

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: P857650

Luminaire Tested: **LX4C30D010 EX4C309835 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C30D010 EX4C309835 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

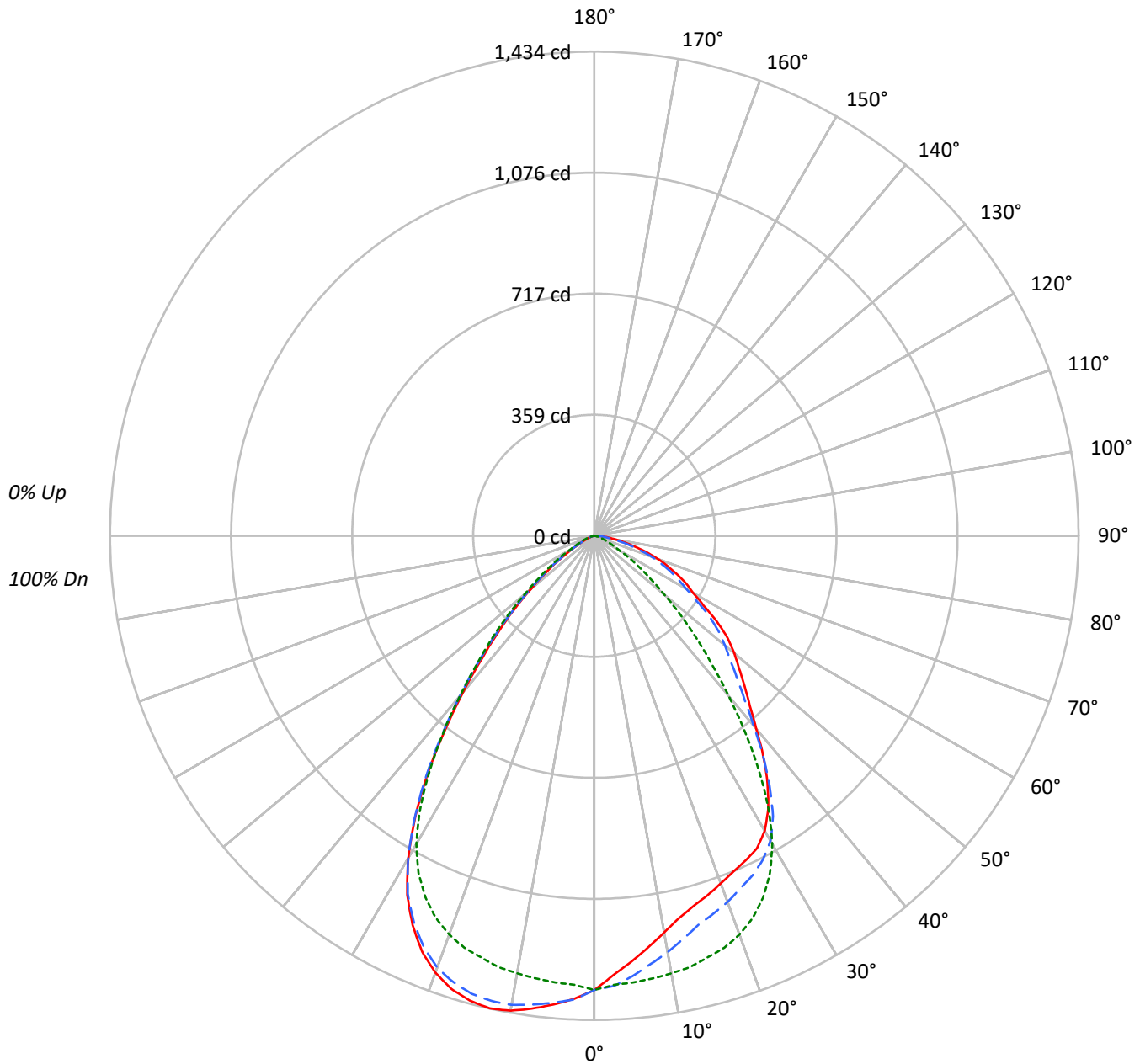
Lumens per Lamp: N/A
Luminaire Lumens: 2357.8 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70		
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46		
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	165250	165250	165250
5°	156040	163736	171863
10°	148763	164119	178166
15°	144396	164466	181204
20°	143210	164285	179922
25°	143795	160238	172452
30°	143107	149505	156385
35°	134139	127645	128935
40°	119527	98967	96754
45°	109318	73770	69253
50°	103361	51700	46711
55°	95035	34891	29322
60°	83049	20443	16168
65°	78633	13081	9070
70°	71624	9339	5604
75°	59239	6550	4130
80°	46553	3750	2476
85°	41583	2537	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	5.4
10°-20°	364.6	15.5
20°-30°	540.5	22.9
30°-40°	541.2	23.0
40°-50°	378.2	16.0
50°-60°	225.1	9.5
60°-70°	117.5	5.0
70°-80°	52.2	2.2
80°-90°	11.4	0.5
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°	1032.1	43.8
0°-40°	1573.4	66.7
0°-60°	2176.7	92.3
0°-90°	2357.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1345	1345	1345	1345	1345	
5°	1265	1309	1328	1388	1394	119
15°	1135	1192	1293	1404	1425	321
25°	1061	1109	1182	1264	1272	489
35°	894	905	851	867	860	555
45°	629	598	425	411	399	488
55°	444	416	163	142	137	394
65°	270	248	45	33	31	268
75°	125	109	14	9	9	135
85°	30	23	2	2	0	33
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°	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1301.8	1317.4	1301.8	1306.9	1327.7	1308.6	1319.1	1319.1	1313.9	1326.0	1334.7
5°	1265.3	1280.9	1265.3	1272.2	1294.8	1275.7	1287.9	1284.4	1286.2	1296.6	1308.6
7.5°	1228.9	1241.0	1227.2	1235.9	1256.6	1241.0	1251.5	1251.5	1253.2	1268.8	1279.2
10°	1192.5	1203.0	1192.5	1199.5	1222.0	1208.1	1215.1	1216.8	1222.0	1235.9	1251.5
12.5°	1159.5	1168.3	1157.8	1168.3	1187.3	1173.4	1182.1	1183.9	1189.0	1204.7	1222.0
15°	1135.3	1144.0	1133.6	1142.2	1159.5	1149.2	1156.1	1159.5	1163.0	1176.9	1192.5
17.5°	1116.3	1123.2	1114.5	1124.9	1138.8	1126.7	1137.1	1137.1	1142.2	1156.1	1173.4
