

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: P685010

Luminaire Tested: **LX6C40D010 EX6409050 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685010
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: LX6C40D010 EX6409050 6LCSWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

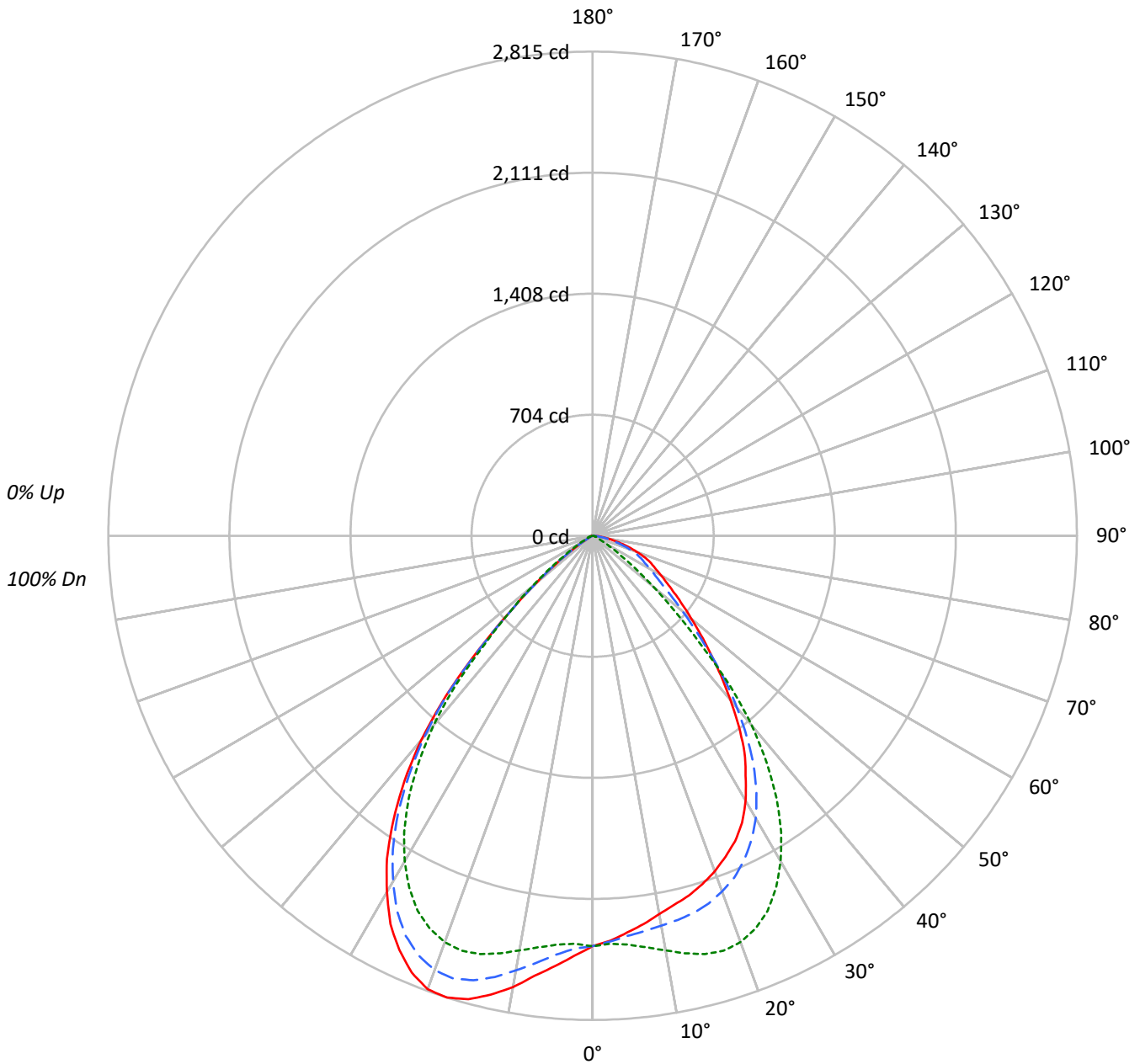
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4361.0 lumens
Efficiency: N/A
Efficacy: 92.8 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): 47
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°	130790	130790	130790
5°	127399	131290	138190
10°	124302	136237	148299
15°	122850	142912	158315
20°	121087	146639	163668
25°	118513	145551	160727
30°	112619	138319	151314
35°	103035	124711	135091
40°	89124	102993	110829
45°	75155	67550	72496
50°	63810	39103	36766
55°	55377	18742	14164
60°	50018	8749	3498
65°	48514	5020	1180
70°	43501	4023	1106
75°	35753	2902	487
80°	26645	1421	0
85°	22958	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.4	5.3
10°-20°	702.3	16.1
20°-30°	1073.1	24.6
30°-40°	1122.3	25.7
40°-50°	728.1	16.7
50°-60°	289.1	6.6
60°-70°	137.1	3.1
70°-80°	65.2	1.5
80°-90°	13.3	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°	2005.8	46.0
0°-40°	3128.2	71.7
0°-60°	4145.3	95.1
0°-90°	4361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4361.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2386	2386	2386	2386	2386	
5°	2315	2336	2386	2445	2511	219
15°	2165	2270	2518	2676	2790	610
25°	1959	2082	2406	2568	2657	897
35°	1540	1633	1864	1973	2019	952
45°	969	960	871	924	935	754
55°	579	493	196	153	148	525
65°	374	310	39	9	9	365
75°	169	137	14	4	2	182
85°	36	23	0	0	0	43
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°	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8
2.5°	2356.2	2360.7	2335.7	2328.8	2347.1	2353.8	2356.2	2349.3	2351.6	2360.7	2360.7
5°	2315.1	2319.6	2296.8	2290.0	2308.2	2312.9	2319.6	2317.4	2324.3	2337.9	2335.7
7.5°	2276.3	2283.2	2258.1	2249.0	2271.8	2283.2	2287.7	2287.7	2296.8	2315.1	2317.4
10°	2233.0	2242.1	2219.3	2214.7	2239.8	2251.2	2253.5	2258.1	2271.8	2296.8	2301.4
12.5°	2196.5	2205.6	2189.7	2182.8	2210.2	2221.6	2226.1	2235.3	2251.2	2283.2	2287.7
15°	2164.6	2171.4	2153.2	2148.6	2176.0	2189.7	2191.9	2205.6	2226.1	2262.6	2269.5
