

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: P857878

Luminaire Tested: **LX4C35D010 EX4C359850 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C35D010 EX4C359850 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

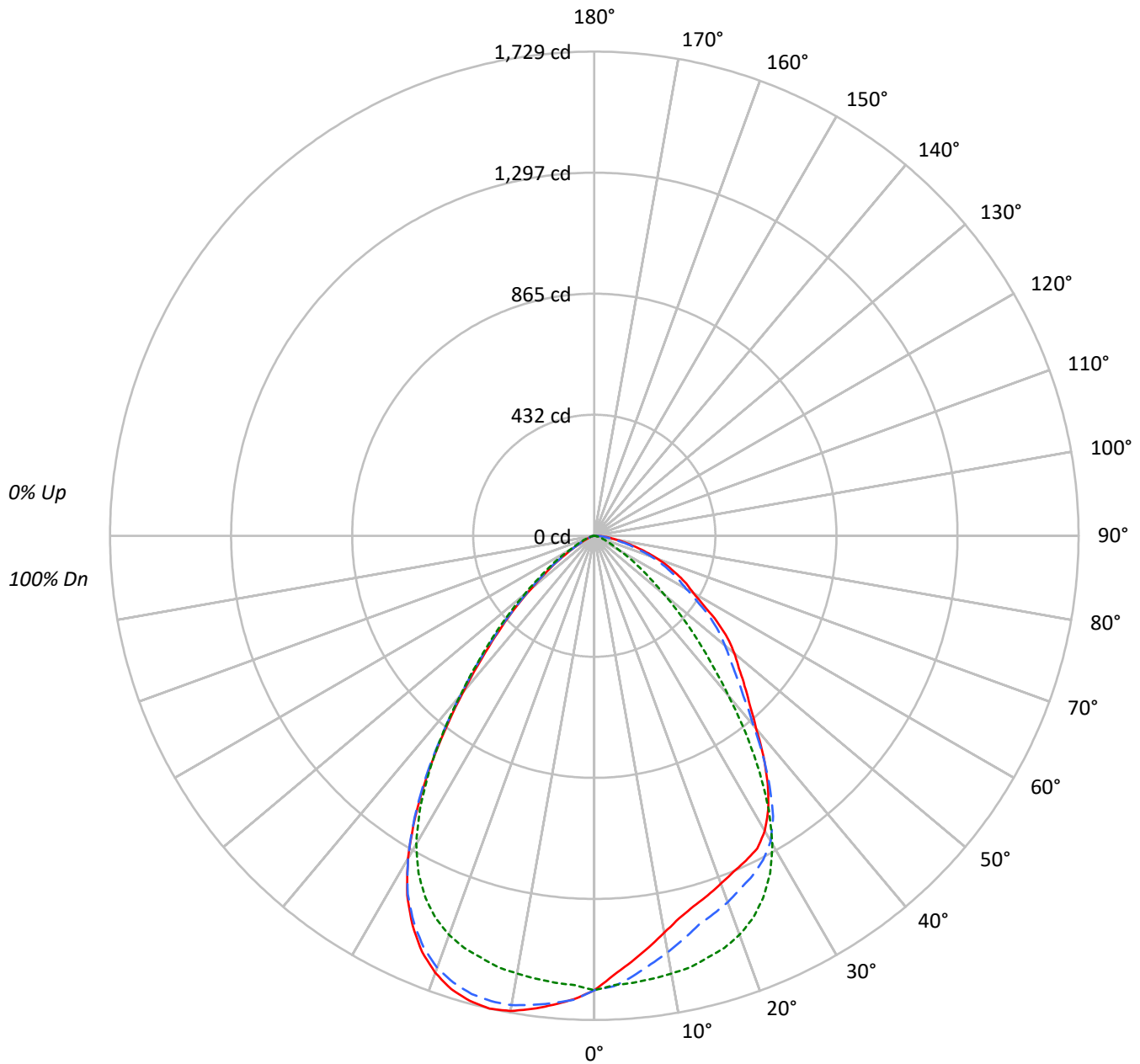
Lumens per Lamp: N/A
Luminaire Lumens: 2844.7 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	108	104	101	109	106	103	100		101	99	97		98	96	94		94	93	91
2	104	97	92	87	101	95	90	86		92	88	84		89	85	82		86	83	81
3	96	88	81	76	94	86	80	75		83	78	74		81	76	73		78	75	72
4	90	80	72	67	88	78	72	66		76	70	66		74	69	65		72	68	64
5	83	73	65	60	82	72	65	59		70	63	59		68	62	58		66	61	58
6	78	67	59	53	76	66	59	53		64	58	53		62	57	52		61	56	52
7	73	61	54	48	71	61	53	48		59	53	48		58	52	48		56	51	47
8	68	57	49	44	67	56	49	44		55	48	44		54	48	43		52	47	43
9	64	52	45	40	63	52	45	40		51	44	40		50	44	40		49	44	40
10	61	49	42	37	59	48	42	37		47	41	37		47	41	37		46	40	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	199367	199367	199367
5°	188265	197551	207355
10°	179488	198014	214967
15°	174221	198425	218635
20°	172796	198212	217077
25°	173482	193340	208075
30°	172657	180359	188672
35°	161840	153996	155571
40°	144208	119398	116720
45°	131887	89025	83569
50°	124710	62364	56363
55°	114677	42088	35384
60°	100199	24644	19534
65°	94854	15785	10930
70°	86387	11279	6753
75°	71485	7974	4984
80°	56245	4457	2971
85°	50181	2960	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	5.4
10°-20°	439.9	15.5
20°-30°	652.1	22.9
30°-40°	653.0	23.0
40°-50°	456.4	16.0
50°-60°	271.5	9.5
60°-70°	141.7	5.0
70°-80°	63.0	2.2
80°-90°	13.7	0.5
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°	1245.3	43.8
0°-40°	1898.3	66.7
0°-60°	2626.2	92.3
0°-90°	2844.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2844.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1623	1623	1623	1623	1623	
5°	1527	1579	1602	1675	1681	143
15°	1370	1439	1560	1694	1719	388
25°	1280	1338	1426	1524	1535	590
35°	1079	1092	1027	1046	1037	669
45°	759	722	512	496	481	589
55°	535	502	196	172	165	475
65°	326	299	54	40	38	323
75°	151	132	17	10	10	163
85°	36	27	2	2	0	40
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°	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8
2.5°	1570.5	1589.4	1570.5	1576.9	1601.9	1578.9	1591.4	1591.4	1585.2	1599.8	1610.3
5°	1526.6	1545.5	1526.6	1535.0	1562.2	1539.1	1553.8	1549.7	1551.7	1564.3	1578.9
