

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: PORTFOLIO

Report Number: P857974

Luminaire Tested: **LX4C40D010 EX4C409050 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C40D010 EX4C409050 4LBLWWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

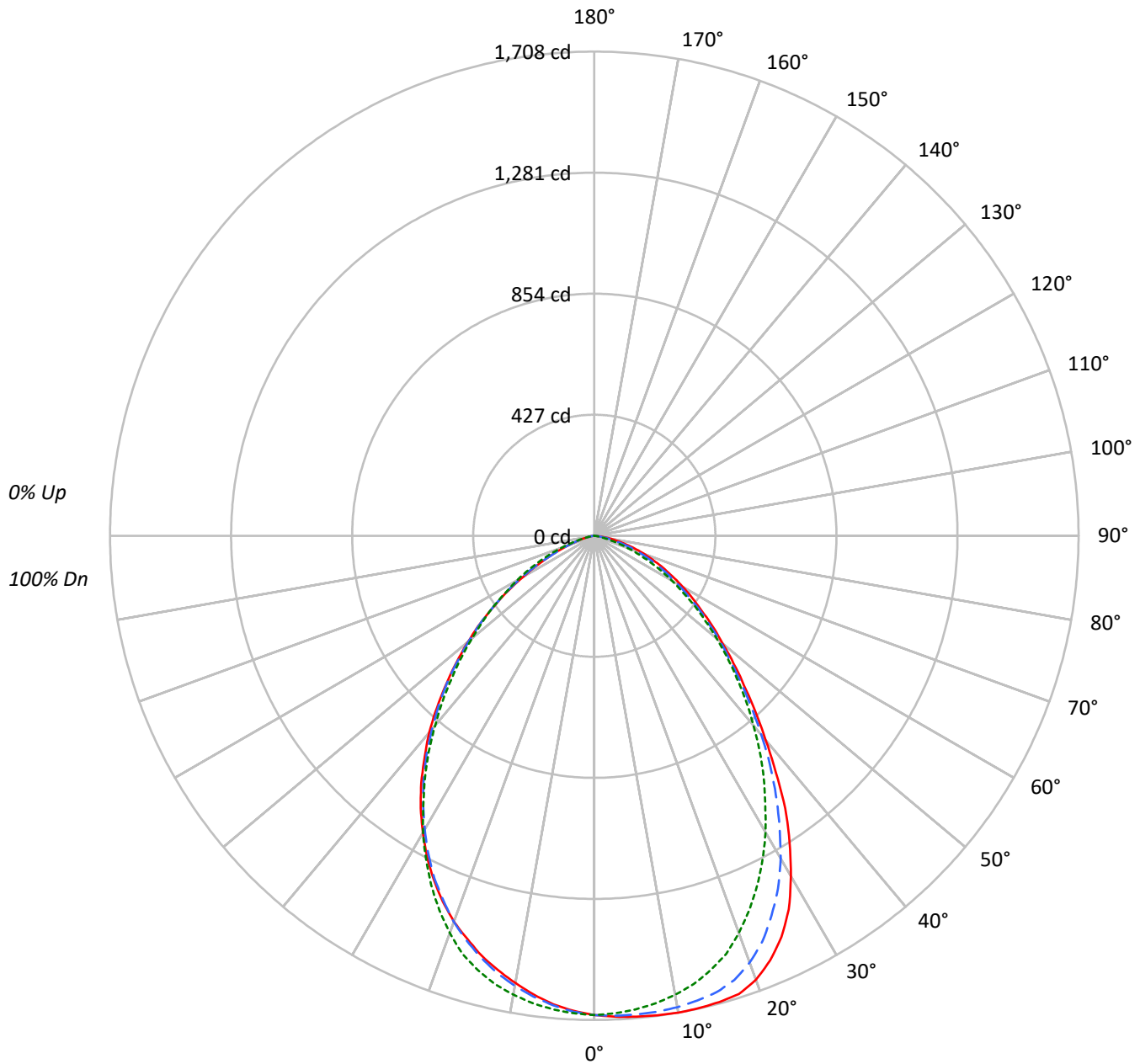
Lumens per Lamp: N/A
Luminaire Lumens: 3186.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V):
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	86		100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	74		93	85	78	73		82	76	72		79	75	71		77	73	70
4	88	78	70	64		86	77	69	64		74	68	63		72	67	62		70	65	62
5	82	71	63	57		80	69	62	57		67	61	56		66	60	55		64	59	55
6	76	64	56	51		74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	46		69	58	51	45		57	50	45		55	49	45		54	49	44
8	67	54	47	41		65	54	46	41		52	46	41		51	45	41		50	45	40
9	62	50	43	38		61	50	42	37		48	42	37		47	41	37		47	41	37
10	59	47	39	34		58	46	39	34		45	39	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	207696	207696	207696
5°	210006	206800	204555
10°	213083	205062	199860
15°	216587	201783	195093
20°	217966	194930	189309
25°	211708	184394	181574
30°	196744	171380	171479
35°	176117	156230	159545
40°	150783	140038	145154
45°	129802	123478	128099
50°	112841	107489	110719
55°	99298	92465	91630
60°	88356	77177	71083
65°	77500	61802	51424
70°	66560	43679	34806
75°	54017	25300	20363
80°	38629	11037	10117
85°	14660	4652	4652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	5.0
10°-20°	451.0	14.2
20°-30°	644.0	20.2
30°-40°	673.7	21.1
40°-50°	564.5	17.7
50°-60°	395.1	12.4
60°-70°	215.1	6.8
70°-80°	74.7	2.3
80°-90°	8.6	0.3
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°-30°	1254.3	39.4
0°-40°	1928.1	60.5
0°-60°	2887.6	90.6
0°-90°	3186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1691	1691	1691	1691	1691	
5°	1703	1695	1677	1663	1659	163
15°	1703	1667	1586	1541	1534	481
25°	1562	1479	1360	1334	1340	713
35°	1174	1116	1042	1050	1064	728
45°	747	730	711	734	737	581
55°	464	448	432	432	428	419
65°	267	243	213	179	177	265
75°	114	92	53	43	43	123
85°	10	6	3	3	3	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6
2.5°	1698.4	1696.4	1697.1	1697.1	1697.1	1696.4	1697.1	1696.4	1696.4	1695.8	1694.5
5°	1702.9	1701.6	1701.6	1701.6	1701.0	1700.3	1700.3	1699.7	1698.4	1697.7	1695.1
7.5°	1706.2	1704.9	1704.9	1704.2	1703.6	1702.9	1702.3	1700.3	1698.4	1697.1	1693.8
