

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: P685065

Luminaire Tested: **LX6C50D010 EX6509027 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685065
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: LX6C50D010 EX6509027 6LCSWLI
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

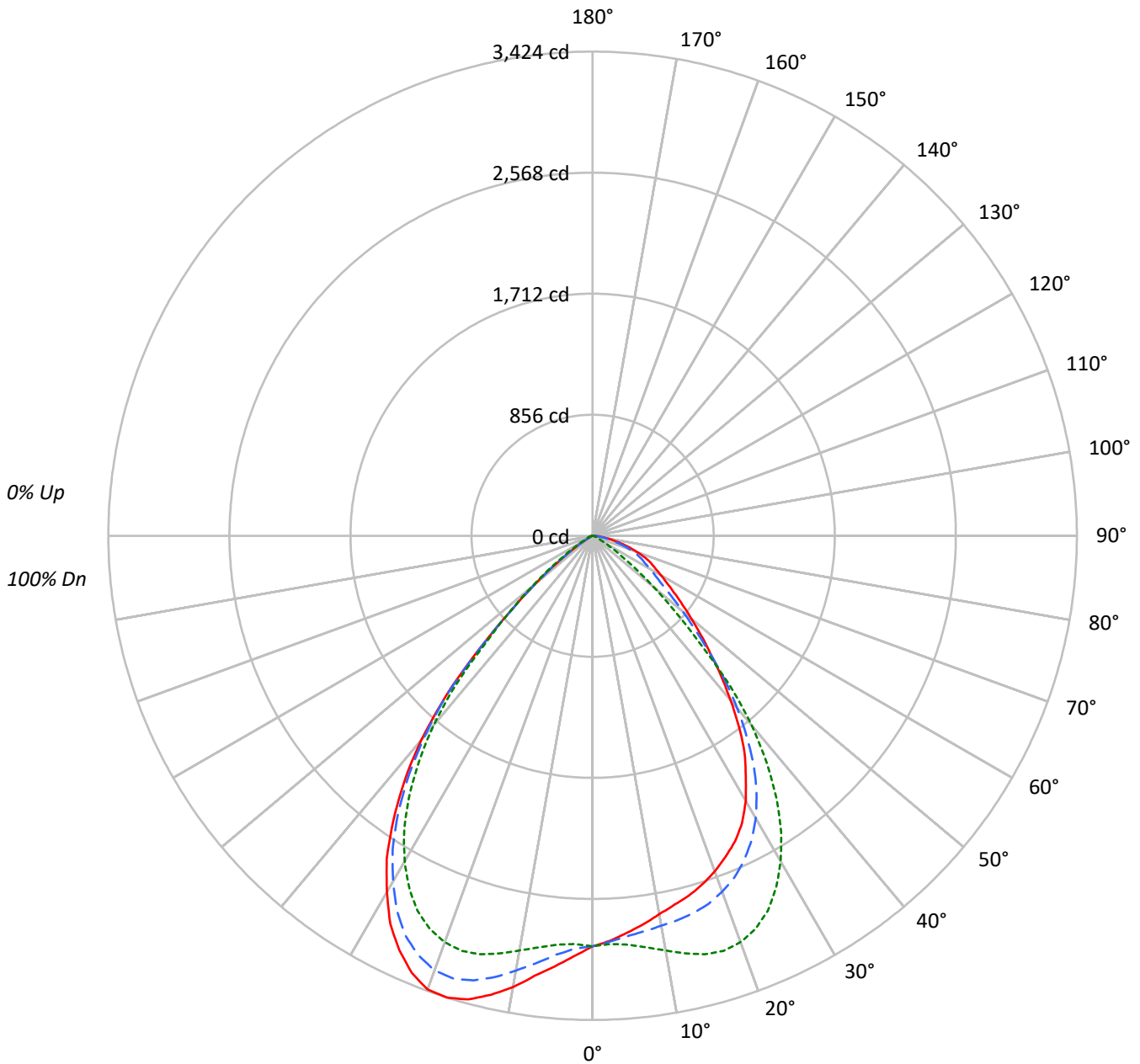
Lumens per Lamp: N/A
Luminaire Lumens: 5306.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	159132	159132	159132
5°	155007	159740	168137
10°	151233	165756	180435
15°	149467	173883	192623
20°	147322	178411	199132
25°	144196	177089	195556
30°	137021	168292	184098
35°	125360	151735	164363
40°	108432	125313	134845
45°	91444	82195	88211
50°	77635	47572	44741
55°	67372	22804	17232
60°	60850	10646	4254
65°	59034	6110	1440
70°	52926	4905	1330
75°	43506	3537	593
80°	32390	1736	0
85°	27927	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.4	5.3
10°-20°	854.5	16.1
20°-30°	1305.6	24.6
30°-40°	1365.5	25.7
40°-50°	885.8	16.7
50°-60°	351.7	6.6
60°-70°	166.8	3.1
70°-80°	79.3	1.5
80°-90°	16.2	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°	2440.5	46.0
0°-40°	3806.1	71.7
0°-60°	5043.6	95.1
0°-90°	5306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5306.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2903	2903	2903	2903	2903	
5°	2817	2842	2903	2975	3055	266
15°	2634	2761	3064	3255	3394	742
25°	2384	2534	2928	3125	3233	1092
35°	1873	1987	2267	2400	2456	1158
45°	1180	1168	1060	1124	1138	918
55°	705	599	239	186	180	639
65°	455	377	47	11	11	445
75°	205	166	17	6	3	221
85°	44	28	0	0	0	52
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°	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8
2.5°	2866.7	2872.2	2841.8	2833.4	2855.7	2863.9	2866.7	2858.4	2861.2	2872.2	2872.2
5°	2816.8	2822.3	2794.5	2786.2	2808.4	2814.0	2822.3	2819.6	2827.9	2844.5	2841.8
7.5°	2769.6	2778.0	2747.4	2736.3	2764.1	2778.0	2783.5	2783.5	2794.5	2816.8	2819.6
10°	2716.8	2728.0	2700.2	2694.6	2725.2	2739.1	2741.9	2747.4	2764.1	2794.5	2800.1
12.5°	2672.5	2683.6	2664.2	2655.8	2689.1	2703.0	2708.5	2719.6	2739.1	2778.0	2783.5
15°	2633.6	2641.9	2619.7	2614.2	2647.5	2664.2	2666.9	2683.6	2708.5	2752.9	2761.3
17.5°	2583.6	2589.2	2572.6	2567.1	2600.3	2616.9	2619.7	2639.1	2669.7	2714.1	2728.0
