

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: P685035

Luminaire Tested: **LX6C45D010 EX6459050 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P685035
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: LX6C45D010 EX6459050 6LCSWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

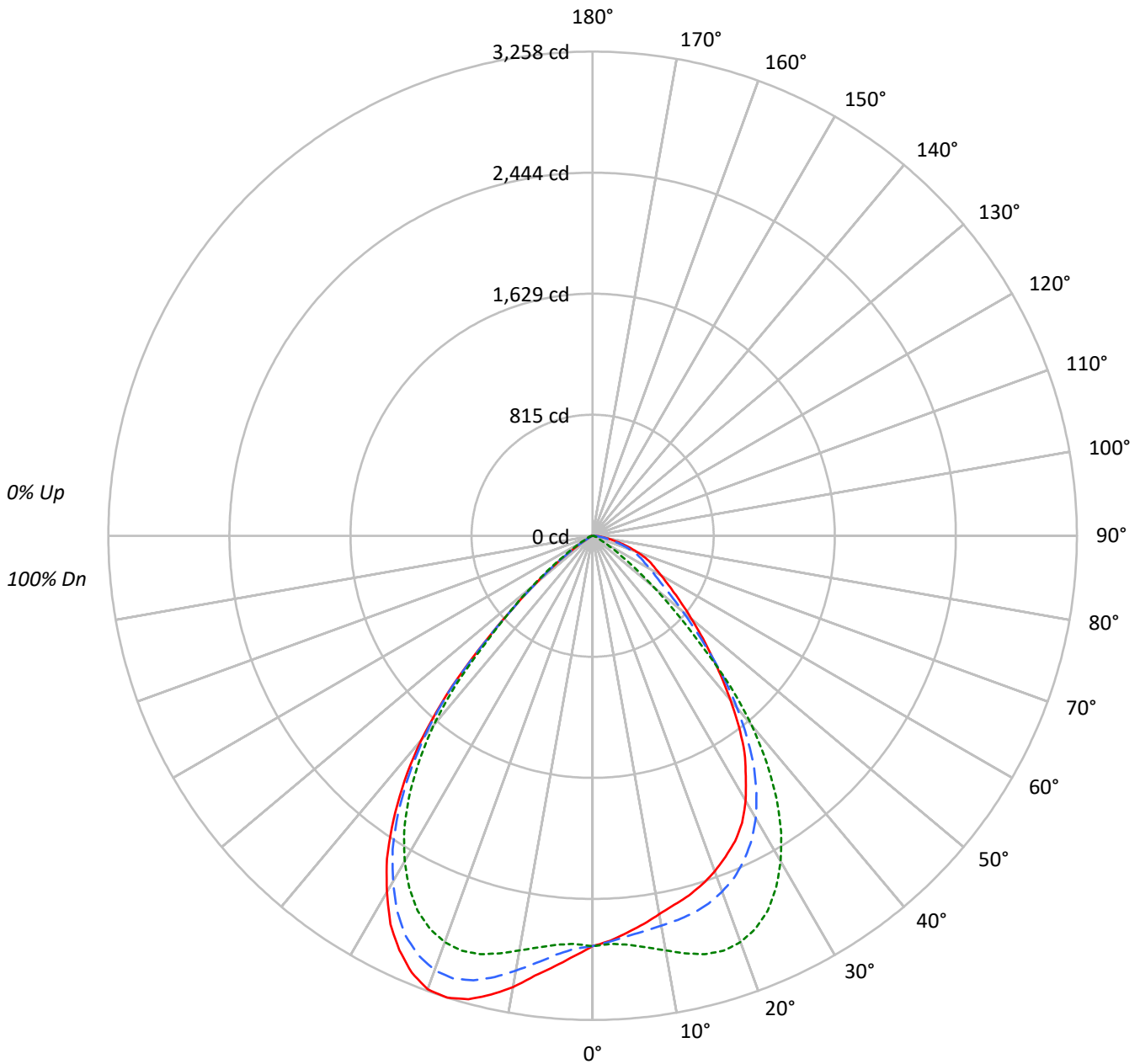
Lumens per Lamp: N/A
Luminaire Lumens: 5048.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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					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°	151397	151397	151397
5°	147468	151975	159960
10°	143880	157696	171662
15°	142197	165427	183259
20°	140158	169736	189448
25°	137185	168482	186047
30°	130362	160113	175147
35°	119264	144353	156366
40°	103165	119216	128283
45°	86994	78194	83916
50°	73857	45261	42557
55°	64093	21696	16401
60°	57890	10131	4046
65°	56167	5824	1362
70°	50361	4664	1266
75°	41387	3368	572
80°	30812	1673	0
85°	26606	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	5.3
10°-20°	813.0	16.1
20°-30°	1242.1	24.6
30°-40°	1299.1	25.7
40°-50°	842.8	16.7
50°-60°	334.6	6.6
60°-70°	158.7	3.1
70°-80°	75.5	1.5
80°-90°	15.4	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°	2321.8	46.0
0°-40°	3621.0	71.7
0°-60°	4798.4	95.1
0°-90°	5048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5048.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2762	2762	2762	2762	2762	
5°	2680	2704	2762	2830	2907	253
15°	2506	2627	2915	3097	3229	706
25°	2268	2410	2785	2973	3076	1039
35°	1782	1890	2157	2284	2336	1102
45°	1122	1112	1009	1069	1082	873
55°	671	570	227	177	172	608
65°	433	359	45	10	10	423
75°	195	158	16	5	3	211
85°	42	26	0	0	0	49
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°	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7
2.5°	2727.3	2732.6	2703.6	2695.7	2716.8	2724.6	2727.3	2719.4	2722.1	2732.6	2732.6
5°	2679.8	2685.1	2658.7	2650.7	2671.9	2677.2	2685.1	2682.5	2690.4	2706.2	2703.6
7.5°	2634.9	2642.9	2613.8	2603.3	2629.7	2642.9	2648.1	2648.1	2658.7	2679.8	2682.5
10°	2584.7	2595.3	2569.0	2563.6	2592.7	2605.9	2608.5	2613.8	2629.7	2658.7	2663.9
12.5°	2542.6	2553.1	2534.6	2526.7	2558.3	2571.5	2576.8	2587.4	2605.9	2642.9	2648.1
15°	2505.5	2513.5	2492.3	2487.1	2518.7	2534.6	2537.2	2553.1	2576.8	2619.1	2627.0
