

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: P684206

Luminaire Tested: **LX6C30D010 EX6C309727 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684206
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 EX6C309727 6LCSWH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

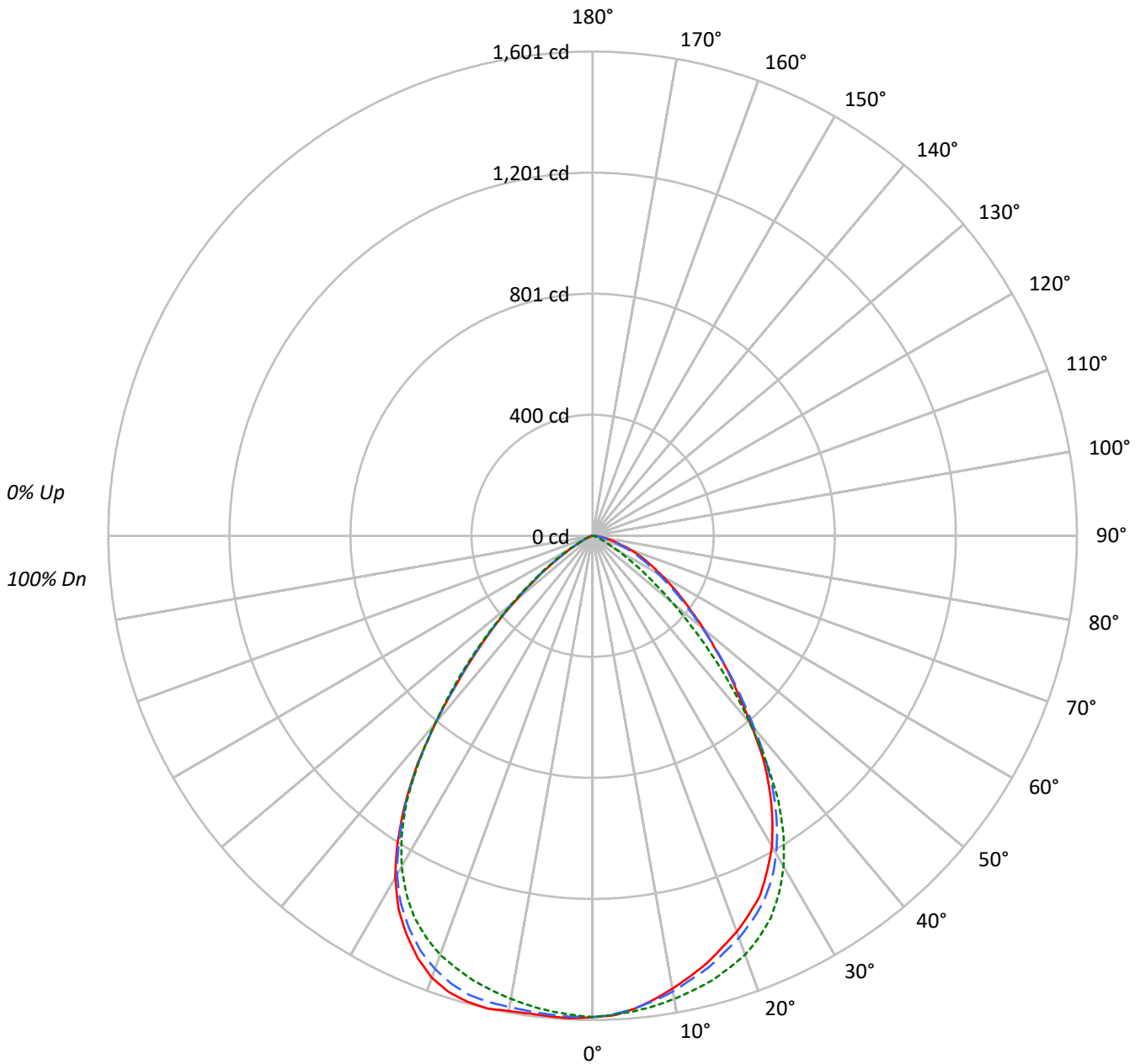
Lumens per Lamp: N/A
Luminaire Lumens: 2670.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
RC	80									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																			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	87246	87246	87246
5°	86413	86837	87789
10°	84634	86555	88804
15°	83014	86397	90540
20°	81295	86002	90710
25°	79293	84289	88009
30°	75075	79936	82614
35°	68175	71648	72290
40°	58188	57908	57629
45°	48873	43361	42020
50°	40817	29338	27871
55°	34350	18007	16353
60°	29088	9484	8223
65°	25178	4994	3982
70°	20949	3077	2148
75°	15483	2033	1228
80°	12154	1200	631
85°	9686	1258	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	5.6
10°-20°	429.5	16.1
20°-30°	634.2	23.8
30°-40°	653.6	24.5
40°-50°	451.4	16.9
50°-60°	222.5	8.3
60°-70°	90.2	3.4
70°-80°	32.1	1.2
80°-90°	6.7	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°	1213.6	45.5
0°-40°	1867.2	69.9
0°-60°	2541.1	95.2
0°-90°	2670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1592	1592	1592	1592	1592	
5°	1570	1570	1578	1590	1595	148
15°	1463	1478	1522	1572	1595	412
25°	1311	1336	1394	1434	1455	599
35°	1019	1044	1071	1076	1080	631
45°	630	634	559	552	542	487
55°	359	346	188	177	171	325
65°	194	175	38	31	31	193
75°	73	62	10	6	6	82
85°	15	12	2	0	0	19
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°	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5
2.5°	1587.6	1581.9	1585.7	1578.0	1587.6	1578.0	1579.9	1581.9	1579.9	1581.9	1583.8
5°	1570.3	1564.6	1570.3	1560.7	1570.3	1564.6	1564.6	1566.5	1566.5	1568.4	1570.3
7.5°	1547.3	1541.5	1547.3	1537.7	1549.2	1543.4	1543.4	1547.3	1545.3	1547.3	1551.1
10°	1520.4	1512.7	1518.4	1512.7	1524.2	1516.5	1520.4	1520.4	1520.4	1526.1	1530.0
12.5°	1491.6	1483.8	1491.6	1481.9	1493.4	1487.7	1489.6	1495.4	1497.3	1501.2	1503.0
15°	1462.7	1453.1	1456.9	1451.1	1462.7	1456.9	1458.9	1466.5	1466.5	1472.3	1478.1
17.5°	1426.2	1418.5	1426.2	1418.5	1428.1	1424.3	1428.1	1433.9	1433.9	1439.7	1445.4
