

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: P859285

Luminaire Tested: **LX4C60D010 EX4C609030 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C60D010 EX4C609030 4LBLWWH  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

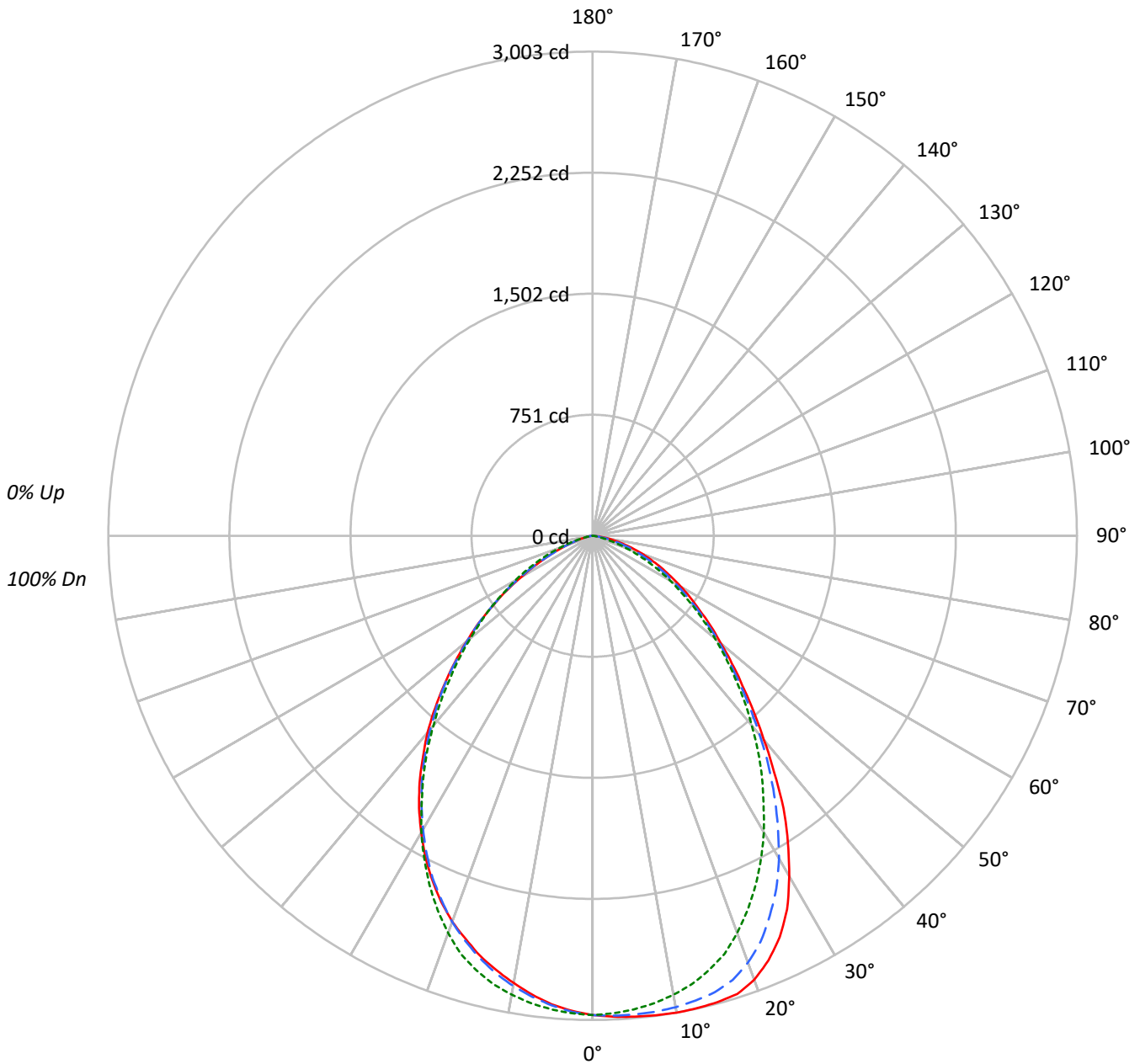
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5601.7 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17  
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	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68			68
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60			60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			39
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35			35
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32			32

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

	0°	90°	180°
0°	365170	365170	365170
5°	369241	363605	359658
10°	374645	360536	351405
15°	380811	354776	343011
20°	383219	342716	332859
25°	372231	324204	319243
30°	345923	301308	301479
35°	309656	274682	280516
40°	265114	246238	255219
45°	228209	217107	225238
50°	198389	189005	194681
55°	174585	162590	161113
60°	155336	135679	125016
65°	136249	108691	90406
70°	117027	76797	61172
75°	94981	44477	35790
80°	67919	19456	17829
85°	25795	8176	8176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.1	5.0
10°-20°	793.0	14.2
20°-30°	1132.3	20.2
30°-40°	1184.5	21.1
40°-50°	992.5	17.7
50°-60°	694.6	12.4
60°-70°	378.2	6.8
70°-80°	131.3	2.3
80°-90°	15.1	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°	2205.4	39.4
0°-40°	3389.9	60.5
0°-60°	5077.1	90.6
0°-90°	5601.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5601.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2972	2972	2972	2972	2972	
5°	2994	2980	2948	2923	2916	286
15°	2994	2931	2789	2709	2697	845
25°	2746	2600	2392	2345	2355	1254
35°	2065	1963	1832	1845	1870	1280
45°	1314	1284	1250	1291	1296	1021
55°	815	788	759	759	752	736
65°	469	428	374	314	311	467
75°	200	162	94	75	75	216
85°	18	10	6	6	6	33
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°	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4
2.5°	2986.1	2982.6	2983.8	2983.8	2983.8	2982.6	2983.8	2982.6	2982.6	2981.5	2979.2
5°	2994.1	2991.8	2991.8	2991.8	2990.7	2989.5	2989.5	2988.4	2986.1	2984.9	2980.3
7.5°	2999.8	2997.5	2997.5	2996.3	2995.3	2994.1	2993.0	2989.5	2986.1	2983.8	2978.0
10°	3003.2	2999.8	2999.8	2997.5	2995.3	2994.1	2991.8	2987.2	2982.6	2976.9	2969.0
