

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: P859284

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

Issue Date: 2/9/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P859284  
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: -

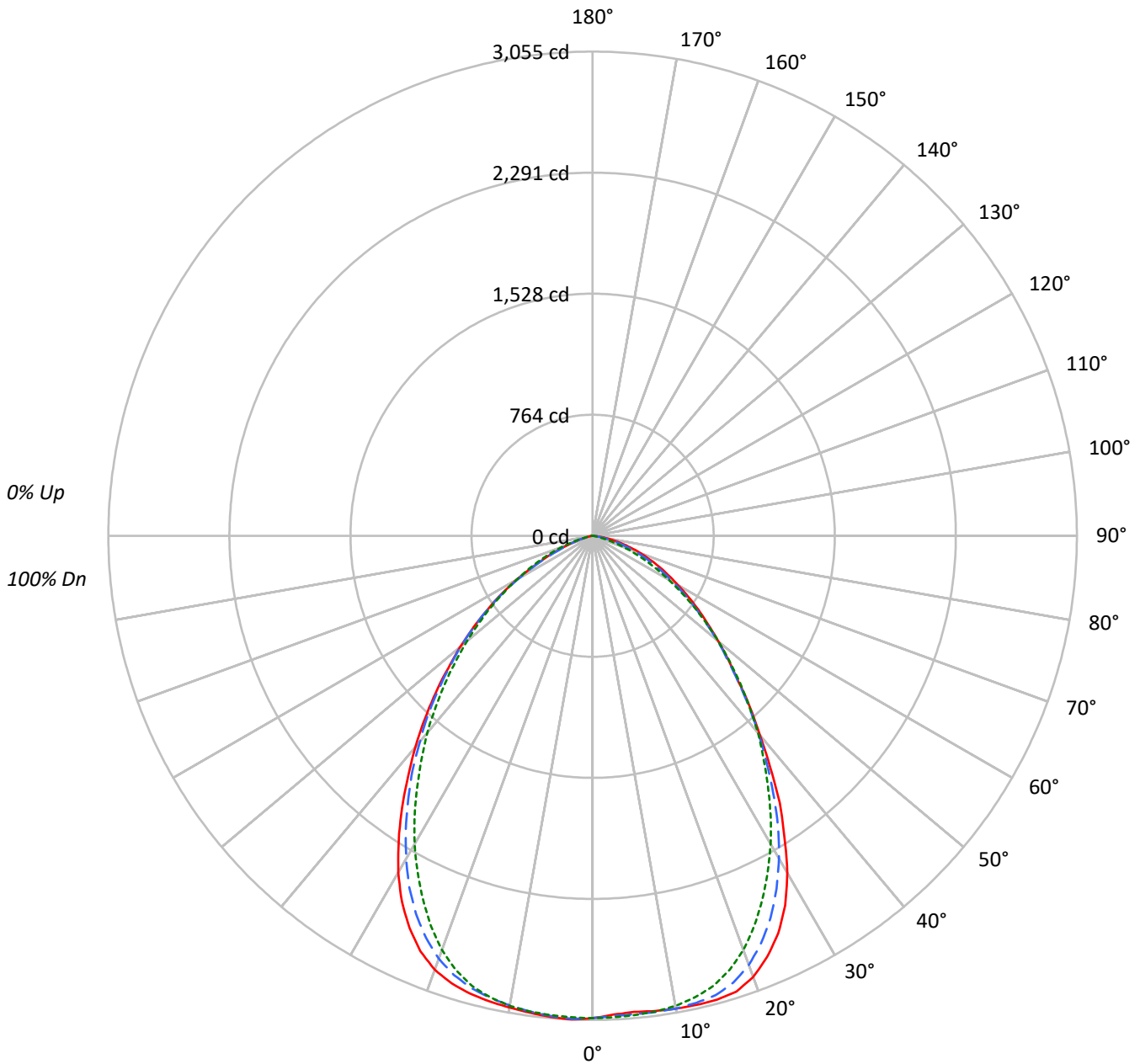
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5835.1 lumens  
Efficiency: N/A  
Efficacy: 59.8 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									
RC	80									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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

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

	0°	90°	180°
0°	373917	373917	373917
5°	371818	374346	375764
10°	377976	375693	377115
15°	385365	374020	380277
20°	387298	363543	380879
25°	375389	343304	370279
30°	348434	318587	347781
35°	308531	288990	314366
40°	263029	260271	278778
45°	225968	228556	242855
50°	197242	197682	208175
55°	174285	166960	172593
60°	152756	136195	135630
65°	135232	105639	94040
70°	115375	72666	55856
75°	93273	39065	25490
80°	63886	9693	6509
85°	19311	3242	3242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.3	5.0
10°-20°	837.4	14.4
20°-30°	1209.9	20.7
30°-40°	1250.8	21.4
40°-50°	1033.5	17.7
50°-60°	713.3	12.2
60°-70°	373.4	6.4
70°-80°	117.6	2.0
80°-90°	10.0	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°	2336.6	40.0
0°-40°	3587.4	61.5
0°-60°	5334.2	91.4
0°-90°	5835.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5835.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3044	3044	3044	3044	3044	
5°	3015	3030	3036	3041	3047	289
15°	3030	3001	2941	2954	2990	855
25°	2769	2657	2533	2634	2732	1264
35°	2057	1989	1927	2028	2096	1277
45°	1301	1295	1316	1376	1398	1014
55°	814	789	780	801	806	731
65°	465	422	363	302	324	461
75°	196	154	82	56	54	211
85°	14	7	2	2	2	28
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°	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6
2.5°	3024.2	3025.3	3025.3	3027.6	3027.6	3027.6	3028.8	3028.8	3029.9	3031.1	3032.2
5°	3015.0	3015.0	3017.3	3018.4	3020.7	3021.9	3024.2	3025.3	3027.6	3028.8	3029.9
7.5°	3024.2	3024.2	3025.3	3026.5	3026.5	3027.6	3027.6	3028.8	3029.9	3031.1	3031.1
10°	3029.9	3029.9	3029.9	3029.9	3031.1	3031.1	3031.1	3029.9	3029.9	3029.9	3028.8
12.5°	3032.2	3032.2	3031.1	3029.9	3031.1	3029.9	3029.9	3026.5	3024.2	3021.9	3018.4
