

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: P684204

Luminaire Tested: **LX6C30D010 EX6C309050 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C30D010 EX6C309050 6LCSWH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

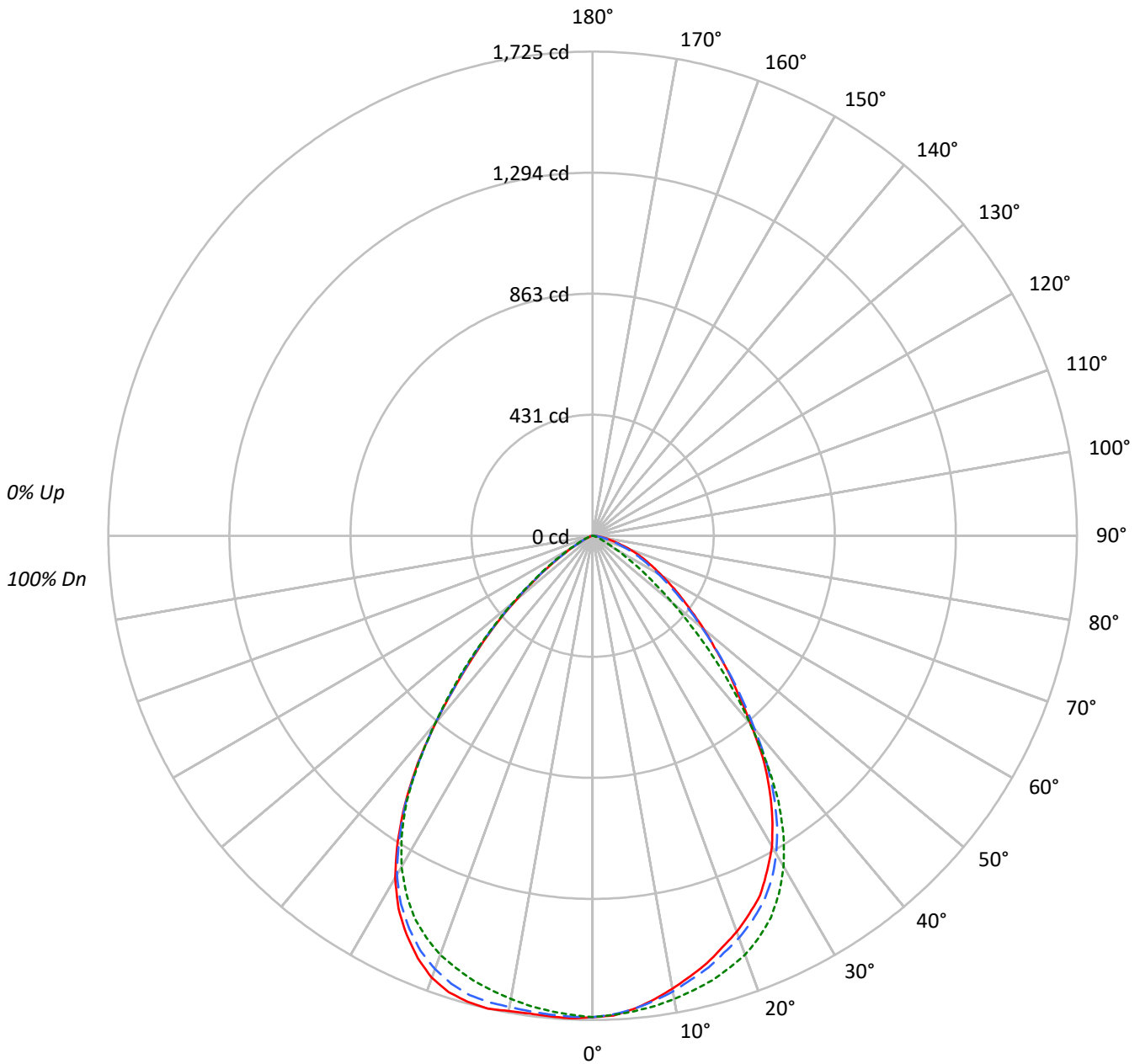
Lumens per Lamp: N/A
Luminaire Lumens: 2877.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V):
Input Current (A_{in}): 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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	94011	94011	94011
5°	93116	93567	94596
10°	91197	93268	95690
15°	89450	93094	97560
20°	87595	92671	97746
25°	85438	90822	94832
30°	80892	86134	89020
35°	73461	77202	77898
40°	62696	62395	62102
45°	52664	46726	45276
50°	43981	31615	30029
55°	37017	19402	17615
60°	31335	10218	8859
65°	27136	5370	4294
70°	22568	3318	2324
75°	16669	2203	1313
80°	13070	1294	663
85°	10441	1321	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	5.6
10°-20°	462.8	16.1
20°-30°	683.3	23.8
30°-40°	704.2	24.5
40°-50°	486.4	16.9
50°-60°	239.7	8.3
60°-70°	97.1	3.4
70°-80°	34.6	1.2
80°-90°	7.2	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°	1307.7	45.5
0°-40°	2011.9	69.9
0°-60°	2738.1	95.2
0°-90°	2877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1715	1715	1715	1715	1715	
5°	1692	1692	1700	1713	1719	160
15°	1576	1593	1640	1694	1719	444
25°	1412	1439	1502	1545	1568	646
35°	1098	1125	1154	1160	1164	680
45°	679	683	603	594	584	525
55°	387	373	203	191	184	350
65°	209	188	41	33	33	208
75°	79	66	10	6	6	88
85°	17	12	2	0	0	20
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°	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9
2.5°	1710.7	1704.5	1708.7	1700.3	1710.7	1700.3	1702.4	1704.5	1702.4	1704.5	1706.6
5°	1692.1	1685.9	1692.1	1681.7	1692.1	1685.9	1685.9	1688.0	1688.0	1690.0	1692.1
7.5°	1667.2	1661.0	1667.2	1656.9	1669.3	1663.1	1663.1	1667.2	1665.1	1667.2	1671.4
10°	1638.3	1629.9	1636.2	1629.9	1642.4	1634.1	1638.3	1638.3	1638.3	1644.4	1648.6
12.5°	1607.2	1598.9	1607.2	1596.8	1609.2	1603.1	1605.1	1611.3	1613.3	1617.5	1619.6
15°	1576.1	1565.8	1569.9	1563.7	1576.1	1569.9	1572.0	1580.2	1580.2	1586.5	1592.7
17.5°	1536.8	1528.4	1536.8	1528.4	1538.8	1534.7	1538.8	1545.0	1545.0	1551.3	1557.4
