

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: P857584

Luminaire Tested: **LX4C30D010 EX4C309040 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857584
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 EX4C309040 4LBSWNH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

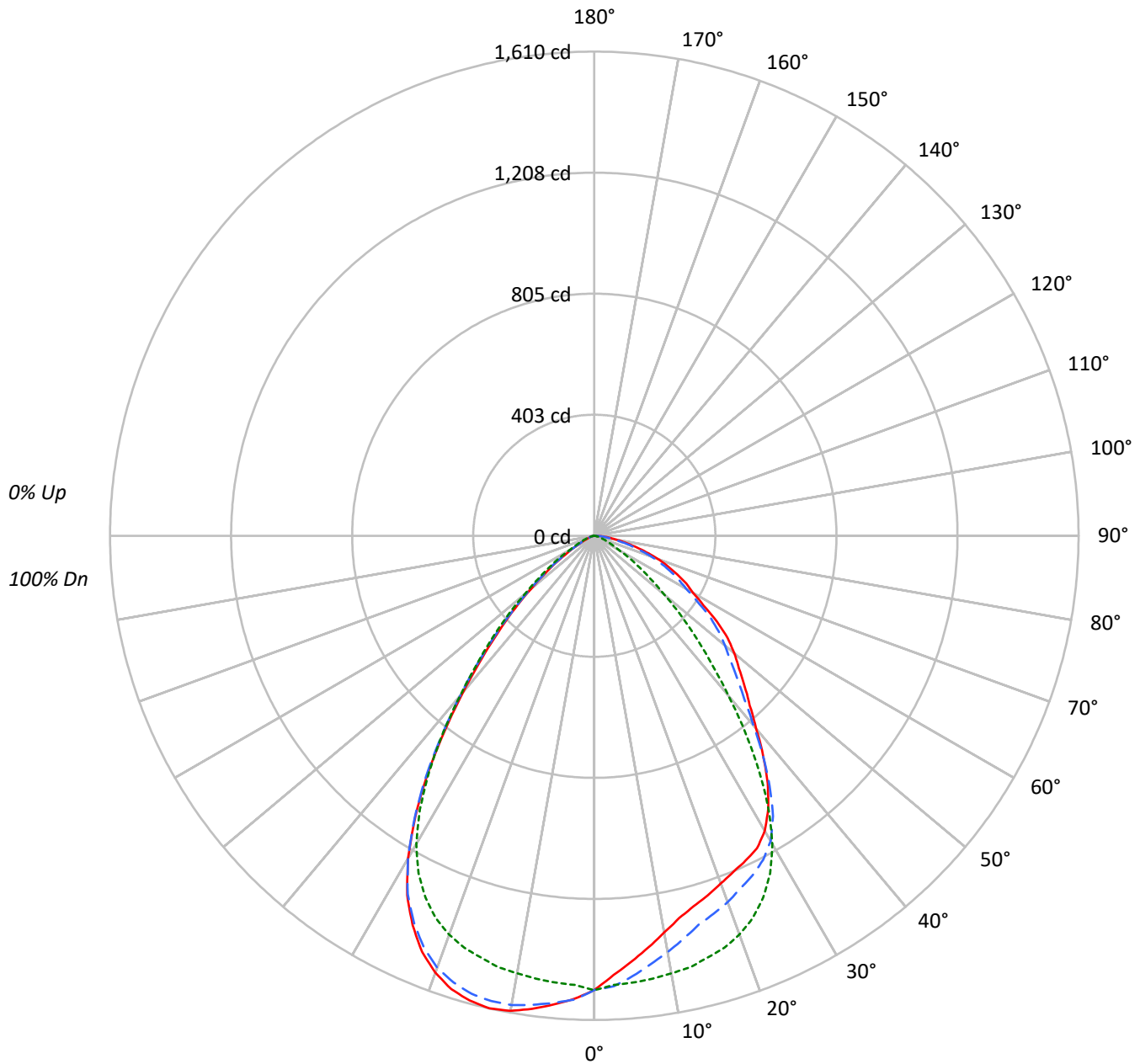
Lumens per Lamp: N/A
Luminaire Lumens: 2648.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857584

