

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: P836521

Luminaire Tested: **ARCH3-40-722-U-5WQ**

Issue Date: 5/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P836521  
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: ARCH3-40-722-U-5WQ  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

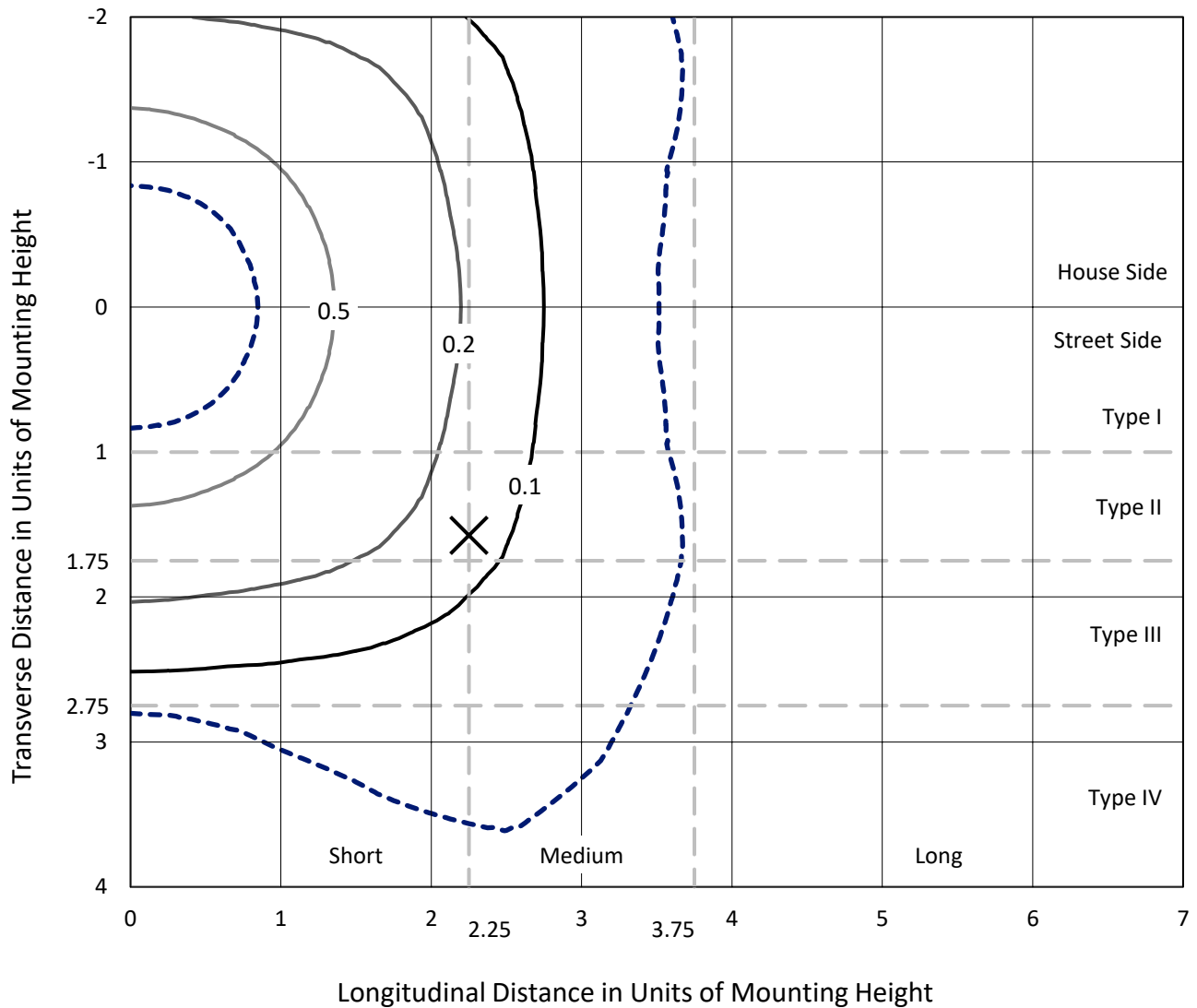
Lumens per Lamp: N/A  
Luminaire Lumens: 6258 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 43.6  
Input Voltage (V): NR  
Input Current (Ain): 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

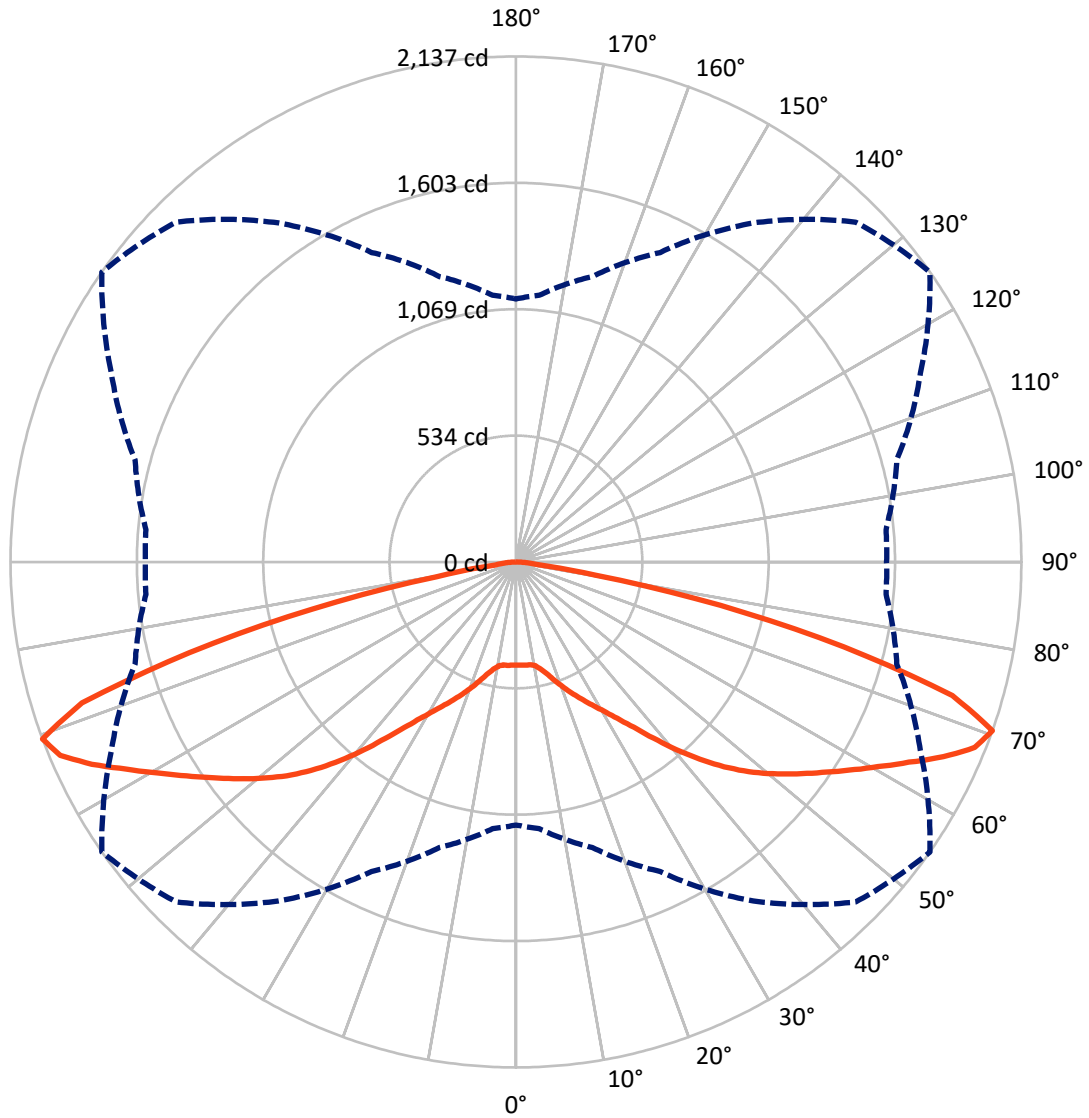
✕ Max cd  
 - - - 1/2 Max cd



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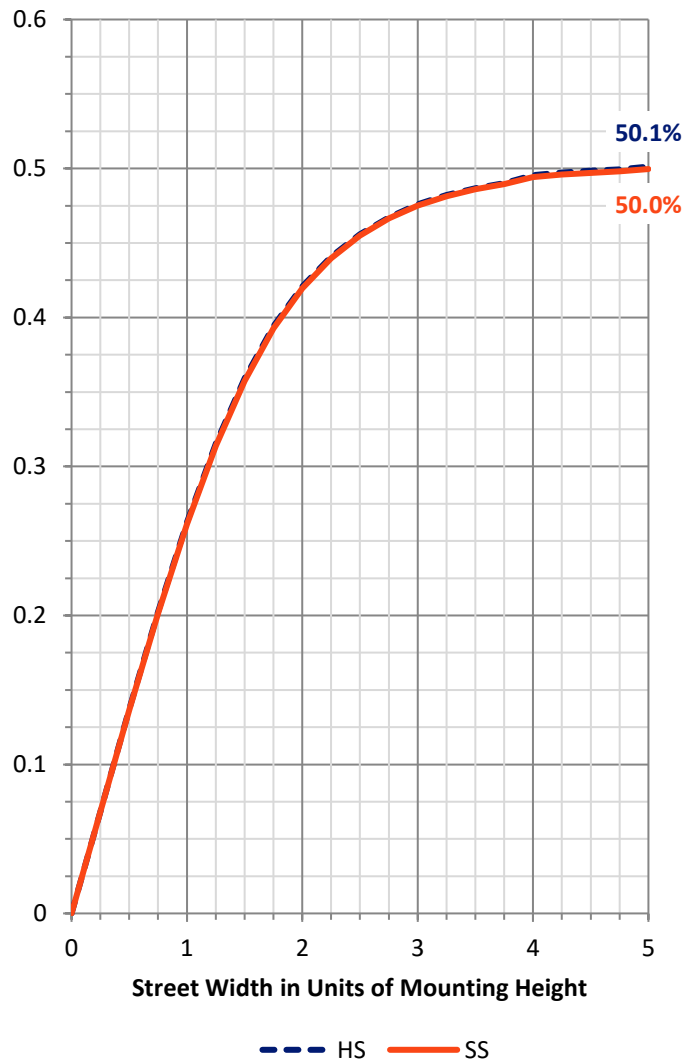
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3129.0	0.0	3129.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3129.0	0.0	3129.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6258.0	0.0	6258.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.1	0.7