12.5°	3000.9	2997.5	2996.3	2994.1	2989.5	2987.2	2984.9	2979.2	2971.3	2963.2	2953.0
15°	2994.1	2991.8	2989.5	2986.1	2980.3	2976.9	2974.7	2965.5	2955.3	2943.8	2931.2
17.5°	2980.3	2976.9	2972.4	2967.8	2959.8	2956.4	2950.7	2939.2	2924.3	2908.4	2888.9
20°	2931.2	2928.9	2924.3	2916.4	2903.8	2899.1	2891.2	2876.4	2856.9	2837.5	2816.9
22.5°	2850.0	2846.6	2839.8	2832.9	2821.4	2813.5	2806.6	2786.0	2764.3	2743.8	2724.4
25°	2746.0	2742.6	2733.4	2724.4	2712.8	2699.2	2692.3	2676.3	2654.5	2628.2	2599.7
27.5°	2612.2	2600.8	2597.4	2587.2	2569.9	2565.4	2555.1	2534.5	2513.9	2491.1	2467.1
30°	2438.5	2438.5	2431.7	2427.1	2411.1	2406.5	2395.0	2373.4	2361.9	2329.9	2311.6
32.5°	2254.5	2252.2	2246.4	2243.0	2233.9	2225.8	2214.4	2202.9	2177.9	2161.9	2136.7
35°	2064.7	2050.9	2053.2	2046.3	2040.7	2031.5	2030.3	2017.8	1994.9	1985.8	1962.9
37.5°	1848.6	1842.9	1850.9	1840.6	1834.8	1836.0	1826.9	1818.8	1809.8	1793.7	1789.2
40°	1653.1	1657.7	1656.6	1647.4	1652.0	1646.2	1637.1	1629.1	1624.5	1614.3	1610.8
42.5°	1478.2	1471.3	1469.0	1469.0	1470.2	1470.2	1465.6	1459.9	1459.9	1449.6	1439.3
45°	1313.5	1313.5	1311.2	1318.1	1307.9	1307.9	1304.4	1303.3	1298.7	1296.4	1283.9
47.5°	1171.8	1170.7	1169.6	1168.4	1167.2	1167.2	1160.4	1154.6	1153.6	1146.7	1139.8
50°	1038.0	1044.9	1042.6	1037.0	1034.7	1035.8	1031.2	1027.8	1026.6	1015.2	1016.4
52.5°	926.0	924.8	927.1	923.7	918.0	919.2	914.6	910.0	905.4	899.8	895.2
55°	815.1	820.9	818.6	815.1	814.0	811.7	808.2	802.6	801.4	788.8	787.6
57.5°	722.5	721.4	719.1	713.3	712.2	708.7	708.7	704.3	697.4	690.5	684.8
60°	632.2	632.2	628.8	627.7	623.1	621.9	620.8	616.2	608.2	602.5	593.3
62.5°	545.3	547.6	545.3	541.9	538.4	533.8	531.6	528.2	521.3	515.5	507.6
65°	468.7	467.6	466.4	461.8	460.7	456.1	455.1	448.2	441.3	436.7	427.6
67.5°	395.6	392.2	392.2	389.8	387.5	384.1	381.8	375.0	367.0	362.4	353.3
70°	325.8	323.5	323.5	323.5	317.9	314.4	313.3	309.8	298.4	293.8	284.6
72.5°	261.7	260.7	259.6	256.1	252.7	252.7	248.1	241.3	235.5	229.8	223.0
75°	200.1	202.4	200.1	195.5	194.4	192.0	188.6	183.0	177.2	170.3	162.4
77.5°	146.3	144.1	141.8	141.8	139.5	134.9	133.7	129.1	122.4	117.8	109.7
80°	96.0	94.9	92.6	90.3	89.1	88.0	86.9	82.3	75.4	72.0	65.2
82.5°	52.6	51.4	51.4	50.3	46.9	46.9	45.8	41.2	37.7	35.4	32.0
85°	18.3	18.3	18.3	17.1	17.1	17.1	16.0	14.8	13.7	12.5	10.2
87.5°	2.3	1.2	2.3	1.2	2.3	1.2	1.2	1.2	1.2	1.2	1.2
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°	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4
2.5°	2976.9	2974.7	2973.6	2972.4	2971.3	2970.1	2969.0	2966.7	2965.5	2964.4	2962.1