15°	3029.9	3029.9	3028.8	3027.6	3026.5	3024.2	3023.0	3017.3	3012.8	3005.9	3001.3
17.5°	3015.0	3012.8	3010.5	3008.2	3003.6	3000.1	2997.8	2987.6	2979.5	2968.1	2955.6
20°	2962.4	2960.1	2956.8	2951.0	2945.3	2940.7	2933.9	2919.0	2911.0	2893.9	2881.3
22.5°	2876.7	2874.4	2875.6	2865.3	2853.8	2847.1	2842.5	2829.8	2816.1	2794.4	2780.7
25°	2769.3	2762.4	2762.4	2746.4	2740.7	2736.1	2730.4	2715.6	2695.0	2675.6	2657.3
27.5°	2629.8	2620.7	2616.1	2613.8	2600.1	2589.8	2581.9	2570.4	2553.2	2536.1	2511.0
30°	2456.2	2455.0	2449.3	2439.0	2428.7	2424.1	2415.0	2395.6	2379.6	2366.9	2350.9
32.5°	2251.6	2250.4	2250.4	2250.4	2243.5	2242.4	2228.7	2218.4	2205.8	2186.4	2176.1
35°	2057.2	2056.1	2057.2	2040.1	2035.5	2032.0	2031.0	2024.1	2007.0	1997.8	1988.7
37.5°	1837.8	1841.3	1839.0	1834.4	1840.1	1829.8	1837.8	1823.0	1816.1	1813.8	1803.5
40°	1640.1	1649.2	1640.1	1641.3	1646.9	1636.7	1636.7	1634.4	1629.8	1627.5	1625.2
42.5°	1471.0	1459.5	1466.4	1460.6	1466.4	1462.9	1457.2	1460.6	1461.8	1457.2	1456.0
45°	1300.6	1302.9	1305.2	1301.8	1301.8	1298.4	1307.6	1301.8	1301.8	1302.9	1294.9
47.5°	1162.3	1159.0	1161.2	1159.0	1160.0	1157.8	1160.0	1161.2	1159.0	1159.0	1152.1
50°	1032.0	1029.7	1037.8	1030.9	1030.9	1029.7	1030.9	1028.7	1025.2	1025.2	1027.5
52.5°	918.8	914.4	913.2	918.8	910.9	910.9	912.1	909.8	905.2	902.9	897.2
55°	813.7	812.6	813.7	809.1	806.8	806.8	801.2	798.9	797.8	792.0	788.6
57.5°	715.4	712.1	713.2	712.1	707.5	706.3	701.7	701.7	697.1	692.6	686.9
60°	621.7	621.7	625.1	620.7	617.2	614.9	612.6	610.3	602.4	594.3	587.4
62.5°	538.3	539.5	538.3	534.9	532.6	530.3	528.1	521.2	514.3	509.8	501.7
65°	465.2	464.0	460.6	458.3	452.6	452.6	448.0	444.6	436.5	429.8	421.7
67.5°	389.7	387.4	387.4	387.4	380.5	379.5	377.2	370.3	363.4	354.3	347.4
70°	321.2	323.5	320.0	316.6	313.1	312.0	308.5	301.8	293.7	284.6	278.9
72.5°	256.0	258.3	254.8	253.7	246.9	244.6	243.5	237.7	228.6	222.9	213.7
75°	196.5	197.7	195.4	193.2	188.6	187.4	181.7	177.1	171.5	162.3	154.3
77.5°	141.7	139.4	139.4	134.9	130.3	130.3	129.1	122.2	114.3	107.4	100.6
80°	90.3	89.1	85.7	83.5	80.0	78.9	77.7	72.0	66.2	61.8	57.2
82.5°	45.8	44.6	43.5	42.3	40.0	37.7	38.9	34.3	32.0	27.5	24.0
85°	13.7	14.8	14.8	13.7	12.5	12.5	12.5	11.4	9.2	8.0	6.9
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°	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6
2.5°	3033.2	3034.4	3035.5	3036.7	3036.7	3037.8	3039.0	3040.1	3041.3	3041.3	3042.4
