

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: P684960

Luminaire Tested: **LX6C30D010 EX6309050 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C30D010 EX6309050 6LCSWLI
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

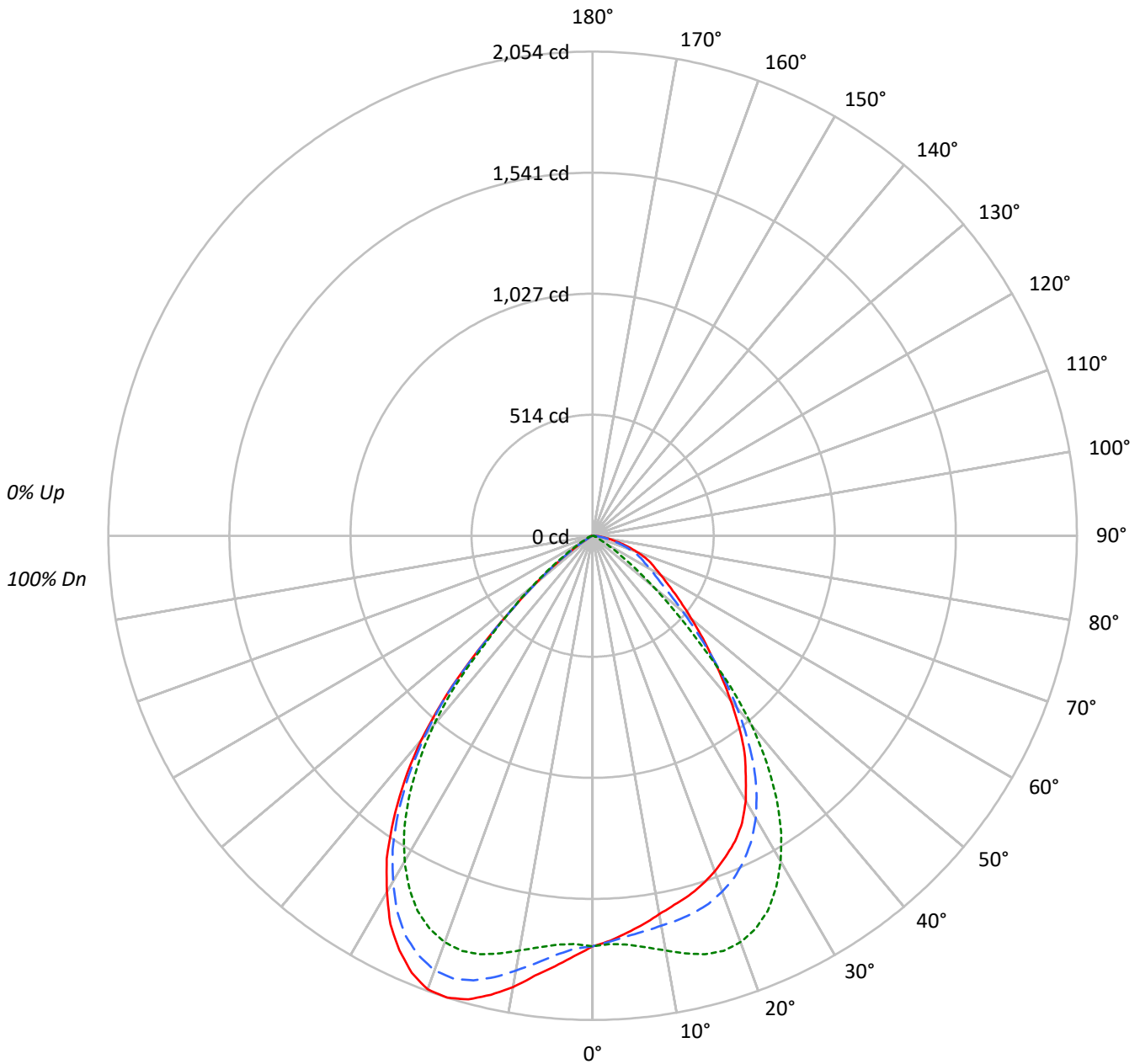
Lumens per Lamp: N/A
Luminaire Lumens: 3183.0 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	95464	95464	95464
5°	92983	95828	100864
10°	90724	99436	108242
15°	89666	104308	115551
20°	88377	107028	119454
25°	86503	106234	117315
30°	82196	100959	110441
35°	75201	91022	98598
40°	65050	75169	80887
45°	54858	49307	52912
50°	46574	28536	26839
55°	40419	13686	10341
60°	36499	6392	2555
65°	35412	3671	856
70°	31752	2933	801
75°	26095	2118	360
80°	19447	1042	0
85°	16794	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	5.3
10°-20°	512.6	16.1
20°-30°	783.2	24.6
30°-40°	819.2	25.7
40°-50°	531.4	16.7
50°-60°	211.0	6.6
60°-70°	100.1	3.1
70°-80°	47.6	1.5
80°-90°	9.7	0.3
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°	1464.0	46.0
0°-40°	2283.2	71.7
0°-60°	3025.6	95.1
0°-90°	3183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3183.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1741	1741	1741	1741	1741	
5°	1690	1705	1741	1785	1833	160
15°	1580	1656	1838	1953	2036	445
25°	1430	1520	1756	1874	1940	655
35°	1124	1192	1360	1440	1473	695
45°	708	701	636	674	682	551
55°	423	360	143	112	108	383
65°	273	226	28	7	7	267
75°	123	100	10	3	2	133
85°	27	17	0	0	0	31
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°	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4
2.5°	1719.7	1723.0	1704.8	1699.7	1713.1	1718.0	1719.7	1714.7	1716.4	1723.0	1723.0
5°	1689.7	1693.1	1676.4	1671.4	1684.7	1688.1	1693.1	1691.4	1696.4	1706.4	1704.8
7.5°	1661.5	1666.5	1648.1	1641.5	1658.1	1666.5	1669.8	1669.8	1676.4	1689.7	1691.4
10°	1629.8	1636.5	1619.8	1616.5	1634.8	1643.1	1644.8	1648.1	1658.1	1676.4	1679.7
12.5°	1603.2	1609.8	1598.2	1593.2	1613.1	1621.5	1624.8	1631.5	1643.1	1666.5	1669.8
15°	1579.9	1584.9	1571.5	1568.2	1588.2	1598.2	1599.8	1609.8	1624.8	1651.4	1656.4
17.5°	1549.9	1553.2	1543.3	1539.9	1559.9	1569.8	1571.5	1583.2	1601.5	1628.2	1636.5
20°	1514.9	1518.3	1508.3	1505.0	1524.9	1536.6	1538.3	1548.3	1569.8	1598.2	1606.5
