

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: P879483

Luminaire Tested: **LD4C70D010 EU4709035 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: P879483  
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: LD4C70D010 EU4709035 4LBDWWLI  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBDWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

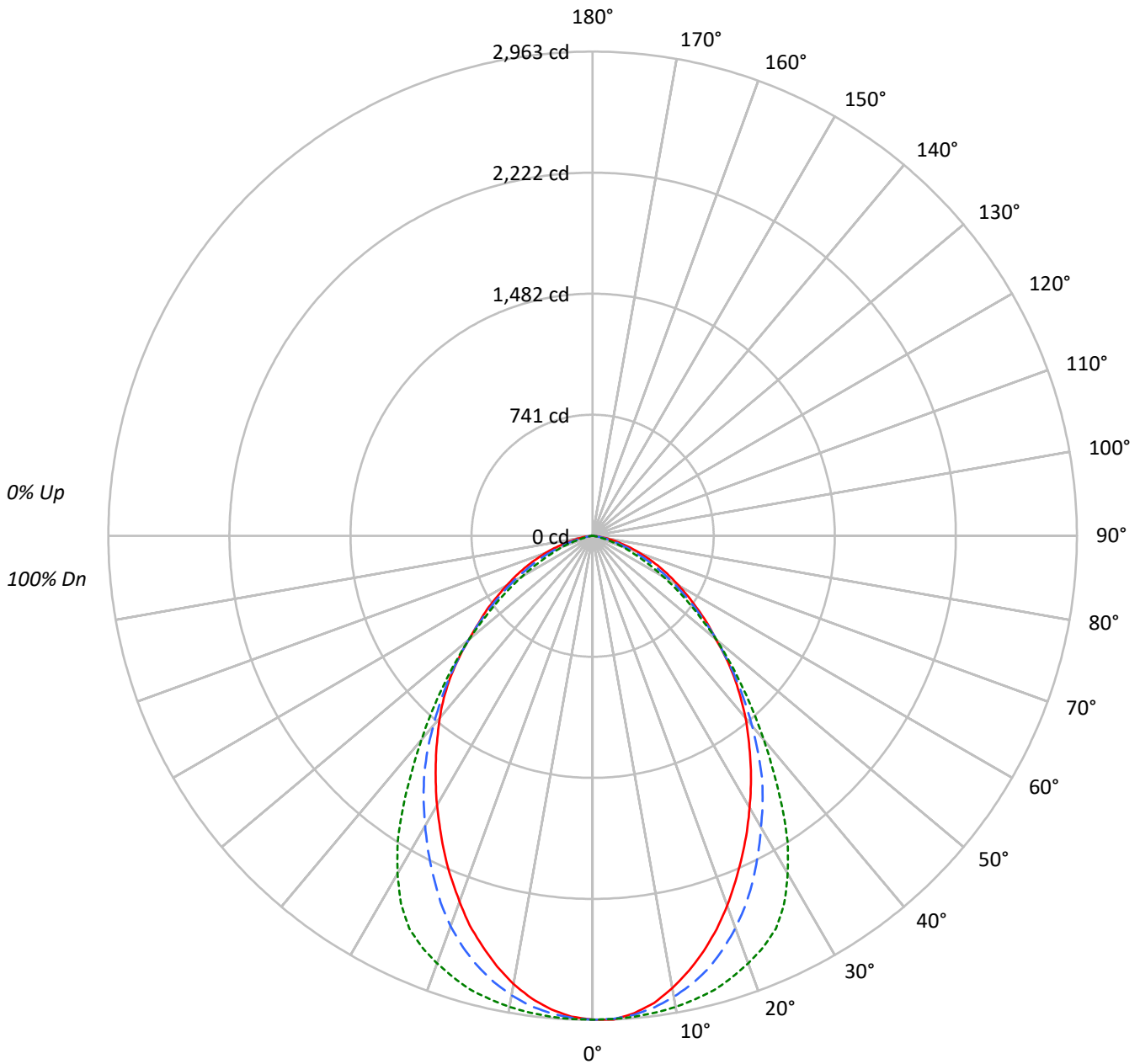
Lumens per Lamp: N/A  
Luminaire Lumens: 5438.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 78  
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

