

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: P684399

Luminaire Tested: **LX6C50D010 EX6C509050 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684399
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: LX6C50D010 EX6C509050 6LCSWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

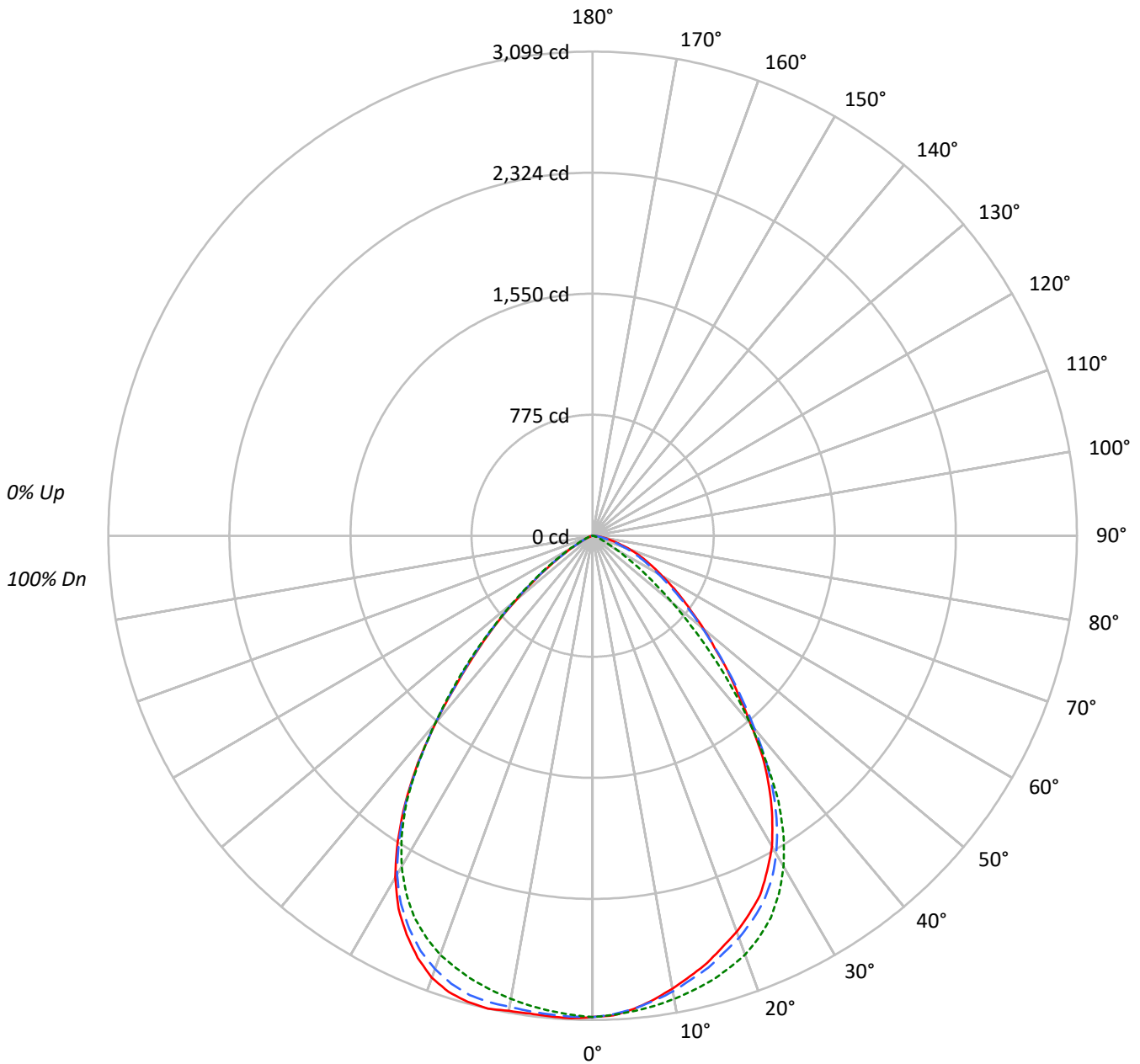
Lumens per Lamp: N/A
Luminaire Lumens: 5168.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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: P684399

