

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: P857814

Luminaire Tested: **LX4C35D010 EX4C359730 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857814
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: LX4C35D010 EX4C359730 4LBLWWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

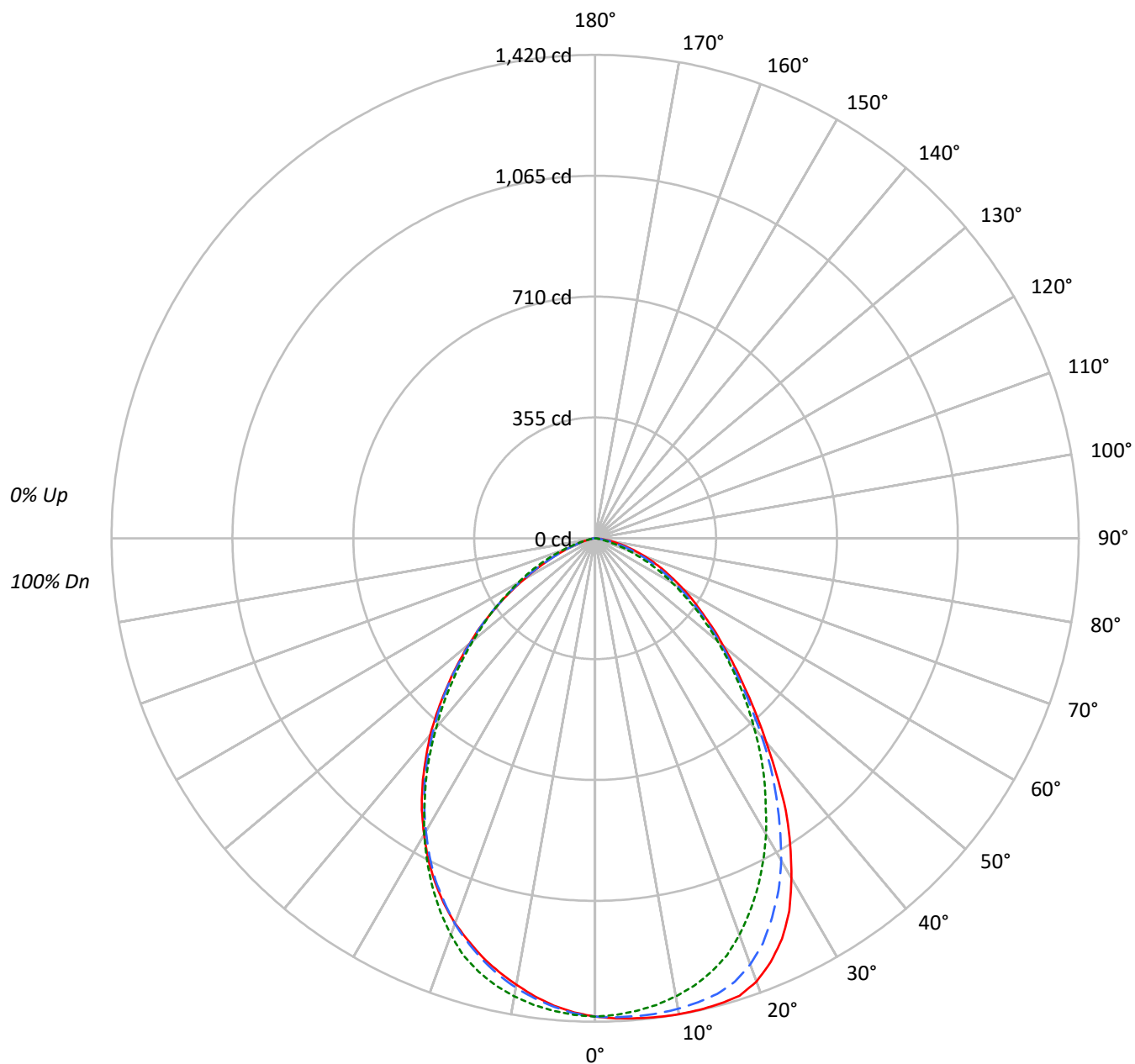
Lumens per Lamp: N/A
Luminaire Lumens: 2648.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P857814

CATALOG NUMBER: LX4C35D010 EX4C359730 4LBLWWH

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°	172621	172621	172621
5°	174551	171875	170013
10°	177106	170432	166115
15°	180021	167709	162151
20°	181150	162010	157343
25°	175962	153257	150912
30°	163521	142441	142512
35°	146377	129850	132594
40°	125316	116399	120649
45°	107876	102629	106469
50°	93786	89351	92027
55°	82527	76851	76165
60°	73442	64130	59093
65°	64418	51366	42732
70°	55317	36315	28916
75°	44904	21028	16946
80°	32120	9197	8419
85°	12122	3806	3806



