65°	1534.2	1532.9	1586.4	1768.4	2033.3	2209.0	2173.3	2039.6	1944.1	1919.9	1925.0
67.5°	1419.6	1419.6	1468.0	1670.4	2007.8	2262.4	2290.4	2126.2	1979.8	1919.9	1921.2
70°	1217.2	1238.8	1367.4	1580.0	1914.9	2224.2	2338.8	2065.1	1824.5	1718.8	1715.0
72.5°	802.1	830.1	1086.0	1422.1	1823.2	2085.5	2110.9	1814.3	1515.1	1391.6	1385.2
75°	483.8	508.0	704.1	1110.2	1602.9	1679.3	1567.3	1422.1	1131.9	1035.1	1035.1
77.5°	142.6	159.1	324.7	704.1	1108.9	1103.8	966.3	837.7	669.7	569.1	576.7
80°	84.0	86.6	105.7	320.8	459.6	483.8	373.0	233.0	233.0	173.2	168.1
82.5°	64.9	64.9	67.5	80.2	110.8	123.5	94.2	80.2	91.7	77.7	73.8
85°	45.8	45.8	45.8	47.1	48.4	49.7	52.2	53.5	58.6	48.4	45.8
87.5°	14.0	15.3	16.6	19.1	22.9	24.2	25.5	22.9	22.9	21.6	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)