CATALOG NUMBER: LX6C50D010 EX6C509050 6LCSWH

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								
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°	168874	168874	168874
5°	167262	168077	169926
10°	163813	167538	171891
15°	160682	167226	175251
20°	157350	166463	175581
25°	153475	163147	170345
30°	145307	154720	159904
35°	131959	138678	139923
40°	112625	112081	111552
45°	94599	83931	81334
50°	79008	56791	53943
55°	66492	34847	31645
60°	56289	18365	15909
65°	48747	9651	7718
70°	40536	5963	4167
75°	29950	3940	2372
80°	23488	2336	1200
85°	18744	2390	0



TEST NUMBER: P684399

CATALOG NUMBER: LX6C50D010 EX6C509050 6LCSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	5.6
10°-20°	831.2	16.1
20°-30°	1227.5	23.8
30°-40°	1265.0	24.5
40°-50°	873.7	16.9
50°-60°	430.7	8.3
60°-70°	174.5	3.4
70°-80°	62.2	1.2
80°-90°	12.9	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°	2349.0	45.5
0°-40°	3614.0	69.9
0°-60°	4918.4	95.2
0°-90°	5168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5168.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3080	3080	3080	3080	3080	
5°	3040	3040	3054	3077	3088	287
15°	2831	2861	2946	3043	3088	797
25°	2537	2586	2697	2775	2816	1160
35°	1972	2020	2072	2083	2091	1222
45°	1220	1228	1083	1068	1049	943
55°	696	670	365	342	331	629
65°	376	339	74	60	60	373
75°	141	119	19	11	11	159
85°	30	22	4	0	0	36
90°	0	0	0	0	0	



TEST NUMBER: P684399

CATALOG NUMBER: LX6C50D010 EX6C509050 6LCSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5
2.5°	3072.9	3061.9	3069.3	3054.3	3072.9	3054.3	3058.1	3061.9	3058.1	3061.9	3065.5
5°	3039.5	3028.3	3039.5	3020.9	3039.5	3028.3	3028.3	3032.1	3032.1	3035.7	3039.5
7.5°	2994.9	2983.7	2994.9	2976.3	2998.5	2987.5	2987.5	2994.9	2991.1	2994.9	3002.3
10°	2942.8	2927.9	2939.1	2927.9	2950.3	2935.3	2942.8	2942.8	2942.8	2953.9	2961.4
12.5°	2887.0	2872.0	2887.0	2868.4	2890.7	2879.6	2883.2	2894.4	2898.1	2905.6	2909.3
15°	2831.2	2812.6	2820.0	2808.8	2831.2	2820.0	2823.8	2838.6	2838.6	2849.8	2861.0
17.5°	2760.5	2745.6	2760.5	2745.6	2764.2	2756.8	2764.2	2775.4	2775.4	2786.6	2797.6
20°	2697.2	2682.3	2693.5	2682.3	2704.7	2693.5	2697.2	2712.1	2715.8	2727.0	2738.2
22.5°	2619.1	2607.9	2615.3	2604.3	2626.5	2619.1	2622.9	2637.7	2641.5	2648.9	2667.5
25°	2537.3	2514.9	2526.1	2518.7	2541.0	2529.8	2537.3	2552.1	2559.6	2570.7	2585.7
27.5°	2418.2	2407.0	2414.4	2414.4	2433.0	2422.0	2425.6	2440.6	2451.6	2462.8	2481.4
30°	2295.5	2276.9	2284.3	2288.0	2302.9	2295.5	2302.9	2317.8	2321.5	2336.4	2351.2
32.5°	2139.2	2131.7	2146.7	2139.2	2146.7	2146.7	2150.3	2161.5	2168.9	2176.5	2195.1
35°	1971.8	1956.9	1971.8	1964.4	1983.0	1971.8	1983.0	1994.2	1994.2	2009.0	2020.2
37.5°	1789.5	1770.9	1778.3	1778.3	1785.7	1782.1	1782.1	1800.7	1804.3	1815.5	1826.7
40°	1573.8	1566.2	1581.2	1577.4	1581.2	1581.2	1584.8	1596.0	1603.4	1607.2	1611.0
42.5°	1380.3	1383.9	1387.7	1387.7	1387.7	1387.7	1387.7	1402.5	1398.9	1410.1	1413.7
45°	1220.2	1205.4	1212.8	1209.2	1220.2	1209.2	1220.2	1231.4	1224.0	1235.2	1227.6
47.5°	1056.5	1056.5	1056.5	1052.9	1060.3	1056.5	1064.0	1067.7	1067.7	1067.7	1064.0
50°	926.4	915.2	918.9	918.9	922.7	918.9	926.4	930.1	930.1	922.7	907.8
52.5°	799.8	796.2	796.2	803.6	803.6	799.8	799.8	799.8	799.8	788.8	781.2
55°	695.7	688.3	692.0	692.0	692.0	692.0	695.7	692.0	692.0	680.8	669.7
57.5°	602.7	595.3	595.3	595.3	598.9	595.3	595.3	595.3	591.5	580.3	565.5
60°	513.4	509.7	513.4	513.4	517.1	513.4	513.4	513.4	506.0	494.8	479.9
62.5°	439.0	439.0	439.0	442.6	442.6	439.0	439.0	435.2	431.6	416.6	401.8
65°	375.8	372.0	375.8	375.8	379.4	379.4	375.8	372.0	368.4	353.4	338.6
67.5°	312.5	308.8	312.5	312.5	316.2	312.5	312.5	312.5	301.3	293.9	279.0
70°	252.9	249.3	249.3	249.3	252.9	245.5	249.3	249.3	241.9	230.7	215.7
72.5°	193.5	193.5	193.5	193.5	193.5	193.5	189.7	189.7	182.3	171.1	163.7
75°	141.4	141.4	145.1	145.1	141.4	141.4	141.4	137.7	133.9	126.5	119.1
77.5°	104.2	104.2	104.2	104.2	100.4	100.4	100.4	96.7	93.0	89.3	81.8
80°	74.4	74.4	74.4	70.7	74.4	70.7	70.7	70.7	63.2	59.5	55.8
82.5°	52.0	48.4	48.4	48.4	48.4	48.4	48.4	44.6	44.6	41.0	37.2
85°	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	26.0	22.4	22.4
87.5°	14.8	18.6	18.6	18.6	18.6	18.6	18.6	14.8	14.8	14.8	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: P684399