TEST NUMBER: P879483

CATALOG NUMBER: LD4C70D010 EU4709035 4LBLDWWLI

### 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	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°	363769	363769	363769
5°	361607	364332	358869
10°	350594	365227	347550
15°	334490	366032	330827
20°	314725	363948	311248
25°	293149	359638	290749
30°	272383	338674	270185
35°	252590	302907	250761
40°	233520	261233	233344
45°	212781	222979	214518
50°	187934	188565	188985
55°	168395	154173	169102
60°	148825	122436	149095
65°	131017	93343	129709
70°	108586	66811	108586
75°	84634	38353	81453
80°	54830	9410	52495
85°	20298	3101	15646



TEST NUMBER: P879483

CATALOG NUMBER: LD4C70D010 EU4709035 4LBLDWWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.9	5.1
10°-20°	769.0	14.1
20°-30°	1075.0	19.8
30°-40°	1134.0	20.9
40°-50°	964.7	17.7
50°-60°	680.7	12.5
60°-70°	385.9	7.1
70°-80°	137.7	2.5
80°-90°	13.2	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°	2121.9	39.0
0°-40°	3255.9	59.9
0°-60°	4901.3	90.1
0°-90°	5438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5438.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2961	2961	2961	2961	2961	
5°	2932	2942	2954	2933	2910	276
15°	2630	2741	2878	2725	2601	737
25°	2163	2324	2653	2303	2145	995
35°	1684	1806	2020	1796	1672	1053
45°	1225	1242	1283	1248	1235	942
55°	786	760	720	762	790	706
65°	451	386	321	388	446	446
75°	178	122	81	120	172	193
85°	14	6	2	6	11	26
90°	0	0	0	0	0	



