

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: P879471

Luminaire Tested: **LD4C65D010 EU4659030 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: P879471  
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 EU4659030 4LBLDWWLI  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

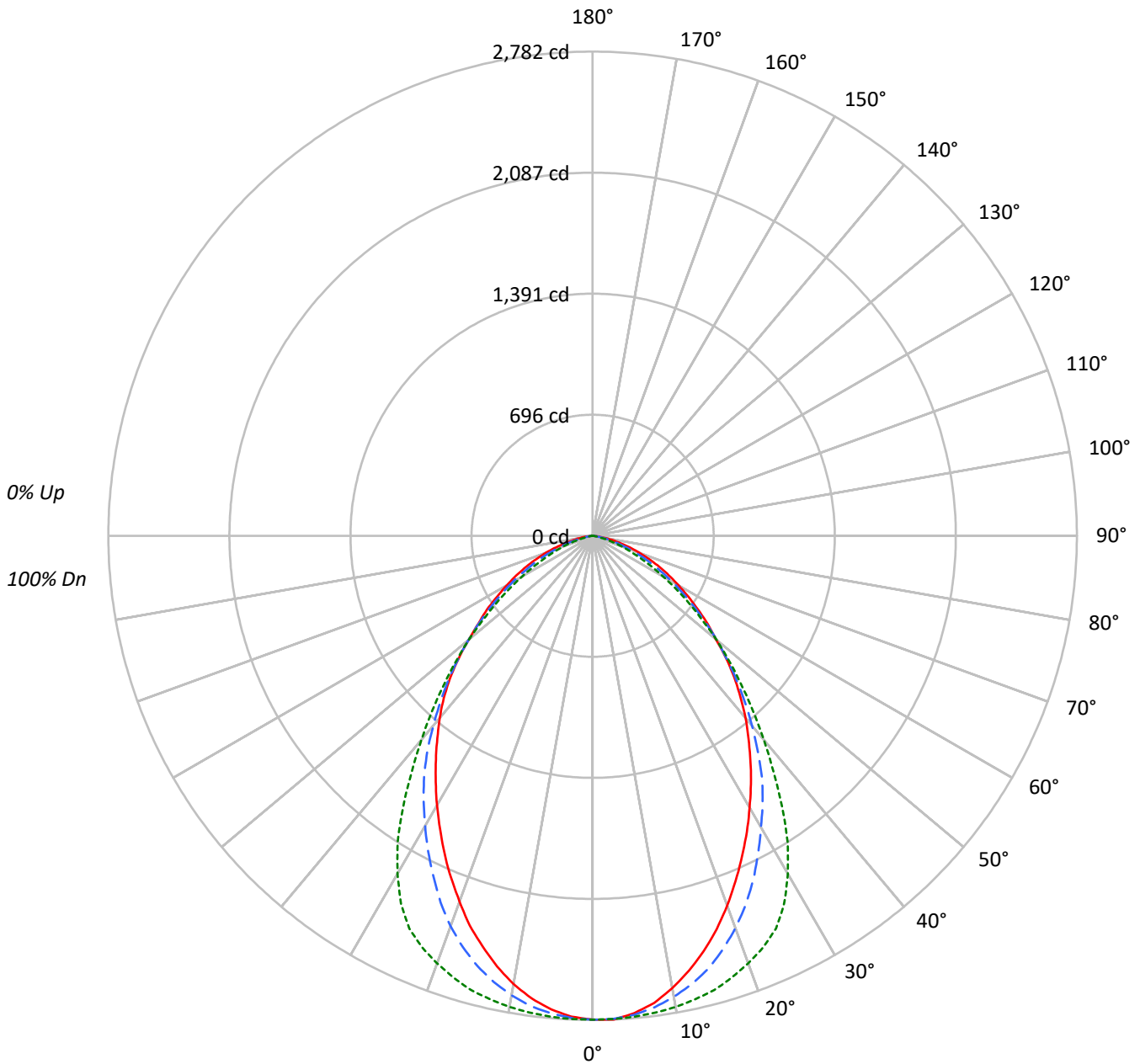
Lumens per Lamp: N/A  
Luminaire Lumens: 5106.0 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

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

	0°	90°	180°
0°	341557	341557	341557
5°	339532	342085	336967
10°	329187	342934	326330
15°	314064	343685	310629
20°	295507	341723	292252
25°	275256	337678	272992
30°	255758	317991	253686
35°	237173	284415	235463
40°	219263	245276	219103
45°	199785	209358	201418
50°	176467	177059	177461
55°	158114	144749	158778
60°	139734	114966	140004
65°	123023	87645	121802
70°	101941	62752	101941
75°	79460	36027	76517
80°	51505	8844	49312
85°	19029	2960	14660



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.0	5.1
10°-20°	722.1	14.1
20°-30°	1009.4	19.8
30°-40°	1064.7	20.9
40°-50°	905.8	17.7
50°-60°	639.2	12.5
60°-70°	362.3	7.1
70°-80°	129.3	2.5
80°-90°	12.4	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°	1992.4	39.0
0°-40°	3057.1	59.9
0°-60°	4602.0	90.1
0°-90°	5106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5106.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2780	2780	2780	2780	2780	
5°	2753	2762	2774	2754	2732	259
15°	2469	2573	2702	2559	2442	692
25°	2031	2182	2491	2163	2014	934
35°	1581	1696	1896	1686	1570	989
45°	1150	1167	1205	1172	1159	884
55°	738	713	676	715	741	663
65°	423	363	302	364	419	419
75°	167	114	76	112	161	181
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°	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2
2.5°	2782.3	2777.1	2777.1	2777.1	2777.1	2777.1	2777.1	2777.1	2777.1	2778.1	2778.1
5°	2753.2	2751.1	2750.0	2750.0	2750.0	2750.0	2751.1	2755.2	2757.3	2760.4	2762.5
7.5°	2707.4	2703.2	2705.3	2705.3	2707.4	2709.5	2712.6	2716.8	2723.0	2727.2	2732.4
10°	2638.8	2634.6	2639.8	2641.9	2648.1	2651.3	2656.5	2662.7	2675.2	2681.4	2689.7
12.5°	2558.7	2556.6	2558.7	2567.0	2573.3	2577.4	2583.7	2597.2	2609.7	2623.2	2637.7
15°	2469.3	2464.1	2467.2	2477.6	2488.0	2495.3	2500.5	2518.2	2534.8	2555.6	2573.3
17.5°	2369.5	2362.2	2370.5	2378.9	2392.4	2398.6	2405.9	2425.6	2448.5	2471.4	2491.1
