

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: P879475

Luminaire Tested: **LD4C65D010 EU4659040 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: P879475  
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 EU4659040 4LBLDWWLI  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

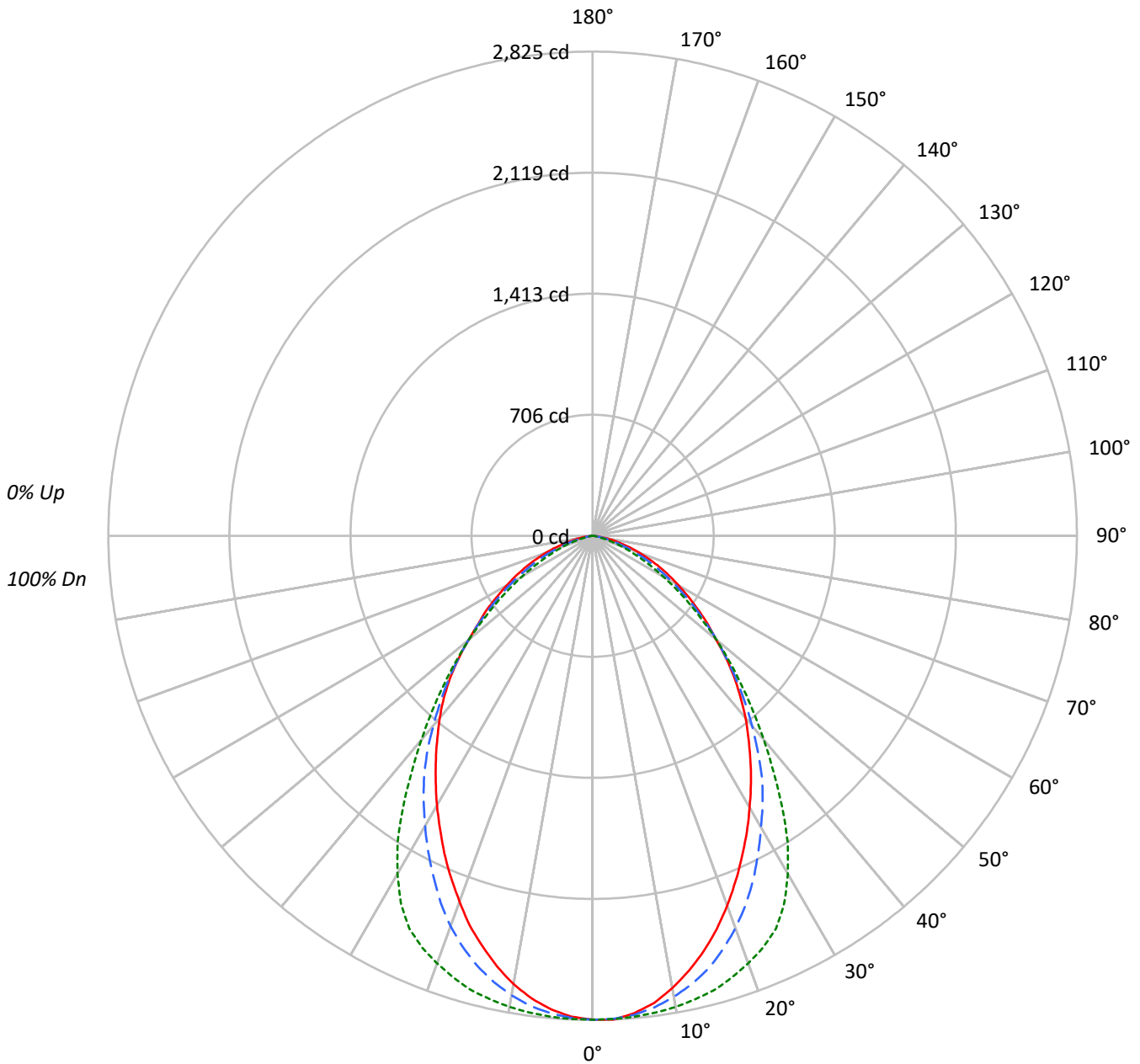
Lumens per Lamp: N/A  
Luminaire Lumens: 5185.0 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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			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°	346840	346840	346840
5°	344786	347388	342171
10°	334277	348236	331382
15°	318922	349002	315437
20°	300083	347018	296775
25°	279512	342910	277221
30°	259715	322914	257616
35°	240847	288825	239107
40°	222663	249077	222487
45°	202877	212607	204528
50°	179181	179792	180194
55°	160556	146998	161241
60°	141896	116735	142166
65°	124912	89011	123691
70°	103521	63722	103521
75°	80694	36597	77656
80°	52283	8985	50019
85°	19311	2960	14942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.0	5.1
10°-20°	733.2	14.1
20°-30°	1025.0	19.8
30°-40°	1081.2	20.9
40°-50°	919.8	17.7
50°-60°	649.0	12.5
60°-70°	367.9	7.1
70°-80°	131.3	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°	2023.2	39.0
0°-40°	3104.4	59.9
0°-60°	4673.3	90.1
0°-90°	5185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5185.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2823	2823	2823	2823	2823	
5°	2796	2805	2817	2797	2775	263
15°	2508	2613	2744	2598	2480	703
25°	2062	2216	2530	2196	2045	949
35°	1606	1722	1926	1712	1594	1004
45°	1168	1185	1224	1190	1177	898
55°	750	724	686	726	753	673
65°	430	368	306	370	426	425
75°	170	116	77	114	164	184
85°	14	5	2	5	11	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°	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2
2.5°	2825.3	2820.0	2820.0	2820.0	2820.0	2820.0	2820.0	2820.0	2820.0	2821.1	2821.1
5°	2795.8	2793.6	2792.6	2792.6	2792.6	2792.6	2793.6	2797.9	2800.0	2803.1	2805.3
7.5°	2749.3	2745.1	2747.2	2747.2	2749.3	2751.4	2754.6	2758.8	2765.1	2769.4	2774.6
10°	2679.6	2675.4	2680.7	2682.8	2689.1	2692.3	2697.6	2703.9	2716.6	2722.9	2731.3
12.5°	2598.3	2596.2	2598.3	2606.8	2613.1	2617.3	2623.7	2637.4	2650.1	2663.8	2678.6
15°	2507.5	2502.2	2505.4	2516.0	2526.5	2533.9	2539.2	2557.1	2574.0	2595.1	2613.1
17.5°	2406.2	2398.8	2407.2	2415.7	2429.4	2435.7	2443.1	2463.2	2486.4	2509.6	2529.7
