

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: P858006

Luminaire Tested: **LX4C40D010 EX4C409830 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C40D010 EX4C409830 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

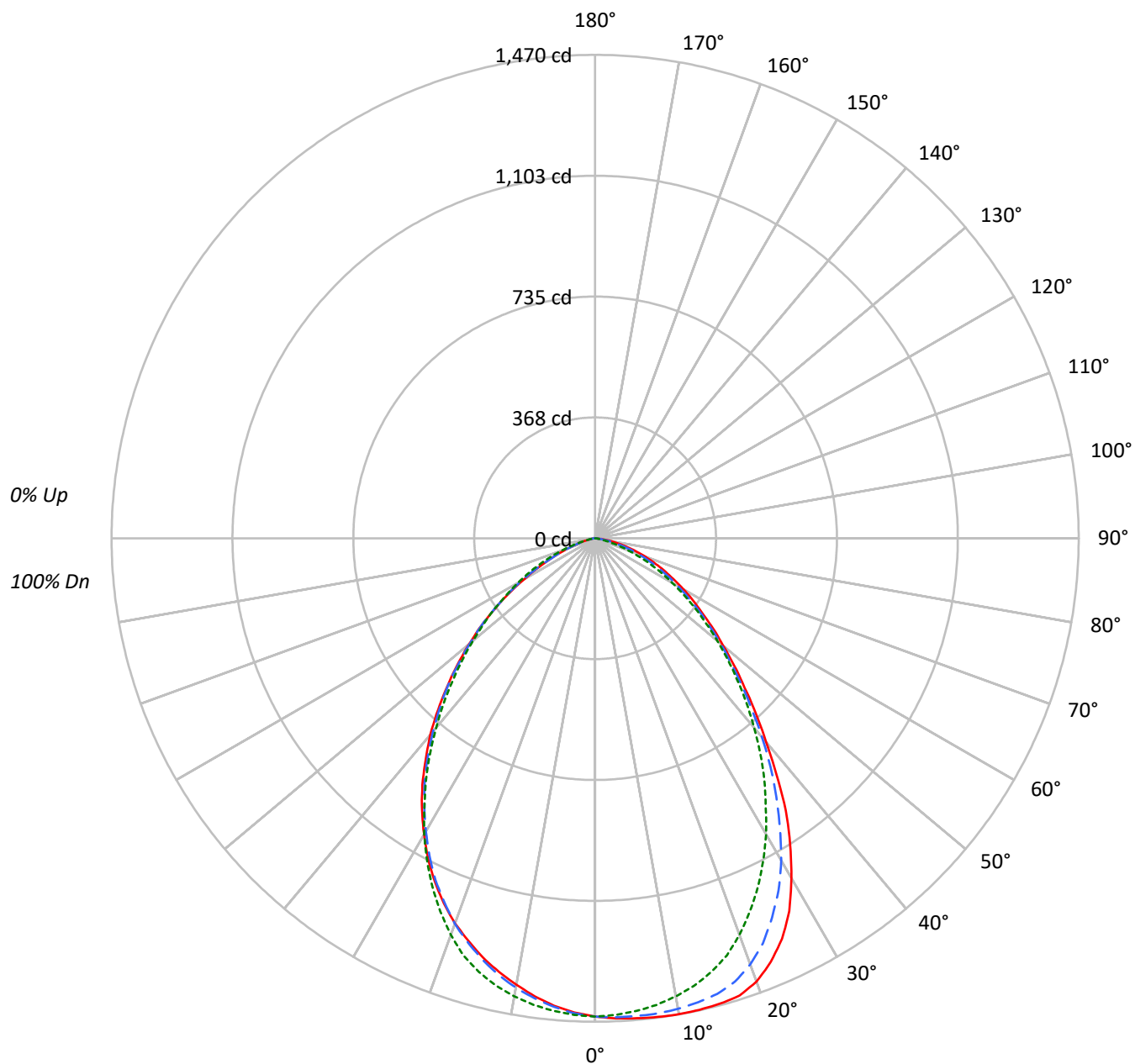
Lumens per Lamp: N/A
Luminaire Lumens: 2741.2 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	86	100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	74	93	85	78	73		82	76	72		79	75	71		77	73	70
4	88	78	70	64	86	77	69	64		74	68	63		72	67	62		70	65	62
5	82	71	63	57	80	69	62	57		67	61	56		66	60	55		64	59	55
6	76	64	56	51	74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	46	69	58	51	45		57	50	45		55	49	45		54	49	44
8	67	54	47	41	65	54	46	41		52	46	41		51	45	41		50	45	40
9	62	50	43	38	61	50	42	37		49	42	37		47	41	37		47	41	37
10	59	47	39	34	58	46	39	34		45	39	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	178690	178690	178690
5°	180693	177930	175994
10°	183343	176432	171966
15°	186355	173623	167849
20°	187544	167711	162886
25°	182157	158639	156226
30°	169280	147448	147533
35°	151521	134409	137273
40°	129742	120489	124899
45°	111681	106243	110221
50°	97073	92486	95276
55°	85440	79571	78843
60°	75997	66390	61181
65°	66686	53168	44215
70°	57256	37572	29957
75°	46470	21740	17515
80°	33252	9551	8702
85°	12545	3947	3947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	5.0
10°-20°	388.0	14.2
20°-30°	554.1	20.2
30°-40°	579.7	21.1
40°-50°	485.7	17.7
50°-60°	339.9	12.4
60°-70°	185.1	6.8
70°-80°	64.2	2.3
80°-90°	7.4	0.3
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°	1079.2	39.4
0°-40°	1658.9	60.5
0°-60°	2484.5	90.6
0°-90°	2741.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2741.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1454	1454	1454	1454	1454	
5°	1465	1458	1443	1430	1427	140
15°	1465	1434	1365	1326	1320	414
25°	1344	1272	1170	1147	1152	614
35°	1010	961	896	903	915	626
45°	643	628	612	632	634	500
55°	399	386	372	372	368	360
65°	229	209	183	154	152	228
75°	98	80	46	37	37	106
85°	9	5	3	3	3	16
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°	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5
2.5°	1461.3	1459.6	1460.1	1460.1	1460.1	1459.6	1460.1	1459.6	1459.6	1459.1	1457.9
5°	1465.2	1464.1	1464.1	1464.1	1463.5	1462.9	1462.9	1462.4	1461.3	1460.7	1458.4
7.5°	1468.0	1466.8	1466.8	1466.3	1465.8	1465.2	1464.6	1462.9	1461.3	1460.1	1457.4