CATALOG NUMBER: LX6C50D010 EX6C509050 6LCSWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5
2.5°	3065.5	3065.5	3072.9	3061.9	3080.5	3069.3	3065.5	3084.1	3072.9	3069.3	3076.7
5°	3039.5	3043.3	3046.9	3039.5	3058.1	3046.9	3046.9	3065.5	3058.1	3054.3	3065.5
7.5°	3006.1	3009.7	3017.1	3013.5	3028.3	3020.9	3024.7	3043.3	3035.7	3035.7	3046.9
10°	2965.1	2972.5	2980.1	2980.1	2998.5	2991.1	2991.1	3013.5	3006.1	3009.7	3024.7
12.5°	2916.7	2927.9	2939.1	2942.8	2961.4	2950.3	2953.9	2980.1	2976.3	2980.1	2994.9
15°	2864.6	2879.6	2890.7	2890.7	2913.0	2901.8	2913.0	2939.1	2931.6	2946.5	2965.1
17.5°	2805.2	2820.0	2834.8	2838.6	2861.0	2853.4	2868.4	2894.4	2894.4	2901.8	2924.2
20°	2749.4	2768.0	2775.4	2786.6	2808.8	2805.2	2812.6	2842.4	2842.4	2853.4	2875.8
22.5°	2674.9	2693.5	2708.4	2719.6	2738.2	2738.2	2749.4	2775.4	2775.4	2782.8	2805.2
25°	2593.1	2615.3	2626.5	2637.7	2656.3	2652.5	2663.7	2686.1	2689.8	2697.2	2719.6
27.5°	2488.9	2507.5	2522.4	2529.8	2555.9	2541.0	2552.1	2578.3	2574.5	2581.9	2600.5
30°	2358.7	2377.4	2392.2	2392.2	2414.4	2414.4	2425.6	2436.8	2436.8	2444.2	2459.2
32.5°	2206.1	2228.5	2228.5	2239.7	2254.5	2239.7	2254.5	2269.4	2261.9	2273.1	2284.3
35°	2031.2	2042.4	2046.2	2046.2	2057.4	2053.6	2049.8	2061.0	2053.6	2072.2	2083.4
37.5°	1819.3	1834.1	1826.7	1834.1	1830.3	1819.3	1819.3	1837.9	1822.9	1826.7	1837.9
40°	1614.6	1614.6	1611.0	1592.4	1596.0	1584.8	1581.2	1584.8	1570.0	1566.2	1581.2
42.5°	1402.5	1398.9	1387.7	1361.7	1365.3	1346.7	1331.9	1331.9	1324.5	1320.7	1324.5
45°	1212.8	1201.6	1183.0	1153.4	1145.8	1131.0	1101.2	1093.8	1082.6	1082.6	1086.3
47.5°	1037.9	1023.1	993.3	959.9	941.3	922.7	892.9	881.7	863.1	855.6	863.1
50°	892.9	866.8	829.6	781.2	762.6	740.4	710.6	692.0	673.3	665.9	662.2
52.5°	759.0	721.8	684.5	625.1	610.1	587.9	546.9	528.3	509.7	494.8	494.8
55°	643.5	610.1	558.1	502.2	479.9	457.6	416.6	390.6	372.0	364.6	357.2
57.5°	539.5	502.2	453.8	394.4	372.0	349.8	308.8	282.7	264.1	252.9	245.5
60°	453.8	413.0	364.6	312.5	286.5	264.1	223.3	197.1	178.5	167.5	159.9
62.5°	372.0	338.6	290.2	241.9	219.5	197.1	163.7	137.7	119.1	111.6	100.4
65°	312.5	279.0	234.3	193.5	174.9	152.5	122.8	100.4	85.6	74.4	67.0
67.5°	252.9	226.9	189.7	152.5	133.9	119.1	93.0	74.4	59.5	52.0	48.4
70°	200.9	174.9	145.1	115.3	104.2	89.3	70.7	52.0	44.6	37.2	33.4
72.5°	148.9	130.2	107.9	85.6	74.4	67.0	48.4	41.0	29.8	26.0	22.4
75°	107.9	93.0	78.1	59.5	52.0	48.4	37.2	26.0	22.4	18.6	14.8
77.5°	74.4	67.0	52.0	41.0	37.2	33.4	26.0	18.6	14.8	11.2	11.2
80°	48.4	41.0	33.4	26.0	26.0	22.4	14.8	11.2	11.2	7.4	7.4
82.5°	29.8	26.0	22.4	18.6	14.8	14.8	11.2	7.4	7.4	3.8	3.8
85°	18.6	14.8	11.2	11.2	7.4	7.4	7.4	3.8	3.8	3.8	3.8
87.5°	7.4	7.4	7.4	3.8	3.8	3.8	3.8	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: P684399