20°	1501.5	1493.2	1499.5	1493.2	1505.7	1499.5	1501.5	1509.8	1511.9	1518.1	1524.3
22.5°	1458.0	1451.8	1455.9	1449.8	1462.2	1458.0	1460.1	1468.4	1470.5	1474.6	1485.0
25°	1412.5	1400.0	1406.3	1402.1	1414.6	1408.4	1412.5	1420.7	1424.9	1431.1	1439.4
27.5°	1346.2	1340.0	1344.1	1344.1	1354.5	1348.3	1350.3	1358.7	1364.8	1371.0	1381.4
30°	1277.9	1267.5	1271.7	1273.7	1282.0	1277.9	1282.0	1290.3	1292.4	1300.6	1308.9
32.5°	1190.9	1186.7	1195.0	1190.9	1195.0	1195.0	1197.1	1203.3	1207.4	1211.6	1222.0
35°	1097.7	1089.4	1097.7	1093.6	1103.9	1097.7	1103.9	1110.1	1110.1	1118.4	1124.6
37.5°	996.2	985.8	990.0	990.0	994.1	992.1	992.1	1002.4	1004.5	1010.7	1016.9
40°	876.1	871.9	880.2	878.1	880.2	880.2	882.3	888.5	892.6	894.7	896.8
42.5°	768.4	770.4	772.5	772.5	772.5	772.5	772.5	780.8	778.7	785.0	787.0
45°	679.3	671.0	675.2	673.1	679.3	673.1	679.3	685.5	681.4	687.6	683.4
47.5°	588.2	588.2	588.2	586.1	590.3	588.2	592.3	594.4	594.4	594.4	592.3
50°	515.7	509.5	511.5	511.5	513.6	511.5	515.7	517.8	517.8	513.6	505.4
52.5°	445.3	443.2	443.2	447.4	447.4	445.3	445.3	445.3	445.3	439.1	434.9
55°	387.3	383.2	385.2	385.2	385.2	385.2	387.3	385.2	385.2	379.0	372.8
57.5°	335.5	331.4	331.4	331.4	333.4	331.4	331.4	331.4	329.3	323.1	314.8
60°	285.8	283.7	285.8	285.8	287.9	285.8	285.8	285.8	281.7	275.5	267.1
62.5°	244.4	244.4	244.4	246.4	246.4	244.4	244.4	242.3	240.3	231.9	223.7
65°	209.2	207.1	209.2	209.2	211.2	211.2	209.2	207.1	205.1	196.7	188.5
67.5°	174.0	171.9	174.0	174.0	176.0	174.0	174.0	174.0	167.8	163.6	155.3
70°	140.8	138.8	138.8	138.8	140.8	136.7	138.8	138.8	134.7	128.4	120.1
72.5°	107.7	107.7	107.7	107.7	107.7	107.7	105.6	105.6	101.5	95.3	91.1
75°	78.7	78.7	80.8	80.8	78.7	78.7	78.7	76.6	74.5	70.4	66.3
77.5°	58.0	58.0	58.0	58.0	55.9	55.9	55.9	53.8	51.8	49.7	45.6
80°	41.4	41.4	41.4	39.3	41.4	39.3	39.3	39.3	35.2	33.1	31.1
82.5°	29.0	26.9	26.9	26.9	26.9	26.9	26.9	24.8	24.8	22.8	20.7
85°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	14.5	12.5	12.5
87.5°	8.3	10.4	10.4	10.4	10.4	10.4	10.4	8.3	8.3	8.3	6.2
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°	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9
