

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: P684945

Luminaire Tested: **LX6C30D010 EX6309030 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684945
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 EX6309030 6LCSWLI
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

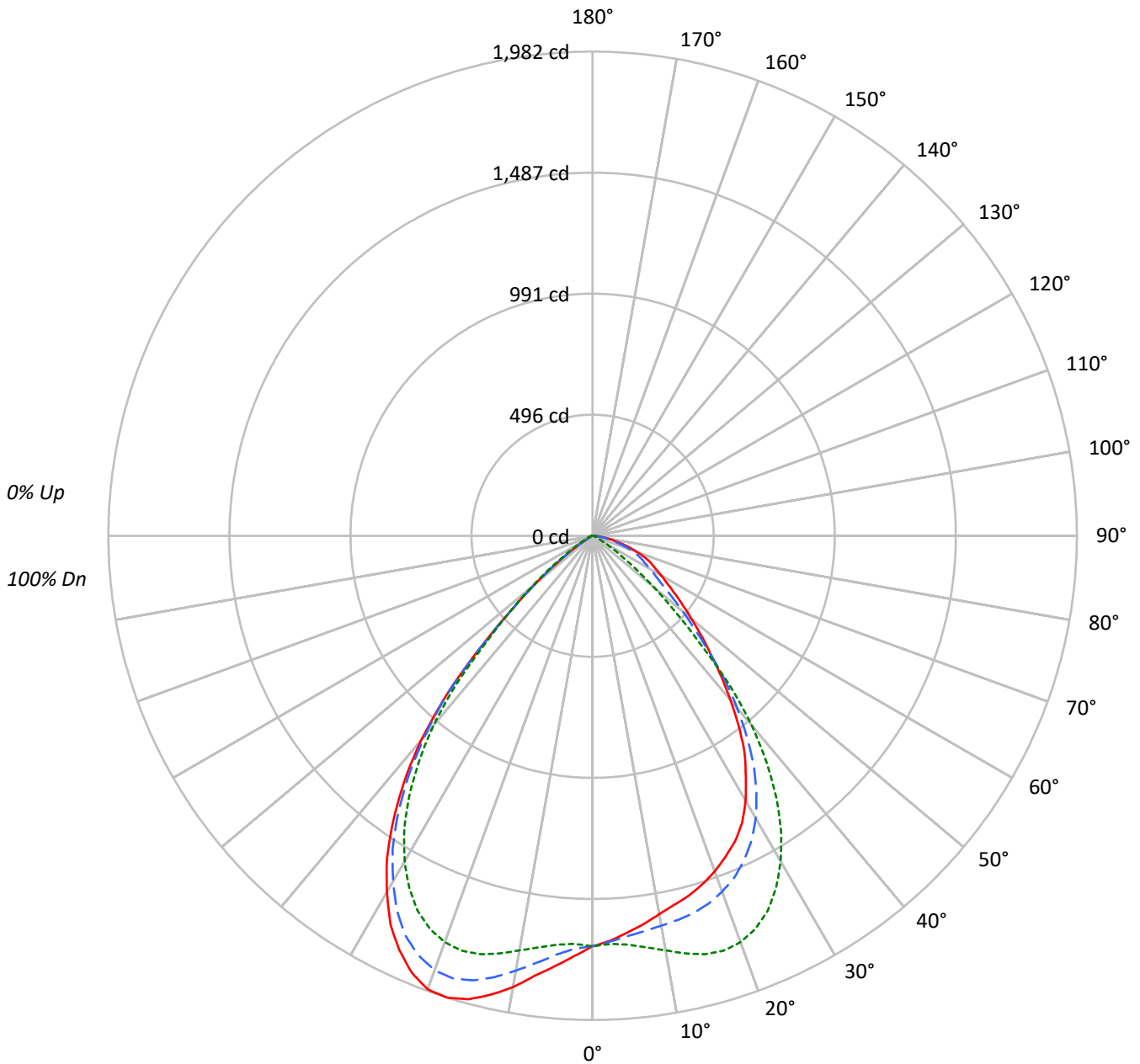
Lumens per Lamp: N/A
Luminaire Lumens: 3071.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	92103	92103	92103
5°	89715	92455	97314
10°	87529	95935	104429
15°	86510	100636	111488
20°	85267	103259	115253
25°	83454	102496	113184
30°	79303	97407	106554
35°	72558	87823	95131
40°	62760	72529	78046
45°	52928	47571	51052
50°	44928	27539	25893
55°	38995	13199	9978
60°	35216	6162	2467
65°	34167	3541	830
70°	30630	2837	769
75°	25184	2055	339
80°	18752	1010	0
85°	16165	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	5.3
10°-20°	494.6	16.1
20°-30°	755.7	24.6
30°-40°	790.4	25.7
40°-50°	512.7	16.7
50°-60°	203.6	6.6
60°-70°	96.6	3.1
70°-80°	45.9	1.5
80°-90°	9.4	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°	1412.5	46.0
0°-40°	2202.9	71.7
0°-60°	2919.1	95.1
0°-90°	3071.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3071.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1680	1680	1680	1680	1680	
5°	1630	1645	1680	1722	1768	154
15°	1524	1598	1773	1884	1964	430
25°	1380	1466	1694	1809	1871	632
35°	1084	1150	1312	1389	1422	670
45°	683	676	614	650	658	531
55°	408	347	138	108	104	370
65°	263	218	27	6	6	257
75°	119	96	10	3	2	128
85°	26	16	0	0	0	30
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°	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1
2.5°	1659.2	1662.4	1644.8	1639.9	1652.8	1657.6	1659.2	1654.4	1656.0	1662.4	1662.4
5°	1630.3	1633.5	1617.4	1612.6	1625.4	1628.7	1633.5	1631.9	1636.7	1646.3	1644.8
7.5°	1603.0	1607.8	1590.1	1583.7	1599.8	1607.8	1611.0	1611.0	1617.4	1630.3	1631.9
10°	1572.4	1578.9	1562.8	1559.6	1577.3	1585.3	1586.9	1590.1	1599.8	1617.4	1620.6
12.5°	1546.8	1553.2	1542.0	1537.1	1556.4	1564.4	1567.6	1574.1	1585.3	1607.8	1611.0
15°	1524.3	1529.1	1516.2	1513.0	1532.3	1542.0	1543.5	1553.2	1567.6	1593.3	1598.2
17.5°	1495.4	1498.6	1489.0	1485.8	1505.0	1514.6	1516.2	1527.5	1545.2	1570.9	1578.9
