

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: P857563

Luminaire Tested: **LX4C30D010 EX4C309035 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857563
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 EX4C309035 4LBSWNH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

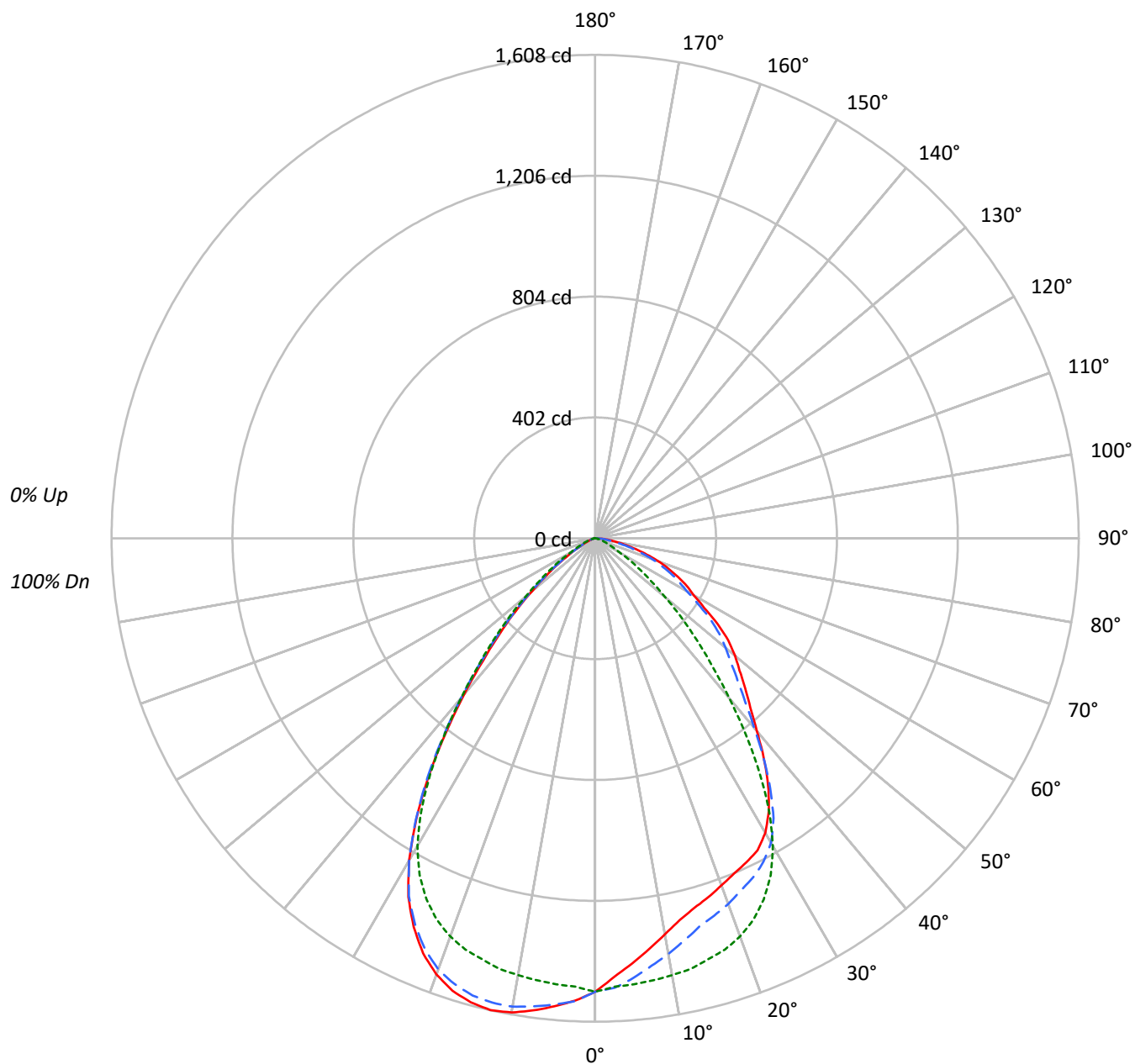
Lumens per Lamp: N/A
Luminaire Lumens: 2644.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P857563