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBSWNH

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°	185582	185582	185582
5°	175254	183899	193012
10°	167076	184316	200097
15°	162176	184714	203525
20°	160847	184524	202082
25°	161499	179975	193679
30°	160726	167904	175636
35°	150651	143362	144817
40°	134249	111155	108653
45°	122765	82857	77784
50°	116090	58045	52464
55°	106752	39196	32942
60°	93270	22949	18158
65°	88284	14709	10174
70°	80425	10489	6322
75°	66549	7405	4652
80°	52283	4174	2759
85°	46657	2819	0



TEST NUMBER: P857584

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	5.4
10°-20°	409.5	15.5
20°-30°	607.0	22.9
30°-40°	607.8	23.0
40°-50°	424.8	16.0
50°-60°	252.8	9.5
60°-70°	131.9	5.0
70°-80°	58.7	2.2
80°-90°	12.8	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°	1159.2	43.8
0°-40°	1767.0	66.7
0°-60°	2444.6	92.3
0°-90°	2648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1511	1511	1511	1511	1511	
5°	1421	1470	1491	1559	1565	133
15°	1275	1339	1452	1577	1600	361
25°	1191	1246	1328	1419	1429	549
35°	1004	1016	956	973	966	623
45°	707	672	477	461	448	549
55°	498	467	183	160	154	442
65°	304	278	51	37	35	300
75°	140	123	16	10	10	152
85°	33	25	2	2	0	37
90°	0	0	0	0	0	



TEST NUMBER: P857584

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6
2.5°	1462.0	1479.5	1462.0	1467.8	1491.2	1469.7	1481.4	1481.4	1475.6	1489.2	1499.0
5°	1421.1	1438.6	1421.1	1428.8	1454.2	1432.7	1446.4	1442.5	1444.5	1456.2	1469.7
7.5°	1380.2	1393.8	1378.2	1388.0	1411.4	1393.8	1405.5	1405.5	1407.5	1424.9	1436.7
10°	1339.3	1351.0	1339.3	1347.1	1372.4	1356.9	1364.7	1366.6	1372.4	1388.0	1405.5
12.5°	1302.3	1312.1	1300.4	1312.1	1333.5	1317.9	1327.7	1329.6	1335.4	1353.0	1372.4
15°	1275.1	1284.8	1273.2	1282.9	1302.3	1290.6	1298.4	1302.3	1306.2	1321.8	1339.3
17.5°	1253.7	1261.5	1251.7	1263.4	1279.0	1265.4	1277.1	1277.1	1282.9	1298.4	1317.9
20°	1230.3	1238.1	1230.3	1240.0	1257.6	1245.9	1255.6	1255.6	1261.5	1279.0	1296.5
22.5°	1208.9	1212.8	1208.9	1216.7	1234.2	1224.5	1230.3	1232.3	1238.1	1253.7	1269.3
25°	1191.4	1199.1	1195.3	1203.0	1214.7	1205.0	1210.8	1212.8	1218.6	1232.3	1245.9
27.5°	1171.9	1175.8	1171.9	1181.7	1191.4	1183.6	1189.5	1187.5	1191.4	1203.0	1214.7
30°	1133.0	1136.9	1136.9	1142.7	1150.5	1146.6	1152.4	1146.6	1150.5	1160.2	1171.9
32.5°	1076.5	1078.5	1080.4	1086.3	1092.1	1086.3	1090.2	1090.2	1090.2	1098.0	1105.7
35°	1004.5	1008.4	1006.5	1010.4	1016.2	1014.2	1014.2	1012.3	1008.4	1012.3	1016.2
37.5°	922.7	916.9	916.9	922.7	926.6	918.9	922.7	918.9	918.9	920.8	920.8
40°	837.1	831.3	837.1	839.0	840.9	837.1	835.1	831.3	825.4	827.4	823.5
42.5°	765.1	761.1	763.1	763.1	765.1	761.1	763.1	755.3	749.4	745.6	739.8
45°	706.6	700.8	706.6	702.7	702.7	700.8	698.9	695.0	687.2	681.4	671.6
47.5°	652.2	652.2	654.1	654.1	654.1	650.2	650.2	642.4	634.6	626.8	613.2
50°	607.4	603.5	611.2	611.2	605.4	603.5	605.4	595.7	589.9	580.1	566.5
52.5°	558.7	558.7	560.7	560.7	558.7	554.8	556.8	549.0	543.1	533.4	519.8
55°	498.4	494.5	500.3	500.3	498.4	496.4	498.4	492.5	486.7	478.9	467.2
57.5°	430.2	428.3	432.1	434.1	430.2	430.2	432.1	426.3	424.4	416.6	404.9
60°	379.6	377.7	381.6	383.5	379.6	379.6	379.6	371.8	367.9	360.1	352.3
62.5°	344.5	342.6	346.5	344.5	342.6	340.7	342.6	334.9	331.0	323.2	315.4
65°	303.7	305.6	307.6	307.6	305.6	303.7	303.7	299.8	295.9	288.1	278.4
67.5°	264.7	264.7	266.7	268.6	266.7	266.7	266.7	260.8	256.9	251.1	239.5
70°	223.9	221.9	227.8	227.8	223.9	225.8	223.9	221.9	218.0	210.2	200.5
72.5°	181.0	181.0	183.0	183.0	181.0	181.0	181.0	179.1	173.2	169.3	159.6
75°	140.2	140.2	142.1	144.1	140.2	140.2	142.1	138.2	134.3	128.5	122.6
77.5°	105.2	103.2	105.2	105.2	103.2	103.2	103.2	101.3	99.3	93.4	87.6
80°	73.9	72.0	73.9	73.9	73.9	72.0	72.0	70.1	70.1	66.2	60.4
82.5°	50.6	48.7	50.6	50.6	50.6	48.7	48.7	48.7	46.7	44.8	40.9
85°	33.1	31.1	31.1	33.1	31.1	31.1	31.1	31.1	29.2	27.2	25.3
87.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	13.7	13.7	13.7	11.7
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: P857584