20°	2295.3	2293.2	2298.5	2310.1	2323.8	2332.3	2338.6	2360.8	2380.8	2412.5	2435.7
22.5°	2180.2	2182.3	2186.6	2199.2	2208.7	2220.3	2229.8	2249.9	2273.1	2302.7	2332.3
25°	2062.0	2065.1	2072.5	2081.0	2096.8	2103.1	2114.8	2135.9	2155.9	2183.4	2216.1
27.5°	1947.9	1949.0	1957.4	1961.7	1976.5	1990.2	1995.5	2017.6	2040.9	2062.0	2090.5
30°	1830.8	1833.9	1839.2	1850.8	1865.6	1870.9	1877.2	1897.3	1915.2	1941.6	1963.8
32.5°	1718.8	1716.7	1723.1	1729.4	1746.3	1755.8	1759.0	1782.2	1798.0	1824.4	1845.5
35°	1605.9	1600.6	1610.1	1616.4	1631.2	1639.7	1643.9	1661.8	1676.6	1698.8	1722.0
37.5°	1492.9	1497.1	1501.3	1506.6	1514.0	1516.1	1528.8	1533.0	1552.0	1568.9	1581.6
40°	1388.4	1386.3	1384.2	1389.4	1398.9	1403.2	1404.2	1415.8	1420.0	1436.9	1446.4
42.5°	1276.5	1277.5	1276.5	1277.5	1282.8	1282.8	1286.0	1293.4	1296.5	1301.8	1313.4
45°	1167.7	1167.7	1164.5	1165.6	1166.7	1165.6	1166.7	1169.8	1176.2	1176.2	1184.6
47.5°	1054.7	1052.6	1056.9	1053.7	1051.6	1050.5	1053.7	1050.5	1056.9	1056.9	1059.0
50°	937.5	937.5	942.8	941.8	943.9	939.7	940.7	940.7	941.8	940.7	944.9
52.5°	846.7	844.6	842.5	837.2	839.4	835.1	835.1	836.2	833.0	832.0	826.7
55°	749.6	751.7	748.6	746.4	746.4	742.2	741.2	734.8	730.6	727.4	724.3
57.5°	662.0	664.1	663.0	657.8	651.4	652.5	650.4	644.0	634.5	628.2	622.9
60°	577.5	579.6	577.5	572.2	570.1	565.9	564.9	556.4	549.0	540.6	534.2
62.5°	501.5	501.5	500.4	493.1	487.8	488.8	483.6	477.2	467.7	456.1	446.6
65°	429.7	428.7	423.4	420.2	416.0	410.7	407.5	398.0	390.6	381.1	368.5
67.5°	357.9	354.7	352.6	349.5	340.0	338.9	334.7	326.2	315.7	308.3	297.7
70°	288.2	287.2	283.0	283.0	275.6	272.4	266.1	258.7	249.2	238.6	230.2
72.5°	228.1	225.9	221.7	217.5	211.2	209.0	203.8	196.4	187.9	177.4	166.8
75°	170.0	167.9	166.8	161.5	156.3	151.0	148.9	141.5	133.0	125.6	116.1
77.5°	119.3	117.2	114.0	110.9	107.7	104.5	101.4	95.0	87.6	81.3	72.9
80°	73.9	71.8	69.7	68.6	65.5	64.4	60.2	57.0	50.7	46.5	41.2
82.5°	38.0	38.0	35.9	34.8	32.7	31.7	30.6	27.5	24.3	21.1	17.9
85°	13.7	13.7	12.7	11.6	11.6	10.6	10.6	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°	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2
2.5°	2822.1	2821.1	2822.1	2822.1	2823.2	2823.2	2823.2	2822.1	2823.2	2822.1	2822.1
5°	2805.3	2808.4	2810.5	2812.6	2813.7	2814.8	2814.8	2815.8	2816.9	2816.9	2815.8
7.5°	2778.9	2785.2	2791.5	2795.8	2797.9	2800.0	2803.1	2805.3	2807.4	2806.3	2805.3