17.5°	2123.5	2128.0	2114.4	2109.9	2137.2	2150.8	2153.2	2169.1	2194.2	2230.7	2242.1
20°	2075.6	2080.2	2066.5	2061.9	2089.3	2105.2	2107.5	2121.3	2150.8	2189.7	2201.1
22.5°	2018.6	2027.7	2011.8	2007.2	2034.6	2048.2	2055.1	2066.5	2096.1	2134.9	2150.8
25°	1959.3	1959.3	1947.9	1945.6	1970.7	1986.7	1984.4	2000.3	2030.0	2068.8	2082.4
27.5°	1881.7	1879.4	1868.0	1865.8	1893.1	1906.9	1902.2	1918.3	1945.6	1984.4	1998.1
30°	1779.1	1783.7	1767.7	1763.1	1786.0	1808.8	1806.5	1822.4	1849.8	1886.3	1895.5
32.5°	1655.9	1660.5	1658.2	1651.4	1671.9	1683.3	1690.1	1701.5	1724.3	1763.1	1772.3
35°	1539.6	1532.7	1523.6	1523.6	1544.1	1562.4	1555.5	1569.3	1592.1	1630.8	1633.1
37.5°	1395.9	1393.6	1389.1	1384.5	1407.3	1411.9	1414.2	1423.3	1443.8	1475.7	1471.2
40°	1245.4	1247.6	1245.4	1236.2	1249.9	1268.2	1265.9	1270.5	1288.7	1311.5	1304.7
42.5°	1103.9	1103.9	1103.9	1094.8	1110.8	1120.0	1124.5	1122.2	1126.7	1147.3	1138.1
45°	969.4	971.6	969.4	967.1	969.4	974.0	969.4	967.1	967.1	974.0	960.2
47.5°	853.1	853.1	846.2	839.4	846.2	848.5	841.7	834.8	832.5	830.3	807.5
50°	748.2	745.8	743.6	732.2	739.0	741.3	732.2	727.6	718.5	707.1	679.7
52.5°	656.9	654.6	652.3	640.9	645.5	647.8	638.7	629.5	618.1	609.0	574.8
55°	579.4	577.0	577.0	570.3	565.6	570.3	561.1	554.2	538.3	526.9	492.7
57.5°	513.2	513.2	508.6	501.8	504.1	504.1	495.0	485.8	472.1	458.5	431.1
60°	456.2	456.2	456.2	449.3	449.3	449.3	444.8	435.7	424.3	410.6	383.2
62.5°	410.6	410.6	408.2	401.5	403.7	403.7	399.2	390.1	378.7	369.5	342.1
65°	374.0	374.0	374.0	367.3	367.3	369.5	364.9	355.9	346.7	335.3	310.2
67.5°	328.4	326.2	326.2	321.6	323.9	326.2	321.6	314.8	303.4	296.5	273.7
70°	271.4	273.7	276.0	269.2	271.4	271.4	269.2	262.3	255.5	248.6	228.1
72.5°	221.3	221.3	219.0	216.7	216.7	219.0	214.4	207.5	203.0	198.5	182.4
75°	168.8	166.5	168.8	164.3	164.3	164.3	159.6	157.4	155.1	148.2	136.8
77.5°	123.2	120.9	120.9	116.3	118.6	118.6	116.3	111.8	107.2	104.9	95.8
80°	84.4	84.4	84.4	82.1	82.1	79.8	79.8	77.6	73.0	70.7	66.2
82.5°	57.0	57.0	57.0	54.8	54.8	54.8	52.5	50.2	47.9	45.6	41.1
85°	36.5	36.5	36.5	34.2	34.2	34.2	31.9	31.9	29.7	27.3	22.8
87.5°	20.5	20.5	20.5	18.3	18.3	18.3	18.3	18.3	15.9	13.7	11.4
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°	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8