20°	1095.4	1102.4	1095.4	1104.2	1119.8	1109.3	1118.0	1118.0	1123.2	1138.8	1154.4
22.5°	1076.4	1079.9	1076.4	1083.4	1098.9	1090.2	1095.4	1097.2	1102.4	1116.3	1130.2
25°	1060.8	1067.7	1064.2	1071.2	1081.6	1072.9	1078.1	1079.9	1085.1	1097.2	1109.3
27.5°	1043.4	1046.9	1043.4	1052.2	1060.8	1053.9	1059.1	1057.3	1060.8	1071.2	1081.6
30°	1008.8	1012.3	1012.3	1017.4	1024.4	1021.0	1026.1	1021.0	1024.4	1033.1	1043.4
32.5°	958.5	960.3	962.0	967.2	972.4	967.2	970.7	970.7	970.7	977.6	984.6
35°	894.4	897.8	896.1	899.6	904.8	903.1	903.1	901.3	897.8	901.3	904.8
37.5°	821.7	816.4	816.4	821.7	825.0	818.2	821.7	818.2	818.2	819.9	819.9
40°	745.3	740.1	745.3	747.1	748.8	745.3	743.6	740.1	734.9	736.7	733.2
42.5°	681.2	677.7	679.5	679.5	681.2	677.7	679.5	672.6	667.3	663.8	658.6
45°	629.2	624.0	629.2	625.7	625.7	624.0	622.3	618.8	611.8	606.7	598.0
47.5°	580.7	580.7	582.4	582.4	582.4	578.9	578.9	572.0	565.0	558.1	546.0
50°	540.8	537.4	544.2	544.2	539.1	537.4	539.1	530.4	525.2	516.5	504.4
52.5°	497.4	497.4	499.2	499.2	497.4	493.9	495.7	488.8	483.6	474.9	462.8
55°	443.7	440.3	445.4	445.4	443.7	442.0	443.7	438.6	433.4	426.4	416.0
57.5°	383.1	381.3	384.8	386.6	383.1	383.1	384.8	379.6	377.8	371.0	360.5
60°	338.0	336.3	339.8	341.5	338.0	338.0	338.0	331.0	327.5	320.7	313.7
62.5°	306.8	305.1	308.5	306.8	305.1	303.3	305.1	298.1	294.7	287.8	280.8
65°	270.5	272.2	273.9	273.9	272.2	270.5	270.5	267.0	263.5	256.6	247.9
67.5°	235.7	235.7	237.5	239.2	237.5	237.5	237.5	232.2	228.7	223.6	213.2
70°	199.4	197.6	202.8	202.8	199.4	201.1	199.4	197.6	194.1	187.2	178.5
72.5°	161.1	161.1	162.9	162.9	161.1	161.1	161.1	159.4	154.3	150.8	142.1
75°	124.8	124.8	126.5	128.3	124.8	124.8	126.5	123.1	119.6	114.4	109.1
77.5°	93.6	91.8	93.6	93.6	91.8	91.8	91.8	90.2	88.4	83.2	78.0
80°	65.8	64.1	65.8	65.8	65.8	64.1	64.1	62.3	62.3	58.9	53.8
82.5°	45.0	43.3	45.0	45.0	45.0	43.3	43.3	43.3	41.6	39.9	36.4
85°	29.5	27.7	27.7	29.5	27.7	27.7	27.7	27.7	26.0	24.3	22.6
87.5°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	12.1	12.1	12.1	10.4
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°	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1327.7	1324.2	1334.7	1331.2	1332.9	1324.2	1338.1	1331.2	1339.8	1331.2	1348.5
