

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: P798959

Luminaire Tested: **ARCH1-50-722-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798959
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: ARCH1-50-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5729 lumens
Efficiency: N/A
Efficacy: 108.1 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

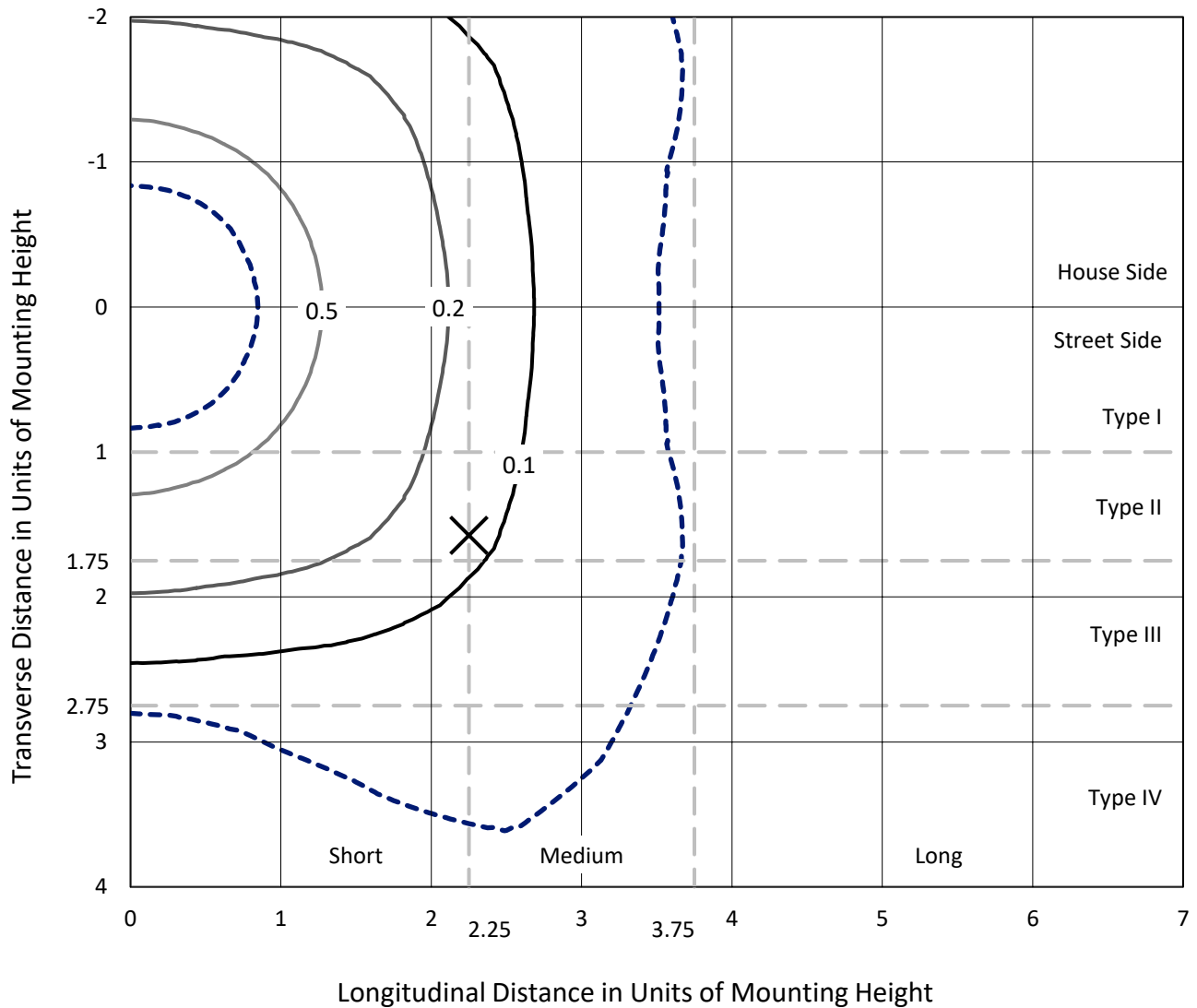
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

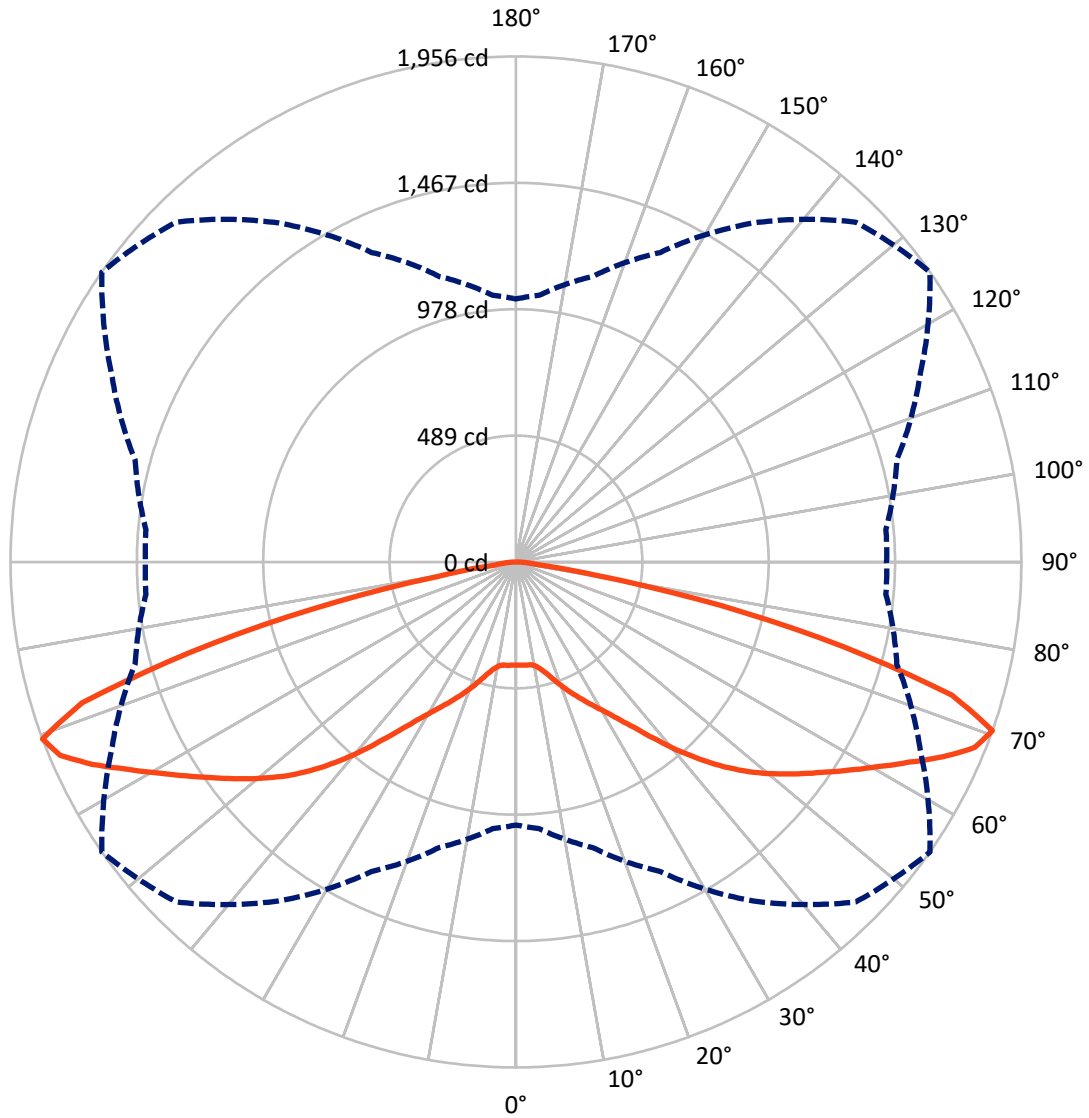
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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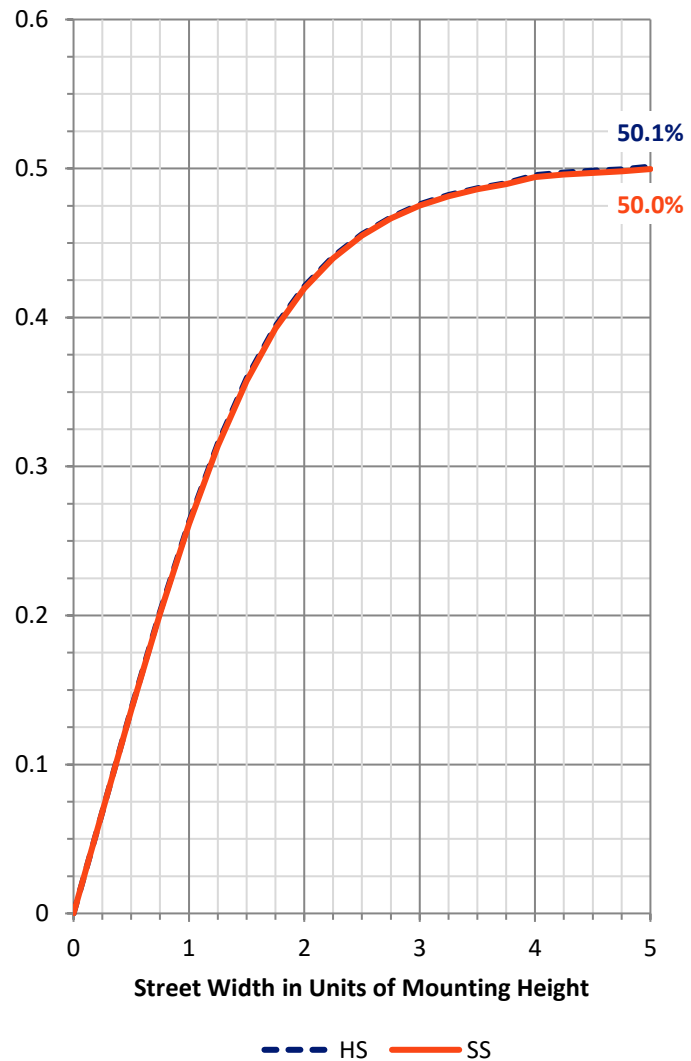
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2864.5	0.0	2864.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2864.5	0.0	2864.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5729.0	0.0	5729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	0.7
10°-20°	131.2	2.3
20°-30°	272.6	4.8
30°-40°	503.6	8.8
40°-50°	884.7	15.4
50°-60°	1275.9	22.3
60°-70°	1561.6	27.3
70°-80°	993.7	17.3