10°	1469.7	1468.0	1468.0	1466.8	1465.8	1465.2	1464.1	1461.8	1459.6	1456.7	1452.9
12.5°	1468.5	1466.8	1466.3	1465.2	1462.9	1461.8	1460.7	1457.9	1454.0	1450.1	1445.1
15°	1465.2	1464.1	1462.9	1461.3	1458.4	1456.7	1455.7	1451.2	1446.1	1440.6	1434.5
17.5°	1458.4	1456.7	1454.5	1452.3	1448.4	1446.8	1443.9	1438.3	1431.1	1423.2	1413.7
20°	1434.5	1433.3	1431.1	1427.1	1421.0	1418.8	1414.8	1407.5	1398.1	1388.5	1378.5
22.5°	1394.7	1393.0	1389.7	1386.3	1380.7	1376.8	1373.5	1363.4	1352.8	1342.7	1333.2
25°	1343.8	1342.1	1337.6	1333.2	1327.5	1320.8	1317.5	1309.7	1299.0	1286.2	1272.2
27.5°	1278.3	1272.7	1271.1	1266.0	1257.6	1255.4	1250.4	1240.3	1230.2	1219.0	1207.2
30°	1193.3	1193.3	1189.9	1187.7	1179.9	1177.6	1172.0	1161.4	1155.8	1140.2	1131.2
32.5°	1103.3	1102.1	1099.3	1097.6	1093.2	1089.3	1083.6	1078.0	1065.7	1057.9	1045.6
35°	1010.3	1003.7	1004.7	1001.4	998.6	994.1	993.6	987.4	976.2	971.7	960.6
37.5°	904.6	901.8	905.7	900.7	897.9	898.4	894.0	890.0	885.6	877.7	875.5
40°	809.0	811.2	810.6	806.1	808.4	805.6	801.1	797.2	795.0	789.9	788.3
42.5°	723.4	720.0	718.9	718.9	719.5	719.5	717.2	714.4	714.4	709.4	704.3
45°	642.8	642.8	641.7	645.0	640.0	640.0	638.3	637.8	635.5	634.4	628.2
47.5°	573.4	572.9	572.3	571.8	571.2	571.2	567.9	565.0	564.5	561.1	557.8
50°	507.9	511.3	510.3	507.4	506.3	506.9	504.6	502.9	502.4	496.8	497.3
52.5°	453.2	452.6	453.7	452.0	449.3	449.8	447.6	445.3	443.1	440.3	438.0
55°	398.9	401.6	400.6	398.9	398.3	397.2	395.5	392.7	392.2	386.0	385.5
57.5°	353.6	353.0	351.9	349.1	348.5	346.9	346.9	344.7	341.3	337.9	335.1
60°	309.3	309.3	307.7	307.1	304.9	304.4	303.8	301.5	297.7	294.8	290.4
62.5°	266.9	268.0	266.9	265.2	263.5	261.3	260.1	258.4	255.1	252.3	248.4
65°	229.4	228.8	228.3	226.1	225.4	223.2	222.7	219.3	216.0	213.8	209.2
67.5°	193.6	191.9	191.9	190.7	189.7	188.0	186.8	183.5	179.6	177.4	172.9
70°	159.4	158.3	158.3	158.3	155.5	153.8	153.3	151.6	146.0	143.7	139.3
72.5°	128.1	127.5	127.0	125.3	123.6	123.6	121.4	118.1	115.2	112.4	109.1
75°	97.9	99.0	97.9	95.7	95.1	94.0	92.3	89.5	86.7	83.4	79.5
77.5°	71.6	70.4	69.4	69.4	68.2	66.0	65.5	63.2	59.8	57.6	53.7
80°	47.0	46.5	45.3	44.2	43.6	43.1	42.5	40.3	36.9	35.2	31.9
82.5°	25.8	25.1	25.1	24.6	22.9	22.9	22.4	20.2	18.5	17.3	15.7
85°	8.9	8.9	8.9	8.4	8.4	8.4	7.8	7.3	6.7	6.2	5.0
87.5°	1.2	0.5	1.2	0.5	1.2	0.5	0.5	0.5	0.5	0.5	0.5
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°	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5