TEST NUMBER: P879483

CATALOG NUMBER: LD4C70D010 EU4709035 4LBDWWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0
2.5°	2963.2	2957.6	2957.6	2957.6	2957.6	2957.6	2957.6	2957.6	2957.6	2958.7	2958.7
5°	2932.2	2930.0	2928.8	2928.8	2928.8	2928.8	2930.0	2934.4	2936.6	2939.9	2942.1
7.5°	2883.4	2879.0	2881.2	2881.2	2883.4	2885.7	2889.0	2893.4	2900.1	2904.5	2910.0
10°	2810.4	2805.9	2811.5	2813.7	2820.3	2823.7	2829.2	2835.8	2849.1	2855.8	2864.6
12.5°	2725.1	2722.9	2725.1	2734.0	2740.6	2745.0	2751.7	2766.1	2779.4	2793.8	2809.3
15°	2629.9	2624.3	2627.7	2638.7	2649.8	2657.6	2663.1	2681.9	2699.6	2721.8	2740.6
17.5°	2523.6	2515.8	2524.7	2533.5	2547.9	2554.6	2562.3	2583.4	2607.7	2632.1	2653.1
20°	2407.3	2405.1	2410.6	2422.8	2437.2	2446.1	2452.7	2476.0	2497.0	2530.2	2554.6
22.5°	2286.6	2288.8	2293.2	2306.5	2316.5	2328.7	2338.6	2359.7	2384.0	2415.1	2446.1
25°	2162.6	2165.9	2173.7	2182.5	2199.1	2205.8	2218.0	2240.1	2261.1	2289.9	2324.3
27.5°	2043.0	2044.1	2053.0	2057.4	2072.9	2087.3	2092.8	2116.1	2140.4	2162.6	2192.5
30°	1920.1	1923.4	1928.9	1941.1	1956.6	1962.2	1968.8	1989.8	2008.7	2036.4	2059.6
32.5°	1802.7	1800.5	1807.1	1813.8	1831.5	1841.5	1844.8	1869.1	1885.8	1913.4	1935.6
35°	1684.2	1678.7	1688.7	1695.3	1710.8	1719.7	1724.1	1742.9	1758.4	1781.7	1806.0
37.5°	1565.7	1570.2	1574.6	1580.1	1587.9	1590.1	1603.4	1607.8	1627.8	1645.5	1658.8
40°	1456.1	1453.9	1451.7	1457.2	1467.2	1471.6	1472.7	1484.9	1489.3	1507.1	1517.0
42.5°	1338.7	1339.9	1338.7	1339.9	1345.4	1345.4	1348.7	1356.5	1359.8	1365.3	1377.5
45°	1224.7	1224.7	1221.4	1222.5	1223.6	1222.5	1223.6	1226.9	1233.5	1233.5	1242.4
47.5°	1106.2	1104.0	1108.4	1105.1	1102.9	1101.8	1105.1	1101.8	1108.4	1108.4	1110.6
50°	983.3	983.3	988.8	987.7	989.9	985.5	986.6	986.6	987.7	986.6	991.0
52.5°	888.1	885.9	883.6	878.1	880.3	875.9	875.9	877.0	873.7	872.6	867.0
55°	786.2	788.4	785.1	782.9	782.9	778.4	777.3	770.7	766.3	762.9	759.6
57.5°	694.3	696.5	695.4	689.9	683.2	684.3	682.1	675.5	665.5	658.9	653.3
60°	605.7	607.9	605.7	600.2	597.9	593.5	592.4	583.6	575.8	566.9	560.3
62.5°	526.0	526.0	524.9	517.1	511.6	512.7	507.1	500.5	490.5	478.4	468.4
65°	450.7	449.6	444.0	440.7	436.3	430.7	427.4	417.5	409.7	399.7	386.5
67.5°	375.4	372.1	369.8	366.5	356.6	355.4	351.0	342.2	331.1	323.3	312.3
70°	302.3	301.2	296.8	296.8	289.0	285.7	279.0	271.3	261.3	250.3	241.4
72.5°	239.2	237.0	232.5	228.1	221.5	219.2	213.7	206.0	197.1	186.0	175.0
75°	178.3	176.1	175.0	169.4	163.9	158.3	156.1	148.4	139.5	131.8	121.8
77.5°	125.1	122.9	119.6	116.3	112.9	109.6	106.3	99.7	91.9	85.3	76.4
80°	77.5	75.3	73.1	72.0	68.7	67.5	63.1	59.8	53.2	48.7	43.2
82.5°	39.9	39.9	37.6	36.5	34.3	33.2	32.1	28.8	25.5	22.1	18.8
85°	14.4	14.4	13.3	12.2	12.2	11.1	11.1	10.0	7.8	7.8	5.5
87.5°	1.1	1.1	2.2	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



