

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: P859304

Luminaire Tested: **LX4C60D010 EX4C609030 4LBLWW\***

Issue Date: 2/9/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P859304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C60D010 EX4C609030 4LBLWW\*  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

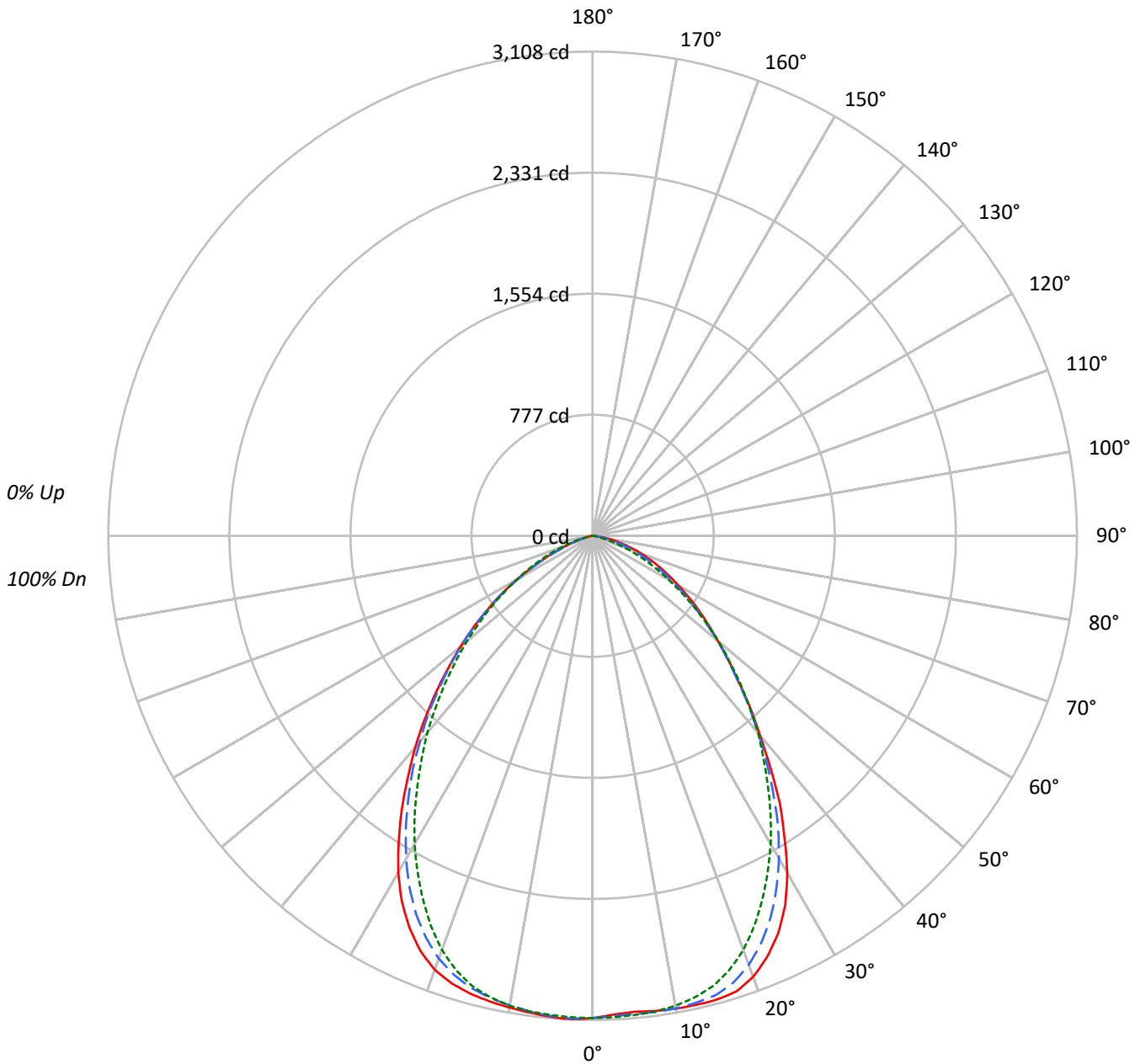
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5935.5 lumens  
Efficiency: N/A  
Efficacy: 60.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 97.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54			54
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39			39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36			36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33			33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	380342	380342	380342
5°	378219	380784	382227
10°	384475	382155	383602
15°	391991	380455	386815
20°	393966	369792	387429
25°	381842	349214	376650
30°	354420	324063	353768
35°	313841	293954	319780
40°	267552	264745	283573
45°	229859	232483	247025
50°	200644	201084	211749
55°	177284	169830	175570
60°	155385	138530	137964
65°	137557	107470	95668
70°	117350	73923	56825
75°	94886	39730	25917
80°	65018	9834	6650
85°	19593	3242	3242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.2	5.0
10°-20°	851.8	14.4
20°-30°	1230.7	20.7
30°-40°	1272.3	21.4
40°-50°	1051.3	17.7
50°-60°	725.5	12.2
60°-70°	379.8	6.4
70°-80°	119.6	2.0
80°-90°	10.2	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°	2376.7	40.0
0°-40°	3649.1	61.5
0°-60°	5425.9	91.4
0°-90°	5935.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5935.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3096	3096	3096	3096	3096	
5°	3067	3082	3088	3094	3099	294
15°	3082	3053	2991	3005	3041	870
25°	2817	2703	2576	2680	2779	1286
35°	2093	2023	1960	2062	2132	1299
45°	1323	1317	1338	1400	1422	1031
55°	828	802	793	815	820	744
65°	473	429	370	307	329	469
75°	200	157	84	57	55	214
85°	14	7	2	2	2	29
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°	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9
2.5°	3076.2	3077.3	3077.3	3079.7	3079.7	3079.7	3080.9	3080.9	3082.0	3083.2	3084.4
5°	3066.9	3066.9	3069.2	3070.3	3072.7	3073.9	3076.2	3077.3	3079.7	3080.9	3082.0
7.5°	3076.2	3076.2	3077.3	3078.6	3078.6	3079.7	3079.7	3080.9	3082.0	3083.2	3083.2
10°	3082.0	3082.0	3082.0	3082.0	3083.2	3083.2	3083.2	3082.0	3082.0	3082.0	3080.9
12.5°	3084.4	3084.4	3083.2	3082.0	3083.2	3082.0	3082.0	3078.6	3076.2	3073.9	3070.3
