

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: P858245

Luminaire Tested: **LX4C45D010 EX4C459840 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858245
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 EX4C459840 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

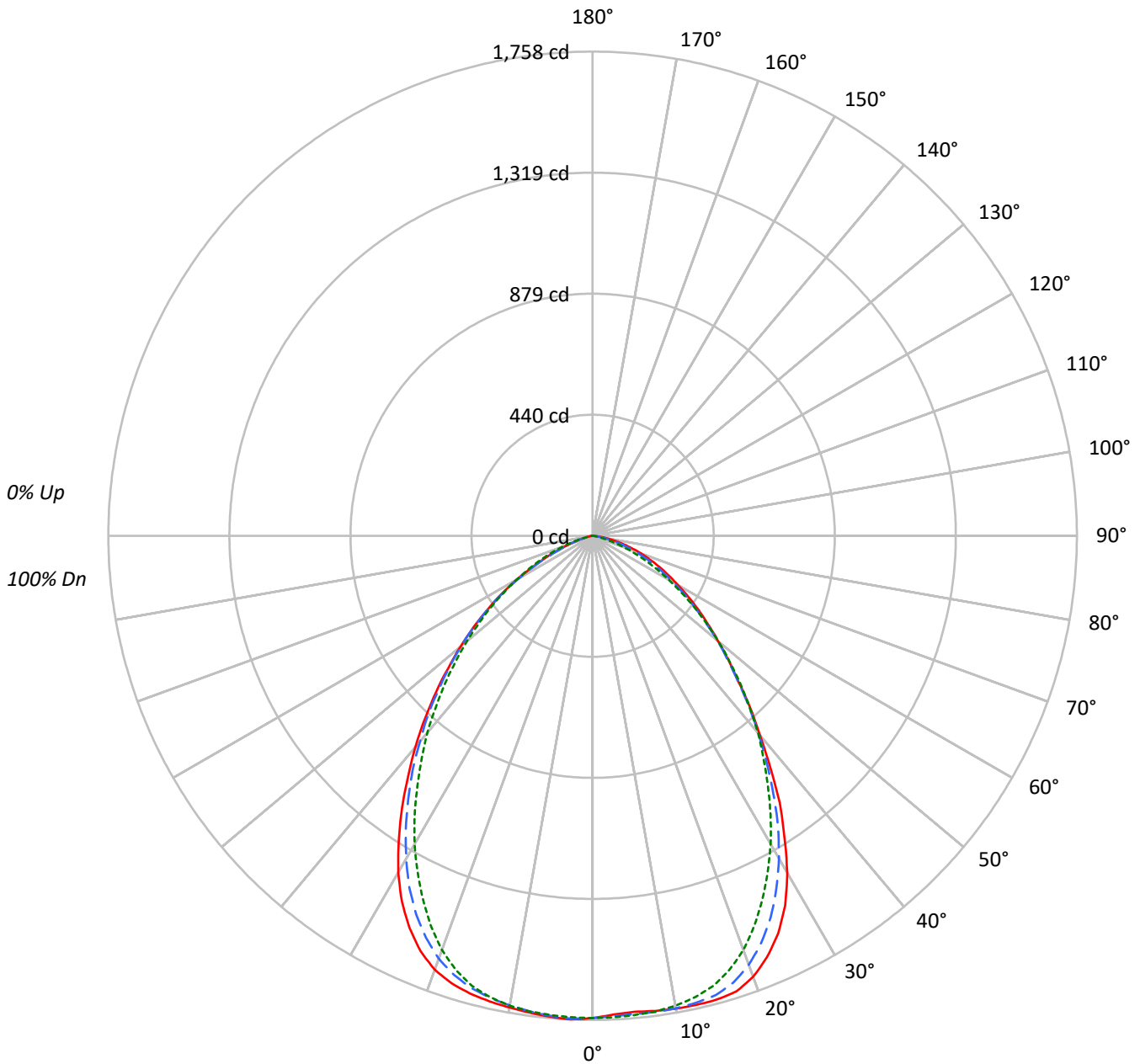
Lumens per Lamp: N/A
Luminaire Lumens: 3357.4 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	215141	215141	215141
5°	213940	215408	216209
10°	217487	216165	216975
15°	221738	215201	218800
20°	222856	209181	219143
25°	215991	197543	213050
30°	200475	183310	200106
35°	177527	166279	180887
40°	151329	149757	160422
45°	130010	131505	139740
50°	113491	113739	119779
55°	100304	96064	99298
60°	87914	78381	78037
65°	77790	60785	54099
70°	66380	41811	32112
75°	53685	22499	14667
80°	36789	5518	3750
85°	10995	1832	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	5.0
10°-20°	481.8	14.4
20°-30°	696.2	20.7
30°-40°	719.7	21.4
40°-50°	594.7	17.7
50°-60°	410.4	12.2
60°-70°	214.9	6.4
70°-80°	67.6	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°	1344.4	40.0
0°-40°	2064.1	61.5
0°-60°	3069.2	91.4
0°-90°	3357.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1751	1751	1751	1751	1751	
5°	1735	1743	1747	1750	1753	166
15°	1743	1727	1692	1700	1720	492
25°	1593	1529	1457	1516	1572	728
35°	1184	1144	1109	1167	1206	735
45°	748	745	757	792	804	583
55°	468	454	448	461	464	421
65°	268	243	209	174	186	265
75°	113	89	47	32	31	121
85°	8	4	1	1	1	16
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°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1740.1	1740.7	1740.7	1742.0	1742.0	1742.0	1742.6	1742.6	1743.4	1744.0	1744.6
5°	1734.8	1734.8	1736.1	1736.8	1738.1	1738.7	1740.1	1740.7	1742.0	1742.6	1743.4
7.5°	1740.1	1740.1	1740.7	1741.4	1741.4	1742.0	1742.0	1742.6	1743.4	1744.0	1744.0
10°	1743.4	1743.4	1743.4	1743.4	1744.0	1744.0	1744.0	1743.4	1743.4	1743.4	1742.6
12.5°	1744.6	1744.6	1744.0	1743.4	1744.0	1743.4	1743.4	1741.4	1740.1	1738.7	1736.8
15°	1743.4	1743.4	1742.6	1742.0	1741.4	1740.1	1739.3	1736.1	1733.5	1729.5	1726.9
17.5°	1734.8	1733.5	1732.1	1730.9	1728.2	1726.2	1724.9	1719.0	1714.4	1707.8	1700.6
