

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: P858207

Luminaire Tested: **LX4C45D010 EX4C459827 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858207
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 EX4C459827 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

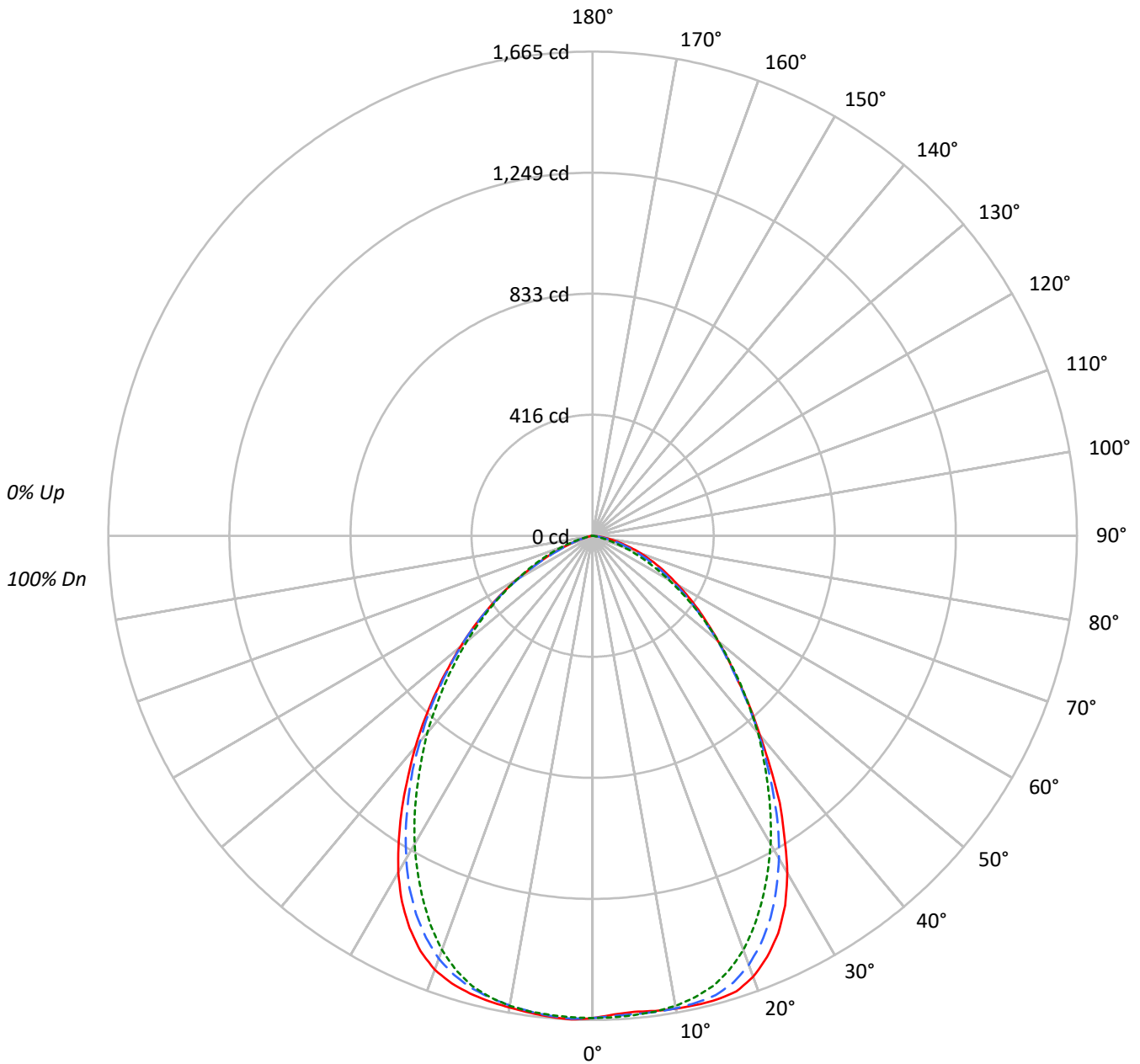
Lumens per Lamp: N/A
Luminaire Lumens: 3179.9 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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°	203765	203765	203765
5°	202632	204013	204777
10°	205973	204750	205511
15°	209999	203830	207239
20°	211063	198120	207573
25°	204578	187091	201785
30°	189878	173621	189524
35°	168139	157490	171318
40°	143342	141835	151938
45°	123148	124555	132339
50°	107489	107738	113433
55°	94993	90987	94050
60°	83270	74228	73933
65°	73691	57587	51250
70°	62860	39584	30424
75°	50837	21313	13860
80°	34808	5306	3537
85°	10572	1692	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	5.0
10°-20°	456.3	14.4
20°-30°	659.4	20.7
30°-40°	681.7	21.4
40°-50°	563.2	17.7
50°-60°	388.7	12.2
60°-70°	203.5	6.4
70°-80°	64.1	2.0
80°-90°	5.4	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°	1273.3	40.0
0°-40°	1955.0	61.5
0°-60°	2906.9	91.4
0°-90°	3179.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3179.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1659	1659	1659	1659	1659	
5°	1643	1651	1654	1657	1660	157
15°	1651	1636	1603	1610	1629	466
25°	1509	1448	1380	1436	1489	689
35°	1121	1084	1050	1105	1142	696
45°	709	706	717	750	762	553
55°	444	430	425	437	439	398
65°	254	230	198	164	176	251
75°	107	84	45	30	29	115
85°	8	4	1	1	1	15
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°	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6
2.5°	1648.0	1648.7	1648.7	1649.9	1649.9	1649.9	1650.5	1650.5	1651.1	1651.8	1652.4
5°	1643.1	1643.1	1644.4	1645.0	1646.2	1646.8	1648.0	1648.7	1649.9	1650.5	1651.1
7.5°	1648.0	1648.0	1648.7	1649.3	1649.3	1649.9	1649.9	1650.5	1651.1	1651.8	1651.8
10°	1651.1	1651.1	1651.1	1651.1	1651.8	1651.8	1651.8	1651.1	1651.1	1651.1	1650.5
12.5°	1652.4	1652.4	1651.8	1651.1	1651.8	1651.1	1651.1	1649.3	1648.0	1646.8	1645.0
15°	1651.1	1651.1	1650.5	1649.9	1649.3	1648.0	1647.4	1644.4	1641.9	1638.1	1635.6
17.5°	1643.1	1641.9	1640.6	1639.4	1636.9	1635.0	1633.8	1628.1	1623.8	1617.5	1610.7