20°	2525.3	2531.0	2514.3	2508.7	2542.0	2561.4	2564.2	2580.9	2616.9	2664.2	2678.0
22.5°	2456.0	2467.1	2447.7	2442.1	2475.5	2492.1	2500.4	2514.3	2550.4	2597.5	2616.9
25°	2383.9	2383.9	2370.0	2367.2	2397.8	2417.2	2414.3	2433.7	2469.8	2517.1	2533.7
27.5°	2289.5	2286.7	2272.8	2270.1	2303.4	2320.1	2314.4	2333.9	2367.2	2414.3	2431.0
30°	2164.6	2170.2	2150.8	2145.1	2173.0	2200.7	2197.9	2217.3	2250.6	2295.0	2306.2
32.5°	2014.8	2020.3	2017.6	2009.2	2034.2	2048.0	2056.4	2070.2	2098.0	2145.1	2156.3
35°	1873.2	1864.9	1853.8	1853.8	1878.7	1901.0	1892.6	1909.3	1937.0	1984.2	1987.0
37.5°	1698.4	1695.6	1690.1	1684.5	1712.3	1717.8	1720.6	1731.7	1756.7	1795.5	1790.0
40°	1515.2	1518.0	1515.2	1504.1	1520.8	1543.0	1540.2	1545.8	1567.9	1595.7	1587.4
42.5°	1343.1	1343.1	1343.1	1332.1	1351.5	1362.6	1368.2	1365.4	1370.9	1395.9	1384.8
45°	1179.5	1182.2	1179.5	1176.7	1179.5	1185.0	1179.5	1176.7	1176.7	1185.0	1168.3
47.5°	1037.9	1037.9	1029.6	1021.3	1029.6	1032.3	1024.1	1015.7	1012.9	1010.2	982.4
50°	910.3	907.5	904.7	890.9	899.1	901.9	890.9	885.2	874.2	860.3	827.0
52.5°	799.3	796.5	793.7	779.8	785.4	788.1	777.1	765.9	752.0	741.0	699.4
55°	704.9	702.1	702.1	693.8	688.2	693.8	682.7	674.3	654.9	641.1	599.4
57.5°	624.4	624.4	618.8	610.5	613.3	613.3	602.3	591.1	574.4	557.8	524.6
60°	555.0	555.0	555.0	546.7	546.7	546.7	541.1	530.1	516.2	499.5	466.2
62.5°	499.5	499.5	496.7	488.5	491.2	491.2	485.6	474.6	460.7	449.6	416.3
65°	455.1	455.1	455.1	446.8	446.8	449.6	444.0	433.0	421.8	407.9	377.4
67.5°	399.6	396.9	396.9	391.2	394.1	396.9	391.2	383.0	369.1	360.8	333.0
70°	330.2	333.0	335.8	327.5	330.2	330.2	327.5	319.2	310.8	302.5	277.6
72.5°	269.2	269.2	266.4	263.7	263.7	266.4	260.9	252.5	247.0	241.5	222.0
75°	205.4	202.6	205.4	199.8	199.8	199.8	194.2	191.5	188.7	180.3	166.5
77.5°	149.9	147.1	147.1	141.5	144.4	144.4	141.5	136.0	130.4	127.7	116.5
80°	102.6	102.6	102.6	99.9	99.9	97.1	97.1	94.4	88.8	86.1	80.5
82.5°	69.4	69.4	69.4	66.7	66.7	66.7	63.8	61.0	58.3	55.5	50.0
85°	44.4	44.4	44.4	41.6	41.6	41.6	38.8	38.8	36.1	33.3	27.7
87.5°	24.9	24.9	24.9	22.2	22.2	22.2	22.2	22.2	19.4	16.7	13.9
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°	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8
2.5°	2891.6	2852.8	2877.8	2877.8	2869.5	2891.6	2905.6	2916.7	2913.9	2888.9	2886.1
