

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: P857676

Luminaire Tested: **LX4C30D010 EX4C309850 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857676
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 EX4C309850 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

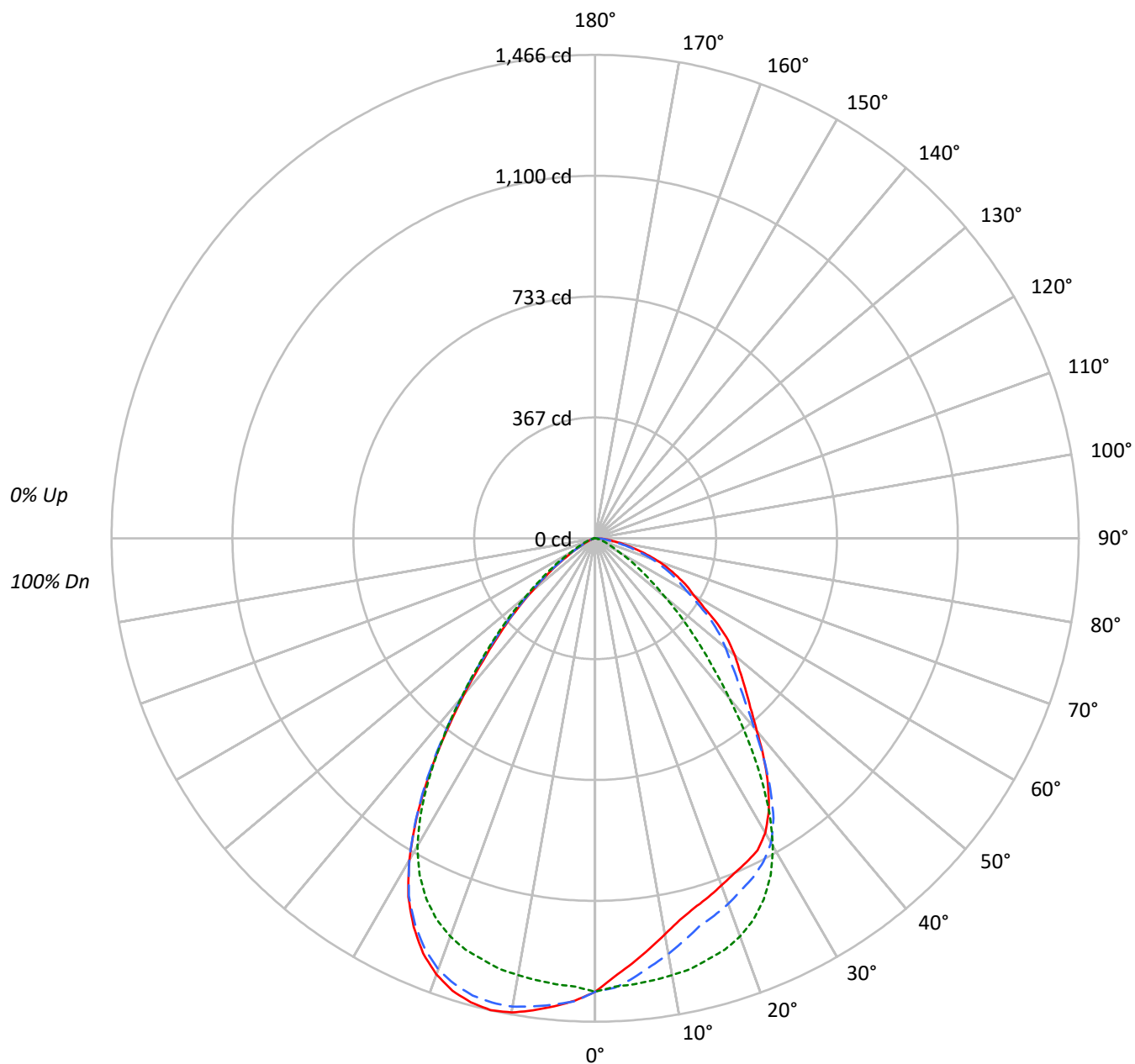
Lumens per Lamp: N/A
Luminaire Lumens: 2410.4 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	168936	168936	168936
5°	159530	167398	175686
10°	152081	167775	182146
15°	147626	168129	185261
20°	146400	167959	183948
25°	146995	163817	176301
30°	146299	152839	159875
35°	137123	130494	131814
40°	122189	101164	98903
45°	111750	75421	70799
50°	105674	52827	47762
55°	97156	35684	29986
60°	84892	20885	16536
65°	80348	13372	9273
70°	73205	9555	5747
75°	60568	6740	4225
80°	47614	3820	2547
85°	42429	2537	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	5.4
10°-20°	372.7	15.5
20°-30°	552.5	22.9
30°-40°	553.3	23.0
40°-50°	386.7	16.0
50°-60°	230.1	9.5
60°-70°	120.1	5.0
70°-80°	53.4	2.2
80°-90°	11.7	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°	1055.2	43.8
0°-40°	1608.5	66.7
0°-60°	2225.2	92.3
0°-90°	2410.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2410.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1375	1375	1375	1375	1375	
5°	1294	1338	1357	1419	1425	121
15°	1161	1219	1322	1435	1457	329
25°	1084	1134	1208	1292	1301	500
35°	914	925	870	886	879	567
45°	643	611	434	420	408	499
55°	454	425	167	145	140	403
65°	276	253	46	34	32	273
75°	128	112	14	9	9	138
85°	30	23	2	2	0	34
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°	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1
2.5°	1330.7	1346.7	1330.7	1336.1	1357.4	1337.9	1348.5	1348.5	1343.2	1355.5	1364.5
5°	1293.6	1309.5	1293.6	1300.6	1323.7	1304.2	1316.6	1313.1	1314.9	1325.5	1337.9
7.5°	1256.4	1268.8	1254.6	1263.4	1284.7	1268.8	1279.4	1279.4	1281.2	1297.0	1307.7
10°	1219.1	1229.8	1219.1	1226.2	1249.3	1235.2	1242.2	1244.0	1249.3	1263.4	1279.4
12.5°	1185.5	1194.3	1183.7	1194.3	1213.7	1199.7	1208.5	1210.3	1215.6	1231.6	1249.3
15°	1160.7	1169.5	1158.9	1167.7	1185.5	1174.8	1181.9	1185.5	1189.0	1203.1	1219.1
17.5°	1141.2	1148.3	1139.4	1150.0	1164.2	1151.9	1162.5	1162.5	1167.7	1181.9	1199.7
