

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: P857755

Luminaire Tested: **LX4C35D010 EX4C359035 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C35D010 EX4C359035 4LBLWW*
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

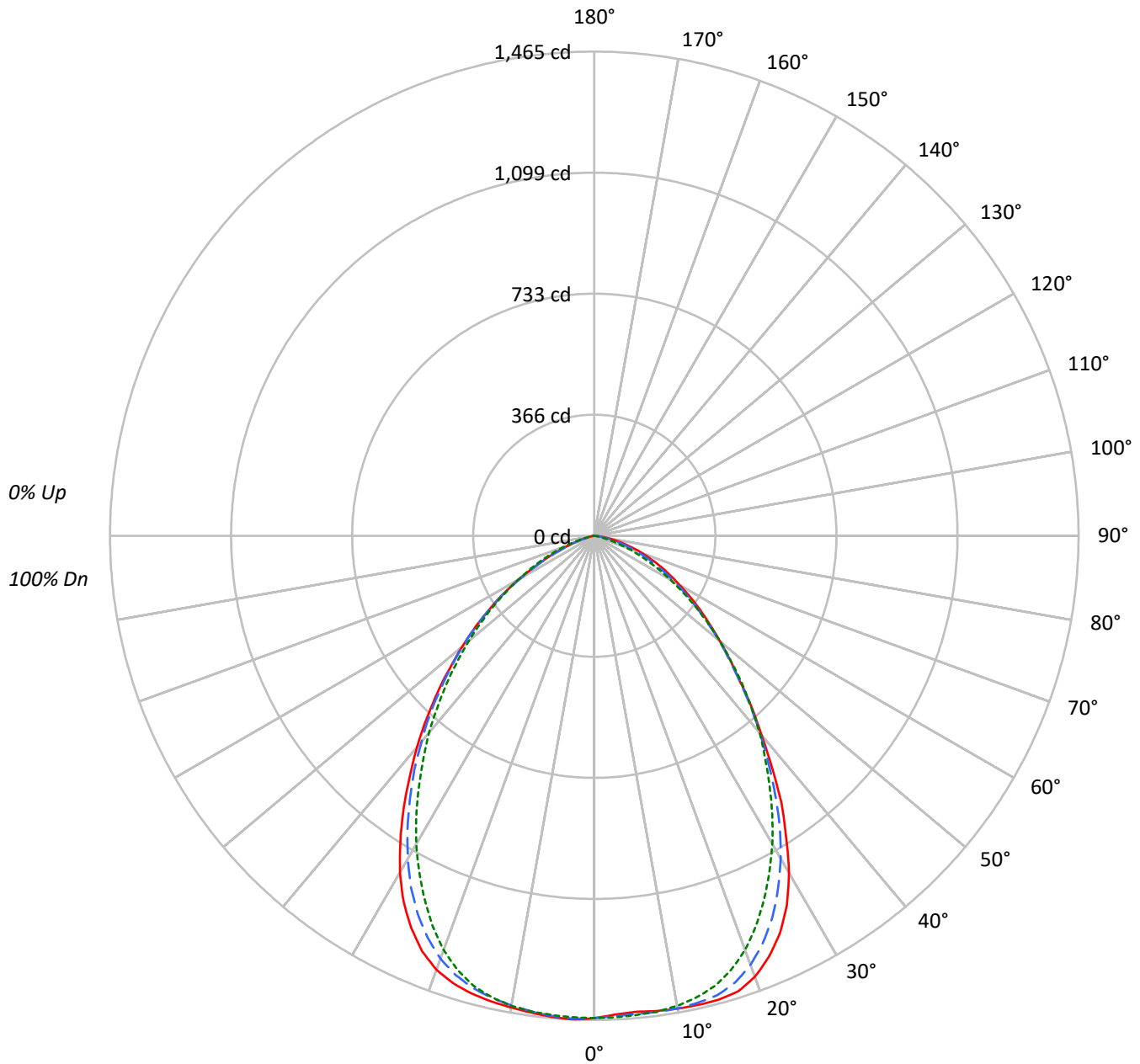
Lumens per Lamp: N/A
Luminaire Lumens: 2798.0 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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		109	105	102	99		101	99	96		97	95	93		94	92	91
2	103	96	91	86		101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	74		93	85	79	74		82	77	72		80	75	71		77	73	70
4	88	78	71	65		86	77	70	65		75	69	64		72	67	63		70	66	62
5	82	71	63	57		80	70	63	57		68	61	57		66	60	56		64	59	55
6	76	65	57	51		75	64	56	51		62	56	51		61	55	50		59	54	50
7	71	59	51	46		70	59	51	46		57	50	46		56	50	45		54	49	45
8	67	55	47	42		65	54	47	42		53	46	41		52	46	41		50	45	41
9	63	51	43	38		61	50	43	38		49	42	38		48	42	38		47	41	37
10	59	47	40	35		58	46	39	35		45	39	35		45	39	35		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	179292	179292	179292
5°	178288	179509	180187
10°	181247	180150	180836
15°	184790	179347	182348
20°	185713	174326	182641
25°	180002	164630	177548
30°	167067	152768	166755
35°	147952	138578	150741
40°	126118	124803	133688
45°	108362	109596	116459
50°	94588	94799	99825
55°	83576	80064	82762
60°	73245	65309	65039
65°	64854	50668	45087
70°	55317	34842	26760
75°	44761	18749	12246
80°	30634	4669	3113
85°	9303	1551	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	5.0
10°-20°	401.5	14.4
20°-30°	580.2	20.7
30°-40°	599.8	21.4
40°-50°	495.6	17.7
50°-60°	342.0	12.2
60°-70°	179.1	6.4
70°-80°	56.4	2.0
80°-90°	4.8	0.2
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°	1120.4	40.0
0°-40°	1720.2	61.5
0°-60°	2557.8	91.4
0°-90°	2798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2798.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1459	1459	1459	1459	1459	
5°	1446	1453	1456	1458	1461	138
15°	1453	1439	1410	1417	1434	410
25°	1328	1274	1214	1263	1310	606
35°	986	954	924	972	1005	612
45°	624	621	631	660	670	486
55°	390	378	374	384	386	351
65°	223	202	174	145	155	221
75°	94	74	40	27	26	101
85°	7	3	1	1	1	14
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°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1450.1	1450.7	1450.7	1451.8	1451.8	1451.8	1452.3	1452.3	1452.9	1453.4	1454.0