5°	2869.5	2836.2	2863.9	2866.7	2858.4	2888.9	2908.3	2922.2	2925.0	2902.8	2905.6
7.5°	2852.8	2825.1	2861.2	2872.2	2869.5	2897.3	2919.5	2941.6	2952.8	2936.1	2938.9
10°	2844.5	2822.3	2861.2	2877.8	2880.6	2911.2	2944.4	2975.0	2988.9	2977.7	2986.0
12.5°	2833.4	2819.6	2863.9	2888.9	2900.0	2930.6	2972.2	3008.3	3030.5	3025.0	3041.5
15°	2822.3	2811.2	2863.9	2900.0	2913.9	2941.6	2988.9	3041.5	3066.6	3063.8	3086.0
17.5°	2794.5	2791.8	2847.3	2886.1	2905.6	2938.9	2983.2	3047.1	3072.1	3077.6	3105.4
20°	2750.2	2750.2	2811.2	2852.8	2875.1	2905.6	2961.1	3022.1	3052.7	3058.2	3088.8
22.5°	2689.1	2694.6	2752.9	2794.5	2827.9	2850.0	2908.3	2972.2	2999.9	3008.3	3041.5
25°	2608.7	2614.2	2669.7	2711.3	2747.4	2772.3	2827.9	2886.1	2919.5	2927.7	2952.8
27.5°	2503.2	2514.3	2567.1	2608.7	2639.1	2655.8	2714.1	2775.1	2800.1	2808.4	2833.4
30°	2381.1	2383.9	2436.6	2472.7	2503.2	2517.1	2567.1	2630.9	2650.3	2658.6	2694.6
32.5°	2231.2	2228.5	2278.4	2311.7	2336.6	2353.3	2406.0	2447.7	2467.1	2481.0	2500.4
35°	2050.8	2048.0	2084.1	2123.0	2142.4	2148.0	2200.7	2245.1	2256.2	2267.3	2292.3
37.5°	1848.3	1848.3	1878.7	1898.2	1920.4	1928.7	1953.7	2003.7	2023.1	2020.3	2039.7
40°	1634.6	1623.5	1645.6	1665.1	1670.7	1673.4	1698.4	1737.2	1751.1	1751.1	1764.9
42.5°	1409.8	1393.1	1395.9	1407.0	1412.5	1393.1	1409.8	1434.7	1426.4	1437.5	1440.3
45°	1171.1	1146.1	1135.0	1110.0	1115.6	1096.1	1085.1	1090.6	1087.9	1060.2	1065.7
47.5°	976.8	932.5	913.0	877.0	868.7	846.4	832.6	807.5	785.4	785.4	771.4
50°	813.2	768.7	729.8	688.2	674.3	654.9	624.4	591.1	574.4	557.8	544.0
52.5°	682.7	635.5	588.3	544.0	524.6	499.5	457.9	424.6	394.1	377.4	360.8
55°	577.2	524.6	474.6	427.3	402.4	377.4	335.8	297.0	260.9	238.6	224.8
57.5°	496.7	446.8	394.1	344.1	321.9	294.1	249.8	208.1	174.8	149.9	136.0
60°	438.5	388.5	341.4	288.6	266.4	238.6	191.5	152.6	119.3	97.1	80.5
62.5°	388.5	344.1	294.1	247.0	224.8	197.0	152.6	113.8	83.2	61.0	47.1
65°	352.4	308.0	266.4	219.2	199.8	172.1	130.4	94.4	66.7	47.1	33.3
67.5°	310.8	271.9	230.3	191.5	172.1	149.9	111.0	80.5	55.5	38.8	27.7
70°	260.9	230.3	194.2	158.2	144.4	124.9	91.6	66.7	44.4	30.6	22.2
72.5°	208.1	183.2	155.4	127.7	116.5	97.1	74.9	52.8	33.3	22.2	16.7
75°	158.2	138.7	116.5	97.1	86.1	74.9	55.5	38.8	24.9	16.7	11.1
77.5°	108.3	99.9	83.2	66.7	61.0	52.8	36.1	24.9	16.7	11.1	5.5
