

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: P879473

Luminaire Tested: **LD4C65D010 EU4659035 4LBLDWWLI**

Issue Date: 10/1/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P879473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/1/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C65D010 EU4659035 4LBLDWWLI  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

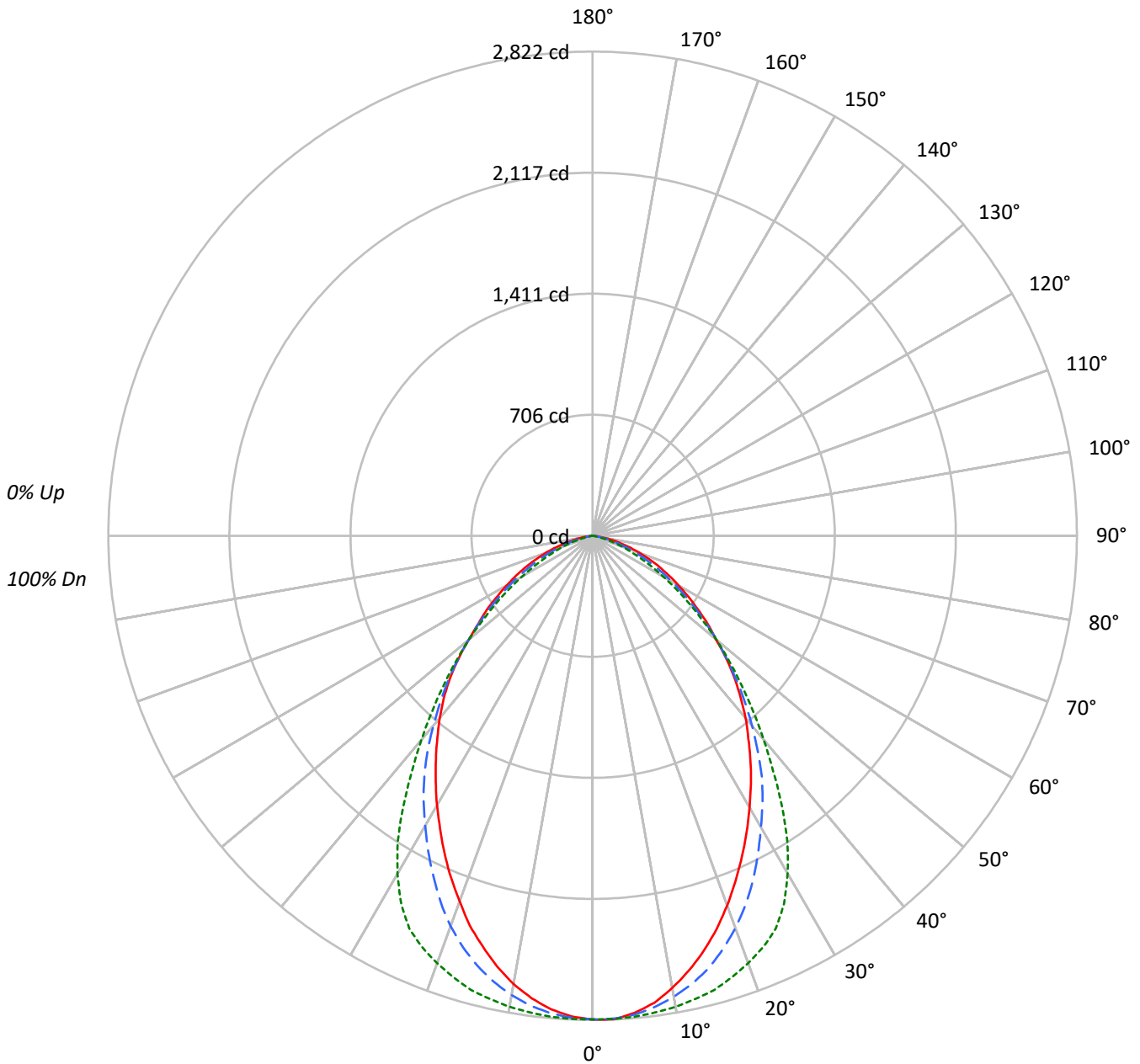
Lumens per Lamp: N/A  
Luminaire Lumens: 5178.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (Ain): 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	93	92	90	88			88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32			32

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

	0°	90°	180°
0°	346373	346373	346373
5°	344317	346919	341715
10°	333827	347774	330933
15°	318490	348531	315005
20°	299678	346547	296370
25°	279132	342450	276842
30°	259361	322474	257261
35°	240517	288435	238777
40°	222358	248740	222182
45°	202599	212312	204250
50°	178951	179544	179964
55°	160342	146783	161027
60°	141699	116588	141969
65°	124738	88895	123517
70°	103378	63614	103378
75°	80599	36550	77561
80°	52212	8985	49948
85°	19311	2960	14801



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.7	5.1
10°-20°	732.2	14.1
20°-30°	1023.6	19.8
30°-40°	1079.7	20.9
40°-50°	918.6	17.7
50°-60°	648.2	12.5
60°-70°	367.4	7.1
70°-80°	131.1	2.5
80°-90°	12.6	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°	2020.5	39.0
0°-40°	3100.2	59.9
0°-60°	4666.9	90.1
0°-90°	5178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5178.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2819	2819	2819	2819	2819	
5°	2792	2802	2813	2793	2771	263
15°	2504	2610	2740	2595	2477	702
25°	2059	2213	2526	2193	2042	947
35°	1604	1720	1923	1710	1592	1003
45°	1166	1183	1222	1188	1176	897
55°	749	723	685	725	752	672
65°	429	368	306	369	425	425
75°	170	116	77	114	163	184
85°	14	5	2	5	10	24
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°	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4