22.5°	1473.3	1480.0	1468.4	1465.0	1485.0	1495.0	1500.0	1508.3	1529.9	1558.2	1569.8
25°	1430.1	1430.1	1421.7	1420.1	1438.4	1450.0	1448.3	1460.0	1481.6	1510.0	1519.9
27.5°	1373.4	1371.7	1363.4	1361.8	1381.8	1391.8	1388.4	1400.1	1420.1	1448.3	1458.3
30°	1298.5	1301.9	1290.2	1286.8	1303.5	1320.2	1318.5	1330.1	1350.1	1376.8	1383.4
32.5°	1208.6	1211.9	1210.3	1205.3	1220.3	1228.6	1233.6	1241.9	1258.6	1286.8	1293.5
35°	1123.7	1118.7	1112.1	1112.1	1127.0	1140.4	1135.4	1145.4	1162.0	1190.3	1192.0
37.5°	1018.8	1017.2	1013.8	1010.5	1027.2	1030.5	1032.2	1038.8	1053.8	1077.1	1073.8
40°	909.0	910.6	909.0	902.3	912.3	925.6	923.9	927.3	940.6	957.2	952.3
42.5°	805.7	805.7	805.7	799.1	810.7	817.4	820.7	819.1	822.4	837.4	830.7
45°	707.6	709.2	707.6	705.9	707.6	710.9	707.6	705.9	705.9	710.9	700.9
47.5°	622.6	622.6	617.6	612.6	617.6	619.3	614.3	609.3	607.6	606.0	589.4
50°	546.1	544.4	542.7	534.4	539.4	541.1	534.4	531.0	524.4	516.1	496.1
52.5°	479.5	477.8	476.1	467.8	471.2	472.8	466.2	459.5	451.1	444.5	419.5
55°	422.9	421.2	421.2	416.2	412.8	416.2	409.5	404.5	392.9	384.6	359.6
57.5°	374.6	374.6	371.2	366.2	367.9	367.9	361.3	354.6	344.6	334.6	314.7
60°	332.9	332.9	332.9	327.9	327.9	327.9	324.6	318.0	309.7	299.7	279.7
62.5°	299.7	299.7	298.0	293.0	294.6	294.6	291.3	284.7	276.4	269.7	249.7
65°	273.0	273.0	273.0	268.1	268.1	269.7	266.4	259.7	253.0	244.7	226.4
67.5°	239.7	238.1	238.1	234.7	236.4	238.1	234.7	229.8	221.4	216.4	199.8
70°	198.1	199.8	201.4	196.5	198.1	198.1	196.5	191.5	186.5	181.5	166.5
72.5°	161.5	161.5	159.8	158.2	158.2	159.8	156.5	151.5	148.2	144.9	133.2
75°	123.2	121.5	123.2	119.9	119.9	119.9	116.5	114.9	113.2	108.2	99.9
77.5°	89.9	88.2	88.2	84.9	86.6	86.6	84.9	81.6	78.2	76.6	69.9
80°	61.6	61.6	61.6	59.9	59.9	58.3	58.3	56.6	53.2	51.6	48.3
82.5°	41.6	41.6	41.6	40.0	40.0	40.0	38.3	36.6	35.0	33.3	30.0
85°	26.7	26.7	26.7	25.0	25.0	25.0	23.3	23.3	21.6	20.0	16.6
87.5°	15.0	15.0	15.0	13.3	13.3	13.3	13.3	13.3	11.6	10.0	8.3
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°	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4
2.5°	1734.7	1711.4	1726.3	1726.3	1721.4	1734.7	1743.0	1749.7	1748.0	1733.0	1731.3
5°	1721.4	1701.4	1718.0	1719.7	1714.7	1733.0	1744.7	1753.0	1754.7	1741.4	1743.0
