

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: P858031

Luminaire Tested: **LX4C40D010 EX4C409840 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858031
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 EX4C409840 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

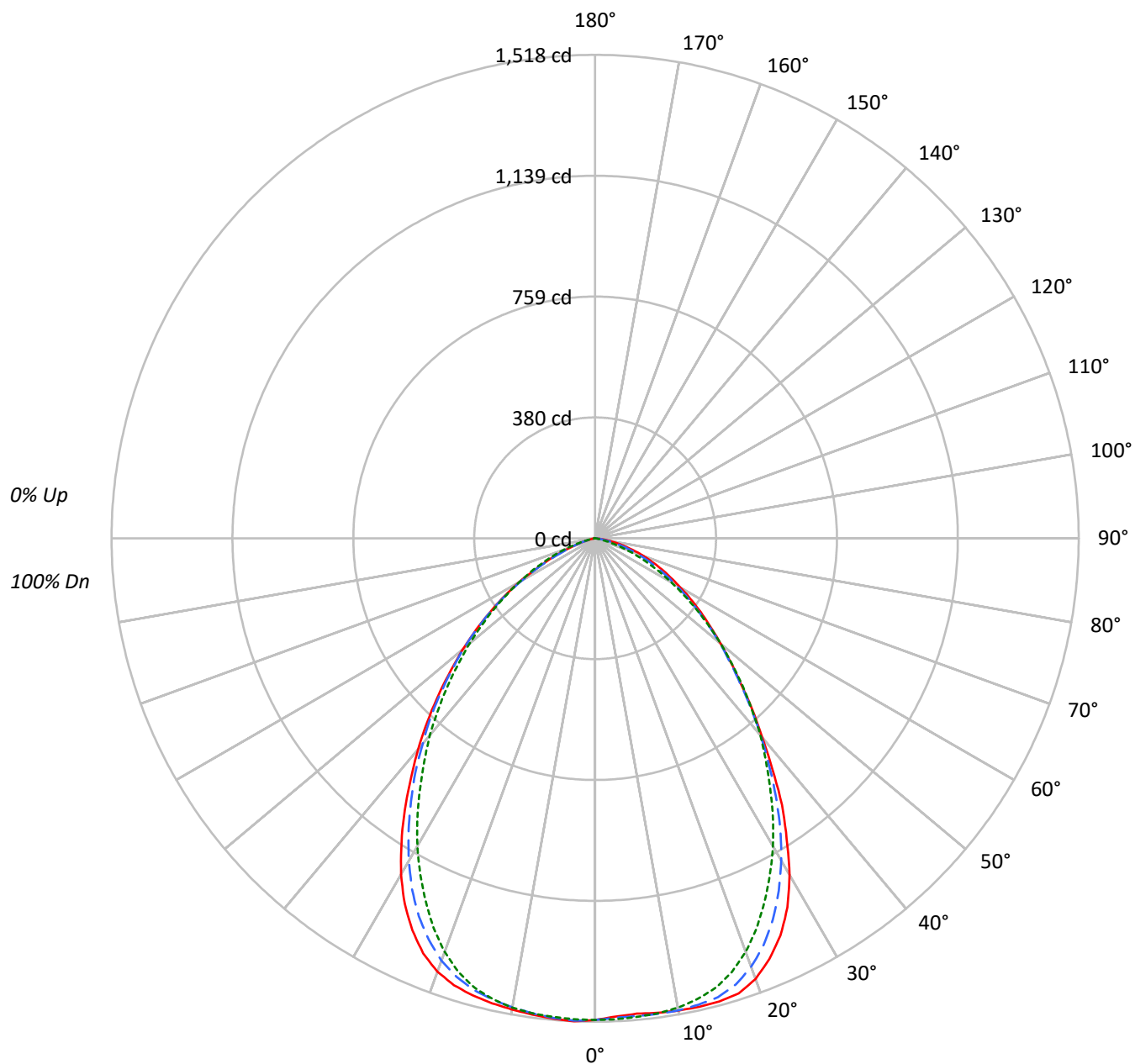
Lumens per Lamp: N/A
Luminaire Lumens: 2899.9 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	109	105	102	99		101	99	96			97	95	93			94
2	103	96	91	86	101	95	89	85		91	87	83			88	84	81			85
3	95	87	80	74	93	85	79	74		82	77	72			80	75	71			77
4	88	78	71	65	86	77	70	65		75	69	64			72	67	63			70
5	82	71	63	57	80	70	63	57		68	61	57			66	60	56			64
6	76	65	57	51	75	64	56	51		62	56	51			61	55	50			59
7	71	59	51	46	70	59	51	46		57	50	46			56	50	45			54
8	67	55	47	42	65	54	47	42		53	46	41			52	46	41			50
9	63	51	43	38	61	50	43	38		49	42	38			48	42	38			47
10	59	47	40	35	58	46	39	35		45	39	35			45	39	35			44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	185828	185828	185828
5°	184787	186045	186748
10°	187847	186711	187422
15°	191519	185884	188988
20°	192485	180667	189282
25°	186563	170622	184014
30°	173153	158329	172841
35°	153336	143617	156230
40°	130721	129358	138547
45°	112306	113575	120698
50°	98029	98258	103457
55°	86618	82977	85782
60°	75923	67692	67422
65°	67180	52529	46744
70°	57328	36100	27730
75°	46375	19414	12674
80°	31766	4811	3184
85°	9585	1692	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	5.0
10°-20°	416.2	14.4
20°-30°	601.3	20.7
30°-40°	621.6	21.4
40°-50°	513.6	17.7
50°-60°	354.5	12.2
60°-70°	185.6	6.4
70°-80°	58.4	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°	1161.2	40.0
0°-40°	1782.9	61.5
0°-60°	2651.0	91.4
0°-90°	2899.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2899.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1513	1513	1513	1513	1513	
5°	1498	1506	1509	1512	1514	143
15°	1506	1492	1462	1468	1486	425
25°	1376	1321	1259	1309	1358	628
35°	1022	988	958	1008	1042	635
45°	646	644	654	684	695	504
55°	404	392	387	398	400	363
65°	231	210	181	150	161	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°	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6
2.5°	1502.9	1503.5	1503.5	1504.6	1504.6	1504.6	1505.3	1505.3	1505.8	1506.3	1507.0
