

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: P879481

Luminaire Tested: **LD4C70D010 EU4709030 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: P879481
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 EU4709030 4LBLDWWLI
Description: 4 INCH 7000 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

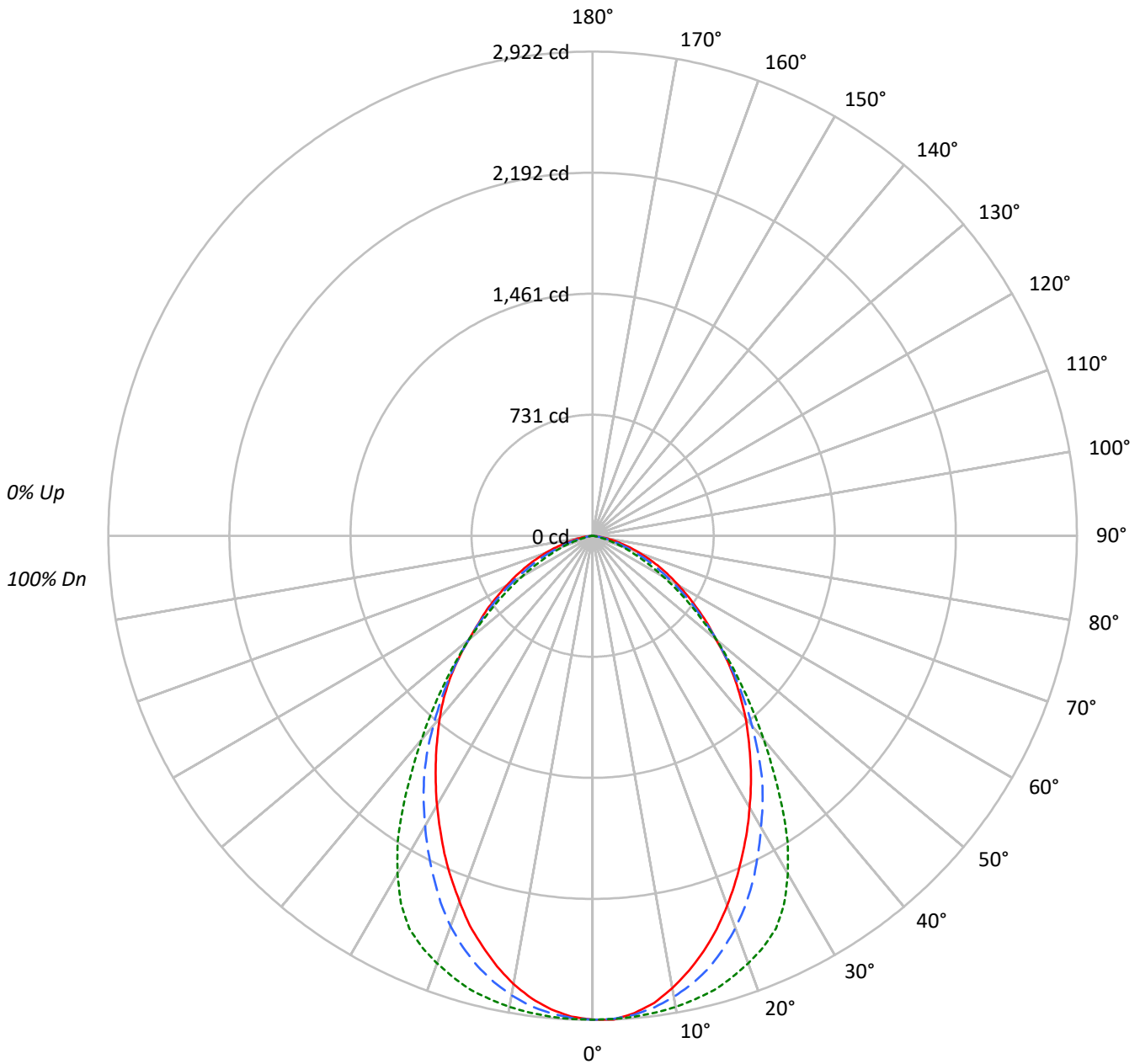
Lumens per Lamp: N/A
Luminaire Lumens: 5363.0 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	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°	358744	358744	358744
5°	356612	359313	353924
10°	345753	360199	342759
15°	329873	360983	326261
20°	310385	358928	306960
25°	289109	354677	286737
30°	268624	333993	266454
35°	249111	298738	247311
40°	230297	257625	230120
45°	209844	219904	211547
50°	185335	185966	186386
55°	166082	152031	166767
60°	146761	120740	147031
65°	129214	92063	127935
70°	107077	65913	107077
75°	83447	37831	80362
80°	54052	9268	51788
85°	20016	3101	15364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	5.1
10°-20°	758.4	14.1
20°-30°	1060.2	19.8
30°-40°	1118.3	20.9
40°-50°	951.4	17.7
50°-60°	671.3	12.5
60°-70°	380.5	7.1
70°-80°	135.8	2.5
80°-90°	13.0	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°	2092.7	39.0
0°-40°	3211.0	59.9
0°-60°	4833.7	90.1
0°-90°	5363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5363.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2920	2920	2920	2920	2920	
5°	2892	2902	2914	2893	2870	272
15°	2594	2703	2838	2688	2565	727
25°	2133	2292	2616	2271	2115	981
35°	1661	1781	1992	1771	1649	1038
45°	1208	1225	1266	1231	1218	929
55°	775	749	710	751	779	696
65°	444	381	317	382	440	440
75°	176	120	80	118	169	190
85°	14	6	2	6	11	25
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°	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1
2.5°	2922.3	2916.8	2916.8	2916.8	2916.8	2916.8	2916.8	2916.8	2916.8	2917.9	2917.9
5°	2891.7	2889.5	2888.5	2888.5	2888.5	2888.5	2889.5	2893.9	2896.1	2899.4	2901.6
7.5°	2843.7	2839.3	2841.5	2841.5	2843.7	2845.9	2849.1	2853.5	2860.1	2864.4	2869.9
10°	2771.6	2767.2	2772.7	2774.9	2781.4	2784.7	2790.2	2796.7	2809.8	2816.4	2825.1
12.5°	2687.5	2685.3	2687.5	2696.3	2702.8	2707.2	2713.7	2727.9	2741.0	2755.2	2770.5
15°	2593.6	2588.1	2591.4	2602.3	2613.3	2620.9	2626.4	2644.9	2662.4	2684.2	2702.8
