

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: P685000

Luminaire Tested: **LX6C40D010 EX6409035 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685000
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 EX6409035 6LCSWLI
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

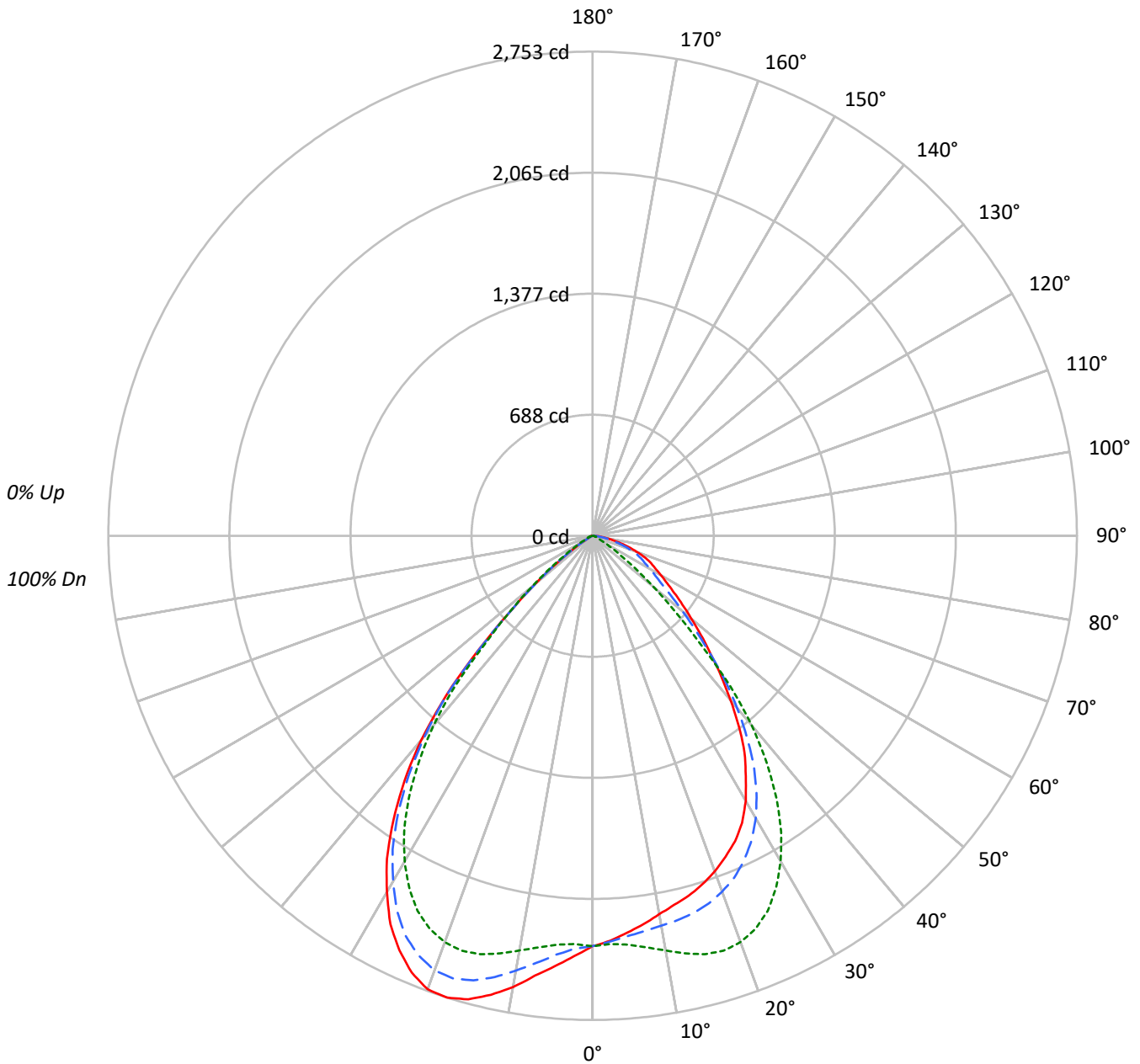
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4266.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

TEST NUMBER: P685000
CATALOG NUMBER: LX6C40D010 EX6409035 6LCSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P685000