5°	1445.7	1445.7	1446.8	1447.4	1448.5	1449.0	1450.1	1450.7	1451.8	1452.3	1452.9
7.5°	1450.1	1450.1	1450.7	1451.2	1451.2	1451.8	1451.8	1452.3	1452.9	1453.4	1453.4
10°	1452.9	1452.9	1452.9	1452.9	1453.4	1453.4	1453.4	1452.9	1452.9	1452.9	1452.3
12.5°	1454.0	1454.0	1453.4	1452.9	1453.4	1452.9	1452.9	1451.2	1450.1	1449.0	1447.4
15°	1452.9	1452.9	1452.3	1451.8	1451.2	1450.1	1449.6	1446.8	1444.6	1441.3	1439.2
17.5°	1445.7	1444.6	1443.5	1442.4	1440.3	1438.6	1437.5	1432.6	1428.7	1423.3	1417.2
20°	1420.5	1419.4	1417.8	1415.0	1412.3	1410.1	1406.8	1399.7	1395.9	1387.6	1381.6
22.5°	1379.4	1378.3	1378.9	1373.9	1368.5	1365.2	1363.0	1356.9	1350.4	1340.0	1333.4
25°	1327.9	1324.6	1324.6	1316.9	1314.2	1312.0	1309.3	1302.1	1292.3	1283.0	1274.2
27.5°	1261.0	1256.7	1254.5	1253.4	1246.8	1241.9	1238.0	1232.5	1224.3	1216.1	1204.0
30°	1177.7	1177.2	1174.5	1169.5	1164.6	1162.4	1158.0	1148.7	1141.0	1135.0	1127.3
32.5°	1079.6	1079.1	1079.1	1079.1	1075.8	1075.3	1068.7	1063.7	1057.7	1048.4	1043.5
35°	986.5	985.9	986.5	978.3	976.1	974.4	973.9	970.6	962.4	958.0	953.6
37.5°	881.2	882.9	881.8	879.6	882.3	877.4	881.2	874.1	870.8	869.7	864.8
40°	786.4	790.8	786.4	787.0	789.7	784.8	784.8	783.7	781.5	780.4	779.3
42.5°	705.3	699.8	703.1	700.4	703.1	701.5	698.8	700.4	700.9	698.8	698.2
45°	623.7	624.8	625.9	624.2	624.2	622.6	627.0	624.2	624.2	624.8	620.9
47.5°	557.4	555.7	556.8	555.7	556.3	555.2	556.3	556.8	555.7	555.7	552.4
50°	494.9	493.8	497.6	494.3	494.3	493.8	494.3	493.2	491.6	491.6	492.7
52.5°	440.6	438.4	437.9	440.6	436.8	436.8	437.3	436.2	434.0	433.0	430.2
55°	390.2	389.7	390.2	388.0	386.9	386.9	384.2	383.1	382.5	379.8	378.1
57.5°	343.1	341.4	342.0	341.4	339.2	338.7	336.5	336.5	334.3	332.1	329.4
60°	298.1	298.1	299.8	297.6	295.9	294.8	293.7	292.7	288.8	285.0	281.7
62.5°	258.1	258.7	258.1	256.5	255.4	254.3	253.2	249.9	246.6	244.4	240.6
65°	223.1	222.5	220.9	219.8	217.0	217.0	214.8	213.2	209.4	206.1	202.2
67.5°	186.9	185.8	185.8	185.8	182.5	181.9	180.9	177.6	174.3	169.9	166.6
70°	154.0	155.1	153.5	151.8	150.2	149.6	148.0	144.7	140.8	136.5	133.7
72.5°	122.8	123.9	122.2	121.7	118.4	117.3	116.7	114.0	109.6	106.9	102.5
75°	94.3	94.8	93.7	92.6	90.4	89.9	87.1	84.9	82.2	77.8	74.0
77.5°	68.0	66.9	66.9	64.7	62.5	62.5	61.9	58.6	54.8	51.5	48.2
80°	43.3	42.7	41.1	40.0	38.4	37.8	37.3	34.5	31.8	29.6	27.4
82.5°	21.9	21.4	20.8	20.3	19.2	18.1	18.6	16.4	15.3	13.2	11.5
85°	6.6	7.1	7.1	6.6	6.0	6.0	6.0	5.5	4.4	3.8	3.3