10°	1708.1	1706.2	1706.2	1704.9	1703.6	1702.9	1701.6	1699.0	1696.4	1693.2	1688.6
12.5°	1706.8	1704.9	1704.2	1702.9	1700.3	1699.0	1697.7	1694.5	1689.9	1685.4	1679.5
15°	1702.9	1701.6	1700.3	1698.4	1695.1	1693.2	1691.9	1686.7	1680.8	1674.3	1667.2
17.5°	1695.1	1693.2	1690.6	1688.0	1683.4	1681.5	1678.2	1671.7	1663.3	1654.2	1643.1
20°	1667.2	1665.9	1663.3	1658.7	1651.6	1649.0	1644.4	1636.0	1624.9	1613.8	1602.1
22.5°	1621.0	1619.0	1615.1	1611.2	1604.7	1600.2	1596.3	1584.6	1572.2	1560.5	1549.5
25°	1561.8	1559.9	1554.7	1549.5	1543.0	1535.2	1531.3	1522.2	1509.8	1494.9	1478.6
27.5°	1485.8	1479.2	1477.3	1471.4	1461.7	1459.1	1453.2	1441.5	1429.8	1416.8	1403.2
30°	1386.9	1386.9	1383.0	1380.4	1371.3	1368.7	1362.2	1349.9	1343.4	1325.1	1314.7
32.5°	1282.2	1280.9	1277.7	1275.7	1270.5	1266.0	1259.5	1253.0	1238.7	1229.6	1215.3
35°	1174.3	1166.5	1167.8	1163.9	1160.6	1155.4	1154.8	1147.6	1134.6	1129.4	1116.4
37.5°	1051.4	1048.2	1052.7	1046.9	1043.6	1044.3	1039.0	1034.5	1029.3	1020.2	1017.6
40°	940.2	942.8	942.2	937.0	939.6	936.3	931.1	926.6	924.0	918.1	916.2
42.5°	840.7	836.8	835.5	835.5	836.2	836.2	833.6	830.3	830.3	824.5	818.6
45°	747.1	747.1	745.8	749.7	743.9	743.9	741.9	741.2	738.6	737.3	730.2
47.5°	666.5	665.8	665.2	664.5	663.9	663.9	660.0	656.7	656.1	652.2	648.3
50°	590.4	594.3	593.0	589.7	588.4	589.1	586.5	584.5	583.9	577.4	578.0
52.5°	526.7	526.0	527.3	525.4	522.1	522.8	520.2	517.6	515.0	511.7	509.1
55°	463.6	466.9	465.6	463.6	463.0	461.7	459.7	456.5	455.8	448.7	448.0
57.5°	410.9	410.3	409.0	405.7	405.1	403.1	403.1	400.5	396.6	392.7	389.5
60°	359.6	359.6	357.6	357.0	354.4	353.7	353.1	350.5	345.9	342.7	337.5
62.5°	310.2	311.5	310.2	308.2	306.3	303.7	302.4	300.4	296.5	293.2	288.7
65°	266.6	265.9	265.3	262.7	262.0	259.4	258.8	254.9	251.0	248.4	243.2
67.5°	225.0	223.0	223.0	221.7	220.4	218.5	217.2	213.3	208.7	206.1	200.9
70°	185.3	184.0	184.0	184.0	180.8	178.8	178.2	176.2	169.7	167.1	161.9
72.5°	148.9	148.2	147.6	145.6	143.7	143.7	141.1	137.2	133.9	130.7	126.8
75°	113.8	115.1	113.8	111.2	110.5	109.2	107.3	104.0	100.8	96.9	92.3
77.5°	83.2	81.9	80.6	80.6	79.3	76.7	76.1	73.5	69.6	67.0	62.4
80°	54.6	54.0	52.7	51.4	50.7	50.1	49.4	46.8	42.9	41.0	37.1
82.5°	29.9	29.3	29.3	28.6	26.7	26.7	26.0	23.4	21.5	20.2	18.2
85°	10.4	10.4	10.4	9.8	9.8	9.8	9.1	8.5	7.8	7.2	5.9
87.5°	1.3	0.7	1.3	0.7	1.3	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6