TEST NUMBER: P879483

CATALOG NUMBER: LD4C70D010 EU4709035 4LBLDWWLI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0
2.5°	2959.9	2958.7	2959.9	2959.9	2961.0	2961.0	2961.0	2959.9	2961.0	2959.9	2959.9
5°	2942.1	2945.5	2947.7	2949.9	2951.0	2952.1	2952.1	2953.2	2954.3	2954.3	2953.2
7.5°	2914.5	2921.1	2927.7	2932.2	2934.4	2936.6	2939.9	2942.1	2944.3	2943.2	2942.1
10°	2877.9	2889.0	2897.8	2906.7	2911.1	2914.5	2920.0	2924.4	2926.6	2927.7	2924.4
12.5°	2825.9	2841.4	2855.8	2870.2	2876.8	2881.2	2892.3	2900.1	2904.5	2904.5	2901.2
15°	2760.5	2782.7	2803.7	2822.5	2833.6	2840.3	2856.9	2867.9	2874.6	2877.9	2872.4
17.5°	2681.9	2707.4	2732.9	2757.2	2768.3	2778.3	2801.5	2817.0	2831.4	2833.6	2827.0
20°	2581.1	2613.3	2642.1	2671.9	2684.1	2699.6	2726.2	2751.7	2773.8	2783.8	2765.0
22.5°	2468.2	2503.6	2530.2	2566.8	2583.4	2600.0	2634.3	2666.4	2705.2	2726.2	2693.0
25°	2350.8	2380.7	2412.8	2448.3	2471.5	2489.2	2529.1	2570.1	2622.1	2653.1	2606.6
27.5°	2224.6	2251.2	2289.9	2328.7	2346.4	2368.5	2416.2	2460.5	2510.3	2538.0	2503.6
30°	2093.9	2127.2	2163.7	2199.1	2224.6	2245.6	2284.4	2322.0	2364.1	2387.4	2361.9
32.5°	1964.4	1996.5	2027.5	2066.2	2080.6	2099.5	2133.8	2165.9	2198.0	2219.1	2189.2
35°	1828.2	1857.0	1885.8	1912.3	1919.0	1941.1	1968.8	1987.6	2003.1	2019.7	1999.8
37.5°	1679.8	1701.9	1716.3	1745.1	1756.2	1759.5	1781.7	1795.0	1811.6	1814.9	1813.8
40°	1529.2	1549.1	1561.3	1579.0	1587.9	1587.9	1603.4	1615.6	1627.8	1628.9	1627.8
42.5°	1388.6	1398.5	1408.5	1419.6	1417.4	1430.7	1437.3	1442.8	1451.7	1451.7	1453.9
45°	1246.8	1254.6	1263.4	1265.7	1274.5	1274.5	1280.1	1282.3	1286.7	1283.4	1278.9
47.5°	1115.1	1118.4	1119.5	1129.5	1131.7	1123.9	1130.6	1131.7	1130.6	1130.6	1128.4
50°	989.9	992.2	991.0	987.7	988.8	992.2	988.8	984.4	986.6	986.6	988.8
52.5°	868.1	863.7	861.5	861.5	857.1	857.1	851.5	849.3	848.2	843.8	849.3
55°	756.3	749.7	739.7	737.5	734.1	733.0	726.4	720.9	718.6	719.8	718.6
57.5°	648.9	638.9	632.3	630.1	626.7	620.1	612.3	606.8	605.7	603.5	603.5
60°	551.4	540.4	530.4	520.4	521.5	517.1	509.4	506.0	502.7	498.3	501.6
62.5°	462.9	450.7	439.6	429.6	423.0	419.7	414.1	408.6	405.3	402.0	406.4
65°	375.4	365.4	353.2	343.3	339.9	336.6	331.1	322.2	321.1	321.1	323.3
67.5°	296.8	285.7	274.6	268.0	263.5	259.1	256.9	252.5	249.1	246.9	248.0
70°	228.1	217.0	208.2	201.5	198.2	197.1	189.4	188.2	187.1	186.0	184.9
72.5°	166.1	157.2	149.5	145.1	140.6	137.3	135.1	131.8	130.7	130.7	130.7
75°	114.1	107.4	98.6	93.0	90.8	87.5	84.2	81.9	79.7	80.8	80.8
77.5°	68.7	62.0	56.5	52.0	50.9	47.6	44.3	42.1	38.8	38.8	39.9
80°	37.6	32.1	27.7	24.4	22.1	21.0	17.7	16.6	14.4	13.3	13.3
82.5°	16.6	13.3	11.1	10.0	8.9	7.8	6.6	5.5	5.5	4.4	5.5
85°	5.5	4.4	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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