CATALOG NUMBER: LX4C30D010 EX4C309035 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°	185312	185312	185312
5°	174983	183615	192729
10°	166826	184042	199797
15°	161922	184434	203207
20°	160598	184236	201768
25°	161255	179690	193395
30°	160485	167649	175366
35°	150426	143137	144592
40°	134040	110979	108493
45°	122592	82735	77662
50°	115899	57969	52388
55°	106580	39132	32878
60°	93123	22924	18133
65°	88168	14680	10174
70°	80317	10489	6286
75°	66454	7357	4652
80°	52212	4174	2759
85°	46657	2819	0



TEST NUMBER: P857563

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	5.4
10°-20°	408.9	15.5
20°-30°	606.1	22.9
30°-40°	606.9	23.0
40°-50°	424.2	16.0
50°-60°	252.4	9.5
60°-70°	131.7	5.0
70°-80°	58.6	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°	1157.4	43.8
0°-40°	1764.4	66.7
0°-60°	2440.9	92.3
0°-90°	2644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2644.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1508	1508	1508	1508	1508	
5°	1419	1468	1489	1557	1563	133
15°	1273	1337	1450	1574	1598	360
25°	1190	1244	1326	1417	1427	548
35°	1003	1015	954	972	964	622
45°	706	671	476	461	447	548
55°	498	466	183	159	154	442
65°	303	278	50	37	35	300
75°	140	122	16	10	10	151
85°	33	25	2	2	0	37
90°	0	0	0	0	0	



TEST NUMBER: P857563

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1459.8	1477.3	1459.8	1465.6	1488.9	1467.5	1479.2	1479.2	1473.4	1487.0	1496.7
5°	1418.9	1436.4	1418.9	1426.7	1452.0	1430.6	1444.2	1440.3	1442.3	1454.0	1467.5
7.5°	1378.1	1391.7	1376.2	1385.9	1409.2	1391.7	1403.4	1403.4	1405.3	1422.8	1434.5
10°	1337.3	1349.0	1337.3	1345.1	1370.4	1354.8	1362.6	1364.5	1370.4	1385.9	1403.4
12.5°	1300.3	1310.1	1298.4	1310.1	1331.4	1315.9	1325.6	1327.6	1333.4	1350.9	1370.4
15°	1273.1	1282.9	1271.2	1280.9	1300.3	1288.7	1296.5	1300.3	1304.2	1319.8	1337.3
17.5°	1251.8	1259.6	1249.8	1261.5	1277.0	1263.5	1275.1	1275.1	1280.9	1296.5	1315.9
20°	1228.4	1236.2	1228.4	1238.2	1255.7	1244.0	1253.7	1253.7	1259.6	1277.0	1294.6
22.5°	1207.1	1211.0	1207.1	1214.9	1232.3	1222.6	1228.4	1230.4	1236.2	1251.8	1267.4
25°	1189.6	1197.3	1193.4	1201.2	1212.9	1203.2	1209.0	1211.0	1216.8	1230.4	1244.0
27.5°	1170.1	1174.0	1170.1	1179.9	1189.6	1181.8	1187.7	1185.7	1189.6	1201.2	1212.9
30°	1131.3	1135.2	1135.2	1140.9	1148.8	1144.9	1150.7	1144.9	1148.8	1158.5	1170.1
32.5°	1074.9	1076.9	1078.8	1084.6	1090.4	1084.6	1088.5	1088.5	1088.5	1096.3	1104.1
35°	1003.0	1006.8	1004.9	1008.8	1014.6	1012.7	1012.7	1010.7	1006.8	1010.7	1014.6
37.5°	921.4	915.5	915.5	921.4	925.2	917.5	921.4	917.5	917.5	919.4	919.4
40°	835.8	830.0	835.8	837.8	839.7	835.8	833.9	830.0	824.1	826.1	822.2
42.5°	763.9	760.0	762.0	762.0	763.9	760.0	762.0	754.2	748.3	744.4	738.6
45°	705.6	699.8	705.6	701.7	701.7	699.8	697.8	693.9	686.1	680.3	670.6
47.5°	651.2	651.2	653.1	653.1	653.1	649.2	649.2	641.4	633.6	625.9	612.3
50°	606.4	602.6	610.3	610.3	604.5	602.6	604.5	594.8	589.0	579.2	565.6
52.5°	557.8	557.8	559.8	559.8	557.8	553.9	555.9	548.1	542.3	532.6	519.0
55°	497.6	493.7	499.5	499.5	497.6	495.7	497.6	491.8	486.0	478.2	466.5
57.5°	429.6	427.6	431.5	433.5	429.6	429.6	431.5	425.7	423.7	416.0	404.3
60°	379.0	377.1	381.0	383.0	379.0	379.0	379.0	371.2	367.3	359.6	351.8
62.5°	344.0	342.1	346.0	344.0	342.1	340.1	342.1	334.3	330.5	322.7	314.9
65°	303.3	305.2	307.1	307.1	305.2	303.3	303.3	299.4	295.5	287.7	278.0
67.5°	264.3	264.3	266.3	268.2	266.3	266.3	266.3	260.4	256.5	250.8	239.1
70°	223.6	221.6	227.4	227.4	223.6	225.5	223.6	221.6	217.7	209.9	200.2
72.5°	180.7	180.7	182.7	182.7	180.7	180.7	180.7	178.8	173.0	169.1	159.4
75°	140.0	140.0	141.9	143.9	140.0	140.0	141.9	138.0	134.1	128.3	122.4
77.5°	105.0	103.0	105.0	105.0	103.0	103.0	103.0	101.1	99.1	93.3	87.5
80°	73.8	71.9	73.8	73.8	73.8	71.9	71.9	69.9	69.9	66.1	60.3
82.5°	50.5	48.6	50.5	50.5	50.5	48.6	48.6	48.6	46.6	44.7	40.8
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°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	13.6	13.6	13.6	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: P857563

