

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: P798991

Luminaire Tested: **ARCH1-50-730-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798991
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: ARCH1-50-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

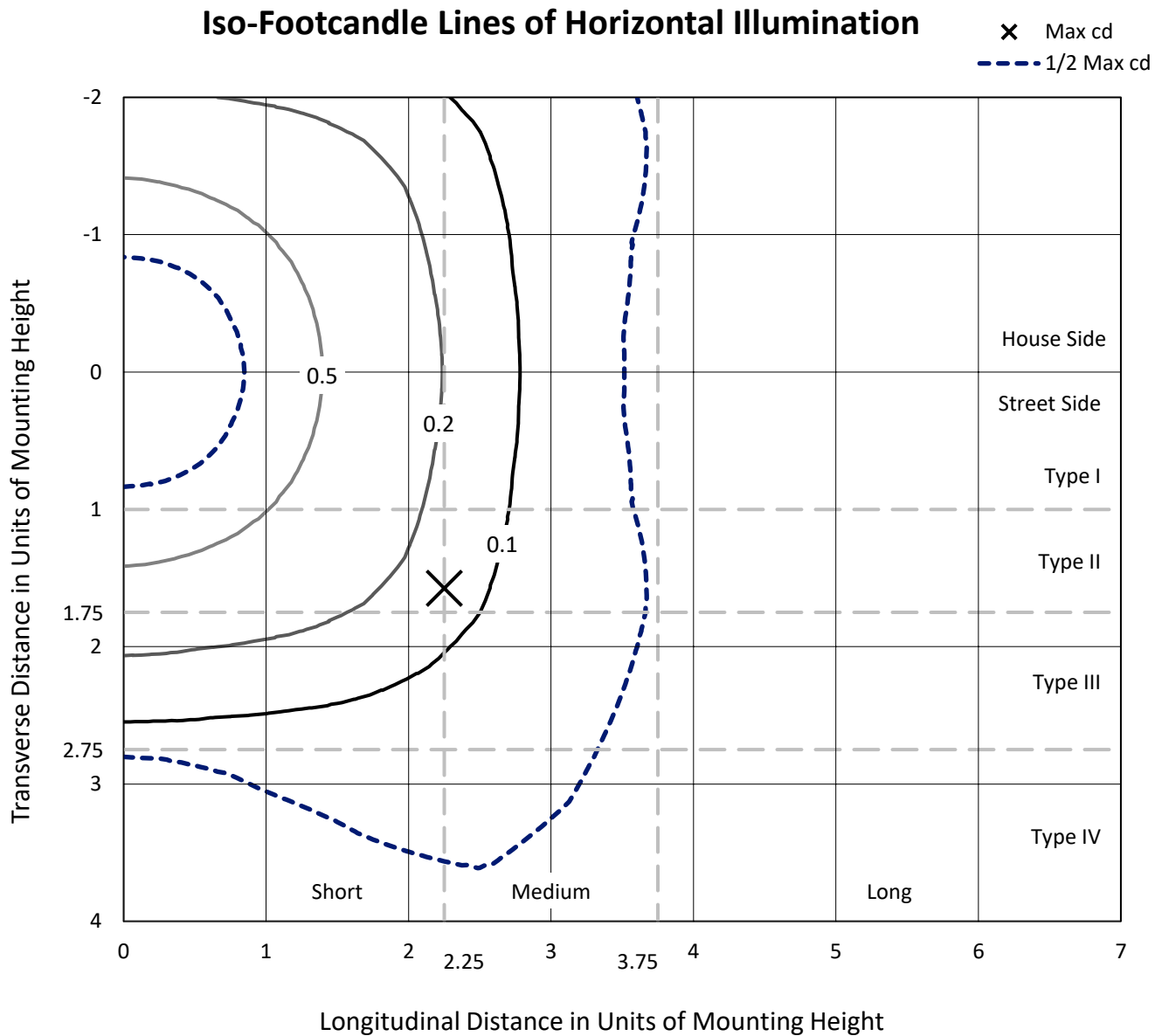
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6548 lumens
Efficiency: N/A
Efficacy: 123.5 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