20°	1393.5	1385.8	1391.6	1385.8	1397.4	1391.6	1393.5	1401.2	1403.1	1408.9	1414.6
22.5°	1353.1	1347.4	1351.2	1345.5	1357.0	1353.1	1355.1	1362.8	1364.7	1368.5	1378.1
25°	1310.9	1299.3	1305.1	1301.2	1312.8	1307.0	1310.9	1318.5	1322.4	1328.1	1335.9
27.5°	1249.3	1243.6	1247.4	1247.4	1257.0	1251.3	1253.2	1260.9	1266.6	1272.4	1282.0
30°	1186.0	1176.3	1180.2	1182.1	1189.8	1186.0	1189.8	1197.4	1199.4	1207.1	1214.7
32.5°	1105.2	1101.3	1109.1	1105.2	1109.1	1109.1	1110.9	1116.7	1120.5	1124.4	1134.1
35°	1018.7	1011.0	1018.7	1014.9	1024.5	1018.7	1024.5	1030.3	1030.3	1037.9	1043.7
37.5°	924.5	914.9	918.7	918.7	922.6	920.7	920.7	930.3	932.2	938.0	943.7
40°	813.1	809.2	816.9	814.9	816.9	816.9	818.8	824.6	828.4	830.3	832.3
42.5°	713.1	715.0	716.9	716.9	716.9	716.9	716.9	724.6	722.7	728.5	730.4
45°	630.4	622.8	626.6	624.7	630.4	624.7	630.4	636.2	632.4	638.2	634.2
47.5°	545.9	545.9	545.9	544.0	547.8	545.9	549.7	551.6	551.6	551.6	549.7
50°	478.6	472.8	474.7	474.7	476.7	474.7	478.6	480.5	480.5	476.7	469.0
52.5°	413.2	411.3	411.3	415.2	415.2	413.2	413.2	413.2	413.2	407.5	403.6
55°	359.4	355.6	357.5	357.5	357.5	357.5	359.4	357.5	357.5	351.7	346.0
57.5°	311.4	307.5	307.5	307.5	309.4	307.5	307.5	307.5	305.6	299.8	292.2
60°	265.3	263.3	265.3	265.3	267.1	265.3	265.3	265.3	261.4	255.7	247.9
62.5°	226.8	226.8	226.8	228.7	228.7	226.8	226.8	224.9	223.0	215.2	207.6
65°	194.1	192.2	194.1	194.1	196.0	196.0	194.1	192.2	190.3	182.6	174.9
67.5°	161.5	159.5	161.5	161.5	163.4	161.5	161.5	161.5	155.7	151.9	144.1
70°	130.7	128.8	128.8	128.8	130.7	126.8	128.8	128.8	125.0	119.2	111.5
72.5°	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	94.2	88.4	84.6
75°	73.1	73.1	75.0	75.0	73.1	73.1	73.1	71.1	69.2	65.3	61.5
77.5°	53.8	53.8	53.8	53.8	51.9	51.9	51.9	49.9	48.1	46.1	42.3
80°	38.5	38.5	38.5	36.5	38.5	36.5	36.5	36.5	32.7	30.7	28.8
82.5°	26.9	25.0	25.0	25.0	25.0	25.0	25.0	23.1	23.1	21.2	19.2
85°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	13.4	11.6	11.6
87.5°	7.7	9.6	9.6	9.6	9.6	9.6	9.6	7.7	7.7	7.7	5.8
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°	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5
2.5°	1583.8	1583.8	1587.6	1581.9	1591.5	1585.7	1583.8	1593.4	1587.6	1585.7	1589.6