TEST NUMBER: P857814

CATALOG NUMBER: LX4C35D010 EX4C359730 4LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	5.0
10°-20°	374.8	14.2
20°-30°	535.3	20.2
30°-40°	559.9	21.1
40°-50°	469.2	17.7
50°-60°	328.4	12.4
60°-70°	178.8	6.8
70°-80°	62.1	2.3
80°-90°	7.1	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°	1042.5	39.4
0°-40°	1602.5	60.5
0°-60°	2400.0	90.6
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°	1405	1405	1405	1405	1405	
5°	1415	1409	1394	1382	1379	135
15°	1415	1386	1319	1281	1275	400
25°	1298	1229	1131	1108	1113	593
35°	976	928	866	872	884	605
45°	621	607	591	610	613	483
55°	385	372	359	359	356	348
65°	222	202	177	149	147	221
75°	95	77	44	36	36	102
85°	9	5	3	3	3	16
90°	0	0	0	0	0	



TEST NUMBER: P857814

CATALOG NUMBER: LX4C35D010 EX4C359730 4LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1
2.5°	1411.6	1410.0	1410.5	1410.5	1410.5	1410.0	1410.5	1410.0	1410.0	1409.4	1408.3
5°	1415.4	1414.3	1414.3	1414.3	1413.7	1413.2	1413.2	1412.7	1411.6	1411.0	1408.9
7.5°	1418.1	1417.0	1417.0	1416.4	1415.9	1415.4	1414.8	1413.2	1411.6	1410.5	1407.8
10°	1419.7	1418.1	1418.1	1417.0	1415.9	1415.4	1414.3	1412.1	1410.0	1407.3	1403.5
12.5°	1418.6	1417.0	1416.4	1415.4	1413.2	1412.1	1411.0	1408.3	1404.6	1400.8	1395.9
15°	1415.4	1414.3	1413.2	1411.6	1408.9	1407.3	1406.2	1401.9	1397.0	1391.6	1385.6
17.5°	1408.9	1407.3	1405.1	1402.9	1399.1	1397.5	1394.8	1389.4	1382.4	1374.8	1365.6
20°	1385.6	1384.6	1382.4	1378.6	1372.7	1370.5	1366.7	1359.7	1350.5	1341.3	1331.6
22.5°	1347.3	1345.6	1342.4	1339.2	1333.8	1330.0	1326.7	1317.0	1306.7	1297.0	1287.8
25°	1298.1	1296.5	1292.1	1287.8	1282.4	1275.9	1272.7	1265.1	1254.9	1242.4	1228.9
27.5°	1234.9	1229.5	1227.8	1223.0	1214.9	1212.7	1207.8	1198.1	1188.4	1177.6	1166.2
30°	1152.7	1152.7	1149.5	1147.3	1139.7	1137.6	1132.2	1121.9	1116.5	1101.4	1092.7
32.5°	1065.7	1064.6	1061.9	1060.3	1056.0	1052.2	1046.8	1041.4	1029.5	1021.9	1010.0
35°	976.0	969.5	970.6	967.4	964.7	960.3	959.8	953.8	943.0	938.7	927.9
37.5°	873.9	871.2	874.9	870.1	867.4	867.9	863.6	859.8	855.5	847.9	845.8
40°	781.4	783.6	783.1	778.7	780.9	778.2	773.9	770.1	767.9	763.1	761.5
42.5°	698.8	695.5	694.4	694.4	695.0	695.0	692.8	690.1	690.1	685.3	680.4
45°	620.9	620.9	619.9	623.1	618.2	618.2	616.6	616.1	613.9	612.8	606.9
47.5°	553.9	553.4	552.9	552.3	551.8	551.8	548.5	545.8	545.3	542.0	538.8
50°	490.7	493.9	492.9	490.2	489.1	489.6	487.5	485.8	485.3	479.9	480.4
52.5°	437.7	437.2	438.3	436.7	434.0	434.5	432.3	430.2	428.0	425.3	423.1
55°	385.3	388.0	386.9	385.3	384.8	383.7	382.1	379.4	378.8	372.9	372.3
57.5°	341.5	341.0	339.9	337.2	336.7	335.1	335.1	332.9	329.7	326.4	323.7
60°	298.9	298.9	297.2	296.7	294.5	294.0	293.4	291.3	287.5	284.8	280.5
62.5°	257.8	258.9	257.8	256.2	254.5	252.4	251.3	249.7	246.4	243.7	239.9
65°	221.6	221.0	220.5	218.3	217.8	215.6	215.1	211.8	208.6	206.4	202.1
67.5°	187.0	185.4	185.4	184.3	183.2	181.6	180.5	177.3	173.5	171.3	167.0
70°	154.0	152.9	152.9	152.9	150.2	148.6	148.1	146.5	141.0	138.9	134.6
72.5°	123.8	123.2	122.7	121.1	119.4	119.4	117.3	114.0	111.3	108.6	105.4
75°	94.6	95.7	94.6	92.4	91.9	90.8	89.2	86.5	83.8	80.5	76.7
77.5°	69.2	68.1	67.0	67.0	65.9	63.8	63.2	61.1	57.8	55.7	51.9
80°	45.4	44.9	43.8	42.7	42.2	41.6	41.1	38.9	35.7	34.0	30.8
82.5°	24.9	24.3	24.3	23.8	22.2	22.2	21.6	19.5	17.8	16.8	15.1
85°	8.6	8.6	8.6	8.1	8.1	8.1	7.6	7.0	6.5	5.9	4.9
87.5°	1.1	0.5	1.1	0.5	1.1	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