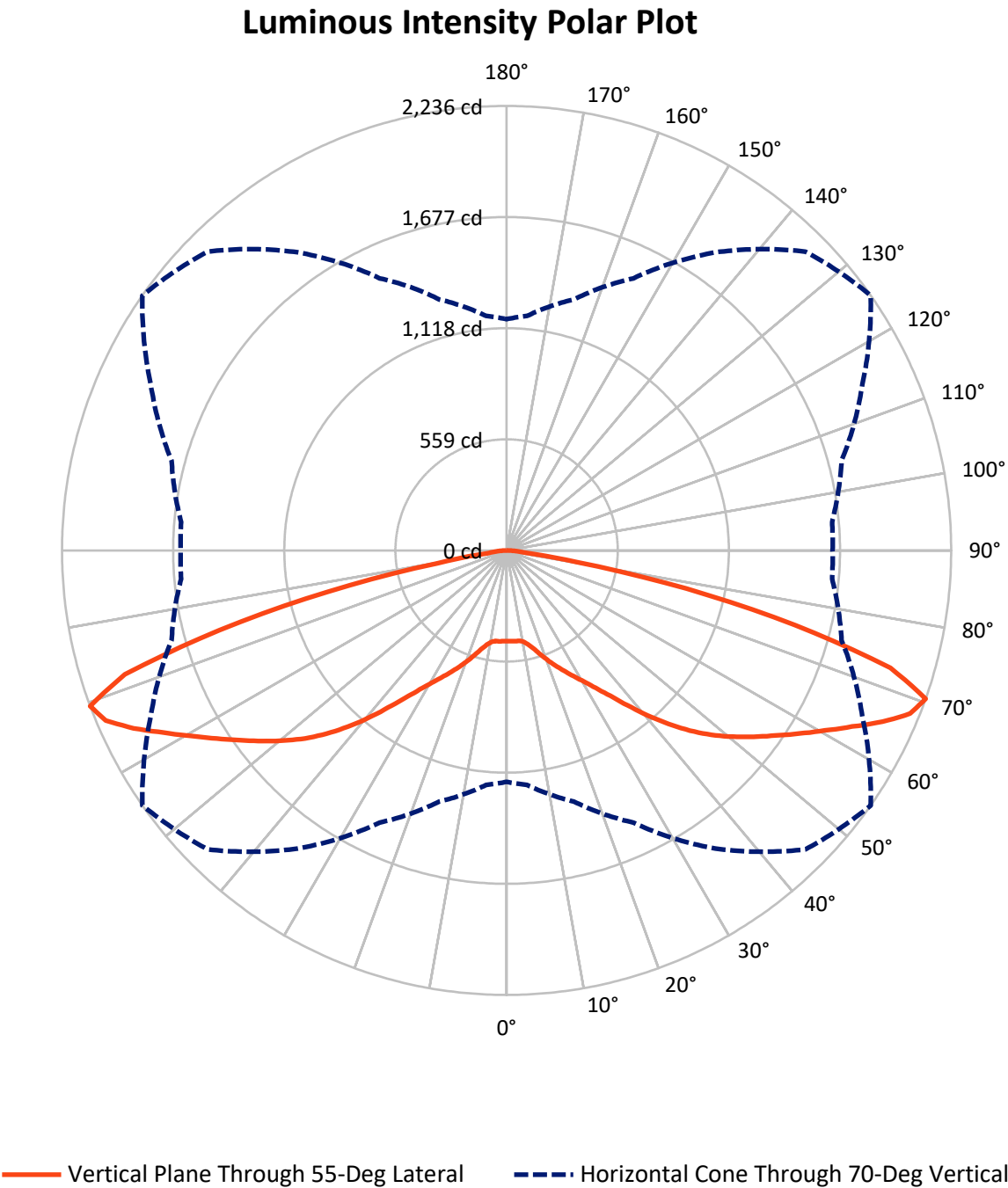


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Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
Type V - Medium - N/A

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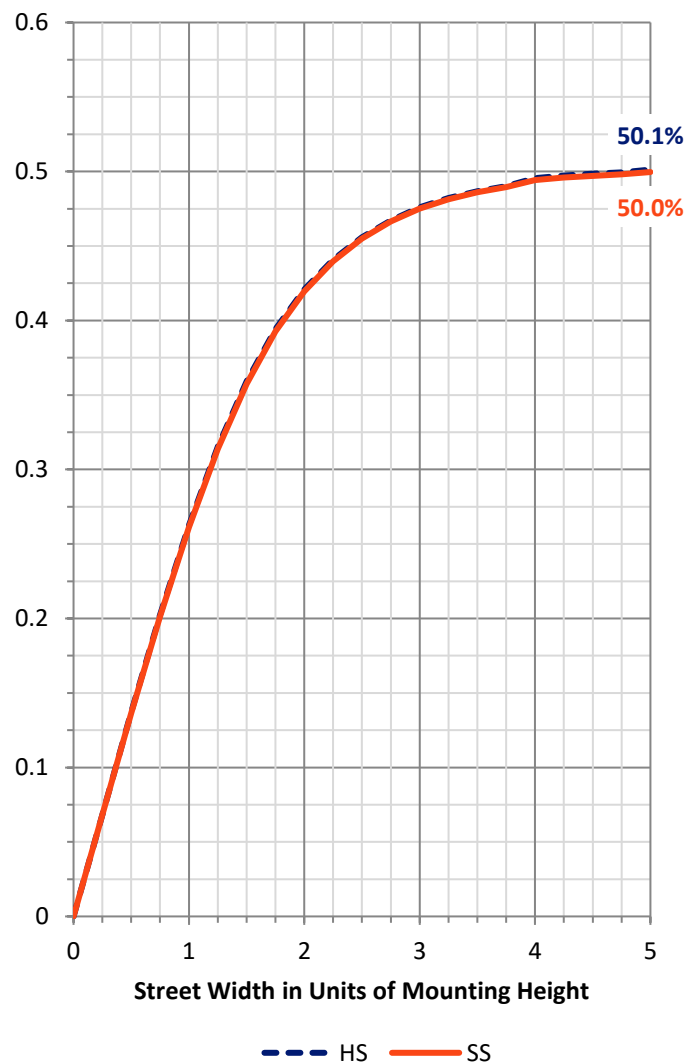
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3274.0	0.0	3274.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3274.0	0.0	3274.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6548.0	0.0	6548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	0.7
10°-20°	150.0	2.3
20°-30°	311.6	4.8
30°-40°	575.6	8.8
40°-50°	1011.1	15.4
50°-60°	1458.3	22.3
60°-70°	1784.8	27.3
70°-80°	1135.7	17.3
80°-90°	76.8	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°	6548.0	100.0
0°-180°	6548.0	100.0