10°-20°	143.3	2.3
20°-30°	297.8	4.8
30°-40°	550.1	8.8
40°-50°	966.4	15.4
50°-60°	1393.7	22.3
60°-70°	1705.7	27.3
70°-80°	1085.4	17.3
80°-90°	73.4	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°	6258.0	100.0
0°-180°	6258.0	100.0

**Coefficient of Utilization**



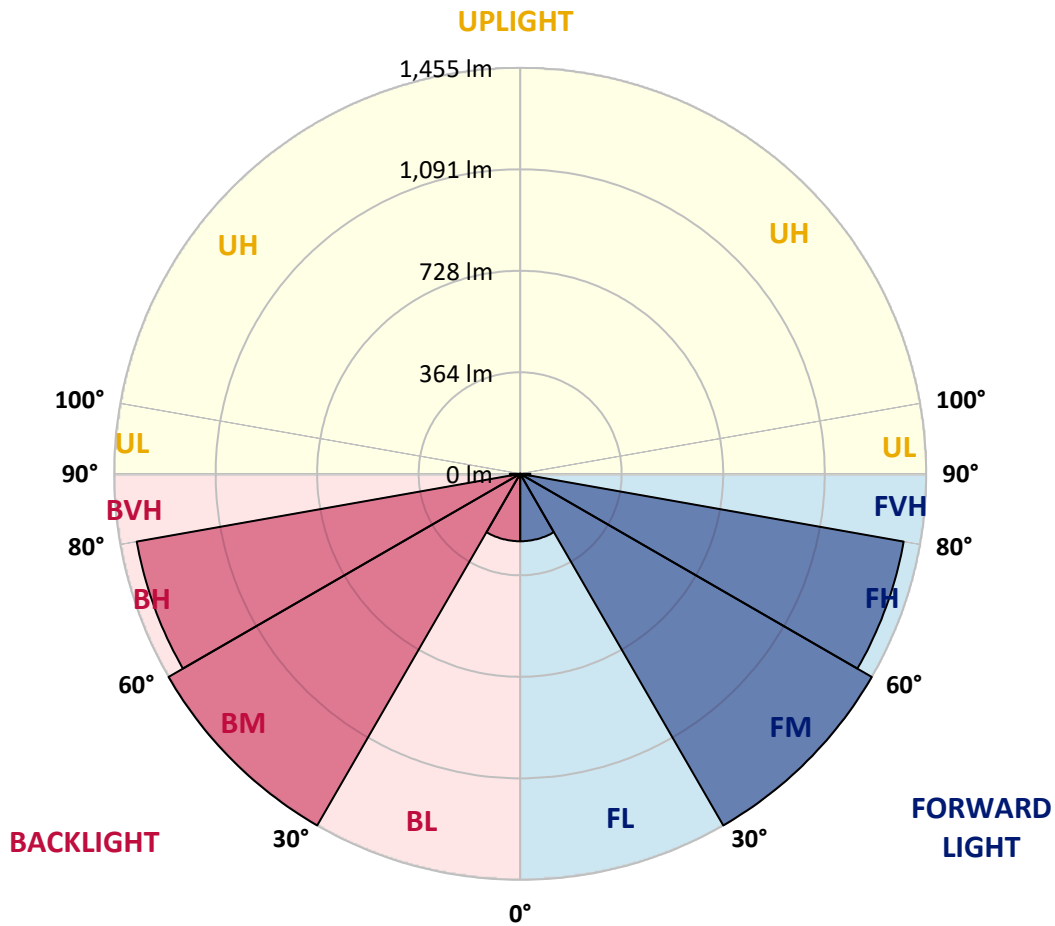
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.6	3.9			
FM (30°-60°)	1455.1	23.3			
FH (60°-80°)	1395.6	22.3			G1/1800
FVH (80°-90°)	36.7	0.6			G1/100
BL (0°-30°)	241.6	3.9	B1/500		
BM (30°-60°)	1455.1	23.3	B2/2500		
BH (60°-80°)	1395.6	22.3	B3/2500		G1/1800
BVH (80°-90°)	36.7	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°	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2	436.2
2.5°	442.1	442.1	440.9	440.9	438.6	437.4	436.2	436.2	435.1	435.1	433.9