2.5°	2376.6	2344.8	2365.2	2365.2	2358.5	2376.6	2388.1	2397.2	2394.9	2374.4	2372.1
5°	2358.5	2331.0	2353.8	2356.2	2349.3	2374.4	2390.4	2401.8	2404.1	2385.8	2388.1
7.5°	2344.8	2322.0	2351.6	2360.7	2358.5	2381.3	2399.5	2417.7	2426.9	2413.2	2415.5
10°	2337.9	2319.6	2351.6	2365.2	2367.6	2392.7	2420.0	2445.1	2456.5	2447.4	2454.2
12.5°	2328.8	2317.4	2353.8	2374.4	2383.5	2408.6	2442.8	2472.5	2490.7	2486.2	2499.8
15°	2319.6	2310.5	2353.8	2383.5	2394.9	2417.7	2456.5	2499.8	2520.4	2518.1	2536.4
17.5°	2296.8	2294.6	2340.2	2372.1	2388.1	2415.5	2451.9	2504.4	2525.0	2529.5	2552.3
20°	2260.4	2260.4	2310.5	2344.8	2363.0	2388.1	2433.7	2483.9	2509.0	2513.6	2538.7
22.5°	2210.2	2214.7	2262.6	2296.8	2324.3	2342.4	2390.4	2442.8	2465.6	2472.5	2499.8
25°	2144.1	2148.6	2194.2	2228.4	2258.1	2278.6	2324.3	2372.1	2399.5	2406.3	2426.9
27.5°	2057.4	2066.5	2109.9	2144.1	2169.1	2182.8	2230.7	2280.9	2301.4	2308.2	2328.8
30°	1957.0	1959.3	2002.6	2032.3	2057.4	2068.8	2109.9	2162.3	2178.3	2185.1	2214.7
32.5°	1833.8	1831.6	1872.6	1900.0	1920.5	1934.2	1977.5	2011.8	2027.7	2039.1	2055.1
35°	1685.6	1683.3	1712.9	1744.9	1760.9	1765.4	1808.8	1845.2	1854.4	1863.5	1884.1
37.5°	1519.1	1519.1	1544.1	1560.2	1578.3	1585.2	1605.8	1646.8	1662.8	1660.5	1676.4
40°	1343.4	1334.4	1352.5	1368.6	1373.1	1375.3	1395.9	1427.8	1439.2	1439.2	1450.6
42.5°	1158.7	1145.0	1147.3	1156.4	1160.9	1145.0	1158.7	1179.2	1172.3	1181.5	1183.8
45°	962.6	942.0	932.9	912.3	916.9	900.9	891.8	896.4	894.1	871.3	875.9
47.5°	802.8	766.4	750.4	720.8	713.9	695.7	684.3	663.7	645.5	645.5	634.0
50°	668.3	631.8	599.8	565.6	554.2	538.3	513.2	485.8	472.1	458.5	447.1
52.5°	561.1	522.3	483.5	447.1	431.1	410.6	376.3	349.0	323.9	310.2	296.5
55°	474.4	431.1	390.1	351.2	330.7	310.2	276.0	244.1	214.4	196.1	184.7
57.5°	408.2	367.3	323.9	282.8	264.6	241.8	205.3	171.0	143.7	123.2	111.8
60°	360.4	319.3	280.6	237.2	219.0	196.1	157.4	125.4	98.1	79.8	66.2
62.5°	319.3	282.8	241.8	203.0	184.7	161.9	125.4	93.5	68.4	50.2	38.7
65°	289.7	253.2	219.0	180.2	164.3	141.5	107.2	77.6	54.8	38.7	27.3
67.5°	255.5	223.5	189.3	157.4	141.5	123.2	91.2	66.2	45.6	31.9	22.8
70°	214.4	189.3	159.6	130.0	118.6	102.6	75.3	54.8	36.5	25.1	18.3
72.5°	171.0	150.5	127.7	104.9	95.8	79.8	61.6	43.4	27.3	18.3	13.7
75°	130.0	114.0	95.8	79.8	70.7	61.6	45.6	31.9	20.5	13.7	9.1