Coefficient of Utilization



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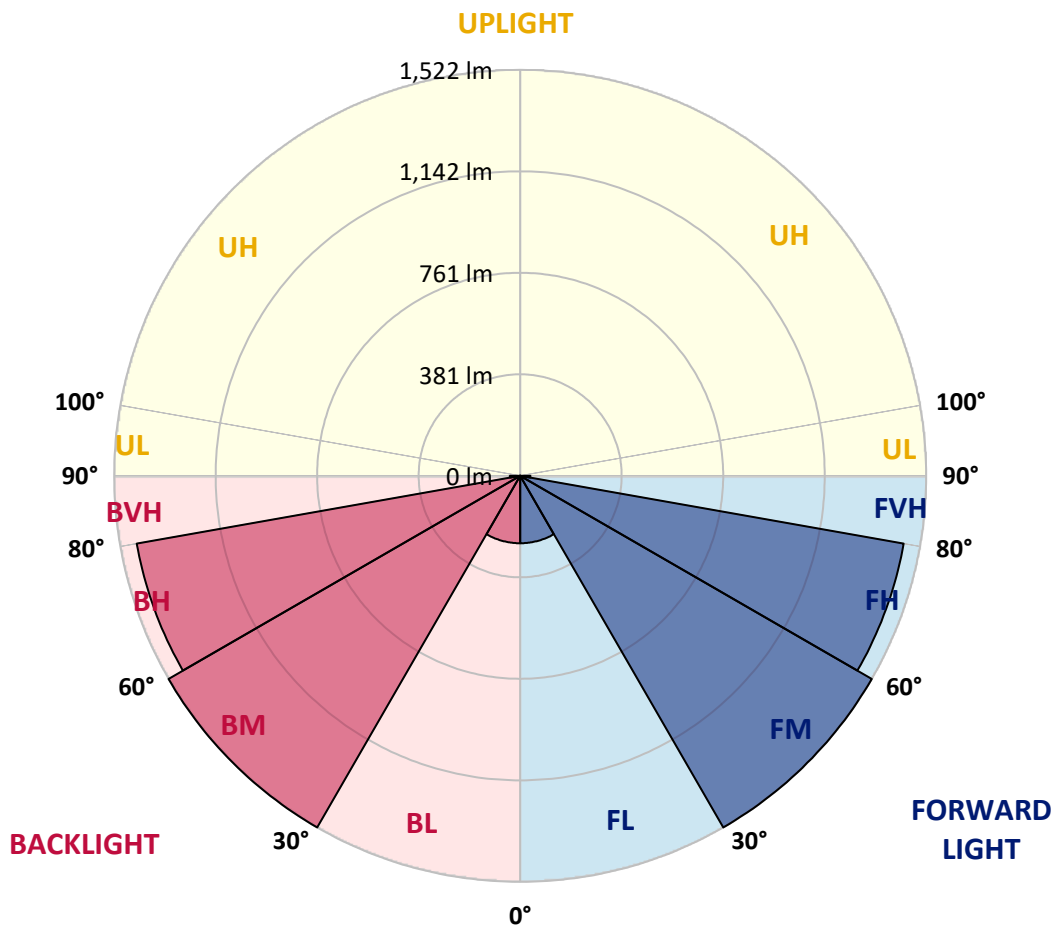
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.8	3.9			
FM	(30°-60°)	1522.5	23.3			
FH	(60°-80°)	1460.3	22.3			G1/1800
FVH	(80°-90°)	38.4	0.6			G1/100
BL	(0°-30°)	252.8	3.9	B1/500		
BM	(30°-60°)	1522.5	23.3	B2/2500		
BH	(60°-80°)	1460.3	22.3	B3/2500		G1/1800
BVH	(80°-90°)	38.4	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°	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5	456.5
2.5°	462.5	462.5	461.3	461.3	458.9	457.7	456.5	456.5	455.2	455.2	454.0
5°	465.0	465.0	465.0	463.8	462.5	461.3	458.9	456.5	455.2	454.0	452.8
7.5°	466.2	466.2	465.0	465.0	463.8	462.5	458.9	455.2	454.0	452.8	452.8
10°	475.9	474.7	473.5	471.1	471.1	471.1	466.2	462.5	461.3	461.3	461.3
12.5°	499.1	497.8	495.4	491.8	491.8	493.0	485.7	480.8	480.8	479.6	479.6
15°	533.1	531.9	529.5	523.4	522.2	524.6	513.7	508.8	508.8	508.8	507.6
17.5°	570.9	568.4	564.8	559.9	559.9	559.9	549.0	542.9	539.2	539.2	538.0
20°	602.5	601.3	601.3	600.1	603.7	603.7	589.1	579.4	570.9	566.0	564.8
22.5°	630.5	629.3	631.7	636.6	643.9	646.3	629.3	614.7	601.3	591.6	589.1
25°	668.3	667.0	665.8	673.1	685.3	688.9	670.7	652.4	639.0	634.2	631.7
27.5°	708.4	709.6	710.9	718.2	727.9	734.0	715.7	698.7	687.7	680.4	678.0
30°	753.5	755.9	759.5	770.5	777.8	780.2	764.4	752.2	742.5	736.4	732.8
32.5°	810.7	815.5	820.4	830.1	833.8	831.4	824.1	815.5	808.2	799.7	798.5
35°	895.9	900.7	899.5	903.2	904.4	902.0	898.3	893.4	889.8	878.8	877.6
37.5°	1003.0	1007.9	1000.6	996.9	988.4	989.6	988.4	992.0	993.3	982.3	981.1