80°	74.9	66.7	55.5	44.4	38.8	33.3	22.2	16.7	8.3	5.5	2.8
82.5°	47.1	38.8	33.3	27.7	24.9	19.4	13.9	8.3	5.5	2.8	2.8
85°	24.9	22.2	19.4	13.9	13.9	11.1	8.3	5.5	2.8	0.0	0.0
87.5°	13.9	11.1	8.3	5.5	5.5	2.8	2.8	2.8	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°	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8
2.5°	2919.5	2919.5	2916.7	2950.0	2911.2	2950.0	2930.6	2950.0	2922.2	2919.5	2922.2
5°	2941.6	2950.0	2952.8	2983.2	2947.2	2994.4	2977.7	2994.4	2975.0	2980.5	2988.9
7.5°	2986.0	2999.9	2997.2	3036.0	2999.9	3052.7	3041.5	3066.6	3047.1	3052.7	3063.8
10°	3036.0	3052.7	3055.4	3094.3	3060.9	3124.8	3110.9	3138.6	3122.1	3130.4	3144.3
12.5°	3094.3	3113.7	3116.5	3160.9	3124.8	3191.4	3183.1	3210.8	3196.9	3205.3	3222.0
15°	3138.6	3166.4	3172.0	3216.4	3177.5	3246.9	3241.4	3277.5	3255.3	3269.1	3283.0
17.5°	3160.9	3185.9	3196.9	3238.6	3205.3	3274.7	3269.1	3299.7	3283.0	3296.9	3313.6
20°	3147.0	3177.5	3185.9	3227.5	3194.2	3263.6	3255.3	3285.8	3269.1	3280.2	3296.9
22.5°	3097.0	3127.6	3138.6	3177.5	3147.0	3210.8	3208.1	3235.9	3213.6	3227.5	3241.4
25°	3008.3	3041.5	3047.1	3083.2	3049.9	3116.5	3110.9	3141.5	3124.8	3133.1	3152.5
27.5°	2880.6	2919.5	2927.7	2958.3	2933.4	2988.9	2988.9	3013.8	2994.4	2994.4	3013.8
30°	2728.0	2766.8	2772.3	2797.4	2775.1	2825.1	2827.9	2852.8	2822.3	2839.0	2841.8
32.5°	2542.0	2567.1	2583.6	2605.9	2572.6	2636.4	2628.1	2647.5	2630.9	2630.9	2644.8
35°	2317.2	2347.8	2356.1	2383.9	2356.1	2406.0	2406.0	2417.2	2400.5	2400.5	2422.7
37.5°	2073.1	2095.3	2098.0	2125.7	2103.5	2145.1	2142.4	2150.8	2134.1	2145.1	2145.1
40°	1787.2	1803.9	1809.4	1823.3	1820.5	1851.0	1848.3	1853.8	1845.5	1848.3	1853.8
42.5°	1454.2	1476.3	1487.5	1498.6	1482.0	1523.6	1515.2	1523.6	1520.8	1523.6	1531.9
45°	1071.2	1087.9	1096.1	1099.0	1093.4	1118.4	1137.8	1121.2	1123.9	1118.4	1129.5
47.5°	774.3	777.1	771.4	788.1	774.3	785.4	790.9	793.7	777.1	774.3	785.4
50°	530.1	544.0	524.6	532.8	530.1	541.1	535.6	538.4	521.7	530.1	524.6
52.5°	352.4	349.6	344.1	346.9	341.4	341.4	341.4	346.9	335.8	330.2	324.7
55°	213.7	208.1	197.0	194.2	194.2	197.0	191.5	186.0	186.0	183.2	183.2
57.5°	124.9	116.5	111.0	108.3	102.6	99.9	97.1	97.1	91.6	91.6	91.6
60°	69.4	61.0	55.5	50.0	50.0	47.1	44.4	41.6	41.6	41.6	38.8
62.5°	36.1	30.6	24.9	22.2	22.2	19.4	16.7	16.7	16.7	16.7	13.9