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1454.5	1455.0	1455.6	1456.1	1456.1	1456.7	1457.2	1457.8	1458.3	1458.3	1458.9
5°	1453.4	1454.5	1454.5	1455.0	1455.0	1455.0	1455.6	1455.6	1455.6	1455.6	1456.1
7.5°	1454.0	1454.0	1454.0	1453.4	1453.4	1452.9	1452.9	1452.9	1451.8	1451.8	1451.8
10°	1451.2	1450.7	1450.1	1449.0	1448.5	1447.9	1446.8	1445.7	1444.6	1444.1	1443.0
12.5°	1445.7	1443.5	1441.3	1439.2	1438.1	1437.5	1435.3	1433.7	1432.0	1430.4	1429.3
15°	1434.8	1431.5	1427.6	1423.3	1422.2	1421.1	1417.2	1413.9	1411.8	1410.1	1407.4
17.5°	1412.8	1406.3	1401.9	1395.3	1392.6	1391.5	1385.4	1382.2	1378.3	1377.2	1375.0
20°	1373.9	1367.9	1359.7	1353.7	1350.4	1347.1	1342.2	1337.8	1333.4	1333.4	1330.6
22.5°	1325.2	1317.5	1307.1	1299.4	1298.9	1292.3	1287.9	1283.0	1281.3	1278.0	1278.0
25°	1263.8	1257.2	1245.7	1239.1	1235.8	1234.2	1227.1	1220.5	1217.2	1214.5	1216.7
27.5°	1195.8	1186.0	1177.2	1169.0	1166.2	1162.9	1156.4	1153.6	1147.6	1147.0	1146.5
30°	1118.0	1108.1	1099.4	1095.5	1090.1	1087.3	1082.4	1079.1	1076.9	1076.9	1075.8
32.5°	1036.3	1027.6	1023.2	1015.0	1012.2	1008.4	1005.1	1001.8	1002.9	1001.8	1002.4
35°	948.1	945.9	937.7	932.8	932.8	932.2	926.7	924.5	923.4	924.0	926.7
37.5°	864.3	857.7	852.2	848.9	851.7	848.4	847.8	847.8	851.1	848.9	853.3
40°	774.9	774.4	772.2	773.3	773.8	770.0	771.1	771.6	773.8	778.2	778.8
42.5°	697.1	696.6	696.6	696.6	695.5	693.3	695.5	699.3	698.8	702.0	704.8
45°	622.0	620.9	623.1	621.5	624.8	625.9	624.2	625.3	628.6	630.8	635.2
47.5°	553.5	553.5	554.1	555.2	551.9	554.6	555.7	557.9	559.5	560.6	562.8
50°	489.9	489.9	488.9	488.9	488.9	490.5	488.3	491.0	491.6	496.0	498.7
52.5°	431.3	428.6	430.2	429.1	426.9	425.8	426.9	427.5	430.8	431.9	435.1
55°	375.4	375.4	371.0	369.9	371.6	371.0	370.5	370.5	372.1	373.8	376.5
57.5°	326.1	322.8	319.5	319.0	317.3	317.9	317.9	317.3	316.2	316.8	317.3
60°	279.5	277.3	272.4	272.4	271.8	271.3	268.5	268.0	265.3	265.8	263.6
62.5°	236.8	235.7	229.1	226.9	226.9	225.2	222.5	222.0	218.1	218.1	215.9
65°	198.4	195.1	191.3	187.4	187.4	185.2	183.6	178.7	175.9	174.3	171.0
67.5°	163.3	158.4	154.5	151.3	149.1	148.5	144.7	141.4	137.0	134.3	129.3
70°	129.3	125.5	121.7	118.4	116.2	114.0	110.2	105.2	101.9	97.0	93.7
72.5°	97.6	94.3	91.0	86.6	83.9	82.2	78.4	74.0	68.5	65.2	60.8
75°	70.1	66.3	61.9	58.1	56.4	54.8	50.4	47.1	43.3	39.5	35.1
77.5°	45.5	41.1	37.8	33.4	32.9	31.8	27.4	24.1	21.4	19.2	16.4
80°	24.1	21.9	19.2	16.4	15.3	13.7	11.5	9.9	8.2	6.6	5.5
