

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: P684940

Luminaire Tested: **LX6C30D010 EX6309027 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684940
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 EX6309027 6LCSWLI
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

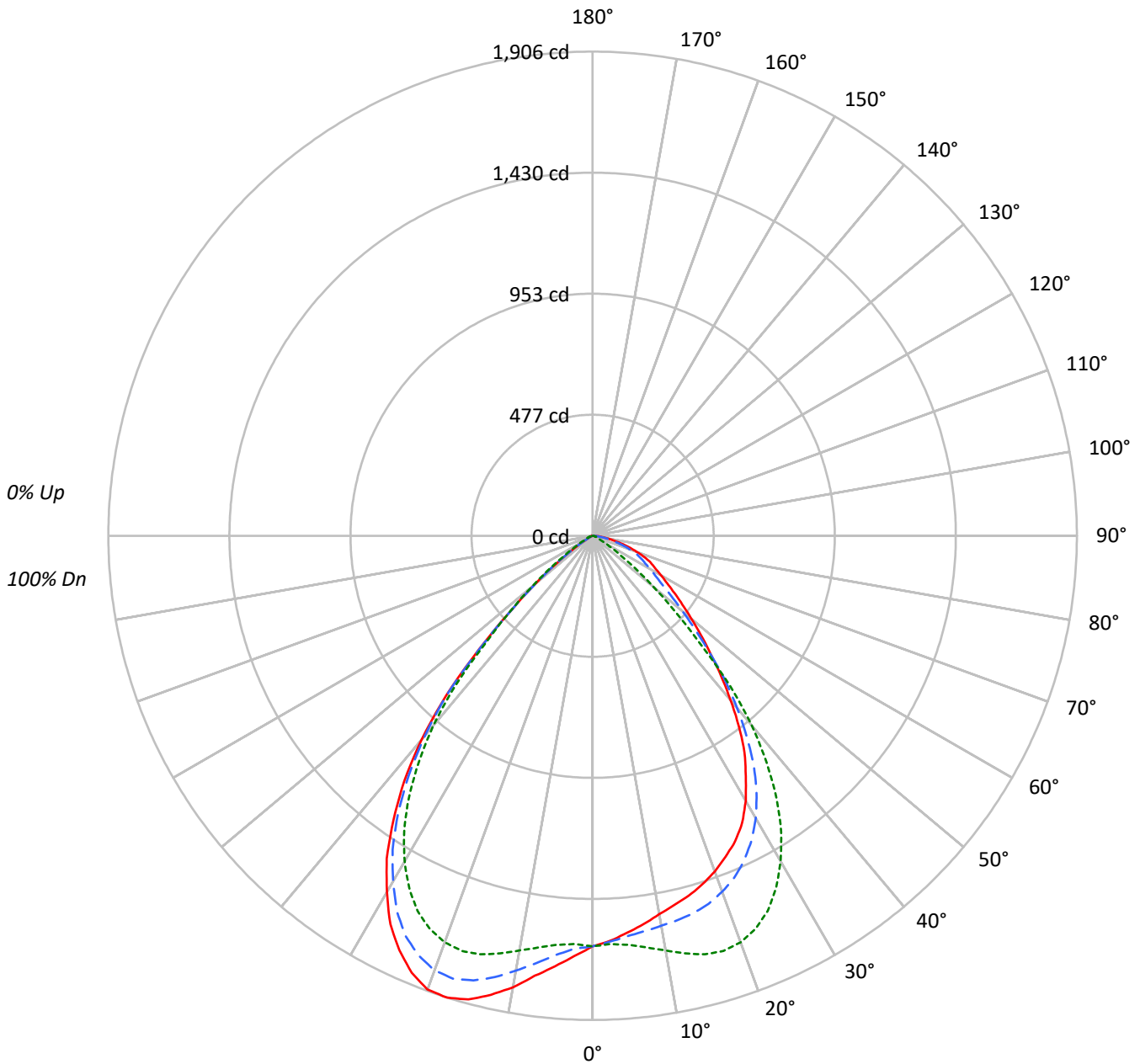
Lumens per Lamp: N/A
Luminaire Lumens: 2954.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	88595	88595	88595
5°	86297	88933	93605
10°	84195	92283	100455
15°	83213	96805	107237
20°	82018	99327	110860
25°	80279	98594	108871
30°	76284	93692	102497
35°	69794	84477	91504
40°	60370	69766	75069
45°	50912	45757	49106
50°	43222	26490	24903
55°	37504	12702	9596
60°	33879	5932	2368
65°	32870	3399	804
70°	29460	2725	737
75°	24210	1970	339
80°	18026	979	0
85°	15536	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	5.3
10°-20°	475.7	16.1
20°-30°	726.9	24.6
30°-40°	760.2	25.7
40°-50°	493.2	16.7
50°-60°	195.8	6.6
60°-70°	92.9	3.1
70°-80°	44.2	1.5
80°-90°	9.0	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°	1358.7	46.0
0°-40°	2118.9	71.7
0°-60°	2807.9	95.1
0°-90°	2954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2954.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1616	1616	1616	1616	1616	
5°	1568	1582	1616	1656	1701	148
15°	1466	1537	1706	1812	1890	413
25°	1327	1411	1630	1740	1800	608
35°	1043	1106	1262	1336	1367	645
45°	657	650	590	626	633	511
55°	392	334	133	104	100	356
65°	253	210	26	6	6	247
75°	114	93	9	3	2	123
85°	25	15	0	0	0	29
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°	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1
2.5°	1596.0	1599.1	1582.1	1577.5	1589.8	1594.4	1596.0	1591.3	1592.9	1599.1	1599.1
5°	1568.2	1571.2	1555.8	1551.2	1563.5	1566.7	1571.2	1569.7	1574.4	1583.6	1582.1
7.5°	1541.9	1546.6	1529.6	1523.4	1538.8	1546.6	1549.6	1549.6	1555.8	1568.2	1569.7
10°	1512.5	1518.8	1503.3	1500.2	1517.2	1524.9	1526.5	1529.6	1538.8	1555.8	1558.9
12.5°	1487.9	1494.0	1483.2	1478.6	1497.1	1504.8	1507.9	1514.1	1524.9	1546.6	1549.6
15°	1466.2	1470.8	1458.5	1455.4	1473.9	1483.2	1484.7	1494.0	1507.9	1532.6	1537.3
17.5°	1438.4	1441.5	1432.2	1429.1	1447.7	1456.9	1458.5	1469.3	1486.3	1511.0	1518.8
