

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: P857931

Luminaire Tested: **LX4C40D010 EX4C409035 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857931
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 EX4C409035 4LBLWW*
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

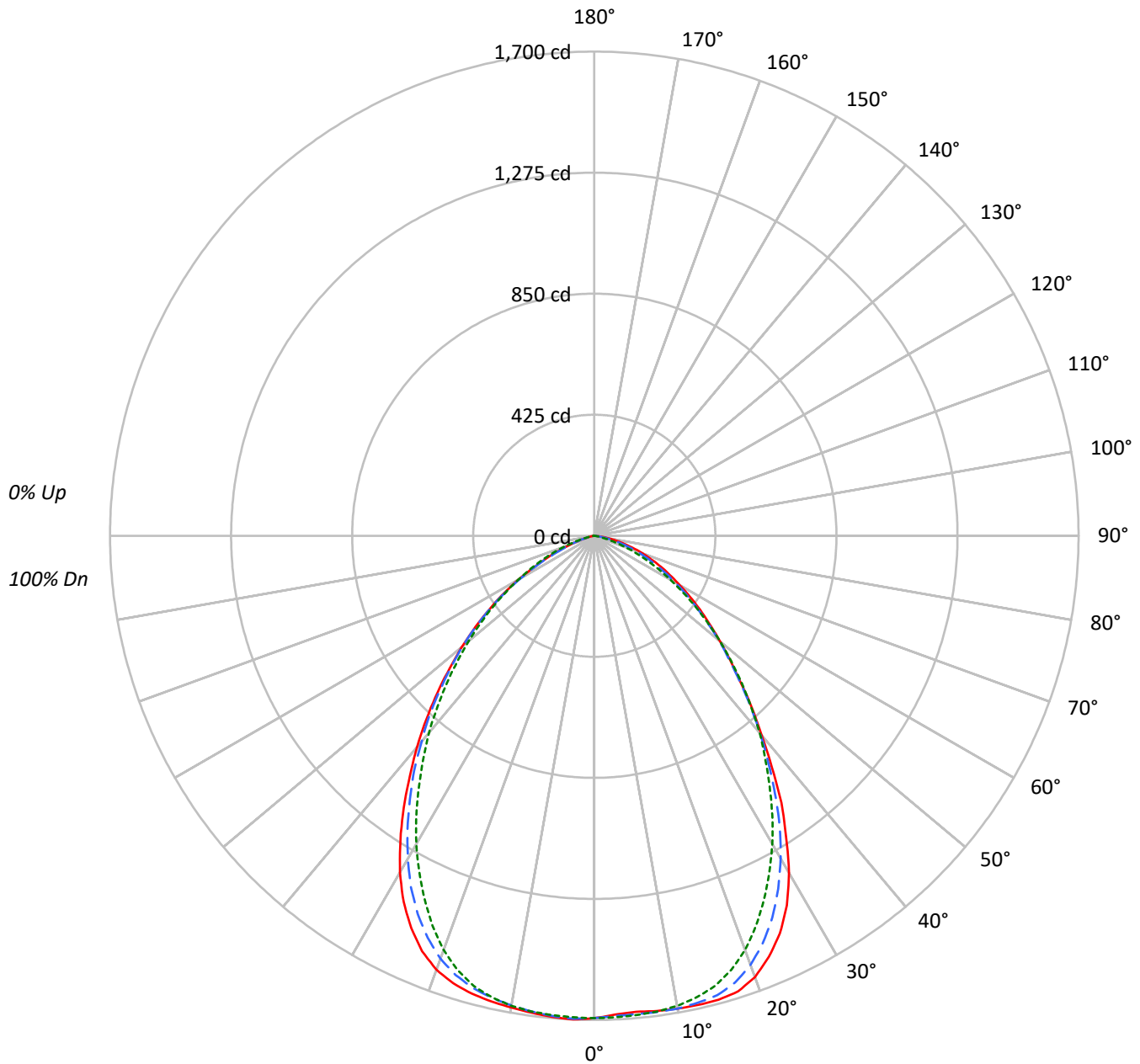
Lumens per Lamp: N/A
Luminaire Lumens: 3247.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P857931

CATALOG NUMBER: LX4C40D010 EX4C409035 4LBLWW*

Luminous Intensity Polar Plot





TEST NUMBER: P857931

CATALOG NUMBER: LX4C40D010 EX4C409035 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
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°	208065	208065	208065
5°	206899	208317	209094
10°	210326	209054	209852
15°	214438	208129	211601
20°	215521	202304	211939
25°	208888	191036	206042
30°	193879	177281	193524
35°	171693	160820	174932
40°	146357	144834	155130
45°	125754	127178	135136
50°	109764	110012	115842
55°	96985	92894	96042
60°	85015	75801	75481
65°	75232	58779	52325
70°	64189	40446	31071
75°	51929	21740	14193
80°	35516	5377	3608
85°	10713	1832	1832



