

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: P858219

Luminaire Tested: **LX4C45D010 EX4C459830 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858219
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 EX4C459830 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

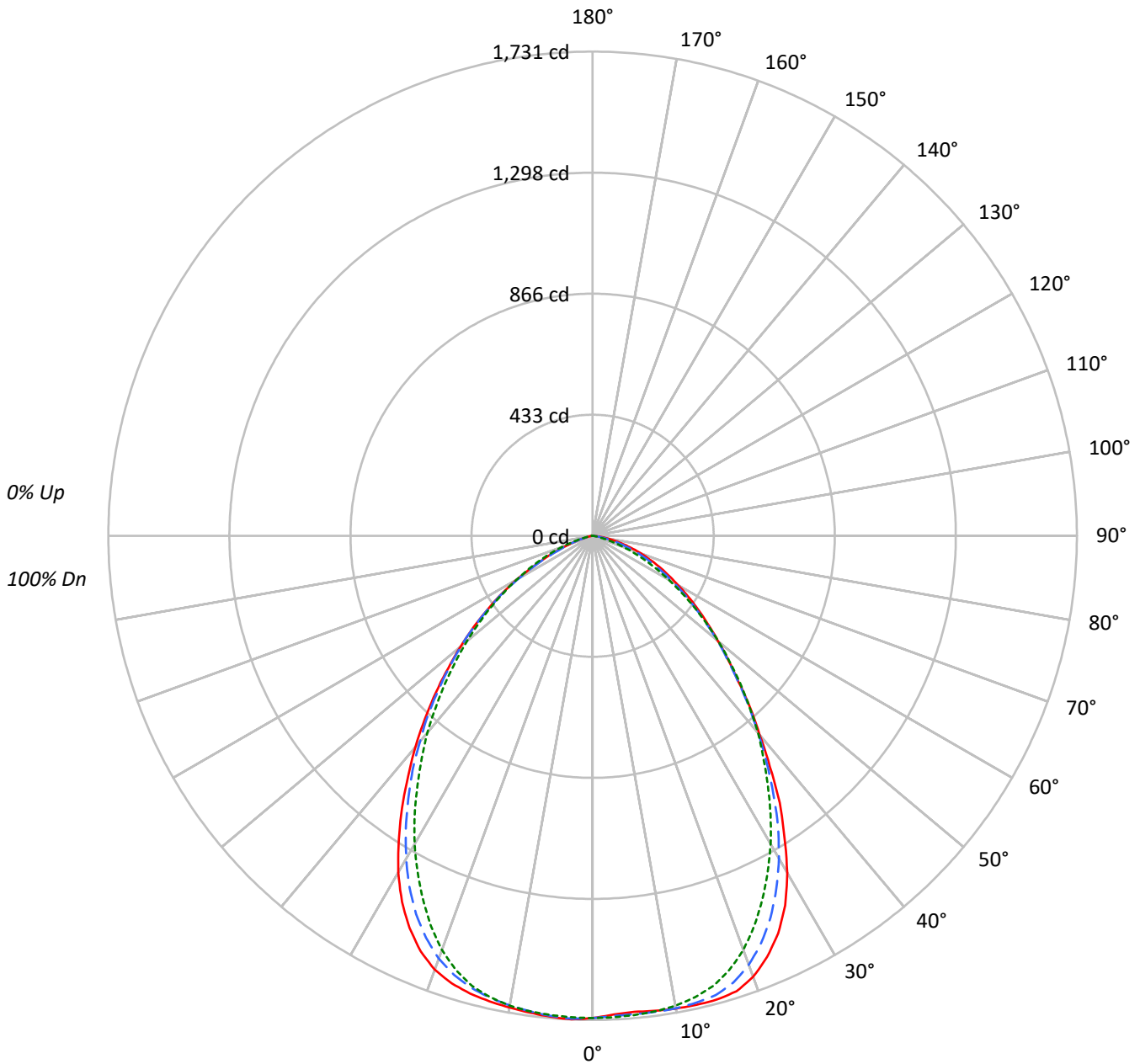
Lumens per Lamp: N/A
Luminaire Lumens: 3305.7 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P858219

CATALOG NUMBER: LX4C45D010 EX4C459830 4LBLWW*

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°	211836	211836	211836
5°	210635	212078	212867
10°	214131	212834	213645
15°	218317	211894	215430
20°	219417	205965	215770
25°	212657	194493	209756
30°	197397	180487	197028
35°	174797	163729	178082
40°	149003	147448	157936
45°	128012	129472	137586
50°	111751	112000	117944
55°	98741	94586	97777
60°	86538	77177	76833
65°	76598	59854	53285
70°	65338	41164	31610
75°	52878	22120	14430
80°	36223	5518	3679
85°	10995	1832	1832