2.5°	2821.5	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2816.2	2817.3	2817.3
5°	2792.0	2789.9	2788.8	2788.8	2788.8	2788.8	2789.9	2794.1	2796.2	2799.4	2801.5
7.5°	2745.6	2741.4	2743.5	2743.5	2745.6	2747.7	2750.9	2755.1	2761.4	2765.6	2770.9
10°	2676.0	2671.8	2677.0	2679.2	2685.5	2688.6	2693.9	2700.2	2712.9	2719.2	2727.7
12.5°	2594.8	2592.7	2594.8	2603.2	2609.6	2613.8	2620.1	2633.8	2646.5	2660.2	2674.9
15°	2504.1	2498.9	2502.0	2512.6	2523.1	2530.5	2535.8	2553.7	2570.6	2591.6	2609.6
17.5°	2402.9	2395.5	2404.0	2412.4	2426.1	2432.4	2439.8	2459.8	2483.0	2506.2	2526.3
20°	2292.2	2290.1	2295.4	2307.0	2320.7	2329.1	2335.4	2357.6	2377.6	2409.2	2432.4
22.5°	2177.3	2179.4	2183.6	2196.3	2205.7	2217.3	2226.8	2246.9	2270.1	2299.6	2329.1
25°	2059.2	2062.4	2069.7	2078.2	2094.0	2100.3	2111.9	2133.0	2153.0	2180.4	2213.1
27.5°	1945.3	1946.4	1954.8	1959.0	1973.8	1987.5	1992.8	2014.9	2038.1	2059.2	2087.7
30°	1828.3	1831.4	1836.7	1848.3	1863.1	1868.3	1874.7	1894.7	1912.6	1939.0	1961.1
32.5°	1716.5	1714.4	1720.7	1727.1	1743.9	1753.4	1756.6	1779.8	1795.6	1822.0	1843.0
35°	1603.7	1598.4	1607.9	1614.2	1629.0	1637.4	1641.7	1659.6	1674.3	1696.5	1719.7
37.5°	1490.9	1495.1	1499.3	1504.6	1512.0	1514.1	1526.7	1530.9	1549.9	1566.8	1579.4
40°	1386.5	1384.4	1382.3	1387.6	1397.0	1401.3	1402.3	1413.9	1418.1	1435.0	1444.5
42.5°	1274.7	1275.8	1274.7	1275.8	1281.1	1281.1	1284.2	1291.6	1294.8	1300.0	1311.6
45°	1166.1	1166.1	1163.0	1164.0	1165.1	1164.0	1165.1	1168.2	1174.6	1174.6	1183.0
47.5°	1053.3	1051.2	1055.4	1052.3	1050.2	1049.1	1052.3	1049.1	1055.4	1055.4	1057.5
50°	936.3	936.3	941.6	940.5	942.6	938.4	939.4	939.4	940.5	939.4	943.7
52.5°	845.6	843.5	841.4	836.1	838.2	834.0	834.0	835.1	831.9	830.8	825.6
55°	748.6	750.7	747.5	745.4	745.4	741.2	740.2	733.8	729.6	726.5	723.3
57.5°	661.1	663.2	662.1	656.9	650.5	651.6	649.5	643.2	633.7	627.4	622.1
60°	576.7	578.9	576.7	571.5	569.4	565.1	564.1	555.7	548.3	539.8	533.5
62.5°	500.8	500.8	499.8	492.4	487.1	488.2	482.9	476.6	467.1	455.5	446.0
65°	429.1	428.1	422.8	419.6	415.4	410.2	407.0	397.5	390.1	380.6	368.0