TEST NUMBER: P857931

CATALOG NUMBER: LX4C40D010 EX4C409035 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	5.0
10°-20°	466.0	14.4
20°-30°	673.3	20.7
30°-40°	696.0	21.4
40°-50°	575.1	17.7
50°-60°	396.9	12.2
60°-70°	207.8	6.4
70°-80°	65.4	2.0
80°-90°	5.6	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°	1300.2	40.0
0°-40°	1996.2	61.5
0°-60°	2968.3	91.4
0°-90°	3247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3247.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1694	1694	1694	1694	1694	
5°	1678	1686	1689	1692	1696	161
15°	1686	1670	1636	1644	1664	476
25°	1541	1479	1409	1466	1520	704
35°	1145	1107	1072	1128	1166	711
45°	724	721	732	766	778	564
55°	453	439	434	446	448	407
65°	259	235	202	168	180	256
75°	109	86	46	31	30	117
85°	8	4	1	1	1	16
90°	0	0	0	0	0	



TEST NUMBER: P857931

CATALOG NUMBER: LX4C40D010 EX4C409035 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6
2.5°	1682.8	1683.5	1683.5	1684.7	1684.7	1684.7	1685.4	1685.4	1686.0	1686.6	1687.3
5°	1677.7	1677.7	1679.0	1679.6	1680.9	1681.5	1682.8	1683.5	1684.7	1685.4	1686.0
7.5°	1682.8	1682.8	1683.5	1684.1	1684.1	1684.7	1684.7	1685.4	1686.0	1686.6	1686.6
10°	1686.0	1686.0	1686.0	1686.0	1686.6	1686.6	1686.6	1686.0	1686.0	1686.0	1685.4
12.5°	1687.3	1687.3	1686.6	1686.0	1686.6	1686.0	1686.0	1684.1	1682.8	1681.5	1679.6
15°	1686.0	1686.0	1685.4	1684.7	1684.1	1682.8	1682.2	1679.0	1676.5	1672.6	1670.1
17.5°	1677.7	1676.5	1675.2	1673.9	1671.4	1669.5	1668.2	1662.5	1658.0	1651.7	1644.7
20°	1648.5	1647.2	1645.3	1642.1	1638.9	1636.4	1632.6	1624.3	1619.9	1610.3	1603.3
22.5°	1600.8	1599.5	1600.1	1594.4	1588.1	1584.2	1581.7	1574.7	1567.1	1555.0	1547.4
25°	1541.0	1537.2	1537.2	1528.3	1525.1	1522.5	1519.4	1511.1	1499.7	1488.8	1478.7
27.5°	1463.4	1458.3	1455.8	1454.5	1446.9	1441.1	1436.7	1430.3	1420.8	1411.3	1397.3
30°	1366.7	1366.1	1362.9	1357.2	1351.5	1348.9	1343.8	1333.0	1324.1	1317.1	1308.2
32.5°	1252.9	1252.3	1252.3	1252.3	1248.4	1247.8	1240.2	1234.4	1227.5	1216.6	1210.9
35°	1144.8	1144.1	1144.8	1135.2	1132.7	1130.8	1130.1	1126.3	1116.8	1111.7	1106.6
37.5°	1022.7	1024.6	1023.3	1020.8	1023.9	1018.2	1022.7	1014.4	1010.6	1009.3	1003.6
40°	912.6	917.7	912.6	913.3	916.5	910.7	910.7	909.5	906.9	905.6	904.4
42.5°	818.5	812.2	816.0	812.8	816.0	814.1	810.9	812.8	813.4	810.9	810.2
45°	723.8	725.0	726.3	724.4	724.4	722.5	727.6	724.4	724.4	725.0	720.6
47.5°	646.8	644.9	646.2	644.9	645.5	644.3	645.5	646.2	644.9	644.9	641.1
50°	574.3	573.0	577.5	573.7	573.7	573.0	573.7	572.4	570.5	570.5	571.8
52.5°	511.3	508.8	508.2	511.3	506.9	506.9	507.5	506.2	503.7	502.4	499.2
55°	452.8	452.2	452.8	450.3	449.0	449.0	445.8	444.6	443.9	440.7	438.8
57.5°	398.1	396.2	396.9	396.2	393.7	393.0	390.5	390.5	388.0	385.4	382.2
60°	346.0	346.0	347.9	345.3	343.4	342.2	340.9	339.6	335.2	330.7	326.9
62.5°	299.5	300.2	299.5	297.6	296.4	295.1	293.8	290.0	286.2	283.6	279.2
65°	258.8	258.2	256.3	255.0	251.9	251.9	249.3	247.4	242.9	239.1	234.7
67.5°	216.9	215.6	215.6	215.6	211.8	211.1	209.9	206.1	202.2	197.2	193.3
70°	178.7	180.0	178.1	176.2	174.3	173.6	171.7	167.9	163.4	158.4	155.2
72.5°	142.5	143.7	141.8	141.2	137.4	136.1	135.5	132.3	127.2	124.0	118.9
75°	109.4	110.0	108.8	107.5	104.9	104.3	101.1	98.6	95.4	90.3	85.9
77.5°	78.9	77.6	77.6	75.0	72.5	72.5	71.9	68.1	63.6	59.8	56.0
80°	50.2	49.6	47.7	46.4	44.5	43.9	43.2	40.1	36.9	34.3	31.8
82.5°	25.4	24.8	24.2	23.5	22.3	21.0	21.6	19.1	17.8	15.3	13.4
85°	7.6	8.3	8.3	7.6	7.0	7.0	7.0	6.4	5.1	4.5	3.8
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: P857931