20°	1461.6	1464.9	1455.2	1452.0	1471.3	1482.5	1484.1	1493.8	1514.6	1542.0	1550.0
22.5°	1421.5	1427.9	1416.7	1413.4	1432.8	1442.3	1447.2	1455.2	1476.1	1503.4	1514.6
25°	1379.7	1379.7	1371.7	1370.1	1387.8	1399.0	1397.4	1408.6	1429.5	1456.8	1466.4
27.5°	1325.1	1323.5	1315.5	1313.9	1333.1	1342.8	1339.5	1350.8	1370.1	1397.4	1407.0
30°	1252.8	1256.0	1244.8	1241.6	1257.7	1273.7	1272.1	1283.3	1302.6	1328.3	1334.8
32.5°	1166.1	1169.3	1167.7	1162.9	1177.3	1185.4	1190.2	1198.2	1214.3	1241.6	1248.0
35°	1084.2	1079.3	1072.9	1072.9	1087.4	1100.2	1095.4	1105.1	1121.1	1148.4	1150.0
37.5°	983.0	981.4	978.2	975.0	991.0	994.2	995.9	1002.3	1016.7	1039.2	1036.0
40°	877.0	878.6	877.0	870.5	880.2	893.0	891.4	894.7	907.5	923.5	918.8
42.5°	777.4	777.4	777.4	771.0	782.2	788.7	791.9	790.2	793.4	807.9	801.5
45°	682.7	684.2	682.7	681.0	682.7	685.9	682.7	681.0	681.0	685.9	676.2
47.5°	600.7	600.7	595.9	591.1	595.9	597.5	592.7	587.9	586.2	584.7	568.6
50°	526.8	525.2	523.6	515.6	520.4	522.0	515.6	512.4	506.0	497.9	478.7
52.5°	462.6	461.0	459.4	451.3	454.6	456.2	449.8	443.3	435.3	428.9	404.8
55°	408.0	406.3	406.3	401.6	398.3	401.6	395.1	390.3	379.1	371.0	346.9
57.5°	361.4	361.4	358.2	353.3	355.0	355.0	348.6	342.1	332.5	322.9	303.6
60°	321.2	321.2	321.2	316.4	316.4	316.4	313.2	306.8	298.8	289.1	269.9
62.5°	289.1	289.1	287.5	282.7	284.3	284.3	281.1	274.7	266.7	260.2	240.9
65°	263.4	263.4	263.4	258.6	258.6	260.2	257.0	250.6	244.1	236.1	218.4
67.5°	231.3	229.7	229.7	226.4	228.1	229.7	226.4	221.7	213.6	208.8	192.8
70°	191.1	192.8	194.3	189.6	191.1	191.1	189.6	184.7	179.9	175.1	160.6
72.5°	155.8	155.8	154.2	152.6	152.6	154.2	151.0	146.2	143.0	139.8	128.5
75°	118.9	117.2	118.9	115.7	115.7	115.7	112.4	110.8	109.2	104.4	96.3
77.5°	86.8	85.1	85.1	81.9	83.6	83.6	81.9	78.7	75.5	73.9	67.4
80°	59.4	59.4	59.4	57.8	57.8	56.2	56.2	54.6	51.4	49.8	46.6
82.5°	40.1	40.1	40.1	38.6	38.6	38.6	36.9	35.3	33.7	32.1	28.9
85°	25.7	25.7	25.7	24.1	24.1	24.1	22.5	22.5	20.9	19.3	16.1
87.5°	14.4	14.4	14.4	12.9	12.9	12.9	12.9	12.9	11.2	9.7	8.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1
2.5°	1673.6	1651.2	1665.6	1665.6	1660.8	1673.6	1681.7	1688.1	1686.5	1672.1	1670.4
5°	1660.8	1641.5	1657.6	1659.2	1654.4	1672.1	1683.3	1691.3	1692.9	1680.1	1681.7
