

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: P857813

Luminaire Tested: **LX4C35D010 EX4C359730 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857813
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 EX4C359730 4LBLWW*
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

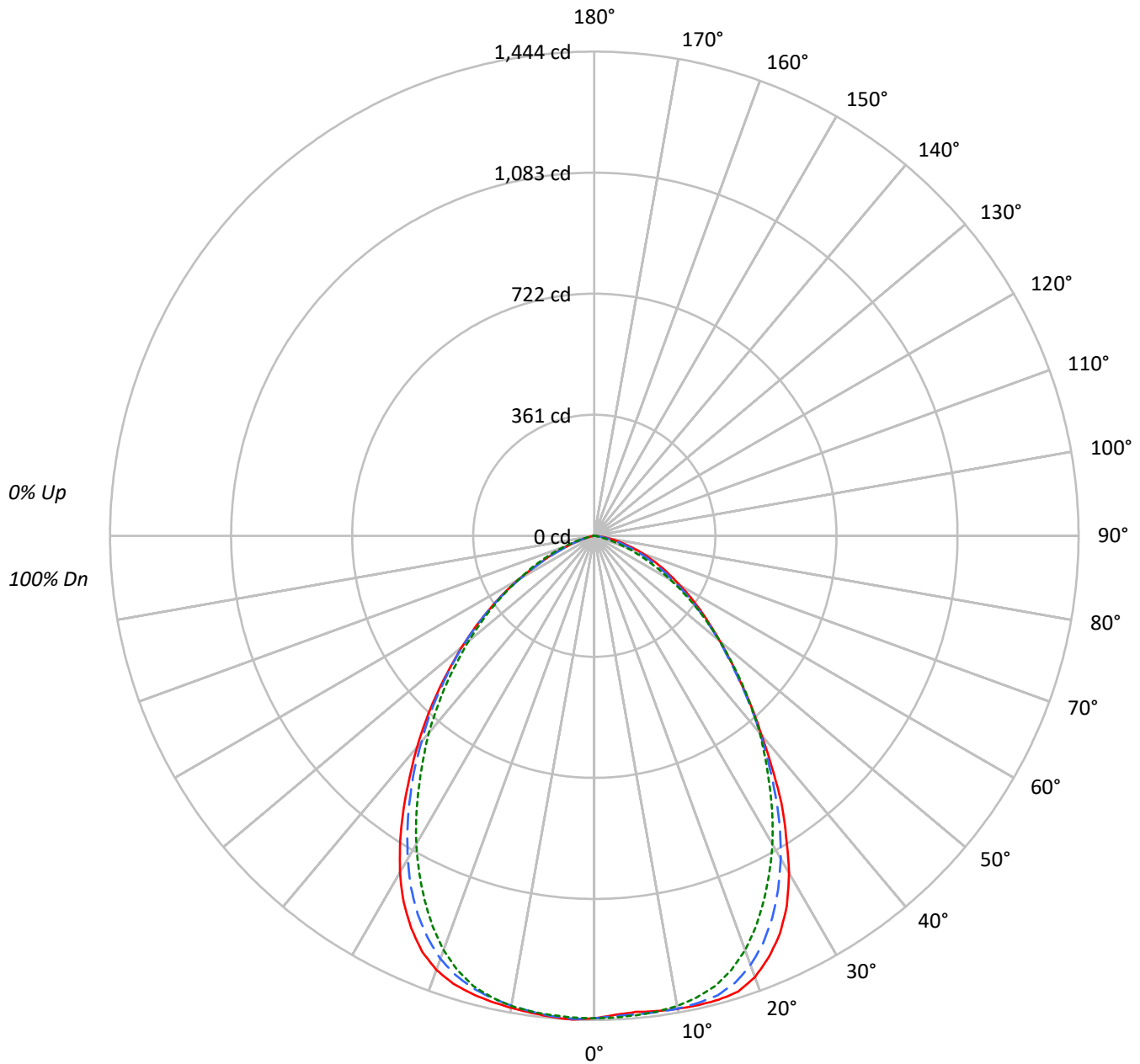
Lumens per Lamp: N/A
Luminaire Lumens: 2759.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94
2	103	96	91	86	101	95	89	85	91	87	83		88	84	81		85
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77
4	88	78	71	65	86	77	70	65	75	69	64		72	67	63		70
5	82	71	63	57	80	70	63	57	68	61	57		66	60	56		64
6	76	65	57	51	75	64	56	51	62	56	51		61	55	50		59
7	71	59	51	46	70	59	51	46	57	50	46		56	50	45		54
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		50
9	63	51	43	38	61	50	43	38	49	42	38		48	42	38		47
10	59	47	40	35	58	46	39	35	45	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	176798	176798	176798
5°	175809	177005	177671
10°	178715	177642	178316
15°	182208	176854	179805
20°	183125	171894	180092
25°	177494	162326	175081
30°	164741	150640	164443
35°	145882	136643	148642
40°	124370	123071	131827
45°	106851	108067	114825
50°	93270	93480	98430
55°	82420	78950	81606
60°	72238	64400	64130
65°	63924	49942	44447
70°	54562	34375	26401
75°	44097	18465	12057
80°	30210	4599	3042
85°	9162	1551	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	5.0
10°-20°	395.9	14.4
20°-30°	572.1	20.7
30°-40°	591.4	21.4
40°-50°	488.7	17.7
50°-60°	337.3	12.2
60°-70°	176.6	6.4
70°-80°	55.6	2.0
80°-90°	4.7	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°	1104.8	40.0
0°-40°	1696.2	61.5
0°-60°	2522.1	91.4
0°-90°	2759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2759.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1439	1439	1439	1439	1439	
5°	1426	1433	1435	1438	1441	136
15°	1433	1419	1390	1397	1414	404
25°	1309	1256	1198	1246	1292	598
35°	973	940	911	959	991	604
45°	615	612	622	651	661	479
55°	385	373	369	379	381	346
65°	220	199	172	143	153	218
75°	93	73	39	26	25	100
85°	6	3	1	1	1	13
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°	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1429.9	1430.4	1430.4	1431.5	1431.5	1431.5	1432.1	1432.1	1432.6	1433.1	1433.7
5°	1425.6	1425.6	1426.7	1427.2	1428.3	1428.8	1429.9	1430.4	1431.5	1432.1	1432.6