CATALOG NUMBER: LX4C40D010 EX4C409035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6
2.5°	1687.9	1688.5	1689.2	1689.8	1689.8	1690.5	1691.1	1691.7	1692.4	1692.4	1693.0
5°	1686.6	1687.9	1687.9	1688.5	1688.5	1688.5	1689.2	1689.2	1689.2	1689.2	1689.8
7.5°	1687.3	1687.3	1687.3	1686.6	1686.6	1686.0	1686.0	1686.0	1684.7	1684.7	1684.7
10°	1684.1	1683.5	1682.8	1681.5	1680.9	1680.3	1679.0	1677.7	1676.5	1675.8	1674.6
12.5°	1677.7	1675.2	1672.6	1670.1	1668.8	1668.2	1665.6	1663.7	1661.8	1659.9	1658.7
15°	1665.0	1661.2	1656.7	1651.7	1650.4	1649.1	1644.7	1640.8	1638.3	1636.4	1633.2
17.5°	1639.6	1631.9	1626.9	1619.2	1616.0	1614.8	1607.8	1604.0	1599.5	1598.2	1595.7
20°	1594.4	1587.4	1577.9	1570.9	1567.1	1563.3	1557.5	1552.4	1547.4	1547.4	1544.2
22.5°	1537.8	1528.9	1516.8	1507.9	1507.3	1499.7	1494.6	1488.8	1486.9	1483.1	1483.1
25°	1466.6	1459.0	1445.6	1438.0	1434.1	1432.2	1424.0	1416.3	1412.5	1409.3	1411.9
27.5°	1387.7	1376.3	1366.1	1356.6	1353.4	1349.6	1341.9	1338.8	1331.8	1331.1	1330.5
30°	1297.4	1286.0	1275.8	1271.3	1265.0	1261.8	1256.1	1252.3	1249.7	1249.7	1248.4
32.5°	1202.6	1192.5	1187.4	1177.8	1174.7	1170.2	1166.4	1162.6	1163.9	1162.6	1163.2
35°	1100.3	1097.7	1088.2	1082.4	1082.4	1081.8	1075.5	1072.9	1071.6	1072.3	1075.5
37.5°	1002.9	995.3	989.0	985.1	988.3	984.5	983.9	983.9	987.7	985.1	990.2
40°	899.3	898.6	896.1	897.4	898.0	893.6	894.8	895.5	898.0	903.1	903.7
42.5°	809.0	808.3	808.3	808.3	807.1	804.5	807.1	811.5	810.9	814.7	817.9
45°	721.8	720.6	723.1	721.2	725.0	726.3	724.4	725.7	729.5	732.0	737.1
47.5°	642.3	642.3	643.0	644.3	640.4	643.6	644.9	647.4	649.3	650.6	653.2
50°	568.6	568.6	567.3	567.3	567.3	569.2	566.7	569.8	570.5	575.6	578.7
52.5°	500.5	497.3	499.2	498.0	495.4	494.2	495.4	496.1	499.9	501.2	505.0
55°	435.7	435.7	430.6	429.3	431.2	430.6	429.9	429.9	431.8	433.7	436.9
57.5°	378.4	374.6	370.8	370.1	368.2	368.9	368.9	368.2	367.0	367.6	368.2
60°	324.4	321.8	316.1	316.1	315.4	314.8	311.6	311.0	307.8	308.5	305.9
62.5°	274.7	273.5	265.8	263.3	263.3	261.4	258.2	257.6	253.1	253.1	250.6
65°	230.2	226.4	222.0	217.5	217.5	215.0	213.1	207.3	204.2	202.2	198.4
67.5°	189.5	183.8	179.3	175.5	173.0	172.4	167.9	164.1	159.0	155.8	150.1
70°	150.1	145.6	141.2	137.4	134.8	132.3	127.8	122.1	118.3	112.6	108.8
72.5°	113.2	109.4	105.6	100.5	97.3	95.4	90.9	85.9	79.5	75.7	70.6
75°	81.4	77.0	71.9	67.4	65.5	63.6	58.5	54.7	50.2	45.8	40.7
77.5°	52.8	47.7	43.9	38.8	38.2	36.9	31.8	28.0	24.8	22.3	19.1
80°	28.0	25.4	22.3	19.1	17.8	15.9	13.4	11.4	9.5	7.6	6.4
82.5°	12.1	10.2	8.3	7.0	6.4	5.7	4.5	3.8	3.2	3.2	2.5
85°	3.2	2.5	2.5	1.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.6	0.6	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: P857931