7.5°	1482.7	1497.3	1480.6	1491.1	1516.1	1497.3	1509.9	1509.9	1512.0	1530.8	1543.4
10°	1438.8	1451.3	1438.8	1447.1	1474.4	1457.6	1466.0	1468.1	1474.4	1491.1	1509.9
12.5°	1399.1	1409.5	1397.0	1409.5	1432.5	1415.7	1426.3	1428.3	1434.6	1453.5	1474.4
15°	1369.8	1380.2	1367.8	1378.1	1399.1	1386.5	1394.9	1399.1	1403.2	1419.9	1438.8
17.5°	1346.8	1355.2	1344.7	1357.2	1373.9	1359.4	1371.9	1371.9	1378.1	1394.9	1415.7
20°	1321.7	1330.0	1321.7	1332.2	1351.0	1338.4	1348.8	1348.8	1355.2	1373.9	1392.8
22.5°	1298.7	1302.8	1298.7	1307.0	1325.8	1315.4	1321.7	1323.8	1330.0	1346.8	1363.6
25°	1279.8	1288.2	1284.0	1292.4	1304.9	1294.5	1300.8	1302.8	1309.1	1323.8	1338.4
27.5°	1259.0	1263.2	1259.0	1269.4	1279.8	1271.4	1277.8	1275.6	1279.8	1292.4	1304.9
30°	1217.1	1221.3	1221.3	1227.6	1236.0	1231.8	1238.0	1231.8	1236.0	1246.4	1259.0
32.5°	1156.5	1158.6	1160.6	1166.9	1173.2	1166.9	1171.1	1171.1	1171.1	1179.5	1187.9
35°	1079.1	1083.3	1081.2	1085.4	1091.6	1089.5	1089.5	1087.5	1083.3	1087.5	1091.6
37.5°	991.3	984.9	984.9	991.3	995.5	987.1	991.3	987.1	987.1	989.1	989.1
40°	899.2	893.0	899.2	901.4	903.4	899.2	897.2	893.0	886.7	888.8	884.6
42.5°	821.9	817.6	819.8	819.8	821.9	817.6	819.8	811.4	805.1	801.0	794.7
45°	759.1	752.9	759.1	754.9	754.9	752.9	750.8	746.6	738.2	731.9	721.5
47.5°	700.6	700.6	702.6	702.6	702.6	698.4	698.4	690.1	681.7	673.4	658.8
50°	652.5	648.3	656.7	656.7	650.4	648.3	650.4	639.9	633.7	623.2	608.5
52.5°	600.1	600.1	602.3	602.3	600.1	596.0	598.1	589.7	583.5	573.0	558.3
55°	535.4	531.2	537.5	537.5	535.4	533.3	535.4	529.1	522.8	514.5	501.9
57.5°	462.2	460.0	464.2	466.4	462.2	462.2	464.2	458.0	455.9	447.5	435.0
60°	407.8	405.7	409.9	412.0	407.8	407.8	407.8	399.4	395.2	386.8	378.5
62.5°	370.2	368.1	372.3	370.2	368.1	366.0	368.1	359.7	355.5	347.2	338.8
65°	326.3	328.3	330.5	330.5	328.3	326.3	326.3	322.1	317.9	309.5	299.1
67.5°	284.4	284.4	286.5	288.6	286.5	286.5	286.5	280.2	276.0	269.8	257.3
70°	240.5	238.4	244.7	244.7	240.5	242.6	240.5	238.4	234.2	225.9	215.4
72.5°	194.5	194.5	196.5	196.5	194.5	194.5	194.5	192.4	186.1	181.9	171.5
75°	150.6	150.6	152.7	154.8	150.6	150.6	152.7	148.5	144.3	138.0	131.7
77.5°	113.0	110.8	113.0	113.0	110.8	110.8	110.8	108.8	106.7	100.3	94.1
80°	79.5	77.4	79.5	79.5	79.5	77.4	77.4	75.3	75.3	71.1	64.8
82.5°	54.3	52.3	54.3	54.3	54.3	52.3	52.3	52.3	50.2	48.2	44.0