5°	444.4	444.4	444.4	443.2	442.1	440.9	438.6	436.2	435.1	433.9	432.8
7.5°	445.5	445.5	444.4	444.4	443.2	442.1	438.6	435.1	433.9	432.8	432.8
10°	454.9	453.7	452.5	450.2	450.2	450.2	445.5	442.1	440.9	440.9	440.9
12.5°	477.0	475.8	473.5	470.0	470.0	471.1	464.2	459.5	459.5	458.3	458.3
15°	509.5	508.4	506.0	500.2	499.1	501.4	490.9	486.3	486.3	486.3	485.1
17.5°	545.6	543.3	539.8	535.1	535.1	535.1	524.7	518.8	515.3	515.3	514.2
20°	575.8	574.7	574.7	573.5	577.0	577.0	563.0	553.7	545.6	540.9	539.8
22.5°	602.6	601.4	603.8	608.4	615.4	617.7	601.4	587.5	574.7	565.4	563.0
25°	638.7	637.5	636.3	643.3	654.9	658.4	641.0	623.5	610.7	606.1	603.8
27.5°	677.0	678.2	679.4	686.4	695.7	701.5	684.0	667.7	657.3	650.3	648.0
30°	720.1	722.4	725.9	736.4	743.4	745.7	730.6	718.9	709.6	703.8	700.3
32.5°	774.8	779.4	784.1	793.4	796.9	794.5	787.6	779.4	772.4	764.3	763.1