2.5°	1693.2	1691.9	1691.2	1690.6	1689.9	1689.3	1688.6	1687.3	1686.7	1686.0	1684.7
5°	1693.2	1690.6	1689.3	1687.3	1686.0	1684.7	1682.8	1680.8	1678.9	1676.9	1675.0
7.5°	1690.6	1686.7	1684.1	1680.2	1678.9	1676.9	1673.0	1670.4	1667.2	1663.3	1658.7
10°	1684.1	1679.5	1674.3	1669.1	1667.2	1663.9	1658.7	1654.2	1649.0	1643.8	1639.2
12.5°	1673.7	1666.5	1660.0	1652.9	1649.0	1645.7	1638.6	1632.0	1625.5	1619.7	1611.9
15°	1658.1	1649.6	1641.2	1631.4	1626.8	1622.9	1612.5	1604.7	1594.3	1586.5	1578.7
17.5°	1632.7	1619.7	1609.3	1596.9	1590.4	1585.9	1576.8	1564.4	1554.7	1546.2	1537.1
20°	1589.1	1576.8	1562.5	1548.8	1541.7	1535.8	1522.8	1509.8	1500.1	1491.0	1481.2
22.5°	1531.9	1516.3	1505.9	1489.0	1483.1	1476.0	1460.4	1448.7	1437.6	1428.5	1419.4
25°	1462.3	1448.7	1434.4	1418.8	1411.6	1403.2	1390.2	1377.8	1370.7	1360.3	1349.2
27.5°	1382.4	1371.3	1353.8	1340.1	1332.9	1326.4	1314.1	1303.0	1292.6	1285.5	1275.1
30°	1297.8	1284.8	1269.2	1254.9	1251.0	1243.2	1232.2	1223.7	1212.7	1208.1	1203.6
32.5°	1204.9	1189.9	1178.2	1169.1	1161.3	1154.8	1148.9	1135.3	1133.3	1121.6	1120.3
35°	1103.4	1096.9	1085.9	1078.1	1071.6	1067.0	1057.3	1050.8	1043.6	1041.7	1037.1
37.5°	1007.8	1000.0	989.6	982.5	977.9	977.3	970.1	966.2	961.0	958.4	953.2
40°	907.7	904.5	895.4	894.1	886.9	886.2	882.3	877.8	873.2	873.2	873.9
42.5°	815.4	811.5	807.6	803.0	799.1	799.1	797.2	795.9	794.6	792.6	795.9
45°	728.9	723.7	721.1	716.5	718.5	714.6	713.3	713.3	711.3	710.7	715.2
47.5°	648.3	642.4	639.8	638.5	638.5	639.2	633.3	635.3	634.6	635.9	637.9
50°	574.8	569.6	565.7	565.7	566.3	563.7	561.1	563.1	561.1	562.4	567.0
52.5°	506.5	501.3	499.4	499.4	495.5	494.8	496.1	493.5	494.2	494.8	497.4
55°	443.4	440.2	436.9	433.7	434.3	433.0	430.4	429.8	431.1	431.7	435.0
57.5°	386.9	382.3	377.8	376.5	375.2	375.2	371.9	371.3	372.6	369.3	369.3
60°	332.9	330.3	324.5	322.5	322.5	319.3	316.7	318.0	314.7	314.1	314.7
62.5°	282.8	280.9	277.0	273.1	271.8	270.5	267.2	265.9	264.6	262.0	258.1
65°	239.3	234.7	230.2	227.6	225.6	222.4	220.4	217.8	213.9	212.6	208.7
67.5°	195.7	191.2	186.6	184.7	182.7	180.8	177.5	174.3	169.7	164.5	160.0
70°	157.4	151.5	148.9	143.7	142.4	139.8	135.2	132.0	127.4	121.6	117.0
72.5°	120.3	116.4	112.5	107.9	104.7	102.7	98.8	93.6	88.4	85.2	80.6
75°	86.5	84.5	79.3	74.1	72.8	70.2	65.7	62.4	58.5	53.3	49.4
77.5°	58.5	54.6	51.4	46.8	45.5	42.9	40.3	37.1	34.5	31.2	28.6
