

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: P684955

Luminaire Tested: **LX6C30D010 EX6309040 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684955
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 EX6309040 6LCSWLI
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

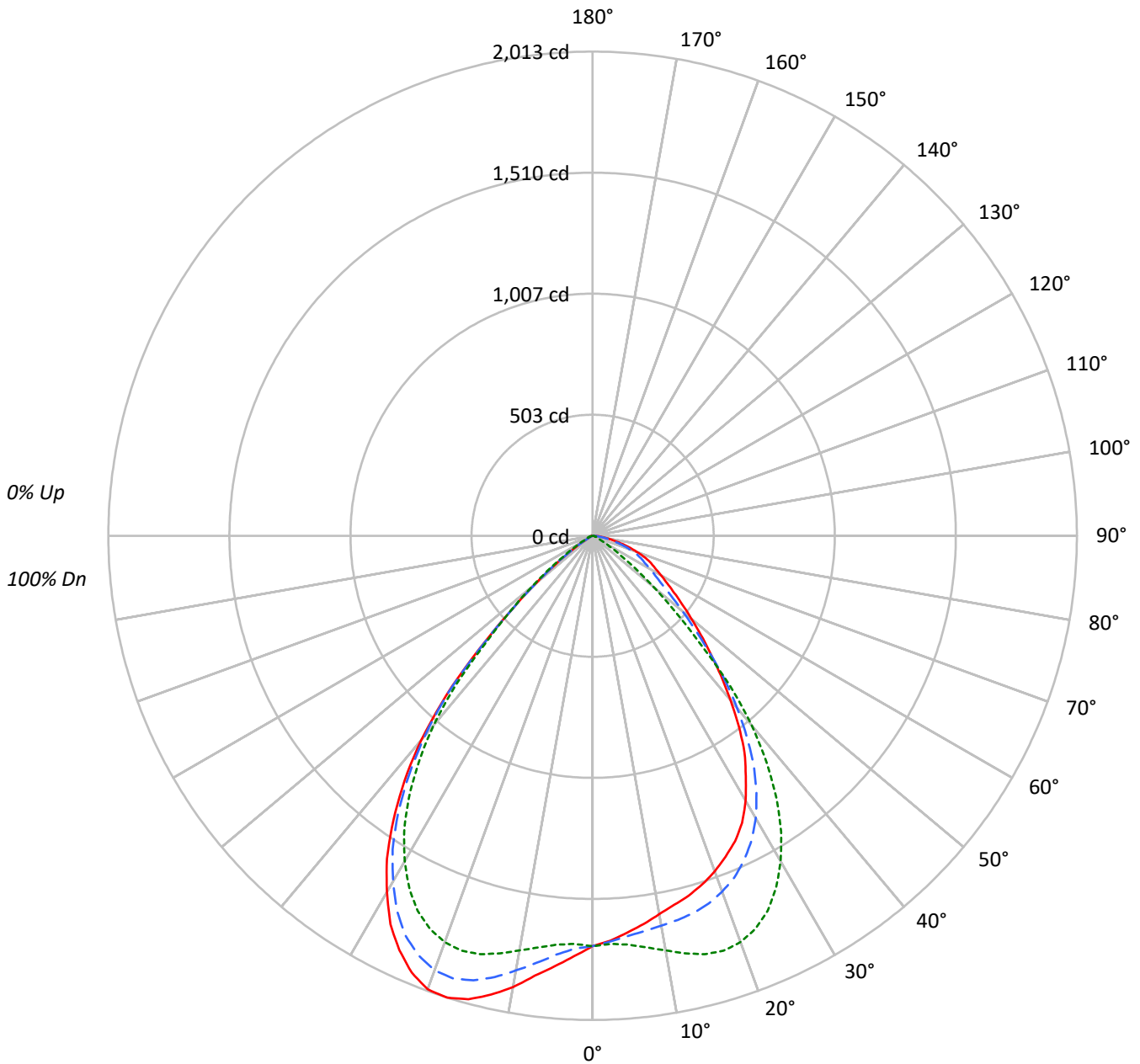
Lumens per Lamp: N/A
Luminaire Lumens: 3119.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	93540	93540	93540
5°	91118	93897	98833
10°	88898	97438	106066
15°	87861	102214	113230
20°	86603	104875	117056
25°	84761	104099	114956
30°	80544	98927	108219
35°	73689	89195	96617
40°	63741	73659	79263
45°	53750	48315	51850
50°	45636	27965	26293
55°	39607	13409	10131
60°	35765	6260	2500
65°	34699	3593	843
70°	31111	2885	785
75°	25565	2076	360
80°	19037	1010	0
85°	16417	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	5.3
10°-20°	502.3	16.1
20°-30°	767.5	24.6
30°-40°	802.7	25.7
40°-50°	520.7	16.7
50°-60°	206.8	6.6
60°-70°	98.1	3.1
70°-80°	46.6	1.5
80°-90°	9.5	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°	1434.6	46.0
0°-40°	2237.3	71.7
0°-60°	2964.8	95.1
0°-90°	3119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3119.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1706	1706	1706	1706	1706	
5°	1656	1670	1706	1749	1796	156
15°	1548	1623	1801	1914	1995	436
25°	1401	1489	1721	1837	1900	642
35°	1101	1168	1333	1411	1444	681
45°	693	687	623	661	669	539
55°	414	352	140	109	106	375
65°	268	222	28	6	6	261
75°	121	98	10	3	2	130
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°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1685.1	1688.4	1670.5	1665.6	1678.6	1683.5	1685.1	1680.2	1681.9	1688.4	1688.4
5°	1655.8	1659.0	1642.7	1637.8	1650.9	1654.2	1659.0	1657.4	1662.3	1672.1	1670.5
7.5°	1628.0	1633.0	1615.0	1608.5	1624.8	1633.0	1636.2	1636.2	1642.7	1655.8	1657.4
10°	1597.0	1603.6	1587.3	1584.0	1601.9	1610.1	1611.7	1615.0	1624.8	1642.7	1646.0
12.5°	1571.0	1577.5	1566.1	1561.2	1580.7	1588.9	1592.1	1598.7	1610.1	1633.0	1636.2
15°	1548.1	1553.0	1539.9	1536.7	1556.2	1566.1	1567.7	1577.5	1592.1	1618.2	1623.1
17.5°	1518.7	1522.0	1512.2	1509.0	1528.5	1538.3	1539.9	1551.3	1569.3	1595.4	1603.6
