

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: P563932

Luminaire Tested: **LX6C30D010 EX6C309030 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P563932
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 EX6C309030 6LCSWH
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

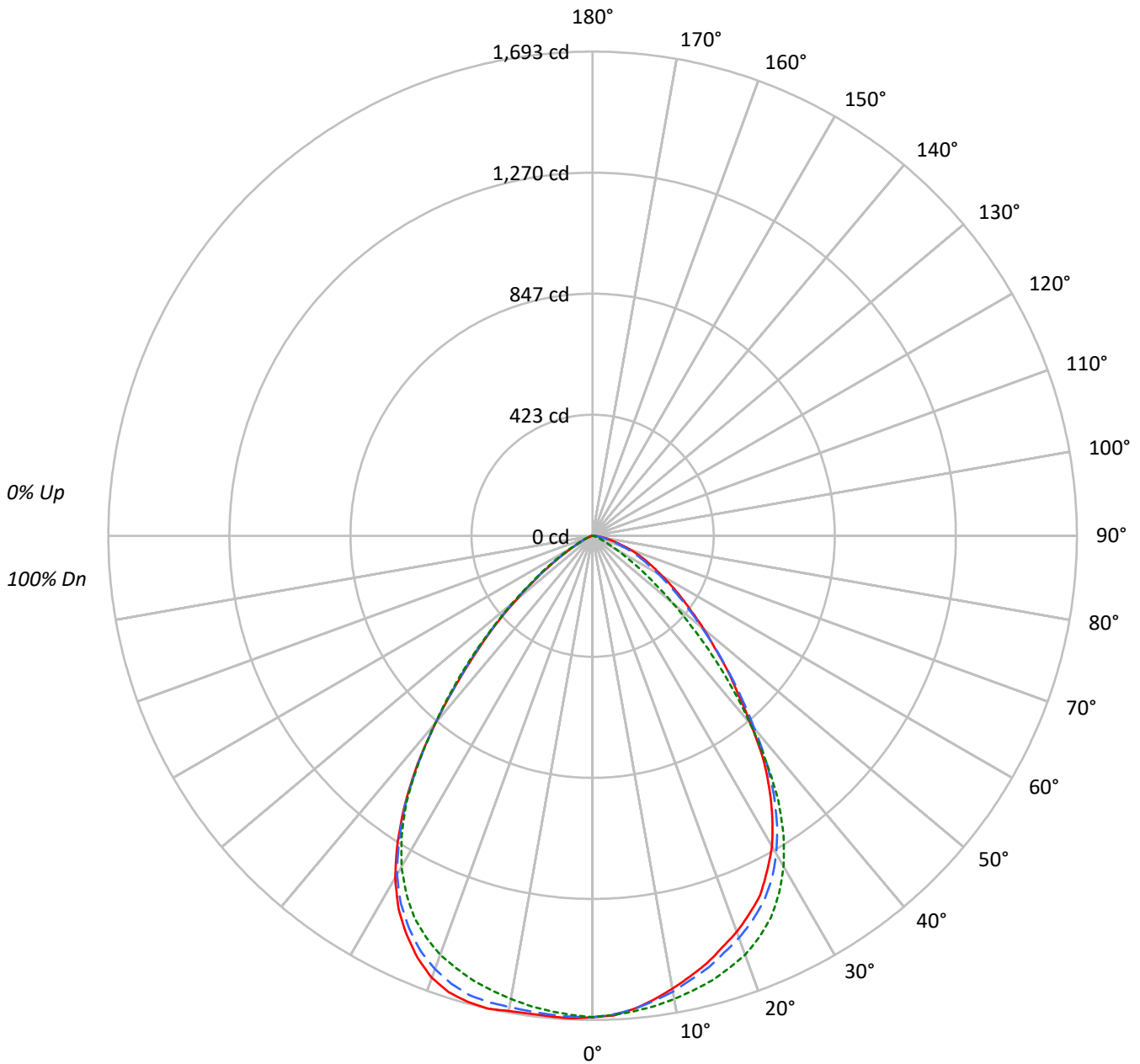
Lumens per Lamp: N/A
Luminaire Lumens: 2823.7 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	92273	92273	92273
5°	91393	91833	92846
10°	89511	91543	93919
15°	87798	91368	95755
20°	85973	90955	95938
25°	83854	89140	93072
30°	79392	84538	87368
35°	72096	75770	76453
40°	61530	61243	60950
45°	51688	45857	44439
50°	43171	31035	29466
55°	36328	19039	17299
60°	30754	10032	8684
65°	26631	5279	4203
70°	22151	3254	2276
75°	16373	2160	1292
80°	12849	1294	631
85°	10253	1258	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	5.6
10°-20°	454.2	16.1
20°-30°	670.7	23.8
30°-40°	691.2	24.5
40°-50°	477.4	16.9
50°-60°	235.3	8.3
60°-70°	95.3	3.4
70°-80°	34.0	1.2
80°-90°	7.0	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°	1283.5	45.5
0°-40°	1974.7	69.9
0°-60°	2687.4	95.2
0°-90°	2823.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1683	1683	1683	1683	1683	
5°	1661	1661	1669	1681	1687	157
15°	1547	1563	1610	1663	1687	436
25°	1386	1413	1474	1516	1539	634
35°	1077	1104	1132	1138	1142	668
45°	667	671	592	583	573	515
55°	380	366	199	187	181	343
65°	205	185	41	32	32	204
75°	77	65	10	6	6	87
85°	16	12	2	0	0	20
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°	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1679.0	1673.0	1677.1	1668.8	1679.0	1668.8	1671.0	1673.0	1671.0	1673.0	1675.0
5°	1660.8	1654.7	1660.8	1650.6	1660.8	1654.7	1654.7	1656.7	1656.7	1658.6	1660.8
7.5°	1636.4	1630.3	1636.4	1626.2	1638.4	1632.3	1632.3	1636.4	1634.3	1636.4	1640.4
10°	1608.0	1599.8	1605.9	1599.8	1612.0	1603.8	1608.0	1608.0	1608.0	1614.0	1618.1
12.5°	1577.5	1569.2	1577.5	1567.3	1579.4	1573.4	1575.3	1581.4	1583.5	1587.6	1589.6
15°	1547.0	1536.8	1540.9	1534.8	1547.0	1540.9	1542.9	1551.0	1551.0	1557.1	1563.2
17.5°	1508.3	1500.2	1508.3	1500.2	1510.3	1506.3	1510.3	1516.4	1516.4	1522.5	1528.5
