

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: P859259

Luminaire Tested: **LX4C60D010 EX4C609050 4LBLWWH**

Issue Date: 2/14/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P859259  
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 EX4C609050 4LBLWWH  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

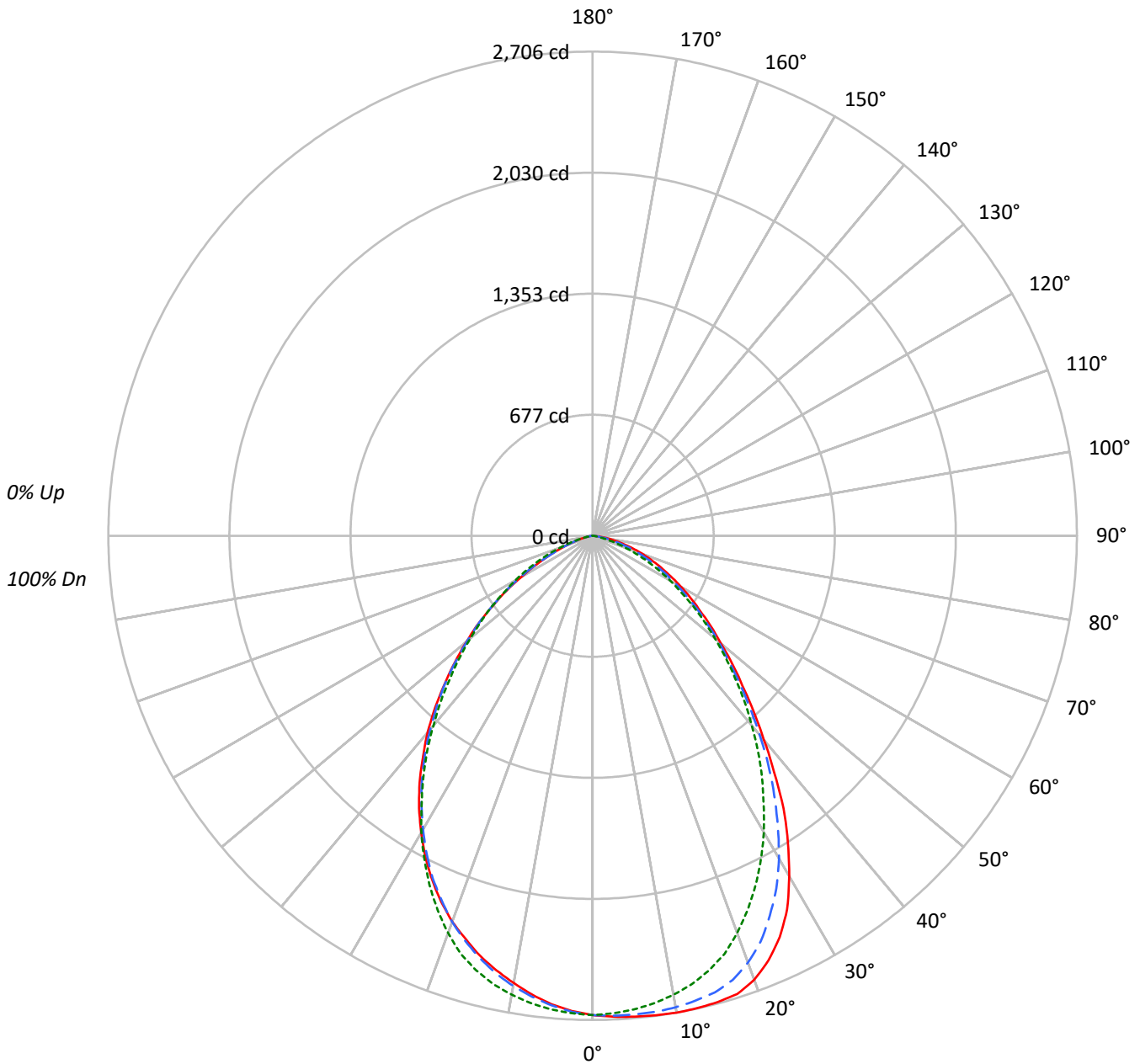
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5048.0 lumens  
Efficiency: N/A  
Efficacy: 70.1 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): 72  
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	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

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

	0°	90°	180°
0°	329075	329075	329075
5°	332749	327669	324105
10°	337620	324895	316675
15°	343177	319723	309103
20°	345344	308842	299952
25°	335441	292146	287686
30°	311735	271546	271688
35°	279046	247521	252785
40°	238909	221893	229992
45°	205657	195632	202982
50°	178779	170312	175435
55°	157343	146526	145198
60°	139979	122264	112657
65°	122790	97936	81453
70°	105461	69218	55137
75°	85583	40110	32278
80°	61197	17475	16060
85°	23258	7330	7330



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.4	5.0
10°-20°	714.6	14.2
20°-30°	1020.4	20.2
30°-40°	1067.5	21.1
40°-50°	894.4	17.7
50°-60°	626.0	12.4
60°-70°	340.9	6.8
70°-80°	118.3	2.3
80°-90°	13.6	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°	1987.4	39.4
0°-40°	3054.9	60.5
0°-60°	4575.3	90.6
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°	2679	2679	2679	2679	2679	
5°	2698	2686	2657	2634	2628	258
15°	2698	2642	2514	2442	2430	762
25°	2475	2343	2155	2113	2122	1130
35°	1861	1769	1650	1663	1686	1154
45°	1184	1157	1126	1163	1168	920
55°	735	710	684	684	678	664
65°	422	385	337	283	280	421
75°	180	146	84	68	68	194
85°	16	9	5	5	5	30
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°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6
2.5°	2691.0	2687.9	2688.9	2688.9	2688.9	2687.9	2688.9	2687.9	2687.9	2686.8	2684.8
5°	2698.2	2696.1	2696.1	2696.1	2695.1	2694.0	2694.0	2693.0	2691.0	2689.9	2685.8
7.5°	2703.3	2701.3	2701.3	2700.2	2699.2	2698.2	2697.1	2694.0	2691.0	2688.9	2683.7
10°	2706.4	2703.3	2703.3	2701.3	2699.2	2698.2	2696.1	2692.0	2687.9	2682.7	2675.5
12.5°	2704.3	2701.3	2700.2	2698.2	2694.0	2692.0	2689.9	2684.8	2677.6	2670.4	2661.1
15°	2698.2	2696.1	2694.0	2691.0	2685.8	2682.7	2680.7	2672.4	2663.1	2652.8	2641.5