20°	1484.5	1487.8	1478.0	1474.7	1494.3	1505.7	1507.3	1517.1	1538.3	1566.1	1574.2
22.5°	1443.7	1450.2	1438.8	1435.5	1455.1	1464.9	1469.8	1478.0	1499.2	1526.9	1538.3
25°	1401.3	1401.3	1393.2	1391.5	1409.5	1420.9	1419.2	1430.6	1451.8	1479.6	1489.4
27.5°	1345.8	1344.2	1336.0	1334.4	1354.0	1363.8	1360.5	1371.9	1391.5	1419.2	1429.0
30°	1272.4	1275.7	1264.3	1261.0	1277.3	1293.6	1292.0	1303.4	1323.0	1349.1	1355.6
32.5°	1184.3	1187.6	1186.0	1181.1	1195.7	1203.9	1208.8	1216.9	1233.3	1261.0	1267.5
35°	1101.1	1096.2	1089.7	1089.7	1104.4	1117.4	1112.5	1122.3	1138.6	1166.4	1168.0
37.5°	998.4	996.7	993.5	990.2	1006.5	1009.8	1011.4	1017.9	1032.6	1055.4	1052.2
40°	890.7	892.3	890.7	884.1	893.9	907.0	905.3	908.7	921.7	938.0	933.1
42.5°	789.5	789.5	789.5	783.0	794.4	801.0	804.2	802.6	805.8	820.6	814.0
45°	693.3	694.9	693.3	691.7	693.3	696.6	693.3	691.7	691.7	696.6	686.8
47.5°	610.1	610.1	605.2	600.3	605.2	606.8	602.0	597.1	595.4	593.8	577.5
50°	535.1	533.4	531.8	523.7	528.5	530.2	523.7	520.4	513.9	505.7	486.2
52.5°	469.8	468.2	466.5	458.4	461.7	463.3	456.8	450.2	442.1	435.6	411.1
55°	414.4	412.7	412.7	407.9	404.5	407.9	401.3	396.4	385.0	376.8	352.4
57.5°	367.0	367.0	363.8	358.9	360.5	360.5	354.0	347.5	337.7	327.9	308.3
60°	326.2	326.2	326.2	321.3	321.3	321.3	318.1	311.6	303.4	293.6	274.1
62.5°	293.6	293.6	292.0	287.1	288.7	288.7	285.5	279.0	270.8	264.3	244.7
65°	267.5	267.5	267.5	262.7	262.7	264.3	261.0	254.5	248.0	239.8	221.8
67.5°	234.9	233.3	233.3	230.0	231.6	233.3	230.0	225.1	217.0	212.1	195.8
70°	194.1	195.8	197.4	192.5	194.1	194.1	192.5	187.6	182.7	177.8	163.2
72.5°	158.2	158.2	156.6	155.0	155.0	156.6	153.3	148.4	145.2	141.9	130.5
75°	120.7	119.1	120.7	117.5	117.5	117.5	114.2	112.6	110.9	106.0	97.9
77.5°	88.1	86.5	86.5	83.2	84.9	84.9	83.2	80.0	76.6	75.0	68.5
80°	60.3	60.3	60.3	58.7	58.7	57.1	57.1	55.5	52.2	50.6	47.3
82.5°	40.8	40.8	40.8	39.2	39.2	39.2	37.5	35.9	34.3	32.6	29.4
85°	26.1	26.1	26.1	24.5	24.5	24.5	22.8	22.8	21.2	19.6	16.3
87.5°	14.7	14.7	14.7	13.1	13.1	13.1	13.1	13.1	11.4	9.8	8.2
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°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1699.8	1677.0	1691.6	1691.6	1686.8	1699.8	1708.0	1714.5	1712.8	1698.2	1696.5