17.5°	2458.0	2463.3	2447.5	2442.2	2473.9	2489.7	2492.3	2510.8	2539.9	2582.1	2595.3
20°	2402.5	2407.9	2392.0	2386.8	2418.4	2436.9	2439.6	2455.4	2489.7	2534.6	2547.8
22.5°	2336.5	2347.2	2328.7	2323.3	2355.1	2370.9	2378.8	2392.0	2426.4	2471.2	2489.7
25°	2268.0	2268.0	2254.8	2252.1	2281.2	2299.6	2297.0	2315.4	2349.7	2394.7	2410.5
27.5°	2178.2	2175.5	2162.3	2159.7	2191.4	2207.2	2201.9	2220.4	2252.1	2297.0	2312.8
30°	2059.4	2064.6	2046.2	2040.8	2067.3	2093.7	2091.0	2109.5	2141.2	2183.4	2194.0
32.5°	1916.8	1922.0	1919.5	1911.5	1935.2	1948.4	1956.4	1969.6	1996.0	2040.8	2051.4
35°	1782.1	1774.2	1763.7	1763.7	1787.4	1808.5	1800.6	1816.5	1842.9	1887.7	1890.4
37.5°	1615.8	1613.1	1607.9	1602.6	1629.0	1634.3	1637.0	1647.5	1671.3	1708.2	1702.9
40°	1441.6	1444.1	1441.6	1430.9	1446.8	1468.0	1465.3	1470.6	1491.7	1518.1	1510.2
42.5°	1277.8	1277.8	1277.8	1267.3	1285.8	1296.4	1301.6	1299.0	1304.2	1328.0	1317.4
45°	1122.1	1124.7	1122.1	1119.5	1122.1	1127.4	1122.1	1119.5	1119.5	1127.4	1111.5
47.5°	987.5	987.5	979.5	971.6	979.5	982.1	974.3	966.3	963.7	961.1	934.7
50°	866.0	863.3	860.7	847.6	855.4	858.1	847.6	842.2	831.7	818.5	786.8
52.5°	760.4	757.7	755.1	741.9	747.2	749.8	739.3	728.7	715.5	705.0	665.4
55°	670.6	667.9	667.9	660.1	654.7	660.1	649.5	641.5	623.1	609.9	570.3
57.5°	594.0	594.0	588.8	580.8	583.5	583.5	573.0	562.4	546.5	530.7	499.0
60°	528.0	528.0	528.0	520.1	520.1	520.1	514.8	504.3	491.1	475.2	443.6
62.5°	475.2	475.2	472.5	464.7	467.3	467.3	462.0	451.5	438.3	427.7	396.0
65°	433.0	433.0	433.0	425.1	425.1	427.7	422.4	411.9	401.3	388.1	359.0
67.5°	380.2	377.6	377.6	372.2	374.9	377.6	372.2	364.4	351.2	343.2	316.9
70°	314.2	316.9	319.4	311.6	314.2	314.2	311.6	303.7	295.7	287.8	264.1
72.5°	256.1	256.1	253.4	250.9	250.9	253.4	248.2	240.2	235.0	229.7	211.2
75°	195.4	192.7	195.4	190.1	190.1	190.1	184.8	182.2	179.5	171.6	158.4
77.5°	142.6	139.9	139.9	134.7	137.3	137.3	134.7	129.4	124.0	121.5	110.8
80°	97.6	97.6	97.6	95.1	95.1	92.4	92.4	89.8	84.4	81.9	76.6
82.5°	66.0	66.0	66.0	63.4	63.4	63.4	60.7	58.1	55.5	52.8	47.5
85°	42.3	42.3	42.3	39.6	39.6	39.6	36.9	36.9	34.3	31.7	26.4
87.5°	23.7	23.7	23.7	21.1	21.1	21.1	21.1	21.1	18.5	15.9	13.2
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°	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7