2.5°	1706.6	1706.6	1710.7	1704.5	1714.9	1708.7	1706.6	1716.9	1710.7	1708.7	1712.8
5°	1692.1	1694.2	1696.2	1692.1	1702.4	1696.2	1696.2	1706.6	1702.4	1700.3	1706.6
7.5°	1673.5	1675.5	1679.6	1677.6	1685.9	1681.7	1683.8	1694.2	1690.0	1690.0	1696.2
10°	1650.6	1654.8	1659.0	1659.0	1669.3	1665.1	1665.1	1677.6	1673.5	1675.5	1683.8
12.5°	1623.7	1629.9	1636.2	1638.3	1648.6	1642.4	1644.4	1659.0	1656.9	1659.0	1667.2
15°	1594.7	1603.1	1609.2	1609.2	1621.7	1615.4	1621.7	1636.2	1632.0	1640.3	1650.6
17.5°	1561.6	1569.9	1578.1	1580.2	1592.7	1588.5	1596.8	1611.3	1611.3	1615.4	1627.9
20°	1530.6	1540.9	1545.0	1551.3	1563.7	1561.6	1565.8	1582.3	1582.3	1588.5	1601.0
22.5°	1489.1	1499.5	1507.7	1514.0	1524.3	1524.3	1530.6	1545.0	1545.0	1549.2	1561.6
25°	1443.6	1455.9	1462.2	1468.4	1478.8	1476.7	1482.9	1495.3	1497.4	1501.5	1514.0
27.5°	1385.5	1395.9	1404.2	1408.4	1422.8	1414.6	1420.7	1435.3	1433.2	1437.3	1447.7
30°	1313.1	1323.5	1331.7	1331.7	1344.1	1344.1	1350.3	1356.6	1356.6	1360.7	1369.0
32.5°	1228.1	1240.6	1240.6	1246.8	1255.1	1246.8	1255.1	1263.3	1259.2	1265.4	1271.7
35°	1130.8	1137.0	1139.1	1139.1	1145.3	1143.2	1141.1	1147.4	1143.2	1153.6	1159.8
37.5°	1012.8	1021.0	1016.9	1021.0	1018.9	1012.8	1012.8	1023.1	1014.8	1016.9	1023.1
40°	898.8	898.8	896.8	886.5	888.5	882.3	880.2	882.3	874.0	871.9	880.2
42.5°	780.8	778.7	772.5	758.0	760.1	749.7	741.4	741.4	737.3	735.2	737.3
45°	675.2	668.9	658.6	642.1	637.9	629.6	613.0	608.9	602.7	602.7	604.8
47.5°	577.8	569.6	553.0	534.4	524.0	513.6	497.0	490.8	480.5	476.3	480.5
50°	497.0	482.6	461.8	434.9	424.5	412.2	395.6	385.2	374.8	370.7	368.6
52.5°	422.5	401.8	381.1	348.0	339.6	327.3	304.4	294.1	283.7	275.5	275.5
55°	358.3	339.6	310.7	279.6	267.1	254.8	231.9	217.4	207.1	203.0	198.8
57.5°	300.3	279.6	252.7	219.6	207.1	194.7	171.9	157.4	147.0	140.8	136.7
60°	252.7	229.9	203.0	174.0	159.5	147.0	124.3	109.7	99.4	93.2	89.0
62.5°	207.1	188.5	161.5	134.7	122.2	109.7	91.1	76.6	66.3	62.2	55.9
65°	174.0	155.3	130.5	107.7	97.4	84.9	68.4	55.9	47.7	41.4	37.3
67.5°	140.8	126.3	105.6	84.9	74.5	66.3	51.8	41.4	33.1	29.0	26.9
70°	111.8	97.4	80.8	64.2	58.0	49.7	39.3	29.0	24.8	20.7	18.6
72.5°	82.9	72.5	60.0	47.7	41.4	37.3	26.9	22.8	16.6	14.5	12.5
75°	60.0	51.8	43.5	33.1	29.0	26.9	20.7	14.5	12.5	10.4	8.3