20°	1119.8	1127.0	1119.8	1128.8	1144.7	1134.1	1142.9	1142.9	1148.3	1164.2	1180.1
22.5°	1100.4	1104.0	1100.4	1107.5	1123.4	1114.6	1119.8	1121.7	1127.0	1141.2	1155.3
25°	1084.4	1091.6	1088.0	1095.1	1105.7	1096.8	1102.2	1104.0	1109.2	1121.7	1134.1
27.5°	1066.7	1070.3	1066.7	1075.6	1084.4	1077.4	1082.8	1080.9	1084.4	1095.1	1105.7
30°	1031.3	1034.9	1034.9	1040.1	1047.3	1043.8	1049.0	1043.8	1047.3	1056.1	1066.7
32.5°	979.9	981.7	983.4	988.8	994.1	988.8	992.3	992.3	992.3	999.5	1006.5
35°	914.3	917.9	916.2	919.7	925.0	923.2	923.2	921.4	917.9	921.4	925.0
37.5°	839.9	834.6	834.6	839.9	843.5	836.4	839.9	836.4	836.4	838.1	838.1
40°	761.9	756.6	761.9	763.8	765.5	761.9	760.2	756.6	751.3	753.1	749.6
42.5°	696.5	692.8	694.7	694.7	696.5	692.8	694.7	687.5	682.2	678.6	673.4
45°	643.2	638.0	643.2	639.6	639.6	638.0	636.2	632.6	625.6	620.2	611.4
47.5°	593.6	593.6	595.3	595.3	595.3	591.8	591.8	584.7	577.7	570.5	558.2
50°	552.9	549.3	556.4	556.4	551.1	549.3	551.1	542.3	536.9	528.1	515.6
52.5°	508.6	508.6	510.3	510.3	508.6	505.0	506.8	499.7	494.4	485.6	473.1
55°	453.6	450.2	455.4	455.4	453.6	451.8	453.6	448.3	443.0	436.0	425.3
57.5°	391.7	389.9	393.3	395.1	391.7	391.7	393.3	388.1	386.3	379.2	368.6
60°	345.5	343.8	347.3	349.1	345.5	345.5	345.5	338.4	334.8	327.8	320.7
62.5°	313.6	311.9	315.4	313.6	311.9	310.1	311.9	304.8	301.2	294.2	287.1
65°	276.4	278.2	280.0	280.0	278.2	276.4	276.4	273.0	269.4	262.3	253.4
67.5°	240.9	240.9	242.7	244.5	242.7	242.7	242.7	237.4	233.9	228.6	217.9
70°	203.8	202.0	207.3	207.3	203.8	205.5	203.8	202.0	198.4	191.4	182.5
72.5°	164.8	164.8	166.6	166.6	164.8	164.8	164.8	163.0	157.7	154.2	145.4
75°	127.6	127.6	129.3	131.2	127.6	127.6	129.3	125.8	122.3	117.0	111.6
77.5°	95.7	93.9	95.7	95.7	93.9	93.9	93.9	92.2	90.3	85.0	79.7
80°	67.3	65.5	67.3	67.3	67.3	65.5	65.5	63.8	63.8	60.2	54.9
82.5°	46.0	44.3	46.0	46.0	46.0	44.3	44.3	44.3	42.5	40.8	37.3
85°	30.1	28.4	28.4	30.1	28.4	28.4	28.4	28.4	26.6	24.8	23.1
87.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	12.4	12.4	12.4	10.6
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°	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1
2.5°	1357.4	1353.8	1364.5	1360.9	1362.7	1353.8	1368.0	1360.9	1369.7	1360.9	1378.6
5°	1334.3	1330.7	1346.7	1344.9	1346.7	1339.7	1355.5	1353.8	1364.5	1357.4	1376.8