TEST NUMBER: P857814

CATALOG NUMBER: LX4C35D010 EX4C359730 4LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1
2.5°	1407.3	1406.2	1405.6	1405.1	1404.6	1404.0	1403.5	1402.4	1401.9	1401.3	1400.2
5°	1407.3	1405.1	1404.0	1402.4	1401.3	1400.2	1398.6	1397.0	1395.4	1393.7	1392.1
7.5°	1405.1	1401.9	1399.7	1396.4	1395.4	1393.7	1390.5	1388.3	1385.6	1382.4	1378.6
10°	1399.7	1395.9	1391.6	1387.3	1385.6	1382.9	1378.6	1374.8	1370.5	1366.2	1362.4
12.5°	1391.0	1385.1	1379.7	1373.7	1370.5	1367.8	1361.9	1356.5	1351.1	1346.2	1339.7
15°	1378.1	1371.0	1364.0	1355.9	1352.1	1348.9	1340.2	1333.8	1325.1	1318.6	1312.1
17.5°	1357.0	1346.2	1337.5	1327.3	1321.9	1318.1	1310.5	1300.3	1292.1	1285.1	1277.6
20°	1320.8	1310.5	1298.6	1287.3	1281.3	1276.5	1265.7	1254.9	1246.8	1239.2	1231.1
22.5°	1273.2	1260.3	1251.6	1237.6	1232.7	1226.8	1213.8	1204.1	1194.9	1187.3	1179.7
25°	1215.4	1204.1	1192.2	1179.2	1173.3	1166.2	1155.4	1145.2	1139.2	1130.6	1121.4
27.5°	1148.9	1139.7	1125.2	1113.8	1107.9	1102.5	1092.2	1083.0	1074.4	1068.4	1059.8
30°	1078.7	1067.9	1054.9	1043.0	1039.8	1033.3	1024.1	1017.1	1007.9	1004.1	1000.3
32.5°	1001.4	989.0	979.2	971.7	965.2	959.8	954.9	943.6	942.0	932.2	931.1
35°	917.1	911.7	902.5	896.0	890.6	886.8	878.7	873.3	867.4	865.8	862.0
37.5°	837.7	831.2	822.5	816.6	812.8	812.3	806.3	803.1	798.7	796.6	792.3
40°	754.4	751.7	744.2	743.1	737.1	736.6	733.4	729.6	725.8	725.8	726.3
42.5°	677.7	674.4	671.2	667.4	664.2	664.2	662.6	661.5	660.4	658.8	661.5
45°	605.8	601.5	599.3	595.5	597.2	593.9	592.8	592.8	591.2	590.7	594.5
47.5°	538.8	533.9	531.8	530.7	530.7	531.2	526.4	528.0	527.5	528.5	530.2
50°	477.7	473.4	470.2	470.2	470.7	468.5	466.4	468.0	466.4	467.5	471.2
52.5°	421.0	416.7	415.0	415.0	411.8	411.3	412.3	410.2	410.7	411.3	413.4
55°	368.6	365.9	363.2	360.5	361.0	359.9	357.8	357.2	358.3	358.8	361.5
57.5°	321.6	317.8	314.0	312.9	311.8	311.8	309.1	308.6	309.7	307.0	307.0
60°	276.7	274.5	269.7	268.0	268.0	265.3	263.2	264.3	261.6	261.0	261.6
62.5°	235.1	233.5	230.2	227.0	225.9	224.8	222.1	221.0	220.0	217.8	214.5
65°	198.9	195.1	191.3	189.1	187.5	184.8	183.2	181.0	177.8	176.7	173.5
67.5°	162.7	158.9	155.1	153.5	151.9	150.2	147.5	144.8	141.0	136.7	132.9
70°	130.8	125.9	123.8	119.4	118.4	116.2	112.4	109.7	105.9	101.1	97.3
72.5°	100.0	96.7	93.5	89.7	87.0	85.4	82.1	77.8	73.5	70.8	67.0
75°	71.9	70.3	65.9	61.6	60.5	58.4	54.6	51.9	48.6	44.3	41.1
77.5°	48.6	45.4	42.7	38.9	37.8	35.7	33.5	30.8	28.6	25.9	23.8
80°	28.6	25.9	24.3	21.6	20.5	19.5	17.8	15.7	14.1	13.0	12.4
82.5°	14.1	11.9	11.3	9.7	9.2	8.6	7.6	7.0	5.9	5.9	5.9
85°	4.9	3.8	3.8	3.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	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: P857814