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6
2.5°	1491.2	1487.3	1499.0	1495.1	1497.0	1487.3	1502.9	1495.1	1504.8	1495.1	1514.5
5°	1465.9	1462.0	1479.5	1477.5	1479.5	1471.7	1489.2	1487.3	1499.0	1491.2	1512.6
7.5°	1438.6	1434.7	1454.2	1456.2	1460.1	1452.3	1475.6	1475.6	1487.3	1485.3	1508.7
10°	1407.5	1409.4	1428.8	1432.7	1440.6	1436.7	1458.1	1463.9	1479.5	1477.5	1506.8
12.5°	1378.2	1378.2	1403.6	1411.4	1417.2	1415.3	1440.6	1448.4	1465.9	1469.7	1497.0
15°	1349.1	1351.0	1374.4	1386.0	1393.8	1391.9	1419.1	1428.8	1450.3	1452.3	1485.3
17.5°	1325.7	1323.8	1349.1	1358.8	1370.5	1368.6	1397.7	1409.4	1430.8	1436.7	1467.8
20°	1306.2	1304.3	1327.7	1339.3	1347.1	1345.2	1374.4	1388.0	1407.5	1411.4	1442.5
22.5°	1282.9	1279.0	1302.3	1312.1	1319.9	1317.9	1343.2	1353.0	1372.4	1376.3	1405.5
25°	1255.6	1251.7	1273.2	1279.0	1284.8	1280.9	1302.3	1308.2	1323.8	1327.7	1356.9
27.5°	1224.5	1214.7	1232.3	1232.3	1236.2	1230.3	1245.9	1251.7	1265.4	1265.4	1292.6
30°	1175.8	1162.2	1171.9	1170.0	1171.9	1164.1	1173.9	1175.8	1185.6	1183.6	1203.0
32.5°	1107.6	1088.2	1094.1	1088.2	1082.4	1070.7	1082.4	1078.5	1086.3	1078.5	1096.0
35°	1014.2	994.8	992.8	985.0	979.2	969.5	969.5	959.8	961.7	955.9	967.5
37.5°	913.0	887.7	883.8	868.3	858.5	846.8	846.8	839.0	829.3	825.4	835.1
40°	813.7	786.5	776.8	751.4	741.7	730.0	722.2	712.5	708.6	693.1	700.8
42.5°	728.1	698.9	677.5	650.2	640.5	622.9	611.2	599.6	593.8	576.2	584.0
45°	656.0	621.0	597.7	562.6	549.0	529.5	512.0	498.4	484.7	476.9	473.0
47.5°	595.7	558.7	527.5	488.6	467.2	449.7	426.3	412.7	395.2	385.4	379.6
50°	545.1	504.2	469.2	424.4	403.0	383.5	356.2	334.9	319.3	303.7	299.8
52.5°	500.3	457.5	418.6	367.9	342.6	319.3	290.1	266.7	253.0	235.6	233.6
55°	447.7	410.8	367.9	315.4	290.1	266.7	235.6	212.2	194.7	183.0	179.1
57.5°	391.3	356.2	315.4	262.8	237.5	212.2	183.0	161.5	146.0	136.3	134.3
60°	338.7	305.6	266.7	214.1	188.8	167.4	136.3	114.8	101.3	93.4	89.5
62.5°	299.8	268.6	231.7	183.0	159.6	138.2	109.0	89.5	77.8	70.1	66.2
65°	262.8	231.7	198.6	153.8	134.3	114.8	87.6	70.1	58.4	50.6	46.7
67.5°	223.9	196.7	165.4	128.5	109.0	93.4	70.1	54.5	44.8	38.9	35.0
70°	184.9	159.6	134.3	103.2	89.5	73.9	54.5	42.8	33.1	29.2	25.3
72.5°	146.0	126.5	105.2	79.8	68.1	58.4	42.8	31.1	25.3	21.4	17.6
75°	109.0	95.4	77.8	60.4	50.6	42.8	31.1	23.4	19.5	15.6	13.7
77.5°	77.8	66.2	54.5	40.9	37.0	31.1	21.4	17.6	13.7	9.8	7.8
80°	52.6	46.7	37.0	29.2	23.4	21.4	15.6	11.7	7.8	5.9	5.9
82.5°	35.0	29.2	23.4	17.6	15.6	13.7	9.8	7.8	5.9	3.9	3.9
85°	21.4	17.6	13.7	9.8	9.8	7.8	5.9	3.9	2.0	2.0	2.0
87.5°	9.8	7.8	5.9	3.9	3.9	2.0	2.0	2.0	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: P857584