80°-90°	67.2	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°	5729.0	100.0
0°-180°	5729.0	100.0

Coefficient of Utilization



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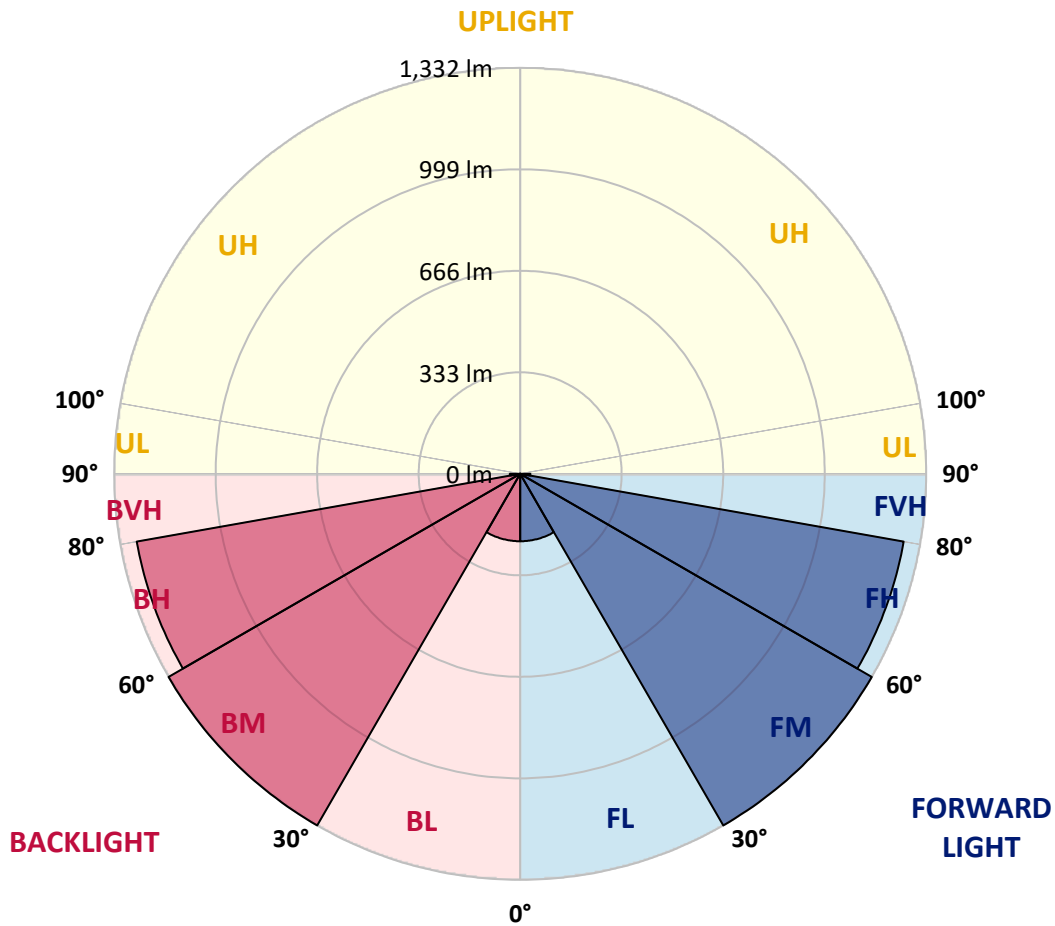
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.2	3.9			
FM (30°-60°)	1332.1	23.3			
FH (60°-80°)	1277.6	22.3			G1/1800
FVH (80°-90°)	33.6	0.6			G1/100
BL (0°-30°)	221.2	3.9	B1/500		
BM (30°-60°)	1332.1	23.3	B2/2500		
BH (60°-80°)	1277.6	22.3	B3/2500		G1/1800
BVH (80°-90°)	33.6	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°	399.4	399.4	399.4	399.4	399.4	399.4	399.4	399.4	399.4	399.4	399.4
2.5°	404.7	404.7	403.6	403.6	401.5	400.4	399.4	399.4	398.3	398.3	397.2
5°	406.8	406.8	406.8	405.8	404.7	403.6	401.5	399.4	398.3	397.2	396.2
7.5°	407.9	407.9	406.8	406.8	405.8	404.7	401.5	398.3	397.2	396.2	396.2
10°	416.4	415.3	414.3	412.1	412.1	412.1	407.9	404.7	403.6	403.6	403.6
12.5°	436.6	435.6	433.4	430.2	430.2	431.3	424.9	420.7	420.7	419.6	419.6
15°	466.5	465.4	463.3	457.9	456.9	459.0	449.4	445.2	445.2	445.2	444.1
17.5°	499.5	497.3	494.1	489.9	489.9	489.9	480.3	475.0	471.8	471.8	470.7