TEST NUMBER: P858219

CATALOG NUMBER: LX4C45D010 EX4C459830 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	5.0
10°-20°	474.4	14.4
20°-30°	685.4	20.7
30°-40°	708.6	21.4
40°-50°	585.5	17.7
50°-60°	404.1	12.2
60°-70°	211.5	6.4
70°-80°	66.6	2.0
80°-90°	5.6	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°	1323.7	40.0
0°-40°	2032.3	61.5
0°-60°	3021.9	91.4
0°-90°	3305.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3305.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1724	1724	1724	1724	1724	
5°	1708	1716	1720	1723	1726	164
15°	1716	1700	1666	1674	1694	484
25°	1569	1505	1435	1492	1547	716
35°	1166	1127	1092	1149	1187	723
45°	737	734	745	780	792	574
55°	461	447	442	454	456	414
65°	264	239	206	171	183	261
75°	111	87	47	32	30	119
85°	8	4	1	1	1	16
90°	0	0	0	0	0	



TEST NUMBER: P858219

CATALOG NUMBER: LX4C45D010 EX4C459830 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3
2.5°	1713.2	1713.8	1713.8	1715.2	1715.2	1715.2	1715.8	1715.8	1716.5	1717.1	1717.8
5°	1708.0	1708.0	1709.4	1710.0	1711.3	1712.0	1713.2	1713.8	1715.2	1715.8	1716.5
7.5°	1713.2	1713.2	1713.8	1714.6	1714.6	1715.2	1715.2	1715.8	1716.5	1717.1	1717.1
10°	1716.5	1716.5	1716.5	1716.5	1717.1	1717.1	1717.1	1716.5	1716.5	1716.5	1715.8
12.5°	1717.8	1717.8	1717.1	1716.5	1717.1	1716.5	1716.5	1714.6	1713.2	1712.0	1710.0
15°	1716.5	1716.5	1715.8	1715.2	1714.6	1713.2	1712.6	1709.4	1706.8	1702.9	1700.3
17.5°	1708.0	1706.8	1705.5	1704.2	1701.6	1699.7	1698.3	1692.5	1688.0	1681.5	1674.4
20°	1678.3	1677.0	1675.0	1671.8	1668.5	1666.0	1662.1	1653.6	1649.1	1639.4	1632.3
22.5°	1629.7	1628.4	1629.0	1623.2	1616.7	1612.9	1610.3	1603.2	1595.4	1583.1	1575.4
25°	1568.8	1564.9	1564.9	1555.9	1552.7	1550.0	1546.8	1538.4	1526.8	1515.8	1505.3
27.5°	1489.8	1484.7	1482.1	1480.8	1473.0	1467.2	1462.6	1456.2	1446.5	1436.8	1422.5
30°	1391.5	1390.8	1387.6	1381.8	1375.9	1373.3	1368.1	1357.1	1348.0	1340.9	1331.9
32.5°	1275.5	1274.9	1274.9	1274.9	1271.0	1270.4	1262.6	1256.7	1249.6	1238.6	1232.8
35°	1165.5	1164.8	1165.5	1155.8	1153.2	1151.2	1150.6	1146.7	1137.0	1131.8	1126.6
37.5°	1041.1	1043.1	1041.8	1039.2	1042.4	1036.6	1041.1	1032.7	1028.8	1027.6	1021.8
40°	929.1	934.3	929.1	929.8	933.0	927.2	927.2	925.9	923.3	922.0	920.7
42.5°	833.3	826.8	830.7	827.4	830.7	828.8	825.6	827.4	828.2	825.6	824.9
45°	736.8	738.1	739.4	737.5	737.5	735.5	740.7	737.5	737.5	738.1	733.6
47.5°	658.5	656.6	657.8	656.6	657.2	655.9	657.2	657.8	656.6	656.6	652.7
50°	584.7	583.4	587.9	584.0	584.0	583.4	584.0	582.8	580.8	580.8	582.1
52.5°	520.6	518.0	517.3	520.6	516.1	516.1	516.7	515.4	512.8	511.5	508.3
55°	461.0	460.3	461.0	458.4	457.1	457.1	453.9	452.6	451.9	448.7	446.8
57.5°	405.3	403.4	404.0	403.4	400.7	400.1	397.5	397.5	395.0	392.4	389.2
60°	352.2	352.2	354.2	351.6	349.7	348.3	347.1	345.7	341.2	336.7	332.8
62.5°	305.0	305.6	305.0	303.0	301.8	300.4	299.2	295.3	291.3	288.7	284.3
65°	263.5	262.9	260.9	259.7	256.4	256.4	253.8	251.8	247.4	243.4	238.9
67.5°	220.8	219.5	219.5	219.5	215.6	215.0	213.7	209.8	205.9	200.7	196.8
70°	181.9	183.3	181.3	179.3	177.4	176.7	174.8	170.9	166.4	161.2	158.0
72.5°	145.0	146.3	144.4	143.7	139.8	138.6	138.0	134.7	129.5	126.3	121.1
75°	111.4	112.0	110.8	109.4	106.8	106.2	102.9	100.3	97.1	91.9	87.4
77.5°	80.3	79.0	79.0	76.4	73.8	73.8	73.1	69.3	64.7	60.9	57.0
80°	51.2	50.5	48.6	47.3	45.3	44.7	44.1	40.8	37.5	35.0	32.4
82.5°	25.9	25.2	24.6	24.0	22.7	21.4	22.0	19.4	18.1	15.5	13.6
85°	7.8	8.4	8.4	7.8	7.1	7.1	7.1	6.5	5.2	4.5	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: P858219