20°	2260.3	2258.3	2263.5	2274.9	2288.4	2296.7	2303.0	2324.8	2344.5	2375.7	2398.6
22.5°	2147.0	2149.1	2153.2	2165.7	2175.1	2186.5	2195.9	2215.6	2238.5	2267.6	2296.7
25°	2030.6	2033.7	2041.0	2049.3	2064.9	2071.1	2082.5	2103.3	2123.1	2150.1	2182.4
27.5°	1918.3	1919.3	1927.6	1931.8	1946.3	1959.9	1965.1	1986.9	2009.8	2030.6	2058.6
30°	1802.9	1806.0	1811.2	1822.6	1837.2	1842.4	1848.6	1868.4	1886.0	1912.0	1933.9
32.5°	1692.6	1690.6	1696.8	1703.0	1719.7	1729.0	1732.2	1755.0	1770.6	1796.6	1817.4
35°	1581.4	1576.2	1585.6	1591.8	1606.4	1614.7	1618.8	1636.5	1651.1	1672.9	1695.8
37.5°	1470.2	1474.3	1478.5	1483.7	1490.9	1493.0	1505.5	1509.7	1528.4	1545.0	1557.5
40°	1367.2	1365.1	1363.1	1368.3	1377.6	1381.8	1382.8	1394.3	1398.4	1415.0	1424.4
42.5°	1257.0	1258.1	1257.0	1258.1	1263.2	1263.2	1266.4	1273.6	1276.8	1282.0	1293.4
45°	1149.9	1149.9	1146.8	1147.8	1148.9	1147.8	1148.9	1152.0	1158.2	1158.2	1166.6
47.5°	1038.7	1036.6	1040.8	1037.6	1035.6	1034.5	1037.6	1034.5	1040.8	1040.8	1042.8
50°	923.3	923.3	928.5	927.4	929.5	925.3	926.4	926.4	927.4	926.4	930.5
52.5°	833.8	831.8	829.7	824.5	826.6	822.4	822.4	823.5	820.3	819.3	814.1
55°	738.2	740.3	737.2	735.1	735.1	730.9	729.9	723.6	719.5	716.4	713.2
57.5°	651.9	654.0	652.9	647.7	641.5	642.5	640.5	634.2	624.9	618.6	613.4
60°	568.7	570.8	568.7	563.5	561.4	557.3	556.2	547.9	540.6	532.3	526.1
62.5°	493.9	493.9	492.8	485.5	480.3	481.4	476.2	469.9	460.6	449.2	439.8
65°	423.2	422.1	416.9	413.8	409.6	404.4	401.3	392.0	384.7	375.3	362.9
67.5°	352.5	349.3	347.3	344.1	334.8	333.7	329.6	321.3	310.9	303.6	293.2
70°	283.8	282.8	278.6	278.6	271.4	268.2	262.0	254.7	245.4	235.0	226.7
72.5°	224.6	222.5	218.3	214.2	207.9	205.9	200.7	193.4	185.1	174.7	164.3
75°	167.4	165.3	164.3	159.1	153.9	148.7	146.6	139.3	131.0	123.7	114.4
77.5°	117.5	115.4	112.3	109.2	106.1	102.9	99.8	93.6	86.3	80.1	71.7
80°	72.8	70.7	68.6	67.6	64.5	63.4	59.3	56.1	49.9	45.7	40.5
82.5°	37.4	37.4	35.4	34.3	32.2	31.2	30.2	27.0	23.9	20.8	17.7
85°	13.5	13.5	12.5	11.4	11.4	10.4	10.4	9.4	7.3	7.3	5.2
87.5°	1.0	1.0	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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°	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2
2.5°	2779.1	2778.1	2779.1	2779.1	2780.2	2780.2	2780.2	2779.1	2780.2	2779.1	2779.1
5°	2762.5	2765.6	2767.7	2769.8	2770.8	2771.9	2771.9	2772.9	2773.9	2773.9	2772.9
7.5°	2736.5	2742.8	2749.0	2753.2	2755.2	2757.3	2760.4	2762.5	2764.6	2763.6	2762.5