7.5°	1309.5	1306.0	1323.7	1325.5	1329.1	1321.9	1343.2	1343.2	1353.8	1352.1	1373.3
10°	1281.2	1282.9	1300.6	1304.2	1311.3	1307.7	1327.3	1332.5	1346.7	1344.9	1371.5
12.5°	1254.6	1254.6	1277.6	1284.7	1290.0	1288.3	1311.3	1318.4	1334.3	1337.9	1362.7
15°	1228.0	1229.8	1251.0	1261.6	1268.8	1267.0	1291.8	1300.6	1320.1	1321.9	1352.1
17.5°	1206.7	1205.0	1228.0	1236.8	1247.5	1245.8	1272.2	1282.9	1302.4	1307.7	1336.1
20°	1189.0	1187.3	1208.5	1219.1	1226.2	1224.5	1251.0	1263.4	1281.2	1284.7	1313.1
22.5°	1167.7	1164.2	1185.5	1194.3	1201.4	1199.7	1222.7	1231.6	1249.3	1252.8	1279.4
25°	1142.9	1139.4	1158.9	1164.2	1169.5	1166.0	1185.5	1190.8	1205.0	1208.5	1235.2
27.5°	1114.6	1105.7	1121.7	1121.7	1125.2	1119.8	1134.1	1139.4	1151.9	1151.9	1176.7
30°	1070.3	1058.0	1066.7	1065.0	1066.7	1059.7	1068.6	1070.3	1079.2	1077.4	1095.1
32.5°	1008.3	990.5	995.9	990.5	985.3	974.7	985.3	981.7	988.8	981.7	997.6
35°	923.2	905.5	903.7	896.6	891.4	882.5	882.5	873.6	875.3	870.1	880.7
37.5°	831.0	808.1	804.5	790.4	781.4	770.8	770.8	763.8	754.9	751.3	760.2
40°	740.7	715.9	707.1	684.0	675.1	664.4	657.4	648.6	645.0	630.8	638.0
42.5°	662.7	636.2	616.7	591.8	583.0	567.1	556.4	545.7	540.5	524.5	531.6
45°	597.2	565.3	544.1	512.0	499.7	482.0	466.0	453.6	441.2	434.1	430.6
47.5°	542.3	508.6	480.2	444.8	425.3	409.3	388.1	375.7	359.7	350.9	345.5
50°	496.2	459.0	427.1	386.3	366.9	349.1	324.2	304.8	290.6	276.4	273.0
52.5°	455.4	416.4	381.0	334.8	311.9	290.6	264.0	242.7	230.3	214.5	212.6
55°	407.5	373.9	334.8	287.1	264.0	242.7	214.5	193.2	177.2	166.6	163.0
57.5°	356.2	324.2	287.1	239.3	216.2	193.2	166.6	147.0	132.9	124.0	122.3
60°	308.4	278.2	242.7	194.9	171.8	152.4	124.0	104.5	92.2	85.0	81.5
62.5°	273.0	244.5	210.9	166.6	145.4	125.8	99.3	81.5	70.9	63.8	60.2
65°	239.3	210.9	180.8	140.0	122.3	104.5	79.7	63.8	53.1	46.0	42.5
67.5°	203.8	179.0	150.6	117.0	99.3	85.0	63.8	49.6	40.8	35.4	31.9
70°	168.3	145.4	122.3	93.9	81.5	67.3	49.6	39.0	30.1	26.6	23.1
72.5°	132.9	115.2	95.7	72.7	62.1	53.1	39.0	28.4	23.1	19.5	16.0
75°	99.3	86.9	70.9	54.9	46.0	39.0	28.4	21.2	17.7	14.2	12.4
77.5°	70.9	60.2	49.6	37.3	33.7	28.4	19.5	16.0	12.4	8.9	7.0
80°	47.9	42.5	33.7	26.6	21.2	19.5	14.2	10.6	7.0	5.4	5.4
82.5°	31.9	26.6	21.2	16.0	14.2	12.4	8.9	7.0	5.4	3.6	3.6