17.5°	2685.8	2682.7	2678.6	2674.5	2667.3	2664.2	2659.0	2648.7	2635.3	2620.9	2603.4
20°	2641.5	2639.4	2635.3	2628.1	2616.8	2612.7	2605.4	2592.1	2574.5	2557.0	2538.5
22.5°	2568.4	2565.3	2559.1	2552.9	2542.6	2535.4	2529.2	2510.7	2491.1	2472.5	2455.0
25°	2474.6	2471.5	2463.3	2455.0	2444.7	2432.4	2426.2	2411.8	2392.2	2368.5	2342.7
27.5°	2354.1	2343.8	2340.7	2331.4	2316.0	2311.8	2302.6	2284.0	2265.5	2244.9	2223.2
30°	2197.5	2197.5	2191.3	2187.2	2172.8	2168.6	2158.3	2138.8	2128.5	2099.6	2083.1
32.5°	2031.6	2029.5	2024.4	2021.3	2013.1	2005.9	1995.6	1985.2	1962.6	1948.2	1925.5
35°	1860.6	1848.2	1850.3	1844.1	1839.0	1830.7	1829.7	1818.4	1797.7	1789.5	1768.9
37.5°	1665.9	1660.7	1667.9	1658.7	1653.5	1654.5	1646.3	1639.1	1630.9	1616.4	1612.3
40°	1489.7	1493.8	1492.8	1484.6	1488.7	1483.5	1475.3	1468.1	1464.0	1454.7	1451.6
42.5°	1332.1	1325.9	1323.8	1323.8	1324.9	1324.9	1320.8	1315.6	1315.6	1306.3	1297.1
45°	1183.7	1183.7	1181.7	1187.9	1178.6	1178.6	1175.5	1174.5	1170.3	1168.3	1156.9
47.5°	1056.0	1055.0	1053.9	1052.9	1051.9	1051.9	1045.7	1040.5	1039.5	1033.3	1027.1
50°	935.4	941.6	939.6	934.4	932.4	933.4	929.3	926.2	925.1	914.8	915.9
52.5°	834.5	833.5	835.5	832.4	827.3	828.3	824.2	820.1	815.9	810.8	806.7
55°	734.6	739.7	737.6	734.6	733.5	731.5	728.4	723.2	722.2	710.9	709.8
57.5°	651.1	650.1	648.0	642.9	641.8	638.7	638.7	634.6	628.4	622.3	617.1
60°	569.7	569.7	566.6	565.6	561.5	560.4	559.4	555.3	548.1	542.9	534.7
62.5°	491.4	493.5	491.4	488.3	485.2	481.1	479.1	476.0	469.8	464.6	457.4
65°	422.4	421.4	420.3	416.2	415.2	411.1	410.0	403.8	397.7	393.5	385.3
67.5°	356.5	353.4	353.4	351.3	349.2	346.2	344.1	337.9	330.7	326.6	318.3
70°	293.6	291.6	291.6	291.6	286.4	283.3	282.3	279.2	268.9	264.8	256.5
72.5°	235.9	234.9	233.9	230.8	227.7	227.7	223.6	217.4	212.2	207.1	200.9
75°	180.3	182.4	180.3	176.2	175.1	173.1	170.0	164.8	159.7	153.5	146.3
77.5°	131.9	129.8	127.7	127.7	125.7	121.6	120.5	116.4	110.2	106.1	98.9
80°	86.5	85.5	83.4	81.4	80.4	79.3	78.3	74.2	68.0	64.9	58.7
82.5°	47.4	46.4	46.4	45.3	42.2	42.2	41.2	37.1	34.0	31.9	28.8
85°	16.5	16.5	16.5	15.5	15.5	15.5	14.4	13.4	12.4	11.3	9.3
87.5°	2.1	1.0	2.1	1.0	2.1	1.0	1.0	1.0	1.0	1.0	1.0
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°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6
2.5°	2682.7	2680.7	2679.6	2678.6	2677.6	2676.5	2675.5	2673.4	2672.4	2671.4	2669.3
5°	2682.7	2678.6	2676.5	2673.4	2671.4	2669.3	2666.2	2663.1	2660.0	2657.0	2653.9