5°	1498.4	1498.4	1499.6	1500.1	1501.2	1501.8	1502.9	1503.5	1504.6	1505.3	1505.8
7.5°	1502.9	1502.9	1503.5	1504.1	1504.1	1504.6	1504.6	1505.3	1505.8	1506.3	1506.3
10°	1505.8	1505.8	1505.8	1505.8	1506.3	1506.3	1506.3	1505.8	1505.8	1505.8	1505.3
12.5°	1507.0	1507.0	1506.3	1505.8	1506.3	1505.8	1505.8	1504.1	1502.9	1501.8	1500.1
15°	1505.8	1505.8	1505.3	1504.6	1504.1	1502.9	1502.4	1499.6	1497.2	1493.8	1491.6
17.5°	1498.4	1497.2	1496.2	1495.0	1492.7	1491.0	1489.9	1484.8	1480.8	1475.1	1468.9
20°	1472.3	1471.1	1469.4	1466.6	1463.8	1461.5	1458.1	1450.7	1446.8	1438.2	1432.0
22.5°	1429.6	1428.6	1429.1	1424.0	1418.3	1414.9	1412.6	1406.4	1399.6	1388.8	1381.9
25°	1376.3	1372.8	1372.8	1364.9	1362.0	1359.8	1357.0	1349.6	1339.4	1329.7	1320.6
27.5°	1307.0	1302.5	1300.2	1299.0	1292.2	1287.1	1283.1	1277.4	1268.9	1260.4	1247.9
30°	1220.6	1220.1	1217.2	1212.1	1207.1	1204.7	1200.2	1190.6	1182.6	1176.4	1168.4
32.5°	1119.0	1118.4	1118.4	1118.4	1115.0	1114.4	1107.6	1102.5	1096.2	1086.6	1081.5
35°	1022.4	1021.8	1022.4	1013.9	1011.6	1009.9	1009.4	1006.0	997.4	992.9	988.3
37.5°	913.3	915.1	913.9	911.6	914.5	909.4	913.3	906.0	902.5	901.5	896.3
40°	815.1	819.6	815.1	815.7	818.5	813.4	813.4	812.3	810.0	808.8	807.7
42.5°	731.0	725.3	728.7	725.9	728.7	727.0	724.2	725.9	726.5	724.2	723.6
45°	646.4	647.5	648.7	647.0	647.0	645.3	649.8	647.0	647.0	647.5	643.6
47.5°	577.7	576.0	577.1	576.0	576.5	575.4	576.5	577.1	576.0	576.0	572.6
50°	512.9	511.8	515.8	512.3	512.3	511.8	512.3	511.2	509.5	509.5	510.6
52.5°	456.7	454.4	453.8	456.7	452.7	452.7	453.3	452.1	449.9	448.7	445.9
55°	404.4	403.9	404.4	402.2	401.0	401.0	398.2	397.0	396.5	393.6	391.9
57.5°	355.5	353.8	354.5	353.8	351.6	351.0	348.8	348.8	346.4	344.2	341.4
60°	309.0	309.0	310.7	308.5	306.8	305.6	304.4	303.3	299.4	295.3	292.0
62.5°	267.5	268.1	267.5	265.8	264.7	263.6	262.4	259.1	255.6	253.3	249.3
65°	231.1	230.6	228.9	227.8	224.9	224.9	222.7	221.0	217.0	213.6	209.6
67.5°	193.7	192.5	192.5	192.5	189.1	188.6	187.4	184.1	180.7	176.1	172.6
70°	159.6	160.8	159.1	157.3	155.6	155.1	153.4	150.0	146.0	141.4	138.6
72.5°	127.3	128.4	126.6	126.1	122.7	121.5	121.0	118.2	113.6	110.8	106.2
75°	97.7	98.3	97.1	96.0	93.7	93.2	90.3	88.0	85.2	80.6	76.7
77.5°	70.4	69.3	69.3	67.1	64.7	64.7	64.2	60.8	56.8	53.4	50.0
80°	44.9	44.3	42.6	41.5	39.8	39.2	38.6	35.8	32.9	30.7	28.4