CATALOG NUMBER: LX6C40D010 EX6409035 6LCSWLI

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°	127939	127939	127939
5°	124625	128428	135180
10°	121591	133270	145071
15°	120171	139796	154865
20°	118450	143442	160098
25°	115930	142381	157225
30°	110169	135306	148016
35°	100793	121994	132146
40°	87178	100753	108410
45°	73519	66084	70922
50°	62420	38250	35965
55°	54163	18341	13859
60°	48922	8563	3421
65°	47463	4916	1154
70°	42555	3943	1074
75°	34970	2838	487
80°	26045	1389	0
85°	22455	0	0



TEST NUMBER: P685000

CATALOG NUMBER: LX6C40D010 EX6409035 6LCSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	5.3
10°-20°	687.0	16.1
20°-30°	1049.7	24.6
30°-40°	1097.9	25.7
40°-50°	712.2	16.7
50°-60°	282.8	6.6
60°-70°	134.1	3.1
70°-80°	63.8	1.5
80°-90°	13.0	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°	1962.2	46.0
0°-40°	3060.1	71.7
0°-60°	4055.1	95.1
0°-90°	4266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4266.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2334	2334	2334	2334	2334	
5°	2265	2285	2334	2392	2456	214
15°	2117	2220	2463	2617	2729	597
25°	1917	2037	2354	2512	2599	878
35°	1506	1598	1823	1930	1975	931
45°	948	939	852	904	915	738
55°	567	482	192	150	145	514
65°	366	303	38	9	9	357
75°	165	134	13	4	2	178
85°	36	22	0	0	0	42
90°	0	0	0	0	0	



TEST NUMBER: P685000

CATALOG NUMBER: LX6C40D010 EX6409035 6LCSWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8
2.5°	2304.8	2309.3	2284.8	2278.1	2295.9	2302.6	2304.8	2298.1	2300.4	2309.3	2309.3
5°	2264.7	2269.1	2246.8	2240.1	2258.0	2262.5	2269.1	2266.9	2273.6	2287.0	2284.8
7.5°	2226.8	2233.5	2208.9	2200.0	2222.3	2233.5	2237.9	2237.9	2246.8	2264.7	2266.9
10°	2184.3	2193.3	2171.0	2166.5	2191.0	2202.2	2204.4	2208.9	2222.3	2246.8	2251.2
12.5°	2148.7	2157.6	2142.0	2135.3	2162.0	2173.2	2177.6	2186.6	2202.2	2233.5	2237.9
15°	2117.4	2124.1	2106.2	2101.8	2128.6	2142.0	2144.2	2157.6	2177.6	2213.3	2220.0
17.5°	2077.2	2081.7	2068.3	2063.9	2090.6	2104.0	2106.2	2121.8	2146.4	2182.1	2193.3
20°	2030.4	2034.9	2021.5	2017.0	2043.8	2059.4	2061.6	2075.1	2104.0	2142.0	2153.1
22.5°	1974.6	1983.6	1968.0	1963.4	1990.3	2003.6	2010.3	2021.5	2050.5	2088.4	2104.0
25°	1916.6	1916.6	1905.5	1903.2	1927.8	1943.4	1941.1	1956.7	1985.7	2023.7	2037.1
27.5°	1840.7	1838.5	1827.3	1825.1	1851.9	1865.3	1860.8	1876.5	1903.2	1941.1	1954.5
30°	1740.4	1744.8	1729.2	1724.7	1747.1	1769.4	1767.1	1782.7	1809.5	1845.2	1854.2
32.5°	1619.9	1624.3	1622.1	1615.4	1635.5	1646.6	1653.3	1664.5	1686.8	1724.7	1733.7
35°	1506.1	1499.3	1490.5	1490.5	1510.5	1528.4	1521.7	1535.1	1557.4	1595.3	1597.5
37.5°	1365.5	1363.2	1358.8	1354.4	1376.7	1381.1	1383.4	1392.3	1412.4	1443.6	1439.1
40°	1218.2	1220.4	1218.2	1209.3	1222.7	1240.6	1238.3	1242.8	1260.6	1282.9	1276.3
42.5°	1079.9	1079.9	1079.9	1071.0	1086.6	1095.6	1100.0	1097.7	1102.2	1122.3	1113.3
45°	948.3	950.5	948.3	946.0	948.3	952.7	948.3	946.0	946.0	952.7	939.3
47.5°	834.5	834.5	827.8	821.1	827.8	830.0	823.3	816.6	814.4	812.2	789.9
50°	731.9	729.6	727.4	716.3	722.9	725.1	716.3	711.7	702.8	691.7	664.9
52.5°	642.6	640.4	638.1	626.9	631.5	633.7	624.8	615.8	604.6	595.7	562.3
55°	566.7	564.5	564.5	557.8	553.3	557.8	548.9	542.2	526.6	515.4	481.9
57.5°	502.0	502.0	497.5	490.8	493.1	493.1	484.2	475.2	461.8	448.5	421.7
60°	446.2	446.2	446.2	439.5	439.5	439.5	435.1	426.2	415.0	401.6	374.9
62.5°	401.6	401.6	399.3	392.7	394.9	394.9	390.5	381.6	370.4	361.4	334.7
65°	365.9	365.9	365.9	359.3	359.3	361.4	357.0	348.1	339.1	328.0	303.4
67.5°	321.3	319.1	319.1	314.6	316.8	319.1	314.6	307.9	296.8	290.1	267.8
70°	265.5	267.8	269.9	263.3	265.5	265.5	263.3	256.6	249.9	243.2	223.2
72.5°	216.4	216.4	214.2	212.0	212.0	214.2	209.7	203.0	198.6	194.1	178.5
75°	165.1	162.9	165.1	160.7	160.7	160.7	156.1	154.0	151.7	145.0	133.8
77.5°	120.5	118.2	118.2	113.8	116.1	116.1	113.8	109.4	104.8	102.6	93.7
80°	82.5	82.5	82.5	80.3	80.3	78.1	78.1	75.9	71.4	69.2	64.7
82.5°	55.8	55.8	55.8	53.6	53.6	53.6	51.3	49.1	46.9	44.6	40.2
85°	35.7	35.7	35.7	33.5	33.5	33.5	31.2	31.2	29.0	26.8	22.3
87.5°	20.0	20.0	20.0	17.9	17.9	17.9	17.9	17.9	15.6	13.4	11.2
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: P685000