7.5°	1429.9	1429.9	1430.4	1431.0	1431.0	1431.5	1431.5	1432.1	1432.6	1433.1	1433.1
10°	1432.6	1432.6	1432.6	1432.6	1433.1	1433.1	1433.1	1432.6	1432.6	1432.6	1432.1
12.5°	1433.7	1433.7	1433.1	1432.6	1433.1	1432.6	1432.6	1431.0	1429.9	1428.8	1427.2
15°	1432.6	1432.6	1432.1	1431.5	1431.0	1429.9	1429.4	1426.7	1424.5	1421.3	1419.1
17.5°	1425.6	1424.5	1423.4	1422.3	1420.2	1418.6	1417.5	1412.6	1408.8	1403.4	1397.5
20°	1400.7	1399.6	1398.0	1395.3	1392.6	1390.5	1387.2	1380.2	1376.4	1368.3	1362.4
22.5°	1360.2	1359.1	1359.7	1354.8	1349.4	1346.1	1344.0	1338.0	1331.6	1321.3	1314.8
25°	1309.4	1306.2	1306.2	1298.6	1295.9	1293.7	1291.0	1284.0	1274.3	1265.1	1256.4
27.5°	1243.5	1239.1	1237.0	1235.9	1229.4	1224.6	1220.8	1215.4	1207.3	1199.2	1187.3
30°	1161.3	1160.8	1158.1	1153.2	1148.4	1146.2	1141.9	1132.7	1125.1	1119.2	1111.6
32.5°	1064.6	1064.1	1064.1	1064.1	1060.8	1060.3	1053.8	1048.9	1043.0	1033.8	1028.9
35°	972.7	972.2	972.7	964.6	962.5	960.8	960.3	957.1	948.9	944.6	940.3
37.5°	869.0	870.6	869.5	867.3	870.0	865.2	869.0	861.9	858.7	857.6	852.8
40°	775.5	779.8	775.5	776.0	778.7	773.9	773.9	772.8	770.6	769.5	768.5
42.5°	695.5	690.1	693.3	690.6	693.3	691.7	689.0	690.6	691.2	689.0	688.5
45°	615.0	616.1	617.1	615.5	615.5	613.9	618.2	615.5	615.5	616.1	612.3
47.5°	549.6	548.0	549.0	548.0	548.5	547.4	548.5	549.0	548.0	548.0	544.7
50°	488.0	486.9	490.7	487.4	487.4	486.9	487.4	486.4	484.7	484.7	485.8
52.5°	434.5	432.3	431.8	434.5	430.7	430.7	431.2	430.2	428.0	426.9	424.2
55°	384.8	384.2	384.8	382.6	381.5	381.5	378.8	377.7	377.2	374.5	372.9
57.5°	338.3	336.7	337.2	336.7	334.5	334.0	331.8	331.8	329.6	327.5	324.8
60°	294.0	294.0	295.6	293.4	291.8	290.7	289.7	288.6	284.8	281.0	277.8
62.5°	254.5	255.1	254.5	252.9	251.8	250.7	249.7	246.4	243.2	241.0	237.2
65°	219.9	219.4	217.8	216.7	214.0	214.0	211.8	210.2	206.4	203.2	199.4
67.5°	184.3	183.2	183.2	183.2	180.0	179.4	178.3	175.1	171.8	167.5	164.3
70°	151.9	152.9	151.3	149.7	148.1	147.5	145.9	142.7	138.9	134.6	131.9
72.5°	121.1	122.1	120.5	120.0	116.7	115.6	115.1	112.4	108.1	105.4	101.1
75°	92.9	93.5	92.4	91.3	89.2	88.6	85.9	83.8	81.1	76.7	73.0
77.5°	67.0	65.9	65.9	63.8	61.6	61.6	61.1	57.8	54.0	50.8	47.6
80°	42.7	42.2	40.5	39.4	37.8	37.3	36.7	34.0	31.3	29.2	27.0
82.5°	21.6	21.1	20.5	20.0	18.9	17.8	18.4	16.2	15.1	13.0	11.3