15°	3082.0	3082.0	3080.9	3079.7	3078.6	3076.2	3075.0	3069.2	3064.6	3057.6	3052.9
17.5°	3066.9	3064.6	3062.3	3059.9	3055.3	3051.7	3049.4	3039.0	3030.7	3019.2	3006.4
20°	3013.4	3011.0	3007.7	3001.8	2996.0	2991.3	2984.4	2969.2	2961.1	2943.7	2930.9
22.5°	2926.2	2923.8	2925.1	2914.6	2902.9	2896.1	2891.4	2878.5	2864.5	2842.5	2828.5
25°	2816.9	2809.9	2809.9	2793.6	2787.8	2783.2	2777.4	2762.3	2741.4	2721.6	2703.0
27.5°	2675.0	2665.8	2661.1	2658.8	2644.8	2634.3	2626.3	2614.6	2597.1	2579.7	2554.2
30°	2498.4	2497.2	2491.4	2481.0	2470.5	2465.8	2456.5	2436.8	2420.5	2407.6	2391.3
32.5°	2290.3	2289.1	2289.1	2289.1	2282.1	2281.0	2267.0	2256.6	2243.7	2224.0	2213.5
35°	2092.6	2091.5	2092.6	2075.2	2070.5	2067.0	2065.9	2058.9	2041.5	2032.2	2022.9
37.5°	1869.4	1873.0	1870.6	1866.0	1871.7	1861.3	1869.4	1854.4	1847.3	1845.0	1834.5
40°	1668.3	1677.6	1668.3	1669.5	1675.2	1664.9	1664.9	1662.5	1657.8	1655.5	1653.2
42.5°	1496.3	1484.6	1491.6	1485.7	1491.6	1488.1	1482.3	1485.7	1486.9	1482.3	1481.0
45°	1323.0	1325.3	1327.6	1324.2	1324.2	1320.7	1330.1	1324.2	1324.2	1325.3	1317.2
47.5°	1182.3	1178.9	1181.2	1178.9	1180.0	1177.7	1180.0	1181.2	1178.9	1178.9	1171.9
50°	1049.8	1047.4	1055.7	1048.6	1048.6	1047.4	1048.6	1046.4	1042.8	1042.8	1045.2
52.5°	934.6	930.1	928.9	934.6	926.6	926.6	927.8	925.4	920.8	918.4	912.6
55°	827.7	826.6	827.7	823.0	820.7	820.7	815.0	812.6	811.5	805.6	802.2
57.5°	727.7	724.3	725.5	724.3	719.7	718.4	713.8	713.8	709.1	704.5	698.7
60°	632.4	632.4	635.9	631.4	627.8	625.5	623.1	620.8	612.8	604.5	597.5
62.5°	547.6	548.8	547.6	544.1	541.8	539.4	537.2	530.2	523.1	518.6	510.3
65°	473.2	472.0	468.5	466.2	460.4	460.4	455.7	452.2	444.0	437.2	429.0
67.5°	396.4	394.1	394.1	394.1	387.0	386.0	383.7	376.7	369.7	360.4	353.4
70°	326.7	329.1	325.5	322.0	318.5	317.4	313.8	307.0	298.8	289.5	283.7
72.5°	260.4	262.7	259.2	258.1	251.1	248.8	247.7	241.8	232.5	226.7	217.4
75°	199.9	201.1	198.8	196.5	191.8	190.6	184.8	180.1	174.4	165.1	157.0
77.5°	144.1	141.8	141.8	137.2	132.5	132.5	131.3	124.3	116.3	109.2	102.3
80°	91.9	90.6	87.2	84.9	81.4	80.3	79.0	73.2	67.3	62.9	58.2
82.5°	46.6	45.4	44.2	43.0	40.7	38.3	39.6	34.9	32.6	28.0	24.4
85°	13.9	15.1	15.1	13.9	12.7	12.7	12.7	11.6	9.4	8.1	7.0
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



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9
2.5°	3085.4	3086.6	3087.7	3088.9	3088.9	3090.1	3091.3	3092.4	3093.6	3093.6	3094.7