5°	1686.8	1667.2	1683.5	1685.1	1680.2	1698.2	1709.6	1717.7	1719.4	1706.3	1708.0
7.5°	1677.0	1660.7	1681.9	1688.4	1686.8	1703.1	1716.2	1729.2	1735.7	1725.9	1727.6
10°	1672.1	1659.0	1681.9	1691.6	1693.3	1711.2	1730.8	1748.8	1756.9	1750.4	1755.3
12.5°	1665.6	1657.4	1683.5	1698.2	1704.7	1722.7	1747.1	1768.3	1781.4	1778.1	1787.9
15°	1659.0	1652.5	1683.5	1704.7	1712.8	1729.2	1756.9	1787.9	1802.6	1801.0	1814.0
17.5°	1642.7	1641.1	1673.7	1696.5	1708.0	1727.6	1753.6	1791.1	1805.9	1809.1	1825.4
20°	1616.6	1616.6	1652.5	1677.0	1690.0	1708.0	1740.6	1776.5	1794.5	1797.7	1815.7
22.5°	1580.7	1584.0	1618.2	1642.7	1662.3	1675.3	1709.6	1747.1	1763.4	1768.3	1787.9
25°	1533.4	1536.7	1569.3	1593.8	1615.0	1629.6	1662.3	1696.5	1716.2	1721.0	1735.7
27.5°	1471.5	1478.0	1509.0	1533.4	1551.3	1561.2	1595.4	1631.3	1646.0	1650.9	1665.6
30°	1399.7	1401.3	1432.3	1453.5	1471.5	1479.6	1509.0	1546.5	1557.9	1562.8	1584.0
32.5°	1311.5	1310.0	1339.3	1358.9	1373.5	1383.3	1414.3	1438.8	1450.2	1458.4	1469.8
35°	1205.5	1203.9	1225.1	1248.0	1259.4	1262.6	1293.6	1319.7	1326.3	1332.8	1347.5
37.5°	1086.5	1086.5	1104.4	1115.8	1128.8	1133.7	1148.5	1177.8	1189.2	1187.6	1199.0
40°	960.8	954.3	967.3	978.8	982.1	983.6	998.4	1021.2	1029.3	1029.3	1037.5
42.5°	828.7	818.9	820.6	827.1	830.3	818.9	828.7	843.4	838.5	845.0	846.7
45°	688.4	673.7	667.2	652.5	655.8	644.3	637.8	641.1	639.5	623.2	626.4
47.5°	574.2	548.1	536.7	515.5	510.6	497.6	489.4	474.7	461.7	461.7	453.5
50°	478.0	451.9	429.0	404.5	396.4	385.0	367.0	347.5	337.7	327.9	319.7
52.5°	401.3	373.6	345.8	319.7	308.3	293.6	269.2	249.6	231.6	221.8	212.1
55°	339.3	308.3	279.0	251.2	236.5	221.8	197.4	174.6	153.3	140.3	132.1
57.5°	292.0	262.7	231.6	202.3	189.2	172.9	146.8	122.3	102.8	88.1	80.0
60°	257.8	228.4	200.7	169.7	156.6	140.3	112.6	89.7	70.1	57.1	47.3
62.5°	228.4	202.3	172.9	145.2	132.1	115.8	89.7	66.9	48.9	35.9	27.7
65°	207.2	181.1	156.6	128.9	117.5	101.2	76.6	55.5	39.2	27.7	19.6
67.5°	182.7	159.8	135.4	112.6	101.2	88.1	65.2	47.3	32.6	22.8	16.3
70°	153.3	135.4	114.2	93.0	84.9	73.4	53.8	39.2	26.1	18.0	13.1
72.5°	122.3	107.7	91.4	75.0	68.5	57.1	44.0	31.0	19.6	13.1	9.8
75°	93.0	81.5	68.5	57.1	50.6	44.0	32.6	22.8	14.7	9.8	6.5
