

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: P858246

Luminaire Tested: **LX4C45D010 EX4C459840 4LBLWWH**

Issue Date: 2/14/2022

Test Information

Test Method: LM-79-08
Report Number: P858246
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: LX4C45D010 EX4C459840 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

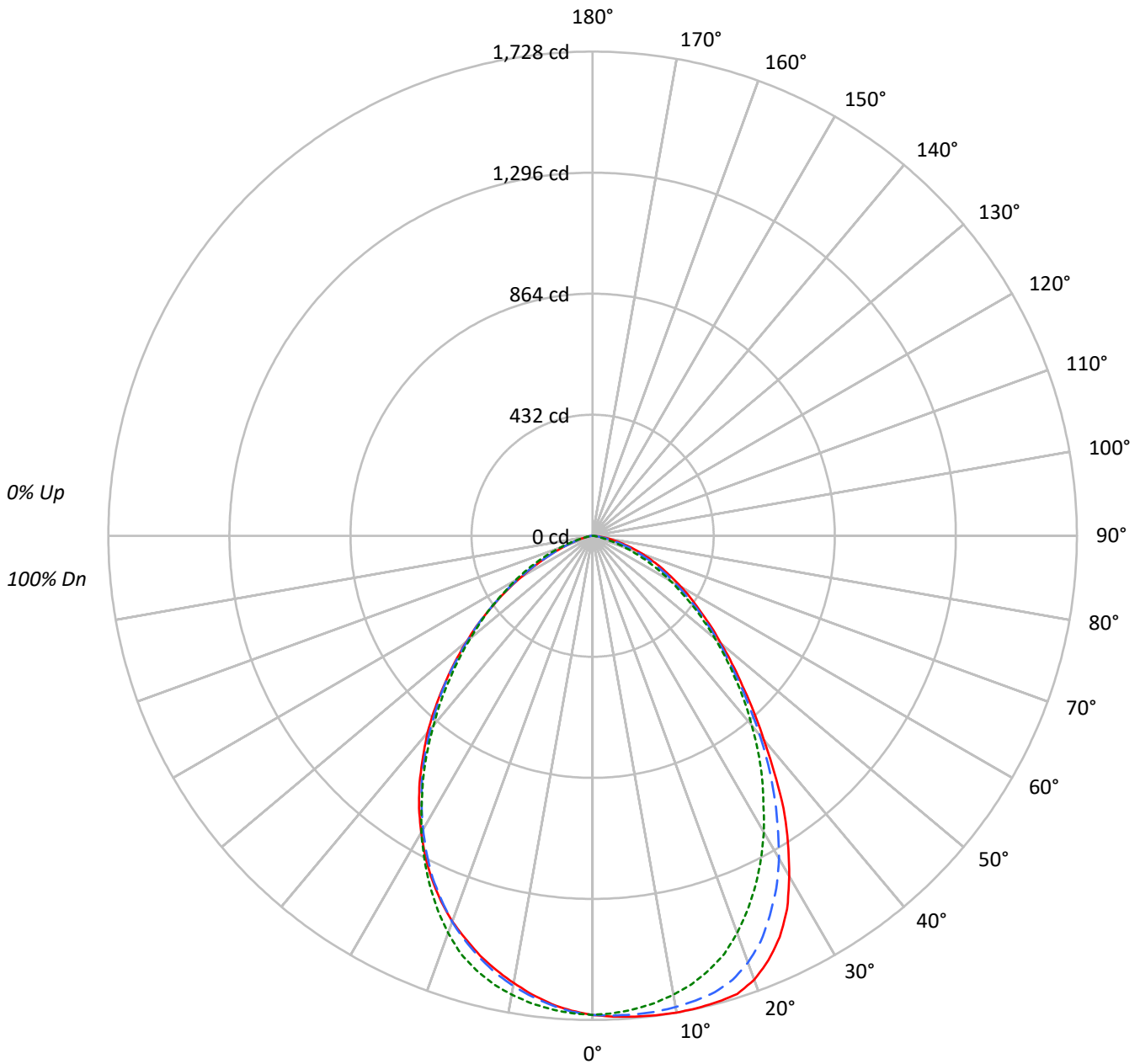
Lumens per Lamp: N/A
Luminaire Lumens: 3222.8 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68				68
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60				60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53				53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39				39
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35				35
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	210092	210092	210092
5°	212436	209192	206911
10°	215541	207420	202180
15°	219093	204123	197331
20°	220476	197166	191505
25°	214148	186522	183662
30°	199014	173352	173451
35°	178142	158030	161390
40°	152516	141674	146838
45°	131313	124902	129593
50°	114140	108732	112019
55°	100454	93536	92701
60°	89364	78037	71918
65°	78401	62529	52006
70°	67314	44182	35202
75°	54634	25632	20601
80°	39124	11178	10188
85°	14801	4652	4652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	5.0
10°-20°	456.2	14.2
20°-30°	651.4	20.2
30°-40°	681.5	21.1
40°-50°	571.0	17.7
50°-60°	399.6	12.4
60°-70°	217.6	6.8
70°-80°	75.5	2.3
80°-90°	8.7	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°	1268.8	39.4
0°-40°	1950.3	60.5
0°-60°	2920.9	90.6
0°-90°	3222.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3222.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1710	1710	1710	1710	1710	
5°	1723	1715	1696	1682	1678	165
15°	1723	1686	1605	1559	1552	486
25°	1580	1496	1376	1349	1355	721
35°	1188	1129	1054	1062	1076	736
45°	756	739	719	743	746	588
55°	469	453	437	437	433	424
65°	270	246	215	181	179	269
75°	115	93	54	43	43	124
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°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1717.9	1716.0	1716.7	1716.7	1716.7	1716.0	1716.7	1716.0	1716.0	1715.4	1714.0
5°	1722.6	1721.2	1721.2	1721.2	1720.6	1719.9	1719.9	1719.3	1717.9	1717.3	1714.6
7.5°	1725.9	1724.5	1724.5	1723.9	1723.2	1722.6	1722.0	1719.9	1717.9	1716.7	1713.4
10°	1727.8	1725.9	1725.9	1724.5	1723.2	1722.6	1721.2	1718.7	1716.0	1712.7	1708.1
12.5°	1726.5	1724.5	1723.9	1722.6	1719.9	1718.7	1717.3	1714.0	1709.4	1704.8	1698.9