17.5°	2488.8	2481.1	2489.9	2498.6	2512.8	2519.3	2527.0	2547.7	2571.8	2595.8	2616.5
20°	2374.1	2371.9	2377.4	2389.4	2403.6	2412.3	2418.9	2441.8	2462.6	2495.3	2519.3
22.5°	2255.1	2257.3	2261.6	2274.7	2284.6	2296.6	2306.4	2327.1	2351.2	2381.7	2412.3
25°	2132.8	2136.0	2143.7	2152.4	2168.8	2175.3	2187.4	2209.2	2230.0	2258.3	2292.2
27.5°	2014.8	2015.9	2024.6	2029.0	2044.3	2058.5	2064.0	2086.9	2110.9	2132.8	2162.2
30°	1893.6	1896.9	1902.3	1914.4	1929.6	1935.1	1941.7	1962.4	1981.0	2008.3	2031.2
32.5°	1777.8	1775.7	1782.2	1788.8	1806.2	1816.1	1819.3	1843.4	1859.7	1887.0	1908.9
35°	1661.0	1655.5	1665.4	1671.9	1687.2	1695.9	1700.3	1718.9	1734.2	1757.1	1781.1
37.5°	1544.1	1548.5	1552.9	1558.3	1566.0	1568.2	1581.3	1585.6	1605.3	1622.8	1635.9
40°	1436.0	1433.9	1431.7	1437.1	1447.0	1451.3	1452.4	1464.4	1468.8	1486.3	1496.1
42.5°	1320.3	1321.4	1320.3	1321.4	1326.8	1326.8	1330.1	1337.8	1341.0	1346.5	1358.5
45°	1207.8	1207.8	1204.5	1205.6	1206.7	1205.6	1206.7	1210.0	1216.5	1216.5	1225.3
47.5°	1091.0	1088.8	1093.1	1089.9	1087.7	1086.6	1089.9	1086.6	1093.1	1093.1	1095.3
50°	969.7	969.7	975.2	974.1	976.3	971.9	973.0	973.0	974.1	973.0	977.4
52.5°	875.8	873.6	871.4	866.0	868.2	863.8	863.8	864.9	861.6	860.5	855.1
55°	775.4	777.5	774.3	772.1	772.1	767.7	766.6	760.1	755.7	752.4	749.1
57.5°	684.7	686.9	685.8	680.3	673.8	674.9	672.7	666.1	656.3	649.8	644.3
60°	597.3	599.5	597.3	591.9	589.7	585.3	584.2	575.5	567.9	559.1	552.6
62.5°	518.7	518.7	517.6	510.0	504.5	505.6	500.2	493.6	483.8	471.8	461.9
65°	444.5	443.4	437.9	434.6	430.3	424.8	421.5	411.7	404.1	394.2	381.1
67.5°	370.2	366.9	364.7	361.5	351.6	350.5	346.2	337.4	326.5	318.9	308.0
70°	298.1	297.0	292.7	292.7	285.0	281.7	275.2	267.6	257.7	246.8	238.1
72.5°	235.9	233.7	229.3	225.0	218.4	216.2	210.8	203.1	194.4	183.5	172.5
75°	175.8	173.6	172.5	167.1	161.6	156.2	154.0	146.3	137.6	130.0	120.1
77.5°	123.4	121.2	117.9	114.7	111.4	108.1	104.8	98.3	90.6	84.1	75.4
80°	76.4	74.3	72.1	71.0	67.7	66.6	62.2	59.0	52.4	48.0	42.6
82.5°	39.3	39.3	37.1	36.0	33.9	32.8	31.7	28.4	25.1	21.8	18.6
85°	14.2	14.2	13.1	12.0	12.0	10.9	10.9	9.8	7.6	7.6	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1
2.5°	2919.0	2917.9	2919.0	2919.0	2920.1	2920.1	2920.1	2919.0	2920.1	2919.0	2919.0
