

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: P858044

Luminaire Tested: **LX4C40D010 EX4C409850 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858044
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: LX4C40D010 EX4C409850 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

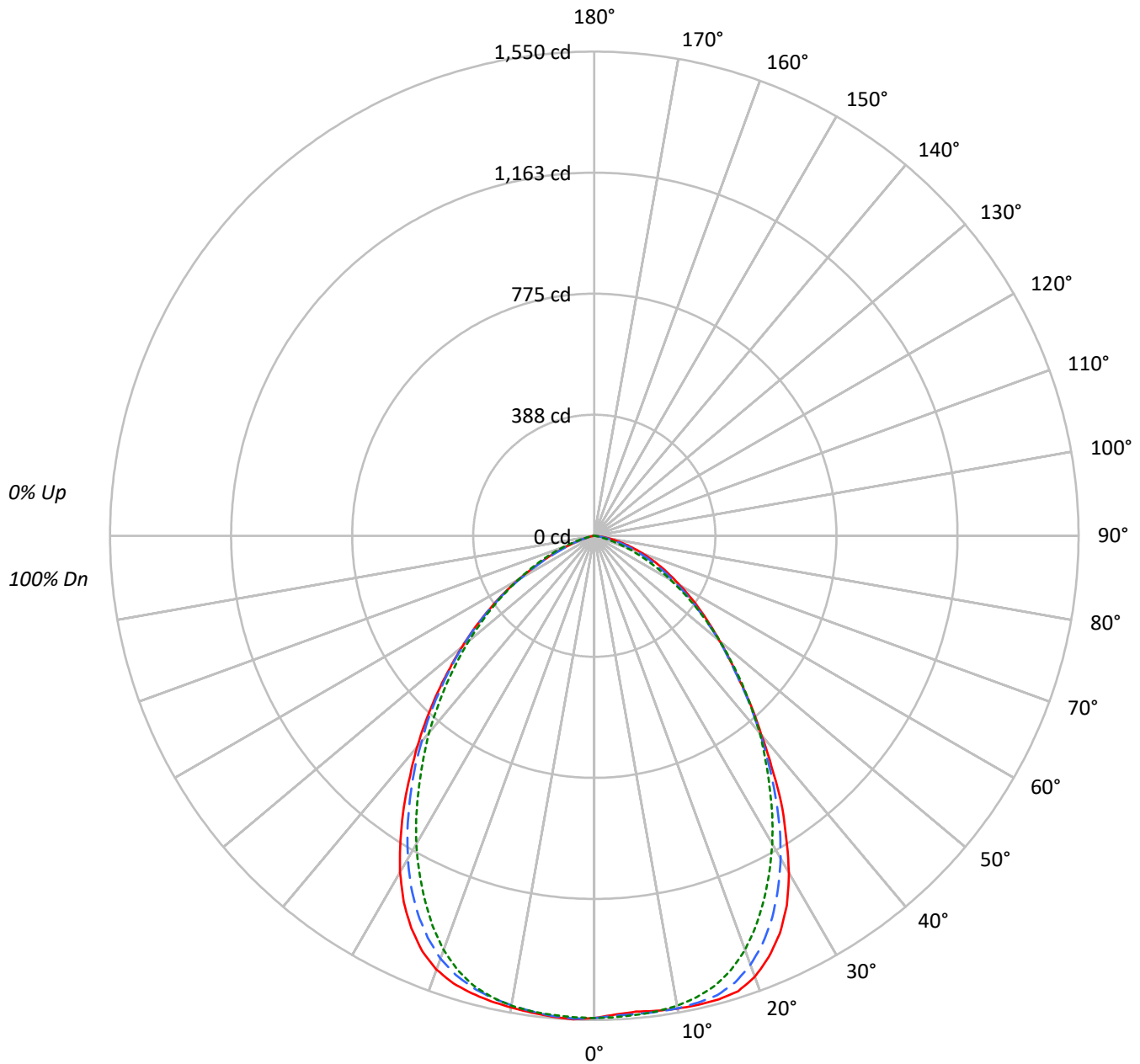
Lumens per Lamp: N/A
Luminaire Lumens: 2959.7 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	189661	189661	189661
5°	188585	189880	190595
10°	191714	190566	191290
15°	195461	189713	192880
20°	196447	184406	193191
25°	190412	174132	187810
30°	176728	161592	176387
35°	156500	146572	159455
40°	133415	132020	141418
45°	114617	115937	123182
50°	100055	100265	105578
55°	88417	84690	87539
60°	77471	69093	68798
65°	68604	53575	47703
70°	58514	36854	28305
75°	47325	19794	12958
80°	32403	4952	3254
85°	9867	1692	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	5.0
10°-20°	424.7	14.4
20°-30°	613.7	20.7
30°-40°	634.4	21.4
40°-50°	524.2	17.7
50°-60°	361.8	12.2
60°-70°	189.4	6.4
70°-80°	59.6	2.0
80°-90°	5.1	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°	1185.1	40.0
0°-40°	1819.6	61.5
0°-60°	2705.6	91.4
0°-90°	2959.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2959.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1544	1544	1544	1544	1544	
5°	1529	1537	1540	1543	1546	146
15°	1537	1522	1492	1499	1516	434
25°	1405	1348	1285	1336	1386	641
35°	1044	1009	977	1028	1063	648
45°	660	657	667	698	709	514
55°	413	400	395	406	409	371
65°	236	214	184	153	164	234
75°	100	78	42	28	27	107
85°	7	4	1	1	1	14
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°	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1533.9	1534.5	1534.5	1535.7	1535.7	1535.7	1536.2	1536.2	1536.8	1537.4	1538.0
5°	1529.2	1529.2	1530.4	1531.0	1532.2	1532.7	1533.9	1534.5	1535.7	1536.2	1536.8
7.5°	1533.9	1533.9	1534.5	1535.0	1535.0	1535.7	1535.7	1536.2	1536.8	1537.4	1537.4
10°	1536.8	1536.8	1536.8	1536.8	1537.4	1537.4	1537.4	1536.8	1536.8	1536.8	1536.2
12.5°	1538.0	1538.0	1537.4	1536.8	1537.4	1536.8	1536.8	1535.0	1533.9	1532.7	1531.0
15°	1536.8	1536.8	1536.2	1535.7	1535.0	1533.9	1533.4	1530.4	1528.1	1524.6	1522.3
17.5°	1529.2	1528.1	1526.9	1525.8	1523.5	1521.8	1520.6	1515.3	1511.3	1505.5	1499.1