5°	1305.2	1301.8	1317.4	1315.6	1317.4	1310.4	1326.0	1324.2	1334.7	1327.7	1346.8
7.5°	1280.9	1277.4	1294.8	1296.6	1300.0	1293.1	1313.9	1313.9	1324.2	1322.5	1343.3
10°	1253.2	1254.9	1272.2	1275.7	1282.7	1279.2	1298.3	1303.5	1317.4	1315.6	1341.6
12.5°	1227.2	1227.2	1249.8	1256.6	1261.8	1260.1	1282.7	1289.6	1305.2	1308.6	1332.9
15°	1201.3	1203.0	1223.7	1234.1	1241.0	1239.3	1263.6	1272.2	1291.3	1293.1	1322.5
17.5°	1180.4	1178.7	1201.3	1209.8	1220.3	1218.6	1244.5	1254.9	1274.0	1279.2	1306.9
20°	1163.0	1161.3	1182.1	1192.5	1199.5	1197.8	1223.7	1235.9	1253.2	1256.6	1284.4
22.5°	1142.2	1138.8	1159.5	1168.3	1175.2	1173.4	1196.0	1204.7	1222.0	1225.5	1251.5
25°	1118.0	1114.5	1133.6	1138.8	1144.0	1140.5	1159.5	1164.8	1178.7	1182.1	1208.1
27.5°	1090.2	1081.6	1097.2	1097.2	1100.7	1095.4	1109.3	1114.5	1126.7	1126.7	1151.0
30°	1046.9	1034.9	1043.4	1041.7	1043.4	1036.6	1045.2	1046.9	1055.6	1053.9	1071.2
32.5°	986.3	968.9	974.1	968.9	963.8	953.4	963.8	960.3	967.2	960.3	975.8
35°	903.1	885.8	884.0	877.0	871.9	863.2	863.2	854.6	856.3	851.1	861.5
37.5°	812.9	790.4	787.0	773.1	764.4	754.0	754.0	747.1	738.4	734.9	743.6
40°	724.5	700.3	691.6	669.1	660.3	650.0	643.0	634.4	630.9	617.1	624.0
42.5°	648.3	622.3	603.3	578.9	570.3	554.7	544.2	533.9	528.7	513.1	520.0
45°	584.2	553.0	532.2	500.9	488.8	471.5	455.9	443.7	431.6	424.6	421.2
47.5°	530.4	497.4	469.7	435.1	416.0	400.4	379.6	367.5	351.9	343.2	338.0
50°	485.4	448.9	417.7	377.8	358.8	341.5	317.2	298.1	284.3	270.5	267.0
52.5°	445.4	407.3	372.7	327.5	305.1	284.3	258.2	237.5	225.3	209.7	208.0
55°	398.6	365.8	327.5	280.8	258.2	237.5	209.7	189.0	173.4	162.9	159.4
57.5°	348.4	317.2	280.8	234.0	211.4	189.0	162.9	143.8	130.0	121.4	119.6
60°	301.6	272.2	237.5	190.7	168.1	149.1	121.4	102.3	90.2	83.2	79.7
62.5°	267.0	239.2	206.3	162.9	142.1	123.1	97.1	79.7	69.3	62.3	58.9
65°	234.0	206.3	176.8	136.9	119.6	102.3	78.0	62.3	52.0	45.0	41.6
67.5°	199.4	175.1	147.3	114.4	97.1	83.2	62.3	48.5	39.9	34.7	31.2
70°	164.6	142.1	119.6	91.8	79.7	65.8	48.5	38.1	29.5	26.0	22.6
72.5°	130.0	112.6	93.6	71.1	60.6	52.0	38.1	27.7	22.6	19.1	15.6
75°	97.1	84.9	69.3	53.8	45.0	38.1	27.7	20.8	17.3	13.8	12.1
77.5°	69.3	58.9	48.5	36.4	33.0	27.7	19.1	15.6	12.1	8.7	7.0
80°	46.8	41.6	33.0	26.0	20.8	19.1	13.8	10.4	7.0	5.3	5.3