7.5°	1651.2	1635.1	1656.0	1662.4	1660.8	1676.9	1689.7	1702.5	1709.0	1699.3	1701.0
10°	1646.3	1633.5	1656.0	1665.6	1667.2	1684.9	1704.2	1721.9	1729.9	1723.4	1728.3
12.5°	1639.9	1631.9	1657.6	1672.1	1678.5	1696.1	1720.2	1741.1	1754.0	1750.8	1760.4
15°	1633.5	1627.1	1657.6	1678.5	1686.5	1702.5	1729.9	1760.4	1774.9	1773.2	1786.1
17.5°	1617.4	1615.9	1648.0	1670.4	1681.7	1701.0	1726.6	1763.6	1778.1	1781.3	1797.3
20°	1591.8	1591.8	1627.1	1651.2	1664.0	1681.7	1713.8	1749.1	1766.8	1770.0	1787.7
22.5°	1556.4	1559.6	1593.3	1617.4	1636.7	1649.5	1683.3	1720.2	1736.3	1741.1	1760.4
25°	1509.8	1513.0	1545.2	1569.2	1590.1	1604.6	1636.7	1670.4	1689.7	1694.5	1709.0
27.5°	1448.8	1455.2	1485.8	1509.8	1527.5	1537.1	1570.9	1606.2	1620.6	1625.4	1639.9
30°	1378.1	1379.7	1410.2	1431.1	1448.8	1456.8	1485.8	1522.7	1533.9	1538.8	1559.6
32.5°	1291.4	1289.8	1318.7	1338.0	1352.4	1362.1	1392.5	1416.7	1427.9	1435.9	1447.2
35°	1187.0	1185.4	1206.2	1228.8	1240.0	1243.2	1273.7	1299.4	1305.9	1312.3	1326.7
37.5°	1069.7	1069.7	1087.4	1098.7	1111.5	1116.3	1130.8	1159.7	1170.9	1169.3	1180.5
40°	946.1	939.7	952.5	963.7	966.9	968.5	983.0	1005.5	1013.5	1013.5	1021.5
42.5°	816.0	806.3	807.9	814.3	817.5	806.3	816.0	830.4	825.6	832.0	833.6
45°	677.8	663.3	656.9	642.5	645.7	634.4	628.0	631.2	629.7	613.6	616.8
47.5°	565.4	539.7	528.4	507.6	502.8	489.9	481.9	467.4	454.6	454.6	446.5
50°	470.6	444.9	422.4	398.3	390.3	379.1	361.4	342.1	332.5	322.9	314.8
52.5°	395.1	367.8	340.5	314.8	303.6	289.1	265.0	245.8	228.1	218.4	208.8
55°	334.1	303.6	274.7	247.3	232.9	218.4	194.3	171.9	151.0	138.1	130.1
57.5°	287.5	258.6	228.1	199.2	186.3	170.2	144.6	120.4	101.2	86.8	78.7
60°	253.8	224.9	197.6	167.0	154.2	138.1	110.8	88.3	69.1	56.2	46.6
62.5°	224.9	199.2	170.2	143.0	130.1	114.0	88.3	65.9	48.2	35.3	27.3
65°	204.0	178.3	154.2	126.9	115.7	99.6	75.5	54.6	38.6	27.3	19.3
67.5°	179.9	157.4	133.3	110.8	99.6	86.8	64.2	46.6	32.1	22.5	16.1
70°	151.0	133.3	112.4	91.6	83.6	72.3	53.0	38.6	25.7	17.7	12.9
72.5°	120.4	106.0	90.0	73.9	67.4	56.2	43.3	30.5	19.3	12.9	9.7
75°	91.6	80.3	67.4	56.2	49.8	43.3	32.1	22.5	14.4	9.7	6.4
77.5°	62.7	57.8	48.2	38.6	35.3	30.5	20.9	14.4	9.7	6.4	3.2
80°	43.3	38.6	32.1	25.7	22.5	19.3	12.9	9.7	4.8	3.2	1.6