CATALOG NUMBER: LX4C45D010 EX4C459830 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3
2.5°	1718.4	1719.1	1719.7	1720.3	1720.3	1721.0	1721.7	1722.3	1722.9	1722.9	1723.6
5°	1717.1	1718.4	1718.4	1719.1	1719.1	1719.1	1719.7	1719.7	1719.7	1719.7	1720.3
7.5°	1717.8	1717.8	1717.8	1717.1	1717.1	1716.5	1716.5	1716.5	1715.2	1715.2	1715.2
10°	1714.6	1713.8	1713.2	1712.0	1711.3	1710.6	1709.4	1708.0	1706.8	1706.1	1704.8
12.5°	1708.0	1705.5	1702.9	1700.3	1698.9	1698.3	1695.7	1693.8	1691.9	1689.9	1688.6
15°	1695.1	1691.2	1686.7	1681.5	1680.2	1678.9	1674.4	1670.5	1667.9	1666.0	1662.7
17.5°	1669.2	1661.4	1656.2	1648.5	1645.3	1643.9	1636.8	1633.0	1628.4	1627.2	1624.5
20°	1623.2	1616.1	1606.4	1599.2	1595.4	1591.5	1585.7	1580.5	1575.4	1575.4	1572.1
22.5°	1565.6	1556.5	1544.2	1535.1	1534.5	1526.8	1521.6	1515.8	1513.8	1509.9	1509.9
25°	1493.1	1485.3	1471.7	1464.0	1460.0	1458.1	1449.7	1441.9	1438.0	1434.8	1437.4
27.5°	1412.8	1401.1	1390.8	1381.0	1377.8	1374.0	1366.1	1362.9	1355.8	1355.2	1354.6
30°	1320.8	1309.2	1298.8	1294.3	1287.9	1284.6	1278.8	1274.9	1272.3	1272.3	1271.0
32.5°	1224.4	1214.0	1208.8	1199.1	1195.9	1191.4	1187.4	1183.6	1184.9	1183.6	1184.2
35°	1120.1	1117.5	1107.8	1102.0	1102.0	1101.4	1094.9	1092.3	1091.0	1091.7	1094.9
37.5°	1021.0	1013.3	1006.9	1002.9	1006.2	1002.3	1001.7	1001.7	1005.5	1002.9	1008.1
40°	915.6	914.9	912.3	913.6	914.2	909.7	911.0	911.6	914.2	919.4	920.1
42.5°	823.6	823.0	823.0	823.0	821.7	819.1	821.7	826.2	825.6	829.4	832.6
45°	734.9	733.6	736.2	734.3	738.1	739.4	737.5	738.8	742.6	745.2	750.4
47.5°	653.9	653.9	654.6	655.9	652.0	655.3	656.6	659.2	661.0	662.4	665.0
50°	578.8	578.8	577.6	577.6	577.6	579.5	576.9	580.2	580.8	586.0	589.2
52.5°	509.5	506.3	508.3	507.0	504.4	503.1	504.4	505.0	508.9	510.3	514.1
55°	443.6	443.6	438.4	437.0	439.0	438.4	437.7	437.7	439.6	441.6	444.8
57.5°	385.2	381.4	377.5	376.9	374.9	375.5	375.5	374.9	373.6	374.3	374.9
60°	330.2	327.6	321.8	321.8	321.1	320.5	317.3	316.7	313.4	314.1	311.4
62.5°	279.7	278.4	270.6	268.1	268.1	266.1	262.9	262.3	257.7	257.7	255.1
65°	234.3	230.5	226.0	221.4	221.4	218.8	216.9	211.1	207.9	205.9	202.0
67.5°	193.0	187.1	182.6	178.7	176.1	175.5	170.9	167.0	161.9	158.6	152.8
70°	152.8	148.3	143.7	139.8	137.2	134.7	130.1	124.3	120.5	114.6	110.8
72.5°	115.2	111.4	107.5	102.3	99.1	97.1	92.6	87.4	81.0	77.0	71.9
75°	82.8	78.4	73.1	68.7	66.7	64.7	59.6	55.6	51.2	46.6	41.5
77.5°	53.8	48.6	44.7	39.5	38.9	37.5	32.4	28.4	25.2	22.7	19.4
80°	28.4	25.9	22.7	19.4	18.1	16.2	13.6	11.7	9.7	7.8	6.5
82.5°	12.3	10.3	8.4	7.1	6.5	5.8	4.5	3.9	3.2	3.2	2.6
85°	3.2	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: P858219