5°	2901.6	2904.8	2907.0	2909.2	2910.3	2911.4	2911.4	2912.5	2913.6	2913.6	2912.5
7.5°	2874.3	2880.8	2887.4	2891.7	2893.9	2896.1	2899.4	2901.6	2903.7	2902.6	2901.6
10°	2838.2	2849.1	2857.9	2866.6	2871.0	2874.3	2879.7	2884.1	2886.3	2887.4	2884.1
12.5°	2786.9	2802.2	2816.4	2830.6	2837.1	2841.5	2852.4	2860.1	2864.4	2864.4	2861.2
15°	2722.5	2744.3	2765.1	2783.6	2794.5	2801.1	2817.5	2828.4	2834.9	2838.2	2832.8
17.5°	2644.9	2670.0	2695.2	2719.2	2730.1	2739.9	2762.9	2778.2	2792.4	2794.5	2788.0
20°	2545.6	2577.2	2605.6	2635.1	2647.1	2662.4	2688.6	2713.7	2735.6	2745.4	2726.8
22.5°	2434.2	2469.1	2495.3	2531.4	2547.7	2564.1	2598.0	2629.6	2667.9	2688.6	2655.8
25°	2318.4	2347.9	2379.6	2414.5	2437.4	2454.9	2494.2	2534.6	2586.0	2616.5	2570.7
27.5°	2193.9	2220.1	2258.3	2296.6	2314.0	2335.9	2382.8	2426.5	2475.7	2503.0	2469.1
30°	2065.1	2097.8	2133.9	2168.8	2193.9	2214.7	2252.9	2290.0	2331.5	2354.4	2329.3
32.5°	1937.3	1969.0	1999.5	2037.8	2051.9	2070.5	2104.4	2136.0	2167.7	2188.5	2159.0
35°	1803.0	1831.4	1859.7	1886.0	1892.5	1914.4	1941.7	1960.2	1975.5	1991.9	1972.2
37.5°	1656.6	1678.5	1692.7	1721.1	1732.0	1735.3	1757.1	1770.2	1786.6	1789.9	1788.8
40°	1508.1	1527.8	1539.8	1557.3	1566.0	1566.0	1581.3	1593.3	1605.3	1606.4	1605.3
42.5°	1369.4	1379.2	1389.1	1400.0	1397.8	1410.9	1417.5	1422.9	1431.7	1431.7	1433.9
45°	1229.6	1237.3	1246.0	1248.2	1256.9	1256.9	1262.4	1264.6	1269.0	1265.7	1261.3
47.5°	1099.7	1103.0	1104.1	1113.9	1116.1	1108.4	1115.0	1116.1	1115.0	1115.0	1112.8
50°	976.3	978.5	977.4	974.1	975.2	978.5	975.2	970.8	973.0	973.0	975.2
52.5°	856.2	851.8	849.6	849.6	845.2	845.2	839.8	837.6	836.5	832.1	837.6
55°	745.9	739.3	729.5	727.3	724.0	722.9	716.4	710.9	708.7	709.8	708.7
57.5°	639.9	630.1	623.6	621.4	618.1	611.5	603.9	598.4	597.3	595.2	595.2
60°	543.8	532.9	523.1	513.3	514.4	510.0	502.3	499.1	495.8	491.4	494.7
62.5°	456.5	444.5	433.5	423.7	417.2	413.9	408.4	403.0	399.7	396.4	400.8
65°	370.2	360.4	348.4	338.5	335.3	332.0	326.5	317.8	316.7	316.7	318.9
67.5°	292.7	281.7	270.8	264.3	259.9	255.5	253.4	249.0	245.7	243.5	244.6
70°	225.0	214.0	205.3	198.8	195.5	194.4	186.7	185.6	184.6	183.5	182.4
72.5°	163.8	155.1	147.4	143.1	138.7	135.4	133.2	130.0	128.9	128.9	128.9
75°	112.5	105.9	97.2	91.7	89.5	86.3	83.0	80.8	78.6	79.7	79.7
77.5°	67.7	61.2	55.7	51.3	50.2	47.0	43.7	41.5	38.2	38.2	39.3