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6
2.5°	1530.1	1518.4	1510.6	1520.3	1524.2	1518.4	1524.2	1534.0	1543.8	1545.7	1518.4
5°	1532.1	1520.3	1516.4	1528.1	1530.1	1528.1	1534.0	1547.7	1559.3	1563.2	1536.0
7.5°	1532.1	1524.2	1522.3	1536.0	1537.9	1536.0	1545.7	1561.2	1572.9	1580.7	1553.5
10°	1528.1	1524.2	1526.2	1537.9	1541.8	1541.8	1555.4	1572.9	1584.6	1592.4	1565.1
12.5°	1522.3	1522.3	1522.3	1536.0	1539.9	1541.8	1553.5	1576.8	1584.6	1596.3	1569.0
15°	1512.6	1512.6	1512.6	1526.2	1532.1	1532.1	1545.7	1567.1	1576.8	1588.5	1561.2
17.5°	1495.1	1495.1	1497.0	1508.7	1514.5	1514.5	1528.1	1551.5	1557.3	1571.0	1543.8
20°	1469.7	1469.7	1471.7	1483.4	1489.2	1485.3	1502.9	1522.3	1528.1	1539.9	1512.6
22.5°	1432.7	1432.7	1432.7	1444.5	1448.4	1446.4	1463.9	1481.4	1481.4	1497.0	1467.8
25°	1378.2	1382.1	1378.2	1389.9	1393.8	1391.9	1407.5	1423.0	1419.1	1436.7	1407.5
27.5°	1312.1	1310.1	1310.1	1319.9	1319.9	1317.9	1329.6	1347.1	1343.2	1354.9	1327.7
30°	1220.6	1226.4	1216.7	1230.3	1224.5	1220.6	1228.4	1243.9	1238.1	1247.8	1226.4
32.5°	1115.4	1107.6	1107.6	1107.6	1111.5	1101.8	1109.6	1117.4	1111.5	1121.3	1098.0
35°	977.2	979.2	973.3	975.3	977.2	965.6	973.3	981.1	973.3	979.2	957.8
37.5°	839.0	840.9	827.4	835.1	827.4	823.5	831.3	835.1	827.4	833.2	809.8
40°	700.8	696.9	695.0	695.0	696.9	687.2	693.1	698.9	693.1	696.9	675.5
42.5°	580.1	578.2	574.3	576.2	570.3	568.4	570.3	576.2	570.3	574.3	558.7
45°	475.0	471.1	465.3	467.2	467.2	457.5	463.3	467.2	461.4	463.3	449.7
47.5°	377.7	371.8	371.8	369.9	369.9	366.0	371.8	369.9	364.0	367.9	354.3
50°	293.9	290.1	290.1	290.1	290.1	284.2	286.2	290.1	284.2	284.2	276.4
52.5°	229.7	223.9	220.0	220.0	220.0	218.0	218.0	220.0	214.1	214.1	212.2
55°	173.2	171.3	165.4	165.4	165.4	159.6	161.5	161.5	159.6	159.6	153.8
57.5°	128.5	122.6	118.7	118.7	114.8	114.8	112.9	114.8	111.0	111.0	107.1
60°	85.6	81.7	79.8	77.8	77.8	75.9	77.8	75.9	75.9	73.9	72.0
62.5°	62.3	58.4	54.5	54.5	54.5	52.6	52.6	52.6	52.6	52.6	50.6
65°	44.8	40.9	40.9	38.9	38.9	37.0	37.0	37.0	37.0	37.0	35.0
67.5°	31.1	29.2	27.2	27.2	27.2	27.2	27.2	27.2	25.3	25.3	25.3
70°	23.4	21.4	19.5	19.5	19.5	19.5	19.5	17.6	19.5	19.5	17.6
72.5°	15.6	15.6	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
75°	11.7	11.7	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
77.5°	7.8	7.8	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	5.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	3.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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: P857584