20°	1405.9	1409.1	1399.8	1396.7	1415.2	1426.0	1427.6	1436.9	1456.9	1483.2	1490.9
22.5°	1367.3	1373.5	1362.7	1359.6	1378.2	1387.4	1392.0	1399.8	1419.9	1446.1	1456.9
25°	1327.2	1327.2	1319.5	1317.9	1334.9	1345.7	1344.1	1354.9	1375.0	1401.3	1410.6
27.5°	1274.6	1273.1	1265.3	1263.8	1282.4	1291.6	1288.5	1299.4	1317.9	1344.1	1353.4
30°	1205.1	1208.2	1197.4	1194.3	1209.8	1225.2	1223.6	1234.4	1253.0	1277.7	1283.9
32.5°	1121.7	1124.7	1123.2	1118.6	1132.5	1140.2	1144.8	1152.6	1168.0	1194.3	1200.5
35°	1042.9	1038.2	1032.1	1032.1	1045.9	1058.3	1053.7	1063.0	1078.4	1104.7	1106.2
37.5°	945.5	944.0	940.9	937.8	953.3	956.3	957.9	964.1	978.0	999.6	996.5
40°	843.6	845.1	843.6	837.4	846.7	859.0	857.5	860.6	872.9	888.3	883.8
42.5°	747.8	747.8	747.8	741.6	752.4	758.6	761.7	760.1	763.2	777.1	770.9
45°	656.7	658.2	656.7	655.1	656.7	659.7	656.7	655.1	655.1	659.7	650.4
47.5°	577.9	577.9	573.2	568.6	573.2	574.7	570.1	565.5	563.9	562.4	547.0
50°	506.8	505.2	503.7	496.0	500.6	502.1	496.0	492.8	486.7	479.0	460.4
52.5°	445.0	443.4	441.9	434.1	437.3	438.8	432.6	426.4	418.7	412.5	389.4
55°	392.4	390.9	390.9	386.3	383.1	386.3	380.1	375.4	364.6	356.9	333.7
57.5°	347.6	347.6	344.5	339.9	341.4	341.4	335.3	329.1	319.8	310.6	292.0
60°	309.0	309.0	309.0	304.3	304.3	304.3	301.3	295.1	287.4	278.1	259.6
62.5°	278.1	278.1	276.5	271.9	273.4	273.4	270.4	264.2	256.5	250.3	231.8
65°	253.4	253.4	253.4	248.8	248.8	250.3	247.2	241.0	234.8	227.1	210.1
67.5°	222.5	221.0	221.0	217.8	219.4	221.0	217.8	213.2	205.5	200.9	185.4
70°	183.8	185.4	186.9	182.3	183.8	183.8	182.3	177.7	173.0	168.4	154.5
72.5°	149.9	149.9	148.3	146.8	146.8	148.3	145.2	140.6	137.5	134.4	123.6
75°	114.3	112.8	114.3	111.3	111.3	111.3	108.1	106.6	105.0	100.4	92.7
77.5°	83.4	81.9	81.9	78.8	80.4	80.4	78.8	75.7	72.6	71.1	64.9
80°	57.1	57.1	57.1	55.6	55.6	54.1	54.1	52.6	49.4	47.9	44.8
82.5°	38.6	38.6	38.6	37.1	37.1	37.1	35.5	34.0	32.5	30.9	27.8
85°	24.7	24.7	24.7	23.2	23.2	23.2	21.6	21.6	20.1	18.5	15.4
87.5°	13.9	13.9	13.9	12.4	12.4	12.4	12.4	12.4	10.8	9.3	7.7
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°	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1
2.5°	1609.9	1588.3	1602.1	1602.1	1597.6	1609.9	1617.6	1623.8	1622.2	1608.4	1606.8