85°	35.6	33.4	33.4	35.6	33.4	33.4	33.4	33.4	31.4	29.2	27.2
87.5°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	14.7	14.7	14.7	12.6
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°	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8
2.5°	1601.9	1597.7	1610.3	1606.1	1608.2	1597.7	1614.5	1606.1	1616.5	1606.1	1627.0
5°	1574.7	1570.5	1589.4	1587.3	1589.4	1581.1	1599.8	1597.7	1610.3	1601.9	1624.8
7.5°	1545.5	1541.3	1562.2	1564.3	1568.5	1560.1	1585.2	1585.2	1597.7	1595.6	1620.7
10°	1512.0	1514.1	1535.0	1539.1	1547.6	1543.4	1566.3	1572.7	1589.4	1587.3	1618.7
12.5°	1480.6	1480.6	1507.8	1516.1	1522.4	1520.3	1547.6	1555.9	1574.7	1578.9	1608.2
15°	1449.3	1451.3	1476.5	1488.9	1497.3	1495.3	1524.5	1535.0	1558.0	1560.1	1595.6
17.5°	1424.1	1422.1	1449.3	1459.7	1472.3	1470.2	1501.5	1514.1	1537.1	1543.4	1576.9
20°	1403.2	1401.2	1426.3	1438.8	1447.1	1445.1	1476.5	1491.1	1512.0	1516.1	1549.7
22.5°	1378.1	1373.9	1399.1	1409.5	1417.9	1415.7	1443.0	1453.5	1474.4	1478.6	1509.9
25°	1348.8	1344.7	1367.8	1373.9	1380.2	1376.0	1399.1	1405.4	1422.1	1426.3	1457.6
27.5°	1315.4	1304.9	1323.8	1323.8	1328.0	1321.7	1338.4	1344.7	1359.4	1359.4	1388.6
30°	1263.2	1248.5	1259.0	1256.9	1259.0	1250.6	1261.1	1263.2	1273.6	1271.4	1292.4
32.5°	1189.9	1169.0	1175.3	1169.0	1162.7	1150.3	1162.7	1158.6	1166.9	1158.6	1177.4
35°	1089.5	1068.7	1066.5	1058.1	1051.9	1041.5	1041.5	1031.0	1033.1	1026.8	1039.4
37.5°	980.8	953.6	949.4	932.8	922.2	909.7	909.7	901.4	890.9	886.7	897.2
40°	874.2	844.8	834.5	807.2	796.8	784.2	775.8	765.5	761.3	744.5	752.9
42.5°	782.1	750.8	727.8	698.4	688.1	669.2	656.7	644.1	637.9	619.0	627.3
45°	704.7	667.1	642.1	604.3	589.7	568.8	550.0	535.4	520.7	512.4	508.2
47.5°	639.9	600.1	566.7	524.9	501.9	483.1	458.0	443.4	424.6	414.0	407.8
50°	585.6	541.6	504.0	455.9	432.9	412.0	382.6	359.7	343.0	326.3	322.1
52.5°	537.5	491.4	449.6	395.2	368.1	343.0	311.6	286.5	271.8	253.1	250.9
55°	481.0	441.3	395.2	338.8	311.6	286.5	253.1	228.0	209.1	196.5	192.4
57.5°	420.4	382.6	338.8	282.3	255.1	228.0	196.5	173.5	156.9	146.4	144.3
60°	363.9	328.3	286.5	230.1	202.8	179.9	146.4	123.4	108.8	100.3	96.1
62.5°	322.1	288.6	248.9	196.5	171.5	148.5	117.2	96.1	83.6	75.3	71.1
65°	282.3	248.9	213.3	165.2	144.3	123.4	94.1	75.3	62.7	54.3	50.2
67.5°	240.5	211.3	177.7	138.0	117.2	100.3	75.3	58.5	48.2	41.8	37.6
70°	198.6	171.5	144.3	110.8	96.1	79.5	58.5	46.0	35.6	31.4	27.2