82.5°	27.3	22.5	19.3	16.1	14.4	11.2	8.0	4.8	3.2	1.6	1.6
85°	14.4	12.9	11.2	8.0	8.0	6.4	4.8	3.2	1.6	0.0	0.0
87.5°	8.0	6.4	4.8	3.2	3.2	1.6	1.6	1.6	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°	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1
2.5°	1689.7	1689.7	1688.1	1707.4	1684.9	1707.4	1696.1	1707.4	1691.3	1689.7	1691.3
5°	1702.5	1707.4	1709.0	1726.6	1705.8	1733.1	1723.4	1733.1	1721.9	1725.1	1729.9
7.5°	1728.3	1736.3	1734.7	1757.2	1736.3	1766.8	1760.4	1774.9	1763.6	1766.8	1773.2
10°	1757.2	1766.8	1768.4	1790.9	1771.6	1808.6	1800.5	1816.6	1807.0	1811.8	1819.8
12.5°	1790.9	1802.2	1803.8	1829.4	1808.6	1847.1	1842.3	1858.4	1850.3	1855.2	1864.8
15°	1816.6	1832.6	1835.9	1861.6	1839.1	1879.2	1876.0	1896.9	1884.1	1892.1	1900.1
17.5°	1829.4	1843.9	1850.3	1874.4	1855.2	1895.3	1892.1	1909.8	1900.1	1908.2	1917.8
20°	1821.4	1839.1	1843.9	1868.0	1848.8	1888.9	1884.1	1901.8	1892.1	1898.5	1908.2
22.5°	1792.5	1810.2	1816.6	1839.1	1821.4	1858.4	1856.8	1872.8	1860.0	1868.0	1876.0
25°	1741.1	1760.4	1763.6	1784.5	1765.2	1803.8	1800.5	1818.2	1808.6	1813.4	1824.6
27.5°	1667.2	1689.7	1694.5	1712.2	1697.8	1729.9	1729.9	1744.3	1733.1	1733.1	1744.3
30°	1578.9	1601.4	1604.6	1619.1	1606.2	1635.1	1636.7	1651.2	1633.5	1643.1	1644.8
32.5°	1471.3	1485.8	1495.4	1508.2	1489.0	1525.9	1521.1	1532.3	1522.7	1522.7	1530.7
35°	1341.2	1358.9	1363.7	1379.7	1363.7	1392.5	1392.5	1399.0	1389.3	1389.3	1402.2
37.5°	1199.8	1212.7	1214.3	1230.3	1217.5	1241.6	1240.0	1244.8	1235.2	1241.6	1241.6
40°	1034.4	1044.0	1047.2	1055.3	1053.7	1071.3	1069.7	1072.9	1068.1	1069.7	1072.9
42.5°	841.7	854.5	860.9	867.3	857.7	881.8	877.0	881.8	880.2	881.8	886.6
45°	620.0	629.7	634.4	636.1	632.9	647.3	658.5	648.9	650.5	647.3	653.7
47.5°	448.1	449.8	446.5	456.2	448.1	454.6	457.8	459.4	449.8	448.1	454.6
50°	306.8	314.8	303.6	308.4	306.8	313.2	310.0	311.6	302.0	306.8	303.6
52.5°	204.0	202.4	199.2	200.8	197.6	197.6	197.6	200.8	194.3	191.1	187.9
55°	123.7	120.4	114.0	112.4	112.4	114.0	110.8	107.6	107.6	106.0	106.0
57.5°	72.3	67.4	64.2	62.7	59.4	57.8	56.2	56.2	53.0	53.0	53.0
60°	40.1	35.3	32.1	28.9	28.9	27.3	25.7	24.1	24.1	24.1	22.5
62.5°	20.9	17.7	14.4	12.9	12.9	11.2	9.7	9.7	9.7	9.7	8.0