20°	1704.6	1703.2	1701.3	1698.0	1694.7	1692.0	1688.1	1679.5	1675.0	1665.1	1657.8
22.5°	1655.3	1653.9	1654.5	1648.7	1642.1	1638.1	1635.5	1628.2	1620.4	1607.9	1600.0
25°	1593.4	1589.4	1589.4	1580.3	1577.0	1574.3	1571.1	1562.5	1550.6	1539.5	1529.0
27.5°	1513.2	1507.9	1505.3	1503.9	1496.1	1490.2	1485.6	1479.0	1469.1	1459.2	1444.8
30°	1413.2	1412.5	1409.2	1403.3	1397.4	1394.8	1389.5	1378.4	1369.2	1362.0	1352.7
32.5°	1295.5	1294.8	1294.8	1294.8	1290.9	1290.3	1282.3	1276.4	1269.2	1258.0	1252.1
35°	1183.7	1183.1	1183.7	1173.8	1171.2	1169.3	1168.5	1164.6	1154.8	1149.5	1144.3
37.5°	1057.4	1059.4	1058.1	1055.5	1058.8	1052.9	1057.4	1048.9	1044.9	1043.6	1037.7
40°	943.6	948.9	943.6	944.4	947.7	941.7	941.7	940.3	937.8	936.4	935.1
42.5°	846.4	839.8	843.7	840.5	843.7	841.7	838.4	840.5	841.1	838.4	837.8
45°	748.3	749.7	751.0	749.1	749.1	747.0	752.3	749.1	749.1	749.7	745.1
47.5°	668.8	666.8	668.1	666.8	667.5	666.1	667.5	668.1	666.8	666.8	662.8
50°	593.8	592.5	597.1	593.2	593.2	592.5	593.2	591.8	589.9	589.9	591.2
52.5°	528.7	526.1	525.4	528.7	524.1	524.1	524.8	523.5	520.9	519.5	516.2
55°	468.3	467.5	468.3	465.6	464.2	464.2	460.9	459.7	459.0	455.7	453.7
57.5°	411.6	409.7	410.4	409.7	407.1	406.4	403.8	403.8	401.1	398.5	395.2
60°	357.8	357.8	359.7	357.1	355.1	353.8	352.5	351.2	346.5	342.0	338.0
62.5°	309.7	310.4	309.7	307.7	306.4	305.2	303.8	299.9	296.0	293.3	288.7
65°	267.6	267.0	265.0	263.7	260.4	260.4	257.8	255.8	251.2	247.3	242.6
67.5°	224.3	222.9	222.9	222.9	219.0	218.3	217.0	213.0	209.1	203.9	199.9
70°	184.8	186.1	184.1	182.2	180.2	179.5	177.5	173.6	169.0	163.7	160.4
72.5°	147.3	148.7	146.7	146.0	142.1	140.7	140.1	136.8	131.5	128.2	123.0
75°	113.1	113.8	112.4	111.1	108.5	107.8	104.6	101.9	98.6	93.4	88.8
77.5°	81.5	80.3	80.3	77.6	75.0	75.0	74.3	70.4	65.7	61.8	57.9
80°	52.0	51.3	49.3	48.0	46.0	45.4	44.7	41.5	38.2	35.5	32.9
82.5°	26.3	25.7	25.0	24.3	23.0	21.7	22.4	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1745.3	1745.9	1746.7	1747.3	1747.3	1747.9	1748.6	1749.2	1749.9	1749.9	1750.6
5°	1744.0	1745.3	1745.3	1745.9	1745.9	1745.9	1746.7	1746.7	1746.7	1746.7	1747.3