10°	2744.0	2754.6	2763.0	2771.5	2775.7	2778.9	2784.1	2788.4	2790.5	2791.5	2788.4
12.5°	2694.4	2709.2	2722.9	2736.6	2743.0	2747.2	2757.7	2765.1	2769.4	2769.4	2766.2
15°	2632.1	2653.2	2673.3	2691.2	2701.8	2708.1	2724.0	2734.5	2740.8	2744.0	2738.7
17.5°	2557.1	2581.4	2605.7	2628.9	2639.5	2649.0	2671.2	2685.9	2699.7	2701.8	2695.5
20°	2461.1	2491.7	2519.1	2547.6	2559.3	2574.0	2599.4	2623.7	2644.8	2654.3	2636.3
22.5°	2353.4	2387.2	2412.5	2447.3	2463.2	2479.0	2511.7	2542.4	2579.3	2599.4	2567.7
25°	2241.5	2270.0	2300.6	2334.4	2356.5	2373.4	2411.4	2450.5	2500.1	2529.7	2485.3
27.5°	2121.1	2146.4	2183.4	2220.3	2237.2	2258.4	2303.7	2346.0	2393.5	2419.9	2387.2
30°	1996.5	2028.2	2063.0	2096.8	2121.1	2141.2	2178.1	2214.0	2254.1	2276.3	2252.0
32.5°	1873.0	1903.6	1933.2	1970.1	1983.8	2001.8	2034.5	2065.1	2095.8	2115.8	2087.3
35°	1743.1	1770.6	1798.0	1823.4	1829.7	1850.8	1877.2	1895.2	1909.9	1925.8	1906.8
37.5°	1601.6	1622.8	1636.5	1663.9	1674.5	1677.7	1698.8	1711.4	1727.3	1730.5	1729.4
40°	1458.1	1477.1	1488.7	1505.6	1514.0	1514.0	1528.8	1540.4	1552.0	1553.1	1552.0
42.5°	1324.0	1333.5	1343.0	1353.5	1351.4	1364.1	1370.4	1375.7	1384.2	1384.2	1386.3
45°	1188.8	1196.2	1204.7	1206.8	1215.2	1215.2	1220.5	1222.6	1226.8	1223.7	1219.4
47.5°	1063.2	1066.4	1067.4	1076.9	1079.0	1071.6	1078.0	1079.0	1078.0	1078.0	1075.9
50°	943.9	946.0	944.9	941.8	942.8	946.0	942.8	938.6	940.7	940.7	942.8
52.5°	827.7	823.5	821.4	821.4	817.2	817.2	811.9	809.8	808.7	804.5	809.8
55°	721.1	714.8	705.3	703.2	700.0	698.9	692.6	687.3	685.2	686.3	685.2
57.5°	618.7	609.2	602.9	600.7	597.6	591.2	583.9	578.6	577.5	575.4	575.4
60°	525.8	515.2	505.7	496.2	497.3	493.1	485.7	482.5	479.3	475.1	478.3
62.5°	441.3	429.7	419.2	409.6	403.3	400.1	394.9	389.6	386.4	383.3	387.5
65°	357.9	348.4	336.8	327.3	324.1	321.0	315.7	307.2	306.2	306.2	308.3
67.5°	283.0	272.4	261.8	255.5	251.3	247.1	244.9	240.7	237.6	235.4	236.5
70°	217.5	206.9	198.5	192.2	189.0	187.9	180.5	179.5	178.4	177.4	176.3
72.5°	158.4	149.9	142.5	138.3	134.1	130.9	128.8	125.6	124.6	124.6	124.6
75°	108.7	102.4	94.0	88.7	86.6	83.4	80.2	78.1	76.0	77.1	77.1
77.5°	65.5	59.1	53.8	49.6	48.6	45.4	42.2	40.1	37.0	37.0	38.0
80°	35.9	30.6	26.4	23.2	21.1	20.1	16.9	15.8	13.7	12.7	12.7
82.5°	15.8	12.7	10.6	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°	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2