85°	6.5	7.0	7.0	6.5	5.9	5.9	5.9	5.4	4.3	3.8	3.2
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°	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1434.2	1434.8	1435.3	1435.8	1435.8	1436.4	1436.9	1437.5	1438.0	1438.0	1438.5
5°	1433.1	1434.2	1434.2	1434.8	1434.8	1434.8	1435.3	1435.3	1435.3	1435.3	1435.8
7.5°	1433.7	1433.7	1433.7	1433.1	1433.1	1432.6	1432.6	1432.6	1431.5	1431.5	1431.5
10°	1431.0	1430.4	1429.9	1428.8	1428.3	1427.7	1426.7	1425.6	1424.5	1424.0	1422.9
12.5°	1425.6	1423.4	1421.3	1419.1	1418.0	1417.5	1415.3	1413.7	1412.1	1410.4	1409.4
15°	1414.8	1411.5	1407.7	1403.4	1402.3	1401.3	1397.5	1394.2	1392.1	1390.5	1387.8
17.5°	1393.2	1386.7	1382.3	1375.9	1373.2	1372.1	1366.1	1362.9	1359.1	1358.0	1355.9
20°	1354.8	1348.8	1340.7	1334.8	1331.6	1328.3	1323.4	1319.1	1314.8	1314.8	1312.1
22.5°	1306.7	1299.1	1288.9	1281.3	1280.8	1274.3	1269.9	1265.1	1263.5	1260.2	1260.2
25°	1246.2	1239.7	1228.3	1221.8	1218.6	1217.0	1210.0	1203.5	1200.2	1197.5	1199.7
27.5°	1179.2	1169.4	1160.8	1152.7	1150.0	1146.7	1140.2	1137.5	1131.6	1131.1	1130.5
30°	1102.4	1092.7	1084.0	1080.3	1074.9	1072.2	1067.3	1064.1	1061.9	1061.9	1060.8
32.5°	1021.9	1013.3	1008.9	1000.8	998.1	994.3	991.1	987.9	988.9	987.9	988.4
35°	934.9	932.7	924.6	919.8	919.8	919.2	913.8	911.7	910.6	911.1	913.8
37.5°	852.2	845.7	840.3	837.1	839.8	836.5	836.0	836.0	839.2	837.1	841.4
40°	764.1	763.6	761.4	762.5	763.0	759.3	760.3	760.9	763.0	767.4	767.9
42.5°	687.4	686.9	686.9	686.9	685.8	683.6	685.8	689.6	689.0	692.3	695.0
45°	613.4	612.3	614.4	612.8	616.1	617.1	615.5	616.6	619.8	622.0	626.3
47.5°	545.8	545.8	546.3	547.4	544.2	546.9	548.0	550.1	551.8	552.8	555.0
50°	483.1	483.1	482.0	482.0	482.0	483.7	481.5	484.2	484.7	489.1	491.8
52.5°	425.3	422.6	424.2	423.1	421.0	419.9	421.0	421.5	424.8	425.8	429.1
55°	370.2	370.2	365.9	364.8	366.4	365.9	365.3	365.3	366.9	368.6	371.3
57.5°	321.5	318.3	315.1	314.5	312.9	313.4	313.4	312.9	311.8	312.4	312.9
60°	275.6	273.4	268.6	268.6	268.0	267.5	264.8	264.3	261.6	262.1	259.9
62.5°	233.5	232.4	225.9	223.7	223.7	222.1	219.4	218.9	215.1	215.1	212.9
65°	195.6	192.4	188.6	184.8	184.8	182.7	181.0	176.2	173.5	171.8	168.6
67.5°	161.0	156.2	152.4	149.2	147.0	146.4	142.7	139.4	135.1	132.4	127.5
70°	127.5	123.8	120.0	116.7	114.6	112.4	108.6	103.8	100.5	95.7	92.4
72.5°	96.2	92.9	89.7	85.4	82.7	81.1	77.3	73.0	67.6	64.3	60.0