20°	1473.7	1465.6	1471.7	1465.6	1477.8	1471.7	1473.7	1481.9	1483.9	1490.0	1496.1
22.5°	1431.1	1424.9	1429.0	1423.0	1435.1	1431.1	1433.1	1441.3	1443.3	1447.4	1457.5
25°	1386.3	1374.1	1380.2	1376.2	1388.4	1382.3	1386.3	1394.5	1398.5	1404.7	1412.8
27.5°	1321.2	1315.1	1319.2	1319.2	1329.4	1323.4	1325.3	1333.5	1339.6	1345.7	1355.8
30°	1254.2	1244.0	1248.1	1250.1	1258.3	1254.2	1258.3	1266.4	1268.4	1276.6	1284.6
32.5°	1168.9	1164.7	1172.9	1168.9	1172.9	1172.9	1174.9	1181.0	1185.0	1189.2	1199.4
35°	1077.3	1069.3	1077.3	1073.3	1083.5	1077.3	1083.5	1089.6	1089.6	1097.7	1103.8
37.5°	977.7	967.6	971.6	971.6	975.7	973.7	973.7	983.8	985.9	992.0	998.1
40°	859.8	855.8	863.9	861.9	863.9	863.9	865.9	872.0	876.1	878.1	880.2
42.5°	754.2	756.2	758.2	758.2	758.2	758.2	758.2	766.4	764.3	770.4	772.5
45°	666.7	658.6	662.7	660.7	666.7	660.7	666.7	672.9	668.8	674.9	670.7
47.5°	577.3	577.3	577.3	575.3	579.4	577.3	581.3	583.4	583.4	583.4	581.3
50°	506.2	500.1	502.1	502.1	504.1	502.1	506.2	508.2	508.2	504.1	496.0
52.5°	437.0	435.1	435.1	439.1	439.1	437.0	437.0	437.0	437.0	431.0	426.8
55°	380.1	376.1	378.1	378.1	378.1	378.1	380.1	378.1	378.1	372.0	365.9
57.5°	329.3	325.3	325.3	325.3	327.2	325.3	325.3	325.3	323.2	317.1	309.0
60°	280.5	278.5	280.5	280.5	282.5	280.5	280.5	280.5	276.5	270.4	262.2
62.5°	239.9	239.9	239.9	241.9	241.9	239.9	239.9	237.8	235.8	227.6	219.5
65°	205.3	203.2	205.3	205.3	207.3	207.3	205.3	203.2	201.3	193.1	185.0
67.5°	170.8	168.8	170.8	170.8	172.7	170.8	170.8	170.8	164.7	160.6	152.4
70°	138.2	136.2	136.2	136.2	138.2	134.2	136.2	136.2	132.1	126.0	117.9
72.5°	105.7	105.7	105.7	105.7	105.7	105.7	103.7	103.7	99.6	93.5	89.4
75°	77.3	77.3	79.2	79.2	77.3	77.3	77.3	75.2	73.1	69.1	65.1
77.5°	57.0	57.0	57.0	57.0	54.9	54.9	54.9	52.8	50.9	48.7	44.8
80°	40.7	40.7	40.7	38.7	40.7	38.7	38.7	38.7	34.6	32.4	30.5
82.5°	28.5	26.4	26.4	26.4	26.4	26.4	26.4	24.4	24.4	22.4	20.3
85°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	14.2	12.2	12.2
87.5°	8.1	10.2	10.2	10.2	10.2	10.2	10.2	8.1	8.1	8.1	6.1
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°	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1675.0	1675.0	1679.0	1673.0	1683.2	1677.1	1675.0	1685.2	1679.0	1677.1	1681.1