20°	527.2	526.1	526.1	525.0	528.2	528.2	515.4	506.9	499.5	495.2	494.1
22.5°	551.7	550.6	552.7	557.0	563.4	565.5	550.6	537.8	526.1	517.6	515.4
25°	584.7	583.6	582.5	588.9	599.6	602.8	586.8	570.8	559.1	554.9	552.7
27.5°	619.8	620.9	621.9	628.3	636.9	642.2	626.2	611.3	601.7	595.3	593.2
30°	659.2	661.3	664.5	674.1	680.5	682.6	668.8	658.2	649.6	644.3	641.1
32.5°	709.3	713.5	717.8	726.3	729.5	727.4	721.0	713.5	707.1	699.7	698.6
35°	783.8	788.1	787.0	790.2	791.3	789.1	786.0	781.7	778.5	768.9	767.8
37.5°	877.5	881.8	875.4	872.2	864.8	865.8	864.8	868.0	869.0	859.4	858.4
40°	972.3	976.6	968.1	959.5	952.1	948.9	954.2	964.9	964.9	958.5	958.5
42.5°	1073.5	1076.7	1062.8	1052.2	1042.6	1040.5	1043.7	1056.5	1059.6	1058.6	1058.6
45°	1174.7	1172.5	1154.4	1143.8	1135.3	1129.9	1131.0	1140.6	1147.0	1150.2	1150.2
47.5°	1252.4	1249.2	1234.3	1225.8	1220.5	1213.0	1213.0	1218.3	1221.5	1222.6	1222.6
50°	1314.2	1311.0	1296.1	1295.0	1295.0	1291.8	1288.6	1287.6	1285.4	1286.5	1286.5
52.5°	1367.4	1363.2	1352.5	1354.6	1364.2	1366.4	1362.1	1353.6	1345.1	1341.9	1342.9