75°	69.2	65.4	61.1	57.3	55.7	54.0	49.7	46.5	42.7	38.9	34.6
77.5°	44.9	40.5	37.3	33.0	32.4	31.3	27.0	23.8	21.1	18.9	16.2
80°	23.8	21.6	18.9	16.2	15.1	13.5	11.3	9.7	8.1	6.5	5.4
82.5°	10.3	8.6	7.0	5.9	5.4	4.9	3.8	3.2	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°	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1439.1	1439.6	1440.2	1440.2	1440.7	1441.3	1441.3	1441.8	1442.3	1442.9	1442.9
5°	1436.4	1436.4	1436.4	1436.9	1436.9	1436.9	1436.9	1438.0	1438.0	1438.5	1439.1
7.5°	1431.0	1431.0	1431.0	1431.0	1430.4	1431.0	1430.4	1430.4	1431.5	1432.1	1432.6
10°	1422.3	1421.8	1421.8	1421.3	1421.3	1421.3	1421.8	1422.3	1422.9	1423.4	1425.0
12.5°	1408.8	1408.3	1408.3	1407.7	1407.7	1408.3	1408.8	1409.9	1412.1	1413.2	1415.3
15°	1387.2	1386.7	1387.2	1387.8	1388.8	1390.5	1392.1	1393.7	1396.9	1399.6	1402.3
17.5°	1355.9	1356.4	1356.9	1358.0	1359.7	1361.8	1366.1	1370.5	1374.2	1378.6	1382.9
20°	1312.6	1314.8	1315.3	1319.1	1320.2	1325.1	1329.9	1336.4	1342.4	1347.8	1353.7
22.5°	1260.8	1262.4	1264.5	1268.9	1271.6	1278.1	1284.0	1291.6	1298.0	1305.1	1313.7
25°	1201.9	1202.4	1208.9	1208.9	1215.4	1220.8	1227.8	1235.9	1245.6	1254.8	1260.8
27.5°	1134.8	1137.5	1142.4	1144.6	1149.4	1158.1	1164.0	1173.8	1183.5	1191.6	1198.1
30°	1064.6	1066.8	1074.9	1075.9	1079.7	1087.3	1095.4	1104.6	1112.1	1121.3	1127.3
32.5°	990.6	996.5	1001.4	1005.1	1006.2	1017.6	1021.9	1028.4	1037.0	1046.2	1052.2
35°	918.7	921.4	928.4	930.6	933.8	940.3	948.9	954.3	958.7	964.6	971.6
37.5°	842.5	850.6	852.2	858.7	859.8	865.7	870.0	876.5	881.9	887.3	888.4
40°	771.7	774.4	780.3	782.0	783.0	791.1	796.6	798.2	800.9	805.7	812.2
42.5°	699.8	702.5	709.0	707.4	712.2	716.0	718.7	725.2	727.9	729.5	729.5
45°	629.0	630.1	634.4	636.6	639.3	641.5	646.3	649.6	650.6	655.5	657.1
47.5°	561.5	562.6	565.8	569.6	568.5	571.2	576.6	578.2	578.8	582.0	583.6
50°	495.0	497.7	502.0	501.0	504.2	505.8	510.7	511.8	511.8	512.3	512.8
52.5°	432.9	435.0	436.1	437.2	438.8	441.5	443.7	442.6	444.8	446.9	445.3
55°	371.3	372.9	375.6	376.7	376.7	377.2	376.1	381.0	378.8	378.3	378.8
57.5°	315.1	312.9	312.4	315.1	316.1	315.6	314.0	316.1	316.1	315.1	313.4
60°	260.5	258.9	258.3	258.9	256.7	255.1	256.2	255.1	252.4	251.3	251.8
62.5°	210.8	209.1	204.8	204.8	203.7	203.2	198.9	199.4	197.2	194.0	195.1
65°	164.8	160.5	158.3	157.8	154.0	150.8	149.7	145.9	142.7	142.1	142.7