5°	3083.2	3085.4	3085.4	3086.6	3086.6	3086.6	3087.7	3087.7	3087.7	3087.7	3088.9
7.5°	3084.4	3084.4	3084.4	3083.2	3083.2	3082.0	3082.0	3082.0	3079.7	3079.7	3079.7
10°	3078.6	3077.3	3076.2	3073.9	3072.7	3071.5	3069.2	3066.9	3064.6	3063.4	3061.1
12.5°	3066.9	3062.3	3057.6	3052.9	3050.6	3049.4	3044.8	3041.3	3037.8	3034.3	3032.0
15°	3043.7	3036.6	3028.4	3019.2	3016.8	3014.5	3006.4	2999.4	2994.7	2991.3	2985.5
17.5°	2997.1	2983.1	2973.8	2959.8	2954.1	2951.8	2939.0	2932.1	2923.8	2921.5	2916.8
20°	2914.6	2901.8	2884.4	2871.6	2864.5	2857.6	2847.1	2837.9	2828.5	2828.5	2822.7
22.5°	2811.1	2794.9	2772.7	2756.5	2755.3	2741.4	2732.0	2721.6	2718.1	2711.0	2711.0
25°	2680.9	2667.0	2642.5	2628.6	2621.6	2618.1	2603.0	2589.1	2582.1	2576.2	2580.8
27.5°	2536.8	2515.8	2497.2	2479.8	2473.9	2466.9	2453.0	2447.2	2434.5	2433.2	2432.1
30°	2371.6	2350.6	2332.0	2324.0	2312.3	2306.6	2296.0	2289.1	2284.4	2284.4	2282.1
32.5°	2198.4	2179.8	2170.5	2153.1	2147.2	2139.2	2132.2	2125.1	2127.5	2125.1	2126.4
35°	2011.2	2006.6	1989.2	1978.7	1978.7	1977.5	1965.9	1961.3	1958.9	1960.0	1965.9
37.5°	1833.4	1819.5	1807.8	1800.9	1806.6	1799.7	1798.5	1798.5	1805.4	1800.9	1810.1
40°	1643.9	1642.7	1638.0	1640.3	1641.6	1633.3	1635.7	1636.9	1641.6	1650.8	1651.9
42.5°	1478.8	1477.7	1477.7	1477.7	1475.3	1470.7	1475.3	1483.4	1482.3	1489.3	1495.1
45°	1319.5	1317.2	1321.9	1318.3	1325.3	1327.6	1324.2	1326.5	1333.4	1338.1	1347.5
47.5°	1174.3	1174.3	1175.4	1177.7	1170.7	1176.6	1178.9	1183.5	1187.0	1189.3	1194.0
50°	1039.4	1039.4	1037.0	1037.0	1037.0	1040.5	1035.8	1041.7	1042.8	1052.1	1058.0
52.5°	915.0	909.2	912.6	910.3	905.6	903.3	905.6	906.8	913.9	916.1	923.1
55°	796.4	796.4	787.0	784.7	788.2	787.0	785.9	785.9	789.3	792.9	798.7
57.5°	691.7	684.8	677.8	676.6	673.1	674.3	674.3	673.1	670.7	672.0	673.1
60°	592.9	588.2	577.8	577.8	576.5	575.4	569.6	568.5	562.7	563.8	559.2
62.5°	502.2	500.0	485.9	481.2	481.2	477.9	472.0	470.9	462.6	462.6	458.0
65°	420.9	413.9	405.7	397.6	397.6	392.9	389.4	379.0	373.1	369.7	362.7
67.5°	346.5	336.0	327.8	320.8	316.1	315.0	307.0	300.0	290.7	284.8	274.3
70°	274.3	266.2	258.1	251.1	246.5	241.8	233.8	223.2	216.3	205.8	198.8
72.5°	206.9	199.9	193.0	183.6	177.9	174.4	166.2	157.0	145.3	138.3	129.0
75°	148.8	140.7	131.3	123.2	119.8	116.3	106.9	100.0	91.9	83.7	74.4
77.5°	96.5	87.2	80.3	70.9	69.7	67.3	58.2	51.2	45.4	40.7	34.9
80°	51.2	46.6	40.7	34.9	32.6	29.0	24.4	21.0	17.4	13.9	11.6
82.5°	22.1	18.6	15.1	12.7	11.6	10.4	8.1	7.0	5.9	5.9	4.7