82.5°	10.4	8.8	7.1	6.0	5.5	4.9	3.8	3.3	2.7	2.7	2.2
85°	2.7	2.2	2.2	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5	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°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1459.4	1460.0	1460.5	1460.5	1461.1	1461.6	1461.6	1462.2	1462.7	1463.3	1463.3
5°	1456.7	1456.7	1456.7	1457.2	1457.2	1457.2	1457.2	1458.3	1458.3	1458.9	1459.4
7.5°	1451.2	1451.2	1451.2	1451.2	1450.7	1451.2	1450.7	1450.7	1451.8	1452.3	1452.9
10°	1442.4	1441.9	1441.9	1441.3	1441.3	1441.3	1441.9	1442.4	1443.0	1443.5	1445.2
12.5°	1428.7	1428.2	1428.2	1427.6	1427.6	1428.2	1428.7	1429.8	1432.0	1433.1	1435.3
15°	1406.8	1406.3	1406.8	1407.4	1408.5	1410.1	1411.8	1413.4	1416.7	1419.4	1422.2
17.5°	1375.0	1375.6	1376.1	1377.2	1378.9	1381.1	1385.4	1389.8	1393.7	1398.1	1402.4
20°	1331.2	1333.4	1333.9	1337.8	1338.9	1343.8	1348.7	1355.3	1361.3	1366.8	1372.8
22.5°	1278.6	1280.2	1282.4	1286.8	1289.5	1296.1	1302.1	1309.8	1316.4	1323.5	1332.3
25°	1218.8	1219.4	1226.0	1226.0	1232.5	1238.0	1245.1	1253.4	1263.2	1272.6	1278.6
27.5°	1150.9	1153.6	1158.6	1160.8	1165.7	1174.5	1180.5	1190.3	1200.2	1208.4	1215.0
30°	1079.6	1081.8	1090.1	1091.1	1095.0	1102.7	1110.9	1120.2	1127.9	1137.2	1143.2
32.5°	1004.6	1010.6	1015.5	1019.4	1020.5	1032.0	1036.3	1042.9	1051.7	1061.0	1067.0
35°	931.7	934.4	941.5	943.7	947.0	953.6	962.4	967.8	972.2	978.3	985.4
37.5°	854.4	862.6	864.3	870.8	871.9	878.0	882.3	888.9	894.4	899.9	901.0
40°	782.6	785.3	791.4	793.0	794.1	802.3	807.8	809.5	812.2	817.1	823.7
42.5°	709.7	712.5	719.0	717.4	722.3	726.2	728.9	735.5	738.2	739.9	739.9
45°	637.9	639.0	643.4	645.6	648.3	650.5	655.5	658.7	659.8	664.8	666.4
47.5°	569.4	570.5	573.8	577.6	576.5	579.3	584.8	586.4	587.0	590.2	591.9
50°	502.0	504.7	509.1	508.0	511.3	513.0	517.9	519.0	519.0	519.5	520.1
52.5°	439.0	441.2	442.3	443.4	445.0	447.7	449.9	448.8	451.0	453.2	451.6
55°	376.5	378.1	380.9	382.0	382.0	382.5	381.4	386.4	384.2	383.6	384.2
57.5°	319.5	317.3	316.8	319.5	320.6	320.1	318.4	320.6	320.6	319.5	317.9
60°	264.2	262.5	262.0	262.5	260.3	258.7	259.8	258.7	255.9	254.8	255.4
62.5°	213.7	212.1	207.7	207.7	206.6	206.1	201.7	202.2	200.0	196.7	197.8
65°	167.2	162.8	160.6	160.0	156.2	152.9	151.8	148.0	144.7	144.1	144.7
67.5°	125.5	120.6	116.7	115.1	112.9	110.2	106.3	103.0	104.1	103.6	105.8
70°	87.1	83.9	80.0	77.3	78.4	75.1	72.9	72.9	73.4	74.0	75.1