65°	14.4	11.2	9.7	8.0	8.0	6.4	6.4	6.4	6.4	6.4	6.4
67.5°	11.2	9.7	8.0	6.4	6.4	6.4	4.8	4.8	4.8	4.8	4.8
70°	9.7	6.4	6.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	6.4	6.4	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
75°	4.8	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
80°	1.6	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: P684945

CATALOG NUMBER: LX6C30D010 EX6309030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1	1680.1
2.5°	1705.8	1704.2	1705.8	1709.0	1702.5	1721.9	1712.2	1721.9
5°	1742.7	1744.3	1745.9	1750.8	1742.7	1766.8	1754.0	1768.4
7.5°	1790.9	1792.5	1794.1	1799.0	1794.1	1818.2	1803.8	1816.6
10°	1840.7	1843.9	1843.9	1852.0	1847.1	1869.6	1860.0	1876.0
12.5°	1887.3	1890.5	1893.7	1898.5	1895.3	1919.4	1911.4	1924.2
15°	1924.2	1930.6	1932.2	1938.6	1935.4	1961.2	1951.5	1964.4
17.5°	1941.9	1948.3	1948.3	1956.3	1953.1	1980.4	1967.6	1982.1
20°	1932.2	1937.1	1938.6	1946.7	1943.5	1970.8	1958.0	1975.6
22.5°	1901.8	1903.3	1905.0	1913.0	1911.4	1935.4	1924.2	1935.4
25°	1845.5	1850.3	1848.8	1855.2	1855.2	1874.4	1861.6	1871.2
27.5°	1765.2	1770.0	1770.0	1778.1	1771.6	1790.9	1778.1	1792.5
30°	1667.2	1672.1	1668.9	1675.3	1668.9	1688.1	1678.5	1683.3
32.5°	1550.0	1550.0	1551.6	1553.2	1550.0	1567.6	1558.0	1567.6
35°	1410.2	1413.4	1415.1	1416.7	1413.4	1426.3	1415.1	1421.5
37.5°	1252.8	1260.9	1259.2	1260.9	1256.0	1272.1	1262.4	1265.7
40°	1084.2	1084.2	1082.5	1085.8	1081.0	1093.8	1087.4	1090.6
42.5°	888.2	893.0	886.6	894.7	881.8	899.4	893.0	888.2
45°	666.6	660.1	658.5	660.1	655.3	656.9	661.8	658.5
47.5°	454.6	454.6	451.3	446.5	453.0	454.6	448.1	448.1
50°	305.2	305.2	302.0	300.3	303.6	302.0	298.8	303.6
52.5°	194.3	187.9	187.9	191.1	187.9	184.7	189.6	186.3
55°	106.0	102.8	102.8	106.0	102.8	102.8	101.2	104.4
57.5°	51.4	53.0	51.4	51.4	51.4	51.4	49.8	51.4
60°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
62.5°	9.7	9.7	8.0	8.0	8.0	8.0	8.0	8.0
65°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
67.5°	4.8	4.8	4.8	4.8	4.8	6.4	4.8	4.8
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
72.5°	4.8	4.8	6.4	6.4	6.4	6.4	6.4	6.4
75°	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6
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)