

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: P858232

Luminaire Tested: **LX4C45D010 EX4C459835 4LBLWW***

Issue Date: 2/9/2022

Test Information

Test Method: LM-79-08
Report Number: P858232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C45D010 EX4C459835 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

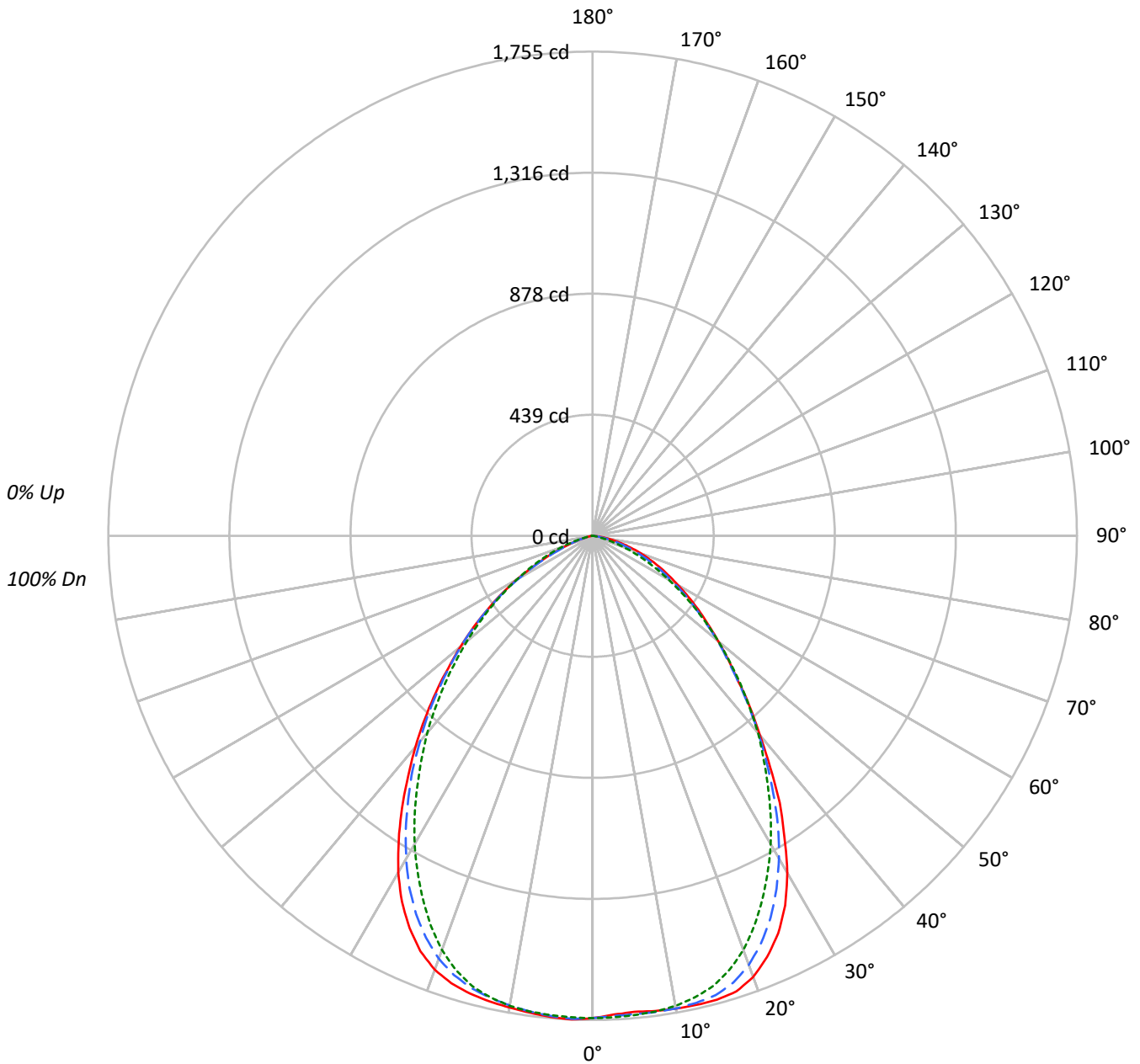
Lumens per Lamp: N/A
Luminaire Lumens: 3352.0 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
Input Current (A_{in}): 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

