

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: P858018

Luminaire Tested: **LX4C40D010 EX4C409835 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858018
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 EX4C409835 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

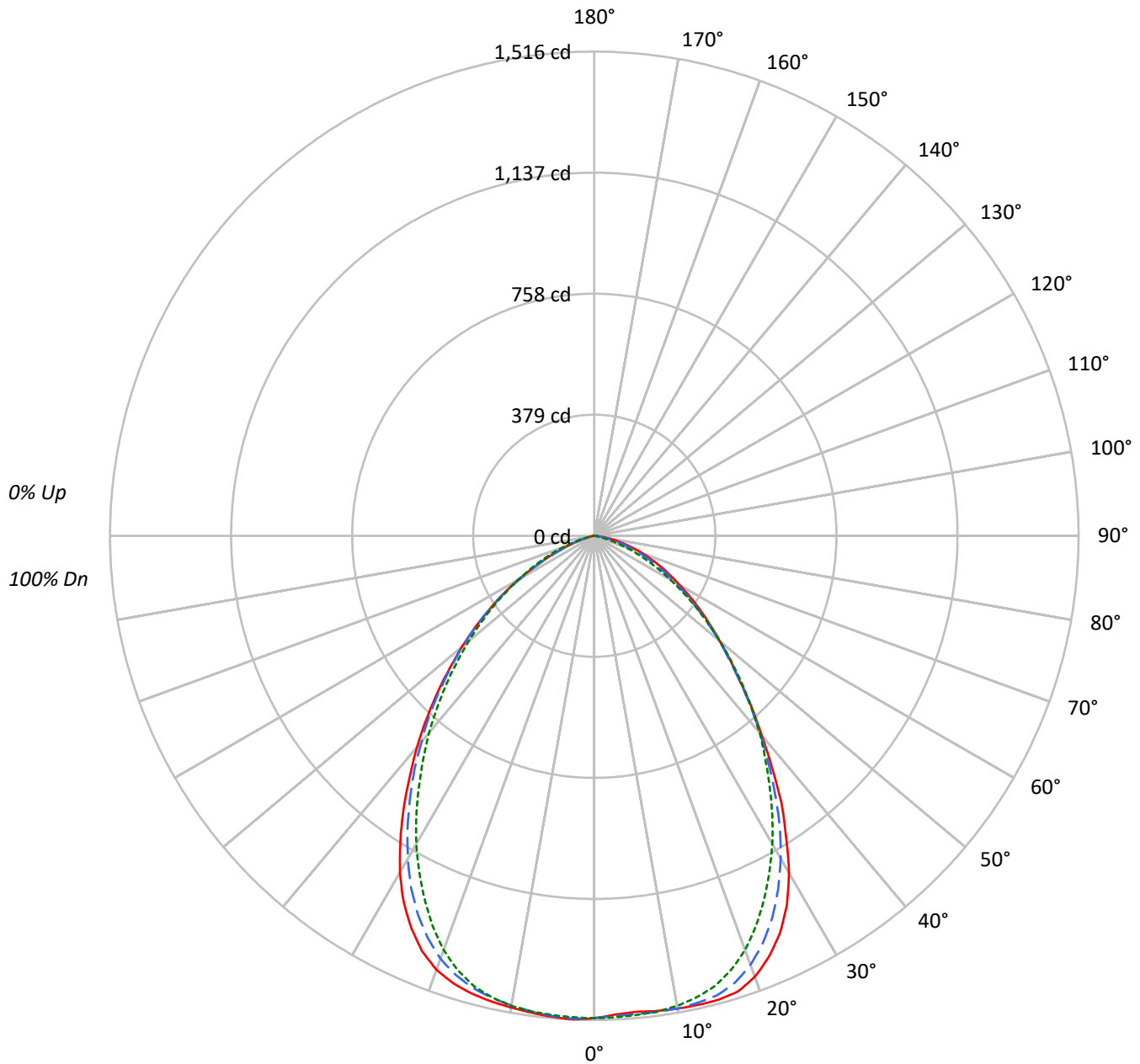
Lumens per Lamp: N/A
Luminaire Lumens: 2895.5 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	185546	185546	185546
5°	184503	185761	186452
10°	187560	186424	187136
15°	191226	185592	188695
20°	192185	180405	188995
25°	186278	170350	183730
30°	172884	158088	172571
35°	153111	143407	155990
40°	130512	129149	138338
45°	112132	113418	120507
50°	97876	98105	103304
55°	86489	82827	85654
60°	75801	67594	67299
65°	67093	52413	46657
70°	57256	36064	27694
75°	46328	19367	12674
80°	31695	4811	3184
85°	9585	1692	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	5.0
10°-20°	415.5	14.4
20°-30°	600.4	20.7
30°-40°	620.7	21.4
40°-50°	512.9	17.7
50°-60°	353.9	12.2
60°-70°	185.3	6.4
70°-80°	58.3	2.0
80°-90°	5.0	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°	1159.4	40.0
0°-40°	1780.1	61.5
0°-60°	2646.9	91.4
0°-90°	2895.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2895.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1510	1510	1510	1510	1510	
5°	1496	1504	1506	1509	1512	143
15°	1504	1489	1459	1466	1484	424
25°	1374	1319	1257	1307	1355	627
35°	1021	987	956	1006	1040	634
45°	645	643	653	683	694	503
55°	404	391	387	398	400	363
65°	231	209	180	150	160	229
75°	98	77	41	28	27	105
85°	7	3	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°	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3
2.5°	1500.6	1501.2	1501.2	1502.3	1502.3	1502.3	1502.9	1502.9	1503.5	1504.0	1504.6
5°	1496.1	1496.1	1497.2	1497.8	1498.9	1499.5	1500.6	1501.2	1502.3	1502.9	1503.5
7.5°	1500.6	1500.6	1501.2	1501.8	1501.8	1502.3	1502.3	1502.9	1503.5	1504.0	1504.0
10°	1503.5	1503.5	1503.5	1503.5	1504.0	1504.0	1504.0	1503.5	1503.5	1503.5	1502.9
12.5°	1504.6	1504.6	1504.0	1503.5	1504.0	1503.5	1503.5	1501.8	1500.6	1499.5	1497.8
15°	1503.5	1503.5	1502.9	1502.3	1501.8	1500.6	1500.1	1497.2	1495.0	1491.5	1489.3
17.5°	1496.1	1495.0	1493.8	1492.7	1490.5	1488.8	1487.6	1482.5	1478.5	1472.9	1466.6
20°	1470.0	1468.9	1467.2	1464.3	1461.5	1459.2	1455.9	1448.5	1444.5	1436.0	1429.7
