

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: P799631

Luminaire Tested: **ARCH2-40-730-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799631
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: ARCH2-40-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6453 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

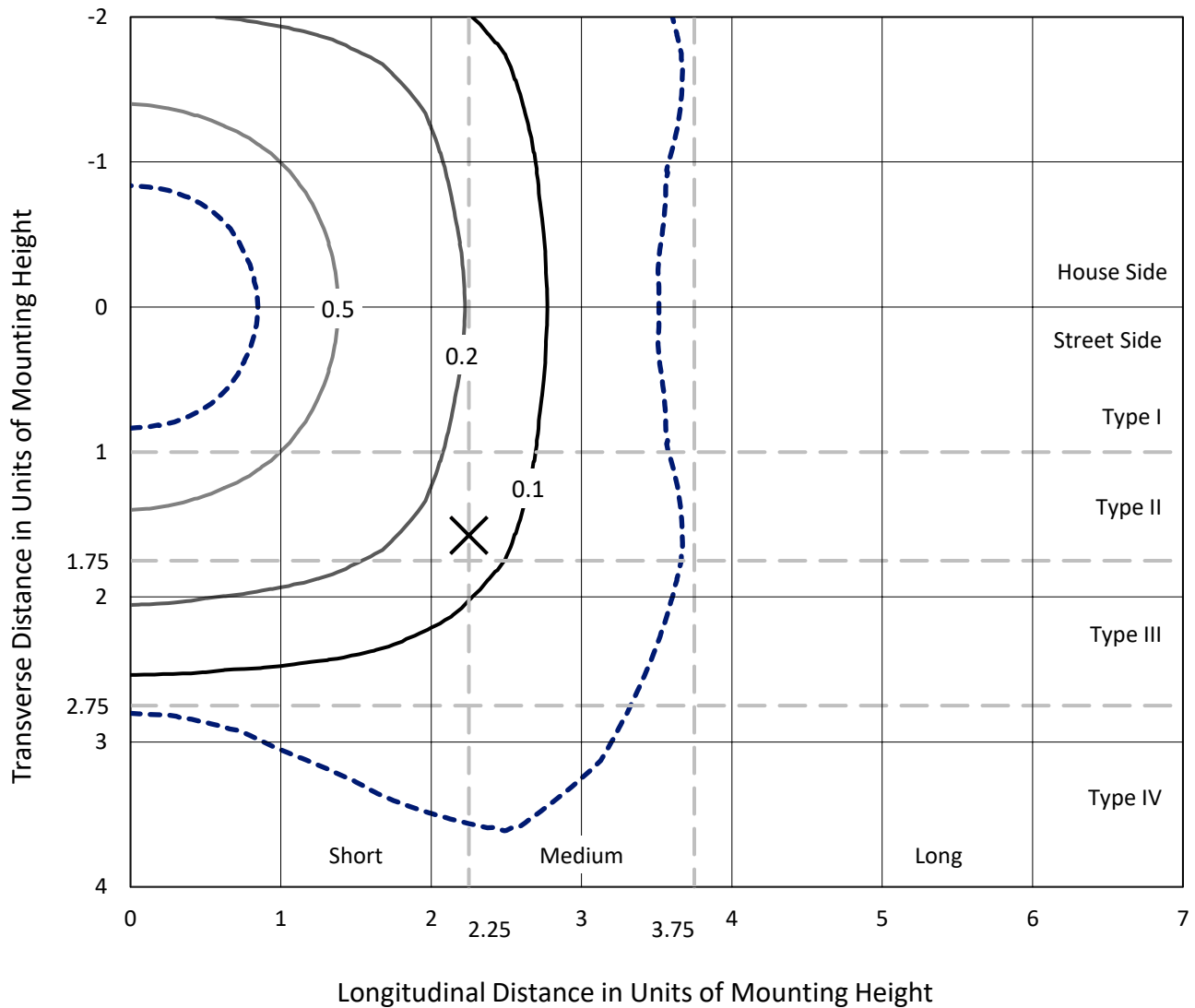
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