20°	1614.4	1613.2	1611.3	1608.2	1605.1	1602.6	1598.9	1590.8	1586.4	1577.0	1570.2
22.5°	1567.7	1566.4	1567.1	1561.5	1555.3	1551.5	1549.0	1542.2	1534.7	1522.9	1515.4
25°	1509.2	1505.4	1505.4	1496.7	1493.6	1491.1	1488.0	1479.9	1468.7	1458.1	1448.1
27.5°	1433.2	1428.2	1425.7	1424.5	1417.0	1411.4	1407.0	1400.8	1391.5	1382.1	1368.4
30°	1338.5	1337.9	1334.8	1329.1	1323.5	1321.1	1316.1	1305.5	1296.8	1289.9	1281.2
32.5°	1227.0	1226.4	1226.4	1226.4	1222.7	1222.0	1214.6	1208.9	1202.1	1191.5	1185.9
35°	1121.1	1120.5	1121.1	1111.8	1109.3	1107.5	1106.8	1103.1	1093.7	1088.7	1083.7
37.5°	1001.5	1003.4	1002.1	999.6	1002.8	997.1	1001.5	993.5	989.7	988.5	982.9
40°	893.8	898.8	893.8	894.4	897.5	891.9	891.9	890.7	888.2	886.9	885.7
42.5°	801.6	795.3	799.1	796.0	799.1	797.2	794.1	796.0	796.6	794.1	793.5
45°	708.8	710.1	711.3	709.5	709.5	707.6	712.5	709.5	709.5	710.1	705.7
47.5°	633.4	631.5	632.8	631.5	632.2	630.9	632.2	632.8	631.5	631.5	627.9
50°	562.4	561.2	565.5	561.8	561.8	561.2	561.8	560.5	558.7	558.7	559.9
52.5°	500.8	498.3	497.7	500.8	496.4	496.4	497.1	495.8	493.3	492.1	488.9
55°	443.5	442.8	443.5	441.0	439.7	439.7	436.6	435.3	434.7	431.6	429.7
57.5°	389.9	388.0	388.6	388.0	385.6	385.0	382.5	382.5	380.0	377.5	374.4
60°	338.9	338.9	340.7	338.2	336.4	335.1	333.9	332.6	328.3	323.9	320.1
62.5°	293.4	294.0	293.4	291.5	290.3	289.0	287.8	284.0	280.3	277.8	273.4
65°	253.5	252.9	251.0	249.8	246.7	246.7	244.2	242.3	237.9	234.2	229.8
67.5°	212.4	211.2	211.2	211.2	207.4	206.8	205.5	201.8	198.1	193.1	189.3
70°	175.0	176.3	174.4	172.6	170.7	170.1	168.2	164.4	160.1	155.1	152.0
72.5°	139.6	140.8	138.9	138.3	134.6	133.3	132.7	129.6	124.6	121.5	116.5
75°	107.1	107.7	106.5	105.2	102.7	102.1	99.1	96.6	93.5	88.5	84.1
77.5°	77.2	76.0	76.0	73.5	71.0	71.0	70.4	66.6	62.2	58.6	54.8
80°	49.2	48.6	46.7	45.5	43.6	43.0	42.4	39.2	36.1	33.6	31.1
82.5°	24.9	24.3	23.6	23.0	21.8	20.5	21.1	18.7	17.5	15.0	13.1
85°	7.5	8.1	8.1	7.5	6.9	6.9	6.9	6.2	5.0	4.4	3.7
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°	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6
2.5°	1653.0	1653.6	1654.3	1654.9	1654.9	1655.5	1656.1	1656.8	1657.4	1657.4	1658.0
5°	1651.8	1653.0	1653.0	1653.6	1653.6	1653.6	1654.3	1654.3	1654.3	1654.3	1654.9
7.5°	1652.4	1652.4	1652.4	1651.8	1651.8	1651.1	1651.1	1651.1	1649.9	1649.9	1649.9