5°	1570.3	1572.3	1574.2	1570.3	1579.9	1574.2	1574.2	1583.8	1579.9	1578.0	1583.8
7.5°	1553.1	1554.9	1558.8	1556.9	1564.6	1560.7	1562.7	1572.3	1568.4	1568.4	1574.2
10°	1531.9	1535.7	1539.6	1539.6	1549.2	1545.3	1545.3	1556.9	1553.1	1554.9	1562.7
12.5°	1506.9	1512.7	1518.4	1520.4	1530.0	1524.2	1526.1	1539.6	1537.7	1539.6	1547.3
15°	1480.0	1487.7	1493.4	1493.4	1505.0	1499.2	1505.0	1518.4	1514.6	1522.3	1531.9
17.5°	1449.3	1456.9	1464.6	1466.5	1478.1	1474.2	1481.9	1495.4	1495.4	1499.2	1510.8
20°	1420.4	1430.0	1433.9	1439.7	1451.1	1449.3	1453.1	1468.5	1468.5	1474.2	1485.8
22.5°	1382.0	1391.6	1399.3	1405.0	1414.6	1414.6	1420.4	1433.9	1433.9	1437.7	1449.3
25°	1339.7	1351.2	1357.0	1362.8	1372.4	1370.4	1376.2	1387.8	1389.6	1393.5	1405.0
27.5°	1285.8	1295.5	1303.2	1307.0	1320.5	1312.8	1318.5	1332.0	1330.1	1333.9	1343.5
30°	1218.6	1228.2	1235.9	1235.9	1247.4	1247.4	1253.2	1259.0	1259.0	1262.8	1270.5
32.5°	1139.8	1151.3	1151.3	1157.1	1164.8	1157.1	1164.8	1172.4	1168.6	1174.4	1180.2
35°	1049.4	1055.2	1057.2	1057.2	1062.9	1061.0	1059.0	1064.8	1061.0	1070.6	1076.4
37.5°	939.9	947.6	943.7	947.6	945.6	939.9	939.9	949.5	941.8	943.7	949.5
40°	834.2	834.2	832.3	822.7	824.6	818.8	816.9	818.8	811.1	809.2	816.9
42.5°	724.6	722.7	716.9	703.5	705.4	695.8	688.1	688.1	684.3	682.3	684.3
45°	626.6	620.8	611.2	595.9	592.0	584.3	568.9	565.1	559.3	559.3	561.2
47.5°	536.2	528.6	513.2	495.9	486.3	476.7	461.3	455.5	445.9	442.1	445.9
50°	461.3	447.8	428.6	403.6	394.0	382.5	367.1	357.5	347.9	344.0	342.1
52.5°	392.1	372.9	353.7	322.9	315.2	303.7	282.5	272.9	263.3	255.7	255.7
55°	332.5	315.2	288.3	259.5	247.9	236.4	215.2	201.8	192.2	188.4	184.5
57.5°	278.7	259.5	234.5	203.8	192.2	180.7	159.5	146.1	136.5	130.7	126.8
60°	234.5	213.4	188.4	161.5	148.0	136.5	115.4	101.8	92.2	86.5	82.6
62.5°	192.2	174.9	149.9	125.0	113.4	101.8	84.6	71.1	61.5	57.7	51.9
65°	161.5	144.1	121.1	100.0	90.3	78.8	63.5	51.9	44.2	38.5	34.6
67.5°	130.7	117.2	98.0	78.8	69.2	61.5	48.1	38.5	30.7	26.9	25.0
70°	103.8	90.3	75.0	59.6	53.8	46.1	36.5	26.9	23.1	19.2	17.3
72.5°	76.9	67.3	55.7	44.2	38.5	34.6	25.0	21.2	15.4	13.4	11.6
75°	55.7	48.1	40.3	30.7	26.9	25.0	19.2	13.4	11.6	9.6	7.7
77.5°	38.5	34.6	26.9	21.2	19.2	17.3	13.4	9.6	7.7	5.8	5.8
80°	25.0	21.2	17.3	13.4	13.4	11.6	7.7	5.8	5.8	3.8	3.8