2.5°	1456.7	1455.7	1455.1	1454.5	1454.0	1453.5	1452.9	1451.8	1451.2	1450.6	1449.5
5°	1456.7	1454.5	1453.5	1451.8	1450.6	1449.5	1447.8	1446.1	1444.4	1442.8	1441.1
7.5°	1454.5	1451.2	1449.0	1445.6	1444.4	1442.8	1439.4	1437.2	1434.5	1431.1	1427.1
10°	1449.0	1445.1	1440.6	1436.1	1434.5	1431.6	1427.1	1423.2	1418.8	1414.3	1410.4
12.5°	1440.0	1433.8	1428.3	1422.1	1418.8	1416.0	1409.8	1404.2	1398.6	1393.6	1386.8
15°	1426.6	1419.3	1412.1	1403.6	1399.8	1396.4	1387.5	1380.7	1371.8	1365.1	1358.3
17.5°	1404.8	1393.6	1384.6	1374.0	1368.4	1364.5	1356.7	1346.0	1337.6	1330.4	1322.5
20°	1367.3	1356.7	1344.3	1332.6	1326.5	1321.4	1310.2	1299.0	1290.6	1282.8	1274.4
22.5°	1318.1	1304.6	1295.7	1281.2	1276.1	1269.9	1256.6	1246.5	1236.9	1229.1	1221.2
25°	1258.2	1246.5	1234.2	1220.7	1214.6	1207.2	1196.1	1185.5	1179.3	1170.3	1160.9
27.5°	1189.4	1179.9	1164.8	1153.0	1146.9	1141.3	1130.6	1121.1	1112.2	1106.0	1097.1
30°	1116.6	1105.5	1092.0	1079.7	1076.3	1069.6	1060.1	1052.9	1043.3	1039.4	1035.5
32.5°	1036.6	1023.8	1013.7	1005.9	999.2	993.6	988.5	976.8	975.1	965.0	963.9
35°	949.3	943.8	934.3	927.6	922.0	918.0	909.7	904.0	897.9	896.2	892.3
37.5°	867.1	860.4	851.4	845.3	841.4	840.8	834.7	831.4	826.8	824.6	820.1
40°	781.0	778.2	770.4	769.2	763.1	762.5	759.1	755.2	751.3	751.3	751.9
42.5°	701.5	698.1	694.8	690.9	687.5	687.5	685.8	684.8	683.6	682.0	684.8
45°	627.2	622.7	620.4	616.6	618.2	614.9	613.7	613.7	612.0	611.5	615.4
47.5°	557.8	552.7	550.5	549.4	549.4	549.9	544.9	546.5	546.0	547.2	548.8
50°	494.6	490.1	486.7	486.7	487.2	485.0	482.8	484.5	482.8	483.9	487.9
52.5°	435.8	431.3	429.6	429.6	426.3	425.7	426.9	424.6	425.2	425.7	427.9
55°	381.6	378.7	376.0	373.1	373.7	372.6	370.3	369.8	370.9	371.5	374.3
57.5°	332.9	329.0	325.0	323.9	322.8	322.8	320.0	319.4	320.6	317.7	317.7
60°	286.4	284.2	279.2	277.5	277.5	274.7	272.4	273.6	270.7	270.2	270.7
62.5°	243.4	241.7	238.4	235.0	233.8	232.7	229.9	228.8	227.7	225.4	222.1
65°	205.9	202.0	198.1	195.8	194.1	191.4	189.7	187.4	184.1	182.9	179.6
67.5°	168.4	164.4	160.6	158.9	157.2	155.5	152.8	149.9	146.0	141.5	137.6
70°	135.4	130.4	128.1	123.6	122.5	120.3	116.4	113.6	109.7	104.6	100.7
72.5°	103.5	100.1	96.8	92.8	90.1	88.4	85.1	80.5	76.1	73.3	69.4
75°	74.4	72.8	68.2	63.8	62.7	60.5	56.5	53.7	50.4	45.8	42.5
77.5°	50.4	47.0	44.2	40.3	39.1	36.9	34.7	31.9	29.7	26.8	24.6
80°	29.7	26.8	25.1	22.4	21.2	20.2	18.5	16.2	14.5	13.5	12.8
82.5°	14.5	12.3	11.8	10.1	9.5	8.9	7.8	7.3	6.2	6.2	6.2