7.5°	2678.6	2672.4	2668.3	2662.1	2660.0	2657.0	2650.8	2646.7	2641.5	2635.3	2628.1
10°	2668.3	2661.1	2652.8	2644.6	2641.5	2636.4	2628.1	2620.9	2612.7	2604.4	2597.2
12.5°	2651.8	2640.5	2630.2	2618.8	2612.7	2607.5	2596.2	2585.9	2575.6	2566.3	2553.9
15°	2627.1	2613.7	2600.3	2584.8	2577.6	2571.4	2555.0	2542.6	2526.1	2513.8	2501.4
17.5°	2586.9	2566.3	2549.8	2530.2	2519.9	2512.7	2498.3	2478.7	2463.3	2449.9	2435.5
20°	2517.9	2498.3	2475.6	2454.0	2442.7	2433.4	2412.8	2392.2	2376.7	2362.3	2346.9
22.5°	2427.2	2402.5	2386.0	2359.2	2349.9	2338.6	2313.9	2295.3	2277.8	2263.4	2249.0
25°	2317.0	2295.3	2272.7	2248.0	2236.6	2223.2	2202.6	2183.1	2171.7	2155.2	2137.7
27.5°	2190.3	2172.8	2144.9	2123.3	2112.0	2101.7	2082.1	2064.6	2048.1	2036.8	2020.3
30°	2056.3	2035.7	2011.0	1988.3	1982.2	1969.8	1952.3	1938.9	1921.4	1914.2	1907.0
32.5°	1909.0	1885.3	1866.8	1852.3	1840.0	1829.7	1820.4	1798.8	1795.7	1777.1	1775.1
35°	1748.3	1738.0	1720.5	1708.1	1697.8	1690.6	1675.2	1664.8	1653.5	1650.4	1643.2
37.5°	1596.9	1584.5	1568.0	1556.7	1549.5	1548.4	1537.1	1530.9	1522.7	1518.6	1510.3
40°	1438.2	1433.0	1418.6	1416.6	1405.2	1404.2	1398.0	1390.8	1383.6	1383.6	1384.6
42.5°	1291.9	1285.7	1279.5	1272.3	1266.1	1266.1	1263.1	1261.0	1258.9	1255.8	1261.0
45°	1154.9	1146.6	1142.5	1135.3	1138.4	1132.2	1130.2	1130.2	1127.1	1126.0	1133.3
47.5°	1027.1	1017.9	1013.7	1011.7	1011.7	1012.7	1003.4	1006.5	1005.5	1007.6	1010.7
50°	910.7	902.5	896.3	896.3	897.3	893.2	889.1	892.2	889.1	891.1	898.4
52.5°	802.5	794.3	791.2	791.2	785.0	784.0	786.1	781.9	783.0	784.0	788.1
55°	702.6	697.5	692.3	687.2	688.2	686.1	682.0	681.0	683.0	684.1	689.2
57.5°	613.0	605.8	598.6	596.5	594.4	594.4	589.3	588.3	590.3	585.2	585.2
60°	527.5	523.4	514.1	511.0	511.0	505.8	501.7	503.8	498.6	497.6	498.6
62.5°	448.1	445.1	438.9	432.7	430.6	428.6	423.4	421.4	419.3	415.2	409.0
65°	379.1	371.9	364.7	360.6	357.5	352.3	349.2	345.1	338.9	336.9	330.7
67.5°	310.1	302.9	295.7	292.6	289.5	286.4	281.3	276.1	268.9	260.6	253.4
70°	249.3	240.0	235.9	227.7	225.6	221.5	214.3	209.1	201.9	192.7	185.4
72.5°	190.6	184.4	178.2	171.0	165.9	162.8	156.6	148.4	140.1	135.0	127.7
75°	137.0	133.9	125.7	117.4	115.4	111.3	104.1	98.9	92.7	84.5	78.3
77.5°	92.7	86.5	81.4	74.2	72.1	68.0	63.9	58.7	54.6	49.5	45.3
80°	54.6	49.5	46.4	41.2	39.1	37.1	34.0	29.9	26.8	24.7	23.7
82.5°	26.8	22.7	21.6	18.5	17.5	16.5	14.4	13.4	11.3	11.3	11.3
85°	9.3	7.2	7.2	6.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	1.0