80°	37.1	31.7	27.3	24.0	21.8	20.7	17.5	16.4	14.2	13.1	13.1
82.5°	16.4	13.1	10.9	9.8	8.7	7.6	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1
2.5°	2917.9	2917.9	2916.8	2916.8	2916.8	2914.7	2914.7	2913.6	2912.5	2911.4	2909.2
5°	2910.3	2909.2	2907.0	2905.9	2904.8	2901.6	2898.3	2896.1	2892.8	2888.5	2886.3
7.5°	2899.4	2896.1	2891.7	2889.5	2886.3	2878.6	2873.2	2867.7	2862.2	2854.6	2845.9
10°	2880.8	2874.3	2867.7	2863.3	2857.9	2848.0	2837.1	2828.4	2816.4	2805.5	2793.4
12.5°	2854.6	2847.0	2833.9	2827.3	2820.7	2806.5	2792.4	2773.8	2757.4	2742.1	2727.9
15°	2821.8	2807.6	2792.4	2783.6	2773.8	2750.9	2729.0	2709.4	2687.5	2669.0	2646.0
17.5°	2773.8	2753.0	2731.2	2721.4	2708.3	2682.1	2655.8	2628.5	2603.4	2580.5	2552.1
20°	2701.7	2678.8	2650.4	2635.1	2624.2	2589.2	2564.1	2533.5	2507.3	2478.9	2447.3
22.5°	2617.6	2586.0	2554.3	2532.4	2520.4	2485.5	2451.6	2424.3	2395.9	2363.2	2340.2
25°	2522.6	2483.3	2445.1	2423.2	2404.7	2367.5	2334.8	2306.4	2271.4	2243.1	2220.1
27.5°	2415.6	2370.8	2326.1	2304.2	2286.7	2246.3	2211.4	2181.9	2148.0	2122.9	2098.9
30°	2287.8	2247.4	2204.8	2187.4	2166.6	2125.1	2084.7	2058.5	2021.4	1995.2	1969.0
32.5°	2128.4	2102.2	2068.3	2044.3	2033.4	1995.2	1961.3	1929.6	1898.0	1877.2	1851.0
35°	1953.7	1930.7	1902.3	1889.2	1875.0	1851.0	1823.7	1796.4	1771.3	1751.6	1727.6
37.5°	1776.8	1753.8	1736.3	1722.2	1713.4	1691.6	1675.2	1654.4	1637.0	1618.4	1605.3
40°	1593.3	1586.7	1568.2	1561.6	1559.4	1535.4	1521.2	1504.8	1493.9	1483.0	1475.3
42.5°	1430.6	1419.7	1405.5	1406.6	1400.0	1386.9	1377.1	1366.1	1358.5	1353.0	1345.4
45°	1270.0	1261.3	1254.8	1260.2	1249.3	1244.9	1237.3	1236.2	1230.7	1220.9	1217.6
47.5°	1117.2	1116.1	1117.2	1113.9	1111.7	1109.5	1110.6	1105.1	1099.7	1096.4	1092.0
50°	977.4	978.5	980.7	983.9	976.3	979.6	978.5	977.4	977.4	974.1	976.3
52.5°	842.0	843.1	845.2	848.5	849.6	849.6	852.9	855.1	859.4	864.9	864.9
55°	714.2	721.8	726.2	731.7	728.4	734.9	738.2	748.0	751.3	751.3	755.7
57.5°	600.6	608.3	611.5	618.1	620.3	625.7	634.5	639.9	647.6	654.1	660.7
60°	496.9	500.2	508.9	518.7	516.5	529.6	536.2	544.9	554.8	559.1	567.9
62.5°	404.1	408.4	415.0	418.3	425.9	432.4	447.7	456.5	465.2	476.1	484.9
65°	321.1	325.4	332.0	338.5	341.8	351.6	359.3	374.6	382.2	394.2	404.1
67.5°	245.7	252.3	257.7	262.1	264.3	274.1	286.1	292.7	306.9	318.9	326.5