85°	5.0	3.9	3.9	3.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.2	0.5
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°	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5
2.5°	1449.0	1448.4	1447.8	1447.3	1447.3	1446.8	1446.8	1446.1	1446.1	1445.6	1445.6
5°	1438.9	1437.2	1436.1	1435.0	1435.0	1433.3	1432.1	1431.1	1430.5	1430.5	1429.4
7.5°	1424.9	1422.7	1420.5	1418.8	1418.2	1415.4	1413.1	1413.1	1410.9	1409.8	1408.7
10°	1406.5	1402.5	1399.1	1397.4	1395.2	1393.6	1390.8	1389.1	1387.5	1384.6	1384.1
12.5°	1381.3	1378.5	1373.5	1371.2	1370.1	1366.7	1362.2	1360.0	1359.5	1357.2	1355.5
15°	1352.8	1346.6	1342.1	1339.3	1339.3	1333.7	1331.5	1328.2	1325.8	1324.2	1323.6
17.5°	1315.9	1309.7	1305.2	1301.2	1300.2	1295.7	1292.3	1291.2	1288.4	1289.5	1286.7
20°	1268.2	1263.2	1259.9	1254.9	1254.9	1252.0	1250.9	1248.1	1247.0	1245.9	1247.0
22.5°	1217.3	1211.2	1205.6	1205.0	1205.0	1201.1	1200.6	1200.0	1197.8	1199.5	1198.9
25°	1157.5	1153.0	1149.6	1149.1	1149.1	1146.9	1144.6	1145.7	1147.4	1146.9	1148.6
27.5°	1095.4	1091.0	1089.8	1089.3	1088.1	1087.6	1088.6	1088.6	1090.3	1092.6	1094.8
30°	1028.3	1027.1	1025.5	1024.9	1023.8	1026.6	1027.7	1029.3	1028.8	1032.2	1034.4
32.5°	961.1	958.9	958.4	959.4	961.1	960.6	963.9	965.0	966.2	970.0	971.7
35°	893.4	892.9	891.7	891.7	892.3	896.8	896.8	900.7	903.0	904.0	908.5
37.5°	820.7	822.9	824.1	825.8	826.3	828.0	829.1	833.0	835.3	837.5	839.8
40°	754.1	753.0	758.1	754.7	755.8	760.8	763.1	762.5	765.9	769.2	771.4
42.5°	683.1	684.8	685.8	687.0	689.8	690.4	693.2	697.1	698.1	702.1	703.2
45°	614.2	614.9	617.1	619.3	621.0	625.5	626.5	628.2	631.6	631.6	633.3
47.5°	549.4	551.6	551.6	554.9	557.8	557.2	561.1	562.2	561.7	564.5	565.6
50°	487.2	490.6	490.1	492.3	493.4	494.0	497.3	498.5	496.3	499.0	499.6
52.5°	427.9	429.6	431.9	432.5	431.3	434.1	433.0	435.3	434.7	437.0	434.7
55°	373.7	373.1	373.1	374.3	373.1	374.3	375.4	373.1	371.5	373.7	373.1
57.5°	319.4	319.4	318.4	320.0	318.4	316.7	316.1	314.4	312.7	312.7	312.2
60°	268.5	267.4	265.2	264.6	264.6	261.8	260.7	258.4	258.4	256.2	254.0
62.5°	221.0	218.2	216.5	216.5	215.4	212.6	207.6	204.2	203.0	199.8	199.1
65°	176.2	173.4	171.7	168.4	165.6	164.4	159.4	155.5	153.8	150.5	151.1
67.5°	135.4	130.9	125.9	123.6	122.0	118.1	116.4	113.6	111.9	111.9	111.9
70°	97.4	93.5	88.4	86.7	85.6	82.2	80.5	80.0	81.7	81.1	81.7
72.5°	65.5	61.5	59.3	58.1	57.1	55.4	56.5	57.1	55.9	56.5	57.1