85°	19.5	16.0	12.4	8.9	8.9	7.0	5.4	3.6	1.8	1.8	1.8
87.5°	8.9	7.0	5.4	3.6	3.6	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°	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1
2.5°	1392.8	1382.2	1375.1	1383.9	1387.5	1382.2	1387.5	1396.4	1405.2	1407.0	1382.2
5°	1394.6	1383.9	1380.3	1391.0	1392.8	1391.0	1396.4	1408.8	1419.4	1423.0	1398.2
7.5°	1394.6	1387.5	1385.7	1398.2	1399.9	1398.2	1407.0	1421.2	1431.8	1438.8	1414.0
10°	1391.0	1387.5	1389.2	1399.9	1403.4	1403.4	1415.8	1431.8	1442.4	1449.4	1424.6
12.5°	1385.7	1385.7	1385.7	1398.2	1401.7	1403.4	1414.0	1435.3	1442.4	1453.0	1428.2
15°	1376.8	1376.8	1376.8	1389.2	1394.6	1394.6	1407.0	1426.5	1435.3	1446.0	1421.2
17.5°	1360.9	1360.9	1362.7	1373.3	1378.6	1378.6	1391.0	1412.3	1417.6	1430.0	1405.2
20°	1337.9	1337.9	1339.7	1350.3	1355.5	1352.1	1368.0	1385.7	1391.0	1401.7	1376.8
22.5°	1304.2	1304.2	1304.2	1314.9	1318.4	1316.6	1332.5	1348.5	1348.5	1362.7	1336.1
25°	1254.6	1258.1	1254.6	1265.2	1268.8	1267.0	1281.2	1295.3	1291.8	1307.7	1281.2
27.5°	1194.3	1192.5	1192.5	1201.4	1201.4	1199.7	1210.3	1226.2	1222.7	1233.3	1208.5
30°	1111.0	1116.4	1107.5	1119.8	1114.6	1111.0	1118.2	1132.3	1127.0	1135.8	1116.4
32.5°	1015.3	1008.3	1008.3	1008.3	1011.8	1002.9	1010.1	1017.1	1011.8	1020.7	999.5
35°	889.5	891.4	886.0	887.8	889.5	878.9	886.0	893.1	886.0	891.4	871.9
37.5°	763.8	765.5	753.1	760.2	753.1	749.6	756.6	760.2	753.1	758.4	737.1
40°	638.0	634.4	632.6	632.6	634.4	625.6	630.8	636.2	630.8	634.4	614.9
42.5°	528.1	526.3	522.7	524.5	519.2	517.4	519.2	524.5	519.2	522.7	508.6
45°	432.3	428.7	423.5	425.3	425.3	416.4	421.7	425.3	420.0	421.7	409.3
47.5°	343.8	338.4	338.4	336.7	336.7	333.2	338.4	336.7	331.4	334.8	322.5
50°	267.6	264.0	264.0	264.0	264.0	258.7	260.5	264.0	258.7	258.7	251.6
52.5°	209.1	203.8	200.3	200.3	200.3	198.4	198.4	200.3	194.9	194.9	193.2
55°	157.7	156.0	150.6	150.6	150.6	145.4	147.0	147.0	145.4	145.4	140.0
57.5°	117.0	111.6	108.1	108.1	104.5	104.5	102.8	104.5	101.0	101.0	97.5
60°	77.9	74.4	72.7	70.9	70.9	69.1	70.9	69.1	69.1	67.3	65.5
62.5°	56.7	53.1	49.6	49.6	49.6	47.9	47.9	47.9	47.9	47.9	46.0
65°	40.8	37.3	37.3	35.4	35.4	33.7	33.7	33.7	33.7	33.7	31.9
67.5°	28.4	26.6	24.8	24.8	24.8	24.8	24.8	24.8	23.1	23.1	23.1
70°	21.2	19.5	17.7	17.7	17.7	17.7	17.7	16.0	17.7	17.7	16.0