TEST NUMBER: P879483

CATALOG NUMBER: LD4C70D010 EU4709035 4LBDWWLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0
2.5°	2958.7	2958.7	2957.6	2957.6	2957.6	2955.4	2955.4	2954.3	2953.2	2952.1	2949.9
5°	2951.0	2949.9	2947.7	2946.6	2945.5	2942.1	2938.8	2936.6	2933.3	2928.8	2926.6
7.5°	2939.9	2936.6	2932.2	2930.0	2926.6	2918.9	2913.3	2907.8	2902.3	2894.5	2885.7
10°	2921.1	2914.5	2907.8	2903.4	2897.8	2887.9	2876.8	2867.9	2855.8	2844.7	2832.5
12.5°	2894.5	2886.8	2873.5	2866.8	2860.2	2845.8	2831.4	2812.6	2796.0	2780.5	2766.1
15°	2861.3	2846.9	2831.4	2822.5	2812.6	2789.3	2767.2	2747.2	2725.1	2706.3	2683.0
17.5°	2812.6	2791.5	2769.4	2759.4	2746.1	2719.6	2693.0	2665.3	2639.8	2616.6	2587.8
20°	2739.5	2716.2	2687.5	2671.9	2660.9	2625.4	2600.0	2569.0	2542.4	2513.6	2481.5
22.5°	2654.2	2622.1	2590.0	2567.9	2555.7	2520.2	2485.9	2458.2	2429.4	2396.2	2373.0
25°	2557.9	2518.0	2479.3	2457.1	2438.3	2400.7	2367.4	2338.6	2303.2	2274.4	2251.2
27.5°	2449.4	2404.0	2358.6	2336.4	2318.7	2277.7	2242.3	2212.4	2178.1	2152.6	2128.3
30°	2319.8	2278.9	2235.7	2218.0	2196.9	2154.8	2113.9	2087.3	2049.6	2023.1	1996.5
32.5°	2158.2	2131.6	2097.3	2072.9	2061.8	2023.1	1988.7	1956.6	1924.5	1903.5	1876.9
35°	1981.0	1957.7	1928.9	1915.7	1901.3	1876.9	1849.2	1821.5	1796.1	1776.1	1751.8
37.5°	1801.6	1778.3	1760.6	1746.2	1737.4	1715.2	1698.6	1677.6	1659.9	1641.0	1627.8
40°	1615.6	1608.9	1590.1	1583.5	1581.2	1556.9	1542.5	1525.9	1514.8	1503.7	1496.0
42.5°	1450.6	1439.5	1425.1	1426.2	1419.6	1406.3	1396.3	1385.3	1377.5	1372.0	1364.2
45°	1287.8	1278.9	1272.3	1277.8	1266.8	1262.3	1254.6	1253.5	1247.9	1238.0	1234.7
47.5°	1132.8	1131.7	1132.8	1129.5	1127.2	1125.0	1126.1	1120.6	1115.1	1111.7	1107.3
50°	991.0	992.2	994.4	997.7	989.9	993.3	992.2	991.0	991.0	987.7	989.9
52.5°	853.7	854.8	857.1	860.4	861.5	861.5	864.8	867.0	871.5	877.0	877.0
55°	724.2	731.9	736.4	741.9	738.6	745.2	748.5	758.5	761.8	761.8	766.3
57.5°	609.0	616.8	620.1	626.7	629.0	634.5	643.3	648.9	656.6	663.3	669.9
60°	503.8	507.1	516.0	526.0	523.8	537.0	543.7	552.5	562.5	566.9	575.8
62.5°	409.7	414.1	420.8	424.1	431.9	438.5	454.0	462.9	471.7	482.8	491.6
65°	325.6	330.0	336.6	343.3	346.6	356.6	364.3	379.8	387.6	399.7	409.7
67.5°	249.1	255.8	261.3	265.8	268.0	277.9	290.1	296.8	311.2	323.3	331.1
70°	186.0	191.6	198.2	197.1	201.5	209.3	218.1	228.1	239.2	250.3	259.1
72.5°	129.6	135.1	139.5	140.6	145.1	150.6	157.2	165.0	173.8	184.9	197.1
75°	81.9	83.0	87.5	89.7	91.9	98.6	104.1	111.8	119.6	128.4	136.2
77.5°	41.0	44.3	46.5	48.7	49.8	55.4	60.9	67.5	74.2	83.0	90.8
80°	15.5	16.6	19.9	21.0	23.3	26.6	31.0	34.3	39.9	46.5	50.9
82.5°	5.5	6.6	7.8	7.8	8.9	11.1	12.2	15.5	18.8	21.0	23.3
85°	2.2	2.2	2.2	2.2	2.2	3.3	3.3	4.4	5.5	6.6	6.6
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: P879483