80°	34.5	31.2	29.3	26.0	24.7	23.4	21.5	18.9	16.9	15.6	15.0
82.5°	16.9	14.3	13.7	11.7	11.1	10.4	9.1	8.5	7.2	7.2	7.2
85°	5.9	4.6	4.6	3.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6
2.5°	1684.1	1683.4	1682.8	1682.1	1682.1	1681.5	1681.5	1680.8	1680.8	1680.2	1680.2
5°	1672.4	1670.4	1669.1	1667.8	1667.8	1665.9	1664.6	1663.3	1662.6	1662.6	1661.3
7.5°	1656.1	1653.5	1650.9	1649.0	1648.3	1645.1	1642.5	1642.5	1639.9	1638.6	1637.3
10°	1634.7	1630.1	1626.2	1624.2	1621.6	1619.7	1616.4	1614.5	1612.5	1609.3	1608.6
12.5°	1605.4	1602.1	1596.3	1593.7	1592.4	1588.5	1583.3	1580.7	1580.0	1577.4	1575.5
15°	1572.2	1565.1	1559.9	1556.6	1556.6	1550.1	1547.5	1543.6	1541.0	1539.1	1538.4
17.5°	1529.3	1522.2	1517.0	1512.4	1511.1	1505.9	1502.0	1500.7	1497.5	1498.8	1495.5
20°	1474.0	1468.2	1464.3	1458.4	1458.4	1455.2	1453.9	1450.6	1449.3	1448.0	1449.3
22.5°	1414.9	1407.7	1401.2	1400.6	1400.6	1396.0	1395.4	1394.7	1392.1	1394.1	1393.4
25°	1345.3	1340.1	1336.2	1335.5	1335.5	1332.9	1330.3	1331.6	1333.6	1332.9	1334.9
27.5°	1273.1	1267.9	1266.6	1266.0	1264.7	1264.0	1265.3	1265.3	1267.3	1269.9	1272.5
30°	1195.1	1193.8	1191.9	1191.2	1189.9	1193.2	1194.5	1196.4	1195.8	1199.7	1202.3
32.5°	1117.1	1114.5	1113.8	1115.1	1117.1	1116.4	1120.3	1121.6	1122.9	1127.5	1129.4
35°	1038.4	1037.7	1036.4	1036.4	1037.1	1042.3	1042.3	1046.9	1049.5	1050.8	1056.0
37.5°	953.9	956.5	957.8	959.7	960.4	962.3	963.6	968.2	970.8	973.4	976.0
40°	876.5	875.2	881.0	877.1	878.4	884.3	886.9	886.2	890.1	894.1	896.7
42.5°	793.9	795.9	797.2	798.5	801.7	802.4	805.6	810.2	811.5	816.0	817.3
45°	713.9	714.6	717.2	719.8	721.7	726.9	728.2	730.2	734.1	734.1	736.0
47.5°	638.5	641.1	641.1	645.0	648.3	647.6	652.2	653.5	652.8	656.1	657.4
50°	566.3	570.2	569.6	572.2	573.5	574.1	578.0	579.3	576.7	580.0	580.6
52.5°	497.4	499.4	502.0	502.6	501.3	504.6	503.3	505.9	505.2	507.8	505.2
55°	434.3	433.7	433.7	435.0	433.7	435.0	436.3	433.7	431.7	434.3	433.7
57.5°	371.3	371.3	370.0	371.9	370.0	368.0	367.4	365.4	363.5	363.5	362.8
60°	312.1	310.8	308.2	307.6	307.6	304.3	303.0	300.4	300.4	297.8	295.2
62.5°	256.8	253.6	251.6	251.6	250.3	247.1	241.2	237.3	236.0	232.1	231.5
65°	204.8	201.6	199.6	195.7	192.5	191.2	185.3	180.8	178.8	174.9	175.6
67.5°	157.4	152.2	146.3	143.7	141.7	137.2	135.2	132.0	130.0	130.0	130.0
70°	113.1	108.6	102.7	100.8	99.5	95.6	93.6	93.0	94.9	94.3	94.9
72.5°	76.1	71.5	68.9	67.6	66.3	64.4	65.7	66.3	65.0	65.7	66.3