2.5°	2751.0	2714.1	2737.8	2737.8	2730.0	2751.0	2764.3	2774.9	2772.2	2748.5	2745.8
5°	2730.0	2698.3	2724.6	2727.3	2719.4	2748.5	2766.9	2780.1	2782.8	2761.7	2764.3
7.5°	2714.1	2687.7	2722.1	2732.6	2730.0	2756.4	2777.5	2798.6	2809.2	2793.3	2796.0
10°	2706.2	2685.1	2722.1	2737.8	2740.5	2769.6	2801.3	2830.3	2843.5	2832.9	2840.9
12.5°	2695.7	2682.5	2724.6	2748.5	2759.0	2788.1	2827.7	2862.0	2883.1	2877.9	2893.6
15°	2685.1	2674.5	2724.6	2759.0	2772.2	2798.6	2843.5	2893.6	2917.5	2914.8	2935.9
17.5°	2658.7	2656.1	2708.9	2745.8	2764.3	2796.0	2838.2	2898.9	2922.7	2928.0	2954.4
20°	2616.5	2616.5	2674.5	2714.1	2735.3	2764.3	2817.1	2875.2	2904.3	2909.5	2938.6
22.5°	2558.3	2563.6	2619.1	2658.7	2690.4	2711.5	2766.9	2827.7	2854.0	2862.0	2893.6
25°	2481.8	2487.1	2539.9	2579.5	2613.8	2637.5	2690.4	2745.8	2777.5	2785.4	2809.2
27.5°	2381.5	2392.0	2442.2	2481.8	2510.8	2526.7	2582.1	2640.2	2663.9	2671.9	2695.7
30°	2265.3	2268.0	2318.1	2352.4	2381.5	2394.7	2442.2	2503.0	2521.4	2529.4	2563.6
32.5°	2122.7	2120.1	2167.7	2199.3	2223.0	2238.9	2289.0	2328.7	2347.2	2360.4	2378.8
35°	1951.1	1948.4	1982.8	2019.8	2038.3	2043.5	2093.7	2135.9	2146.5	2157.0	2180.8
37.5°	1758.4	1758.4	1787.4	1805.9	1827.0	1834.9	1858.7	1906.3	1924.7	1922.0	1940.5
40°	1555.1	1544.6	1565.6	1584.2	1589.4	1592.0	1615.8	1652.7	1665.9	1665.9	1679.1
42.5°	1341.2	1325.4	1328.0	1338.6	1343.8	1325.4	1341.2	1365.0	1357.0	1367.6	1370.3
45°	1114.2	1090.4	1079.9	1056.0	1061.4	1042.8	1032.3	1037.6	1035.0	1008.6	1013.9
47.5°	929.3	887.1	868.6	834.4	826.4	805.3	792.1	768.3	747.2	747.2	733.9
50°	773.6	731.3	694.3	654.7	641.5	623.1	594.0	562.4	546.5	530.7	517.5
52.5°	649.5	604.6	559.7	517.5	499.0	475.2	435.6	404.0	374.9	359.0	343.2
55°	549.2	499.0	451.5	406.6	382.8	359.0	319.4	282.5	248.2	227.0	213.8
57.5°	472.5	425.1	374.9	327.4	306.2	279.8	237.7	198.0	166.3	142.6	129.4
60°	417.2	369.6	324.8	274.6	253.4	227.0	182.2	145.2	113.5	92.4	76.6
62.5°	369.6	327.4	279.8	235.0	213.8	187.5	145.2	108.3	79.2	58.1	44.9
65°	335.3	293.0	253.4	208.6	190.1	163.7	124.0	89.8	63.4	44.9	31.7
67.5°	295.7	258.7	219.1	182.2	163.7	142.6	105.6	76.6	52.8	36.9	26.4
70°	248.2	219.1	184.8	150.5	137.3	118.8	87.1	63.4	42.3	29.1	21.1
72.5°	198.0	174.3	147.9	121.5	110.8	92.4	71.2	50.2	31.7	21.1	15.9
75°	150.5	132.0	110.8	92.4	81.9	71.2	52.8	36.9	23.7	15.9	10.5