10°	2702.2	2712.6	2720.9	2729.2	2733.4	2736.5	2741.7	2745.9	2748.0	2749.0	2745.9
12.5°	2653.3	2667.9	2681.4	2694.9	2701.2	2705.3	2715.7	2723.0	2727.2	2727.2	2724.0
15°	2592.0	2612.8	2632.5	2650.2	2660.6	2666.9	2682.5	2692.9	2699.1	2702.2	2697.0
17.5°	2518.2	2542.1	2566.0	2588.9	2599.3	2608.6	2630.5	2645.0	2658.5	2660.6	2654.4
20°	2423.6	2453.7	2480.7	2508.8	2520.3	2534.8	2559.8	2583.7	2604.5	2613.8	2596.2
22.5°	2317.5	2350.8	2375.7	2410.0	2425.6	2441.2	2473.5	2503.6	2540.0	2559.8	2528.6
25°	2207.3	2235.4	2265.5	2298.8	2320.6	2337.3	2374.7	2413.2	2462.0	2491.1	2447.5
27.5°	2088.8	2113.7	2150.1	2186.5	2203.1	2223.9	2268.6	2310.2	2357.0	2383.0	2350.8
30°	1966.1	1997.3	2031.6	2064.9	2088.8	2108.5	2144.9	2180.3	2219.8	2241.6	2217.7
32.5°	1844.4	1874.6	1903.7	1940.1	1953.6	1971.3	2003.5	2033.7	2063.8	2083.6	2055.5
35°	1716.6	1743.6	1770.6	1795.6	1801.8	1822.6	1848.6	1866.3	1880.8	1896.4	1877.7
37.5°	1577.2	1598.0	1611.6	1638.6	1649.0	1652.1	1672.9	1685.4	1701.0	1704.1	1703.0
40°	1435.8	1454.6	1466.0	1482.6	1490.9	1490.9	1505.5	1516.9	1528.4	1529.4	1528.4
42.5°	1303.8	1313.2	1322.5	1332.9	1330.8	1343.3	1349.5	1354.7	1363.1	1363.1	1365.1
45°	1170.7	1178.0	1186.3	1188.4	1196.7	1196.7	1201.9	1204.0	1208.1	1205.0	1200.9
47.5°	1047.0	1050.1	1051.1	1060.5	1062.6	1055.3	1061.5	1062.6	1061.5	1061.5	1059.5
50°	929.5	931.6	930.5	927.4	928.5	931.6	928.5	924.3	926.4	926.4	928.5
52.5°	815.1	811.0	808.9	808.9	804.7	804.7	799.5	797.5	796.4	792.3	797.5
55°	710.1	703.9	694.5	692.4	689.3	688.3	682.1	676.9	674.8	675.8	674.8
57.5°	609.3	599.9	593.7	591.6	588.5	582.2	575.0	569.8	568.7	566.6	566.6
60°	517.8	507.4	498.0	488.7	489.7	485.5	478.3	475.1	472.0	467.9	471.0
62.5°	434.6	423.2	412.8	403.4	397.2	394.1	388.9	383.7	380.5	377.4	381.6
65°	352.5	343.1	331.7	322.3	319.2	316.1	310.9	302.6	301.5	301.5	303.6
67.5°	278.6	268.2	257.8	251.6	247.5	243.3	241.2	237.1	233.9	231.9	232.9
70°	214.2	203.8	195.5	189.2	186.1	185.1	177.8	176.8	175.7	174.7	173.6
72.5°	156.0	147.6	140.4	136.2	132.0	128.9	126.8	123.7	122.7	122.7	122.7
75°	107.1	100.9	92.5	87.3	85.3	82.1	79.0	76.9	74.9	75.9	75.9
77.5°	64.5	58.2	53.0	48.9	47.8	44.7	41.6	39.5	36.4	36.4	37.4
80°	35.4	30.2	26.0	22.9	20.8	19.8	16.6	15.6	13.5	12.5	12.5
82.5°	15.6	12.5	10.4	9.4	8.3	7.3	6.2	5.2	5.2	4.2	5.2
85°	5.2	4.2	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	1.0	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2