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1488.9	1485.0	1496.7	1492.8	1494.7	1485.0	1500.6	1492.8	1502.5	1492.8	1512.2
5°	1463.6	1459.8	1477.3	1475.3	1477.3	1469.5	1487.0	1485.0	1496.7	1488.9	1510.3
7.5°	1436.4	1432.5	1452.0	1454.0	1457.8	1450.1	1473.4	1473.4	1485.0	1483.1	1506.4
10°	1405.3	1407.3	1426.7	1430.6	1438.4	1434.5	1455.9	1461.7	1477.3	1475.3	1504.5
12.5°	1376.2	1376.2	1401.5	1409.2	1415.0	1413.1	1438.4	1446.2	1463.6	1467.5	1494.7
15°	1347.1	1349.0	1372.3	1383.9	1391.7	1389.8	1417.0	1426.7	1448.1	1450.1	1483.1
17.5°	1323.7	1321.8	1347.1	1356.7	1368.4	1366.5	1395.6	1407.3	1428.7	1434.5	1465.6
20°	1304.2	1302.3	1325.6	1337.3	1345.1	1343.2	1372.3	1385.9	1405.3	1409.2	1440.3
22.5°	1280.9	1277.0	1300.3	1310.1	1317.9	1315.9	1341.2	1350.9	1370.4	1374.3	1403.4
25°	1253.7	1249.8	1271.2	1277.0	1282.9	1279.0	1300.3	1306.2	1321.8	1325.6	1354.8
27.5°	1222.6	1212.9	1230.4	1230.4	1234.3	1228.4	1244.0	1249.8	1263.5	1263.5	1290.7
30°	1174.0	1160.5	1170.1	1168.2	1170.1	1162.4	1172.1	1174.0	1183.8	1181.8	1201.2
32.5°	1106.0	1086.5	1092.4	1086.5	1080.8	1069.1	1080.8	1076.9	1084.6	1076.9	1094.3
35°	1012.7	993.3	991.3	983.5	977.7	968.0	968.0	958.3	960.2	954.4	966.1
37.5°	911.6	886.4	882.5	867.0	857.2	845.5	845.5	837.8	828.0	824.1	833.9
40°	812.5	785.3	775.6	750.3	740.5	728.9	721.1	711.4	707.5	692.0	699.8
42.5°	727.0	697.8	676.5	649.2	639.5	622.0	610.3	598.7	592.9	575.4	583.1
45°	655.1	620.1	596.8	561.7	548.1	528.7	511.2	497.6	484.0	476.2	472.3
47.5°	594.8	557.8	526.7	487.9	466.5	449.0	425.7	412.1	394.6	384.9	379.0
50°	544.3	503.4	468.4	423.7	402.4	383.0	355.7	334.3	318.8	303.3	299.4
52.5°	499.5	456.8	417.9	367.3	342.1	318.8	289.6	266.3	252.7	235.2	233.2
55°	447.0	410.2	367.3	314.9	289.6	266.3	235.2	211.9	194.4	182.7	178.8
57.5°	390.7	355.7	314.9	262.4	237.1	211.9	182.7	161.3	145.8	136.1	134.1
60°	338.2	305.2	266.3	213.8	188.5	167.2	136.1	114.7	101.1	93.3	89.4
62.5°	299.4	268.2	231.3	182.7	159.4	138.0	108.9	89.4	77.7	69.9	66.1
65°	262.4	231.3	198.3	153.5	134.1	114.7	87.5	69.9	58.3	50.5	46.6
67.5°	223.6	196.4	165.2	128.3	108.9	93.3	69.9	54.4	44.7	38.9	35.0
70°	184.6	159.4	134.1	103.0	89.4	73.8	54.4	42.7	33.1	29.2	25.3
72.5°	145.8	126.3	105.0	79.7	68.0	58.3	42.7	31.1	25.3	21.4	17.5
75°	108.9	95.2	77.7	60.3	50.5	42.7	31.1	23.3	19.4	15.5	13.6
77.5°	77.7	66.1	54.4	40.8	37.0	31.1	21.4	17.5	13.6	9.8	7.8
80°	52.5	46.6	37.0	29.2	23.3	21.4	15.5	11.7	7.8	5.9	5.9
82.5°	35.0	29.2	23.3	17.5	15.5	13.6	9.8	7.8	5.9	3.9	3.9
85°	21.4	17.5	13.6	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: P857563