67.5°	357.4	354.3	352.2	349.0	339.5	338.5	334.2	325.8	315.3	307.9	297.3
70°	287.8	286.8	282.6	282.6	275.2	272.0	265.7	258.3	248.8	238.3	229.9
72.5°	227.7	225.6	221.4	217.2	210.9	208.8	203.5	196.1	187.7	177.1	166.6
75°	169.8	167.6	166.6	161.3	156.0	150.8	148.7	141.3	132.9	125.5	116.0
77.5°	119.1	117.0	113.9	110.7	107.5	104.4	101.2	94.9	87.5	81.2	72.8
80°	73.8	71.7	69.6	68.5	65.4	64.3	60.1	56.9	50.6	46.4	41.1
82.5°	38.0	38.0	35.8	34.8	32.7	31.6	30.6	27.4	24.3	21.1	17.9
85°	13.7	13.7	12.7	11.6	11.6	10.5	10.5	9.5	7.4	7.4	5.3
87.5°	1.1	1.1	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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°	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4
2.5°	2818.3	2817.3	2818.3	2818.3	2819.4	2819.4	2819.4	2818.3	2819.4	2818.3	2818.3
5°	2801.5	2804.6	2806.7	2808.8	2809.9	2811.0	2811.0	2812.0	2813.1	2813.1	2812.0
7.5°	2775.1	2781.4	2787.8	2792.0	2794.1	2796.2	2799.4	2801.5	2803.6	2802.5	2801.5
10°	2740.3	2750.9	2759.3	2767.7	2771.9	2775.1	2780.4	2784.6	2786.7	2787.8	2784.6
12.5°	2690.8	2705.5	2719.2	2732.9	2739.3	2743.5	2754.0	2761.4	2765.6	2765.6	2762.5
15°	2628.5	2649.6	2669.7	2687.6	2698.1	2704.5	2720.3	2730.8	2737.1	2740.3	2735.0
17.5°	2553.7	2577.9	2602.2	2625.4	2635.9	2645.4	2667.6	2682.3	2696.0	2698.1	2691.8
20°	2457.7	2488.3	2515.7	2544.2	2555.8	2570.6	2595.9	2620.1	2641.2	2650.7	2632.8
22.5°	2350.2	2383.9	2409.2	2444.0	2459.8	2475.7	2508.4	2538.9	2575.8	2595.9	2564.2
25°	2238.4	2266.9	2297.5	2331.2	2353.4	2370.2	2408.2	2447.2	2496.8	2526.3	2482.0
27.5°	2118.2	2143.5	2180.4	2217.3	2234.2	2255.3	2300.6	2342.8	2390.3	2416.6	2383.9
30°	1993.8	2025.4	2060.2	2094.0	2118.2	2138.3	2175.2	2211.0	2251.1	2273.2	2249.0
32.5°	1870.5	1901.0	1930.6	1967.5	1981.2	1999.1	2031.8	2062.4	2092.9	2113.0	2084.5
35°	1740.8	1768.2	1795.6	1820.9	1827.2	1848.3	1874.7	1892.6	1907.4	1923.2	1904.2
37.5°	1599.5	1620.6	1634.3	1661.7	1672.2	1675.4	1696.5	1709.1	1725.0	1728.1	1727.1
40°	1456.1	1475.1	1486.7	1503.5	1512.0	1512.0	1526.7	1538.3	1549.9	1551.0	1549.9