40°	1111.3	1116.2	1106.5	1096.7	1088.2	1084.5	1090.6	1102.8	1102.8	1095.5	1095.5
42.5°	1227.0	1230.6	1214.8	1202.6	1191.7	1189.2	1192.9	1207.5	1211.1	1209.9	1209.9
45°	1342.6	1340.2	1319.5	1307.3	1297.6	1291.5	1292.7	1303.6	1310.9	1314.6	1314.6
47.5°	1431.5	1427.8	1410.8	1401.0	1394.9	1386.4	1386.4	1392.5	1396.2	1397.4	1397.4
50°	1502.0	1498.4	1481.4	1480.1	1480.1	1476.5	1472.8	1471.6	1469.2	1470.4	1470.4
52.5°	1562.9	1558.0	1545.9	1548.3	1559.3	1561.7	1556.8	1547.1	1537.3	1533.7	1534.9
55°	1628.6	1621.3	1611.6	1618.9	1640.8	1650.5	1643.2	1623.8	1606.7	1595.8	1595.8
57.5°	1681.0	1672.5	1672.5	1693.2	1733.3	1752.8	1737.0	1700.5	1671.2	1659.1	1660.3
60°	1644.5	1637.2	1666.4	1757.7	1833.1	1866.0	1839.2	1774.7	1727.2	1712.6	1715.1
62.5°	1572.6	1567.8	1604.3	1745.5	1923.2	1991.4	1951.2	1858.7	1788.1	1771.1	1771.1
65°	1466.7	1465.5	1516.7	1690.7	1943.9	2111.9	2077.8	1950.0	1858.7	1835.6	1840.4
67.5°	1357.2	1357.2	1403.5	1597.0	1919.6	2163.0	2189.8	2032.8	1892.8	1835.6	1836.8
70°	1163.7	1184.4	1307.3	1510.6	1830.7	2126.5	2236.0	1974.3	1744.3	1643.2	1639.6
72.5°	766.8	793.6	1038.3	1359.6	1743.1	1993.8	2018.2	1734.5	1448.5	1330.4	1324.3
75°	462.5	485.7	673.1	1061.4	1532.5	1605.5	1498.4	1359.6	1082.1	989.6	989.6
77.5°	136.3	152.2	310.4	673.1	1060.2	1055.3	923.9	800.9	640.3	544.1	551.4
80°	80.3	82.8	101.0	306.7	439.4	462.5	356.6	222.8	222.8	165.5	160.7
82.5°	62.1	62.1	64.5	76.7	105.9	118.1	90.1	76.7	87.6	74.3	70.6
85°	43.8	43.8	43.8	45.0	46.3	47.5	49.9	51.1	56.0	46.3	43.8
87.5°	13.4	14.6	15.8	18.3	21.9	23.1	24.3	21.9	21.9	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)