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1527.8	1516.1	1508.4	1518.0	1521.9	1516.1	1521.9	1531.7	1541.4	1543.3	1516.1
5°	1529.8	1518.0	1514.2	1525.8	1527.8	1525.8	1531.7	1545.3	1557.0	1560.9	1533.7
7.5°	1529.8	1521.9	1520.0	1533.7	1535.6	1533.7	1543.3	1558.9	1570.5	1578.3	1551.1
10°	1525.8	1521.9	1523.9	1535.6	1539.5	1539.5	1553.1	1570.5	1582.2	1590.0	1562.8
12.5°	1520.0	1520.0	1520.0	1533.7	1537.5	1539.5	1551.1	1574.4	1582.2	1593.9	1566.7
15°	1510.3	1510.3	1510.3	1523.9	1529.8	1529.8	1543.3	1564.7	1574.4	1586.1	1558.9
17.5°	1492.8	1492.8	1494.7	1506.4	1512.2	1512.2	1525.8	1549.2	1555.0	1568.6	1541.4
20°	1467.5	1467.5	1469.5	1481.2	1487.0	1483.1	1500.6	1520.0	1525.8	1537.5	1510.3
22.5°	1430.6	1430.6	1430.6	1442.3	1446.2	1444.2	1461.7	1479.2	1479.2	1494.7	1465.6
25°	1376.2	1380.1	1376.2	1387.8	1391.7	1389.8	1405.3	1420.9	1417.0	1434.5	1405.3
27.5°	1310.1	1308.1	1308.1	1317.9	1317.9	1315.9	1327.6	1345.1	1341.2	1352.8	1325.6
30°	1218.7	1224.5	1214.9	1228.4	1222.6	1218.7	1226.5	1242.1	1236.2	1245.9	1224.5
32.5°	1113.7	1106.0	1106.0	1106.0	1109.9	1100.2	1108.0	1115.7	1109.9	1119.6	1096.3
35°	975.8	977.7	971.9	973.9	975.8	964.1	971.9	979.6	971.9	977.7	956.3
37.5°	837.8	839.7	826.1	833.9	826.1	822.2	830.0	833.9	826.1	831.9	808.6
40°	699.8	695.9	693.9	693.9	695.9	686.1	692.0	697.8	692.0	695.9	674.5
42.5°	579.2	577.3	573.4	575.4	569.5	567.6	569.5	575.4	569.5	573.4	557.8
45°	474.2	470.4	464.6	466.5	466.5	456.8	462.6	466.5	460.7	462.6	449.0
47.5°	377.1	371.2	371.2	369.3	369.3	365.4	371.2	369.3	363.5	367.3	353.8
50°	293.5	289.6	289.6	289.6	289.6	283.8	285.7	289.6	283.8	283.8	276.0
52.5°	229.3	223.6	219.7	219.7	219.7	217.7	217.7	219.7	213.8	213.8	211.9
55°	173.0	171.1	165.2	165.2	165.2	159.4	161.3	161.3	159.4	159.4	153.5
57.5°	128.3	122.4	118.6	118.6	114.7	114.7	112.8	114.7	110.8	110.8	106.9
60°	85.5	81.6	79.7	77.7	77.7	75.8	77.7	75.8	75.8	73.8	71.9
62.5°	62.2	58.3	54.4	54.4	54.4	52.5	52.5	52.5	52.5	52.5	50.5
65°	44.7	40.8	40.8	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°	23.3	21.4	19.4	19.4	19.4	19.4	19.4	17.5	19.4	19.4	17.5
72.5°	15.5	15.5	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
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: P857563