15°	1722.6	1721.2	1719.9	1717.9	1714.6	1712.7	1711.4	1706.2	1700.2	1693.6	1686.4
17.5°	1714.6	1712.7	1710.1	1707.4	1702.9	1700.9	1697.6	1691.0	1682.4	1673.3	1662.0
20°	1686.4	1685.0	1682.4	1677.8	1670.6	1668.0	1663.4	1654.8	1643.7	1632.4	1620.7
22.5°	1639.7	1637.7	1633.8	1629.8	1623.2	1618.7	1614.7	1602.9	1590.3	1578.6	1567.3
25°	1579.8	1577.8	1572.6	1567.3	1560.7	1552.9	1549.0	1539.7	1527.2	1512.1	1495.6
27.5°	1502.9	1496.3	1494.4	1488.4	1478.6	1475.9	1470.0	1458.2	1446.3	1433.2	1419.4
30°	1402.9	1402.9	1399.0	1396.4	1387.1	1384.5	1377.9	1365.4	1358.8	1340.5	1329.9
32.5°	1297.0	1295.7	1292.4	1290.4	1285.2	1280.5	1274.0	1267.4	1253.0	1243.7	1229.3
35°	1187.8	1180.0	1181.3	1177.3	1174.1	1168.8	1168.1	1160.9	1147.8	1142.5	1129.3
37.5°	1063.5	1060.3	1064.8	1058.9	1055.6	1056.3	1051.0	1046.5	1041.2	1031.9	1029.3
40°	951.0	953.7	953.0	947.7	950.4	947.1	941.9	937.2	934.6	928.7	926.7
42.5°	850.5	846.4	845.2	845.2	845.8	845.8	843.2	839.9	839.9	834.0	828.1
45°	755.8	755.8	754.4	758.3	752.5	752.5	750.5	749.8	747.2	745.9	738.6
47.5°	674.2	673.5	672.8	672.2	671.6	671.6	667.6	664.3	663.6	659.7	655.8
50°	597.2	601.1	599.9	596.6	595.2	595.9	593.3	591.3	590.6	584.1	584.7
52.5°	532.7	532.1	533.4	531.5	528.2	528.8	526.2	523.5	521.0	517.7	515.0
55°	469.0	472.3	470.9	469.0	468.3	467.0	465.0	461.7	461.0	453.8	453.2
57.5°	415.6	415.0	413.7	410.4	409.8	407.8	407.8	405.1	401.2	397.3	394.0
60°	363.7	363.7	361.8	361.1	358.5	357.8	357.1	354.5	349.9	346.6	341.4
62.5°	313.7	315.1	313.7	311.8	309.8	307.1	305.9	303.9	299.9	296.6	292.0
65°	269.7	269.0	268.3	265.7	265.0	262.4	261.8	257.8	253.9	251.3	246.0
67.5°	227.6	225.6	225.6	224.3	222.9	221.0	219.6	215.7	211.2	208.5	203.2
70°	187.4	186.1	186.1	186.1	182.8	180.8	180.2	178.3	171.7	169.1	163.8
72.5°	150.6	150.0	149.3	147.3	145.4	145.4	142.8	138.8	135.5	132.2	128.2
75°	115.1	116.4	115.1	112.4	111.8	110.5	108.5	105.2	101.9	98.0	93.4
77.5°	84.2	82.8	81.6	81.6	80.3	77.6	77.0	74.3	70.4	67.8	63.1
80°	55.3	54.6	53.2	52.0	51.3	50.7	50.0	47.4	43.4	41.5	37.5
82.5°	30.2	29.6	29.6	29.0	26.9	26.9	26.3	23.7	21.7	20.4	18.5
85°	10.5	10.5	10.5	9.9	9.9	9.9	9.2	8.6	7.9	7.2	5.9
87.5°	1.3	0.6	1.3	0.6	1.3	0.6	0.6	0.6	0.6	0.6	0.6
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°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1712.7	1711.4	1710.7	1710.1	1709.4	1708.8	1708.1	1706.8	1706.2	1705.5	1704.1