CATALOG NUMBER: LX6C40D010 EX6409035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8
2.5°	2324.9	2293.7	2313.7	2313.7	2307.1	2324.9	2336.1	2345.0	2342.7	2322.7	2320.4
5°	2307.1	2280.3	2302.6	2304.8	2298.1	2322.7	2338.3	2349.4	2351.7	2333.8	2336.1
7.5°	2293.7	2271.4	2300.4	2309.3	2307.1	2329.4	2347.3	2365.0	2374.0	2360.6	2362.9
10°	2287.0	2269.1	2300.4	2313.7	2316.0	2340.6	2367.3	2391.9	2403.0	2394.1	2400.8
12.5°	2278.1	2266.9	2302.6	2322.7	2331.6	2356.2	2389.6	2418.6	2436.5	2432.0	2445.4
15°	2269.1	2260.2	2302.6	2331.6	2342.7	2365.0	2403.0	2445.4	2465.5	2463.2	2481.1
17.5°	2246.8	2244.6	2289.2	2320.4	2336.1	2362.9	2398.5	2449.8	2470.0	2474.4	2496.7
20°	2211.2	2211.2	2260.2	2293.7	2311.5	2336.1	2380.7	2429.8	2454.4	2458.8	2483.4
22.5°	2162.0	2166.5	2213.3	2246.8	2273.6	2291.4	2338.3	2389.6	2411.9	2418.6	2445.4
25°	2097.4	2101.8	2146.4	2179.9	2208.9	2228.9	2273.6	2320.4	2347.3	2353.9	2374.0
27.5°	2012.6	2021.5	2063.9	2097.4	2121.8	2135.3	2182.1	2231.2	2251.2	2258.0	2278.1
30°	1914.4	1916.6	1959.0	1988.0	2012.6	2023.7	2063.9	2115.2	2130.8	2137.5	2166.5
32.5°	1793.9	1791.7	1831.9	1858.6	1878.6	1892.1	1934.4	1968.0	1983.6	1994.7	2010.3
35°	1648.9	1646.6	1675.6	1706.9	1722.5	1726.9	1769.4	1805.0	1814.0	1822.9	1843.0
37.5°	1486.0	1486.0	1510.5	1526.2	1544.0	1550.7	1570.8	1611.0	1626.6	1624.3	1639.9
40°	1314.2	1305.3	1323.1	1338.8	1343.2	1345.4	1365.5	1396.7	1407.9	1407.9	1419.0
42.5°	1133.5	1120.0	1122.3	1131.2	1135.6	1120.0	1133.5	1153.5	1146.8	1155.8	1158.0
45°	941.6	921.5	912.6	892.4	897.0	881.3	872.4	876.8	874.7	852.4	856.8
47.5°	785.4	749.7	734.0	705.1	698.4	680.5	669.4	649.3	631.5	631.5	620.2
50°	653.8	618.1	586.8	553.3	542.2	526.6	502.0	475.2	461.8	448.5	437.3
52.5°	548.9	511.0	473.0	437.3	421.7	401.6	368.1	341.4	316.8	303.4	290.1
55°	464.1	421.7	381.6	343.6	323.5	303.4	269.9	238.8	209.7	191.9	180.7
57.5°	399.3	359.3	316.8	276.7	258.8	236.5	200.8	167.3	140.6	120.5	109.4
60°	352.6	312.4	274.5	232.0	214.2	191.9	154.0	122.7	95.9	78.1	64.7
62.5°	312.4	276.7	236.5	198.6	180.7	158.4	122.7	91.5	66.9	49.1	37.9
65°	283.4	247.6	214.2	176.3	160.7	138.4	104.8	75.9	53.6	37.9	26.8
67.5°	249.9	218.6	185.2	154.0	138.4	120.5	89.2	64.7	44.6	31.2	22.3
70°	209.7	185.2	156.1	127.2	116.1	100.4	73.6	53.6	35.7	24.6	17.9
72.5°	167.3	147.3	125.0	102.6	93.7	78.1	60.2	42.4	26.8	17.9	13.4
75°	127.2	111.5	93.7	78.1	69.2	60.2	44.6	31.2	20.0	13.4	8.9
77.5°	87.0	80.3	66.9	53.6	49.1	42.4	29.0	20.0	13.4	8.9	4.4
80°	60.2	53.6	44.6	35.7	31.2	26.8	17.9	13.4	6.7	4.4	2.3
82.5°	37.9	31.2	26.8	22.3	20.0	15.6	11.2	6.7	4.4	2.3	2.3
85°	20.0	17.9	15.6	11.2	11.2	8.9	6.7	4.4	2.3	0.0	0.0
87.5°	11.2	8.9	6.7	4.4	4.4	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