5°	3031.1	3033.2	3033.2	3034.4	3034.4	3034.4	3035.5	3035.5	3035.5	3035.5	3036.7
7.5°	3032.2	3032.2	3032.2	3031.1	3031.1	3029.9	3029.9	3029.9	3027.6	3027.6	3027.6
10°	3026.5	3025.3	3024.2	3021.9	3020.7	3019.6	3017.3	3015.0	3012.8	3011.6	3009.3
12.5°	3015.0	3010.5	3005.9	3001.3	2999.0	2997.8	2993.3	2989.9	2986.4	2983.0	2980.7
15°	2992.2	2985.3	2977.2	2968.1	2965.8	2963.5	2955.6	2948.7	2944.1	2940.7	2935.0
17.5°	2946.4	2932.7	2923.5	2909.8	2904.1	2901.9	2889.3	2882.5	2874.4	2872.1	2867.5
20°	2865.3	2852.7	2835.6	2823.0	2816.1	2809.3	2799.0	2789.9	2780.7	2780.7	2775.0
22.5°	2763.6	2747.6	2725.8	2709.9	2708.7	2695.0	2685.8	2675.6	2672.1	2665.2	2665.2
25°	2635.6	2621.9	2597.8	2584.2	2577.3	2573.8	2559.0	2545.3	2538.4	2532.6	2537.2
27.5°	2493.9	2473.3	2455.0	2437.9	2432.1	2425.2	2411.5	2405.8	2393.3	2392.1	2391.0
30°	2331.5	2310.9	2292.6	2284.7	2273.2	2267.6	2257.2	2250.4	2245.8	2245.8	2243.5
32.5°	2161.2	2142.9	2133.8	2116.7	2110.9	2103.0	2096.1	2089.2	2091.5	2089.2	2090.4
35°	1977.2	1972.7	1955.6	1945.2	1945.2	1944.1	1932.7	1928.1	1925.8	1926.9	1932.7
37.5°	1802.4	1788.7	1777.2	1770.4	1776.1	1769.3	1768.1	1768.1	1774.9	1770.4	1779.5
40°	1616.1	1614.9	1610.3	1612.6	1613.8	1605.7	1608.0	1609.2	1613.8	1622.9	1624.0
42.5°	1453.8	1452.7	1452.7	1452.7	1450.4	1445.8	1450.4	1458.3	1457.2	1464.1	1469.8
45°	1297.2	1294.9	1299.5	1296.0	1302.9	1305.2	1301.8	1304.1	1310.9	1315.5	1324.7
47.5°	1154.4	1154.4	1155.5	1157.8	1150.9	1156.7	1159.0	1163.5	1166.9	1169.2	1173.8
50°	1021.8	1021.8	1019.5	1019.5	1019.5	1022.9	1018.3	1024.1	1025.2	1034.3	1040.1
52.5°	899.5	893.8	897.2	894.9	890.3	888.0	890.3	891.5	898.4	900.6	907.5
55°	782.9	782.9	773.7	771.4	774.9	773.7	772.6	772.6	776.0	779.5	785.2
57.5°	680.0	673.2	666.3	665.2	661.7	662.9	662.9	661.7	659.4	660.6	661.7
60°	582.9	578.3	568.0	568.0	566.8	565.7	560.0	558.9	553.2	554.3	549.7
62.5°	493.7	491.5	477.7	473.1	473.1	469.8	464.0	462.9	454.8	454.8	450.3
65°	413.8	406.9	398.8	390.9	390.9	386.3	382.8	372.6	366.8	363.4	356.6
67.5°	340.6	330.3	322.3	315.4	310.8	309.7	301.8	294.9	285.8	280.0	269.7
70°	269.7	261.7	253.7	246.9	242.3	237.7	229.8	219.4	212.6	202.3	195.4
72.5°	203.4	196.5	189.7	180.5	174.9	171.5	163.4	154.3	142.8	136.0	126.8
75°	146.3	138.3	129.1	121.1	117.8	114.3	105.1	98.3	90.3	82.3	73.1
77.5°	94.9	85.7	78.9	69.7	68.5	66.2	57.2	50.3	44.6	40.0	34.3
80°	50.3	45.8	40.0	34.3	32.0	28.5	24.0	20.6	17.1	13.7	11.4