5°	1712.7	1710.1	1708.8	1706.8	1705.5	1704.1	1702.2	1700.2	1698.2	1696.3	1694.3
7.5°	1710.1	1706.2	1703.5	1699.6	1698.2	1696.3	1692.3	1689.7	1686.4	1682.4	1677.8
10°	1703.5	1698.9	1693.6	1688.3	1686.4	1683.1	1677.8	1673.3	1668.0	1662.7	1658.1
12.5°	1693.0	1685.7	1679.1	1671.9	1668.0	1664.7	1657.5	1650.9	1644.3	1638.4	1630.5
15°	1677.2	1668.6	1660.1	1650.3	1645.6	1641.7	1631.2	1623.2	1612.7	1604.9	1596.9
17.5°	1651.5	1638.4	1627.9	1615.4	1608.8	1604.2	1595.0	1582.5	1572.6	1564.0	1554.8
20°	1607.5	1595.0	1580.5	1566.7	1559.5	1553.5	1540.4	1527.2	1517.4	1508.1	1498.3
22.5°	1549.6	1533.8	1523.3	1506.2	1500.3	1493.0	1477.3	1465.4	1454.3	1445.0	1435.8
25°	1479.2	1465.4	1451.0	1435.2	1427.9	1419.4	1406.2	1393.7	1386.5	1376.0	1364.8
27.5°	1398.3	1387.1	1369.4	1355.5	1348.3	1341.7	1329.2	1318.1	1307.6	1300.3	1289.8
30°	1312.8	1299.6	1283.8	1269.4	1265.5	1257.5	1246.4	1237.8	1226.7	1222.0	1217.4
32.5°	1218.7	1203.6	1191.8	1182.5	1174.7	1168.1	1162.2	1148.4	1146.4	1134.6	1133.2
35°	1116.2	1109.6	1098.4	1090.5	1083.9	1079.3	1069.5	1062.9	1055.6	1053.7	1049.0
37.5°	1019.4	1011.6	1001.1	993.8	989.2	988.6	981.4	977.3	972.1	969.5	964.2
40°	918.1	914.9	905.7	904.4	897.1	896.5	892.5	887.9	883.4	883.4	884.0
42.5°	824.8	820.8	816.9	812.3	808.4	808.4	806.4	805.1	803.7	801.8	805.1
45°	737.3	732.0	729.4	724.8	726.8	722.8	721.5	721.5	719.5	718.9	723.5
47.5°	655.8	649.8	647.2	645.9	645.9	646.5	640.6	642.6	642.0	643.2	645.3
50°	581.4	576.2	572.2	572.2	572.9	570.3	567.6	569.6	567.6	568.9	573.6
52.5°	512.4	507.1	505.2	505.2	501.2	500.5	501.9	499.2	499.9	500.5	503.1
55°	448.5	445.2	441.9	438.7	439.4	438.0	435.4	434.7	436.1	436.7	440.0
57.5°	391.4	386.7	382.1	380.9	379.5	379.5	376.2	375.6	376.9	373.6	373.6
60°	336.7	334.1	328.2	326.2	326.2	322.9	320.3	321.7	318.4	317.6	318.4
62.5°	286.1	284.1	280.2	276.3	274.9	273.6	270.3	269.0	267.7	265.0	261.1
65°	242.0	237.5	232.8	230.2	228.2	224.9	222.9	220.3	216.4	215.1	211.2
67.5°	198.0	193.3	188.8	186.8	184.9	182.8	179.6	176.3	171.7	166.4	161.8
70°	159.2	153.3	150.6	145.4	144.0	141.4	136.8	133.5	128.9	123.0	118.4
72.5°	121.7	117.7	113.8	109.1	105.8	103.9	100.0	94.7	89.4	86.1	81.6
75°	87.5	85.5	80.3	75.0	73.7	71.1	66.4	63.1	59.2	54.0	50.0
77.5°	59.2	55.3	52.0	47.4	46.0	43.4	40.8	37.5	34.9	31.6	29.0
80°	34.9	31.6	29.6	26.3	25.0	23.7	21.7	19.1	17.1	15.8	15.2