2.5°	2778.1	2778.1	2777.1	2777.1	2777.1	2775.0	2775.0	2773.9	2772.9	2771.9	2769.8
5°	2770.8	2769.8	2767.7	2766.7	2765.6	2762.5	2759.4	2757.3	2754.2	2750.0	2748.0
7.5°	2760.4	2757.3	2753.2	2751.1	2748.0	2740.7	2735.5	2730.3	2725.1	2717.8	2709.5
10°	2742.8	2736.5	2730.3	2726.1	2720.9	2711.6	2701.2	2692.9	2681.4	2671.0	2659.6
12.5°	2717.8	2710.5	2698.0	2691.8	2685.6	2672.1	2658.5	2640.9	2625.3	2610.7	2597.2
15°	2686.6	2673.1	2658.5	2650.2	2640.9	2619.0	2598.2	2579.5	2558.7	2541.1	2519.2
17.5°	2640.9	2621.1	2600.3	2591.0	2578.5	2553.5	2528.6	2502.6	2478.7	2456.8	2429.8
20°	2572.2	2550.4	2523.4	2508.8	2498.4	2465.2	2441.2	2412.1	2387.2	2360.1	2330.0
22.5°	2492.2	2462.0	2431.9	2411.1	2399.7	2366.4	2334.2	2308.2	2281.1	2249.9	2228.1
25°	2401.7	2364.3	2327.9	2307.1	2289.4	2254.1	2222.9	2195.9	2162.6	2135.6	2113.7
27.5°	2299.8	2257.2	2214.6	2193.8	2177.2	2138.7	2105.4	2077.3	2045.1	2021.2	1998.3
30°	2178.2	2139.7	2099.2	2082.5	2062.8	2023.3	1984.8	1959.9	1924.5	1899.6	1874.6
32.5°	2026.4	2001.4	1969.2	1946.3	1935.9	1899.6	1867.3	1837.2	1807.0	1787.3	1762.3
35°	1860.0	1838.2	1811.2	1798.7	1785.2	1762.3	1736.3	1710.3	1686.4	1667.7	1644.8
37.5°	1691.6	1669.8	1653.1	1639.6	1631.3	1610.5	1594.9	1575.2	1558.5	1540.9	1528.4
40°	1516.9	1510.7	1493.0	1486.8	1484.7	1461.8	1448.3	1432.7	1422.3	1411.9	1404.6
42.5°	1362.0	1351.6	1338.1	1339.1	1332.9	1320.4	1311.1	1300.7	1293.4	1288.2	1280.9
45°	1209.2	1200.9	1194.6	1199.8	1189.4	1185.3	1178.0	1177.0	1171.8	1162.4	1159.3
47.5°	1063.6	1062.6	1063.6	1060.5	1058.4	1056.3	1057.4	1052.2	1047.0	1043.9	1039.7
50°	930.5	931.6	933.7	936.8	929.5	932.6	931.6	930.5	930.5	927.4	929.5
52.5°	801.6	802.7	804.7	807.9	808.9	808.9	812.0	814.1	818.3	823.5	823.5
55°	680.0	687.2	691.4	696.6	693.5	699.7	702.8	712.2	715.3	715.3	719.5
57.5°	571.8	579.1	582.2	588.5	590.6	595.8	604.1	609.3	616.5	622.8	629.0
60°	473.1	476.2	484.5	493.9	491.8	504.3	510.5	518.8	528.2	532.3	540.6
62.5°	384.7	388.9	395.1	398.2	405.5	411.7	426.3	434.6	442.9	453.3	461.6
65°	305.7	309.8	316.1	322.3	325.4	334.8	342.1	356.6	363.9	375.3	384.7
67.5°	233.9	240.2	245.4	249.5	251.6	261.0	272.4	278.6	292.2	303.6	310.9
70°	174.7	179.9	186.1	185.1	189.2	196.5	204.8	214.2	224.6	235.0	243.3
72.5°	121.6	126.8	131.0	132.0	136.2	141.4	147.6	154.9	163.2	173.6	185.1
75°	76.9	78.0	82.1	84.2	86.3	92.5	97.7	105.0	112.3	120.6	127.9