35°	856.2	860.9	859.7	863.2	864.3	862.0	858.5	853.9	850.4	839.9	838.7
37.5°	958.6	963.2	956.2	952.8	944.6	945.8	944.6	948.1	949.3	938.8	937.6
40°	1062.1	1066.8	1057.4	1048.1	1040.0	1036.5	1042.3	1054.0	1054.0	1047.0	1047.0
42.5°	1172.6	1176.1	1161.0	1149.4	1138.9	1136.6	1140.0	1154.0	1157.5	1156.3	1156.3
45°	1283.1	1280.8	1261.0	1249.4	1240.1	1234.3	1235.4	1245.9	1252.9	1256.4	1256.4
47.5°	1368.1	1364.6	1348.3	1339.0	1333.2	1325.0	1325.0	1330.8	1334.3	1335.5	1335.5
50°	1435.5	1432.0	1415.7	1414.6	1414.6	1411.1	1407.6	1406.4	1404.1	1405.3	1405.3
52.5°	1493.7	1489.0	1477.4	1479.7	1490.2	1492.5	1487.9	1478.6	1469.3	1465.8	1466.9
55°	1556.5	1549.5	1540.2	1547.2	1568.1	1577.4	1570.5	1551.9	1535.6	1525.1	1525.1
57.5°	1606.5	1598.4	1598.4	1618.2	1656.6	1675.2	1660.0	1625.1	1597.2	1585.6	1586.8
60°	1571.6	1564.7	1592.6	1679.8	1751.9	1783.4	1757.8	1696.1	1650.7	1636.8	1639.1