CATALOG NUMBER: LD4C70D010 EU4709035 4LBLDWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0	2961.0
2.5°	2948.8	2948.8	2947.7	2946.6	2946.6	2946.6	2945.5	2945.5
5°	2922.2	2918.9	2917.8	2915.6	2914.5	2913.3	2910.0	2910.0
7.5°	2879.0	2874.6	2871.3	2867.9	2863.5	2860.2	2860.2	2855.8
10°	2821.4	2812.6	2808.1	2803.7	2798.2	2791.5	2789.3	2786.0
12.5°	2751.7	2734.0	2729.5	2721.8	2712.9	2708.5	2700.7	2700.7
15°	2665.3	2646.5	2636.5	2632.1	2621.0	2613.3	2609.9	2601.1
17.5°	2564.5	2550.1	2534.6	2528.0	2515.8	2505.9	2501.4	2500.3
20°	2462.7	2439.4	2429.4	2419.5	2405.1	2396.2	2389.6	2380.7
22.5°	2345.3	2324.3	2309.9	2303.2	2291.0	2275.5	2264.5	2264.5
25°	2221.3	2202.4	2194.7	2180.3	2165.9	2160.4	2147.1	2144.9
27.5°	2102.8	2084.0	2068.5	2060.7	2044.1	2036.4	2025.3	2020.8
30°	1979.9	1957.7	1946.7	1945.6	1925.6	1917.9	1909.0	1904.6
32.5°	1857.0	1838.1	1827.1	1820.4	1811.6	1798.3	1790.5	1786.1
35°	1735.2	1723.0	1713.0	1705.3	1690.9	1684.2	1677.6	1672.0
37.5°	1607.8	1596.7	1592.3	1585.7	1579.0	1566.8	1564.6	1560.2
40°	1484.9	1470.5	1470.5	1466.1	1459.4	1458.3	1455.0	1455.0
42.5°	1356.5	1349.8	1348.7	1349.8	1345.4	1343.2	1339.9	1347.6
45°	1229.1	1232.4	1226.9	1228.0	1225.8	1230.2	1230.2	1234.7
47.5°	1111.7	1107.3	1109.5	1111.7	1115.1	1115.1	1114.0	1112.9
50°	986.6	991.0	995.5	989.9	992.2	993.3	987.7	988.8
52.5°	879.2	880.3	883.6	880.3	883.6	882.5	884.7	880.3
55°	775.1	775.1	779.5	780.7	781.8	785.1	786.2	789.5
57.5°	674.4	679.9	685.4	684.3	688.7	693.2	689.9	693.2
60°	586.9	591.3	596.8	599.1	602.4	604.6	604.6	606.8
62.5°	498.3	507.1	511.6	516.0	516.0	520.4	524.9	526.0
65°	418.6	428.5	431.9	435.2	437.4	441.8	447.4	446.2
67.5°	343.3	349.9	354.3	356.6	363.2	365.4	369.8	374.3
70°	269.1	277.9	281.3	285.7	291.2	295.7	300.1	302.3
72.5°	206.0	212.6	214.8	219.2	224.8	229.2	231.4	234.8
75°	144.0	155.0	156.1	159.5	163.9	169.4	172.7	171.6
77.5°	95.2	103.0	104.1	108.5	112.9	117.4	118.5	119.6
80°	56.5	60.9	62.0	64.2	67.5	69.8	72.0	74.2
82.5°	26.6	28.8	31.0	31.0	33.2	35.4	35.4	36.5
85°	8.9	8.9	10.0	10.0	11.1	11.1	12.2	11.1
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)