7.5°	1711.4	1694.7	1716.4	1723.0	1721.4	1738.0	1751.4	1764.6	1771.3	1761.3	1763.0
10°	1706.4	1693.1	1716.4	1726.3	1728.0	1746.4	1766.3	1784.7	1793.0	1786.3	1791.3
12.5°	1699.7	1691.4	1718.0	1733.0	1739.7	1758.0	1783.0	1804.6	1817.9	1814.6	1824.6
15°	1693.1	1686.4	1718.0	1739.7	1748.0	1764.6	1793.0	1824.6	1839.6	1837.9	1851.2
17.5°	1676.4	1674.8	1708.1	1731.3	1743.0	1763.0	1789.6	1827.9	1842.9	1846.2	1862.9
20°	1649.8	1649.8	1686.4	1711.4	1724.7	1743.0	1776.3	1812.9	1831.3	1834.6	1852.9
22.5°	1613.1	1616.5	1651.4	1676.4	1696.4	1709.7	1744.7	1783.0	1799.6	1804.6	1824.6
25°	1564.9	1568.2	1601.5	1626.5	1648.1	1663.1	1696.4	1731.3	1751.4	1756.3	1771.3
27.5°	1501.6	1508.3	1539.9	1564.9	1583.2	1593.2	1628.2	1664.8	1679.7	1684.7	1699.7
30°	1428.4	1430.1	1461.7	1483.3	1501.6	1510.0	1539.9	1578.2	1589.9	1594.9	1616.5
32.5°	1338.5	1336.8	1366.8	1386.8	1401.7	1411.7	1443.3	1468.4	1480.0	1488.3	1500.0
35°	1230.3	1228.6	1250.2	1273.6	1285.2	1288.5	1320.2	1346.8	1353.5	1360.1	1375.1
37.5°	1108.8	1108.8	1127.0	1138.7	1152.0	1157.0	1172.0	1202.0	1213.6	1211.9	1223.6
40°	980.6	973.9	987.2	998.9	1002.2	1003.8	1018.8	1042.1	1050.4	1050.4	1058.8
42.5°	845.7	835.7	837.4	844.0	847.3	835.7	845.7	860.7	855.7	862.4	864.0
45°	702.5	687.5	680.9	665.9	669.3	657.6	650.9	654.2	652.6	636.0	639.3
47.5°	586.0	559.4	547.7	526.1	521.1	507.8	499.4	484.4	471.2	471.2	462.8
50°	487.8	461.1	437.8	412.8	404.5	392.9	374.6	354.6	344.6	334.6	326.3
52.5°	409.5	381.2	352.9	326.3	314.7	299.7	274.7	254.7	236.4	226.4	216.4
55°	346.3	314.7	284.7	256.4	241.4	226.4	201.4	178.1	156.5	143.2	134.8
57.5°	298.0	268.1	236.4	206.4	193.1	176.5	149.9	124.8	104.9	89.9	81.6
60°	263.0	233.1	204.8	173.1	159.8	143.2	114.9	91.5	71.6	58.3	48.3
62.5°	233.1	206.4	176.5	148.2	134.8	118.2	91.5	68.3	49.9	36.6	28.3
65°	211.4	184.8	159.8	131.5	119.9	103.2	78.2	56.6	40.0	28.3	20.0
67.5°	186.5	163.1	138.2	114.9	103.2	89.9	66.6	48.3	33.3	23.3	16.6
70°	156.5	138.2	116.5	94.9	86.6	74.9	54.9	40.0	26.7	18.3	13.3
72.5°	124.8	109.9	93.2	76.6	69.9	58.3	44.9	31.7	20.0	13.3	10.0
75°	94.9	83.2	69.9	58.3	51.6	44.9	33.3	23.3	15.0	10.0	6.6
77.5°	64.9	59.9	49.9	40.0	36.6	31.7	21.6	15.0	10.0	6.6	3.3