55°	1424.9	1418.5	1410.0	1416.4	1435.6	1444.1	1437.7	1420.7	1405.8	1396.2	1396.2
57.5°	1470.7	1463.3	1463.3	1481.4	1516.5	1533.6	1519.7	1487.8	1462.2	1451.6	1452.6
60°	1438.8	1432.4	1457.9	1537.8	1603.9	1632.6	1609.2	1552.7	1511.2	1498.4	1500.5
62.5°	1375.9	1371.7	1403.6	1527.2	1682.7	1742.3	1707.2	1626.2	1564.4	1549.5	1549.5
65°	1283.3	1282.2	1327.0	1479.2	1700.8	1847.7	1817.9	1706.1	1626.2	1606.0	1610.2
67.5°	1187.4	1187.4	1227.9	1397.2	1679.5	1892.5	1915.9	1778.5	1656.0	1606.0	1607.0
70°	1018.1	1036.2	1143.8	1321.6	1601.7	1860.5	1956.4	1727.4	1526.1	1437.7	1434.5
72.5°	670.9	694.4	908.4	1189.6	1525.0	1744.4	1765.7	1517.6	1267.3	1164.0	1158.7
75°	404.7	424.9	588.9	928.7	1340.8	1404.7	1311.0	1189.6	946.8	865.8	865.8
77.5°	119.3	133.1	271.6	588.9	927.6	923.3	808.3	700.8	560.2	476.0	482.4
80°	70.3	72.4	88.4	268.4	384.5	404.7	312.0	194.9	194.9	144.8	140.6
82.5°	54.3	54.3	56.4	67.1	92.7	103.3	78.8	67.1	76.7	65.0	61.8
85°	38.3	38.3	38.3	39.4	40.5	41.5	43.7	44.7	49.0	40.5	38.3
87.5°	11.7	12.8	13.8	16.0	19.2	20.2	21.3	19.2	19.2	18.1	17.0
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)