82.5°	15.4	13.4	11.6	9.6	7.7	7.7	5.8	3.8	3.8	2.0	2.0
85°	9.6	7.7	5.8	5.8	3.8	3.8	3.8	2.0	2.0	2.0	2.0
87.5°	3.8	3.8	3.8	2.0	2.0	2.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5
2.5°	1589.6	1589.6	1593.4	1587.6	1591.5	1591.5	1595.3	1587.6	1591.5	1593.4	1597.2
5°	1581.9	1583.8	1587.6	1585.7	1587.6	1587.6	1591.5	1581.9	1589.6	1589.6	1595.3
7.5°	1574.2	1574.2	1578.0	1576.1	1579.9	1581.9	1585.7	1578.0	1585.7	1585.7	1591.5
10°	1564.6	1564.6	1570.3	1568.4	1574.2	1576.1	1581.9	1574.2	1581.9	1583.8	1589.6
12.5°	1551.1	1553.1	1558.8	1558.8	1564.6	1568.4	1574.2	1570.3	1579.9	1581.9	1589.6
15°	1535.7	1539.6	1547.3	1545.3	1551.1	1556.9	1564.6	1558.8	1572.3	1576.1	1583.8
17.5°	1516.5	1520.4	1526.1	1526.1	1531.9	1535.7	1545.3	1541.5	1553.1	1554.9	1564.6
20°	1487.7	1493.4	1501.2	1499.2	1505.0	1508.8	1516.5	1512.7	1524.2	1528.1	1537.7
22.5°	1453.1	1456.9	1462.7	1462.7	1468.5	1472.3	1480.0	1474.2	1485.8	1487.7	1495.4
25°	1407.0	1410.8	1414.6	1416.6	1422.3	1424.3	1428.1	1424.3	1433.9	1435.8	1445.4
27.5°	1347.4	1349.3	1355.1	1355.1	1358.9	1360.8	1366.6	1358.9	1372.4	1372.4	1378.1
30°	1276.2	1274.4	1282.0	1278.2	1282.0	1282.0	1287.8	1284.0	1293.6	1289.7	1295.5
32.5°	1182.1	1186.0	1186.0	1182.1	1189.8	1187.8	1187.8	1184.0	1189.8	1191.7	1195.5
35°	1072.5	1078.3	1078.3	1080.2	1082.2	1076.4	1078.3	1066.8	1076.4	1078.3	1080.2
37.5°	953.4	947.6	951.4	945.6	955.2	943.7	943.7	936.1	943.7	943.7	945.6
40°	816.9	814.9	818.8	814.9	813.1	811.1	807.3	801.5	809.2	805.3	811.1
42.5°	688.1	686.1	686.1	682.3	680.4	680.4	676.6	672.7	670.8	670.8	680.4
45°	555.5	559.3	555.5	553.6	557.4	553.6	555.5	547.8	551.6	547.8	551.6
47.5°	444.0	445.9	442.1	438.2	444.0	438.2	438.2	432.4	440.2	440.2	436.3
50°	344.0	342.1	338.3	342.1	340.2	340.2	340.2	334.4	338.3	332.5	336.4
52.5°	253.7	251.8	251.8	249.9	251.8	249.9	249.9	247.9	247.9	246.0	247.9
55°	184.5	182.6	178.7	178.7	178.7	180.7	178.7	176.9	176.9	174.9	176.9
57.5°	125.0	121.1	121.1	121.1	121.1	119.2	119.2	117.2	119.2	117.2	119.2
60°	80.7	80.7	76.9	76.9	76.9	76.9	76.9	75.0	76.9	76.9	76.9
62.5°	49.9	49.9	48.1	46.1	48.1	46.1	46.1	46.1	48.1	46.1	48.1
65°	32.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
67.5°	23.1	21.2	21.2	21.2	21.2	21.2	21.2	19.2	21.2	21.2	21.2