20°	1502.6	1501.4	1499.7	1496.8	1493.9	1491.6	1488.1	1480.6	1476.5	1467.8	1461.5
22.5°	1459.2	1458.0	1458.5	1453.4	1447.6	1444.1	1441.8	1435.3	1428.4	1417.4	1410.5
25°	1404.7	1401.2	1401.2	1393.1	1390.1	1387.8	1385.0	1377.4	1367.0	1357.1	1347.9
27.5°	1334.0	1329.3	1327.0	1325.8	1318.9	1313.6	1309.5	1303.7	1295.1	1286.3	1273.6
30°	1245.8	1245.2	1242.3	1237.1	1231.9	1229.5	1224.9	1215.1	1207.0	1200.6	1192.4
32.5°	1142.1	1141.4	1141.4	1141.4	1138.0	1137.4	1130.5	1125.2	1118.9	1109.0	1103.8
35°	1043.5	1042.9	1043.5	1034.8	1032.5	1030.8	1030.1	1026.7	1018.0	1013.4	1008.7
37.5°	932.1	933.9	932.8	930.4	933.3	928.1	932.1	924.6	921.2	920.0	914.7
40°	831.9	836.5	831.9	832.4	835.4	830.1	830.1	829.0	826.6	825.5	824.3
42.5°	746.1	740.3	743.8	740.9	743.8	742.0	739.2	740.9	741.5	739.2	738.5
45°	659.7	660.9	662.0	660.3	660.3	658.6	663.2	660.3	660.3	660.9	656.9
47.5°	589.5	587.8	589.0	587.8	588.4	587.2	588.4	589.0	587.8	587.8	584.4
50°	523.5	522.3	526.4	522.9	522.9	522.3	522.9	521.8	520.0	520.0	521.1
52.5°	466.1	463.8	463.2	466.1	462.0	462.0	462.6	461.5	459.2	458.0	455.1
55°	412.8	412.2	412.8	410.5	409.3	409.3	406.4	405.2	404.7	401.7	400.0
57.5°	362.9	361.2	361.8	361.2	358.8	358.3	356.0	356.0	353.7	351.3	348.4
60°	315.3	315.3	317.1	314.8	313.0	311.8	310.7	309.5	305.5	301.4	297.9
62.5°	273.1	273.6	273.1	271.3	270.1	268.9	267.8	264.3	260.8	258.5	254.5
65°	236.0	235.3	233.6	232.5	229.5	229.5	227.2	225.5	221.4	217.9	213.9
67.5°	197.7	196.5	196.5	196.5	193.1	192.4	191.3	187.8	184.3	179.7	176.2
70°	162.9	164.1	162.3	160.6	158.8	158.3	156.5	153.0	149.0	144.4	141.4
72.5°	129.8	131.0	129.3	128.7	125.2	124.0	123.5	120.6	115.9	113.1	108.4
75°	99.7	100.3	99.2	98.0	95.7	95.1	92.2	89.9	86.9	82.3	78.3
77.5°	71.9	70.7	70.7	68.4	66.1	66.1	65.5	62.1	58.0	54.5	51.0
80°	45.8	45.2	43.5	42.4	40.6	40.0	39.4	36.6	33.6	31.3	29.0
82.5°	23.2	22.7	22.0	21.5	20.3	19.2	19.7	17.4	16.2	13.9	12.2
85°	7.0	7.6	7.6	7.0	6.4	6.4	6.4	5.8	4.6	4.1	3.5
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°	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1538.5	1539.1	1539.7	1540.3	1540.3	1540.8	1541.5	1542.0	1542.6	1542.6	1543.2
5°	1537.4	1538.5	1538.5	1539.1	1539.1	1539.1	1539.7	1539.7	1539.7	1539.7	1540.3
7.5°	1538.0	1538.0	1538.0	1537.4	1537.4	1536.8	1536.8	1536.8	1535.7	1535.7	1535.7