TEST NUMBER: P858232

CATALOG NUMBER: LX4C45D010 EX4C459835 4LBLWW*

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			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	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54			54
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39			39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36			36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	214797	214797	214797
5°	213595	215050	215864
10°	217138	215828	216639
15°	221382	214857	218457
20°	222490	208841	218803
25°	215653	197231	212711
30°	200149	183026	199780
35°	177242	166024	180587
40°	151088	149517	160165
45°	129819	131296	139514
50°	113319	113567	119588
55°	100133	95892	99148
60°	87742	78233	77914
65°	77703	60697	54011
70°	66272	41739	32077
75°	53590	22452	14667
80°	36718	5518	3750
85°	10995	1832	1832



TEST NUMBER: P858232

CATALOG NUMBER: LX4C45D010 EX4C459835 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	5.0
10°-20°	481.0	14.4
20°-30°	695.1	20.7
30°-40°	718.5	21.4
40°-50°	593.7	17.7
50°-60°	409.7	12.2
60°-70°	214.5	6.4
70°-80°	67.5	2.0
80°-90°	5.7	0.2
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°-30°	1342.3	40.0
0°-40°	2060.8	61.5
0°-60°	3064.3	91.4
0°-90°	3352.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3352.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1748	1748	1748	1748	1748	
5°	1732	1741	1744	1747	1750	166
15°	1741	1724	1689	1697	1718	491
25°	1591	1526	1455	1513	1569	726
35°	1182	1142	1107	1165	1204	734
45°	747	744	756	790	803	582
55°	468	453	448	460	463	420
65°	267	242	209	173	186	265
75°	113	89	47	32	31	121
85°	8	4	1	1	1	16
90°	0	0	0	0	0	



TEST NUMBER: P858232

CATALOG NUMBER: LX4C45D010 EX4C459835 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4
2.5°	1737.3	1737.9	1737.9	1739.3	1739.3	1739.3	1739.9	1739.9	1740.6	1741.2	1741.8
5°	1732.0	1732.0	1733.4	1734.0	1735.3	1736.0	1737.3	1737.9	1739.3	1739.9	1740.6
7.5°	1737.3	1737.3	1737.9	1738.5	1738.5	1739.3	1739.3	1739.9	1740.6	1741.2	1741.2
10°	1740.6	1740.6	1740.6	1740.6	1741.2	1741.2	1741.2	1740.6	1740.6	1740.6	1739.9
12.5°	1741.8	1741.8	1741.2	1740.6	1741.2	1740.6	1740.6	1738.5	1737.3	1736.0	1734.0
15°	1740.6	1740.6	1739.9	1739.3	1738.5	1737.3	1736.6	1733.4	1730.7	1726.8	1724.1
17.5°	1732.0	1730.7	1729.4	1728.1	1725.4	1723.5	1722.1	1716.2	1711.7	1705.1	1697.9
20°	1701.8	1700.5	1698.5	1695.3	1692.0	1689.3	1685.4	1676.8	1672.3	1662.4	1655.2
22.5°	1652.6	1651.2	1652.0	1646.0	1639.5	1635.5	1632.9	1625.6	1617.8	1605.3	1597.4
25°	1590.9	1586.9	1586.9	1577.8	1574.5	1571.8	1568.6	1560.0	1548.2	1537.0	1526.5
27.5°	1510.8	1505.5	1502.9	1501.6	1493.7	1487.8	1483.1	1476.6	1466.7	1456.9	1442.5
30°	1410.9	1410.3	1407.0	1401.1	1395.2	1392.5	1387.3	1376.1	1367.0	1359.7	1350.5
32.5°	1293.5	1292.8	1292.8	1292.8	1288.8	1288.2	1280.3	1274.4	1267.2	1256.0	1250.1
35°	1181.8	1181.2	1181.8	1171.9	1169.3	1167.4	1166.8	1162.7	1152.9	1147.7	1142.4
37.5°	1055.7	1057.7	1056.4	1053.8	1057.1	1051.2	1055.7	1047.3	1043.2	1042.0	1036.0
40°	942.1	947.4	942.1	942.8	946.1	940.2	940.2	938.9	936.2	934.9	933.7
42.5°	845.0	838.4	842.3	839.1	842.3	840.4	837.1	839.1	839.8	837.1	836.5
45°	747.2	748.4	749.8	747.8	747.8	745.9	751.1	747.8	747.8	748.4	743.9
47.5°	667.7	665.8	667.1	665.8	666.4	665.1	666.4	667.1	665.8	665.8	661.9
50°	592.9	591.6	596.1	592.2	592.2	591.6	592.2	590.9	588.9	588.9	590.2
52.5°	527.9	525.2	524.6	527.9	523.3	523.3	523.9	522.6	520.0	518.7	515.4
55°	467.5	466.8	467.5	464.9	463.5	463.5	460.2	459.0	458.3	455.0	453.0
57.5°	411.0	409.0	409.7	409.0	406.5	405.7	403.2	403.2	400.5	397.9	394.6
60°	357.1	357.1	359.1	356.5	354.6	353.2	351.9	350.6	346.0	341.4	337.4
62.5°	309.3	309.9	309.3	307.3	306.0	304.6	303.4	299.4	295.4	292.8	288.2
65°	267.3	266.5	264.6	263.2	260.0	260.0	257.4	255.4	250.8	246.8	242.3
67.5°	223.9	222.6	222.6	222.6	218.7	217.9	216.7	212.8	208.8	203.5	199.6
70°	184.5	185.8	183.9	181.8	179.9	179.2	177.3	173.4	168.7	163.5	160.2
72.5°	147.0	148.4	146.4	145.8	141.8	140.5	139.8	136.5	131.4	128.1	122.8
75°	112.9	113.6	112.3	110.9	108.3	107.6	104.4	101.7	98.4	93.3	88.6
77.5°	81.4	80.1	80.1	77.5	74.8	74.8	74.2	70.3	65.6	61.7	57.8
80°	51.9	51.2	49.2	47.9	45.9	45.3	44.7	41.4	38.1	35.5	32.8
82.5°	26.3	25.6	25.0	24.3	23.0	21.7	22.3	19.7	18.4	15.8	13.8
85°	7.8	8.6	8.6	7.8	7.2	7.2	7.2	6.6	5.3	4.6	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P858232