42.5°	1322.2	1331.7	1341.2	1351.7	1349.6	1362.2	1368.6	1373.8	1382.3	1382.3	1384.4
45°	1187.2	1194.6	1203.0	1205.1	1213.6	1213.6	1218.9	1221.0	1225.2	1222.0	1217.8
47.5°	1061.8	1064.9	1066.0	1075.5	1077.6	1070.2	1076.5	1077.6	1076.5	1076.5	1074.4
50°	942.6	944.7	943.7	940.5	941.6	944.7	941.6	937.3	939.4	939.4	941.6
52.5°	826.6	822.4	820.3	820.3	816.1	816.1	810.8	808.7	807.6	803.4	808.7
55°	720.1	713.8	704.3	702.2	699.0	698.0	691.7	686.4	684.3	685.3	684.3
57.5°	617.9	608.4	602.0	599.9	596.8	590.4	583.1	577.8	576.7	574.6	574.6
60°	525.1	514.5	505.0	495.6	496.6	492.4	485.0	481.8	478.7	474.5	477.6
62.5°	440.7	429.1	418.6	409.1	402.8	399.6	394.3	389.1	385.9	382.7	387.0
65°	357.4	347.9	336.3	326.9	323.7	320.5	315.3	306.8	305.8	305.8	307.9
67.5°	282.6	272.0	261.5	255.2	250.9	246.7	244.6	240.4	237.2	235.1	236.2
70°	217.2	206.7	198.2	191.9	188.7	187.7	180.3	179.2	178.2	177.1	176.1
72.5°	158.2	149.7	142.3	138.1	133.9	130.7	128.6	125.5	124.4	124.4	124.4
75°	108.6	102.3	93.8	88.6	86.5	83.3	80.1	78.0	75.9	77.0	77.0
77.5°	65.4	59.0	53.8	49.6	48.5	45.3	42.2	40.1	36.9	36.9	38.0
80°	35.8	30.6	26.4	23.2	21.1	20.0	16.9	15.8	13.7	12.7	12.7
82.5°	15.8	12.7	10.5	9.5	8.4	7.4	6.3	5.3	5.3	4.2	5.3
85°	5.3	4.2	3.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	1.1	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4
2.5°	2817.3	2817.3	2816.2	2816.2	2816.2	2814.1	2814.1	2813.1	2812.0	2811.0	2808.8
5°	2809.9	2808.8	2806.7	2805.7	2804.6	2801.5	2798.3	2796.2	2793.0	2788.8	2786.7
7.5°	2799.4	2796.2	2792.0	2789.9	2786.7	2779.3	2774.1	2768.8	2763.5	2756.1	2747.7
10°	2781.4	2775.1	2768.8	2764.6	2759.3	2749.8	2739.3	2730.8	2719.2	2708.7	2697.1
12.5°	2756.1	2748.7	2736.1	2729.8	2723.4	2709.7	2696.0	2678.1	2662.3	2647.5	2633.8
15°	2724.5	2710.8	2696.0	2687.6	2678.1	2656.0	2634.9	2615.9	2594.8	2576.9	2554.7
17.5°	2678.1	2658.1	2637.0	2627.5	2614.8	2589.5	2564.2	2537.9	2513.6	2491.5	2464.1
20°	2608.5	2586.4	2559.0	2544.2	2533.7	2499.9	2475.7	2446.1	2420.8	2393.4	2362.8