5°	1597.6	1579.0	1594.4	1596.0	1591.3	1608.4	1619.2	1626.9	1628.4	1616.1	1617.6
7.5°	1588.3	1572.8	1592.9	1599.1	1597.6	1613.0	1625.4	1637.7	1643.9	1634.6	1636.2
10°	1583.6	1571.2	1592.9	1602.1	1603.7	1620.7	1639.2	1656.3	1664.0	1657.8	1662.4
12.5°	1577.5	1569.7	1594.4	1608.4	1614.5	1631.5	1654.7	1674.8	1687.2	1684.1	1693.3
15°	1571.2	1565.1	1594.4	1614.5	1622.2	1637.7	1664.0	1693.3	1707.2	1705.7	1718.0
17.5°	1555.8	1554.3	1585.2	1606.8	1617.6	1636.2	1660.8	1696.4	1710.3	1713.4	1728.8
20°	1531.1	1531.1	1565.1	1588.3	1600.6	1617.6	1648.5	1682.5	1699.5	1702.6	1719.6
22.5°	1497.1	1500.2	1532.6	1555.8	1574.4	1586.7	1619.2	1654.7	1670.1	1674.8	1693.3
25°	1452.3	1455.4	1486.3	1509.5	1529.6	1543.4	1574.4	1606.8	1625.4	1630.0	1643.9
27.5°	1393.6	1399.8	1429.1	1452.3	1469.3	1478.6	1511.0	1545.0	1558.9	1563.5	1577.5
30°	1325.6	1327.2	1356.5	1376.6	1393.6	1401.3	1429.1	1464.7	1475.5	1480.1	1500.2
32.5°	1242.2	1240.7	1268.5	1287.0	1300.9	1310.2	1339.5	1362.7	1373.5	1381.2	1392.0
35°	1141.8	1140.2	1160.3	1181.9	1192.7	1195.8	1225.2	1249.9	1256.1	1262.3	1276.2
37.5°	1029.0	1029.0	1045.9	1056.8	1069.1	1073.8	1087.7	1115.5	1126.3	1124.7	1135.6
40°	910.0	903.9	916.2	927.0	930.1	931.6	945.5	967.1	974.9	974.9	982.6
42.5°	784.9	775.6	777.1	783.3	786.4	775.6	784.9	798.7	794.1	800.3	801.9
45°	652.0	638.1	631.9	618.0	621.1	610.3	604.1	607.2	605.7	590.2	593.3
47.5°	543.8	519.1	508.3	488.2	483.6	471.2	463.5	449.6	437.3	437.3	429.5
50°	452.7	428.0	406.3	383.1	375.4	364.6	347.6	329.1	319.8	310.6	302.8
52.5°	380.1	353.8	327.5	302.8	292.0	278.1	254.9	236.4	219.4	210.1	200.9
55°	321.4	292.0	264.2	237.9	224.0	210.1	186.9	165.3	145.2	132.9	125.1
57.5°	276.5	248.8	219.4	191.6	179.2	163.8	139.1	115.8	97.3	83.4	75.7
60°	244.1	216.3	190.1	160.7	148.3	132.9	106.6	85.0	66.4	54.1	44.8
62.5°	216.3	191.6	163.8	137.5	125.1	109.7	85.0	63.4	46.3	34.0	26.2
65°	196.2	171.5	148.3	122.1	111.3	95.8	72.6	52.6	37.1	26.2	18.5
67.5°	173.0	151.4	128.2	106.6	95.8	83.4	61.8	44.8	30.9	21.6	15.4
70°	145.2	128.2	108.1	88.1	80.4	69.5	51.0	37.1	24.7	17.0	12.4
72.5°	115.8	102.0	86.5	71.1	64.9	54.1	41.7	29.4	18.5	12.4	9.3
75°	88.1	77.2	64.9	54.1	47.9	41.7	30.9	21.6	13.9	9.3	6.2