CATALOG NUMBER: LX4C45D010 EX4C459835 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4
2.5°	1742.6	1743.2	1743.8	1744.5	1744.5	1745.1	1745.8	1746.5	1747.1	1747.1	1747.8
5°	1741.2	1742.6	1742.6	1743.2	1743.2	1743.2	1743.8	1743.8	1743.8	1743.8	1744.5
7.5°	1741.8	1741.8	1741.8	1741.2	1741.2	1740.6	1740.6	1740.6	1739.3	1739.3	1739.3
10°	1738.5	1737.9	1737.3	1736.0	1735.3	1734.6	1733.4	1732.0	1730.7	1730.1	1728.7
12.5°	1732.0	1729.4	1726.8	1724.1	1722.8	1722.1	1719.5	1717.6	1715.6	1713.7	1712.3
15°	1718.9	1714.9	1710.4	1705.1	1703.8	1702.4	1697.9	1694.0	1691.3	1689.3	1686.0
17.5°	1692.6	1684.8	1679.5	1671.6	1668.4	1667.0	1659.8	1655.9	1651.2	1649.9	1647.3
20°	1646.0	1638.8	1628.9	1621.7	1617.8	1613.9	1607.9	1602.6	1597.4	1597.4	1594.2
22.5°	1587.6	1578.4	1565.9	1556.7	1556.1	1548.2	1542.9	1537.0	1535.0	1531.1	1531.1
25°	1514.0	1506.2	1492.3	1484.5	1480.6	1478.6	1470.0	1462.2	1458.3	1455.0	1457.6
27.5°	1432.6	1420.8	1410.3	1400.5	1397.2	1393.3	1385.3	1382.0	1374.9	1374.2	1373.5
30°	1339.4	1327.5	1317.1	1312.5	1305.9	1302.7	1296.7	1292.8	1290.2	1290.2	1288.8
32.5°	1241.6	1231.0	1225.8	1216.0	1212.7	1208.0	1204.1	1200.2	1201.5	1200.2	1200.8
35°	1135.8	1133.2	1123.4	1117.4	1117.4	1116.8	1110.2	1107.6	1106.3	1107.0	1110.2
37.5°	1035.4	1027.6	1021.0	1017.0	1020.3	1016.3	1015.7	1015.7	1019.6	1017.0	1022.3
40°	928.4	927.8	925.1	926.4	927.1	922.5	923.8	924.5	927.1	932.3	932.9
42.5°	835.1	834.5	834.5	834.5	833.2	830.6	833.2	837.8	837.1	841.1	844.3
45°	745.2	743.9	746.5	744.5	748.4	749.8	747.8	749.2	753.1	755.7	760.9
47.5°	663.1	663.1	663.8	665.1	661.1	664.4	665.8	668.4	670.3	671.7	674.2
50°	586.9	586.9	585.7	585.7	585.7	587.7	585.0	588.3	588.9	594.2	597.5
52.5°	516.7	513.5	515.4	514.1	511.5	510.2	511.5	512.1	516.1	517.4	521.3
55°	449.7	449.7	444.5	443.2	445.2	444.5	443.8	443.8	445.8	447.7	451.0
57.5°	390.7	386.7	382.7	382.1	380.1	380.8	380.8	380.1	378.8	379.5	380.1
60°	334.8	332.3	326.3	326.3	325.7	325.0	321.7	321.0	317.8	318.4	315.8
62.5°	283.7	282.3	274.5	271.8	271.8	269.8	266.5	265.9	261.3	261.3	258.7
65°	237.6	233.7	229.2	224.5	224.5	222.0	220.0	214.0	210.7	208.8	204.8
67.5°	195.6	189.8	185.1	181.2	178.6	177.9	173.4	169.4	164.2	160.9	155.0
70°	155.0	150.3	145.8	141.8	139.2	136.5	132.0	126.1	122.1	116.2	112.3
72.5°	116.9	112.9	109.0	103.7	100.4	98.4	93.9	88.6	82.0	78.1	72.9
75°	84.0	79.5	74.2	69.6	67.6	65.6	60.4	56.4	51.9	47.3	42.0
77.5°	54.5	49.2	45.3	40.0	39.4	38.1	32.8	28.9	25.6	23.0	19.7
80°	28.9	26.3	23.0	19.7	18.4	16.4	13.8	11.9	9.8	7.8	6.6
82.5°	12.5	10.5	8.6	7.2	6.6	5.9	4.6	3.9	3.3	3.3	2.6
85°	3.3	2.6	2.6	2.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.6	0.6	0.0
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: P858232