10°	1535.0	1534.5	1533.9	1532.7	1532.2	1531.6	1530.4	1529.2	1528.1	1527.6	1526.4
12.5°	1529.2	1526.9	1524.6	1522.3	1521.1	1520.6	1518.3	1516.5	1514.8	1513.0	1511.9
15°	1517.7	1514.2	1510.2	1505.5	1504.4	1503.2	1499.1	1495.6	1493.3	1491.6	1488.7
17.5°	1494.5	1487.5	1482.9	1475.9	1473.1	1471.9	1465.5	1462.0	1458.0	1456.8	1454.5
20°	1453.4	1446.9	1438.3	1431.9	1428.4	1424.9	1419.7	1415.1	1410.5	1410.5	1407.5
22.5°	1401.7	1393.6	1382.6	1374.5	1373.9	1367.0	1362.3	1357.1	1355.4	1351.9	1351.9
25°	1336.8	1329.9	1317.7	1310.7	1307.2	1305.5	1297.9	1291.0	1287.5	1284.6	1287.0
27.5°	1264.9	1254.5	1245.2	1236.5	1233.6	1230.2	1223.2	1220.3	1213.9	1213.3	1212.8
30°	1182.6	1172.2	1162.9	1158.8	1153.0	1150.2	1144.9	1141.4	1139.1	1139.1	1138.0
32.5°	1096.2	1086.9	1082.3	1073.7	1070.7	1066.7	1063.2	1059.7	1060.9	1059.7	1060.3
35°	1002.9	1000.6	991.9	986.7	986.7	986.1	980.3	978.0	976.8	977.3	980.3
37.5°	914.2	907.3	901.5	898.0	900.8	897.4	896.8	896.8	900.3	898.0	902.6
40°	819.7	819.2	816.8	818.0	818.5	814.5	815.7	816.2	818.5	823.2	823.8
42.5°	737.4	736.8	736.8	736.8	735.7	733.4	735.7	739.7	739.2	742.6	745.5
45°	658.0	656.9	659.2	657.4	660.9	662.0	660.3	661.5	665.0	667.3	671.9
47.5°	585.5	585.5	586.1	587.2	583.7	586.7	587.8	590.2	591.8	593.0	595.3
50°	518.3	518.3	517.1	517.1	517.1	518.8	516.5	519.4	520.0	524.6	527.6
52.5°	456.2	453.4	455.1	453.9	451.6	450.4	451.6	452.2	455.7	456.8	460.3
55°	397.1	397.1	392.5	391.3	393.1	392.5	391.9	391.9	393.6	395.4	398.3
57.5°	344.9	341.4	338.0	337.4	335.7	336.3	336.3	335.7	334.5	335.1	335.7
60°	295.6	293.3	288.1	288.1	287.5	287.0	284.0	283.5	280.5	281.2	278.8
62.5°	250.4	249.2	242.3	240.0	240.0	238.3	235.3	234.8	230.7	230.7	228.4
65°	209.8	206.3	202.3	198.2	198.2	195.9	194.2	189.0	186.1	184.3	180.8
67.5°	172.7	167.6	163.5	160.0	157.7	157.1	153.0	149.5	144.9	142.1	136.8
70°	136.8	132.8	128.7	125.2	122.9	120.6	116.6	111.3	107.8	102.6	99.2
72.5°	103.2	99.7	96.2	91.6	88.7	86.9	82.9	78.3	72.5	69.0	64.4
75°	74.2	70.2	65.5	61.4	59.7	58.0	53.3	49.8	45.8	41.7	37.1
77.5°	48.2	43.5	40.0	35.4	34.8	33.6	29.0	25.5	22.7	20.3	17.4
80°	25.5	23.2	20.3	17.4	16.2	14.5	12.2	10.4	8.7	7.0	5.8
82.5°	11.1	9.3	7.6	6.4	5.8	5.3	4.1	3.5	2.9	2.9	2.3