CATALOG NUMBER: LX4C30D010 EX4C309040 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6	1510.6
2.5°	1547.7	1545.7	1541.8	1547.7	1532.1	1526.2	1524.2	1541.8
5°	1569.0	1565.1	1565.1	1571.0	1553.5	1549.6	1545.7	1565.1
7.5°	1588.5	1584.6	1584.6	1590.5	1574.9	1571.0	1567.1	1586.6
10°	1600.2	1600.2	1600.2	1604.0	1590.5	1586.6	1584.6	1604.0
12.5°	1606.0	1606.0	1604.0	1611.8	1594.4	1594.4	1590.5	1609.9
15°	1598.2	1598.2	1598.2	1604.0	1588.5	1584.6	1584.6	1600.2
17.5°	1578.8	1578.8	1576.8	1582.7	1565.1	1565.1	1563.2	1580.7
20°	1549.6	1549.6	1545.7	1553.5	1536.0	1530.1	1528.1	1545.7
22.5°	1502.9	1500.9	1499.0	1502.9	1487.3	1483.4	1481.4	1497.0
25°	1442.5	1440.6	1436.7	1440.6	1423.0	1417.2	1417.2	1428.8
27.5°	1356.9	1356.9	1351.0	1356.9	1337.3	1335.4	1333.5	1347.1
30°	1251.7	1243.9	1240.0	1247.8	1228.4	1228.4	1224.5	1238.1
32.5°	1121.3	1113.5	1111.5	1115.4	1098.0	1092.1	1099.9	1107.6
35°	971.4	973.3	965.6	965.6	950.0	951.9	953.9	965.6
37.5°	827.4	823.5	821.5	823.5	811.8	807.9	804.0	815.7
40°	693.1	683.3	681.4	681.4	671.6	669.7	671.6	677.5
42.5°	566.5	564.5	556.8	560.7	550.9	554.8	552.9	552.9
45°	457.5	459.4	451.6	457.5	449.7	443.8	443.8	447.7
47.5°	362.1	362.1	360.1	360.1	354.3	356.2	352.3	358.2
50°	280.3	280.3	276.4	278.4	274.5	274.5	272.5	274.5
52.5°	214.1	212.2	212.2	210.2	206.3	208.3	210.2	206.3
55°	155.7	157.7	153.8	155.7	151.9	153.8	151.9	153.8
57.5°	107.1	109.0	105.2	109.0	105.2	107.1	105.2	105.2
60°	73.9	73.9	72.0	73.9	72.0	72.0	70.1	73.9
62.5°	50.6	50.6	50.6	50.6	50.6	48.7	50.6	50.6
65°	37.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
67.5°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
70°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
72.5°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
75°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
77.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	2.0	2.0	0.0	2.0	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)