72.5°	156.9	135.9	113.0	85.8	73.2	62.7	46.0	33.4	27.2	23.0	18.8
75°	117.2	102.5	83.6	64.8	54.3	46.0	33.4	25.1	20.9	16.8	14.7
77.5°	83.6	71.1	58.5	44.0	39.8	33.4	23.0	18.8	14.7	10.5	8.4
80°	56.4	50.2	39.8	31.4	25.1	23.0	16.8	12.6	8.4	6.3	6.3
82.5°	37.6	31.4	25.1	18.8	16.8	14.7	10.5	8.4	6.3	4.2	4.2
85°	23.0	18.8	14.7	10.5	10.5	8.4	6.3	4.2	2.1	2.1	2.1
87.5°	10.5	8.4	6.3	4.2	4.2	2.1	2.1	2.1	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8
2.5°	1643.7	1631.2	1622.8	1633.2	1637.4	1631.2	1637.4	1647.9	1658.4	1660.4	1631.2
5°	1645.9	1633.2	1629.0	1641.6	1643.7	1641.6	1647.9	1662.6	1675.1	1679.3	1650.1
7.5°	1645.9	1637.4	1635.4	1650.1	1652.1	1650.1	1660.4	1677.2	1689.8	1698.1	1668.8
10°	1641.6	1637.4	1639.6	1652.1	1656.3	1656.3	1670.9	1689.8	1702.2	1710.6	1681.4
12.5°	1635.4	1635.4	1635.4	1650.1	1654.3	1656.3	1668.8	1694.0	1702.2	1714.8	1685.6
15°	1624.8	1624.8	1624.8	1639.6	1645.9	1645.9	1660.4	1683.5	1694.0	1706.4	1677.2
17.5°	1606.1	1606.1	1608.2	1620.7	1627.0	1627.0	1641.6	1666.8	1673.0	1687.7	1658.4
20°	1578.9	1578.9	1581.1	1593.5	1599.8	1595.6	1614.5	1635.4	1641.6	1654.3	1624.8
22.5°	1539.1	1539.1	1539.1	1551.7	1555.9	1553.8	1572.7	1591.4	1591.4	1608.2	1576.9
25°	1480.6	1484.8	1480.6	1493.1	1497.3	1495.3	1512.0	1528.7	1524.5	1543.4	1512.0
27.5°	1409.5	1407.4	1407.4	1417.9	1417.9	1415.7	1428.3	1447.1	1443.0	1455.5	1426.3
30°	1311.2	1317.5	1307.0	1321.7	1315.4	1311.2	1319.6	1336.4	1330.0	1340.5	1317.5
32.5°	1198.2	1189.9	1189.9	1189.9	1194.1	1183.7	1192.1	1200.4	1194.1	1204.6	1179.5
35°	1049.8	1051.9	1045.7	1047.8	1049.8	1037.3	1045.7	1053.9	1045.7	1051.9	1028.9
37.5°	901.4	903.4	888.8	897.2	888.8	884.6	893.0	897.2	888.8	895.0	870.0
40°	752.9	748.7	746.6	746.6	748.7	738.2	744.5	750.8	744.5	748.7	725.7
42.5°	623.2	621.2	617.0	619.0	612.7	610.7	612.7	619.0	612.7	617.0	600.1
45°	510.3	506.1	499.8	501.9	501.9	491.4	497.7	501.9	495.6	497.7	483.1
47.5°	405.7	399.4	399.4	397.4	397.4	393.2	399.4	397.4	391.0	395.2	380.6
50°	315.8	311.6	311.6	311.6	311.6	305.2	307.4	311.6	305.2	305.2	297.0
52.5°	246.7	240.5	236.3	236.3	236.3	234.2	234.2	236.3	230.1	230.1	228.0
55°	186.1	184.1	177.7	177.7	177.7	171.5	173.5	173.5	171.5	171.5	165.2
57.5°	138.0	131.7	127.5	127.5	123.4	123.4	121.4	123.4	119.2	119.2	115.0
60°	91.9	87.8	85.8	83.6	83.6	81.6	83.6	81.6	81.6	79.5	77.4
62.5°	66.9	62.7	58.5	58.5	58.5	56.4	56.4	56.4	56.4	56.4	54.3