85°	2.9	2.3	2.3	1.8	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°	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1543.8	1544.3	1544.9	1544.9	1545.5	1546.1	1546.1	1546.6	1547.3	1547.8	1547.8
5°	1540.8	1540.8	1540.8	1541.5	1541.5	1541.5	1541.5	1542.6	1542.6	1543.2	1543.8
7.5°	1535.0	1535.0	1535.0	1535.0	1534.5	1535.0	1534.5	1534.5	1535.7	1536.2	1536.8
10°	1525.8	1525.2	1525.2	1524.6	1524.6	1524.6	1525.2	1525.8	1526.4	1526.9	1528.7
12.5°	1511.3	1510.7	1510.7	1510.2	1510.2	1510.7	1511.3	1512.5	1514.8	1516.0	1518.3
15°	1488.1	1487.5	1488.1	1488.7	1489.8	1491.6	1493.3	1495.1	1498.6	1501.4	1504.4
17.5°	1454.5	1455.1	1455.7	1456.8	1458.5	1460.9	1465.5	1470.1	1474.2	1478.9	1483.5
20°	1408.1	1410.5	1411.0	1415.1	1416.3	1421.4	1426.7	1433.7	1440.0	1445.8	1452.2
22.5°	1352.5	1354.2	1356.5	1361.2	1364.1	1371.1	1377.4	1385.5	1392.5	1400.0	1409.3
25°	1289.3	1289.8	1296.8	1296.8	1303.7	1309.5	1317.1	1325.8	1336.3	1346.1	1352.5
27.5°	1217.4	1220.3	1225.5	1227.8	1233.0	1242.3	1248.7	1259.1	1269.6	1278.2	1285.2
30°	1142.1	1144.4	1153.0	1154.2	1158.3	1166.4	1175.0	1184.9	1193.1	1202.9	1209.3
32.5°	1062.6	1069.0	1074.2	1078.3	1079.5	1091.6	1096.2	1103.2	1112.4	1122.3	1128.7
35°	985.6	988.4	996.0	998.3	1001.8	1008.7	1018.0	1023.8	1028.4	1034.8	1042.4
37.5°	903.8	912.4	914.2	921.2	922.3	928.7	933.3	940.3	946.0	951.8	953.0
40°	827.8	830.7	837.1	838.9	840.0	848.7	854.5	856.3	859.1	864.4	871.3
42.5°	750.8	753.6	760.6	758.9	764.0	768.1	771.0	778.0	780.9	782.6	782.6
45°	674.8	675.9	680.6	682.9	685.8	688.2	693.3	696.8	698.0	703.2	704.9
47.5°	602.3	603.4	606.9	611.0	609.9	612.7	618.5	620.3	620.8	624.3	626.1
50°	531.0	533.9	538.5	537.4	540.8	542.6	547.8	549.0	549.0	549.6	550.1
52.5°	464.3	466.6	467.8	469.0	470.8	473.6	475.9	474.8	477.1	479.4	477.7
55°	398.3	400.0	402.9	404.0	404.0	404.7	403.5	408.7	406.4	405.8	406.4
57.5°	338.0	335.7	335.1	338.0	339.1	338.6	336.8	339.1	339.1	338.0	336.3
60°	279.4	277.7	277.1	277.7	275.4	273.6	274.7	273.6	270.7	269.6	270.1
62.5°	226.1	224.4	219.7	219.7	218.6	217.9	213.3	213.9	211.6	208.1	209.3
65°	176.8	172.2	169.9	169.3	165.2	161.8	160.6	156.5	153.0	152.5	153.0
67.5°	132.8	127.5	123.5	121.7	119.4	116.6	112.4	109.0	110.1	109.6	111.9
70°	92.2	88.7	84.6	81.8	82.9	79.5	77.1	77.1	77.7	78.3	79.5
72.5°	61.4	56.8	55.1	53.3	52.2	49.8	51.0	51.0	50.5	51.0	49.8