CATALOG NUMBER: LX4C35D010 EX4C359730 4LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1
2.5°	1399.7	1399.1	1398.6	1398.1	1398.1	1397.5	1397.5	1397.0	1397.0	1396.4	1396.4
5°	1390.0	1388.3	1387.3	1386.2	1386.2	1384.6	1383.5	1382.4	1381.9	1381.9	1380.8
7.5°	1376.5	1374.3	1372.1	1370.5	1370.0	1367.3	1365.1	1365.1	1362.9	1361.9	1360.8
10°	1358.6	1354.8	1351.6	1350.0	1347.8	1346.2	1343.5	1341.9	1340.2	1337.5	1337.0
12.5°	1334.3	1331.6	1326.7	1324.6	1323.5	1320.2	1315.9	1313.8	1313.2	1311.1	1309.4
15°	1306.7	1300.8	1296.5	1293.8	1293.8	1288.4	1286.2	1283.0	1280.8	1279.2	1278.6
17.5°	1271.1	1265.1	1260.8	1257.0	1255.9	1251.6	1248.4	1247.3	1244.6	1245.7	1243.0
20°	1225.1	1220.3	1217.0	1212.2	1212.2	1209.5	1208.4	1205.7	1204.6	1203.5	1204.6
22.5°	1176.0	1170.0	1164.6	1164.1	1164.1	1160.3	1159.7	1159.2	1157.0	1158.7	1158.1
25°	1118.1	1113.8	1110.6	1110.0	1110.0	1107.9	1105.7	1106.8	1108.4	1107.9	1109.5
27.5°	1058.1	1053.8	1052.7	1052.2	1051.1	1050.6	1051.7	1051.7	1053.3	1055.4	1057.6
30°	993.3	992.2	990.6	990.1	989.0	991.7	992.8	994.4	993.8	997.1	999.2
32.5°	928.4	926.3	925.7	926.8	928.4	927.9	931.1	932.2	933.3	937.1	938.7
35°	863.1	862.5	861.4	861.4	862.0	866.3	866.3	870.1	872.2	873.3	877.6
37.5°	792.8	795.0	796.0	797.7	798.2	799.8	800.9	804.7	806.8	809.0	811.2
40°	728.5	727.4	732.3	729.0	730.1	735.0	737.1	736.6	739.8	743.1	745.2
42.5°	659.9	661.5	662.6	663.6	666.3	666.9	669.6	673.4	674.4	678.2	679.3
45°	593.4	593.9	596.1	598.2	599.9	604.2	605.3	606.9	610.1	610.1	611.8
47.5°	530.7	532.9	532.9	536.1	538.8	538.3	542.0	543.1	542.6	545.3	546.4
50°	470.7	473.9	473.4	475.6	476.7	477.2	480.4	481.5	479.4	482.1	482.6
52.5°	413.4	415.0	417.2	417.7	416.7	419.4	418.3	420.4	419.9	422.1	419.9
55°	361.0	360.5	360.5	361.5	360.5	361.5	362.6	360.5	358.8	361.0	360.5
57.5°	308.6	308.6	307.5	309.1	307.5	305.9	305.3	303.7	302.1	302.1	301.6
60°	259.4	258.3	256.2	255.6	255.6	252.9	251.8	249.7	249.7	247.5	245.4
62.5°	213.5	210.8	209.1	209.1	208.1	205.4	200.5	197.3	196.2	192.9	192.4
65°	170.2	167.5	165.9	162.7	160.0	158.9	154.0	150.2	148.6	145.4	145.9
67.5°	130.8	126.5	121.6	119.4	117.8	114.0	112.4	109.7	108.1	108.1	108.1
70°	94.0	90.3	85.4	83.8	82.7	79.4	77.8	77.3	78.9	78.4	78.9
72.5°	63.2	59.4	57.3	56.2	55.1	53.5	54.6	55.1	54.0	54.6	55.1
75°	38.4	37.3	35.7	35.1	35.1	35.7	35.1	35.1	35.7	35.7	36.2
77.5°	22.2	21.1	21.1	20.5	21.6	21.1	21.1	21.1	21.6	21.6	21.6
80°	11.9	11.9	11.9	11.9	12.4	11.9	12.4	12.4	12.4	12.4	12.4
82.5°	5.9	5.9	5.9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.9
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	0.5	1.1	1.1	1.1	1.1	1.1	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: P857814