75°	46.2	44.9	42.9	42.3	42.3	42.9	42.3	42.3	42.9	42.9	43.6
77.5°	26.7	25.4	25.4	24.7	26.0	25.4	25.4	25.4	26.0	26.0	26.0
80°	14.3	14.3	14.3	14.3	15.0	14.3	15.0	15.0	15.0	15.0	15.0
82.5°	7.2	7.2	7.2	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.2
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	0.7	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P857974

CATALOG NUMBER: LX4C40D010 EX4C409050 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6	1690.6
2.5°	1678.9	1678.9	1678.9	1677.6	1678.2	1678.2	1677.6	1677.6
5°	1660.7	1660.0	1658.7	1658.7	1657.4	1658.7	1658.1	1658.7
7.5°	1636.0	1636.0	1634.0	1634.0	1633.3	1632.7	1632.0	1632.7
10°	1606.7	1606.7	1605.4	1604.7	1605.4	1602.8	1602.8	1602.1
12.5°	1574.2	1572.9	1571.6	1572.2	1571.6	1569.6	1569.0	1569.6
15°	1536.5	1534.5	1535.2	1533.2	1533.2	1532.6	1533.9	1533.9
17.5°	1494.9	1493.6	1492.3	1492.9	1491.6	1492.3	1491.6	1491.0
20°	1448.7	1448.0	1448.0	1445.4	1446.1	1445.4	1446.1	1448.0
22.5°	1395.4	1394.7	1395.4	1393.4	1394.7	1394.7	1396.7	1396.7
25°	1336.9	1336.2	1337.5	1338.2	1338.8	1340.8	1338.8	1339.5
27.5°	1271.8	1273.8	1275.7	1276.4	1279.0	1277.0	1275.7	1277.7
30°	1206.2	1206.2	1205.5	1208.1	1210.1	1212.0	1208.8	1208.8
32.5°	1130.7	1134.0	1134.0	1134.6	1136.6	1136.6	1136.6	1139.2
35°	1058.6	1060.5	1061.2	1058.6	1059.9	1059.2	1063.8	1063.8
37.5°	977.9	977.9	978.6	983.1	983.1	981.2	982.5	982.5
40°	901.2	901.9	899.3	900.6	903.8	902.5	903.8	905.1
42.5°	817.3	821.9	819.3	820.6	819.9	820.6	821.2	821.2
45°	737.3	738.6	738.6	739.3	740.6	741.9	738.0	737.3
47.5°	659.3	660.0	661.9	658.7	662.6	658.7	662.6	658.0
50°	580.6	583.2	581.3	582.6	580.6	580.6	580.0	579.3
52.5°	505.9	505.2	505.2	504.6	504.6	505.9	504.6	506.5
55°	431.1	431.7	430.4	429.8	429.1	431.1	429.1	427.8
57.5°	360.2	361.5	358.9	360.2	355.7	357.6	358.3	358.9
60°	294.5	292.6	292.6	290.0	290.0	291.9	289.3	289.3
62.5°	228.2	229.5	227.6	230.2	230.2	232.8	231.5	232.8
65°	174.9	175.6	176.2	176.2	176.2	180.1	178.8	176.9
67.5°	132.0	132.6	133.3	132.6	134.6	133.3	133.3	133.9
70°	95.6	96.2	96.9	96.9	96.2	96.9	96.9	96.9
72.5°	66.3	67.0	66.3	67.0	67.6	67.0	67.0	67.6
75°	43.6	43.6	42.9	42.9	42.9	42.9	43.6	42.9
77.5°	25.4	26.0	25.4	26.0	26.0	26.0	26.0	26.0
80°	15.0	15.0	15.0	14.3	15.0	15.0	15.0	14.3
82.5°	7.8	7.8	7.2	7.2	7.8	7.8	7.8	7.8
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)