82.5°	21.7	18.3	14.8	12.5	11.4	10.2	8.0	6.9	5.8	5.8	4.6
85°	5.8	4.6	4.6	3.4	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°	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6
2.5°	3043.6	3044.7	3045.9	3045.9	3047.0	3048.2	3048.2	3049.3	3050.5	3051.5	3051.5
5°	3037.8	3037.8	3037.8	3039.0	3039.0	3039.0	3039.0	3041.3	3041.3	3042.4	3043.6
7.5°	3026.5	3026.5	3026.5	3026.5	3025.3	3026.5	3025.3	3025.3	3027.6	3028.8	3029.9
10°	3008.2	3007.0	3007.0	3005.9	3005.9	3005.9	3007.0	3008.2	3009.3	3010.5	3013.9
12.5°	2979.5	2978.4	2978.4	2977.2	2977.2	2978.4	2979.5	2981.8	2986.4	2988.7	2993.3
15°	2933.9	2932.7	2933.9	2935.0	2937.3	2940.7	2944.1	2947.6	2954.5	2960.1	2965.8
17.5°	2867.5	2868.7	2869.8	2872.1	2875.6	2880.2	2889.3	2898.5	2906.4	2915.6	2924.7
20°	2776.1	2780.7	2781.8	2789.9	2792.1	2802.4	2812.7	2826.5	2839.0	2850.4	2863.0
22.5°	2666.4	2669.8	2674.4	2683.5	2689.3	2703.0	2715.6	2731.6	2745.3	2760.1	2778.4
25°	2541.8	2543.0	2556.7	2556.7	2570.4	2581.9	2596.7	2613.8	2634.4	2653.9	2666.4
27.5°	2400.2	2405.8	2416.1	2420.6	2431.0	2449.3	2461.8	2482.4	2503.0	2520.1	2533.8
30°	2251.6	2256.1	2273.2	2275.5	2283.6	2299.5	2316.7	2336.1	2352.1	2371.5	2384.1
32.5°	2095.0	2107.5	2117.8	2125.8	2128.1	2152.1	2161.2	2175.0	2193.3	2212.7	2225.2
35°	1942.9	1948.7	1963.5	1968.1	1975.0	1988.7	2007.0	2018.4	2027.6	2040.1	2054.9
37.5°	1781.8	1798.9	1802.4	1816.1	1818.4	1830.9	1840.1	1853.8	1865.2	1876.7	1879.0
40°	1632.1	1637.8	1650.4	1653.8	1656.1	1673.2	1684.6	1688.1	1693.8	1704.1	1717.8
42.5°	1480.0	1485.8	1499.5	1496.0	1506.4	1514.3	1520.1	1533.8	1539.5	1543.0	1543.0
45°	1330.3	1332.6	1341.8	1346.3	1352.1	1356.7	1366.9	1373.8	1376.1	1386.3	1389.8
47.5°	1187.5	1189.8	1196.6	1204.6	1202.3	1208.1	1219.5	1222.9	1224.1	1231.0	1234.3
50°	1047.0	1052.6	1061.8	1059.5	1066.4	1069.7	1080.1	1082.4	1082.4	1083.5	1084.7
52.5°	915.5	920.0	922.3	924.6	928.0	933.8	938.3	936.1	940.6	945.2	941.7
55°	785.2	788.6	794.3	796.6	796.6	797.8	795.5	805.8	801.2	800.1	801.2
57.5°	666.3	661.7	660.6	666.3	668.6	667.5	664.0	668.6	668.6	666.3	662.9
60°	550.8	547.4	546.4	547.4	542.9	539.5	541.8	539.5	533.7	531.4	532.6
62.5°	445.7	442.3	433.2	433.2	430.9	429.8	420.6	421.7	417.2	410.3	412.6
65°	348.6	339.5	334.9	333.7	325.7	318.9	316.6	308.5	301.8	300.6	301.8
67.5°	261.7	251.4	243.5	240.0	235.4	229.8	221.7	214.8	217.1	216.0	220.6
70°	181.7	174.9	166.9	161.1	163.4	156.6	152.0	152.0	153.2	154.3	156.6