85°	5.9	4.7	4.7	3.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	0.0	1.2	1.2	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°	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9
2.5°	3095.9	3097.1	3098.3	3098.3	3099.4	3100.6	3100.6	3101.7	3103.0	3104.0	3104.0
5°	3090.1	3090.1	3090.1	3091.3	3091.3	3091.3	3091.3	3093.6	3093.6	3094.7	3095.9
7.5°	3078.6	3078.6	3078.6	3078.6	3077.3	3078.6	3077.3	3077.3	3079.7	3080.9	3082.0
10°	3059.9	3058.7	3058.7	3057.6	3057.6	3057.6	3058.7	3059.9	3061.1	3062.3	3065.7
12.5°	3030.7	3029.6	3029.6	3028.4	3028.4	3029.6	3030.7	3033.1	3037.8	3040.1	3044.8
15°	2984.4	2983.1	2984.4	2985.5	2987.8	2991.3	2994.7	2998.3	3005.3	3011.0	3016.8
17.5°	2916.8	2918.0	2919.2	2921.5	2925.1	2929.7	2939.0	2948.4	2956.4	2965.7	2975.0
20°	2823.8	2828.5	2829.6	2837.9	2840.1	2850.6	2861.1	2875.1	2887.8	2899.4	2912.2
22.5°	2712.3	2715.7	2720.4	2729.7	2735.6	2749.5	2762.3	2778.6	2792.5	2807.6	2826.2
25°	2585.5	2586.7	2600.7	2600.7	2614.6	2626.3	2641.4	2658.8	2679.7	2699.5	2712.3
27.5°	2441.5	2447.2	2457.7	2462.2	2472.8	2491.4	2504.1	2525.1	2546.1	2563.4	2577.4
30°	2290.3	2294.9	2312.3	2314.6	2322.9	2339.1	2356.5	2376.3	2392.6	2412.3	2425.1
32.5°	2131.0	2143.7	2154.2	2162.4	2164.7	2189.1	2198.4	2212.4	2231.0	2250.8	2263.5
35°	1976.3	1982.2	1997.3	2002.0	2009.0	2022.9	2041.5	2053.1	2062.5	2075.2	2090.2
37.5°	1812.4	1829.8	1833.4	1847.3	1849.7	1862.4	1871.7	1885.7	1897.3	1909.0	1911.3
40°	1660.2	1666.0	1678.8	1682.2	1684.6	1702.0	1713.6	1717.1	1722.9	1733.4	1747.3
42.5°	1505.5	1511.4	1525.3	1521.7	1532.3	1540.3	1546.2	1560.2	1566.0	1569.5	1569.5
45°	1353.2	1355.5	1364.9	1369.5	1375.4	1380.0	1390.4	1397.4	1399.8	1410.1	1413.7
47.5°	1207.9	1210.3	1217.2	1225.3	1223.0	1228.9	1240.5	1243.9	1245.2	1252.2	1255.5
50°	1065.0	1070.7	1080.1	1077.7	1084.7	1088.1	1098.7	1101.0	1101.0	1102.1	1103.4
52.5°	931.2	935.8	938.2	940.5	944.0	949.9	954.4	952.2	956.8	961.5	957.9
55°	798.7	802.2	808.0	810.3	810.3	811.5	809.2	819.7	815.0	813.9	815.0
57.5°	677.8	673.1	672.0	677.8	680.1	679.0	675.4	680.1	680.1	677.8	674.3
60°	560.3	556.8	555.8	556.8	552.2	548.8	551.1	548.8	542.9	540.5	541.8
62.5°	453.4	449.9	440.7	440.7	438.3	437.2	427.8	429.0	424.4	417.4	419.7
65°	354.6	345.3	340.7	339.4	331.3	324.4	322.0	313.8	307.0	305.8	307.0
67.5°	266.2	255.7	247.7	244.1	239.4	233.8	225.5	218.5	220.8	219.7	224.4
70°	184.8	177.9	169.8	163.9	166.2	159.3	154.6	154.6	155.8	157.0	159.3
72.5°	123.2	113.9	110.5	106.9	104.6	100.0	102.3	102.3	101.2	102.3	100.0
75°	69.7	65.2	61.6	60.5	58.2	58.2	58.2	58.2	57.0	55.8	55.8