5°	2976.9	2972.4	2970.1	2966.7	2964.4	2962.1	2958.6	2955.3	2951.8	2948.4	2944.9
7.5°	2972.4	2965.5	2960.9	2954.1	2951.8	2948.4	2941.5	2937.0	2931.2	2924.3	2916.4
10°	2960.9	2953.0	2943.8	2934.7	2931.2	2925.5	2916.4	2908.4	2899.1	2890.1	2882.0
12.5°	2942.6	2930.1	2918.6	2906.0	2899.1	2893.5	2880.9	2869.5	2858.1	2847.7	2834.1
15°	2915.2	2900.3	2885.5	2868.3	2860.3	2853.5	2835.2	2821.4	2803.1	2789.4	2775.8
17.5°	2870.6	2847.7	2829.5	2807.7	2796.3	2788.3	2772.3	2750.6	2733.4	2718.6	2702.6
20°	2794.0	2772.3	2747.1	2723.2	2710.5	2700.3	2677.4	2654.5	2637.4	2621.4	2604.3
22.5°	2693.4	2666.0	2647.6	2618.0	2607.7	2595.1	2567.7	2547.1	2527.7	2511.6	2495.6
25°	2571.1	2547.1	2522.0	2494.5	2481.9	2467.1	2444.2	2422.5	2409.9	2391.7	2372.2
27.5°	2430.5	2411.1	2380.2	2356.1	2343.6	2332.2	2310.5	2291.0	2272.7	2260.1	2241.8
30°	2281.8	2259.1	2231.6	2206.4	2199.6	2185.8	2166.4	2151.5	2132.1	2124.0	2116.1
32.5°	2118.4	2092.1	2071.5	2055.5	2041.8	2030.3	2020.1	1996.1	1992.6	1972.0	1969.7
35°	1940.0	1928.7	1909.2	1895.4	1884.0	1876.0	1858.9	1847.5	1834.8	1831.5	1823.4
37.5°	1772.0	1758.2	1740.0	1727.4	1719.4	1718.2	1705.7	1698.8	1689.7	1685.1	1676.0
40°	1596.0	1590.2	1574.2	1571.9	1559.4	1558.2	1551.4	1543.3	1535.4	1535.4	1536.5
42.5°	1433.6	1426.7	1419.9	1411.9	1405.1	1405.1	1401.6	1399.3	1397.0	1393.6	1399.3
45°	1281.6	1272.4	1267.9	1259.8	1263.3	1256.4	1254.1	1254.1	1250.7	1249.6	1257.5
47.5°	1139.8	1129.5	1124.9	1122.6	1122.6	1123.8	1113.5	1116.9	1115.7	1118.0	1121.5
50°	1010.6	1001.4	994.6	994.6	995.8	991.2	986.6	990.0	986.6	988.9	996.9
52.5°	890.6	881.5	878.0	878.0	871.1	870.0	872.3	867.7	868.8	870.0	874.6
55°	779.7	773.9	768.2	762.6	763.7	761.4	756.8	755.7	758.0	759.1	764.9
57.5°	680.2	672.2	664.2	661.9	659.6	659.6	653.9	652.7	655.0	649.4	649.4
60°	585.3	580.8	570.5	567.1	567.1	561.3	556.7	559.0	553.3	552.2	553.3
62.5°	497.3	493.9	487.0	480.1	477.8	475.5	469.9	467.6	465.3	460.7	453.9
65°	420.7	412.7	404.7	400.1	396.7	391.0	387.5	383.0	376.2	373.9	367.0
67.5°	344.1	336.1	328.1	324.6	321.2	317.9	312.1	306.4	298.4	289.2	281.2
70°	276.7	266.3	261.7	252.7	250.4	245.8	237.8	232.1	224.0	213.8	205.7
72.5°	211.5	204.6	197.8	189.7	184.1	180.7	173.8	164.7	155.5	149.7	141.8
75°	152.0	148.6	139.5	130.3	128.0	123.5	115.5	109.7	102.9	93.7	86.9
77.5°	102.9	96.0	90.3	82.3	80.0	75.4	70.8	65.2	60.6	54.9	50.3
80°	60.6	54.9	51.4	45.8	43.5	41.2	37.7	33.1	29.7	27.5	26.3
82.5°	29.7	25.2	24.0	20.6	19.4	18.3	16.0	14.8	12.5	12.5	12.5