CATALOG NUMBER: LX4C45D010 EX4C459830 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3
2.5°	1724.3	1724.9	1725.5	1725.5	1726.1	1726.9	1726.9	1727.5	1728.1	1728.7	1728.7
5°	1721.0	1721.0	1721.0	1721.7	1721.7	1721.7	1721.7	1722.9	1722.9	1723.6	1724.3
7.5°	1714.6	1714.6	1714.6	1714.6	1713.8	1714.6	1713.8	1713.8	1715.2	1715.8	1716.5
10°	1704.2	1703.5	1703.5	1702.9	1702.9	1702.9	1703.5	1704.2	1704.8	1705.5	1707.4
12.5°	1688.0	1687.4	1687.4	1686.7	1686.7	1687.4	1688.0	1689.3	1691.9	1693.2	1695.7
15°	1662.1	1661.4	1662.1	1662.7	1664.0	1666.0	1667.9	1669.9	1673.7	1677.0	1680.2
17.5°	1624.5	1625.2	1625.8	1627.2	1629.0	1631.6	1636.8	1642.1	1646.5	1651.7	1656.9
20°	1572.8	1575.4	1576.0	1580.5	1581.8	1587.7	1593.5	1601.2	1608.3	1614.9	1621.9
22.5°	1510.6	1512.5	1515.1	1520.2	1523.5	1531.3	1538.4	1547.4	1555.3	1563.7	1574.0
25°	1440.0	1440.6	1448.5	1448.5	1456.2	1462.6	1471.1	1480.8	1492.4	1503.5	1510.6
27.5°	1359.7	1362.9	1368.7	1371.3	1377.2	1387.6	1394.7	1406.4	1418.0	1427.7	1435.4
30°	1275.5	1278.1	1287.9	1289.1	1293.6	1302.7	1312.5	1323.4	1332.5	1343.5	1350.6
32.5°	1186.8	1194.0	1199.7	1204.3	1205.6	1219.2	1224.4	1232.1	1242.6	1253.5	1260.7
35°	1100.7	1104.0	1112.4	1114.9	1118.9	1126.6	1137.0	1143.5	1148.7	1155.8	1164.2
37.5°	1009.5	1019.2	1021.0	1028.8	1030.1	1037.3	1042.4	1050.2	1056.7	1063.1	1064.5
40°	924.6	927.9	935.0	936.9	938.2	947.9	954.3	956.3	959.6	965.4	973.2
42.5°	838.5	841.7	849.5	847.5	853.4	857.9	861.2	868.9	872.1	874.1	874.1
45°	753.7	754.9	760.1	762.7	766.0	768.6	774.4	778.3	779.6	785.4	787.3
47.5°	672.7	674.1	677.9	682.5	681.1	684.4	690.8	692.8	693.4	697.3	699.3
50°	593.1	596.3	601.5	600.2	604.1	606.0	611.9	613.2	613.2	613.8	614.5
52.5°	518.6	521.2	522.6	523.8	525.8	529.0	531.6	530.3	532.9	535.5	533.5
55°	444.8	446.8	450.0	451.3	451.3	451.9	450.7	456.5	453.9	453.3	453.9
57.5°	377.5	374.9	374.3	377.5	378.8	378.1	376.2	378.8	378.8	377.5	375.5
60°	312.1	310.1	309.5	310.1	307.6	305.6	306.9	305.6	302.4	301.1	301.8
62.5°	252.5	250.6	245.4	245.4	244.1	243.4	238.3	238.9	236.3	232.5	233.7
65°	197.5	192.3	189.7	189.0	184.5	180.7	179.3	174.8	170.9	170.3	170.9
67.5°	148.3	142.4	138.0	136.0	133.4	130.1	125.6	121.7	123.1	122.3	124.9
70°	102.9	99.1	94.5	91.3	92.6	88.7	86.1	86.1	86.8	87.4	88.7
72.5°	68.7	63.5	61.5	59.6	58.2	55.6	57.0	57.0	56.4	57.0	55.6
75°	38.9	36.3	34.3	33.7	32.4	32.4	32.4	32.4	31.7	31.1	31.1
77.5°	17.5	16.2	15.5	14.9	14.9	14.9	14.3	13.6	13.6	13.6	12.9
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	2.6	2.6	3.2	3.2	3.2	2.6	3.2	3.2	2.6	2.6	3.2
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: P858219