82.5°	31.2	26.0	20.8	15.6	13.8	12.1	8.7	7.0	5.3	3.5	3.5
85°	19.1	15.6	12.1	8.7	8.7	7.0	5.3	3.5	1.8	1.8	1.8
87.5°	8.7	7.0	5.3	3.5	3.5	1.8	1.8	1.8	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1362.4	1352.0	1345.1	1353.7	1357.1	1352.0	1357.1	1365.9	1374.5	1376.2	1352.0
5°	1364.2	1353.7	1350.3	1360.6	1362.4	1360.6	1365.9	1378.0	1388.4	1391.9	1367.7
7.5°	1364.2	1357.1	1355.4	1367.7	1369.4	1367.7	1376.2	1390.1	1400.5	1407.4	1383.2
10°	1360.6	1357.1	1358.9	1369.4	1372.8	1372.8	1385.0	1400.5	1410.9	1417.9	1393.6
12.5°	1355.4	1355.4	1355.4	1367.7	1371.1	1372.8	1383.2	1404.0	1410.9	1421.3	1397.1
15°	1346.8	1346.8	1346.8	1358.9	1364.2	1364.2	1376.2	1395.3	1404.0	1414.4	1390.1
17.5°	1331.2	1331.2	1332.9	1343.3	1348.5	1348.5	1360.6	1381.5	1386.7	1398.8	1374.5
20°	1308.6	1308.6	1310.4	1320.8	1326.0	1322.5	1338.1	1355.4	1360.6	1371.1	1346.8
22.5°	1275.7	1275.7	1275.7	1286.2	1289.6	1287.9	1303.5	1319.1	1319.1	1332.9	1306.9
25°	1227.2	1230.7	1227.2	1237.6	1241.0	1239.3	1253.2	1267.1	1263.6	1279.2	1253.2
27.5°	1168.3	1166.5	1166.5	1175.2	1175.2	1173.4	1183.9	1199.5	1196.0	1206.3	1182.1
30°	1086.8	1091.9	1083.4	1095.4	1090.2	1086.8	1093.7	1107.6	1102.4	1111.0	1091.9
32.5°	993.1	986.3	986.3	986.3	989.7	981.1	988.0	994.9	989.7	998.4	977.6
35°	870.2	871.9	866.7	868.5	870.2	859.7	866.7	873.6	866.7	871.9	852.8
37.5°	747.1	748.8	736.7	743.6	736.7	733.2	740.1	743.6	736.7	741.8	721.1
40°	624.0	620.6	618.8	618.8	620.6	611.8	617.1	622.3	617.1	620.6	601.5
42.5°	516.5	514.8	511.3	513.1	507.8	506.2	507.8	513.1	507.8	511.3	497.4
45°	422.9	419.5	414.3	416.0	416.0	407.3	412.5	416.0	410.8	412.5	400.4
47.5°	336.3	331.0	331.0	329.3	329.3	325.8	331.0	329.3	324.1	327.5	315.5
50°	261.7	258.2	258.2	258.2	258.2	253.1	254.8	258.2	253.1	253.1	246.1
52.5°	204.5	199.4	195.9	195.9	195.9	194.1	194.1	195.9	190.7	190.7	189.0
55°	154.3	152.6	147.3	147.3	147.3	142.1	143.8	143.8	142.1	142.1	136.9
57.5°	114.4	109.1	105.8	105.8	102.3	102.3	100.6	102.3	98.8	98.8	95.3
60°	76.2	72.8	71.1	69.3	69.3	67.6	69.3	67.6	67.6	65.8	64.1
62.5°	55.5	52.0	48.5	48.5	48.5	46.8	46.8	46.8	46.8	46.8	45.0
65°	39.9	36.4	36.4	34.7	34.7	33.0	33.0	33.0	33.0	33.0	31.2
67.5°	27.7	26.0	24.3	24.3	24.3	24.3	24.3	24.3	22.6	22.6	22.6