82.5°	17.1	14.4	13.8	11.9	11.1	10.5	9.2	8.6	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°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	0.6
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°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1703.5	1702.9	1702.2	1701.5	1701.5	1700.9	1700.9	1700.2	1700.2	1699.6	1699.6
5°	1691.6	1689.7	1688.3	1687.1	1687.1	1685.0	1683.8	1682.4	1681.8	1681.8	1680.5
7.5°	1675.2	1672.6	1670.0	1668.0	1667.3	1664.0	1661.4	1661.4	1658.7	1657.5	1656.1
10°	1653.5	1648.9	1645.0	1642.9	1640.4	1638.4	1635.1	1633.1	1631.2	1627.9	1627.2
12.5°	1624.0	1620.7	1614.7	1612.1	1610.8	1606.8	1601.6	1598.9	1598.3	1595.6	1593.6
15°	1590.3	1583.1	1577.8	1574.5	1574.5	1568.0	1565.4	1561.4	1558.8	1556.8	1556.2
17.5°	1547.0	1539.7	1534.4	1529.9	1528.5	1523.3	1519.3	1518.0	1514.7	1516.1	1512.8
20°	1491.1	1485.1	1481.2	1475.3	1475.3	1472.0	1470.7	1467.4	1466.0	1464.8	1466.0
22.5°	1431.2	1423.9	1417.4	1416.7	1416.7	1412.2	1411.4	1410.8	1408.1	1410.1	1409.5
25°	1360.8	1355.5	1351.6	1351.0	1351.0	1348.3	1345.7	1347.0	1349.0	1348.3	1350.3
27.5°	1287.9	1282.6	1281.3	1280.5	1279.3	1278.6	1279.9	1279.9	1281.9	1284.6	1287.1
30°	1208.8	1207.6	1205.6	1204.9	1203.6	1206.9	1208.2	1210.2	1209.6	1213.5	1216.2
32.5°	1129.9	1127.3	1126.7	1128.0	1129.9	1129.3	1133.2	1134.6	1135.9	1140.4	1142.5
35°	1050.4	1049.8	1048.4	1048.4	1049.0	1054.3	1054.3	1058.9	1061.5	1062.9	1068.1
37.5°	964.9	967.5	968.8	970.8	971.5	973.4	974.8	979.3	982.0	984.6	987.2
40°	886.6	885.3	891.2	887.3	888.6	894.5	897.1	896.5	900.4	904.4	907.0
42.5°	803.1	805.1	806.4	807.7	811.0	811.7	814.9	819.5	820.8	825.4	826.7
45°	722.1	722.8	725.4	728.1	730.1	735.3	736.7	738.6	742.6	742.6	744.5
47.5°	645.9	648.5	648.5	652.5	655.8	655.1	659.7	661.0	660.3	663.6	665.0
50°	572.9	576.8	576.2	578.8	580.1	580.8	584.7	586.1	583.4	586.7	587.3
52.5°	503.1	505.2	507.8	508.4	507.1	510.4	509.1	511.7	511.1	513.6	511.1
55°	439.4	438.7	438.7	440.0	438.7	440.0	441.3	438.7	436.7	439.4	438.7
57.5°	375.6	375.6	374.3	376.2	374.3	372.3	371.6	369.6	367.7	367.7	367.0
60°	315.7	314.4	311.8	311.1	311.1	307.8	306.5	303.9	303.9	301.2	298.6
62.5°	259.8	256.6	254.5	254.5	253.3	250.0	244.0	240.1	238.7	234.8	234.2
65°	207.2	203.9	201.9	198.0	194.7	193.3	187.4	182.8	180.8	176.9	177.5
67.5°	159.2	153.9	148.0	145.4	143.4	138.8	136.8	133.5	131.5	131.5	131.5
70°	114.4	109.9	103.9	101.9	100.6	96.7	94.7	94.1	96.0	95.3	96.0
72.5°	77.0	72.3	69.7	68.4	67.1	65.1	66.4	67.1	65.8	66.4	67.1