CATALOG NUMBER: LX4C45D010 EX4C459830 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3	1724.3
2.5°	1729.4	1730.1	1730.1	1730.1	1730.7	1730.7	1730.7	1730.7
5°	1724.9	1725.5	1725.5	1725.5	1726.1	1726.1	1726.1	1726.1
7.5°	1717.1	1717.8	1717.8	1718.4	1718.4	1719.1	1719.1	1719.7
10°	1708.0	1709.4	1710.0	1710.6	1711.3	1712.0	1712.0	1712.6
12.5°	1698.3	1699.7	1700.3	1701.6	1702.9	1703.5	1704.2	1704.8
15°	1684.1	1686.7	1688.0	1688.6	1691.2	1692.5	1693.2	1693.8
17.5°	1661.4	1666.6	1668.5	1669.9	1672.5	1675.0	1677.0	1677.6
20°	1629.0	1634.9	1637.5	1640.7	1644.6	1647.8	1649.1	1650.4
22.5°	1583.7	1590.2	1594.1	1598.0	1601.2	1604.4	1609.6	1607.7
25°	1519.0	1530.0	1534.5	1536.5	1543.6	1547.4	1550.0	1547.4
27.5°	1446.5	1452.9	1456.8	1461.4	1466.6	1470.4	1471.7	1475.6
30°	1359.1	1370.1	1369.4	1374.0	1380.4	1384.3	1385.6	1388.9
32.5°	1268.4	1273.6	1277.5	1276.8	1279.4	1286.5	1283.9	1289.8
35°	1171.9	1172.6	1179.1	1178.4	1183.6	1183.6	1183.6	1187.4
37.5°	1069.0	1076.8	1073.5	1081.3	1078.7	1080.6	1080.6	1082.0
40°	975.1	977.7	977.7	980.3	982.3	980.3	981.5	984.8
42.5°	878.0	880.6	881.2	880.0	881.8	887.7	883.2	887.0
45°	787.3	789.3	791.9	789.9	793.2	791.2	793.2	791.9
47.5°	701.9	701.3	700.6	705.7	701.3	701.9	704.5	699.9
50°	614.5	618.3	615.7	617.7	619.0	619.0	617.1	617.1
52.5°	536.7	536.1	534.2	536.1	534.8	535.5	536.7	535.5
55°	456.5	459.1	457.7	457.1	457.7	457.7	461.7	456.5
57.5°	377.5	376.2	378.1	382.6	378.1	381.4	383.3	384.0
60°	302.4	302.4	306.2	304.4	308.2	311.4	314.1	312.7
62.5°	230.5	233.7	235.1	235.7	239.6	242.2	242.2	241.5
65°	170.9	175.5	175.5	178.1	179.3	179.3	180.7	183.3
67.5°	126.3	126.3	126.9	128.2	127.5	127.5	128.9	129.5
70°	88.0	86.8	88.7	88.0	88.0	87.4	88.0	88.0
72.5°	55.6	55.6	56.4	55.6	54.4	55.0	55.0	56.4
75°	29.8	31.1	29.8	29.8	30.4	29.2	29.8	30.4
77.5°	12.3	12.3	12.3	12.3	12.3	11.7	11.7	11.7
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.2	5.2
82.5°	2.6	3.2	2.6	3.2	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)