77.5°	103.0	95.1	79.2	63.4	58.1	50.2	34.3	23.7	15.9	10.5	5.3
80°	71.2	63.4	52.8	42.3	36.9	31.7	21.1	15.9	7.9	5.3	2.7
82.5°	44.9	36.9	31.7	26.4	23.7	18.5	13.2	7.9	5.3	2.7	2.7
85°	23.7	21.1	18.5	13.2	13.2	10.5	7.9	5.3	2.7	0.0	0.0
87.5°	13.2	10.5	7.9	5.3	5.3	2.7	2.7	2.7	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°	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7
2.5°	2777.5	2777.5	2774.9	2806.5	2769.6	2806.5	2788.1	2806.5	2780.1	2777.5	2780.1
5°	2798.6	2806.5	2809.2	2838.2	2803.9	2848.8	2832.9	2848.8	2830.3	2835.6	2843.5
7.5°	2840.9	2854.0	2851.5	2888.4	2854.0	2904.3	2893.6	2917.5	2898.9	2904.3	2914.8
10°	2888.4	2904.3	2906.8	2943.9	2912.1	2972.8	2959.6	2986.0	2970.3	2978.2	2991.4
12.5°	2943.9	2962.3	2965.0	3007.2	2972.8	3036.2	3028.3	3054.7	3041.5	3049.4	3065.3
15°	2986.0	3012.4	3017.8	3060.0	3023.0	3089.0	3083.8	3118.1	3097.0	3110.2	3123.4
17.5°	3007.2	3031.0	3041.5	3081.1	3049.4	3115.4	3110.2	3139.2	3123.4	3136.6	3152.4
20°	2994.0	3023.0	3031.0	3070.6	3038.9	3104.9	3097.0	3126.0	3110.2	3120.7	3136.6
22.5°	2946.4	2975.5	2986.0	3023.0	2994.0	3054.7	3052.1	3078.5	3057.4	3070.6	3083.8
25°	2862.0	2893.6	2898.9	2933.2	2901.6	2965.0	2959.6	2988.7	2972.8	2980.8	2999.2
27.5°	2740.5	2777.5	2785.4	2814.5	2790.7	2843.5	2843.5	2867.2	2848.8	2848.8	2867.2
30°	2595.3	2632.3	2637.5	2661.3	2640.2	2687.7	2690.4	2714.1	2685.1	2700.9	2703.6
32.5°	2418.4	2442.2	2458.0	2479.1	2447.5	2508.2	2500.3	2518.7	2503.0	2503.0	2516.2
35°	2204.6	2233.6	2241.6	2268.0	2241.6	2289.0	2289.0	2299.6	2283.8	2283.8	2304.9
37.5°	1972.3	1993.4	1996.0	2022.4	2001.2	2040.8	2038.3	2046.2	2030.3	2040.8	2040.8
40°	1700.3	1716.1	1721.4	1734.6	1732.0	1761.0	1758.4	1763.7	1755.7	1758.4	1763.7
42.5°	1383.5	1404.5	1415.2	1425.7	1409.9	1449.5	1441.6	1449.5	1446.8	1449.5	1457.4
45°	1019.1	1035.0	1042.8	1045.5	1040.3	1064.0	1082.4	1066.7	1069.2	1064.0	1074.6
47.5°	736.6	739.3	733.9	749.8	736.6	747.2	752.5	755.1	739.3	736.6	747.2
50°	504.3	517.5	499.0	506.9	504.3	514.8	509.6	512.2	496.4	504.3	499.0
52.5°	335.3	332.6	327.4	330.0	324.8	324.8	324.8	330.0	319.4	314.2	308.9
55°	203.3	198.0	187.5	184.8	184.8	187.5	182.2	176.9	176.9	174.3	174.3
57.5°	118.8	110.8	105.6	103.0	97.6	95.1	92.4	92.4	87.1	87.1	87.1
60°	66.0	58.1	52.8	47.5	47.5	44.9	42.3	39.6	39.6	39.6	36.9