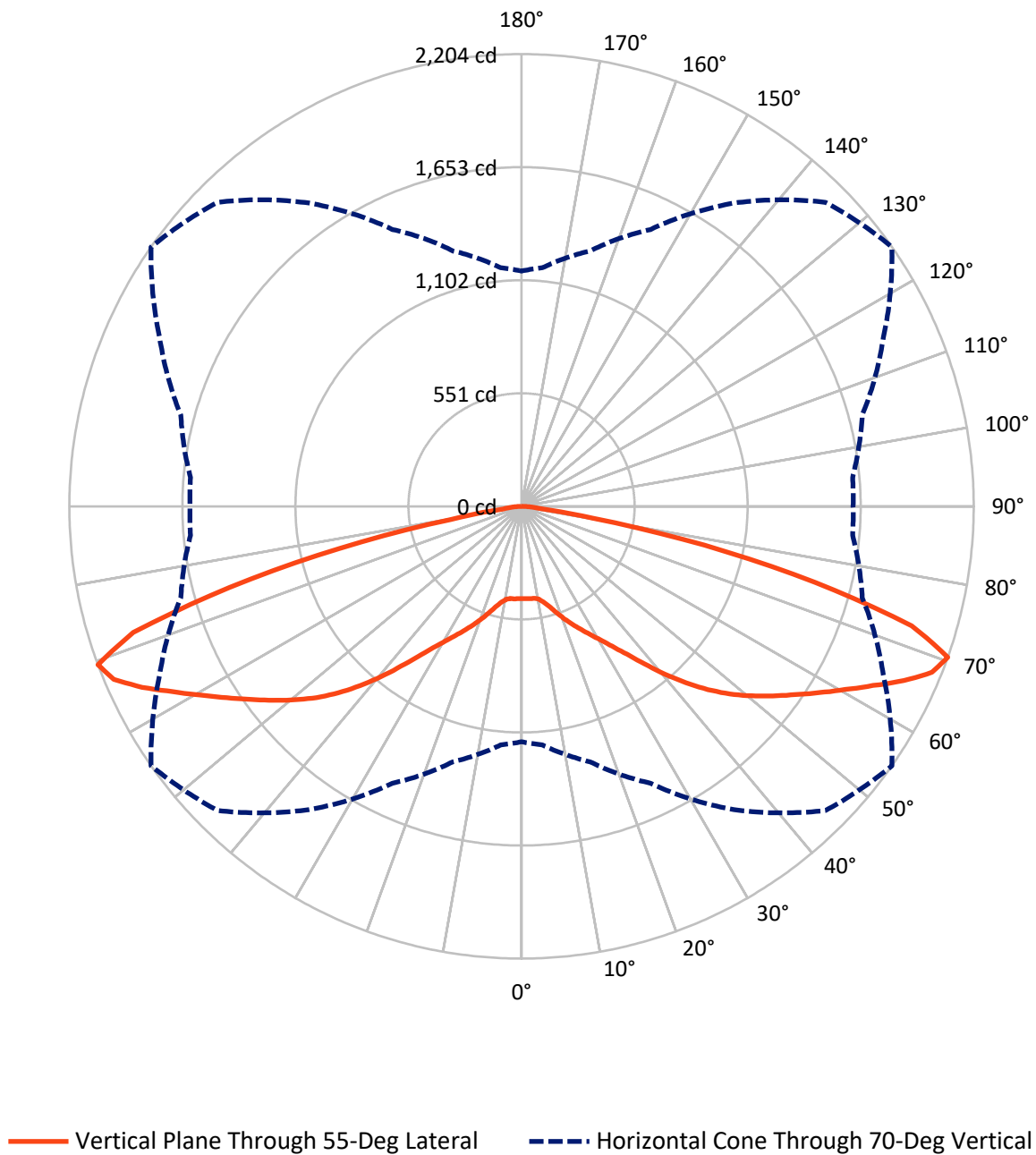


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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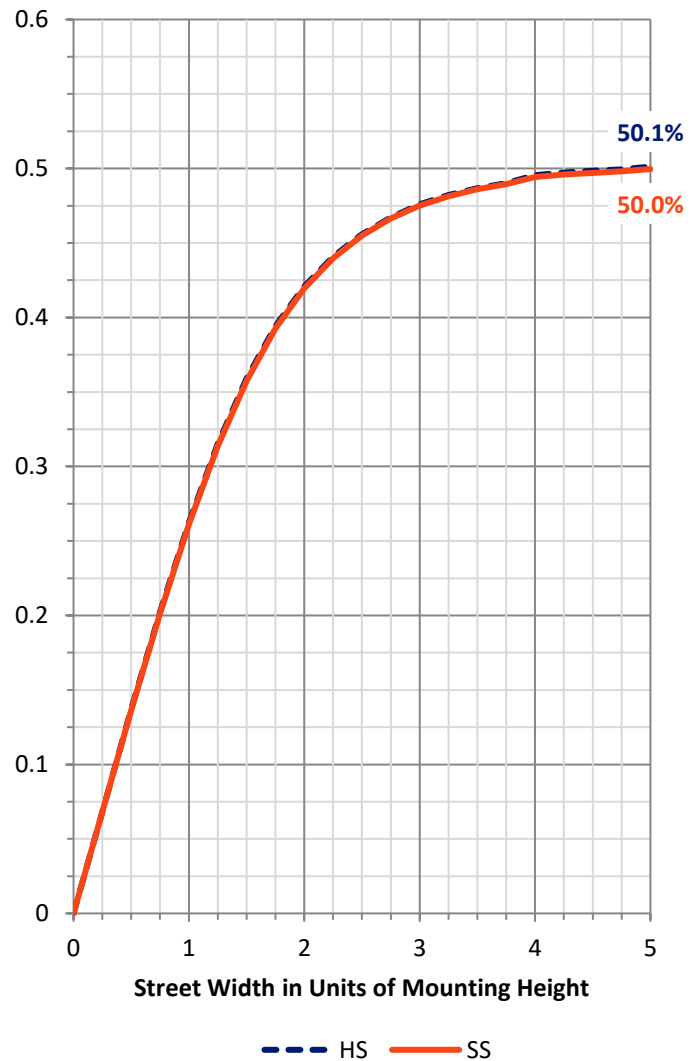
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3226.5	0.0	3226.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3226.5	0.0	3226.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6453.0	0.0	6453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	0.7
10°-20°	147.8	2.3
20°-30°	307.1	4.8
30°-40°	567.2	8.8
40°-50°	996.5	15.4
50°-60°	1437.1	22.3
60°-70°	1758.9	27.3
70°-80°	1119.2	17.3
80°-90°	75.7	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°	6453.0	100.0
0°-180°	6453.0	100.0