80°	44.9	40.0	33.3	26.7	23.3	20.0	13.3	10.0	5.0	3.3	1.7
82.5°	28.3	23.3	20.0	16.6	15.0	11.6	8.3	5.0	3.3	1.7	1.7
85°	15.0	13.3	11.6	8.3	8.3	6.6	5.0	3.3	1.7	0.0	0.0
87.5°	8.3	6.6	5.0	3.3	3.3	1.7	1.7	1.7	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°	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4
2.5°	1751.4	1751.4	1749.7	1769.6	1746.4	1769.6	1758.0	1769.6	1753.0	1751.4	1753.0
5°	1764.6	1769.6	1771.3	1789.6	1768.0	1796.3	1786.3	1796.3	1784.7	1788.0	1793.0
7.5°	1791.3	1799.6	1798.0	1821.3	1799.6	1831.3	1824.6	1839.6	1827.9	1831.3	1837.9
10°	1821.3	1831.3	1832.9	1856.2	1836.2	1874.5	1866.2	1882.8	1872.9	1877.9	1886.2
12.5°	1856.2	1867.9	1869.6	1896.2	1874.5	1914.5	1909.5	1926.1	1917.8	1922.8	1932.8
15°	1882.8	1899.5	1902.9	1929.4	1906.2	1947.8	1944.5	1966.1	1952.8	1961.1	1969.4
17.5°	1896.2	1911.2	1917.8	1942.8	1922.8	1964.4	1961.1	1979.4	1969.4	1977.8	1987.8
20°	1887.8	1906.2	1911.2	1936.1	1916.2	1957.8	1952.8	1971.1	1961.1	1967.7	1977.8
22.5°	1857.9	1876.2	1882.8	1906.2	1887.8	1926.1	1924.5	1941.1	1927.8	1936.1	1944.5
25°	1804.6	1824.6	1827.9	1849.5	1829.6	1869.6	1866.2	1884.5	1874.5	1879.5	1891.2
27.5°	1728.0	1751.4	1756.3	1774.6	1759.7	1793.0	1793.0	1807.9	1796.3	1796.3	1807.9
30°	1636.5	1659.8	1663.1	1678.1	1664.8	1694.7	1696.4	1711.4	1693.1	1703.1	1704.8
32.5°	1524.9	1539.9	1549.9	1563.2	1543.3	1581.6	1576.5	1588.2	1578.2	1578.2	1586.6
35°	1390.1	1408.4	1413.4	1430.1	1413.4	1443.3	1443.3	1450.0	1440.0	1440.0	1453.3
37.5°	1243.6	1256.9	1258.6	1275.2	1261.9	1286.8	1285.2	1290.2	1280.2	1286.8	1286.8
40°	1072.1	1082.1	1085.4	1093.7	1092.1	1110.4	1108.8	1112.1	1107.1	1108.8	1112.1
42.5°	872.4	885.6	892.3	899.0	889.0	914.0	909.0	914.0	912.3	914.0	919.0
45°	642.6	652.6	657.6	659.3	655.9	670.9	682.5	672.6	674.2	670.9	677.6
47.5°	464.5	466.2	462.8	472.8	464.5	471.2	474.5	476.1	466.2	464.5	471.2
50°	318.0	326.3	314.7	319.6	318.0	324.6	321.3	323.0	313.0	318.0	314.7
52.5°	211.4	209.7	206.4	208.1	204.8	204.8	204.8	208.1	201.4	198.1	194.8
55°	128.2	124.8	118.2	116.5	116.5	118.2	114.9	111.6	111.6	109.9	109.9
57.5°	74.9	69.9	66.6	64.9	61.6	59.9	58.3	58.3	54.9	54.9	54.9
60°	41.6	36.6	33.3	30.0	30.0	28.3	26.7	25.0	25.0	25.0	23.3
62.5°	21.6	18.3	15.0	13.3	13.3	11.6	10.0	10.0	10.0	10.0	8.3
