

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: P858005

Luminaire Tested: **LX4C40D010 EX4C409830 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858005
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: LX4C40D010 EX4C409830 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

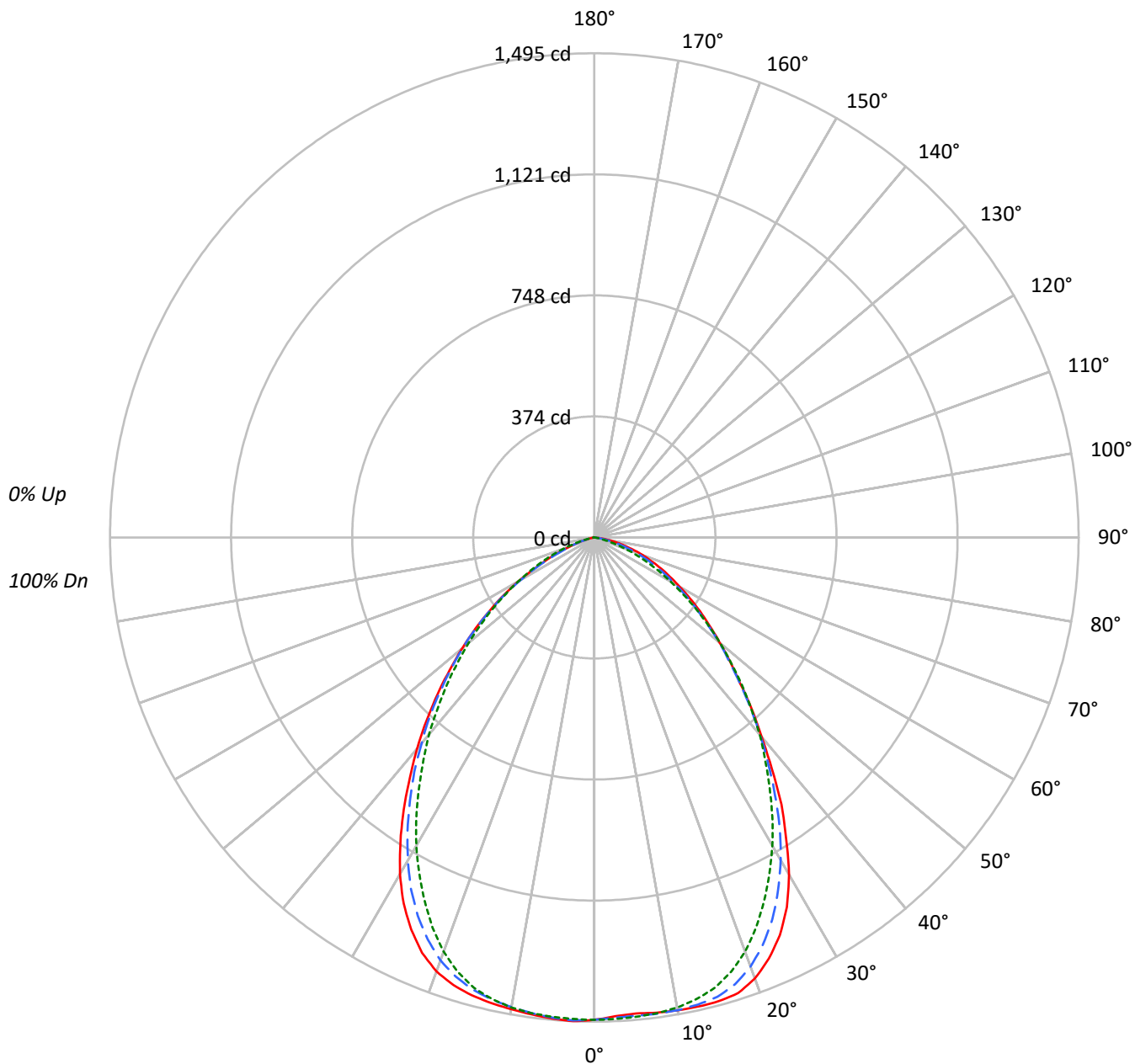
Lumens per Lamp: N/A
Luminaire Lumens: 2855.4 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P858005