CATALOG NUMBER: LX4C45D010 EX4C459835 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4
2.5°	1748.4	1749.1	1749.8	1749.8	1750.4	1751.0	1751.0	1751.7	1752.4	1753.0	1753.0
5°	1745.1	1745.1	1745.1	1745.8	1745.8	1745.8	1745.8	1747.1	1747.1	1747.8	1748.4
7.5°	1738.5	1738.5	1738.5	1738.5	1737.9	1738.5	1737.9	1737.9	1739.3	1739.9	1740.6
10°	1728.1	1727.4	1727.4	1726.8	1726.8	1726.8	1727.4	1728.1	1728.7	1729.4	1731.3
12.5°	1711.7	1711.0	1711.0	1710.4	1710.4	1711.0	1711.7	1712.9	1715.6	1716.9	1719.5
15°	1685.4	1684.8	1685.4	1686.0	1687.4	1689.3	1691.3	1693.2	1697.3	1700.5	1703.8
17.5°	1647.3	1647.9	1648.7	1649.9	1652.0	1654.5	1659.8	1665.1	1669.6	1674.9	1680.1
20°	1594.8	1597.4	1598.1	1602.6	1604.0	1609.9	1615.8	1623.7	1630.9	1637.5	1644.7
22.5°	1531.7	1533.7	1536.4	1541.6	1544.9	1552.8	1560.0	1569.2	1577.0	1585.6	1596.1
25°	1460.2	1460.9	1468.7	1468.7	1476.6	1483.1	1491.7	1501.6	1513.4	1524.5	1531.7
27.5°	1378.8	1382.0	1388.0	1390.6	1396.5	1407.0	1414.2	1426.1	1437.8	1447.7	1455.6
30°	1293.5	1296.1	1305.9	1307.2	1311.8	1321.0	1330.8	1342.0	1351.2	1362.4	1369.6
32.5°	1203.5	1210.7	1216.6	1221.2	1222.5	1236.3	1241.6	1249.4	1259.9	1271.1	1278.3
35°	1116.2	1119.4	1128.0	1130.6	1134.6	1142.4	1152.9	1159.5	1164.7	1171.9	1180.5
37.5°	1023.5	1033.4	1035.4	1043.2	1044.6	1051.8	1057.1	1064.9	1071.5	1078.1	1079.4
40°	937.6	940.9	948.1	950.1	951.4	961.2	967.8	969.8	973.1	979.0	986.8
42.5°	850.3	853.6	861.4	859.5	865.3	870.0	873.2	881.1	884.4	886.4	886.4
45°	764.2	765.6	770.8	773.4	776.7	779.4	785.3	789.2	790.5	796.4	798.4
47.5°	682.2	683.5	687.4	692.0	690.7	694.0	700.6	702.5	703.1	707.2	709.1
50°	601.4	604.7	610.0	608.6	612.5	614.5	620.5	621.7	621.7	622.4	623.1
52.5°	525.9	528.5	529.9	531.1	533.2	536.4	539.1	537.7	540.4	543.0	541.0
55°	451.0	453.0	456.3	457.6	457.6	458.3	456.9	462.9	460.2	459.6	460.2
57.5°	382.7	380.1	379.5	382.7	384.1	383.4	381.5	384.1	384.1	382.7	380.8
60°	316.5	314.5	313.8	314.5	311.8	309.9	311.2	309.9	306.6	305.3	306.0
62.5°	256.0	254.1	248.8	248.8	247.5	246.8	241.6	242.3	239.6	235.7	237.0
65°	200.3	195.0	192.3	191.7	187.1	183.2	181.8	177.3	173.4	172.6	173.4
67.5°	150.3	144.5	139.8	137.9	135.3	132.0	127.3	123.4	124.8	124.1	126.7
70°	104.4	100.4	95.9	92.6	93.9	90.0	87.3	87.3	88.0	88.6	90.0
72.5°	69.6	64.4	62.3	60.4	59.1	56.4	57.8	57.8	57.2	57.8	56.4
75°	39.4	36.7	34.8	34.2	32.8	32.8	32.8	32.8	32.2	31.5	31.5
77.5°	17.7	16.4	15.8	15.1	15.1	15.1	14.4	13.8	13.8	13.8	13.1
80°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
82.5°	2.6	2.6	3.3	3.3	3.3	2.6	3.3	3.3	2.6	2.6	3.3
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.0	0.6	0.0
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: P858232