77.5°	89.0	82.1	68.4	54.8	50.2	43.4	29.7	20.5	13.7	9.1	4.5
80°	61.6	54.8	45.6	36.5	31.9	27.3	18.3	13.7	6.9	4.5	2.3
82.5°	38.7	31.9	27.3	22.8	20.5	15.9	11.4	6.9	4.5	2.3	2.3
85°	20.5	18.3	15.9	11.4	11.4	9.1	6.9	4.5	2.3	0.0	0.0
87.5°	11.4	9.1	6.9	4.5	4.5	2.3	2.3	2.3	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°	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8
2.5°	2399.5	2399.5	2397.2	2424.6	2392.7	2424.6	2408.6	2424.6	2401.8	2399.5	2401.8
5°	2417.7	2424.6	2426.9	2451.9	2422.3	2461.1	2447.4	2461.1	2445.1	2449.7	2456.5
7.5°	2454.2	2465.6	2463.4	2495.3	2465.6	2509.0	2499.8	2520.4	2504.4	2509.0	2518.1
10°	2495.3	2509.0	2511.2	2543.2	2515.8	2568.2	2556.8	2579.6	2566.0	2572.9	2584.3
12.5°	2543.2	2559.2	2561.5	2597.9	2568.2	2623.0	2616.2	2639.0	2627.6	2634.4	2648.1
15°	2579.6	2602.5	2607.1	2643.5	2611.6	2668.6	2664.1	2693.8	2675.5	2686.9	2698.3
17.5°	2597.9	2618.5	2627.6	2661.8	2634.4	2691.4	2686.9	2712.0	2698.3	2709.7	2723.4
20°	2586.5	2611.6	2618.5	2652.7	2625.3	2682.4	2675.5	2700.6	2686.9	2696.0	2709.7
22.5°	2545.4	2570.6	2579.6	2611.6	2586.5	2639.0	2636.7	2659.5	2641.3	2652.7	2664.1
25°	2472.5	2499.8	2504.4	2534.0	2506.7	2561.5	2556.8	2582.0	2568.2	2575.1	2591.1
27.5°	2367.6	2399.5	2406.3	2431.4	2410.9	2456.5	2456.5	2477.0	2461.1	2461.1	2477.0
30°	2242.1	2274.0	2278.6	2299.1	2280.9	2322.0	2324.3	2344.8	2319.6	2333.4	2335.7
32.5°	2089.3	2109.9	2123.5	2141.7	2114.4	2166.9	2160.0	2176.0	2162.3	2162.3	2173.7
35°	1904.5	1929.7	1936.5	1959.3	1936.5	1977.5	1977.5	1986.7	1973.0	1973.0	1991.2
37.5°	1703.8	1722.1	1724.3	1747.1	1728.9	1763.1	1760.9	1767.7	1754.0	1763.1	1763.1
40°	1468.9	1482.6	1487.1	1498.5	1496.3	1521.3	1519.1	1523.6	1516.8	1519.1	1523.6
42.5°	1195.2	1213.4	1222.6	1231.7	1218.0	1252.2	1245.4	1252.2	1249.9	1252.2	1259.1
45°	880.4	894.1	900.9	903.2	898.7	919.2	935.1	921.5	923.7	919.2	928.4
47.5°	636.4	638.7	634.0	647.8	636.4	645.5	650.1	652.3	638.7	636.4	645.5
50°	435.7	447.1	431.1	437.9	435.7	444.8	440.2	442.5	428.8	435.7	431.1
52.5°	289.7	287.4	282.8	285.1	280.6	280.6	280.6	285.1	276.0	271.4	266.9
55°	175.7	171.0	161.9	159.6	159.6	161.9	157.4	152.9	152.9	150.5	150.5
57.5°	102.6	95.8	91.2	89.0	84.4	82.1	79.8	79.8	75.3	75.3	75.3
60°	57.0	50.2	45.6	41.1	41.1	38.7	36.5	34.2	34.2	34.2	31.9