82.5°	22.7	22.1	21.6	21.0	19.9	18.7	19.4	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°	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6
2.5°	1507.5	1508.0	1508.6	1509.2	1509.2	1509.8	1510.3	1510.9	1511.5	1511.5	1512.0
5°	1506.3	1507.5	1507.5	1508.0	1508.0	1508.0	1508.6	1508.6	1508.6	1508.6	1509.2
7.5°	1507.0	1507.0	1507.0	1506.3	1506.3	1505.8	1505.8	1505.8	1504.6	1504.6	1504.6
10°	1504.1	1503.5	1502.9	1501.8	1501.2	1500.7	1499.6	1498.4	1497.2	1496.7	1495.5
12.5°	1498.4	1496.2	1493.8	1491.6	1490.5	1489.9	1487.6	1485.9	1484.2	1482.5	1481.4
15°	1487.1	1483.7	1479.7	1475.1	1474.0	1472.9	1468.9	1465.5	1463.2	1461.5	1458.6
17.5°	1464.3	1457.6	1453.0	1446.1	1443.3	1442.2	1435.9	1432.5	1428.6	1427.4	1425.1
20°	1424.0	1417.8	1409.2	1403.0	1399.6	1396.2	1391.0	1386.5	1381.9	1381.9	1379.2
22.5°	1373.5	1365.5	1354.7	1346.7	1346.2	1339.4	1334.8	1329.7	1328.0	1324.6	1324.6
25°	1309.8	1303.0	1291.1	1284.3	1280.9	1279.1	1271.8	1264.9	1261.5	1258.7	1261.0
27.5°	1239.4	1229.2	1220.1	1211.5	1208.8	1205.3	1198.5	1195.6	1189.4	1188.9	1188.2
30°	1158.7	1148.5	1139.5	1135.5	1129.7	1126.9	1121.8	1118.4	1116.1	1116.1	1115.0
32.5°	1074.1	1065.0	1060.5	1052.0	1049.1	1045.1	1041.7	1038.3	1039.4	1038.3	1038.9
35°	982.6	980.4	971.8	966.7	966.7	966.2	960.5	958.3	957.1	957.6	960.5
37.5°	895.8	889.0	883.3	879.9	882.6	879.3	878.7	878.7	882.1	879.9	884.4
40°	803.2	802.6	800.3	801.5	802.0	798.0	799.2	799.7	802.0	806.6	807.1
42.5°	722.5	722.0	722.0	722.0	720.8	718.6	720.8	724.8	724.2	727.7	730.4
45°	644.7	643.6	645.8	644.1	647.5	648.7	647.0	648.1	651.5	653.7	658.3
47.5°	573.7	573.7	574.3	575.4	572.0	574.8	576.0	578.2	579.9	581.1	583.4
50°	507.8	507.8	506.7	506.7	506.7	508.4	506.1	508.9	509.5	514.1	516.9
52.5°	447.0	444.2	445.9	444.7	442.5	441.3	442.5	443.0	446.5	447.6	451.0
55°	389.1	389.1	384.5	383.4	385.1	384.5	384.0	384.0	385.7	387.4	390.2
57.5°	338.0	334.6	331.2	330.6	328.9	329.4	329.4	328.9	327.7	328.3	328.9
60°	289.7	287.4	282.3	282.3	281.7	281.2	278.3	277.8	274.9	275.5	273.2
62.5°	245.4	244.2	237.5	235.2	235.2	233.5	230.6	230.1	226.1	226.1	223.8
65°	205.6	202.2	198.2	194.2	194.2	192.0	190.3	185.2	182.4	180.7	177.2
67.5°	169.3	164.2	160.2	156.8	154.5	153.9	150.0	146.5	142.0	139.2	134.0
70°	134.0	130.1	126.1	122.7	120.4	118.2	114.1	109.1	105.7	100.5	97.1