10°	1649.3	1648.7	1648.0	1646.8	1646.2	1645.6	1644.4	1643.1	1641.9	1641.3	1640.0
12.5°	1643.1	1640.6	1638.1	1635.6	1634.4	1633.8	1631.3	1629.4	1627.5	1625.6	1624.4
15°	1630.6	1626.9	1622.5	1617.5	1616.3	1615.0	1610.7	1606.9	1604.5	1602.6	1599.5
17.5°	1605.8	1598.3	1593.3	1585.8	1582.7	1581.4	1574.5	1570.8	1566.4	1565.2	1562.8
20°	1561.5	1554.7	1545.3	1538.4	1534.7	1530.9	1525.3	1520.4	1515.4	1515.4	1512.3
22.5°	1506.1	1497.3	1485.5	1476.8	1476.2	1468.7	1463.7	1458.1	1456.2	1452.5	1452.5
25°	1436.3	1428.8	1415.7	1408.2	1404.5	1402.6	1394.6	1387.1	1383.4	1380.2	1382.7
27.5°	1359.1	1347.9	1337.9	1328.5	1325.4	1321.7	1314.2	1311.1	1304.3	1303.6	1303.0
30°	1270.6	1259.4	1249.4	1245.0	1238.9	1235.8	1230.2	1226.4	1223.9	1223.9	1222.7
32.5°	1177.8	1167.8	1162.8	1153.6	1150.4	1146.1	1142.3	1138.6	1139.8	1138.6	1139.2
35°	1077.5	1075.1	1065.7	1060.1	1060.1	1059.5	1053.2	1050.7	1049.5	1050.1	1053.2
37.5°	982.3	974.8	968.5	964.8	967.9	964.2	963.5	963.5	967.3	964.8	969.8
40°	880.7	880.1	877.6	878.8	879.4	875.1	876.3	876.9	879.4	884.4	885.1
42.5°	792.3	791.7	791.7	791.7	790.4	787.9	790.4	794.7	794.1	797.8	801.0
45°	707.0	705.7	708.2	706.3	710.1	711.3	709.5	710.7	714.4	716.9	721.9
47.5°	629.1	629.1	629.7	630.9	627.3	630.3	631.5	634.0	635.9	637.1	639.6
50°	556.8	556.8	555.6	555.6	555.6	557.4	554.9	558.1	558.7	563.7	566.8
52.5°	490.2	487.1	488.9	487.7	485.2	483.9	485.2	485.8	489.6	490.8	494.6
55°	426.7	426.7	421.7	420.5	422.3	421.7	421.1	421.1	423.0	424.8	427.9
57.5°	370.6	366.9	363.1	362.5	360.6	361.2	361.2	360.6	359.4	360.0	360.6
60°	317.6	315.1	309.5	309.5	308.9	308.3	305.2	304.6	301.5	302.1	299.6
62.5°	269.0	267.8	260.4	257.9	257.9	256.0	252.9	252.3	247.9	247.9	245.4
65°	225.4	221.8	217.4	213.0	213.0	210.5	208.7	203.0	199.9	198.1	194.3
67.5°	185.6	180.0	175.7	171.9	169.4	168.8	164.4	160.7	155.7	152.6	147.0
70°	147.0	142.6	138.3	134.6	132.1	129.6	125.2	119.6	115.8	110.2	106.5
72.5°	110.8	107.1	103.4	98.4	95.3	93.5	89.1	84.1	77.8	74.1	69.1
75°	79.7	75.4	70.4	66.0	64.1	62.2	57.3	53.6	49.2	44.9	39.9
77.5°	51.7	46.7	43.0	38.0	37.4	36.1	31.1	27.4	24.3	21.8	18.7
80°	27.4	24.9	21.8	18.7	17.5	15.6	13.1	11.2	9.4	7.5	6.2
82.5°	11.9	10.0	8.1	6.9	6.2	5.6	4.4	3.7	3.1	3.1	2.5
85°	3.1	2.5	2.5	1.9	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6