67.5°	123.8	118.9	115.1	113.5	111.3	108.6	104.8	101.6	102.7	102.1	104.3
70°	85.9	82.7	78.9	76.2	77.3	74.0	71.9	71.9	72.4	73.0	74.0
72.5°	57.3	53.0	51.3	49.7	48.6	46.5	47.6	47.6	47.0	47.6	46.5
75°	32.4	30.3	28.6	28.1	27.0	27.0	27.0	27.0	26.5	25.9	25.9
77.5°	14.6	13.5	13.0	12.4	12.4	12.4	11.9	11.3	11.3	11.3	10.8
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: P857813

CATALOG NUMBER: LX4C35D010 EX4C359730 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1	1439.1
2.5°	1443.4	1444.0	1444.0	1444.0	1444.5	1444.5	1444.5	1444.5
5°	1439.6	1440.2	1440.2	1440.2	1440.7	1440.7	1440.7	1440.7
7.5°	1433.1	1433.7	1433.7	1434.2	1434.2	1434.8	1434.8	1435.3
10°	1425.6	1426.7	1427.2	1427.7	1428.3	1428.8	1428.8	1429.4
12.5°	1417.5	1418.6	1419.1	1420.2	1421.3	1421.8	1422.3	1422.9
15°	1405.6	1407.7	1408.8	1409.4	1411.5	1412.6	1413.2	1413.7
17.5°	1386.7	1391.0	1392.6	1393.7	1395.9	1398.0	1399.6	1400.2
20°	1359.7	1364.5	1366.7	1369.4	1372.6	1375.3	1376.4	1377.5
22.5°	1321.8	1327.2	1330.5	1333.7	1336.4	1339.1	1343.4	1341.8
25°	1267.8	1277.0	1280.8	1282.4	1288.3	1291.6	1293.7	1291.6
27.5°	1207.3	1212.7	1215.9	1219.7	1224.0	1227.3	1228.3	1231.6
30°	1134.3	1143.5	1142.9	1146.7	1152.1	1155.4	1156.5	1159.2
32.5°	1058.6	1063.0	1066.2	1065.7	1067.8	1073.8	1071.6	1076.5
35°	978.1	978.7	984.1	983.5	987.9	987.9	987.9	991.1
37.5°	892.2	898.7	896.0	902.5	900.3	901.9	901.9	903.0
40°	813.8	816.0	816.0	818.2	819.8	818.2	819.2	822.0
42.5°	732.8	734.9	735.5	734.4	736.0	740.9	737.1	740.4
45°	657.1	658.7	660.9	659.3	662.0	660.4	662.0	660.9
47.5°	585.8	585.3	584.7	589.0	585.3	585.8	588.0	584.2
50°	512.8	516.1	513.9	515.5	516.6	516.6	515.0	515.0
52.5°	448.0	447.5	445.8	447.5	446.4	446.9	448.0	446.9
55°	381.0	383.1	382.1	381.5	382.1	382.1	385.3	381.0
57.5°	315.1	314.0	315.6	319.4	315.6	318.3	319.9	320.5
60°	252.4	252.4	255.6	254.0	257.2	259.9	262.1	261.0
62.5°	192.4	195.1	196.2	196.7	199.9	202.1	202.1	201.6
65°	142.7	146.4	146.4	148.6	149.7	149.7	150.8	152.9
67.5°	105.4	105.4	105.9	107.0	106.5	106.5	107.5	108.1
70°	73.5	72.4	74.0	73.5	73.5	73.0	73.5	73.5
72.5°	46.5	46.5	47.0	46.5	45.4	45.9	45.9	47.0
75°	24.9	25.9	24.9	24.9	25.4	24.3	24.9	25.4
77.5°	10.3	10.3	10.3	10.3	10.3	9.7	9.7	9.7
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.3	4.3
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)