62.5°	34.3	29.1	23.7	21.1	21.1	18.5	15.9	15.9	15.9	15.9	13.2
65°	23.7	18.5	15.9	13.2	13.2	10.5	10.5	10.5	10.5	10.5	10.5
67.5°	18.5	15.9	13.2	10.5	10.5	10.5	7.9	7.9	7.9	7.9	7.9
70°	15.9	10.5	10.5	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
72.5°	10.5	10.5	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
75°	7.9	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
80°	2.7	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: P685035

CATALOG NUMBER: LX6C45D010 EX6459050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7	2761.7
2.5°	2803.9	2801.3	2803.9	2809.2	2798.6	2830.3	2814.5	2830.3
5°	2864.7	2867.2	2869.9	2877.9	2864.7	2904.3	2883.1	2906.8
7.5°	2943.9	2946.4	2949.1	2957.1	2949.1	2988.7	2965.0	2986.0
10°	3025.7	3031.0	3031.0	3044.2	3036.2	3073.2	3057.4	3083.8
12.5°	3102.2	3107.5	3112.8	3120.7	3115.4	3155.0	3141.8	3163.0
15°	3163.0	3173.5	3176.2	3186.7	3181.4	3223.7	3207.8	3229.0
17.5°	3192.0	3202.6	3202.6	3215.8	3210.5	3255.3	3234.2	3258.0
20°	3176.2	3184.1	3186.7	3200.0	3194.6	3239.6	3218.4	3247.4
22.5°	3126.0	3128.6	3131.3	3144.5	3141.8	3181.4	3163.0	3181.4
25°	3033.6	3041.5	3038.9	3049.4	3049.4	3081.1	3060.0	3075.8
27.5°	2901.6	2909.5	2909.5	2922.7	2912.1	2943.9	2922.7	2946.4
30°	2740.5	2748.5	2743.2	2753.7	2743.2	2774.9	2759.0	2766.9
32.5°	2547.8	2547.8	2550.4	2553.1	2547.8	2576.8	2561.0	2576.8
35°	2318.1	2323.3	2326.0	2328.7	2323.3	2344.5	2326.0	2336.5
37.5°	2059.4	2072.6	2069.9	2072.6	2064.6	2091.0	2075.2	2080.5
40°	1782.1	1782.1	1779.5	1784.8	1776.9	1798.0	1787.4	1792.6
42.5°	1460.0	1468.0	1457.4	1470.6	1449.5	1478.5	1468.0	1460.0
45°	1095.7	1085.1	1082.4	1085.1	1077.2	1079.9	1087.8	1082.4
47.5°	747.2	747.2	741.9	733.9	744.5	747.2	736.6	736.6
50°	501.6	501.6	496.4	493.7	499.0	496.4	491.1	499.0
52.5°	319.4	308.9	308.9	314.2	308.9	303.7	311.6	306.2
55°	174.3	169.0	169.0	174.3	169.0	169.0	166.3	171.6
57.5°	84.4	87.1	84.4	84.4	84.4	84.4	81.9	84.4
60°	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
62.5°	15.9	15.9	13.2	13.2	13.2	13.2	13.2	13.2
65°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
67.5°	7.9	7.9	7.9	7.9	7.9	10.5	7.9	7.9
70°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
72.5°	7.9	7.9	10.5	10.5	10.5	10.5	10.5	10.5
75°	5.3	5.3	5.3	2.7	2.7	2.7	2.7	2.7
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)