77.5°	60.3	55.6	46.3	37.1	34.0	29.4	20.1	13.9	9.3	6.2	3.1
80°	41.7	37.1	30.9	24.7	21.6	18.5	12.4	9.3	4.6	3.1	1.6
82.5°	26.2	21.6	18.5	15.4	13.9	10.8	7.7	4.6	3.1	1.6	1.6
85°	13.9	12.4	10.8	7.7	7.7	6.2	4.6	3.1	1.6	0.0	0.0
87.5°	7.7	6.2	4.6	3.1	3.1	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°	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1
2.5°	1625.4	1625.4	1623.8	1642.3	1620.7	1642.3	1631.5	1642.3	1626.9	1625.4	1626.9
5°	1637.7	1642.3	1643.9	1660.8	1640.8	1667.1	1657.8	1667.1	1656.3	1659.3	1664.0
7.5°	1662.4	1670.1	1668.6	1690.2	1670.1	1699.5	1693.3	1707.2	1696.4	1699.5	1705.7
10°	1690.2	1699.5	1701.0	1722.7	1704.1	1739.6	1731.9	1747.4	1738.1	1742.8	1750.5
12.5°	1722.7	1733.5	1735.1	1759.7	1739.6	1776.8	1772.1	1787.6	1779.8	1784.5	1793.8
15°	1747.4	1762.8	1766.0	1790.6	1769.0	1807.6	1804.6	1824.7	1812.3	1820.0	1827.7
17.5°	1759.7	1773.7	1779.8	1803.0	1784.5	1823.1	1820.0	1837.0	1827.7	1835.5	1844.8
20°	1752.0	1769.0	1773.7	1796.8	1778.3	1816.9	1812.3	1829.3	1820.0	1826.2	1835.5
22.5°	1724.2	1741.2	1747.4	1769.0	1752.0	1787.6	1786.0	1801.5	1789.1	1796.8	1804.6
25°	1674.8	1693.3	1696.4	1716.5	1698.0	1735.1	1731.9	1748.9	1739.6	1744.3	1755.1
27.5°	1603.7	1625.4	1630.0	1647.0	1633.1	1664.0	1664.0	1677.9	1667.1	1667.1	1677.9
30°	1518.8	1540.4	1543.4	1557.4	1545.0	1572.8	1574.4	1588.3	1571.2	1580.5	1582.1
32.5°	1415.2	1429.1	1438.4	1450.8	1432.2	1467.8	1463.1	1473.9	1464.7	1464.7	1472.4
35°	1290.1	1307.1	1311.7	1327.2	1311.7	1339.5	1339.5	1345.7	1336.4	1336.4	1348.8
37.5°	1154.1	1166.5	1168.0	1183.5	1171.1	1194.3	1192.7	1197.4	1188.1	1194.3	1194.3
40°	995.0	1004.3	1007.3	1015.1	1013.5	1030.5	1029.0	1032.1	1027.4	1029.0	1032.1
42.5°	809.6	821.9	828.1	834.3	825.1	848.2	843.6	848.2	846.7	848.2	852.9
45°	596.4	605.7	610.3	611.8	608.7	622.6	633.4	624.2	625.7	622.6	628.8
47.5°	431.1	432.6	429.5	438.8	431.1	437.3	440.3	441.9	432.6	431.1	437.3
50°	295.1	302.8	292.0	296.6	295.1	301.3	298.2	299.8	290.5	295.1	292.0
52.5°	196.2	194.6	191.6	193.1	190.1	190.1	190.1	193.1	186.9	183.8	180.8
55°	119.0	115.8	109.7	108.1	108.1	109.7	106.6	103.5	103.5	102.0	102.0
57.5°	69.5	64.9	61.8	60.3	57.1	55.6	54.1	54.1	51.0	51.0	51.0
60°	38.6	34.0	30.9	27.8	27.8	26.2	24.7	23.2	23.2	23.2	21.6