65°	48.2	44.0	44.0	41.8	41.8	39.8	39.8	39.8	39.8	39.8	37.6
67.5°	33.4	31.4	29.2	29.2	29.2	29.2	29.2	29.2	27.2	27.2	27.2
70°	25.1	23.0	20.9	20.9	20.9	20.9	20.9	18.8	20.9	20.9	18.8
72.5°	16.8	16.8	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
75°	12.6	12.6	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
77.5°	8.4	8.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
80°	6.3	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0
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: P857878

CATALOG NUMBER: LX4C35D010 EX4C359850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8	1622.8
2.5°	1662.6	1660.4	1656.3	1662.6	1645.9	1639.6	1637.4	1656.3
5°	1685.6	1681.4	1681.4	1687.7	1668.8	1664.6	1660.4	1681.4
7.5°	1706.4	1702.2	1702.2	1708.6	1691.9	1687.7	1683.5	1704.4
10°	1719.0	1719.0	1719.0	1723.2	1708.6	1704.4	1702.2	1723.2
12.5°	1725.3	1725.3	1723.2	1731.5	1712.8	1712.8	1708.6	1729.4
15°	1717.0	1717.0	1717.0	1723.2	1706.4	1702.2	1702.2	1719.0
17.5°	1696.0	1696.0	1694.0	1700.2	1681.4	1681.4	1679.3	1698.1
20°	1664.6	1664.6	1660.4	1668.8	1650.1	1643.7	1641.6	1660.4
22.5°	1614.5	1612.4	1610.3	1614.5	1597.7	1593.5	1591.4	1608.2
25°	1549.7	1547.6	1543.4	1547.6	1528.7	1522.4	1522.4	1535.0
27.5°	1457.6	1457.6	1451.3	1457.6	1436.7	1434.6	1432.5	1447.1
30°	1344.7	1336.4	1332.2	1340.5	1319.6	1319.6	1315.4	1330.0
32.5°	1204.6	1196.2	1194.1	1198.2	1179.5	1173.2	1181.6	1189.9
35°	1043.6	1045.7	1037.3	1037.3	1020.5	1022.6	1024.7	1037.3
37.5°	888.8	884.6	882.5	884.6	872.1	867.9	863.7	876.2
40°	744.5	734.0	731.9	731.9	721.5	719.5	721.5	727.8
42.5°	608.5	606.5	598.1	602.3	591.8	596.0	593.9	593.9
45°	491.4	493.5	485.1	491.4	483.1	476.8	476.8	481.0
47.5°	389.0	389.0	386.8	386.8	380.6	382.6	378.5	384.8
50°	301.1	301.1	297.0	299.1	294.9	294.9	292.8	294.9
52.5°	230.1	228.0	228.0	225.9	221.7	223.8	225.9	221.7
55°	167.3	169.3	165.2	167.3	163.1	165.2	163.1	165.2
57.5°	115.0	117.2	113.0	117.2	113.0	115.0	113.0	113.0
60°	79.5	79.5	77.4	79.5	77.4	77.4	75.3	79.5
62.5°	54.3	54.3	54.3	54.3	54.3	52.3	54.3	54.3
65°	39.8	37.6	37.6	37.6	37.6	37.6	37.6	37.6
67.5°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
70°	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
72.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
75°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	0.0	2.1	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)