85°	10.2	8.0	8.0	6.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	1.2
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4
2.5°	2960.9	2959.8	2958.6	2957.5	2957.5	2956.4	2956.4	2955.3	2955.3	2954.1	2954.1
5°	2940.3	2937.0	2934.7	2932.4	2932.4	2928.9	2926.6	2924.3	2923.2	2923.2	2920.9
7.5°	2911.8	2907.2	2902.6	2899.1	2898.1	2892.4	2887.8	2887.8	2883.2	2880.9	2878.7
10°	2874.1	2866.0	2859.2	2855.8	2851.2	2847.7	2842.0	2838.7	2835.2	2829.5	2828.3
12.5°	2822.6	2816.9	2806.6	2802.0	2799.8	2792.9	2783.7	2779.2	2778.1	2773.5	2770.0
15°	2764.3	2751.7	2742.6	2736.9	2736.9	2725.4	2720.9	2714.0	2709.4	2706.0	2704.9
17.5°	2688.8	2676.3	2667.1	2659.1	2656.8	2647.6	2640.9	2638.6	2632.8	2635.1	2629.4
20°	2591.6	2581.4	2574.5	2564.3	2564.3	2558.5	2556.2	2550.5	2548.3	2546.0	2548.3
22.5°	2487.7	2475.0	2463.6	2462.5	2462.5	2454.4	2453.3	2452.3	2447.7	2451.1	2450.0
25°	2365.3	2356.1	2349.3	2348.2	2348.2	2343.6	2339.0	2341.3	2344.7	2343.6	2347.0
27.5°	2238.5	2229.3	2227.0	2225.8	2223.5	2222.4	2224.7	2224.7	2228.1	2232.7	2237.3
30°	2101.3	2099.0	2095.5	2094.4	2092.1	2097.8	2100.1	2103.6	2102.4	2109.2	2113.8
32.5°	1964.1	1959.5	1958.3	1960.6	1964.1	1962.9	1969.7	1972.0	1974.3	1982.4	1985.8
35°	1825.7	1824.6	1822.3	1822.3	1823.4	1832.5	1832.5	1840.6	1845.2	1847.5	1856.6
37.5°	1677.2	1681.6	1683.9	1687.4	1688.5	1692.0	1694.3	1702.2	1706.8	1711.4	1716.0
40°	1541.1	1538.8	1549.0	1542.1	1544.4	1554.8	1559.4	1558.2	1565.0	1571.9	1576.5
42.5°	1395.9	1399.3	1401.6	1403.9	1409.6	1410.7	1416.5	1424.5	1426.7	1434.7	1437.0
45°	1255.2	1256.4	1261.0	1265.6	1269.0	1278.1	1280.4	1283.9	1290.6	1290.6	1294.1
47.5°	1122.6	1127.2	1127.2	1134.1	1139.8	1138.6	1146.7	1149.0	1147.8	1153.6	1155.8
50°	995.8	1002.6	1001.4	1006.0	1008.3	1009.5	1016.4	1018.6	1014.1	1019.7	1020.9
52.5°	874.6	878.0	882.5	883.7	881.5	887.1	884.8	889.4	888.3	892.9	888.3
55°	763.7	762.6	762.6	764.9	762.6	764.9	767.0	762.6	759.1	763.7	762.6
57.5°	652.7	652.7	650.4	653.9	650.4	647.1	646.0	642.5	639.1	639.1	637.9
60°	548.8	546.5	541.9	540.7	540.7	535.0	532.8	528.2	528.2	523.6	519.0
62.5°	451.6	445.9	442.4	442.4	440.1	434.5	424.1	417.2	415.0	408.1	407.0
65°	360.1	354.4	351.0	344.1	338.4	336.1	325.8	317.9	314.4	307.5	308.7
67.5°	276.7	267.5	257.3	252.7	249.2	241.3	237.8	232.1	228.6	228.6	228.6
70°	199.0	190.9	180.7	177.2	174.9	168.0	164.7	163.5	166.9	165.7	166.9
72.5°	133.7	125.8	121.2	118.9	116.6	113.2	115.5	116.6	114.3	115.5	116.6
75°	81.2	78.9	75.4	74.3	74.3	75.4	74.3	74.3	75.4	75.4	76.6