Coefficient of Utilization



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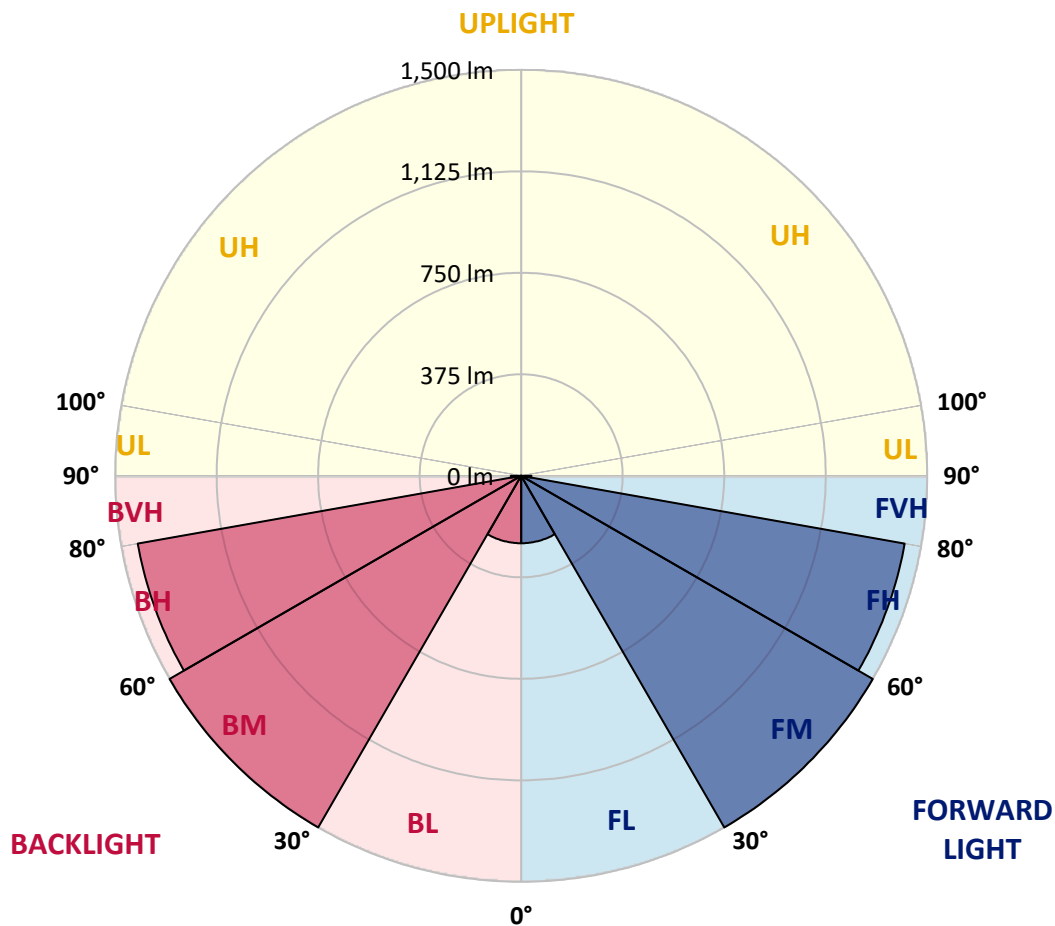
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.2	3.9			
FM	(30°-60°)	1500.4	23.3			
FH	(60°-80°)	1439.1	22.3			G1/1800
FVH	(80°-90°)	37.9	0.6			G1/100
BL	(0°-30°)	249.2	3.9	B1/500		
BM	(30°-60°)	1500.4	23.3	B2/2500		
BH	(60°-80°)	1439.1	22.3	B3/2500		G1/1800
BVH	(80°-90°)	37.9	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°	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8	449.8
2.5°	455.8	455.8	454.6	454.6	452.2	451.0	449.8	449.8	448.6	448.6	447.4
5°	458.2	458.2	458.2	457.0	455.8	454.6	452.2	449.8	448.6	447.4	446.2
7.5°	459.4	459.4	458.2	458.2	457.0	455.8	452.2	448.6	447.4	446.2	446.2
10°	469.0	467.8	466.6	464.2	464.2	464.2	459.4	455.8	454.6	454.6	454.6
12.5°	491.8	490.6	488.2	484.6	484.6	485.8	478.6	473.8	473.8	472.6	472.6
15°	525.4	524.2	521.8	515.8	514.6	517.0	506.2	501.4	501.4	501.4	500.2
17.5°	562.6	560.2	556.6	551.8	551.8	551.8	541.0	535.0	531.4	531.4	530.2
20°	593.8	592.6	592.6	591.4	595.0	595.0	580.6	571.0	562.6	557.8	556.6
22.5°	621.4	620.2	622.6	627.4	634.6	637.0	620.2	605.8	592.6	583.0	580.6
25°	658.6	657.4	656.2	663.4	675.4	679.0	661.0	643.0	629.8	625.0	622.6
27.5°	698.1	699.3	700.5	707.7	717.3	723.3	705.3	688.5	677.8	670.6	668.2
30°	742.5	744.9	748.5	759.3	766.5	768.9	753.3	741.3	731.7	725.7	722.1
32.5°	798.9	803.7	808.5	818.1	821.7	819.3	812.1	803.7	796.5	788.1	786.9
35°	882.9	887.7	886.5	890.1	891.3	888.9	885.3	880.5	876.9	866.1	864.9
37.5°	988.4	993.2	986.0	982.4	974.0	975.2	974.0	977.6	978.8	968.0	966.8