77.5°	63.6	58.7	48.9	39.2	35.9	31.0	21.2	14.7	9.8	6.5	3.2
80°	44.0	39.2	32.6	26.1	22.8	19.6	13.1	9.8	4.9	3.2	1.7
82.5°	27.7	22.8	19.6	16.3	14.7	11.4	8.2	4.9	3.2	1.7	1.7
85°	14.7	13.1	11.4	8.2	8.2	6.5	4.9	3.2	1.7	0.0	0.0
87.5°	8.2	6.5	4.9	3.2	3.2	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°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1716.2	1716.2	1714.5	1734.1	1711.2	1734.1	1722.7	1734.1	1717.7	1716.2	1717.7
5°	1729.2	1734.1	1735.7	1753.6	1732.5	1760.2	1750.4	1760.2	1748.8	1752.0	1756.9
7.5°	1755.3	1763.4	1761.8	1784.6	1763.4	1794.5	1787.9	1802.6	1791.1	1794.5	1801.0
10°	1784.6	1794.5	1796.0	1818.9	1799.3	1836.8	1828.7	1845.0	1835.2	1840.1	1848.3
12.5°	1818.9	1830.3	1832.0	1858.0	1836.8	1876.0	1871.1	1887.4	1879.2	1884.2	1894.0
15°	1845.0	1861.3	1864.6	1890.7	1867.8	1908.6	1905.4	1926.6	1913.5	1921.7	1929.8
17.5°	1858.0	1872.7	1879.2	1903.7	1884.2	1924.9	1921.7	1939.6	1929.8	1938.0	1947.8
20°	1849.9	1867.8	1872.7	1897.2	1877.7	1918.4	1913.5	1931.5	1921.7	1928.2	1938.0
22.5°	1820.5	1838.5	1845.0	1867.8	1849.9	1887.4	1885.8	1902.1	1889.1	1897.2	1905.4
25°	1768.3	1787.9	1791.1	1812.4	1792.8	1832.0	1828.7	1846.6	1836.8	1841.7	1853.1
27.5°	1693.3	1716.2	1721.0	1739.0	1724.3	1756.9	1756.9	1771.6	1760.2	1760.2	1771.6
30°	1603.6	1626.4	1629.6	1644.4	1631.3	1660.7	1662.3	1677.0	1659.0	1668.8	1670.5
32.5°	1494.3	1509.0	1518.7	1531.8	1512.2	1549.8	1544.8	1556.2	1546.5	1546.5	1554.7
35°	1362.1	1380.1	1385.0	1401.3	1385.0	1414.3	1414.3	1420.9	1411.1	1411.1	1424.1
37.5°	1218.6	1231.7	1233.3	1249.6	1236.5	1261.0	1259.4	1264.3	1254.5	1261.0	1261.0
40°	1050.5	1060.3	1063.6	1071.8	1070.2	1088.1	1086.5	1089.7	1084.8	1086.5	1089.7
42.5°	854.8	867.8	874.4	880.9	871.1	895.6	890.7	895.6	893.9	895.6	900.5
45°	629.7	639.5	644.3	646.0	642.7	657.4	668.8	659.1	660.6	657.4	664.0
47.5°	455.1	456.8	453.5	463.3	455.1	461.7	464.9	466.5	456.8	455.1	461.7
50°	311.6	319.7	308.3	313.2	311.6	318.1	314.8	316.5	306.7	311.6	308.3
52.5°	207.2	205.5	202.3	203.9	200.7	200.7	200.7	203.9	197.4	194.1	190.9
55°	125.6	122.3	115.8	114.2	114.2	115.8	112.6	109.3	109.3	107.7	107.7
57.5°	73.4	68.5	65.2	63.6	60.3	58.7	57.1	57.1	53.8	53.8	53.8
60°	40.8	35.9	32.6	29.4	29.4	27.7	26.1	24.5	24.5	24.5	22.8