TEST NUMBER: P685000

CATALOG NUMBER: LX6C40D010 EX6409035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8
2.5°	2347.3	2347.3	2345.0	2371.8	2340.6	2371.8	2356.2	2371.8	2349.4	2347.3	2349.4
5°	2365.0	2371.8	2374.0	2398.5	2369.6	2407.5	2394.1	2407.5	2391.9	2396.3	2403.0
7.5°	2400.8	2411.9	2409.7	2440.9	2411.9	2454.4	2445.4	2465.5	2449.8	2454.4	2463.2
10°	2440.9	2454.4	2456.5	2487.8	2461.0	2512.3	2501.1	2523.5	2510.1	2516.8	2528.0
12.5°	2487.8	2503.4	2505.7	2541.3	2512.3	2565.9	2559.2	2581.5	2570.3	2577.0	2590.5
15°	2523.5	2545.8	2550.3	2585.9	2554.7	2610.5	2606.1	2635.1	2617.2	2628.4	2639.5
17.5°	2541.3	2561.4	2570.3	2603.8	2577.0	2632.8	2628.4	2652.9	2639.5	2650.7	2664.1
20°	2530.2	2554.7	2561.4	2594.9	2568.2	2623.9	2617.2	2641.8	2628.4	2637.3	2650.7
22.5°	2490.0	2514.6	2523.5	2554.7	2530.2	2581.5	2579.3	2601.6	2583.8	2594.9	2606.1
25°	2418.6	2445.4	2449.8	2478.8	2452.1	2505.7	2501.1	2525.7	2512.3	2519.0	2534.6
27.5°	2316.0	2347.3	2353.9	2378.5	2358.4	2403.0	2403.0	2423.1	2407.5	2407.5	2423.1
30°	2193.3	2224.5	2228.9	2249.1	2231.2	2271.4	2273.6	2293.7	2269.1	2282.5	2284.8
32.5°	2043.8	2063.9	2077.2	2095.1	2068.3	2119.7	2113.0	2128.6	2115.2	2115.2	2126.4
35°	1863.1	1887.6	1894.3	1916.6	1894.3	1934.4	1934.4	1943.4	1930.0	1930.0	1947.8
37.5°	1666.7	1684.6	1686.8	1709.1	1691.2	1724.7	1722.5	1729.2	1715.8	1724.7	1724.7
40°	1436.9	1450.3	1454.7	1465.9	1463.7	1488.2	1486.0	1490.5	1483.7	1486.0	1490.5
42.5°	1169.2	1187.0	1195.9	1204.8	1191.5	1225.0	1218.2	1225.0	1222.7	1225.0	1231.7
45°	861.3	874.7	881.3	883.6	879.1	899.2	914.8	901.4	903.6	899.2	908.1
47.5°	622.5	624.8	620.2	633.7	622.5	631.5	635.9	638.1	624.8	622.5	631.5
50°	426.2	437.3	421.7	428.4	426.2	435.1	430.6	432.9	419.5	426.2	421.7
52.5°	283.4	281.1	276.7	278.9	274.5	274.5	274.5	278.9	269.9	265.5	261.1
55°	171.8	167.3	158.4	156.1	156.1	158.4	154.0	149.5	149.5	147.3	147.3
57.5°	100.4	93.7	89.2	87.0	82.5	80.3	78.1	78.1	73.6	73.6	73.6
60°	55.8	49.1	44.6	40.2	40.2	37.9	35.7	33.5	33.5	33.5	31.2
62.5°	29.0	24.6	20.0	17.9	17.9	15.6	13.4	13.4	13.4	13.4	11.2
65°	20.0	15.6	13.4	11.2	11.2	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	15.6	13.4	11.2	8.9	8.9	8.9	6.7	6.7	6.7	6.7	6.7
70°	13.4	8.9	8.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
72.5°	8.9	8.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
75°	6.7	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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: P685000