5°	1660.8	1662.8	1664.9	1660.8	1671.0	1664.9	1664.9	1675.0	1671.0	1668.8	1675.0
7.5°	1642.5	1644.5	1648.6	1646.5	1654.7	1650.6	1652.6	1662.8	1658.6	1658.6	1664.9
10°	1620.1	1624.2	1628.2	1628.2	1638.4	1634.3	1634.3	1646.5	1642.5	1644.5	1652.6
12.5°	1593.6	1599.8	1605.9	1608.0	1618.1	1612.0	1614.0	1628.2	1626.2	1628.2	1636.4
15°	1565.2	1573.4	1579.4	1579.4	1591.6	1585.5	1591.6	1605.9	1601.8	1609.9	1620.1
17.5°	1532.7	1540.9	1548.9	1551.0	1563.2	1559.1	1567.3	1581.4	1581.4	1585.5	1597.8
20°	1502.2	1512.4	1516.4	1522.5	1534.8	1532.7	1536.8	1553.1	1553.1	1559.1	1571.4
22.5°	1461.5	1471.7	1479.8	1485.9	1496.1	1496.1	1502.2	1516.4	1516.4	1520.5	1532.7
25°	1416.9	1429.0	1435.1	1441.3	1451.3	1449.3	1455.4	1467.7	1469.7	1473.7	1485.9
27.5°	1359.9	1370.1	1378.2	1382.3	1396.5	1388.4	1394.5	1408.7	1406.7	1410.8	1420.9
30°	1288.8	1299.0	1307.1	1307.1	1319.2	1319.2	1325.3	1331.4	1331.4	1335.5	1343.7
32.5°	1205.4	1217.6	1217.6	1223.8	1231.8	1223.8	1231.8	1240.0	1235.9	1242.0	1248.1
35°	1109.9	1116.0	1118.0	1118.0	1124.1	1122.1	1120.0	1126.1	1122.1	1132.2	1138.3
37.5°	994.0	1002.1	998.1	1002.1	1000.1	994.0	994.0	1004.2	996.0	998.1	1004.2
40°	882.2	882.2	880.2	870.0	872.0	865.9	863.9	865.9	857.8	855.8	863.9
42.5°	766.4	764.3	758.2	744.0	746.0	735.8	727.7	727.7	723.6	721.6	723.6
45°	662.7	656.6	646.4	630.2	626.1	617.9	601.7	597.6	591.5	591.5	593.5
47.5°	567.1	559.1	542.8	524.5	514.3	504.1	487.8	481.7	471.6	467.5	471.6
50°	487.8	473.6	453.3	426.8	416.6	404.5	388.3	378.1	367.9	363.9	361.8
52.5°	414.7	394.4	374.0	341.6	333.3	321.2	298.9	288.7	278.5	270.4	270.4
55°	351.6	333.3	305.0	274.4	262.2	250.0	227.6	213.4	203.2	199.2	195.2
57.5°	294.8	274.4	248.0	215.4	203.2	191.1	168.8	154.5	144.3	138.2	134.2
60°	248.0	225.6	199.2	170.8	156.5	144.3	122.0	107.7	97.5	91.5	87.4
62.5°	203.2	185.0	158.6	132.1	119.9	107.7	89.4	75.2	65.1	61.0	54.9
65°	170.8	152.4	128.1	105.7	95.5	83.3	67.1	54.9	46.8	40.7	36.6
67.5°	138.2	124.0	103.7	83.3	73.1	65.1	50.9	40.7	32.4	28.5	26.4
70°	109.8	95.5	79.2	63.0	57.0	48.7	38.7	28.5	24.4	20.3	18.3
72.5°	81.4	71.2	58.9	46.8	40.7	36.6	26.4	22.4	16.3	14.2	12.2
75°	58.9	50.9	42.6	32.4	28.5	26.4	20.3	14.2	12.2	10.2	8.1