65°	15.0	11.6	10.0	8.3	8.3	6.6	6.6	6.6	6.6	6.6	6.6
67.5°	11.6	10.0	8.3	6.6	6.6	6.6	5.0	5.0	5.0	5.0	5.0
70°	10.0	6.6	6.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	6.6	6.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
80°	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	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: P684960

CATALOG NUMBER: LX6C30D010 EX6309050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4	1741.4
2.5°	1768.0	1766.3	1768.0	1771.3	1764.6	1784.7	1774.6	1784.7
5°	1806.3	1807.9	1809.6	1814.6	1806.3	1831.3	1817.9	1832.9
7.5°	1856.2	1857.9	1859.6	1864.6	1859.6	1884.5	1869.6	1882.8
10°	1907.9	1911.2	1911.2	1919.5	1914.5	1937.8	1927.8	1944.5
12.5°	1956.1	1959.4	1962.8	1967.7	1964.4	1989.4	1981.1	1994.4
15°	1994.4	2001.0	2002.7	2009.3	2006.0	2032.7	2022.7	2036.0
17.5°	2012.7	2019.4	2019.4	2027.7	2024.4	2052.6	2039.3	2054.3
20°	2002.7	2007.7	2009.3	2017.7	2014.4	2042.7	2029.4	2047.6
22.5°	1971.1	1972.7	1974.4	1982.8	1981.1	2006.0	1994.4	2006.0
25°	1912.8	1917.8	1916.2	1922.8	1922.8	1942.8	1929.4	1939.5
27.5°	1829.6	1834.6	1834.6	1842.9	1836.2	1856.2	1842.9	1857.9
30°	1728.0	1733.0	1729.7	1736.4	1729.7	1749.7	1739.7	1744.7
32.5°	1606.5	1606.5	1608.1	1609.8	1606.5	1624.8	1614.8	1624.8
35°	1461.7	1465.0	1466.7	1468.4	1465.0	1478.3	1466.7	1473.3
37.5°	1298.5	1306.9	1305.2	1306.9	1301.9	1318.5	1308.5	1311.9
40°	1123.7	1123.7	1122.0	1125.4	1120.4	1133.7	1127.0	1130.3
42.5°	920.6	925.6	919.0	927.3	914.0	932.2	925.6	920.6
45°	690.9	684.2	682.5	684.2	679.2	680.9	685.9	682.5
47.5°	471.2	471.2	467.8	462.8	469.5	471.2	464.5	464.5
50°	316.3	316.3	313.0	311.3	314.7	313.0	309.7	314.7
52.5°	201.4	194.8	194.8	198.1	194.8	191.5	196.5	193.1
55°	109.9	106.6	106.6	109.9	106.6	106.6	104.9	108.2
57.5°	53.2	54.9	53.2	53.2	53.2	53.2	51.6	53.2
60°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
62.5°	10.0	10.0	8.3	8.3	8.3	8.3	8.3	8.3
65°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
67.5°	5.0	5.0	5.0	5.0	5.0	6.6	5.0	5.0
70°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	5.0	5.0	6.6	6.6	6.6	6.6	6.6	6.6
75°	3.3	3.3	3.3	1.7	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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)