72.5°	121.1	112.0	108.6	105.1	102.8	98.3	100.6	100.6	99.5	100.6	98.3
75°	68.5	64.1	60.6	59.5	57.2	57.2	57.2	57.2	56.0	54.9	54.9
77.5°	30.8	28.5	27.5	26.3	26.3	26.3	25.2	24.0	24.0	24.0	22.9
80°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
82.5°	4.6	4.6	5.8	5.8	5.8	4.6	5.8	5.8	4.6	4.6	5.8
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: P859284

CATALOG NUMBER: LX4C60D010 EX4C609030 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6	3043.6
2.5°	3052.7	3053.8	3053.8	3053.8	3055.0	3055.0	3055.0	3055.0
5°	3044.7	3045.9	3045.9	3045.9	3047.0	3047.0	3047.0	3047.0
7.5°	3031.1	3032.2	3032.2	3033.2	3033.2	3034.4	3034.4	3035.5
10°	3015.0	3017.3	3018.4	3019.6	3020.7	3021.9	3021.9	3023.0
12.5°	2997.8	3000.1	3001.3	3003.6	3005.9	3007.0	3008.2	3009.3
15°	2972.7	2977.2	2979.5	2980.7	2985.3	2987.6	2988.7	2989.9
17.5°	2932.7	2941.8	2945.3	2947.6	2952.2	2956.8	2960.1	2961.2
20°	2875.6	2885.8	2890.4	2896.2	2902.9	2908.7	2911.0	2913.3
22.5°	2795.5	2807.0	2813.8	2820.7	2826.5	2832.1	2841.3	2837.9
25°	2681.2	2700.7	2708.7	2712.2	2724.7	2731.6	2736.1	2731.6
27.5°	2553.2	2564.7	2571.5	2579.6	2588.6	2595.5	2597.8	2604.8
30°	2399.0	2418.4	2417.3	2425.2	2436.7	2443.5	2445.8	2451.6
32.5°	2238.9	2248.1	2254.9	2253.8	2258.4	2271.0	2266.4	2276.7
35°	2068.6	2069.8	2081.3	2080.1	2089.2	2089.2	2089.2	2096.1
37.5°	1886.9	1900.7	1895.0	1908.7	1904.1	1907.5	1907.5	1909.8
40°	1721.2	1725.8	1725.8	1730.4	1733.9	1730.4	1732.7	1738.3
42.5°	1549.7	1554.3	1555.5	1553.2	1556.6	1567.0	1558.9	1565.8
45°	1389.8	1393.2	1397.8	1394.4	1400.1	1396.7	1400.1	1397.8
47.5°	1238.9	1237.7	1236.6	1245.8	1237.7	1238.9	1243.5	1235.4
50°	1084.7	1091.5	1086.9	1090.3	1092.6	1092.6	1089.2	1089.2
52.5°	947.5	946.3	942.9	946.3	944.0	945.2	947.5	945.2
55°	805.8	810.3	808.0	806.8	808.0	808.0	814.9	805.8
57.5°	666.3	664.0	667.5	675.5	667.5	673.2	676.7	677.7
60°	533.7	533.7	540.6	537.2	544.1	549.7	554.3	552.0
62.5°	406.9	412.6	414.9	416.1	422.9	427.5	427.5	426.3
65°	301.8	309.7	309.7	314.3	316.6	316.6	318.9	323.5
67.5°	222.9	222.9	224.0	226.3	225.2	225.2	227.5	228.6
70°	155.5	153.2	156.6	155.5	155.5	154.3	155.5	155.5
72.5°	98.3	98.3	99.5	98.3	96.0	97.2	97.2	99.5
75°	52.6	54.9	52.6	52.6	53.7	51.4	52.6	53.7
77.5°	21.7	21.7	21.7	21.7	21.7	20.6	20.6	20.6
80°	10.2	10.2	10.2	10.2	10.2	10.2	9.2	9.2
82.5°	4.6	5.8	4.6	5.8	4.6	4.6	4.6	4.6
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)