22.5°	1427.5	1426.3	1426.9	1421.8	1416.2	1412.7	1410.5	1404.2	1397.4	1386.7	1379.9
25°	1374.2	1370.8	1370.8	1362.8	1360.0	1357.7	1354.9	1347.5	1337.3	1327.6	1318.6
27.5°	1305.0	1300.4	1298.2	1297.0	1290.3	1285.1	1281.2	1275.5	1267.0	1258.5	1246.0
30°	1218.7	1218.2	1215.4	1210.3	1205.2	1202.9	1198.3	1188.7	1180.8	1174.5	1166.6
32.5°	1117.3	1116.7	1116.7	1116.7	1113.3	1112.7	1105.9	1100.8	1094.6	1084.9	1079.8
35°	1020.9	1020.2	1020.9	1012.3	1010.1	1008.4	1007.8	1004.4	995.9	991.3	986.8
37.5°	912.0	913.7	912.5	910.3	913.1	908.0	912.0	904.6	901.2	900.0	895.0
40°	813.8	818.4	813.8	814.4	817.3	812.1	812.1	811.0	808.7	807.6	806.5
42.5°	729.9	724.3	727.7	724.8	727.7	726.0	723.1	724.8	725.3	723.1	722.5
45°	645.4	646.5	647.7	646.0	646.0	644.3	648.8	646.0	646.0	646.5	642.6
47.5°	576.8	575.1	576.2	575.1	575.6	574.5	575.6	576.2	575.1	575.1	571.7
50°	512.1	511.0	515.0	511.6	511.6	511.0	511.6	510.4	508.7	508.7	509.9
52.5°	455.9	453.7	453.2	455.9	452.0	452.0	452.6	451.4	449.2	448.0	445.2
55°	403.8	403.2	403.8	401.6	400.4	400.4	397.5	396.5	395.8	393.0	391.3
57.5°	355.0	353.3	353.9	353.3	351.1	350.5	348.2	348.2	346.0	343.7	340.8
60°	308.5	308.5	310.2	307.9	306.2	305.2	304.0	302.8	298.9	294.9	291.5
62.5°	267.1	267.7	267.1	265.4	264.3	263.2	262.0	258.6	255.2	252.9	249.0
65°	230.8	230.2	228.6	227.4	224.6	224.6	222.3	220.6	216.6	213.2	209.3
67.5°	193.4	192.3	192.3	192.3	188.9	188.2	187.2	183.8	180.3	175.9	172.4
70°	159.4	160.5	158.8	157.1	155.4	154.8	153.1	149.7	145.7	141.3	138.4
72.5°	127.1	128.1	126.4	125.9	122.5	121.4	120.8	118.0	113.4	110.6	106.0
75°	97.6	98.1	97.0	95.9	93.5	93.0	90.2	87.9	85.1	80.5	76.6
77.5°	70.4	69.2	69.2	66.9	64.7	64.7	64.1	60.7	56.7	53.3	49.9
80°	44.8	44.2	42.5	41.4	39.7	39.1	38.5	35.8	32.9	30.6	28.4
82.5°	22.7	22.1	21.6	21.0	19.9	18.7	19.3	17.0	15.9	13.6	11.9
85°	6.8	7.4	7.4	6.8	6.2	6.2	6.2	5.7	4.5	4.0	3.4
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°	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3
2.5°	1505.2	1505.7	1506.3	1506.9	1506.9	1507.5	1508.0	1508.6	1509.2	1509.2	1509.7
5°	1504.0	1505.2	1505.2	1505.7	1505.7	1505.7	1506.3	1506.3	1506.3	1506.3	1506.9
7.5°	1504.6	1504.6	1504.6	1504.0	1504.0	1503.5	1503.5	1503.5	1502.3	1502.3	1502.3
10°	1501.8	1501.2	1500.6	1499.5	1498.9	1498.4	1497.2	1496.1	1495.0	1494.4	1493.3