2.5°	1658.6	1659.3	1659.9	1659.9	1660.5	1661.1	1661.1	1661.8	1662.4	1663.0	1663.0
5°	1655.5	1655.5	1655.5	1656.1	1656.1	1656.1	1656.1	1657.4	1657.4	1658.0	1658.6
7.5°	1649.3	1649.3	1649.3	1649.3	1648.7	1649.3	1648.7	1648.7	1649.9	1650.5	1651.1
10°	1639.4	1638.8	1638.8	1638.1	1638.1	1638.1	1638.8	1639.4	1640.0	1640.6	1642.5
12.5°	1623.8	1623.1	1623.1	1622.5	1622.5	1623.1	1623.8	1625.0	1627.5	1628.8	1631.3
15°	1598.9	1598.3	1598.9	1599.5	1600.8	1602.6	1604.5	1606.3	1610.0	1613.2	1616.3
17.5°	1562.8	1563.4	1564.0	1565.2	1567.1	1569.6	1574.5	1579.5	1583.9	1588.9	1593.9
20°	1512.9	1515.4	1516.1	1520.4	1521.7	1527.2	1532.8	1540.3	1547.2	1553.4	1560.3
22.5°	1453.1	1455.0	1457.5	1462.5	1465.6	1473.1	1479.9	1488.6	1496.1	1504.2	1514.2
25°	1385.2	1385.9	1393.3	1393.3	1400.8	1407.0	1415.1	1424.5	1435.7	1446.2	1453.1
27.5°	1308.0	1311.1	1316.7	1319.2	1324.8	1334.8	1341.6	1352.9	1364.0	1373.4	1380.9
30°	1227.0	1229.5	1238.9	1240.1	1244.4	1253.2	1262.5	1273.1	1281.8	1292.4	1299.3
32.5°	1141.7	1148.6	1154.2	1158.6	1159.7	1172.8	1177.8	1185.3	1195.3	1205.8	1212.7
35°	1058.9	1062.0	1070.1	1072.6	1076.3	1083.7	1093.7	1100.0	1105.0	1111.8	1119.8
37.5°	971.0	980.4	982.3	989.7	991.0	997.8	1002.8	1010.3	1016.5	1022.7	1024.0
40°	889.4	892.5	899.4	901.3	902.5	911.9	918.0	919.9	923.0	928.7	936.2
42.5°	806.6	809.7	817.2	815.3	820.9	825.3	828.4	835.8	839.0	840.8	840.8
45°	725.0	726.2	731.2	733.7	736.8	739.3	745.0	748.7	750.0	755.5	757.4
47.5°	647.1	648.4	652.1	656.5	655.3	658.4	664.6	666.5	667.1	670.8	672.6
50°	570.5	573.7	578.7	577.4	581.1	583.0	588.6	589.8	589.8	590.4	591.0
52.5°	498.9	501.4	502.7	503.9	505.8	508.8	511.3	510.1	512.6	515.1	513.2
55°	427.9	429.7	432.9	434.1	434.1	434.7	433.5	439.1	436.6	436.0	436.6
57.5°	363.1	360.6	360.0	363.1	364.4	363.7	361.9	364.4	364.4	363.1	361.2
60°	300.2	298.4	297.8	298.4	295.9	294.0	295.3	294.0	290.9	289.6	290.3
62.5°	242.9	241.0	236.0	236.0	234.8	234.2	229.2	229.8	227.3	223.6	224.8
65°	189.9	184.9	182.5	181.9	177.5	173.8	172.6	168.2	164.4	163.8	164.4
67.5°	142.6	137.1	132.7	130.8	128.3	125.2	120.8	117.1	118.3	117.7	120.2
70°	99.1	95.3	91.0	87.8	89.1	85.3	82.8	82.8	83.5	84.1	85.3
72.5°	66.0	61.0	59.2	57.3	56.1	53.6	54.8	54.8	54.2	54.8	53.6
75°	37.4	34.9	33.0	32.4	31.1	31.1	31.1	31.1	30.5	29.9	29.9