CATALOG NUMBER: LX6C50D010 EX6C509050 6LCSWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5
2.5°	3076.7	3076.7	3084.1	3072.9	3080.5	3080.5	3087.9	3072.9	3080.5	3084.1	3091.6
5°	3061.9	3065.5	3072.9	3069.3	3072.9	3072.9	3080.5	3061.9	3076.7	3076.7	3087.9
7.5°	3046.9	3046.9	3054.3	3050.7	3058.1	3061.9	3069.3	3054.3	3069.3	3069.3	3080.5
10°	3028.3	3028.3	3039.5	3035.7	3046.9	3050.7	3061.9	3046.9	3061.9	3065.5	3076.7
12.5°	3002.3	3006.1	3017.1	3017.1	3028.3	3035.7	3046.9	3039.5	3058.1	3061.9	3076.7
15°	2972.5	2980.1	2994.9	2991.1	3002.3	3013.5	3028.3	3017.1	3043.3	3050.7	3065.5
17.5°	2935.3	2942.8	2953.9	2953.9	2965.1	2972.5	2991.1	2983.7	3006.1	3009.7	3028.3
20°	2879.6	2890.7	2905.6	2901.8	2913.0	2920.5	2935.3	2927.9	2950.3	2957.7	2976.3
22.5°	2812.6	2820.0	2831.2	2831.2	2842.4	2849.8	2864.6	2853.4	2875.8	2879.6	2894.4
25°	2723.3	2730.7	2738.2	2741.9	2753.0	2756.8	2764.2	2756.8	2775.4	2779.2	2797.6
27.5°	2607.9	2611.7	2622.9	2622.9	2630.3	2633.9	2645.1	2630.3	2656.3	2656.3	2667.5
30°	2470.2	2466.6	2481.4	2474.0	2481.4	2481.4	2492.6	2485.2	2503.8	2496.4	2507.5
32.5°	2288.0	2295.5	2295.5	2288.0	2302.9	2299.1	2299.1	2291.7	2302.9	2306.6	2314.0
35°	2076.0	2087.1	2087.1	2090.8	2094.6	2083.4	2087.1	2064.8	2083.4	2087.1	2090.8
37.5°	1845.3	1834.1	1841.5	1830.3	1848.9	1826.7	1826.7	1811.9	1826.7	1826.7	1830.3
40°	1581.2	1577.4	1584.8	1577.4	1573.8	1570.0	1562.6	1551.4	1566.2	1558.8	1570.0
42.5°	1331.9	1328.1	1328.1	1320.7	1317.0	1317.0	1309.6	1302.1	1298.4	1298.4	1317.0
45°	1075.1	1082.6	1075.1	1071.5	1078.9	1071.5	1075.1	1060.3	1067.7	1060.3	1067.7
47.5°	859.4	863.1	855.6	848.2	859.4	848.2	848.2	837.0	852.0	852.0	844.4
50°	665.9	662.2	654.7	662.2	658.5	658.5	658.5	647.3	654.7	643.5	651.1
52.5°	491.1	487.4	487.4	483.6	487.4	483.6	483.6	479.9	479.9	476.2	479.9
55°	357.2	353.4	346.0	346.0	346.0	349.8	346.0	342.3	342.3	338.6	342.3
57.5°	241.9	234.3	234.3	234.3	234.3	230.7	230.7	226.9	230.7	226.9	230.7
60°	156.3	156.3	148.9	148.9	148.9	148.9	148.9	145.1	148.9	148.9	148.9
62.5°	96.7	96.7	93.0	89.3	93.0	89.3	89.3	89.3	93.0	89.3	93.0
65°	63.2	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
67.5°	44.6	41.0	41.0	41.0	41.0	41.0	41.0	37.2	41.0	41.0	41.0
70°	29.8	29.8	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
72.5°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
75°	14.8	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
77.5°	11.2	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
80°	7.4	7.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	3.8	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	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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: P684399