77.5°	40.7	36.6	28.5	22.4	20.3	18.3	14.2	10.2	8.1	6.1	6.1
80°	26.4	22.4	18.3	14.2	14.2	12.2	8.1	6.1	6.1	4.1	4.1
82.5°	16.3	14.2	12.2	10.2	8.1	8.1	6.1	4.1	4.1	2.0	2.0
85°	10.2	8.1	6.1	6.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0
87.5°	4.1	4.1	4.1	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°	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1681.1	1681.1	1685.2	1679.0	1683.2	1683.2	1687.2	1679.0	1683.2	1685.2	1689.2
5°	1673.0	1675.0	1679.0	1677.1	1679.0	1679.0	1683.2	1673.0	1681.1	1681.1	1687.2
7.5°	1664.9	1664.9	1668.8	1666.9	1671.0	1673.0	1677.1	1668.8	1677.1	1677.1	1683.2
10°	1654.7	1654.7	1660.8	1658.6	1664.9	1666.9	1673.0	1664.9	1673.0	1675.0	1681.1
12.5°	1640.4	1642.5	1648.6	1648.6	1654.7	1658.6	1664.9	1660.8	1671.0	1673.0	1681.1
15°	1624.2	1628.2	1636.4	1634.3	1640.4	1646.5	1654.7	1648.6	1662.8	1666.9	1675.0
17.5°	1603.8	1608.0	1614.0	1614.0	1620.1	1624.2	1634.3	1630.3	1642.5	1644.5	1654.7
20°	1573.4	1579.4	1587.6	1585.5	1591.6	1595.7	1603.8	1599.8	1612.0	1616.0	1626.2
22.5°	1536.8	1540.9	1547.0	1547.0	1553.1	1557.1	1565.2	1559.1	1571.4	1573.4	1581.4
25°	1488.0	1492.0	1496.1	1498.1	1504.2	1506.3	1510.3	1506.3	1516.4	1518.5	1528.5
27.5°	1424.9	1427.0	1433.1	1433.1	1437.2	1439.1	1445.2	1437.2	1451.3	1451.3	1457.5
30°	1349.7	1347.7	1355.8	1351.8	1355.8	1355.8	1361.9	1357.9	1368.0	1364.1	1370.1
32.5°	1250.1	1254.2	1254.2	1250.1	1258.3	1256.2	1256.2	1252.2	1258.3	1260.3	1264.4
35°	1134.3	1140.4	1140.4	1142.4	1144.5	1138.3	1140.4	1128.2	1138.3	1140.4	1142.4
37.5°	1008.2	1002.1	1006.2	1000.1	1010.3	998.1	998.1	989.9	998.1	998.1	1000.1
40°	863.9	861.9	865.9	861.9	859.8	857.8	853.7	847.6	855.8	851.7	857.8
42.5°	727.7	725.7	725.7	721.6	719.6	719.6	715.6	711.4	709.5	709.5	719.6
45°	587.4	591.5	587.4	585.5	589.5	585.5	587.4	579.4	583.4	579.4	583.4
47.5°	469.5	471.6	467.5	463.4	469.5	463.4	463.4	457.3	465.6	465.6	461.4
50°	363.9	361.8	357.7	361.8	359.8	359.8	359.8	353.7	357.7	351.6	355.7
52.5°	268.3	266.3	266.3	264.3	266.3	264.3	264.3	262.2	262.2	260.2	262.2
55°	195.2	193.1	189.0	189.0	189.0	191.1	189.0	187.1	187.1	185.0	187.1
57.5°	132.1	128.1	128.1	128.1	128.1	126.0	126.0	124.0	126.0	124.0	126.0