22.5°	2527.3	2496.8	2466.2	2445.1	2433.5	2399.8	2367.1	2340.7	2313.3	2281.7	2259.5
25°	2435.6	2397.6	2360.7	2339.7	2321.7	2285.9	2254.2	2226.8	2193.1	2165.7	2143.5
27.5°	2332.3	2289.0	2245.8	2224.7	2207.9	2168.8	2135.1	2106.6	2073.9	2049.7	2026.5
30°	2208.9	2169.9	2128.8	2111.9	2091.9	2051.8	2012.8	1987.5	1951.6	1926.3	1901.0
32.5°	2055.0	2029.7	1997.0	1973.8	1963.2	1926.3	1893.7	1863.1	1832.5	1812.5	1787.2
35°	1886.3	1864.1	1836.7	1824.1	1810.4	1787.2	1760.8	1734.4	1710.2	1691.2	1668.0
37.5°	1715.5	1693.3	1676.5	1662.7	1654.3	1633.2	1617.4	1597.4	1580.5	1562.6	1549.9
40°	1538.3	1532.0	1514.1	1507.8	1505.6	1482.4	1468.7	1452.9	1442.4	1431.8	1424.5
42.5°	1381.2	1370.7	1357.0	1358.0	1351.7	1339.1	1329.6	1319.0	1311.6	1306.4	1299.0
45°	1226.2	1217.8	1211.5	1216.7	1206.2	1202.0	1194.6	1193.5	1188.3	1178.8	1175.6
47.5°	1078.6	1077.6	1078.6	1075.5	1073.4	1071.2	1072.3	1067.0	1061.8	1058.6	1054.4
50°	943.7	944.7	946.8	950.0	942.6	945.8	944.7	943.7	943.7	940.5	942.6
52.5°	812.9	814.0	816.1	819.2	820.3	820.3	823.5	825.6	829.8	835.1	835.1
55°	689.6	696.9	701.2	706.4	703.3	709.6	712.8	722.2	725.4	725.4	729.6
57.5°	579.9	587.3	590.4	596.8	598.9	604.2	612.6	617.9	625.2	631.6	637.9
60°	479.7	482.9	491.3	500.8	498.7	511.4	517.7	526.1	535.6	539.8	548.3
62.5°	390.1	394.3	400.7	403.8	411.2	417.5	432.3	440.7	449.2	459.7	468.1
65°	310.0	314.2	320.5	326.9	330.0	339.5	346.9	361.6	369.0	380.6	390.1
67.5°	237.2	243.6	248.8	253.0	255.2	264.6	276.2	282.6	296.3	307.9	315.3
70°	177.1	182.4	188.7	187.7	191.9	199.3	207.7	217.2	227.7	238.3	246.7
72.5°	123.4	128.6	132.9	133.9	138.1	143.4	149.7	157.1	165.5	176.1	187.7
75°	78.0	79.1	83.3	85.4	87.5	93.8	99.1	106.5	113.9	122.3	129.7
77.5°	39.0	42.2	44.3	46.4	47.4	52.7	58.0	64.3	70.6	79.1	86.5
80°	14.8	15.8	19.0	20.0	22.1	25.3	29.5	32.7	38.0	44.3	48.5
82.5°	5.3	6.3	7.4	7.4	8.4	10.5	11.6	14.8	17.9	20.0	22.1
85°	2.1	2.1	2.1	2.1	2.1	3.2	3.2	4.2	5.3	6.3	6.3
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: P879473

CATALOG NUMBER: LD4C65D010 EU4659035 4LBLDWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4	2819.4