70°	20.8	19.1	17.3	17.3	17.3	17.3	17.3	15.6	17.3	17.3	15.6
72.5°	13.8	13.8	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
75°	10.4	10.4	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
77.5°	7.0	7.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	5.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0
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: P857650

CATALOG NUMBER: LX4C30D010 EX4C309835 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1378.0	1376.2	1372.8	1378.0	1364.2	1358.9	1357.1	1372.8
5°	1397.1	1393.6	1393.6	1398.8	1383.2	1379.7	1376.2	1393.6
7.5°	1414.4	1410.9	1410.9	1416.2	1402.3	1398.8	1395.3	1412.7
10°	1424.7	1424.7	1424.7	1428.2	1416.2	1412.7	1410.9	1428.2
12.5°	1430.0	1430.0	1428.2	1435.2	1419.6	1419.6	1416.2	1433.5
15°	1423.0	1423.0	1423.0	1428.2	1414.4	1410.9	1410.9	1424.7
17.5°	1405.7	1405.7	1404.0	1409.2	1393.6	1393.6	1391.9	1407.4
20°	1379.7	1379.7	1376.2	1383.2	1367.7	1362.4	1360.6	1376.2
22.5°	1338.1	1336.4	1334.7	1338.1	1324.2	1320.8	1319.1	1332.9
25°	1284.4	1282.7	1279.2	1282.7	1267.1	1261.8	1261.8	1272.2
27.5°	1208.1	1208.1	1203.0	1208.1	1190.7	1189.0	1187.3	1199.5
30°	1114.5	1107.6	1104.2	1111.0	1093.7	1093.7	1090.2	1102.4
32.5°	998.4	991.4	989.7	993.1	977.6	972.4	979.3	986.3
35°	865.0	866.7	859.7	859.7	845.9	847.6	849.3	859.7
37.5°	736.7	733.2	731.4	733.2	722.8	719.4	715.9	726.3
40°	617.1	608.4	606.7	606.7	598.0	596.3	598.0	603.3
42.5°	504.4	502.7	495.7	499.2	490.5	493.9	492.2	492.2
45°	407.3	409.0	402.1	407.3	400.4	395.2	395.2	398.6
47.5°	322.4	322.4	320.7	320.7	315.5	317.2	313.7	319.0
50°	249.6	249.6	246.1	247.9	244.4	244.4	242.6	244.4
52.5°	190.7	189.0	189.0	187.2	183.7	185.5	187.2	183.7
55°	138.7	140.4	136.9	138.7	135.2	136.9	135.2	136.9
57.5°	95.3	97.1	93.6	97.1	93.6	95.3	93.6	93.6
60°	65.8	65.8	64.1	65.8	64.1	64.1	62.3	65.8
62.5°	45.0	45.0	45.0	45.0	45.0	43.3	45.0	45.0
65°	33.0	31.2	31.2	31.2	31.2	31.2	31.2	31.2
67.5°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
70°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
72.5°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
75°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	1.8	1.8	0.0	1.8	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)