75°	39.7	38.6	36.9	36.4	36.4	36.9	36.4	36.4	36.9	36.9	37.5
77.5°	22.9	21.8	21.8	21.2	22.4	21.8	21.8	21.8	22.4	22.4	22.4
80°	12.3	12.3	12.3	12.3	12.8	12.3	12.8	12.8	12.8	12.8	12.8
82.5°	6.2	6.2	6.2	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.2
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	0.5	1.2	1.2	1.2	1.2	1.2	0.5	0.5	0.5	0.5	0.5
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: P858006

CATALOG NUMBER: LX4C40D010 EX4C409830 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5	1454.5
2.5°	1444.4	1444.4	1444.4	1443.4	1443.9	1443.9	1443.4	1443.4
5°	1428.8	1428.3	1427.1	1427.1	1426.0	1427.1	1426.6	1427.1
7.5°	1407.5	1407.5	1405.9	1405.9	1405.3	1404.8	1404.2	1404.8
10°	1382.4	1382.4	1381.3	1380.7	1381.3	1379.0	1379.0	1378.5
12.5°	1354.4	1353.3	1352.1	1352.8	1352.1	1350.5	1349.9	1350.5
15°	1322.0	1320.3	1320.8	1319.2	1319.2	1318.6	1319.7	1319.7
17.5°	1286.2	1285.0	1283.9	1284.5	1283.4	1283.9	1283.4	1282.8
20°	1246.5	1245.9	1245.9	1243.6	1244.2	1243.6	1244.2	1245.9
22.5°	1200.6	1200.0	1200.6	1198.9	1200.0	1200.0	1201.7	1201.7
25°	1150.3	1149.6	1150.8	1151.3	1151.9	1153.6	1151.9	1152.5
27.5°	1094.3	1096.0	1097.6	1098.2	1100.4	1098.7	1097.6	1099.3
30°	1037.8	1037.8	1037.2	1039.4	1041.1	1042.8	1040.0	1040.0
32.5°	972.9	975.7	975.7	976.2	977.9	977.9	977.9	980.1
35°	910.7	912.4	913.1	910.7	911.9	911.4	915.3	915.3
37.5°	841.4	841.4	842.0	845.9	845.9	844.2	845.3	845.3
40°	775.4	776.0	773.7	774.8	777.6	776.5	777.6	778.8
42.5°	703.2	707.2	704.9	706.0	705.5	706.0	706.6	706.6
45°	634.4	635.5	635.5	636.1	637.2	638.3	635.0	634.4
47.5°	567.2	567.9	569.6	566.7	570.1	566.7	570.1	566.2
50°	499.6	501.8	500.2	501.2	499.6	499.6	499.0	498.5
52.5°	435.3	434.7	434.7	434.1	434.1	435.3	434.1	435.8
55°	370.9	371.5	370.3	369.8	369.3	370.9	369.3	368.1
57.5°	310.0	311.0	308.8	310.0	306.0	307.7	308.3	308.8
60°	253.4	251.7	251.7	249.5	249.5	251.2	249.0	249.0
62.5°	196.4	197.5	195.8	198.1	198.1	200.3	199.1	200.3
65°	150.5	151.1	151.6	151.6	151.6	155.0	153.8	152.1
67.5°	113.6	114.1	114.7	114.1	115.8	114.7	114.7	115.2
70°	82.2	82.8	83.4	83.4	82.8	83.4	83.4	83.4
72.5°	57.1	57.6	57.1	57.6	58.1	57.6	57.6	58.1
75°	37.5	37.5	36.9	36.9	36.9	36.9	37.5	36.9
77.5°	21.8	22.4	21.8	22.4	22.4	22.4	22.4	22.4
80°	12.8	12.8	12.8	12.3	12.8	12.8	12.8	12.3
82.5°	6.7	6.7	6.2	6.2	6.7	6.7	6.7	6.7
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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)