CATALOG NUMBER: LX6C40D010 EX6409035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8	2333.8
2.5°	2369.6	2367.3	2369.6	2374.0	2365.0	2391.9	2378.5	2391.9
5°	2420.9	2423.1	2425.3	2432.0	2420.9	2454.4	2436.5	2456.5
7.5°	2487.8	2490.0	2492.3	2499.0	2492.3	2525.7	2505.7	2523.5
10°	2557.0	2561.4	2561.4	2572.6	2565.9	2597.1	2583.8	2606.1
12.5°	2621.7	2626.1	2630.6	2637.3	2632.8	2666.3	2655.1	2673.0
15°	2673.0	2681.9	2684.1	2693.0	2688.6	2724.3	2710.9	2728.7
17.5°	2697.5	2706.4	2706.4	2717.6	2713.1	2751.1	2733.2	2753.3
20°	2684.1	2690.8	2693.0	2704.3	2699.7	2737.7	2719.9	2744.3
22.5°	2641.8	2644.0	2646.2	2657.4	2655.1	2688.6	2673.0	2688.6
25°	2563.6	2570.3	2568.2	2577.0	2577.0	2603.8	2585.9	2599.3
27.5°	2452.1	2458.8	2458.8	2470.0	2461.0	2487.8	2470.0	2490.0
30°	2316.0	2322.7	2318.2	2327.1	2318.2	2345.0	2331.6	2338.3
32.5°	2153.1	2153.1	2155.3	2157.6	2153.1	2177.6	2164.3	2177.6
35°	1959.0	1963.4	1965.7	1968.0	1963.4	1981.3	1965.7	1974.6
37.5°	1740.4	1751.5	1749.3	1751.5	1744.8	1767.1	1753.7	1758.2
40°	1506.1	1506.1	1503.8	1508.3	1501.6	1519.5	1510.5	1514.9
42.5°	1233.8	1240.6	1231.7	1242.8	1225.0	1249.4	1240.6	1233.8
45°	926.0	917.0	914.8	917.0	910.3	912.6	919.3	914.8
47.5°	631.5	631.5	626.9	620.2	629.2	631.5	622.5	622.5
50°	423.9	423.9	419.5	417.2	421.7	419.5	415.0	421.7
52.5°	269.9	261.1	261.1	265.5	261.1	256.6	263.3	258.8
55°	147.3	142.8	142.8	147.3	142.8	142.8	140.6	145.0
57.5°	71.4	73.6	71.4	71.4	71.4	71.4	69.2	71.4
60°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
62.5°	13.4	13.4	11.2	11.2	11.2	11.2	11.2	11.2
65°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	6.7	6.7	6.7	6.7	6.7	8.9	6.7	6.7
70°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
72.5°	6.7	6.7	8.9	8.9	8.9	8.9	8.9	8.9
75°	4.4	4.4	4.4	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)