72.5°	101.1	97.7	94.3	89.7	86.9	85.2	81.2	76.7	71.0	67.6	63.0
75°	72.7	68.8	64.2	60.2	58.5	56.8	52.3	48.9	44.9	40.9	36.4
77.5°	47.2	42.6	39.2	34.7	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	10.3	8.6	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°	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6
2.5°	1512.6	1513.2	1513.7	1513.7	1514.3	1514.9	1514.9	1515.4	1516.1	1516.6	1516.6
5°	1509.8	1509.8	1509.8	1510.3	1510.3	1510.3	1510.3	1511.5	1511.5	1512.0	1512.6
7.5°	1504.1	1504.1	1504.1	1504.1	1503.5	1504.1	1503.5	1503.5	1504.6	1505.3	1505.8
10°	1495.0	1494.5	1494.5	1493.8	1493.8	1493.8	1494.5	1495.0	1495.5	1496.2	1497.9
12.5°	1480.8	1480.2	1480.2	1479.7	1479.7	1480.2	1480.8	1481.9	1484.2	1485.4	1487.6
15°	1458.1	1457.6	1458.1	1458.6	1459.8	1461.5	1463.2	1464.9	1468.3	1471.1	1474.0
17.5°	1425.1	1425.7	1426.3	1427.4	1429.1	1431.4	1435.9	1440.4	1444.4	1449.0	1453.5
20°	1379.7	1381.9	1382.6	1386.5	1387.6	1392.7	1397.9	1404.7	1410.9	1416.6	1422.9
22.5°	1325.1	1326.9	1329.1	1333.7	1336.5	1343.3	1349.6	1357.5	1364.4	1371.8	1380.9
25°	1263.2	1263.8	1270.6	1270.6	1277.4	1283.1	1290.5	1299.0	1309.3	1318.9	1325.1
27.5°	1192.8	1195.6	1200.7	1203.0	1208.1	1217.2	1223.5	1233.7	1244.0	1252.5	1259.3
30°	1119.0	1121.3	1129.7	1130.9	1134.9	1142.9	1151.3	1161.0	1169.0	1178.6	1184.9
32.5°	1041.2	1047.4	1052.5	1056.5	1057.6	1069.6	1074.1	1080.9	1090.0	1099.7	1105.9
35°	965.6	968.4	975.8	978.2	981.5	988.3	997.4	1003.1	1007.7	1013.9	1021.3
37.5°	885.5	894.1	895.8	902.5	903.7	909.9	914.5	921.3	927.0	932.7	933.8
40°	811.1	814.0	820.2	821.9	823.1	831.5	837.3	839.0	841.8	846.9	853.8
42.5°	735.6	738.5	745.2	743.5	748.6	752.6	755.5	762.3	765.1	766.8	766.8
45°	661.1	662.3	666.8	669.1	671.9	674.2	679.3	682.7	683.9	689.0	690.7
47.5°	590.2	591.3	594.7	598.7	597.6	600.4	606.0	607.8	608.3	611.7	613.4
50°	520.3	523.1	527.6	526.6	530.0	531.7	536.7	537.9	537.9	538.4	539.1
52.5°	455.0	457.3	458.4	459.5	461.2	464.1	466.3	465.2	467.5	469.8	468.1
55°	390.2	391.9	394.8	395.9	395.9	396.5	395.3	400.5	398.2	397.6	398.2
57.5°	331.2	328.9	328.3	331.2	332.3	331.7	330.0	332.3	332.3	331.2	329.4
60°	273.8	272.1	271.5	272.1	269.8	268.1	269.2	268.1	265.3	264.1	264.7
62.5°	221.5	219.8	215.3	215.3	214.1	213.6	209.0	209.6	207.3	203.9	205.0