CATALOG NUMBER: LX4C40D010 EX4C409830 4LBLWW*

Luminous Intensity Polar Plot





TEST NUMBER: P858005

CATALOG NUMBER: LX4C40D010 EX4C409830 4LBLWW*

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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	182978	182978	182978
5°	181950	183196	183874
10°	184952	183842	184541
15°	188568	183022	186088
20°	189518	177895	186380
25°	183689	167992	181181
30°	170500	155903	170188
35°	150981	141413	153831
40°	128716	127369	136414
45°	110569	111837	118839
50°	96519	96748	101870
55°	85290	81691	84455
60°	74769	66660	66365
65°	66191	51686	46017
70°	56430	35561	27335
75°	45663	19129	12484
80°	31200	4740	3184
85°	9444	1692	1692



TEST NUMBER: P858005

CATALOG NUMBER: LX4C40D010 EX4C409830 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	5.0
10°-20°	409.8	14.4
20°-30°	592.1	20.7
30°-40°	612.1	21.4
40°-50°	505.7	17.7
50°-60°	349.0	12.2
60°-70°	182.7	6.4
70°-80°	57.5	2.0
80°-90°	4.9	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°	1143.4	40.0
0°-40°	1755.4	61.5
0°-60°	2610.2	91.4
0°-90°	2855.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2855.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1489	1489	1489	1489	1489	
5°	1475	1483	1486	1488	1491	141
15°	1483	1469	1439	1446	1463	418
25°	1355	1300	1239	1289	1337	619
35°	1007	973	943	992	1026	625
45°	636	634	644	673	684	496
55°	398	386	381	392	394	358
65°	228	206	178	148	158	226
75°	96	76	40	27	26	103
85°	7	3	1	1	1	14
90°	0	0	0	0	0	



TEST NUMBER: P858005

CATALOG NUMBER: LX4C40D010 EX4C409830 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4
2.5°	1479.8	1480.4	1480.4	1481.5	1481.5	1481.5	1482.1	1482.1	1482.6	1483.2	1483.8
5°	1475.4	1475.4	1476.5	1477.1	1478.2	1478.7	1479.8	1480.4	1481.5	1482.1	1482.6
7.5°	1479.8	1479.8	1480.4	1481.0	1481.0	1481.5	1481.5	1482.1	1482.6	1483.2	1483.2
10°	1482.6	1482.6	1482.6	1482.6	1483.2	1483.2	1483.2	1482.6	1482.6	1482.6	1482.1
12.5°	1483.8	1483.8	1483.2	1482.6	1483.2	1482.6	1482.6	1481.0	1479.8	1478.7	1477.1
15°	1482.6	1482.6	1482.1	1481.5	1481.0	1479.8	1479.3	1476.5	1474.2	1470.9	1468.7
17.5°	1475.4	1474.2	1473.2	1472.0	1469.8	1468.1	1467.0	1461.9	1458.0	1452.5	1446.3
20°	1449.6	1448.5	1446.9	1444.1	1441.2	1439.0	1435.6	1428.4	1424.5	1416.1	1409.9
22.5°	1407.7	1406.5	1407.2	1402.1	1396.5	1393.2	1390.9	1384.8	1378.1	1367.4	1360.7
25°	1355.1	1351.8	1351.8	1343.9	1341.2	1338.9	1336.1	1328.9	1318.8	1309.3	1300.3
27.5°	1286.9	1282.4	1280.2	1279.0	1272.3	1267.3	1263.4	1257.8	1249.4	1241.0	1228.7
30°	1201.9	1201.4	1198.5	1193.5	1188.4	1186.2	1181.7	1172.3	1164.4	1158.3	1150.4
32.5°	1101.7	1101.2	1101.2	1101.2	1097.8	1097.3	1090.6	1085.5	1079.4	1069.9	1064.8
35°	1006.7	1006.2	1006.7	998.3	996.1	994.4	993.8	990.5	982.1	977.6	973.2
37.5°	899.3	901.0	899.9	897.6	900.4	895.4	899.3	892.0	888.7	887.6	882.6
40°	802.6	807.0	802.6	803.1	806.0	800.9	800.9	799.8	797.5	796.4	795.3
42.5°	719.8	714.2	717.6	714.7	717.6	715.9	713.0	714.7	715.4	713.0	712.5
45°	636.4	637.6	638.7	637.0	637.0	635.4	639.8	637.0	637.0	637.6	633.7
47.5°	568.8	567.1	568.2	567.1	567.7	566.5	567.7	568.2	567.1	567.1	563.8
50°	505.0	503.9	507.8	504.5	504.5	503.9	504.5	503.4	501.7	501.7	502.8
52.5°	449.6	447.4	446.9	449.6	445.8	445.8	446.3	445.2	442.9	441.9	439.0
55°	398.2	397.6	398.2	395.9	394.9	394.9	392.0	390.9	390.4	387.6	385.9
57.5°	350.1	348.4	349.0	348.4	346.2	345.6	343.4	343.4	341.2	339.0	336.1
60°	304.3	304.3	306.0	303.7	302.0	300.9	299.8	298.6	294.7	290.8	287.5
62.5°	263.4	264.0	263.4	261.7	260.7	259.5	258.4	255.0	251.6	249.4	245.5
65°	227.7	227.0	225.4	224.3	221.5	221.5	219.3	217.6	213.7	210.3	206.3
67.5°	190.7	189.6	189.6	189.6	186.2	185.7	184.6	181.2	177.8	173.4	170.1
70°	157.1	158.3	156.6	154.9	153.2	152.7	151.0	147.7	143.7	139.3	136.4
72.5°	125.3	126.4	124.8	124.1	120.8	119.7	119.1	116.4	111.8	109.1	104.6
75°	96.2	96.8	95.6	94.5	92.3	91.8	88.9	86.7	83.9	79.5	75.5
77.5°	69.4	68.2	68.2	66.0	63.8	63.8	63.2	59.8	55.9	52.6	49.2
80°	44.1	43.6	41.9	40.8	39.1	38.6	38.0	35.2	32.5	30.2	28.0
82.5°	22.4	21.8	21.2	20.7	19.6	18.5	19.0	16.8	15.7	13.5	11.8
85°	6.7	7.3	7.3	6.7	6.2	6.2	6.2	5.6	4.5	3.9	3.4
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: P858005