75°	34.8	32.5	30.8	30.1	29.0	29.0	29.0	29.0	28.4	27.8	27.8
77.5°	15.7	14.5	13.9	13.4	13.4	13.4	12.8	12.2	12.2	12.2	11.6
80°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
82.5°	2.3	2.3	2.9	2.9	2.9	2.3	2.9	2.9	2.3	2.3	2.9
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: P858044

CATALOG NUMBER: LX4C40D010 EX4C409850 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1548.4	1549.0	1549.0	1549.0	1549.6	1549.6	1549.6	1549.6
5°	1544.3	1544.9	1544.9	1544.9	1545.5	1545.5	1545.5	1545.5
7.5°	1537.4	1538.0	1538.0	1538.5	1538.5	1539.1	1539.1	1539.7
10°	1529.2	1530.4	1531.0	1531.6	1532.2	1532.7	1532.7	1533.4
12.5°	1520.6	1521.8	1522.3	1523.5	1524.6	1525.2	1525.8	1526.4
15°	1507.8	1510.2	1511.3	1511.9	1514.2	1515.3	1516.0	1516.5
17.5°	1487.5	1492.2	1493.9	1495.1	1497.4	1499.7	1501.4	1502.0
20°	1458.5	1463.8	1466.1	1469.0	1472.4	1475.4	1476.5	1477.7
22.5°	1418.0	1423.8	1427.2	1430.7	1433.7	1436.5	1441.1	1439.4
25°	1360.0	1369.9	1373.9	1375.7	1382.0	1385.5	1387.8	1385.5
27.5°	1295.1	1300.9	1304.4	1308.4	1313.1	1316.6	1317.7	1321.2
30°	1216.8	1226.7	1226.1	1230.2	1236.0	1239.4	1240.6	1243.4
32.5°	1135.6	1140.3	1143.7	1143.2	1145.5	1151.9	1149.5	1154.8
35°	1049.3	1049.8	1055.6	1055.1	1059.7	1059.7	1059.7	1063.2
37.5°	957.1	964.1	961.1	968.1	965.8	967.5	967.5	968.7
40°	873.0	875.3	875.3	877.7	879.4	877.7	878.8	881.8
42.5°	786.1	788.4	789.0	787.9	789.5	794.8	790.7	794.2
45°	704.9	706.7	709.0	707.2	710.2	708.4	710.2	709.0
47.5°	628.4	627.8	627.3	631.9	627.8	628.4	630.7	626.6
50°	550.1	553.6	551.3	553.1	554.2	554.2	552.4	552.4
52.5°	480.6	480.0	478.2	480.0	478.9	479.4	480.6	479.4
55°	408.7	411.0	409.8	409.3	409.8	409.8	413.3	408.7
57.5°	338.0	336.8	338.6	342.6	338.6	341.4	343.2	343.8
60°	270.7	270.7	274.2	272.4	275.9	278.8	281.2	280.0
62.5°	206.3	209.3	210.5	211.0	214.5	216.8	216.8	216.2
65°	153.0	157.1	157.1	159.4	160.6	160.6	161.8	164.1
67.5°	113.1	113.1	113.6	114.8	114.2	114.2	115.4	115.9
70°	78.8	77.7	79.5	78.8	78.8	78.3	78.8	78.8
72.5°	49.8	49.8	50.5	49.8	48.7	49.3	49.3	50.5
75°	26.7	27.8	26.7	26.7	27.3	26.1	26.7	27.3
77.5°	11.1	11.1	11.1	11.1	11.1	10.4	10.4	10.4
80°	5.3	5.3	5.3	5.3	5.3	5.3	4.6	4.6
82.5°	2.3	2.9	2.3	2.9	2.3	2.3	2.3	2.3
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)