62.5°	29.7	25.1	20.5	18.3	18.3	15.9	13.7	13.7	13.7	13.7	11.4
65°	20.5	15.9	13.7	11.4	11.4	9.1	9.1	9.1	9.1	9.1	9.1
67.5°	15.9	13.7	11.4	9.1	9.1	9.1	6.9	6.9	6.9	6.9	6.9
70°	13.7	9.1	9.1	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
72.5°	9.1	9.1	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
75°	6.9	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
80°	2.3	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: P685010

CATALOG NUMBER: LX6C40D010 EX6409050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8	2385.8
2.5°	2422.3	2420.0	2422.3	2426.9	2417.7	2445.1	2431.4	2445.1
5°	2474.8	2477.0	2479.3	2486.2	2474.8	2509.0	2490.7	2511.2
7.5°	2543.2	2545.4	2547.8	2554.6	2547.8	2582.0	2561.5	2579.6
10°	2613.9	2618.5	2618.5	2629.9	2623.0	2654.9	2641.3	2664.1
12.5°	2680.0	2684.6	2689.2	2696.0	2691.4	2725.6	2714.2	2732.5
15°	2732.5	2741.6	2743.9	2753.0	2748.4	2785.0	2771.3	2789.5
17.5°	2757.6	2766.7	2766.7	2778.1	2773.6	2812.3	2794.1	2814.6
20°	2743.9	2750.8	2753.0	2764.5	2759.9	2798.7	2780.4	2805.5
22.5°	2700.6	2702.8	2705.2	2716.6	2714.2	2748.4	2732.5	2748.4
25°	2620.7	2627.6	2625.3	2634.4	2634.4	2661.8	2643.5	2657.2
27.5°	2506.7	2513.6	2513.6	2525.0	2515.8	2543.2	2525.0	2545.4
30°	2367.6	2374.4	2369.9	2379.0	2369.9	2397.2	2383.5	2390.4
32.5°	2201.1	2201.1	2203.3	2205.6	2201.1	2226.1	2212.5	2226.1
35°	2002.6	2007.2	2009.5	2011.8	2007.2	2025.4	2009.5	2018.6
37.5°	1779.1	1790.5	1788.2	1790.5	1783.7	1806.5	1792.7	1797.4
40°	1539.6	1539.6	1537.3	1541.9	1535.1	1553.3	1544.1	1548.7
42.5°	1261.3	1268.2	1259.1	1270.5	1252.2	1277.3	1268.2	1261.3
45°	946.6	937.4	935.1	937.4	930.6	932.9	939.8	935.1
47.5°	645.5	645.5	640.9	634.0	643.2	645.5	636.4	636.4
50°	433.4	433.4	428.8	426.5	431.1	428.8	424.3	431.1
52.5°	276.0	266.9	266.9	271.4	266.9	262.3	269.2	264.6
55°	150.5	146.0	146.0	150.5	146.0	146.0	143.7	148.2
57.5°	73.0	75.3	73.0	73.0	73.0	73.0	70.7	73.0
60°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9
62.5°	13.7	13.7	11.4	11.4	11.4	11.4	11.4	11.4
65°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
67.5°	6.9	6.9	6.9	6.9	6.9	9.1	6.9	6.9
70°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
72.5°	6.9	6.9	9.1	9.1	9.1	9.1	9.1	9.1
75°	4.5	4.5	4.5	2.3	2.3	2.3	2.3	2.3
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)