77.5°	41.4	37.3	29.0	22.8	20.7	18.6	14.5	10.4	8.3	6.2	6.2
80°	26.9	22.8	18.6	14.5	14.5	12.5	8.3	6.2	6.2	4.1	4.1
82.5°	16.6	14.5	12.5	10.4	8.3	8.3	6.2	4.1	4.1	2.1	2.1
85°	10.4	8.3	6.2	6.2	4.1	4.1	4.1	2.1	2.1	2.1	2.1
87.5°	4.1	4.1	4.1	2.1	2.1	2.1	2.1	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9
2.5°	1712.8	1712.8	1716.9	1710.7	1714.9	1714.9	1719.0	1710.7	1714.9	1716.9	1721.1
5°	1704.5	1706.6	1710.7	1708.7	1710.7	1710.7	1714.9	1704.5	1712.8	1712.8	1719.0
7.5°	1696.2	1696.2	1700.3	1698.3	1702.4	1704.5	1708.7	1700.3	1708.7	1708.7	1714.9
10°	1685.9	1685.9	1692.1	1690.0	1696.2	1698.3	1704.5	1696.2	1704.5	1706.6	1712.8
12.5°	1671.4	1673.5	1679.6	1679.6	1685.9	1690.0	1696.2	1692.1	1702.4	1704.5	1712.8
15°	1654.8	1659.0	1667.2	1665.1	1671.4	1677.6	1685.9	1679.6	1694.2	1698.3	1706.6
17.5°	1634.1	1638.3	1644.4	1644.4	1650.6	1654.8	1665.1	1661.0	1673.5	1675.5	1685.9
20°	1603.1	1609.2	1617.5	1615.4	1621.7	1625.8	1634.1	1629.9	1642.4	1646.5	1656.9
22.5°	1565.8	1569.9	1576.1	1576.1	1582.3	1586.5	1594.7	1588.5	1601.0	1603.1	1611.3
25°	1516.1	1520.2	1524.3	1526.4	1532.6	1534.7	1538.8	1534.7	1545.0	1547.1	1557.4
27.5°	1451.8	1453.9	1460.1	1460.1	1464.3	1466.3	1472.5	1464.3	1478.8	1478.8	1485.0
30°	1375.2	1373.2	1381.4	1377.3	1381.4	1381.4	1387.6	1383.5	1393.9	1389.7	1395.9
32.5°	1273.7	1277.9	1277.9	1273.7	1282.0	1279.9	1279.9	1275.8	1282.0	1284.1	1288.2
35°	1155.7	1161.9	1161.9	1164.0	1166.1	1159.8	1161.9	1149.5	1159.8	1161.9	1164.0
37.5°	1027.3	1021.0	1025.2	1018.9	1029.3	1016.9	1016.9	1008.7	1016.9	1016.9	1018.9
40°	880.2	878.1	882.3	878.1	876.1	874.0	869.9	863.6	871.9	867.8	874.0
42.5°	741.4	739.3	739.3	735.2	733.2	733.2	729.1	724.9	722.8	722.8	733.2
45°	598.5	602.7	598.5	596.5	600.6	596.5	598.5	590.3	594.4	590.3	594.4
47.5°	478.4	480.5	476.3	472.2	478.4	472.2	472.2	466.0	474.3	474.3	470.1
50°	370.7	368.6	364.5	368.6	366.6	366.6	366.6	360.4	364.5	358.3	362.5
52.5°	273.4	271.3	271.3	269.2	271.3	269.2	269.2	267.1	267.1	265.1	267.1
55°	198.8	196.7	192.6	192.6	192.6	194.7	192.6	190.6	190.6	188.5	190.6
57.5°	134.7	130.5	130.5	130.5	130.5	128.4	128.4	126.3	128.4	126.3	128.4
60°	87.0	87.0	82.9	82.9	82.9	82.9	82.9	80.8	82.9	82.9	82.9