7.5°	1744.6	1744.6	1744.6	1744.0	1744.0	1743.4	1743.4	1743.4	1742.0	1742.0	1742.0
10°	1741.4	1740.7	1740.1	1738.7	1738.1	1737.4	1736.1	1734.8	1733.5	1732.8	1731.5
12.5°	1734.8	1732.1	1729.5	1726.9	1725.6	1724.9	1722.3	1720.3	1718.3	1716.3	1715.1
15°	1721.6	1717.7	1713.0	1707.8	1706.5	1705.2	1700.6	1696.6	1694.0	1692.0	1688.8
17.5°	1695.3	1687.4	1682.2	1674.2	1670.9	1669.7	1662.5	1658.5	1653.9	1652.6	1650.0
20°	1648.7	1641.4	1631.5	1624.3	1620.4	1616.4	1610.5	1605.2	1600.0	1600.0	1596.7
22.5°	1590.1	1580.9	1568.4	1559.2	1558.5	1550.6	1545.4	1539.5	1537.5	1533.5	1533.5
25°	1516.4	1508.6	1494.7	1486.9	1482.9	1480.9	1472.4	1464.5	1460.6	1457.3	1459.9
27.5°	1434.9	1423.0	1412.5	1402.7	1399.4	1395.5	1387.6	1384.3	1377.0	1376.4	1375.7
30°	1341.5	1329.7	1319.2	1314.6	1308.0	1304.7	1298.8	1294.8	1292.2	1292.2	1290.9
32.5°	1243.5	1233.0	1227.8	1217.9	1214.6	1210.0	1206.1	1202.2	1203.4	1202.2	1202.8
35°	1137.7	1135.0	1125.2	1119.2	1119.2	1118.6	1112.0	1109.4	1108.1	1108.7	1112.0
37.5°	1037.1	1029.2	1022.6	1018.6	1021.9	1018.0	1017.3	1017.3	1021.3	1018.6	1023.9
40°	929.8	929.2	926.6	927.9	928.6	923.9	925.3	925.9	928.6	933.8	934.5
42.5°	836.5	835.8	835.8	835.8	834.5	831.9	834.5	839.1	838.4	842.4	845.7
45°	746.4	745.1	747.7	745.8	749.7	751.0	749.1	750.3	754.3	756.9	762.2
47.5°	664.2	664.2	664.9	666.1	662.2	665.5	666.8	669.4	671.4	672.7	675.4
50°	587.9	587.9	586.6	586.6	586.6	588.5	586.0	589.3	589.9	595.1	598.4
52.5°	517.6	514.3	516.2	514.9	512.3	511.0	512.3	512.9	516.9	518.2	522.1
55°	450.5	450.5	445.2	443.9	445.9	445.2	444.5	444.5	446.5	448.5	451.8
57.5°	391.3	387.4	383.4	382.7	380.8	381.4	381.4	380.8	379.4	380.1	380.8
60°	335.4	332.7	326.8	326.8	326.2	325.5	322.2	321.6	318.3	319.0	316.3
62.5°	284.1	282.8	274.9	272.2	272.2	270.3	267.0	266.4	261.7	261.7	259.1
65°	238.1	234.1	229.5	224.9	224.9	222.3	220.3	214.4	211.1	209.1	205.2
67.5°	196.0	190.0	185.5	181.5	178.9	178.2	173.6	169.7	164.4	161.1	155.2
70°	155.2	150.6	146.0	142.1	139.4	136.8	132.2	126.3	122.3	116.4	112.4
72.5°	117.1	113.1	109.1	103.9	100.6	98.6	94.1	88.8	82.2	78.3	73.0
75°	84.2	79.5	74.3	69.7	67.8	65.7	60.5	56.5	52.0	47.4	42.1
77.5°	54.6	49.3	45.4	40.1	39.4	38.2	32.9	28.9	25.7	23.0	19.7