CATALOG NUMBER: LX4C35D010 EX4C359730 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1	1405.1
2.5°	1395.4	1395.4	1395.4	1394.3	1394.8	1394.8	1394.3	1394.3
5°	1380.2	1379.7	1378.6	1378.6	1377.5	1378.6	1378.1	1378.6
7.5°	1359.7	1359.7	1358.1	1358.1	1357.5	1357.0	1356.5	1357.0
10°	1335.4	1335.4	1334.3	1333.8	1334.3	1332.1	1332.1	1331.6
12.5°	1308.4	1307.3	1306.2	1306.7	1306.2	1304.6	1304.0	1304.6
15°	1277.0	1275.4	1275.9	1274.3	1274.3	1273.8	1274.9	1274.9
17.5°	1242.4	1241.3	1240.3	1240.8	1239.7	1240.3	1239.7	1239.2
20°	1204.1	1203.5	1203.5	1201.4	1201.9	1201.4	1201.9	1203.5
22.5°	1159.7	1159.2	1159.7	1158.1	1159.2	1159.2	1160.8	1160.8
25°	1111.1	1110.6	1111.6	1112.2	1112.7	1114.3	1112.7	1113.3
27.5°	1057.1	1058.7	1060.3	1060.8	1063.0	1061.4	1060.3	1061.9
30°	1002.5	1002.5	1001.9	1004.1	1005.7	1007.3	1004.6	1004.6
32.5°	939.8	942.5	942.5	943.0	944.7	944.7	944.7	946.8
35°	879.8	881.4	882.0	879.8	880.9	880.3	884.1	884.1
37.5°	812.8	812.8	813.3	817.1	817.1	815.5	816.6	816.6
40°	749.0	749.6	747.4	748.5	751.2	750.1	751.2	752.3
42.5°	679.3	683.1	680.9	682.0	681.5	682.0	682.6	682.6
45°	612.8	613.9	613.9	614.5	615.5	616.6	613.4	612.8
47.5°	548.0	548.5	550.1	547.4	550.7	547.4	550.7	546.9
50°	482.6	484.8	483.1	484.2	482.6	482.6	482.1	481.5
52.5°	420.4	419.9	419.9	419.4	419.4	420.4	419.4	421.0
55°	358.3	358.8	357.8	357.2	356.7	358.3	356.7	355.6
57.5°	299.4	300.5	298.3	299.4	295.6	297.2	297.8	298.3
60°	244.8	243.2	243.2	241.0	241.0	242.6	240.5	240.5
62.5°	189.7	190.8	189.1	191.3	191.3	193.5	192.4	193.5
65°	145.4	145.9	146.5	146.5	146.5	149.7	148.6	147.0
67.5°	109.7	110.2	110.8	110.2	111.9	110.8	110.8	111.3
70°	79.4	80.0	80.5	80.5	80.0	80.5	80.5	80.5
72.5°	55.1	55.7	55.1	55.7	56.2	55.7	55.7	56.2
75°	36.2	36.2	35.7	35.7	35.7	35.7	36.2	35.7
77.5°	21.1	21.6	21.1	21.6	21.6	21.6	21.6	21.6
80°	12.4	12.4	12.4	11.9	12.4	12.4	12.4	11.9
82.5°	6.5	6.5	5.9	5.9	6.5	6.5	6.5	6.5
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)