62.5°	53.8	53.8	51.8	49.7	51.8	49.7	49.7	49.7	51.8	49.7	51.8
65°	35.2	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
67.5°	24.8	22.8	22.8	22.8	22.8	22.8	22.8	20.7	22.8	22.8	22.8
70°	16.6	16.6	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
72.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
75°	8.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
77.5°	6.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P684204

CATALOG NUMBER: LX6C30D010 EX6C309050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9	1714.9
2.5°	1714.9	1716.9	1712.8	1714.9	1710.7	1714.9	1716.9	1721.1
5°	1710.7	1712.8	1708.7	1712.8	1708.7	1712.8	1714.9	1719.0
7.5°	1706.6	1710.7	1706.6	1710.7	1706.6	1710.7	1712.8	1716.9
10°	1706.6	1712.8	1708.7	1714.9	1708.7	1712.8	1716.9	1719.0
12.5°	1706.6	1712.8	1710.7	1714.9	1712.8	1716.9	1721.1	1725.2
15°	1702.4	1708.7	1704.5	1710.7	1708.7	1710.7	1719.0	1719.0
17.5°	1679.6	1685.9	1685.9	1690.0	1690.0	1696.2	1700.3	1704.5
20°	1650.6	1656.9	1654.8	1661.0	1661.0	1667.2	1671.4	1675.5
22.5°	1607.2	1615.4	1613.3	1619.6	1617.5	1621.7	1629.9	1627.9
25°	1551.3	1561.6	1559.5	1563.7	1561.6	1561.6	1565.8	1567.8
27.5°	1482.9	1489.1	1487.0	1491.2	1487.0	1491.2	1495.3	1497.4
30°	1393.9	1398.0	1395.9	1398.0	1395.9	1400.0	1402.1	1406.3
32.5°	1286.2	1292.4	1286.2	1290.3	1288.2	1288.2	1296.5	1292.4
35°	1157.7	1159.8	1161.9	1161.9	1157.7	1159.8	1164.0	1164.0
37.5°	1014.8	1025.2	1012.8	1018.9	1016.9	1016.9	1016.9	1023.1
40°	865.7	867.8	863.6	863.6	863.6	861.5	869.9	867.8
42.5°	724.9	727.0	724.9	718.7	720.7	720.7	727.0	718.7
45°	588.2	592.3	590.3	590.3	586.1	586.1	588.2	584.0
47.5°	466.0	470.1	463.9	466.0	461.8	466.0	463.9	468.1
50°	354.1	358.3	356.2	358.3	358.3	354.1	360.4	352.1
52.5°	265.1	267.1	265.1	263.0	261.0	261.0	265.1	263.0
55°	188.5	186.4	186.4	186.4	188.5	188.5	186.4	184.3
57.5°	126.3	126.3	124.3	124.3	126.3	122.2	124.3	122.2
60°	80.8	80.8	80.8	80.8	78.7	80.8	80.8	80.8
62.5°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
65°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
67.5°	20.7	22.8	22.8	22.8	20.7	20.7	20.7	20.7
70°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
72.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)