12.5°	1496.1	1493.8	1491.5	1489.3	1488.1	1487.6	1485.3	1483.6	1481.9	1480.2	1479.1
15°	1484.8	1481.4	1477.3	1472.9	1471.7	1470.6	1466.6	1463.2	1460.9	1459.2	1456.4
17.5°	1462.1	1455.2	1450.8	1443.9	1441.1	1440.0	1433.7	1430.4	1426.3	1425.2	1423.0
20°	1421.8	1415.6	1407.1	1400.8	1397.4	1394.1	1388.9	1384.3	1379.9	1379.9	1377.0
22.5°	1371.3	1363.4	1352.6	1344.7	1344.1	1337.3	1332.8	1327.6	1325.9	1322.5	1322.5
25°	1307.8	1301.1	1289.1	1282.3	1278.8	1277.2	1269.8	1263.0	1259.6	1256.7	1259.1
27.5°	1237.5	1227.3	1218.2	1209.7	1206.9	1203.5	1196.6	1193.9	1187.6	1187.0	1186.5
30°	1156.9	1146.8	1137.7	1133.7	1128.1	1125.2	1120.1	1116.7	1114.4	1114.4	1113.3
32.5°	1072.4	1063.4	1058.9	1050.3	1047.5	1043.5	1040.1	1036.7	1037.9	1036.7	1037.3
35°	981.2	978.9	970.4	965.2	965.2	964.7	959.1	956.7	955.6	956.2	959.1
37.5°	894.3	887.6	881.9	878.5	881.3	877.9	877.4	877.4	880.8	878.5	883.0
40°	801.9	801.3	799.1	800.2	800.8	796.9	797.9	798.6	800.8	805.3	805.9
42.5°	721.4	720.8	720.8	720.8	719.7	717.4	719.7	723.6	723.1	726.5	729.4
45°	643.7	642.6	644.8	643.1	646.5	647.7	646.0	647.1	650.5	652.8	657.3
47.5°	572.8	572.8	573.4	574.5	571.1	573.9	575.1	577.3	579.0	580.2	582.5
50°	507.0	507.0	505.9	505.9	505.9	507.6	505.4	508.1	508.7	513.3	516.1
52.5°	446.3	443.5	445.2	444.1	441.8	440.7	441.8	442.4	445.8	446.9	450.3
55°	388.5	388.5	384.0	382.8	384.5	384.0	383.4	383.4	385.1	386.7	389.6
57.5°	337.4	334.0	330.7	330.0	328.3	329.0	329.0	328.3	327.3	327.8	328.3
60°	289.3	287.0	281.9	281.9	281.3	280.7	277.9	277.3	274.5	275.1	272.8
62.5°	245.0	243.9	237.0	234.8	234.8	233.1	230.2	229.7	225.7	225.7	223.5
65°	205.3	201.9	198.0	194.0	194.0	191.7	190.0	184.9	182.1	180.3	176.9
67.5°	169.0	163.9	159.9	156.5	154.3	153.7	149.7	146.3	141.8	138.9	133.9
70°	133.9	129.8	125.9	122.5	120.2	118.0	114.0	108.9	105.5	100.4	97.0
72.5°	100.9	97.6	94.2	89.6	86.8	85.1	81.1	76.6	70.9	67.5	63.0
75°	72.6	68.7	64.1	60.1	58.4	56.7	52.2	48.8	44.8	40.8	36.3
77.5°	47.1	42.5	39.1	34.6	34.1	32.9	28.4	25.0	22.1	19.9	17.0
80°	25.0	22.7	19.9	17.0	15.9	14.2	11.9	10.2	8.5	6.8	5.7
82.5°	10.8	9.1	7.4	6.2	5.7	5.1	4.0	3.4	2.9	2.9	2.2
85°	2.9	2.2	2.2	1.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5	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°	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3