77.5°	46.9	44.6	44.6	43.5	45.8	44.6	44.6	44.6	45.8	45.8	45.8
80°	25.2	25.2	25.2	25.2	26.3	25.2	26.3	26.3	26.3	26.3	26.3
82.5°	12.5	12.5	12.5	13.7	13.7	13.7	13.7	13.7	13.7	13.7	12.5
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	1.2	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	1.2
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: P859285

CATALOG NUMBER: LX4C60D010 EX4C609030 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4	2972.4
2.5°	2951.8	2951.8	2951.8	2949.5	2950.7	2950.7	2949.5	2949.5
5°	2919.7	2918.6	2916.4	2916.4	2914.1	2916.4	2915.2	2916.4
7.5°	2876.4	2876.4	2872.9	2872.9	2871.8	2870.6	2869.5	2870.6
10°	2824.9	2824.9	2822.6	2821.4	2822.6	2818.1	2818.1	2816.9
12.5°	2767.7	2765.4	2763.2	2764.3	2763.2	2759.8	2758.6	2759.8
15°	2701.5	2698.0	2699.2	2695.7	2695.7	2694.6	2696.9	2696.9
17.5°	2628.2	2626.0	2623.7	2624.9	2622.6	2623.7	2622.6	2621.4
20°	2547.1	2546.0	2546.0	2541.4	2542.5	2541.4	2542.5	2546.0
22.5°	2453.3	2452.3	2453.3	2450.0	2452.3	2452.3	2455.6	2455.6
25°	2350.5	2349.3	2351.6	2352.8	2353.9	2357.3	2353.9	2355.1
27.5°	2236.2	2239.6	2243.0	2244.1	2248.7	2245.3	2243.0	2246.4
30°	2120.7	2120.7	2119.6	2124.0	2127.5	2131.0	2125.2	2125.2
32.5°	1988.0	1993.8	1993.8	1994.9	1998.4	1998.4	1998.4	2003.0
35°	1861.2	1864.6	1865.8	1861.2	1863.5	1862.3	1870.4	1870.4
37.5°	1719.4	1719.4	1720.5	1728.6	1728.6	1725.1	1727.4	1727.4
40°	1584.5	1585.6	1581.0	1583.3	1589.1	1586.8	1589.1	1591.4
42.5°	1437.0	1445.0	1440.5	1442.8	1441.6	1442.8	1443.9	1443.9
45°	1296.4	1298.7	1298.7	1299.8	1302.1	1304.4	1297.5	1296.4
47.5°	1159.2	1160.4	1163.8	1158.0	1164.9	1158.0	1164.9	1156.9
50°	1020.9	1025.5	1022.0	1024.3	1020.9	1020.9	1019.7	1018.6
52.5°	889.4	888.3	888.3	887.1	887.1	889.4	887.1	890.6
55°	758.0	759.1	756.8	755.7	754.5	758.0	754.5	752.2
57.5°	633.3	635.6	631.0	633.3	625.4	628.8	630.0	631.0
60°	517.8	514.4	514.4	509.9	509.9	513.4	508.8	508.8
62.5°	401.2	403.5	400.1	404.7	404.7	409.3	407.0	409.3
65°	307.5	308.7	309.8	309.8	309.8	316.7	314.4	311.0
67.5°	232.1	233.2	234.4	233.2	236.7	234.4	234.4	235.5
70°	168.0	169.2	170.3	170.3	169.2	170.3	170.3	170.3
72.5°	116.6	117.8	116.6	117.8	118.9	117.8	117.8	118.9
75°	76.6	76.6	75.4	75.4	75.4	75.4	76.6	75.4
77.5°	44.6	45.8	44.6	45.8	45.8	45.8	45.8	45.8
80°	26.3	26.3	26.3	25.2	26.3	26.3	26.3	25.2
82.5°	13.7	13.7	12.5	12.5	13.7	13.7	13.7	13.7
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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)