77.5°	31.3	29.0	28.0	26.8	26.8	26.8	25.6	24.4	24.4	24.4	23.3
80°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
82.5°	4.7	4.7	5.9	5.9	5.9	4.7	5.9	5.9	4.7	4.7	5.9
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
87.5°	1.2	1.2	1.2	0.0	1.2	1.2	1.2	1.2	0.0	1.2	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: P859304

CATALOG NUMBER: LX4C60D010 EX4C609030 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9	3095.9
2.5°	3105.2	3106.3	3106.3	3106.3	3107.5	3107.5	3107.5	3107.5
5°	3097.1	3098.3	3098.3	3098.3	3099.4	3099.4	3099.4	3099.4
7.5°	3083.2	3084.4	3084.4	3085.4	3085.4	3086.6	3086.6	3087.7
10°	3066.9	3069.2	3070.3	3071.5	3072.7	3073.9	3073.9	3075.0
12.5°	3049.4	3051.7	3052.9	3055.3	3057.6	3058.7	3059.9	3061.1
15°	3023.8	3028.4	3030.7	3032.0	3036.6	3039.0	3040.1	3041.3
17.5°	2983.1	2992.4	2996.0	2998.3	3003.0	3007.7	3011.0	3012.1
20°	2925.1	2935.4	2940.1	2946.0	2952.8	2958.7	2961.1	2963.4
22.5°	2843.6	2855.3	2862.2	2869.2	2875.1	2880.8	2890.2	2886.7
25°	2727.3	2747.2	2755.3	2758.8	2771.6	2778.6	2783.2	2778.6
27.5°	2597.1	2608.8	2615.7	2624.0	2633.1	2640.1	2642.5	2649.6
30°	2440.3	2460.0	2458.9	2466.9	2478.6	2485.5	2487.9	2493.8
32.5°	2277.4	2286.8	2293.7	2292.6	2297.2	2310.1	2305.4	2315.9
35°	2104.2	2105.4	2117.1	2115.9	2125.1	2125.1	2125.1	2132.2
37.5°	1919.4	1933.4	1927.6	1941.5	1936.9	1940.3	1940.3	1942.6
40°	1750.8	1755.5	1755.5	1760.2	1763.7	1760.2	1762.5	1768.2
42.5°	1576.4	1581.0	1582.3	1579.9	1583.4	1594.0	1585.7	1592.7
45°	1413.7	1417.2	1421.8	1418.4	1424.2	1420.7	1424.2	1421.8
47.5°	1260.2	1259.0	1257.9	1267.2	1259.0	1260.2	1264.9	1256.6
50°	1103.4	1110.3	1105.6	1109.1	1111.4	1111.4	1107.9	1107.9
52.5°	963.8	962.6	959.1	962.6	960.2	961.5	963.8	961.5
55°	819.7	824.2	821.9	820.7	821.9	821.9	828.9	819.7
57.5°	677.8	675.4	679.0	687.1	679.0	684.8	688.3	689.4
60°	542.9	542.9	549.9	546.4	553.5	559.2	563.8	561.5
62.5°	413.9	419.7	422.0	423.3	430.2	434.9	434.9	433.6
65°	307.0	315.0	315.0	319.7	322.0	322.0	324.4	329.1
67.5°	226.7	226.7	227.9	230.2	229.1	229.1	231.4	232.5
70°	158.2	155.8	159.3	158.2	158.2	157.0	158.2	158.2
72.5°	100.0	100.0	101.2	100.0	97.7	98.9	98.9	101.2
75°	53.5	55.8	53.5	53.5	54.6	52.3	53.5	54.6
77.5°	22.1	22.1	22.1	22.1	22.1	21.0	21.0	21.0
80°	10.4	10.4	10.4	10.4	10.4	10.4	9.4	9.4
82.5°	4.7	5.9	4.7	5.9	4.7	4.7	4.7	4.7
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
87.5°	0.0	1.2	0.0	1.2	0.0	0.0	0.0	1.2
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)