CATALOG NUMBER: LX4C40D010 EX4C409035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6
2.5°	1693.6	1694.3	1694.9	1694.9	1695.5	1696.2	1696.2	1696.8	1697.4	1698.1	1698.1
5°	1690.5	1690.5	1690.5	1691.1	1691.1	1691.1	1691.1	1692.4	1692.4	1693.0	1693.6
7.5°	1684.1	1684.1	1684.1	1684.1	1683.5	1684.1	1683.5	1683.5	1684.7	1685.4	1686.0
10°	1673.9	1673.3	1673.3	1672.6	1672.6	1672.6	1673.3	1673.9	1674.6	1675.2	1677.1
12.5°	1658.0	1657.4	1657.4	1656.7	1656.7	1657.4	1658.0	1659.3	1661.8	1663.1	1665.6
15°	1632.6	1631.9	1632.6	1633.2	1634.5	1636.4	1638.3	1640.2	1644.0	1647.2	1650.4
17.5°	1595.7	1596.3	1597.0	1598.2	1600.1	1602.7	1607.8	1612.9	1617.3	1622.4	1627.5
20°	1544.8	1547.4	1548.0	1552.4	1553.7	1559.4	1565.2	1572.8	1579.8	1586.1	1593.1
22.5°	1483.8	1485.7	1488.2	1493.3	1496.5	1504.1	1511.1	1520.0	1527.6	1535.9	1546.1
25°	1414.4	1415.1	1422.7	1422.7	1430.3	1436.7	1445.0	1454.5	1465.9	1476.8	1483.8
27.5°	1335.6	1338.8	1344.5	1347.0	1352.7	1362.9	1369.9	1381.4	1392.8	1402.3	1410.0
30°	1252.9	1255.4	1265.0	1266.2	1270.7	1279.6	1289.1	1300.0	1308.9	1319.7	1326.7
32.5°	1165.8	1172.8	1178.5	1182.9	1184.2	1197.6	1202.6	1210.3	1220.5	1231.3	1238.3
35°	1081.2	1084.4	1092.6	1095.2	1099.0	1106.6	1116.8	1123.2	1128.2	1135.2	1143.5
37.5°	991.5	1001.0	1002.9	1010.6	1011.9	1018.8	1023.9	1031.6	1037.9	1044.3	1045.6
40°	908.2	911.4	918.4	920.3	921.5	931.1	937.4	939.4	942.5	948.3	955.9
42.5°	823.6	826.8	834.4	832.5	838.2	842.7	845.9	853.5	856.7	858.6	858.6
45°	740.3	741.6	746.6	749.2	752.4	754.9	760.6	764.5	765.7	771.5	773.4
47.5°	660.8	662.1	665.9	670.3	669.1	672.2	678.6	680.5	681.1	685.0	686.9
50°	582.6	585.7	590.8	589.6	593.4	595.3	601.0	602.3	602.3	602.9	603.6
52.5°	509.4	512.0	513.2	514.5	516.4	519.6	522.1	520.9	523.4	526.0	524.1
55°	436.9	438.8	442.0	443.3	443.3	443.9	442.6	448.4	445.8	445.2	445.8
57.5°	370.8	368.2	367.6	370.8	372.1	371.4	369.5	372.1	372.1	370.8	368.9
60°	306.5	304.6	304.0	304.6	302.1	300.2	301.5	300.2	297.0	295.7	296.4
62.5°	248.0	246.1	241.0	241.0	239.8	239.1	234.0	234.7	232.1	228.3	229.6
65°	194.0	188.9	186.3	185.7	181.3	177.4	176.2	171.7	167.9	167.3	167.9
67.5°	145.6	139.9	135.5	133.6	131.0	127.8	123.4	119.6	120.8	120.2	122.7
70°	101.1	97.3	92.9	89.7	90.9	87.1	84.6	84.6	85.2	85.9	87.1
72.5°	67.4	62.3	60.4	58.5	57.2	54.7	56.0	56.0	55.3	56.0	54.7
75°	38.2	35.6	33.7	33.1	31.8	31.8	31.8	31.8	31.2	30.5	30.5
77.5°	17.2	15.9	15.3	14.6	14.6	14.6	14.0	13.4	13.4	13.4	12.7
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	2.5	2.5	3.2	3.2	3.2	2.5	3.2	3.2	2.5	2.5	3.2
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.0	0.6	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: P857931