75°	46.7	45.4	43.4	42.7	42.7	43.4	42.7	42.7	43.4	43.4	44.1
77.5°	26.9	25.7	25.7	25.0	26.3	25.7	25.7	25.7	26.3	26.3	26.3
80°	14.4	14.4	14.4	14.4	15.2	14.4	15.2	15.2	15.2	15.2	15.2
82.5°	7.2	7.2	7.2	7.9	7.9	7.9	7.9	7.9	7.9	7.9	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°	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6
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: P858246

CATALOG NUMBER: LX4C45D010 EX4C459840 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1	1710.1
2.5°	1698.2	1698.2	1698.2	1696.9	1697.6	1697.6	1696.9	1696.9
5°	1679.8	1679.1	1677.8	1677.8	1676.6	1677.8	1677.2	1677.8
7.5°	1654.8	1654.8	1652.8	1652.8	1652.2	1651.5	1650.9	1651.5
10°	1625.2	1625.2	1624.0	1623.2	1624.0	1621.3	1621.3	1620.7
12.5°	1592.4	1591.0	1589.7	1590.3	1589.7	1587.7	1587.1	1587.7
15°	1554.2	1552.3	1552.9	1550.9	1550.9	1550.2	1551.5	1551.5
17.5°	1512.1	1510.8	1509.5	1510.2	1508.8	1509.5	1508.8	1508.1
20°	1465.4	1464.8	1464.8	1462.1	1462.8	1462.1	1462.8	1464.8
22.5°	1411.4	1410.8	1411.4	1409.5	1410.8	1410.8	1412.8	1412.8
25°	1352.2	1351.6	1353.0	1353.6	1354.3	1356.3	1354.3	1354.9
27.5°	1286.5	1288.5	1290.4	1291.1	1293.7	1291.8	1290.4	1292.4
30°	1220.1	1220.1	1219.5	1222.0	1224.0	1226.0	1222.7	1222.7
32.5°	1143.7	1147.0	1147.0	1147.8	1149.7	1149.7	1149.7	1152.3
35°	1070.8	1072.8	1073.4	1070.8	1072.1	1071.4	1076.1	1076.1
37.5°	989.2	989.2	989.8	994.5	994.5	992.5	993.8	993.8
40°	911.6	912.3	909.7	910.9	914.2	912.9	914.2	915.6
42.5°	826.7	831.4	828.7	830.0	829.4	830.0	830.7	830.7
45°	745.9	747.2	747.2	747.8	749.2	750.5	746.5	745.9
47.5°	666.9	667.6	669.5	666.3	670.2	666.3	670.2	665.6
50°	587.3	590.0	588.0	589.4	587.3	587.3	586.7	586.1
52.5°	511.7	511.1	511.1	510.4	510.4	511.7	510.4	512.4
55°	436.1	436.7	435.4	434.7	434.1	436.1	434.1	432.8
57.5°	364.4	365.7	363.0	364.4	359.7	361.8	362.4	363.0
60°	297.9	296.0	296.0	293.4	293.4	295.3	292.7	292.7
62.5°	230.9	232.2	230.2	232.8	232.8	235.4	234.2	235.4
65°	176.9	177.5	178.3	178.3	178.3	182.2	180.8	178.9
67.5°	133.5	134.2	134.8	134.2	136.2	134.8	134.8	135.5
70°	96.7	97.4	98.0	98.0	97.4	98.0	98.0	98.0
72.5°	67.1	67.8	67.1	67.8	68.4	67.8	67.8	68.4
75°	44.1	44.1	43.4	43.4	43.4	43.4	44.1	43.4
77.5°	25.7	26.3	25.7	26.3	26.3	26.3	26.3	26.3
80°	15.2	15.2	15.2	14.4	15.2	15.2	15.2	14.4
82.5°	7.9	7.9	7.2	7.2	7.9	7.9	7.9	7.9
85°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)