2.5°	2821.1	2821.1	2820.0	2820.0	2820.0	2817.9	2817.9	2816.9	2815.8	2814.8	2812.6
5°	2813.7	2812.6	2810.5	2809.5	2808.4	2805.3	2802.1	2800.0	2796.8	2792.6	2790.5
7.5°	2803.1	2800.0	2795.8	2793.6	2790.5	2783.1	2777.8	2772.5	2767.2	2759.9	2751.4
10°	2785.2	2778.9	2772.5	2768.3	2763.0	2753.5	2743.0	2734.5	2722.9	2712.3	2700.7
12.5°	2759.9	2752.5	2739.8	2733.5	2727.1	2713.4	2699.7	2681.7	2665.9	2651.1	2637.4
15°	2728.2	2714.5	2699.7	2691.2	2681.7	2659.6	2638.4	2619.4	2598.3	2580.4	2558.2
17.5°	2681.7	2661.7	2640.5	2631.0	2618.4	2593.0	2567.7	2541.3	2517.0	2494.8	2467.4
20°	2612.0	2589.9	2562.4	2547.6	2537.1	2503.3	2479.0	2449.4	2424.1	2396.7	2366.0
22.5°	2530.7	2500.1	2469.5	2448.4	2436.8	2403.0	2370.3	2343.9	2316.4	2284.7	2262.6
25°	2438.9	2400.9	2363.9	2342.8	2324.9	2289.0	2257.3	2229.8	2196.1	2168.6	2146.4
27.5°	2335.4	2292.1	2248.8	2227.7	2210.8	2171.8	2138.0	2109.5	2076.8	2052.5	2029.2
30°	2211.9	2172.8	2131.7	2114.8	2094.7	2054.6	2015.5	1990.2	1954.3	1928.9	1903.6
32.5°	2057.7	2032.4	1999.7	1976.5	1965.9	1928.9	1896.2	1865.6	1835.0	1814.9	1789.6
35°	1888.8	1866.6	1839.2	1826.5	1812.8	1789.6	1763.2	1736.8	1712.5	1693.5	1670.3
37.5°	1717.8	1695.6	1678.7	1665.0	1656.5	1635.4	1619.6	1599.5	1582.6	1564.7	1552.0
40°	1540.4	1534.1	1516.1	1509.8	1507.7	1484.5	1470.7	1454.9	1444.3	1433.8	1426.4
42.5°	1383.1	1372.5	1358.8	1359.9	1353.5	1340.9	1331.4	1320.8	1313.4	1308.1	1300.7
45°	1227.9	1219.4	1213.1	1218.4	1207.8	1203.6	1196.2	1195.2	1189.9	1180.4	1177.2
47.5°	1080.1	1079.0	1080.1	1076.9	1074.8	1072.7	1073.7	1068.5	1063.2	1060.0	1055.8
50°	944.9	946.0	948.1	951.3	943.9	947.1	946.0	944.9	944.9	941.8	943.9
52.5°	814.0	815.1	817.2	820.4	821.4	821.4	824.6	826.7	830.9	836.2	836.2
55°	690.5	697.9	702.1	707.4	704.2	710.6	713.7	723.2	726.4	726.4	730.6
57.5°	580.7	588.1	591.2	597.6	599.7	605.0	613.4	618.7	626.1	632.4	638.8
60°	480.4	483.6	492.0	501.5	499.4	512.1	518.4	526.8	536.3	540.6	549.0
62.5°	390.6	394.9	401.2	404.4	411.8	418.1	432.9	441.3	449.8	460.3	468.8
65°	310.4	314.6	321.0	327.3	330.5	340.0	347.4	362.1	369.5	381.1	390.6
67.5°	237.6	243.9	249.2	253.4	255.5	265.0	276.6	283.0	296.7	308.3	315.7
70°	177.4	182.7	189.0	187.9	192.2	199.5	208.0	217.5	228.1	238.6	247.1
72.5°	123.5	128.8	133.0	134.1	138.3	143.6	149.9	157.3	165.8	176.3	187.9
75°	78.1	79.2	83.4	85.5	87.6	94.0	99.2	106.6	114.0	122.5	129.9