77.5°	38.5	41.6	43.7	45.7	46.8	52.0	57.2	63.4	69.7	78.0	85.3
80°	14.6	15.6	18.7	19.8	21.8	25.0	29.1	32.2	37.4	43.7	47.8
82.5°	5.2	6.2	7.3	7.3	8.3	10.4	11.4	14.6	17.7	19.8	21.8
85°	2.1	2.1	2.1	2.1	2.1	3.1	3.1	4.2	5.2	6.2	6.2
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: P879471

CATALOG NUMBER: LD4C65D010 EU4659030 4LBLDWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2
2.5°	2768.7	2768.7	2767.7	2766.7	2766.7	2766.7	2765.6	2765.6
5°	2743.8	2740.7	2739.6	2737.6	2736.5	2735.5	2732.4	2732.4
7.5°	2703.2	2699.1	2696.0	2692.9	2688.7	2685.6	2685.6	2681.4
10°	2649.2	2640.9	2636.7	2632.5	2627.3	2621.1	2619.0	2615.9
12.5°	2583.7	2567.0	2562.9	2555.6	2547.3	2543.1	2535.9	2535.9
15°	2502.6	2484.9	2475.6	2471.4	2461.0	2453.7	2450.6	2442.3
17.5°	2408.0	2394.5	2379.9	2373.7	2362.2	2352.9	2348.7	2347.7
20°	2312.3	2290.5	2281.1	2271.8	2258.3	2249.9	2243.7	2235.4
22.5°	2202.1	2182.4	2168.8	2162.6	2151.2	2136.6	2126.2	2126.2
25°	2085.7	2068.0	2060.7	2047.2	2033.7	2028.5	2016.0	2013.9
27.5°	1974.4	1956.7	1942.2	1934.9	1919.3	1912.0	1901.6	1897.5
30°	1859.0	1838.2	1827.8	1826.8	1808.1	1800.8	1792.5	1788.3
32.5°	1743.6	1725.9	1715.5	1709.3	1701.0	1688.5	1681.2	1677.1
35°	1629.2	1617.8	1608.4	1601.2	1587.6	1581.4	1575.2	1570.0
37.5°	1509.7	1499.3	1495.1	1488.9	1482.6	1471.2	1469.1	1465.0
40°	1394.3	1380.7	1380.7	1376.6	1370.3	1369.3	1366.2	1366.2
42.5°	1273.6	1267.4	1266.4	1267.4	1263.2	1261.2	1258.1	1265.3
45°	1154.1	1157.2	1152.0	1153.0	1151.0	1155.1	1155.1	1159.3
47.5°	1043.9	1039.7	1041.8	1043.9	1047.0	1047.0	1045.9	1044.9
50°	926.4	930.5	934.7	929.5	931.6	932.6	927.4	928.5
52.5°	825.5	826.6	829.7	826.6	829.7	828.6	830.7	826.6
55°	727.8	727.8	732.0	733.0	734.0	737.2	738.2	741.3
57.5°	633.2	638.4	643.6	642.5	646.7	650.9	647.7	650.9
60°	551.0	555.2	560.4	562.5	565.6	567.7	567.7	569.8
62.5°	467.9	476.2	480.3	484.5	484.5	488.7	492.8	493.9
65°	393.0	402.4	405.5	408.6	410.7	414.8	420.0	419.0
67.5°	322.3	328.5	332.7	334.8	341.0	343.1	347.3	351.4
70°	252.6	261.0	264.1	268.2	273.4	277.6	281.8	283.8
72.5°	193.4	199.6	201.7	205.9	211.1	215.2	217.3	220.4
75°	135.2	145.6	146.6	149.7	153.9	159.1	162.2	161.2
77.5°	89.4	96.7	97.7	101.9	106.1	110.2	111.2	112.3
80°	53.0	57.2	58.2	60.3	63.4	65.5	67.6	69.7
82.5°	25.0	27.0	29.1	29.1	31.2	33.3	33.3	34.3
85°	8.3	8.3	9.4	9.4	10.4	10.4	11.4	10.4
87.5°	1.0	1.0	0.0	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)