60°	85.3	85.3	81.4	81.4	81.4	81.4	81.4	79.2	81.4	81.4	81.4
62.5°	52.8	52.8	50.9	48.7	50.9	48.7	48.7	48.7	50.9	48.7	50.9
65°	34.6	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
67.5°	24.4	22.4	22.4	22.4	22.4	22.4	22.4	20.3	22.4	22.4	22.4
70°	16.3	16.3	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
75°	8.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	6.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	4.1	4.1	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: P563932

CATALOG NUMBER: LX6C30D010 EX6C309030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1683.2	1685.2	1681.1	1683.2	1679.0	1683.2	1685.2	1689.2
5°	1679.0	1681.1	1677.1	1681.1	1677.1	1681.1	1683.2	1687.2
7.5°	1675.0	1679.0	1675.0	1679.0	1675.0	1679.0	1681.1	1685.2
10°	1675.0	1681.1	1677.1	1683.2	1677.1	1681.1	1685.2	1687.2
12.5°	1675.0	1681.1	1679.0	1683.2	1681.1	1685.2	1689.2	1693.2
15°	1671.0	1677.1	1673.0	1679.0	1677.1	1679.0	1687.2	1687.2
17.5°	1648.6	1654.7	1654.7	1658.6	1658.6	1664.9	1668.8	1673.0
20°	1620.1	1626.2	1624.2	1630.3	1630.3	1636.4	1640.4	1644.5
22.5°	1577.5	1585.5	1583.5	1589.6	1587.6	1591.6	1599.8	1597.8
25°	1522.5	1532.7	1530.7	1534.8	1532.7	1532.7	1536.8	1538.7
27.5°	1455.4	1461.5	1459.5	1463.6	1459.5	1463.6	1467.7	1469.7
30°	1368.0	1372.1	1370.1	1372.1	1370.1	1374.1	1376.2	1380.2
32.5°	1262.3	1268.4	1262.3	1266.4	1264.4	1264.4	1272.5	1268.4
35°	1136.3	1138.3	1140.4	1140.4	1136.3	1138.3	1142.4	1142.4
37.5°	996.0	1006.2	994.0	1000.1	998.1	998.1	998.1	1004.2
40°	849.8	851.7	847.6	847.6	847.6	845.6	853.7	851.7
42.5°	711.4	713.5	711.4	705.4	707.4	707.4	713.5	705.4
45°	577.3	581.3	579.4	579.4	575.3	575.3	577.3	573.2
47.5°	457.3	461.4	455.4	457.3	453.3	457.3	455.4	459.4
50°	347.6	351.6	349.6	351.6	351.6	347.6	353.7	345.5
52.5°	260.2	262.2	260.2	258.2	256.1	256.1	260.2	258.2
55°	185.0	182.9	182.9	182.9	185.0	185.0	182.9	181.0
57.5°	124.0	124.0	122.0	122.0	124.0	119.9	122.0	119.9
60°	79.2	79.2	79.2	79.2	77.3	79.2	79.2	79.2
62.5°	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
65°	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
67.5°	20.3	22.4	22.4	22.4	20.3	20.3	20.3	20.3
70°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)