77.5°	39.1	42.2	44.3	46.5	47.5	52.8	58.1	64.4	70.7	79.2	86.6
80°	14.8	15.8	19.0	20.1	22.2	25.3	29.6	32.7	38.0	44.3	48.6
82.5°	5.3	6.3	7.4	7.4	8.4	10.6	11.6	14.8	17.9	20.1	22.2
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: P879475

CATALOG NUMBER: LD4C65D010 EU4659040 4LBLDWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2	2823.2
2.5°	2811.6	2811.6	2810.5	2809.5	2809.5	2809.5	2808.4	2808.4
5°	2786.2	2783.1	2782.0	2779.9	2778.9	2777.8	2774.6	2774.6
7.5°	2745.1	2740.8	2737.7	2734.5	2730.3	2727.1	2727.1	2722.9
10°	2690.2	2681.7	2677.5	2673.3	2668.0	2661.7	2659.6	2656.4
12.5°	2623.7	2606.8	2602.5	2595.1	2586.7	2582.5	2575.1	2575.1
15°	2541.3	2523.4	2513.9	2509.6	2499.1	2491.7	2488.5	2480.1
17.5°	2445.2	2431.5	2416.7	2410.4	2398.8	2389.3	2385.0	2384.0
20°	2348.1	2325.9	2316.4	2306.9	2293.2	2284.7	2278.4	2270.0
22.5°	2236.2	2216.1	2202.4	2196.1	2184.4	2169.7	2159.1	2159.1
25°	2117.9	2100.0	2092.6	2078.9	2065.1	2059.9	2047.2	2045.1
27.5°	2005.0	1987.0	1972.2	1964.8	1949.0	1941.6	1931.1	1926.8
30°	1887.8	1866.6	1856.1	1855.0	1836.0	1828.6	1820.2	1816.0
32.5°	1770.6	1752.6	1742.1	1735.7	1727.3	1714.6	1707.2	1703.0
35°	1654.4	1642.8	1633.3	1625.9	1612.2	1605.9	1599.5	1594.3
37.5°	1533.0	1522.5	1518.2	1511.9	1505.6	1494.0	1491.8	1487.6
40°	1415.8	1402.1	1402.1	1397.9	1391.5	1390.5	1387.3	1387.3
42.5°	1293.4	1287.0	1286.0	1287.0	1282.8	1280.7	1277.5	1284.9
45°	1171.9	1175.1	1169.8	1170.9	1168.8	1173.0	1173.0	1177.2
47.5°	1060.0	1055.8	1057.9	1060.0	1063.2	1063.2	1062.1	1061.1
50°	940.7	944.9	949.2	943.9	946.0	947.1	941.8	942.8
52.5°	838.3	839.4	842.5	839.4	842.5	841.5	843.6	839.4
55°	739.1	739.1	743.3	744.3	745.4	748.6	749.6	752.8
57.5°	643.0	648.3	653.5	652.5	656.7	660.9	657.8	660.9
60°	559.6	563.8	569.1	571.2	574.4	576.5	576.5	578.6
62.5°	475.1	483.6	487.8	492.0	492.0	496.2	500.4	501.5
65°	399.1	408.6	411.8	414.9	417.0	421.3	426.5	425.5
67.5°	327.3	333.6	337.9	340.0	346.3	348.4	352.6	356.9
70°	256.6	265.0	268.2	272.4	277.7	281.9	286.1	288.2
72.5°	196.4	202.7	204.8	209.0	214.3	218.6	220.7	223.8
75°	137.3	147.8	148.9	152.0	156.3	161.5	164.7	163.6
77.5°	90.8	98.2	99.2	103.5	107.7	111.9	113.0	114.0
80°	53.8	58.1	59.1	61.2	64.4	66.5	68.6	70.7
82.5°	25.3	27.5	29.6	29.6	31.7	33.8	33.8	34.8
85°	8.4	8.4	9.5	9.5	10.6	10.6	11.6	10.6
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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)