CATALOG NUMBER: LX4C40D010 EX4C409035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6
2.5°	1698.7	1699.4	1699.4	1699.4	1700.0	1700.0	1700.0	1700.0
5°	1694.3	1694.9	1694.9	1694.9	1695.5	1695.5	1695.5	1695.5
7.5°	1686.6	1687.3	1687.3	1687.9	1687.9	1688.5	1688.5	1689.2
10°	1677.7	1679.0	1679.6	1680.3	1680.9	1681.5	1681.5	1682.2
12.5°	1668.2	1669.5	1670.1	1671.4	1672.6	1673.3	1673.9	1674.6
15°	1654.2	1656.7	1658.0	1658.7	1661.2	1662.5	1663.1	1663.7
17.5°	1631.9	1637.0	1638.9	1640.2	1642.8	1645.3	1647.2	1647.8
20°	1600.1	1605.9	1608.4	1611.6	1615.4	1618.6	1619.9	1621.1
22.5°	1555.6	1562.0	1565.8	1569.6	1572.8	1576.0	1581.1	1579.2
25°	1492.0	1502.8	1507.3	1509.2	1516.2	1520.0	1522.5	1520.0
27.5°	1420.8	1427.2	1431.0	1435.4	1440.5	1444.3	1445.6	1449.4
30°	1334.9	1345.7	1345.1	1349.6	1355.9	1359.7	1361.0	1364.2
32.5°	1245.9	1251.0	1254.8	1254.2	1256.7	1263.7	1261.2	1266.9
35°	1151.1	1151.8	1158.1	1157.5	1162.6	1162.6	1162.6	1166.4
37.5°	1050.0	1057.6	1054.5	1062.1	1059.6	1061.5	1061.5	1062.7
40°	957.8	960.3	960.3	962.9	964.8	962.9	964.2	967.3
42.5°	862.4	864.9	865.6	864.3	866.2	871.9	867.5	871.3
45°	773.4	775.3	777.8	775.9	779.1	777.2	779.1	777.8
47.5°	689.4	688.8	688.1	693.2	688.8	689.4	692.0	687.5
50°	603.6	607.4	604.8	606.7	608.0	608.0	606.1	606.1
52.5°	527.2	526.6	524.7	526.6	525.3	526.0	527.2	526.0
55°	448.4	450.9	449.6	449.0	449.6	449.6	453.5	448.4
57.5°	370.8	369.5	371.4	375.9	371.4	374.6	376.5	377.1
60°	297.0	297.0	300.8	298.9	302.7	305.9	308.5	307.2
62.5°	226.4	229.6	230.9	231.5	235.3	237.9	237.9	237.2
65°	167.9	172.4	172.4	174.9	176.2	176.2	177.4	180.0
67.5°	124.0	124.0	124.7	125.9	125.3	125.3	126.6	127.2
70°	86.5	85.2	87.1	86.5	86.5	85.9	86.5	86.5
72.5°	54.7	54.7	55.3	54.7	53.4	54.1	54.1	55.3
75°	29.3	30.5	29.3	29.3	29.9	28.6	29.3	29.9
77.5°	12.1	12.1	12.1	12.1	12.1	11.4	11.4	11.4
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.1	5.1
82.5°	2.5	3.2	2.5	3.2	2.5	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.6
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)