CATALOG NUMBER: LX4C40D010 EX4C409830 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4
2.5°	1484.3	1484.8	1485.5	1486.0	1486.0	1486.5	1487.1	1487.7	1488.2	1488.2	1488.8
5°	1483.2	1484.3	1484.3	1484.8	1484.8	1484.8	1485.5	1485.5	1485.5	1485.5	1486.0
7.5°	1483.8	1483.8	1483.8	1483.2	1483.2	1482.6	1482.6	1482.6	1481.5	1481.5	1481.5
10°	1481.0	1480.4	1479.8	1478.7	1478.2	1477.6	1476.5	1475.4	1474.2	1473.7	1472.5
12.5°	1475.4	1473.2	1470.9	1468.7	1467.5	1467.0	1464.8	1463.1	1461.4	1459.7	1458.6
15°	1464.2	1460.9	1456.9	1452.5	1451.3	1450.2	1446.3	1442.9	1440.7	1439.0	1436.2
17.5°	1441.8	1435.1	1430.6	1423.9	1421.1	1420.0	1413.9	1410.5	1406.5	1405.5	1403.2
20°	1402.1	1395.9	1387.6	1381.4	1378.1	1374.7	1369.6	1365.2	1360.7	1360.7	1357.9
22.5°	1352.3	1344.5	1333.9	1326.0	1325.5	1318.8	1314.3	1309.3	1307.6	1304.3	1304.3
25°	1289.7	1282.9	1271.3	1264.5	1261.2	1259.5	1252.2	1245.5	1242.1	1239.3	1241.6
27.5°	1220.3	1210.3	1201.4	1193.0	1190.1	1186.8	1180.0	1177.3	1171.1	1170.6	1170.0
30°	1140.9	1130.8	1121.9	1118.0	1112.4	1109.6	1104.6	1101.2	1099.0	1099.0	1097.8
32.5°	1057.6	1048.6	1044.1	1035.8	1033.0	1029.1	1025.7	1022.4	1023.5	1022.4	1022.9
35°	967.5	965.3	956.9	951.8	951.8	951.3	945.7	943.5	942.4	942.9	945.7
37.5°	881.9	875.2	869.7	866.3	869.1	865.8	865.2	865.2	868.6	866.3	870.8
40°	790.8	790.3	788.0	789.1	789.7	785.8	786.9	787.5	789.7	794.2	794.7
42.5°	711.4	710.8	710.8	710.8	709.7	707.5	709.7	713.7	713.0	716.4	719.2
45°	634.7	633.7	635.9	634.2	637.6	638.7	637.0	638.1	641.5	643.7	648.2
47.5°	564.8	564.8	565.5	566.5	563.2	566.0	567.1	569.4	571.0	572.1	574.4
50°	500.0	500.0	498.8	498.8	498.8	500.5	498.3	501.1	501.7	506.2	508.9
52.5°	440.2	437.3	439.0	437.9	435.7	434.5	435.7	436.2	439.6	440.7	444.1
55°	383.1	383.1	378.6	377.5	379.2	378.6	378.1	378.1	379.7	381.4	384.3
57.5°	332.8	329.4	326.0	325.5	323.8	324.4	324.4	323.8	322.7	323.3	323.8
60°	285.3	282.9	278.0	278.0	277.4	276.8	274.0	273.5	270.7	271.3	269.0
62.5°	241.6	240.5	233.8	231.5	231.5	229.9	227.0	226.5	222.6	222.6	220.3
65°	202.4	199.1	195.2	191.3	191.3	189.0	187.4	182.4	179.5	177.8	174.5
67.5°	166.7	161.7	157.7	154.4	152.1	151.6	147.7	144.3	139.8	137.1	132.0
70°	132.0	128.1	124.1	120.8	118.6	116.4	112.4	107.4	104.1	99.0	95.6
72.5°	99.5	96.2	92.8	88.4	85.6	83.9	80.0	75.5	69.9	66.5	62.1
75°	71.6	67.7	63.2	59.3	57.6	55.9	51.5	48.1	44.1	40.3	35.8
77.5°	46.5	41.9	38.6	34.2	33.5	32.5	28.0	24.6	21.8	19.6	16.8
80°	24.6	22.4	19.6	16.8	15.7	14.0	11.8	10.1	8.4	6.7	5.6
82.5°	10.6	8.9	7.3	6.2	5.6	5.0	3.9	3.4	2.8	2.8	2.2
85°	2.8	2.2	2.2	1.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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