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°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6
2.5°	2668.3	2667.3	2666.2	2665.2	2665.2	2664.2	2664.2	2663.1	2663.1	2662.1	2662.1
5°	2649.7	2646.7	2644.6	2642.5	2642.5	2639.4	2637.4	2635.3	2634.3	2634.3	2632.2
7.5°	2624.0	2619.9	2615.7	2612.7	2611.6	2606.5	2602.4	2602.4	2598.2	2596.2	2594.1
10°	2590.0	2582.8	2576.6	2573.5	2569.4	2566.3	2561.1	2558.1	2555.0	2549.8	2548.8
12.5°	2543.6	2538.5	2529.2	2525.1	2523.0	2516.8	2508.6	2504.5	2503.5	2499.3	2496.2
15°	2491.1	2479.8	2471.5	2466.4	2466.4	2456.1	2451.9	2445.8	2441.6	2438.5	2437.5
17.5°	2423.1	2411.8	2403.5	2396.3	2394.2	2386.0	2379.8	2377.8	2372.6	2374.7	2369.5
20°	2335.5	2326.3	2320.1	2310.8	2310.8	2305.6	2303.6	2298.4	2296.4	2294.3	2296.4
22.5°	2241.8	2230.4	2220.1	2219.1	2219.1	2211.9	2210.9	2209.8	2205.7	2208.8	2207.8
25°	2131.5	2123.3	2117.1	2116.1	2116.1	2112.0	2107.8	2109.9	2113.0	2112.0	2115.1
27.5°	2017.2	2008.9	2006.9	2005.9	2003.8	2002.8	2004.8	2004.8	2007.9	2012.0	2016.2
30°	1893.6	1891.5	1888.4	1887.4	1885.3	1890.5	1892.5	1895.6	1894.6	1900.8	1904.9
32.5°	1769.9	1765.8	1764.8	1766.8	1769.9	1768.9	1775.1	1777.1	1779.2	1786.4	1789.5
35°	1645.3	1644.2	1642.2	1642.2	1643.2	1651.5	1651.5	1658.7	1662.8	1664.8	1673.1
37.5°	1511.3	1515.5	1517.5	1520.6	1521.6	1524.7	1526.8	1534.0	1538.1	1542.3	1546.4
40°	1388.7	1386.7	1396.0	1389.8	1391.8	1401.1	1405.2	1404.2	1410.4	1416.6	1420.7
42.5°	1257.9	1261.0	1263.1	1265.1	1270.3	1271.3	1276.5	1283.7	1285.7	1292.9	1295.0
45°	1131.2	1132.2	1136.3	1140.5	1143.6	1151.8	1153.9	1156.9	1163.1	1163.1	1166.2
47.5°	1011.7	1015.8	1015.8	1022.0	1027.1	1026.1	1033.3	1035.4	1034.3	1039.5	1041.6
50°	897.3	903.5	902.5	906.6	908.7	909.7	915.9	917.9	913.8	919.0	920.0
52.5°	788.1	791.2	795.3	796.4	794.3	799.5	797.4	801.5	800.5	804.6	800.5
55°	688.2	687.2	687.2	689.2	687.2	689.2	691.3	687.2	684.1	688.2	687.2
57.5°	588.3	588.3	586.2	589.3	586.2	583.1	582.1	579.0	575.9	575.9	574.9
60°	494.5	492.4	488.3	487.3	487.3	482.1	480.1	476.0	476.0	471.8	467.7
62.5°	406.9	401.8	398.7	398.7	396.6	391.5	382.2	376.0	374.0	367.8	366.8
65°	324.5	319.4	316.3	310.1	304.9	302.9	293.6	286.4	283.3	277.1	278.2
67.5°	249.3	241.1	231.8	227.7	224.6	217.4	214.3	209.1	206.0	206.0	206.0
70°	179.3	172.0	162.8	159.7	157.6	151.4	148.4	147.3	150.4	149.4	150.4
72.5°	120.5	113.3	109.2	107.1	105.1	102.0	104.1	105.1	103.0	104.1	105.1
75°	73.1	71.1	68.0	67.0	67.0	68.0	67.0	67.0	68.0	68.0	69.0