72.5°	58.1	53.7	52.1	50.4	49.3	47.1	48.2	48.2	47.7	48.2	47.1
75°	32.9	30.7	29.0	28.5	27.4	27.4	27.4	27.4	26.9	26.3	26.3
77.5°	14.8	13.7	13.2	12.6	12.6	12.6	12.1	11.5	11.5	11.5	11.0
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	2.2	2.2	2.7	2.7	2.7	2.2	2.7	2.7	2.2	2.2	2.7
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.5	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: P857755

CATALOG NUMBER: LX4C35D010 EX4C359035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1463.8	1464.4	1464.4	1464.4	1464.9	1464.9	1464.9	1464.9
5°	1460.0	1460.5	1460.5	1460.5	1461.1	1461.1	1461.1	1461.1
7.5°	1453.4	1454.0	1454.0	1454.5	1454.5	1455.0	1455.0	1455.6
10°	1445.7	1446.8	1447.4	1447.9	1448.5	1449.0	1449.0	1449.6
12.5°	1437.5	1438.6	1439.2	1440.3	1441.3	1441.9	1442.4	1443.0
15°	1425.5	1427.6	1428.7	1429.3	1431.5	1432.6	1433.1	1433.7
17.5°	1406.3	1410.7	1412.3	1413.4	1415.6	1417.8	1419.4	1420.0
20°	1378.9	1383.8	1386.0	1388.7	1392.0	1394.8	1395.9	1397.0
22.5°	1340.5	1346.0	1349.3	1352.6	1355.3	1358.0	1362.4	1360.8
25°	1285.7	1295.0	1298.9	1300.5	1306.5	1309.8	1312.0	1309.8
27.5°	1224.3	1229.8	1233.1	1236.9	1241.3	1244.6	1245.7	1249.0
30°	1150.3	1159.7	1159.1	1162.9	1168.4	1171.7	1172.8	1175.5
32.5°	1073.6	1078.0	1081.3	1080.7	1082.9	1089.0	1086.8	1091.7
35°	992.0	992.5	998.0	997.4	1001.8	1001.8	1001.8	1005.1
37.5°	904.8	911.4	908.7	915.2	913.0	914.7	914.7	915.8
40°	825.3	827.5	827.5	829.7	831.4	829.7	830.8	833.6
42.5°	743.1	745.3	745.9	744.8	746.4	751.4	747.5	750.8
45°	666.4	668.1	670.3	668.6	671.3	669.7	671.3	670.3
47.5°	594.1	593.5	593.0	597.4	593.5	594.1	596.3	592.4
50°	520.1	523.4	521.2	522.8	523.9	523.9	522.3	522.3
52.5°	454.3	453.8	452.1	453.8	452.7	453.2	454.3	453.2
55°	386.4	388.6	387.5	386.9	387.5	387.5	390.8	386.4
57.5°	319.5	318.4	320.1	323.9	320.1	322.8	324.4	325.0
60°	255.9	255.9	259.2	257.6	260.9	263.6	265.8	264.7
62.5°	195.1	197.8	198.9	199.5	202.8	205.0	205.0	204.4
65°	144.7	148.5	148.5	150.7	151.8	151.8	152.9	155.1
67.5°	106.9	106.9	107.4	108.5	108.0	108.0	109.1	109.6
70°	74.5	73.4	75.1	74.5	74.5	74.0	74.5	74.5
72.5°	47.1	47.1	47.7	47.1	46.0	46.6	46.6	47.7
75°	25.2	26.3	25.2	25.2	25.8	24.7	25.2	25.8
77.5°	10.4	10.4	10.4	10.4	10.4	9.9	9.9	9.9
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.4	4.4
82.5°	2.2	2.7	2.2	2.7	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.5	0.0	0.5	0.0	0.0	0.0	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)