TEST NUMBER: P858005

CATALOG NUMBER: LX4C40D010 EX4C409830 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4
2.5°	1489.4	1489.9	1490.5	1490.5	1491.0	1491.6	1491.6	1492.2	1492.7	1493.2	1493.2
5°	1486.5	1486.5	1486.5	1487.1	1487.1	1487.1	1487.1	1488.2	1488.2	1488.8	1489.4
7.5°	1481.0	1481.0	1481.0	1481.0	1480.4	1481.0	1480.4	1480.4	1481.5	1482.1	1482.6
10°	1472.0	1471.5	1471.5	1470.9	1470.9	1470.9	1471.5	1472.0	1472.5	1473.2	1474.9
12.5°	1458.0	1457.5	1457.5	1456.9	1456.9	1457.5	1458.0	1459.2	1461.4	1462.5	1464.8
15°	1435.6	1435.1	1435.6	1436.2	1437.3	1439.0	1440.7	1442.4	1445.7	1448.5	1451.3
17.5°	1403.2	1403.8	1404.3	1405.5	1407.2	1409.4	1413.9	1418.3	1422.2	1426.7	1431.2
20°	1358.5	1360.7	1361.2	1365.2	1366.3	1371.3	1376.4	1383.1	1389.2	1394.9	1401.0
22.5°	1304.8	1306.5	1308.7	1313.2	1315.9	1322.7	1328.9	1336.6	1343.4	1350.6	1359.6
25°	1243.8	1244.4	1251.1	1251.1	1257.8	1263.4	1270.6	1279.0	1289.1	1298.6	1304.8
27.5°	1174.5	1177.3	1182.3	1184.5	1189.6	1198.5	1204.7	1214.7	1224.8	1233.2	1239.9
30°	1101.7	1104.0	1112.4	1113.5	1117.4	1125.3	1133.7	1143.1	1151.0	1160.5	1166.7
32.5°	1025.1	1031.3	1036.3	1040.2	1041.4	1053.1	1057.6	1064.3	1073.2	1082.8	1088.9
35°	950.8	953.5	960.9	963.1	966.5	973.2	982.1	987.7	992.2	998.3	1005.6
37.5°	871.9	880.3	881.9	888.7	889.8	895.9	900.4	907.2	912.7	918.3	919.5
40°	798.6	801.4	807.6	809.3	810.4	818.8	824.4	826.0	828.9	833.9	840.6
42.5°	724.3	727.0	733.7	732.1	737.1	741.0	743.8	750.6	753.3	755.0	755.0
45°	651.0	652.1	656.6	658.8	661.6	663.9	668.9	672.3	673.4	678.4	680.0
47.5°	581.1	582.2	585.5	589.4	588.4	591.1	596.8	598.4	599.0	602.4	604.0
50°	512.3	515.1	519.5	518.5	521.8	523.5	528.5	529.6	529.6	530.2	530.8
52.5°	448.0	450.2	451.3	452.5	454.2	456.9	459.2	458.1	460.3	462.5	460.9
55°	384.3	385.9	388.7	389.8	389.8	390.4	389.2	394.3	392.0	391.5	392.0
57.5°	326.0	323.8	323.3	326.0	327.2	326.6	325.0	327.2	327.2	326.0	324.4
60°	269.6	267.9	267.3	267.9	265.6	264.0	265.1	264.0	261.2	260.0	260.7
62.5°	218.1	216.4	212.0	212.0	210.8	210.3	205.8	206.3	204.1	200.8	201.9
65°	170.6	166.1	163.9	163.3	159.4	156.1	154.9	151.0	147.7	147.0	147.7
67.5°	128.1	123.1	119.1	117.4	115.2	112.4	108.5	105.1	106.3	105.7	107.9
70°	88.9	85.6	81.7	78.8	80.0	76.6	74.4	74.4	74.9	75.5	76.6
72.5°	59.3	54.8	53.1	51.5	50.3	48.1	49.2	49.2	48.7	49.2	48.1
75°	33.5	31.3	29.6	29.1	28.0	28.0	28.0	28.0	27.4	26.8	26.8
77.5°	15.1	14.0	13.5	12.8	12.8	12.8	12.3	11.8	11.8	11.8	11.1
80°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	2.2	2.2	2.8	2.8	2.8	2.2	2.8	2.8	2.2	2.2	2.8
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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: P858005