72.5°	14.2	14.2	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
75°	10.6	10.6	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
77.5°	7.0	7.0	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
80°	5.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	3.6	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: P857676

CATALOG NUMBER: LX4C30D010 EX4C309850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1	1375.1
2.5°	1408.8	1407.0	1403.4	1408.8	1394.6	1389.2	1387.5	1403.4
5°	1428.2	1424.6	1424.6	1430.0	1414.0	1410.5	1407.0	1424.6
7.5°	1446.0	1442.4	1442.4	1447.7	1433.6	1430.0	1426.5	1444.2
10°	1456.6	1456.6	1456.6	1460.1	1447.7	1444.2	1442.4	1460.1
12.5°	1461.9	1461.9	1460.1	1467.2	1451.3	1451.3	1447.7	1465.5
15°	1454.8	1454.8	1454.8	1460.1	1446.0	1442.4	1442.4	1456.6
17.5°	1437.1	1437.1	1435.3	1440.7	1424.6	1424.6	1423.0	1438.8
20°	1410.5	1410.5	1407.0	1414.0	1398.2	1392.8	1391.0	1407.0
22.5°	1368.0	1366.2	1364.5	1368.0	1353.8	1350.3	1348.5	1362.7
25°	1313.1	1311.3	1307.7	1311.3	1295.3	1290.0	1290.0	1300.6
27.5°	1235.2	1235.2	1229.8	1235.2	1217.3	1215.6	1213.7	1226.2
30°	1139.4	1132.3	1128.8	1135.8	1118.2	1118.2	1114.6	1127.0
32.5°	1020.7	1013.6	1011.8	1015.3	999.5	994.1	1001.2	1008.3
35°	884.3	886.0	878.9	878.9	864.7	866.5	868.3	878.9
37.5°	753.1	749.6	747.7	749.6	739.0	735.4	731.9	742.5
40°	630.8	622.0	620.2	620.2	611.4	609.6	611.4	616.7
42.5°	515.6	513.9	506.8	510.3	501.4	505.0	503.3	503.3
45°	416.4	418.1	411.1	416.4	409.3	404.0	404.0	407.5
47.5°	329.6	329.6	327.8	327.8	322.5	324.2	320.7	326.0
50°	255.1	255.1	251.6	253.4	249.9	249.9	248.1	249.9
52.5°	194.9	193.2	193.2	191.4	187.8	189.7	191.4	187.8
55°	141.8	143.5	140.0	141.8	138.2	140.0	138.2	140.0
57.5°	97.5	99.3	95.7	99.3	95.7	97.5	95.7	95.7
60°	67.3	67.3	65.5	67.3	65.5	65.5	63.8	67.3
62.5°	46.0	46.0	46.0	46.0	46.0	44.3	46.0	46.0
65°	33.7	31.9	31.9	31.9	31.9	31.9	31.9	31.9
67.5°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
70°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
72.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
75°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
77.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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)