70°	15.4	15.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
72.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
75°	7.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
77.5°	5.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	3.8	3.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	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	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P684206

CATALOG NUMBER: LX6C30D010 EX6C309727 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5	1591.5
2.5°	1591.5	1593.4	1589.6	1591.5	1587.6	1591.5	1593.4	1597.2
5°	1587.6	1589.6	1585.7	1589.6	1585.7	1589.6	1591.5	1595.3
7.5°	1583.8	1587.6	1583.8	1587.6	1583.8	1587.6	1589.6	1593.4
10°	1583.8	1589.6	1585.7	1591.5	1585.7	1589.6	1593.4	1595.3
12.5°	1583.8	1589.6	1587.6	1591.5	1589.6	1593.4	1597.2	1601.1
15°	1579.9	1585.7	1581.9	1587.6	1585.7	1587.6	1595.3	1595.3
17.5°	1558.8	1564.6	1564.6	1568.4	1568.4	1574.2	1578.0	1581.9
20°	1531.9	1537.7	1535.7	1541.5	1541.5	1547.3	1551.1	1554.9
22.5°	1491.6	1499.2	1497.3	1503.0	1501.2	1505.0	1512.7	1510.8
25°	1439.7	1449.3	1447.3	1451.1	1449.3	1449.3	1453.1	1455.0
27.5°	1376.2	1382.0	1380.0	1383.9	1380.0	1383.9	1387.8	1389.6
30°	1293.6	1297.4	1295.5	1297.4	1295.5	1299.3	1301.2	1305.1
32.5°	1193.6	1199.4	1193.6	1197.4	1195.5	1195.5	1203.2	1199.4
35°	1074.4	1076.4	1078.3	1078.3	1074.4	1076.4	1080.2	1080.2
37.5°	941.8	951.4	939.9	945.6	943.7	943.7	943.7	949.5
40°	803.5	805.3	801.5	801.5	801.5	799.6	807.3	805.3
42.5°	672.7	674.7	672.7	667.0	668.9	668.9	674.7	667.0
45°	545.9	549.7	547.8	547.8	544.0	544.0	545.9	542.0
47.5°	432.4	436.3	430.6	432.4	428.6	432.4	430.6	434.4
50°	328.7	332.5	330.6	332.5	332.5	328.7	334.4	326.8
52.5°	246.0	247.9	246.0	244.1	242.2	242.2	246.0	244.1
55°	174.9	173.0	173.0	173.0	174.9	174.9	173.0	171.1
57.5°	117.2	117.2	115.4	115.4	117.2	113.4	115.4	113.4
60°	75.0	75.0	75.0	75.0	73.1	75.0	75.0	75.0
62.5°	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
65°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
67.5°	19.2	21.2	21.2	21.2	19.2	19.2	19.2	19.2
70°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
72.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	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)