77.5°	16.9	15.6	15.0	14.4	14.4	14.4	13.7	13.1	13.1	13.1	12.5
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
82.5°	2.5	2.5	3.1	3.1	3.1	2.5	3.1	3.1	2.5	2.5	3.1
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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: P858207

CATALOG NUMBER: LX4C45D010 EX4C459827 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6	1658.6
2.5°	1663.6	1664.3	1664.3	1664.3	1664.9	1664.9	1664.9	1664.9
5°	1659.3	1659.9	1659.9	1659.9	1660.5	1660.5	1660.5	1660.5
7.5°	1651.8	1652.4	1652.4	1653.0	1653.0	1653.6	1653.6	1654.3
10°	1643.1	1644.4	1645.0	1645.6	1646.2	1646.8	1646.8	1647.4
12.5°	1633.8	1635.0	1635.6	1636.9	1638.1	1638.8	1639.4	1640.0
15°	1620.0	1622.5	1623.8	1624.4	1626.9	1628.1	1628.8	1629.4
17.5°	1598.3	1603.3	1605.1	1606.3	1608.8	1611.3	1613.2	1613.8
20°	1567.1	1572.7	1575.2	1578.3	1582.0	1585.2	1586.4	1587.7
22.5°	1523.5	1529.7	1533.4	1537.2	1540.3	1543.4	1548.4	1546.5
25°	1461.2	1471.8	1476.2	1478.1	1484.8	1488.6	1491.1	1488.6
27.5°	1391.5	1397.7	1401.5	1405.7	1410.7	1414.5	1415.7	1419.5
30°	1307.4	1318.0	1317.4	1321.7	1327.9	1331.6	1332.9	1336.0
32.5°	1220.2	1225.2	1228.9	1228.3	1230.8	1237.6	1235.2	1240.7
35°	1127.3	1128.0	1134.2	1133.6	1138.6	1138.6	1138.6	1142.3
37.5°	1028.4	1035.8	1032.7	1040.1	1037.6	1039.5	1039.5	1040.8
40°	938.0	940.5	940.5	943.0	944.9	943.0	944.3	947.4
42.5°	844.6	847.1	847.7	846.4	848.3	853.9	849.6	853.3
45°	757.4	759.2	761.7	759.9	763.0	761.1	763.0	761.7
47.5°	675.1	674.5	673.9	678.9	674.5	675.1	677.6	673.3
50°	591.0	594.8	592.3	594.2	595.4	595.4	593.5	593.5
52.5°	516.3	515.7	513.8	515.7	514.4	515.1	516.3	515.1
55°	439.1	441.6	440.3	439.7	440.3	440.3	444.1	439.1
57.5°	363.1	361.9	363.7	368.1	363.7	366.9	368.7	369.4
60°	290.9	290.9	294.6	292.8	296.5	299.6	302.1	300.9
62.5°	221.8	224.8	226.1	226.7	230.4	232.9	232.9	232.3
65°	164.4	168.8	168.8	171.3	172.6	172.6	173.8	176.3
67.5°	121.5	121.5	122.1	123.3	122.7	122.7	124.0	124.6
70°	84.7	83.5	85.3	84.7	84.7	84.1	84.7	84.7
72.5°	53.6	53.6	54.2	53.6	52.3	53.0	53.0	54.2
75°	28.6	29.9	28.6	28.6	29.2	28.0	28.6	29.2
77.5°	11.9	11.9	11.9	11.9	11.9	11.2	11.2	11.2
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.0	5.0
82.5°	2.5	3.1	2.5	3.1	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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)