80°	28.9	26.3	23.0	19.7	18.4	16.4	13.8	11.9	9.9	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1751.2	1751.9	1752.5	1752.5	1753.2	1753.9	1753.9	1754.5	1755.1	1755.8	1755.8
5°	1747.9	1747.9	1747.9	1748.6	1748.6	1748.6	1748.6	1749.9	1749.9	1750.6	1751.2
7.5°	1741.4	1741.4	1741.4	1741.4	1740.7	1741.4	1740.7	1740.7	1742.0	1742.6	1743.4
10°	1730.9	1730.2	1730.2	1729.5	1729.5	1729.5	1730.2	1730.9	1731.5	1732.1	1734.1
12.5°	1714.4	1713.7	1713.7	1713.0	1713.0	1713.7	1714.4	1715.7	1718.3	1719.6	1722.3
15°	1688.1	1687.4	1688.1	1688.8	1690.0	1692.0	1694.0	1696.0	1699.9	1703.2	1706.5
17.5°	1650.0	1650.6	1651.2	1652.6	1654.5	1657.2	1662.5	1667.7	1672.3	1677.5	1682.8
20°	1597.4	1600.0	1600.6	1605.2	1606.6	1612.4	1618.4	1626.3	1633.5	1640.1	1647.3
22.5°	1534.2	1536.2	1538.8	1544.1	1547.4	1555.3	1562.5	1571.7	1579.5	1588.1	1598.6
25°	1462.5	1463.2	1471.1	1471.1	1479.0	1485.6	1494.1	1503.9	1515.8	1526.9	1534.2
27.5°	1381.0	1384.3	1390.2	1392.8	1398.7	1409.2	1416.5	1428.3	1440.2	1450.1	1457.9
30°	1295.5	1298.1	1308.0	1309.3	1313.9	1323.1	1333.0	1344.1	1353.4	1364.5	1371.8
32.5°	1205.4	1212.7	1218.6	1223.1	1224.5	1238.3	1243.5	1251.5	1262.0	1273.1	1280.4
35°	1118.0	1121.2	1129.7	1132.4	1136.3	1144.3	1154.8	1161.3	1166.6	1173.8	1182.4
37.5°	1025.2	1035.0	1037.1	1044.9	1046.3	1053.5	1058.8	1066.6	1073.2	1079.8	1081.1
40°	939.1	942.4	949.6	951.6	952.9	962.7	969.3	971.3	974.6	980.5	988.4
42.5°	851.6	854.9	862.8	860.8	866.8	871.3	874.6	882.6	885.8	887.8	887.8
45°	765.5	766.8	772.1	774.7	778.0	780.5	786.5	790.4	791.8	797.7	799.6
47.5°	683.3	684.6	688.5	693.2	691.8	695.1	701.7	703.7	704.3	708.2	710.2
50°	602.4	605.7	610.9	609.6	613.5	615.5	621.5	622.8	622.8	623.4	624.0
52.5°	526.8	529.3	530.7	532.0	534.0	537.3	539.9	538.6	541.2	543.9	541.9
55°	451.8	453.7	457.0	458.4	458.4	459.0	457.7	463.6	460.9	460.3	460.9
57.5°	383.4	380.8	380.1	383.4	384.7	384.1	382.1	384.7	384.7	383.4	381.4
60°	316.9	315.0	314.3	315.0	312.4	310.4	311.7	310.4	307.1	305.8	306.4
62.5°	256.5	254.5	249.2	249.2	247.9	247.3	242.0	242.6	240.1	236.0	237.4
65°	200.6	195.3	192.7	192.0	187.4	183.4	182.2	177.5	173.6	172.9	173.6
67.5°	150.6	144.6	140.1	138.1	135.5	132.2	127.6	123.6	124.9	124.3	126.9