CATALOG NUMBER: LX6C50D010 EX6C509050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5	3080.5
2.5°	3080.5	3084.1	3076.7	3080.5	3072.9	3080.5	3084.1	3091.6
5°	3072.9	3076.7	3069.3	3076.7	3069.3	3076.7	3080.5	3087.9
7.5°	3065.5	3072.9	3065.5	3072.9	3065.5	3072.9	3076.7	3084.1
10°	3065.5	3076.7	3069.3	3080.5	3069.3	3076.7	3084.1	3087.9
12.5°	3065.5	3076.7	3072.9	3080.5	3076.7	3084.1	3091.6	3099.0
15°	3058.1	3069.3	3061.9	3072.9	3069.3	3072.9	3087.9	3087.9
17.5°	3017.1	3028.3	3028.3	3035.7	3035.7	3046.9	3054.3	3061.9
20°	2965.1	2976.3	2972.5	2983.7	2983.7	2994.9	3002.3	3009.7
22.5°	2887.0	2901.8	2898.1	2909.3	2905.6	2913.0	2927.9	2924.2
25°	2786.6	2805.2	2801.4	2808.8	2805.2	2805.2	2812.6	2816.2
27.5°	2663.7	2674.9	2671.1	2678.7	2671.1	2678.7	2686.1	2689.8
30°	2503.8	2511.2	2507.5	2511.2	2507.5	2514.9	2518.7	2526.1
32.5°	2310.3	2321.5	2310.3	2317.8	2314.0	2314.0	2328.9	2321.5
35°	2079.6	2083.4	2087.1	2087.1	2079.6	2083.4	2090.8	2090.8
37.5°	1822.9	1841.5	1819.3	1830.3	1826.7	1826.7	1826.7	1837.9
40°	1555.2	1558.8	1551.4	1551.4	1551.4	1547.6	1562.6	1558.8
42.5°	1302.1	1305.8	1302.1	1291.0	1294.7	1294.7	1305.8	1291.0
45°	1056.5	1064.0	1060.3	1060.3	1052.9	1052.9	1056.5	1049.1
47.5°	837.0	844.4	833.4	837.0	829.6	837.0	833.4	840.8
50°	636.1	643.5	639.9	643.5	643.5	636.1	647.3	632.5
52.5°	476.2	479.9	476.2	472.4	468.8	468.8	476.2	472.4
55°	338.6	334.8	334.8	334.8	338.6	338.6	334.8	331.1
57.5°	226.9	226.9	223.3	223.3	226.9	219.5	223.3	219.5
60°	145.1	145.1	145.1	145.1	141.4	145.1	145.1	145.1
62.5°	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
65°	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
67.5°	37.2	41.0	41.0	41.0	37.2	37.2	37.2	37.2
70°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
72.5°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
75°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
77.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	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)