62.5°	21.2	18.0	14.7	13.1	13.1	11.4	9.8	9.8	9.8	9.8	8.2
65°	14.7	11.4	9.8	8.2	8.2	6.5	6.5	6.5	6.5	6.5	6.5
67.5°	11.4	9.8	8.2	6.5	6.5	6.5	4.9	4.9	4.9	4.9	4.9
70°	9.8	6.5	6.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	6.5	6.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75°	4.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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: P684955

CATALOG NUMBER: LX6C30D010 EX6309040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3	1706.3
2.5°	1732.5	1730.8	1732.5	1735.7	1729.2	1748.8	1739.0	1748.8
5°	1770.0	1771.6	1773.2	1778.1	1770.0	1794.5	1781.4	1796.0
7.5°	1818.9	1820.5	1822.2	1827.1	1822.2	1846.6	1832.0	1845.0
10°	1869.5	1872.7	1872.7	1880.9	1876.0	1898.8	1889.1	1905.4
12.5°	1916.8	1920.0	1923.3	1928.2	1924.9	1949.4	1941.2	1954.3
15°	1954.3	1960.8	1962.4	1968.9	1965.7	1991.8	1982.0	1995.1
17.5°	1972.3	1978.8	1978.8	1986.9	1983.7	2011.4	1998.3	2013.0
20°	1962.4	1967.4	1968.9	1977.2	1973.9	2001.6	1988.6	2006.5
22.5°	1931.5	1933.1	1934.7	1942.9	1941.2	1965.7	1954.3	1965.7
25°	1874.3	1879.2	1877.7	1884.2	1884.2	1903.7	1890.7	1900.5
27.5°	1792.8	1797.7	1797.7	1805.9	1799.3	1818.9	1805.9	1820.5
30°	1693.3	1698.2	1694.9	1701.4	1694.9	1714.5	1704.7	1709.6
32.5°	1574.2	1574.2	1575.8	1577.5	1574.2	1592.1	1582.4	1592.1
35°	1432.3	1435.5	1437.2	1438.8	1435.5	1448.6	1437.2	1443.7
37.5°	1272.4	1280.6	1278.9	1280.6	1275.7	1292.0	1282.2	1285.5
40°	1101.1	1101.1	1099.5	1102.8	1097.9	1110.9	1104.4	1107.6
42.5°	902.1	907.0	900.5	908.7	895.6	913.5	907.0	902.1
45°	677.0	670.5	668.8	670.5	665.6	667.2	672.1	668.8
47.5°	461.7	461.7	458.4	453.5	460.0	461.7	455.1	455.1
50°	309.9	309.9	306.7	305.0	308.3	306.7	303.4	308.3
52.5°	197.4	190.9	190.9	194.1	190.9	187.6	192.5	189.2
55°	107.7	104.4	104.4	107.7	104.4	104.4	102.8	106.0
57.5°	52.2	53.8	52.2	52.2	52.2	52.2	50.6	52.2
60°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8
62.5°	9.8	9.8	8.2	8.2	8.2	8.2	8.2	8.2
65°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
67.5°	4.9	4.9	4.9	4.9	4.9	6.5	4.9	4.9
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	4.9	4.9	6.5	6.5	6.5	6.5	6.5	6.5
75°	3.2	3.2	3.2	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)