70°	104.6	100.6	96.0	92.7	94.1	90.1	87.5	87.5	88.1	88.8	90.1
72.5°	69.7	64.5	62.5	60.5	59.2	56.5	57.9	57.9	57.2	57.9	56.5
75°	39.4	36.8	34.9	34.2	32.9	32.9	32.9	32.9	32.2	31.6	31.6
77.5°	17.7	16.4	15.8	15.2	15.2	15.2	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: P858245

CATALOG NUMBER: LX4C45D010 EX4C459840 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2	1751.2
2.5°	1756.5	1757.2	1757.2	1757.2	1757.8	1757.8	1757.8	1757.8
5°	1751.9	1752.5	1752.5	1752.5	1753.2	1753.2	1753.2	1753.2
7.5°	1744.0	1744.6	1744.6	1745.3	1745.3	1745.9	1745.9	1746.7
10°	1734.8	1736.1	1736.8	1737.4	1738.1	1738.7	1738.7	1739.3
12.5°	1724.9	1726.2	1726.9	1728.2	1729.5	1730.2	1730.9	1731.5
15°	1710.5	1713.0	1714.4	1715.1	1717.7	1719.0	1719.6	1720.3
17.5°	1687.4	1692.7	1694.7	1696.0	1698.6	1701.3	1703.2	1703.9
20°	1654.5	1660.5	1663.1	1666.4	1670.3	1673.6	1675.0	1676.2
22.5°	1608.5	1615.1	1619.0	1623.0	1626.3	1629.6	1634.8	1632.9
25°	1542.7	1553.9	1558.5	1560.5	1567.8	1571.7	1574.3	1571.7
27.5°	1469.1	1475.7	1479.7	1484.2	1489.5	1493.4	1494.7	1498.7
30°	1380.3	1391.5	1390.8	1395.5	1402.0	1406.0	1407.3	1410.6
32.5°	1288.3	1293.6	1297.5	1296.8	1299.4	1306.7	1304.1	1310.0
35°	1190.3	1190.9	1197.5	1196.9	1202.2	1202.2	1202.2	1206.1
37.5°	1085.7	1093.6	1090.3	1098.2	1095.6	1097.6	1097.6	1098.9
40°	990.4	993.0	993.0	995.6	997.6	995.6	997.0	1000.3
42.5°	891.7	894.3	895.0	893.7	895.7	901.6	897.0	900.9
45°	799.6	801.6	804.3	802.3	805.6	803.6	805.6	804.3
47.5°	712.9	712.2	711.5	716.8	712.2	712.9	715.4	710.9
50°	624.0	628.1	625.4	627.3	628.7	628.7	626.7	626.7
52.5°	545.1	544.5	542.5	544.5	543.2	543.9	545.1	543.9
55°	463.6	466.2	465.0	464.2	465.0	465.0	468.9	463.6
57.5°	383.4	382.1	384.1	388.6	384.1	387.4	389.3	390.0
60°	307.1	307.1	311.0	309.1	313.0	316.3	319.0	317.6
62.5°	234.1	237.4	238.7	239.3	243.4	245.9	245.9	245.3
65°	173.6	178.2	178.2	180.8	182.2	182.2	183.4	186.1
67.5°	128.2	128.2	128.9	130.2	129.6	129.6	130.9	131.5
70°	89.4	88.1	90.1	89.4	89.4	88.8	89.4	89.4
72.5°	56.5	56.5	57.2	56.5	55.2	55.9	55.9	57.2
75°	30.2	31.6	30.2	30.2	30.9	29.6	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)