2.5°	1510.3	1510.9	1511.4	1511.4	1511.9	1512.6	1512.6	1513.1	1513.6	1514.3	1514.3
5°	1507.5	1507.5	1507.5	1508.0	1508.0	1508.0	1508.0	1509.2	1509.2	1509.7	1510.3
7.5°	1501.8	1501.8	1501.8	1501.8	1501.2	1501.8	1501.2	1501.2	1502.3	1502.9	1503.5
10°	1492.7	1492.2	1492.2	1491.5	1491.5	1491.5	1492.2	1492.7	1493.3	1493.8	1495.5
12.5°	1478.5	1478.0	1478.0	1477.3	1477.3	1478.0	1478.5	1479.7	1481.9	1483.1	1485.3
15°	1455.9	1455.2	1455.9	1456.4	1457.6	1459.2	1460.9	1462.6	1466.0	1468.9	1471.7
17.5°	1423.0	1423.5	1424.1	1425.2	1426.9	1429.2	1433.7	1438.3	1442.2	1446.8	1451.3
20°	1377.6	1379.9	1380.4	1384.3	1385.5	1390.6	1395.8	1402.5	1408.8	1414.4	1420.6
22.5°	1323.2	1324.9	1327.1	1331.6	1334.5	1341.3	1347.5	1355.4	1362.2	1369.6	1378.7
25°	1261.3	1261.9	1268.7	1268.7	1275.5	1281.2	1288.6	1297.0	1307.2	1316.9	1323.2
27.5°	1191.0	1193.9	1198.9	1201.2	1206.3	1215.4	1221.6	1231.9	1242.0	1250.5	1257.4
30°	1117.3	1119.5	1128.1	1129.1	1133.1	1141.1	1149.5	1159.3	1167.2	1176.8	1183.1
32.5°	1039.6	1045.8	1050.9	1054.8	1056.0	1068.0	1072.4	1079.3	1088.4	1098.0	1104.2
35°	964.2	967.0	974.3	976.6	980.0	986.8	995.9	1001.6	1006.1	1012.3	1019.7
37.5°	884.2	892.6	894.3	901.2	902.4	908.5	913.1	919.9	925.5	931.2	932.4
40°	809.9	812.7	819.0	820.7	821.7	830.3	835.9	837.7	840.5	845.6	852.4
42.5°	734.4	737.3	744.1	742.4	747.5	751.5	754.3	761.1	764.0	765.6	765.6
45°	660.2	661.3	665.8	668.1	670.9	673.2	678.3	681.7	682.8	688.0	689.7
47.5°	589.3	590.4	593.8	597.7	596.7	599.4	605.1	606.8	607.4	610.8	612.5
50°	519.5	522.3	526.8	525.8	529.2	530.9	535.9	537.1	537.1	537.6	538.3
52.5°	454.3	456.6	457.6	458.8	460.5	463.3	465.6	464.5	466.7	469.1	467.4
55°	389.6	391.3	394.1	395.3	395.3	395.8	394.7	399.9	397.5	397.0	397.5
57.5°	330.7	328.3	327.8	330.7	331.8	331.2	329.5	331.8	331.8	330.7	329.0
60°	273.3	271.6	271.1	271.6	269.4	267.7	268.9	267.7	264.8	263.7	264.3
62.5°	221.2	219.5	214.9	214.9	213.8	213.2	208.7	209.3	207.0	203.6	204.7
65°	173.0	168.5	166.1	165.6	161.7	158.2	157.1	153.1	149.7	149.2	149.7
67.5°	129.8	124.8	120.8	119.1	116.8	114.0	110.0	106.7	107.7	107.2	109.4
70°	90.2	86.8	82.8	80.0	81.1	77.7	75.4	75.4	76.0	76.6	77.7
72.5°	60.1	55.6	53.9	52.2	51.0	48.8	49.9	49.9	49.3	49.9	48.8
75°	34.1	31.7	30.1	29.5	28.4	28.4	28.4	28.4	27.8	27.2	27.2
77.5°	15.3	14.2	13.6	13.0	13.0	13.0	12.5	11.9	11.9	11.9	11.3