CATALOG NUMBER: LX4C30D010 EX4C309035 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1545.3	1543.3	1539.5	1545.3	1529.8	1523.9	1521.9	1539.5
5°	1566.7	1562.8	1562.8	1568.6	1551.1	1547.2	1543.3	1562.8
7.5°	1586.1	1582.2	1582.2	1588.1	1572.5	1568.6	1564.7	1584.2
10°	1597.7	1597.7	1597.7	1601.6	1588.1	1584.2	1582.2	1601.6
12.5°	1603.6	1603.6	1601.6	1609.4	1591.9	1591.9	1588.1	1607.5
15°	1595.8	1595.8	1595.8	1601.6	1586.1	1582.2	1582.2	1597.7
17.5°	1576.4	1576.4	1574.4	1580.3	1562.8	1562.8	1560.9	1578.3
20°	1547.2	1547.2	1543.3	1551.1	1533.7	1527.8	1525.8	1543.3
22.5°	1500.6	1498.6	1496.7	1500.6	1485.0	1481.2	1479.2	1494.7
25°	1440.3	1438.4	1434.5	1438.4	1420.9	1415.0	1415.0	1426.7
27.5°	1354.8	1354.8	1349.0	1354.8	1335.3	1333.4	1331.4	1345.1
30°	1249.8	1242.1	1238.2	1245.9	1226.5	1226.5	1222.6	1236.2
32.5°	1119.6	1111.8	1109.9	1113.7	1096.3	1090.4	1098.2	1106.0
35°	970.0	971.9	964.1	964.1	948.6	950.5	952.4	964.1
37.5°	826.1	822.2	820.2	822.2	810.6	806.7	802.8	814.5
40°	692.0	682.3	680.3	680.3	670.6	668.7	670.6	676.5
42.5°	565.6	563.7	555.9	559.8	550.1	553.9	552.0	552.0
45°	456.8	458.7	450.9	456.8	449.0	443.2	443.2	447.0
47.5°	361.5	361.5	359.6	359.6	353.8	355.7	351.8	357.7
50°	279.9	279.9	276.0	278.0	274.1	274.1	272.1	274.1
52.5°	213.8	211.9	211.9	209.9	206.0	208.0	209.9	206.0
55°	155.5	157.4	153.5	155.5	151.6	153.5	151.6	153.5
57.5°	106.9	108.9	105.0	108.9	105.0	106.9	105.0	105.0
60°	73.8	73.8	71.9	73.8	71.9	71.9	69.9	73.8
62.5°	50.5	50.5	50.5	50.5	50.5	48.6	50.5	50.5
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°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
72.5°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
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)