62.5°	1503.0	1498.3	1533.2	1668.2	1838.0	1903.2	1864.8	1776.4	1708.9	1692.6	1692.6
65°	1401.8	1400.6	1449.5	1615.8	1857.8	2018.3	1985.8	1863.6	1776.4	1754.3	1758.9
67.5°	1297.1	1297.1	1341.3	1526.3	1834.5	2067.2	2092.8	1942.7	1808.9	1754.3	1755.4
70°	1112.1	1131.9	1249.4	1443.7	1749.6	2032.3	2137.0	1886.9	1667.0	1570.5	1567.0
72.5°	732.9	758.5	992.3	1299.4	1665.9	1905.5	1928.8	1657.7	1384.3	1271.5	1265.7
75°	442.1	464.2	643.3	1014.4	1464.6	1534.4	1432.0	1299.4	1034.2	945.8	945.8
77.5°	130.3	145.4	296.6	643.3	1013.2	1008.6	883.0	765.5	611.9	520.0	527.0
80°	76.8	79.1	96.6	293.2	420.0	442.1	340.9	212.9	212.9	158.2	153.6
82.5°	59.3	59.3	61.7	73.3	101.2	112.8	86.1	73.3	83.8	71.0	67.5
85°	41.9	41.9	41.9	43.0	44.2	45.4	47.7	48.9	53.5	44.2	41.9
87.5°	12.8	14.0	15.1	17.4	20.9	22.1	23.3	20.9	20.9	19.8	18.6
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)