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
82.5°	2.2	2.2	2.9	2.9	2.9	2.2	2.9	2.9	2.2	2.2	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°	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.5	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: P858018

CATALOG NUMBER: LX4C40D010 EX4C409835 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3
2.5°	1514.8	1515.4	1515.4	1515.4	1516.0	1516.0	1516.0	1516.0
5°	1510.9	1511.4	1511.4	1511.4	1511.9	1511.9	1511.9	1511.9
7.5°	1504.0	1504.6	1504.6	1505.2	1505.2	1505.7	1505.7	1506.3
10°	1496.1	1497.2	1497.8	1498.4	1498.9	1499.5	1499.5	1500.1
12.5°	1487.6	1488.8	1489.3	1490.5	1491.5	1492.2	1492.7	1493.3
15°	1475.1	1477.3	1478.5	1479.1	1481.4	1482.5	1483.1	1483.6
17.5°	1455.2	1459.8	1461.5	1462.6	1465.0	1467.2	1468.9	1469.4
20°	1426.9	1432.0	1434.3	1437.1	1440.5	1443.4	1444.5	1445.6
22.5°	1387.2	1392.9	1396.3	1399.7	1402.5	1405.4	1409.9	1408.2
25°	1330.5	1340.1	1344.1	1345.8	1352.1	1355.4	1357.7	1355.4
27.5°	1267.0	1272.7	1276.1	1280.0	1284.6	1287.9	1289.1	1292.5
30°	1190.4	1200.0	1199.5	1203.5	1209.1	1212.5	1213.7	1216.5
32.5°	1111.0	1115.6	1119.0	1118.4	1120.7	1126.9	1124.7	1129.7
35°	1026.5	1027.1	1032.7	1032.2	1036.7	1036.7	1036.7	1040.1
37.5°	936.3	943.1	940.3	947.1	944.9	946.6	946.6	947.7
40°	854.1	856.3	856.3	858.7	860.4	858.7	859.8	862.6
42.5°	769.0	771.3	771.9	770.7	772.4	777.5	773.6	777.0
45°	689.7	691.4	693.6	691.9	694.8	693.1	694.8	693.6
47.5°	614.8	614.2	613.6	618.2	614.2	614.8	617.1	613.1
50°	538.3	541.6	539.3	541.0	542.2	542.2	540.5	540.5
52.5°	470.1	469.6	467.9	469.6	468.4	469.1	470.1	469.1
55°	399.9	402.1	400.9	400.4	400.9	400.9	404.4	399.9
57.5°	330.7	329.5	331.2	335.2	331.2	334.0	335.7	336.3
60°	264.8	264.8	268.2	266.5	269.9	272.8	275.1	273.9
62.5°	201.9	204.7	205.9	206.4	209.8	212.1	212.1	211.5
65°	149.7	153.7	153.7	156.0	157.1	157.1	158.2	160.5
67.5°	110.6	110.6	111.2	112.3	111.7	111.7	112.9	113.4
70°	77.1	76.0	77.7	77.1	77.1	76.6	77.1	77.1
72.5°	48.8	48.8	49.3	48.8	47.6	48.2	48.2	49.3
75°	26.1	27.2	26.1	26.1	26.7	25.5	26.1	26.7
77.5°	10.8	10.8	10.8	10.8	10.8	10.2	10.2	10.2
80°	5.1	5.1	5.1	5.1	5.1	5.1	4.5	4.5
82.5°	2.2	2.9	2.2	2.9	2.2	2.2	2.2	2.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.5
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)