65°	24.9	19.4	16.7	13.9	13.9	11.1	11.1	11.1	11.1	11.1	11.1
67.5°	19.4	16.7	13.9	11.1	11.1	11.1	8.3	8.3	8.3	8.3	8.3
70°	16.7	11.1	11.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
72.5°	11.1	11.1	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
75°	8.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0
80°	2.8	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: P685065

CATALOG NUMBER: LX6C50D010 EX6509027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8
2.5°	2947.2	2944.4	2947.2	2952.8	2941.6	2975.0	2958.3	2975.0
5°	3011.1	3013.8	3016.6	3025.0	3011.1	3052.7	3030.5	3055.4
7.5°	3094.3	3097.0	3099.8	3108.2	3099.8	3141.5	3116.5	3138.6
10°	3180.4	3185.9	3185.9	3199.8	3191.4	3230.2	3213.6	3241.4
12.5°	3260.8	3266.3	3271.9	3280.2	3274.7	3316.3	3302.4	3324.6
15°	3324.6	3335.7	3338.5	3349.5	3344.0	3388.5	3371.8	3394.0
17.5°	3355.2	3366.2	3366.2	3380.1	3374.6	3421.7	3399.5	3424.5
20°	3338.5	3346.8	3349.5	3363.5	3357.9	3405.1	3382.9	3413.4
22.5°	3285.8	3288.5	3291.3	3305.2	3302.4	3344.0	3324.6	3344.0
25°	3188.6	3196.9	3194.2	3205.3	3205.3	3238.6	3216.4	3233.0
27.5°	3049.9	3058.2	3058.2	3072.1	3060.9	3094.3	3072.1	3097.0
30°	2880.6	2888.9	2883.4	2894.5	2883.4	2916.7	2900.0	2908.3
32.5°	2678.0	2678.0	2680.7	2683.6	2678.0	2708.5	2691.9	2708.5
35°	2436.6	2442.1	2444.9	2447.7	2442.1	2464.3	2444.9	2456.0
37.5°	2164.6	2178.5	2175.7	2178.5	2170.2	2197.9	2181.2	2186.9
40°	1873.2	1873.2	1870.4	1876.0	1867.7	1889.9	1878.7	1884.3
42.5°	1534.6	1543.0	1531.9	1545.8	1523.6	1554.0	1543.0	1534.6
45°	1151.7	1140.6	1137.8	1140.6	1132.2	1135.0	1143.4	1137.8
47.5°	785.4	785.4	779.8	771.4	782.6	785.4	774.3	774.3
50°	527.3	527.3	521.7	518.9	524.6	521.7	516.2	524.6
52.5°	335.8	324.7	324.7	330.2	324.7	319.2	327.5	321.9
55°	183.2	177.6	177.6	183.2	177.6	177.6	174.8	180.3
57.5°	88.8	91.6	88.8	88.8	88.8	88.8	86.1	88.8
60°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
62.5°	16.7	16.7	13.9	13.9	13.9	13.9	13.9	13.9
65°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1
67.5°	8.3	8.3	8.3	8.3	8.3	11.1	8.3	8.3
70°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
72.5°	8.3	8.3	11.1	11.1	11.1	11.1	11.1	11.1
75°	5.5	5.5	5.5	2.8	2.8	2.8	2.8	2.8
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)