62.5°	20.1	17.0	13.9	12.4	12.4	10.8	9.3	9.3	9.3	9.3	7.7
65°	13.9	10.8	9.3	7.7	7.7	6.2	6.2	6.2	6.2	6.2	6.2
67.5°	10.8	9.3	7.7	6.2	6.2	6.2	4.6	4.6	4.6	4.6	4.6
70°	9.3	6.2	6.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	6.2	6.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
75°	4.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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: P684940

CATALOG NUMBER: LX6C30D010 EX6309027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1	1616.1
2.5°	1640.8	1639.2	1640.8	1643.9	1637.7	1656.3	1647.0	1656.3
5°	1676.4	1677.9	1679.4	1684.1	1676.4	1699.5	1687.2	1701.0
7.5°	1722.7	1724.2	1725.8	1730.4	1725.8	1748.9	1735.1	1747.4
10°	1770.6	1773.7	1773.7	1781.4	1776.8	1798.4	1789.1	1804.6
12.5°	1815.4	1818.4	1821.6	1826.2	1823.1	1846.3	1838.5	1850.9
15°	1850.9	1857.1	1858.6	1864.8	1861.7	1886.4	1877.2	1889.5
17.5°	1867.9	1874.1	1874.1	1881.8	1878.7	1905.0	1892.6	1906.5
20°	1858.6	1863.3	1864.8	1872.6	1869.4	1895.7	1883.4	1900.3
22.5°	1829.3	1830.8	1832.4	1840.1	1838.5	1861.7	1850.9	1861.7
25°	1775.2	1779.8	1778.3	1784.5	1784.5	1803.0	1790.6	1799.9
27.5°	1698.0	1702.6	1702.6	1710.3	1704.1	1722.7	1710.3	1724.2
30°	1603.7	1608.4	1605.3	1611.4	1605.3	1623.8	1614.5	1619.2
32.5°	1490.9	1490.9	1492.4	1494.0	1490.9	1507.9	1498.7	1507.9
35°	1356.5	1359.6	1361.2	1362.7	1359.6	1372.0	1361.2	1367.3
37.5°	1205.1	1212.8	1211.3	1212.8	1208.2	1223.6	1214.4	1217.5
40°	1042.9	1042.9	1041.3	1044.4	1039.8	1052.2	1045.9	1049.0
42.5°	854.4	859.0	852.9	860.6	848.2	865.2	859.0	854.4
45°	641.2	635.0	633.4	635.0	630.3	631.9	636.6	633.4
47.5°	437.3	437.3	434.1	429.5	435.7	437.3	431.1	431.1
50°	293.5	293.5	290.5	288.9	292.0	290.5	287.4	292.0
52.5°	186.9	180.8	180.8	183.8	180.8	177.7	182.3	179.2
55°	102.0	98.9	98.9	102.0	98.9	98.9	97.3	100.4
57.5°	49.4	51.0	49.4	49.4	49.4	49.4	47.9	49.4
60°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
62.5°	9.3	9.3	7.7	7.7	7.7	7.7	7.7	7.7
65°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
67.5°	4.6	4.6	4.6	4.6	4.6	6.2	4.6	4.6
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	4.6	4.6	6.2	6.2	6.2	6.2	6.2	6.2
75°	3.1	3.1	3.1	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)