CATALOG NUMBER: LX4C40D010 EX4C409830 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4	1489.4
2.5°	1493.8	1494.4	1494.4	1494.4	1494.9	1494.9	1494.9	1494.9
5°	1489.9	1490.5	1490.5	1490.5	1491.0	1491.0	1491.0	1491.0
7.5°	1483.2	1483.8	1483.8	1484.3	1484.3	1484.8	1484.8	1485.5
10°	1475.4	1476.5	1477.1	1477.6	1478.2	1478.7	1478.7	1479.3
12.5°	1467.0	1468.1	1468.7	1469.8	1470.9	1471.5	1472.0	1472.5
15°	1454.7	1456.9	1458.0	1458.6	1460.9	1461.9	1462.5	1463.1
17.5°	1435.1	1439.5	1441.2	1442.4	1444.6	1446.9	1448.5	1449.1
20°	1407.2	1412.2	1414.4	1417.2	1420.5	1423.4	1424.5	1425.6
22.5°	1368.0	1373.5	1376.9	1380.3	1383.1	1385.9	1390.3	1388.7
25°	1312.0	1321.6	1325.5	1327.2	1333.3	1336.6	1338.9	1336.6
27.5°	1249.4	1255.0	1258.3	1262.3	1266.7	1270.1	1271.3	1274.6
30°	1173.9	1183.4	1182.9	1186.8	1192.3	1195.7	1196.8	1199.7
32.5°	1095.6	1100.1	1103.4	1102.9	1105.1	1111.3	1109.1	1114.1
35°	1012.3	1012.8	1018.5	1017.9	1022.4	1022.4	1022.4	1025.7
37.5°	923.4	930.1	927.3	934.0	931.8	933.4	933.4	934.5
40°	842.3	844.5	844.5	846.7	848.4	846.7	847.9	850.6
42.5°	758.3	760.7	761.2	760.0	761.7	766.8	762.9	766.2
45°	680.0	681.7	684.0	682.3	685.1	683.4	685.1	684.0
47.5°	606.3	605.7	605.1	609.6	605.7	606.3	608.5	604.6
50°	530.8	534.1	531.8	533.5	534.7	534.7	533.0	533.0
52.5°	463.6	463.1	461.4	463.1	461.9	462.5	463.6	462.5
55°	394.3	396.6	395.4	394.9	395.4	395.4	398.8	394.3
57.5°	326.0	325.0	326.6	330.6	326.6	329.4	331.1	331.6
60°	261.2	261.2	264.6	262.9	266.2	269.0	271.3	270.1
62.5°	199.1	201.9	203.0	203.6	207.0	209.2	209.2	208.6
65°	147.7	151.6	151.6	153.8	154.9	154.9	156.1	158.3
67.5°	109.1	109.1	109.6	110.8	110.2	110.2	111.3	111.8
70°	76.1	74.9	76.6	76.1	76.1	75.5	76.1	76.1
72.5°	48.1	48.1	48.7	48.1	47.0	47.5	47.5	48.7
75°	25.7	26.8	25.7	25.7	26.3	25.1	25.7	26.3
77.5°	10.6	10.6	10.6	10.6	10.6	10.1	10.1	10.1
80°	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5
82.5°	2.2	2.8	2.2	2.8	2.2	2.2	2.2	2.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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)