40°	1095.2	1100.0	1090.4	1080.8	1072.4	1068.8	1074.8	1086.8	1086.8	1079.6	1079.6
42.5°	1209.2	1212.8	1197.2	1185.2	1174.4	1172.0	1175.6	1190.0	1193.6	1192.4	1192.4
45°	1323.1	1320.7	1300.3	1288.3	1278.7	1272.7	1273.9	1284.7	1291.9	1295.5	1295.5
47.5°	1410.7	1407.1	1390.3	1380.7	1374.7	1366.3	1366.3	1372.3	1375.9	1377.1	1377.1
50°	1480.3	1476.7	1459.9	1458.7	1458.7	1455.1	1451.5	1450.3	1447.9	1449.1	1449.1
52.5°	1540.2	1535.4	1523.4	1525.8	1536.6	1539.0	1534.2	1524.6	1515.0	1511.4	1512.6
55°	1605.0	1597.8	1588.2	1595.4	1617.0	1626.6	1619.4	1600.2	1583.4	1572.6	1572.6
57.5°	1656.6	1648.2	1648.2	1668.6	1708.2	1727.4	1711.8	1675.8	1647.0	1635.0	1636.2
60°	1620.6	1613.4	1642.2	1732.2	1806.5	1838.9	1812.5	1749.0	1702.2	1687.8	1690.2
62.5°	1549.8	1545.0	1581.0	1720.2	1895.3	1962.5	1922.9	1831.7	1762.2	1745.4	1745.4
65°	1445.5	1444.3	1494.7	1666.2	1915.7	2081.2	2047.6	1921.7	1831.7	1808.9	1813.7
67.5°	1337.5	1337.5	1383.1	1573.8	1891.7	2131.6	2158.0	2003.3	1865.3	1808.9	1810.1
70°	1146.8	1167.2	1288.3	1488.7	1804.1	2095.6	2203.6	1945.7	1719.0	1619.4	1615.8
72.5°	755.7	782.1	1023.2	1339.9	1717.8	1964.9	1988.9	1709.4	1427.5	1311.1	1305.1
75°	455.8	478.6	663.4	1046.0	1510.2	1582.2	1476.7	1339.9	1066.4	975.2	975.2
77.5°	134.4	149.9	305.9	663.4	1044.8	1040.0	910.5	789.3	631.0	536.2	543.4
80°	79.2	81.6	99.6	302.3	433.0	455.8	351.5	219.5	219.5	163.1	158.3
82.5°	61.2	61.2	63.6	75.6	104.4	116.4	88.8	75.6	86.4	73.2	69.6
85°	43.2	43.2	43.2	44.4	45.6	46.8	49.2	50.4	55.2	45.6	43.2
87.5°	13.2	14.4	15.6	18.0	21.6	22.8	24.0	21.6	21.6	20.4	19.2
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)