65°	173.3	168.7	166.4	165.9	161.9	158.5	157.3	153.4	150.0	149.4	150.0
67.5°	130.1	124.9	121.0	119.3	117.0	114.1	110.2	106.7	107.9	107.4	109.6
70°	90.3	86.9	82.9	80.1	81.2	77.8	75.5	75.5	76.2	76.7	77.8
72.5°	60.2	55.6	54.0	52.3	51.1	48.9	50.0	50.0	49.4	50.0	48.9
75°	34.1	31.8	30.1	29.5	28.4	28.4	28.4	28.4	27.8	27.3	27.3
77.5°	15.3	14.2	13.6	13.1	13.1	13.1	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: P858031

CATALOG NUMBER: LX4C40D010 EX4C409840 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6	1512.6
2.5°	1517.1	1517.7	1517.7	1517.7	1518.3	1518.3	1518.3	1518.3
5°	1513.2	1513.7	1513.7	1513.7	1514.3	1514.3	1514.3	1514.3
7.5°	1506.3	1507.0	1507.0	1507.5	1507.5	1508.0	1508.0	1508.6
10°	1498.4	1499.6	1500.1	1500.7	1501.2	1501.8	1501.8	1502.4
12.5°	1489.9	1491.0	1491.6	1492.7	1493.8	1494.5	1495.0	1495.5
15°	1477.3	1479.7	1480.8	1481.4	1483.7	1484.8	1485.4	1485.9
17.5°	1457.6	1462.0	1463.8	1464.9	1467.2	1469.4	1471.1	1471.7
20°	1429.1	1434.2	1436.5	1439.4	1442.7	1445.6	1446.8	1447.8
22.5°	1389.3	1395.0	1398.4	1401.8	1404.7	1407.5	1412.1	1410.4
25°	1332.5	1342.2	1346.2	1347.9	1354.1	1357.5	1359.8	1357.5
27.5°	1268.9	1274.6	1278.0	1282.0	1286.5	1289.9	1291.1	1294.5
30°	1192.3	1201.9	1201.4	1205.3	1211.0	1214.4	1215.5	1218.4
32.5°	1112.7	1117.3	1120.7	1120.1	1122.3	1128.6	1126.4	1131.4
35°	1028.1	1028.6	1034.3	1033.8	1038.3	1038.3	1038.3	1041.7
37.5°	937.8	944.6	941.8	948.5	946.3	948.0	948.0	949.2
40°	855.4	857.7	857.7	860.0	861.7	860.0	861.1	863.9
42.5°	770.2	772.5	773.1	771.9	773.6	778.8	774.7	778.1
45°	690.7	692.4	694.7	693.0	695.8	694.1	695.8	694.7
47.5°	615.7	615.1	614.6	619.1	615.1	615.7	618.0	614.1
50°	539.1	542.4	540.2	541.9	543.0	543.0	541.3	541.3
52.5°	470.8	470.3	468.6	470.3	469.1	469.8	470.8	469.8
55°	400.5	402.7	401.6	401.0	401.6	401.6	405.0	400.5
57.5°	331.2	330.0	331.7	335.7	331.7	334.6	336.3	336.8
60°	265.3	265.3	268.7	267.0	270.4	273.2	275.5	274.4
62.5°	202.2	205.0	206.2	206.8	210.2	212.4	212.4	211.9
65°	150.0	153.9	153.9	156.2	157.3	157.3	158.5	160.8
67.5°	110.8	110.8	111.3	112.4	111.9	111.9	113.1	113.6
70°	77.2	76.2	77.8	77.2	77.2	76.7	77.2	77.2
72.5°	48.9	48.9	49.4	48.9	47.7	48.2	48.2	49.4
75°	26.1	27.3	26.1	26.1	26.7	25.6	26.1	26.7
77.5°	10.8	10.8	10.8	10.8	10.8	10.3	10.3	10.3
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)