2.5°	2807.8	2807.8	2806.7	2805.7	2805.7	2805.7	2804.6	2804.6
5°	2782.5	2779.3	2778.3	2776.2	2775.1	2774.1	2770.9	2770.9
7.5°	2741.4	2737.1	2734.0	2730.8	2726.6	2723.4	2723.4	2719.2
10°	2686.5	2678.1	2673.9	2669.7	2664.4	2658.1	2656.0	2652.8
12.5°	2620.1	2603.2	2599.0	2591.6	2583.2	2579.0	2571.6	2571.6
15°	2537.9	2519.9	2510.5	2506.2	2495.7	2488.3	2485.2	2476.7
17.5°	2441.9	2428.2	2413.5	2407.1	2395.5	2386.0	2381.8	2380.8
20°	2344.9	2322.8	2313.3	2303.8	2290.1	2281.7	2275.3	2266.9
22.5°	2233.2	2213.1	2199.4	2193.1	2181.5	2166.7	2156.2	2156.2
25°	2115.1	2097.1	2089.8	2076.1	2062.4	2057.1	2044.4	2042.3
27.5°	2002.3	1984.3	1969.6	1962.2	1946.4	1939.0	1928.4	1924.2
30°	1885.2	1864.1	1853.6	1852.5	1833.6	1826.2	1817.7	1813.5
32.5°	1768.2	1750.3	1739.7	1733.4	1725.0	1712.3	1704.9	1700.7
35°	1652.2	1640.6	1631.1	1623.7	1610.0	1603.7	1597.4	1592.1
37.5°	1530.9	1520.4	1516.2	1509.9	1503.5	1491.9	1489.8	1485.6
40°	1413.9	1400.2	1400.2	1396.0	1389.7	1388.6	1385.4	1385.4
42.5°	1291.6	1285.3	1284.2	1285.3	1281.1	1279.0	1275.8	1283.2
45°	1170.4	1173.5	1168.2	1169.3	1167.2	1171.4	1171.4	1175.6
47.5°	1058.6	1054.4	1056.5	1058.6	1061.8	1061.8	1060.7	1059.6
50°	939.4	943.7	947.9	942.6	944.7	945.8	940.5	941.6
52.5°	837.2	838.2	841.4	838.2	841.4	840.3	842.4	838.2
55°	738.1	738.1	742.3	743.3	744.4	747.5	748.6	751.8
57.5°	642.1	647.4	652.7	651.6	655.8	660.0	656.9	660.0
60°	558.8	563.0	568.3	570.4	573.6	575.7	575.7	577.8
62.5°	474.5	482.9	487.1	491.3	491.3	495.6	499.8	500.8
65°	398.6	408.0	411.2	414.4	416.5	420.7	426.0	424.9
67.5°	326.9	333.2	337.4	339.5	345.8	347.9	352.2	356.4
70°	256.2	264.6	267.8	272.0	277.3	281.5	285.7	287.8
72.5°	196.1	202.4	204.5	208.8	214.0	218.3	220.4	223.5
75°	137.1	147.6	148.7	151.8	156.0	161.3	164.5	163.4
77.5°	90.7	98.1	99.1	103.3	107.5	111.8	112.8	113.9
80°	53.8	58.0	59.0	61.2	64.3	66.4	68.5	70.6
82.5°	25.3	27.4	29.5	29.5	31.6	33.7	33.7	34.8
85°	8.4	8.4	9.5	9.5	10.5	10.5	11.6	10.5
87.5°	1.1	1.1	0.0	1.1	1.1	1.1	1.1	1.1
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)