CATALOG NUMBER: LX4C45D010 EX4C459835 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4	1748.4
2.5°	1753.7	1754.3	1754.3	1754.3	1755.0	1755.0	1755.0	1755.0
5°	1749.1	1749.8	1749.8	1749.8	1750.4	1750.4	1750.4	1750.4
7.5°	1741.2	1741.8	1741.8	1742.6	1742.6	1743.2	1743.2	1743.8
10°	1732.0	1733.4	1734.0	1734.6	1735.3	1736.0	1736.0	1736.6
12.5°	1722.1	1723.5	1724.1	1725.4	1726.8	1727.4	1728.1	1728.7
15°	1707.7	1710.4	1711.7	1712.3	1714.9	1716.2	1716.9	1717.6
17.5°	1684.8	1690.0	1692.0	1693.2	1695.9	1698.5	1700.5	1701.2
20°	1652.0	1657.8	1660.4	1663.7	1667.6	1670.9	1672.3	1673.6
22.5°	1605.9	1612.5	1616.5	1620.4	1623.7	1627.0	1632.2	1630.3
25°	1540.3	1551.5	1556.1	1558.1	1565.3	1569.2	1571.8	1569.2
27.5°	1466.7	1473.3	1477.3	1481.9	1487.2	1491.1	1492.3	1496.3
30°	1378.1	1389.2	1388.6	1393.3	1399.8	1403.7	1405.0	1408.3
32.5°	1286.2	1291.4	1295.4	1294.7	1297.4	1304.6	1301.9	1307.9
35°	1188.3	1189.0	1195.6	1194.9	1200.2	1200.2	1200.2	1204.1
37.5°	1084.0	1091.8	1088.5	1096.5	1093.8	1095.8	1095.8	1097.1
40°	988.8	991.4	991.4	994.0	996.0	994.0	995.4	998.7
42.5°	890.3	892.9	893.6	892.3	894.2	900.1	895.6	899.5
45°	798.4	800.3	803.0	801.1	804.3	802.3	804.3	803.0
47.5°	711.7	711.1	710.4	715.6	711.1	711.7	714.4	709.7
50°	623.1	627.0	624.4	626.4	627.7	627.7	625.7	625.7
52.5°	544.3	543.6	541.6	543.6	542.4	543.0	544.3	543.0
55°	462.9	465.5	464.2	463.5	464.2	464.2	468.2	462.9
57.5°	382.7	381.5	383.4	388.0	383.4	386.7	388.7	389.3
60°	306.6	306.6	310.6	308.5	312.6	315.8	318.4	317.1
62.5°	233.7	237.0	238.4	239.0	242.9	245.6	245.6	244.9
65°	173.4	177.9	177.9	180.6	181.8	181.8	183.2	185.8
67.5°	128.1	128.1	128.7	130.0	129.3	129.3	130.6	131.4
70°	89.3	88.0	90.0	89.3	89.3	88.6	89.3	89.3
72.5°	56.4	56.4	57.2	56.4	55.1	55.8	55.8	57.2
75°	30.2	31.5	30.2	30.2	30.9	29.5	30.2	30.9
77.5°	12.5	12.5	12.5	12.5	12.5	11.9	11.9	11.9
80°	5.9	5.9	5.9	5.9	5.9	5.9	5.3	5.3
82.5°	2.6	3.3	2.6	3.3	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.6	0.0	0.6	0.0	0.0	0.0	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)