77.5°	42.2	40.2	40.2	39.1	41.2	40.2	40.2	40.2	41.2	41.2	41.2
80°	22.7	22.7	22.7	22.7	23.7	22.7	23.7	23.7	23.7	23.7	23.7
82.5°	11.3	11.3	11.3	12.4	12.4	12.4	12.4	12.4	12.4	12.4	11.3
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
87.5°	1.0	2.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
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: P859259

CATALOG NUMBER: LX4C60D010 EX4C609050 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6	2678.6
2.5°	2660.0	2660.0	2660.0	2658.0	2659.0	2659.0	2658.0	2658.0
5°	2631.2	2630.2	2628.1	2628.1	2626.1	2628.1	2627.1	2628.1
7.5°	2592.1	2592.1	2589.0	2589.0	2587.9	2586.9	2585.9	2586.9
10°	2545.7	2545.7	2543.6	2542.6	2543.6	2539.5	2539.5	2538.5
12.5°	2494.2	2492.1	2490.1	2491.1	2490.1	2487.0	2485.9	2487.0
15°	2434.4	2431.3	2432.4	2429.3	2429.3	2428.2	2430.3	2430.3
17.5°	2368.5	2366.4	2364.4	2365.4	2363.3	2364.4	2363.3	2362.3
20°	2295.3	2294.3	2294.3	2290.2	2291.2	2290.2	2291.2	2294.3
22.5°	2210.9	2209.8	2210.9	2207.8	2209.8	2209.8	2212.9	2212.9
25°	2118.1	2117.1	2119.2	2120.2	2121.2	2124.3	2121.2	2122.3
27.5°	2015.1	2018.2	2021.3	2022.3	2026.5	2023.4	2021.3	2024.4
30°	1911.1	1911.1	1910.0	1914.2	1917.3	1920.3	1915.2	1915.2
32.5°	1791.6	1796.7	1796.7	1797.7	1800.8	1800.8	1800.8	1805.0
35°	1677.2	1680.3	1681.3	1677.2	1679.3	1678.2	1685.5	1685.5
37.5°	1549.5	1549.5	1550.5	1557.7	1557.7	1554.6	1556.7	1556.7
40°	1427.9	1428.9	1424.8	1426.9	1432.0	1430.0	1432.0	1434.1
42.5°	1295.0	1302.2	1298.1	1300.1	1299.1	1300.1	1301.2	1301.2
45°	1168.3	1170.3	1170.3	1171.4	1173.4	1175.5	1169.3	1168.3
47.5°	1044.7	1045.7	1048.8	1043.6	1049.8	1043.6	1049.8	1042.6
50°	920.0	924.1	921.0	923.1	920.0	920.0	919.0	917.9
52.5°	801.5	800.5	800.5	799.5	799.5	801.5	799.5	802.5
55°	683.0	684.1	682.0	681.0	680.0	683.0	680.0	677.9
57.5°	570.7	572.8	568.7	570.7	563.5	566.6	567.7	568.7
60°	466.7	463.6	463.6	459.5	459.5	462.6	458.5	458.5
62.5°	361.6	363.7	360.6	364.7	364.7	368.8	366.8	368.8
65°	277.1	278.2	279.2	279.2	279.2	285.4	283.3	280.2
67.5°	209.1	210.2	211.2	210.2	213.3	211.2	211.2	212.2
70°	151.4	152.5	153.5	153.5	152.5	153.5	153.5	153.5
72.5°	105.1	106.1	105.1	106.1	107.1	106.1	106.1	107.1
75°	69.0	69.0	68.0	68.0	68.0	68.0	69.0	68.0
77.5°	40.2	41.2	40.2	41.2	41.2	41.2	41.2	41.2
80°	23.7	23.7	23.7	22.7	23.7	23.7	23.7	22.7
82.5°	12.4	12.4	11.3	11.3	12.4	12.4	12.4	12.4
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)