70°	183.5	188.9	195.5	194.4	198.8	206.4	215.1	225.0	235.9	246.8	255.5
72.5°	127.8	133.2	137.6	138.7	143.1	148.5	155.1	162.7	171.5	182.4	194.4
75°	80.8	81.9	86.3	88.5	90.6	97.2	102.7	110.3	117.9	126.7	134.3
77.5°	40.4	43.7	45.9	48.0	49.1	54.6	60.1	66.6	73.2	81.9	89.5
80°	15.3	16.4	19.7	20.7	22.9	26.2	30.6	33.9	39.3	45.9	50.2
82.5°	5.5	6.6	7.6	7.6	8.7	10.9	12.0	15.3	18.6	20.7	22.9
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: P879481

CATALOG NUMBER: LD4C70D010 EU4709030 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1	2920.1
2.5°	2908.1	2908.1	2907.0	2905.9	2905.9	2905.9	2904.8	2904.8
5°	2881.9	2878.6	2877.5	2875.3	2874.3	2873.2	2869.9	2869.9
7.5°	2839.3	2834.9	2831.7	2828.4	2824.0	2820.7	2820.7	2816.4
10°	2782.5	2773.8	2769.4	2765.1	2759.6	2753.0	2750.9	2747.6
12.5°	2713.7	2696.3	2691.9	2684.2	2675.5	2671.1	2663.5	2663.5
15°	2628.5	2610.0	2600.2	2595.8	2584.9	2577.2	2573.9	2565.2
17.5°	2529.2	2515.0	2499.7	2493.1	2481.1	2471.3	2466.9	2465.8
20°	2428.7	2405.8	2395.9	2386.1	2371.9	2363.2	2356.6	2347.9
22.5°	2312.9	2292.2	2278.0	2271.4	2259.4	2244.1	2233.2	2233.2
25°	2190.6	2172.1	2164.4	2150.2	2136.0	2130.6	2117.5	2115.3
27.5°	2073.8	2055.2	2039.9	2032.3	2015.9	2008.3	1997.3	1993.0
30°	1952.6	1930.7	1919.8	1918.7	1899.1	1891.4	1882.7	1878.3
32.5°	1831.4	1812.8	1801.9	1795.3	1786.6	1773.5	1765.8	1761.5
35°	1711.2	1699.2	1689.4	1681.7	1667.5	1661.0	1654.4	1649.0
37.5°	1585.6	1574.7	1570.4	1563.8	1557.3	1545.2	1543.1	1538.7
40°	1464.4	1450.2	1450.2	1445.9	1439.3	1438.2	1434.9	1434.9
42.5°	1337.8	1331.2	1330.1	1331.2	1326.8	1324.6	1321.4	1329.0
45°	1212.2	1215.4	1210.0	1211.1	1208.9	1213.3	1213.3	1217.6
47.5°	1096.4	1092.0	1094.2	1096.4	1099.7	1099.7	1098.6	1097.5
50°	973.0	977.4	981.7	976.3	978.5	979.6	974.1	975.2
52.5°	867.1	868.2	871.4	868.2	871.4	870.4	872.5	868.2
55°	764.4	764.4	768.8	769.9	771.0	774.3	775.4	778.6
57.5°	665.1	670.5	676.0	674.9	679.3	683.6	680.3	683.6
60°	578.8	583.2	588.6	590.8	594.1	596.3	596.3	598.4
62.5°	491.4	500.2	504.5	508.9	508.9	513.3	517.6	518.7
65°	412.8	422.6	425.9	429.2	431.4	435.7	441.2	440.1
67.5°	338.5	345.1	349.5	351.6	358.2	360.4	364.7	369.1
70°	265.4	274.1	277.4	281.7	287.2	291.6	295.9	298.1
72.5°	203.1	209.7	211.9	216.2	221.7	226.1	228.2	231.5
75°	142.0	152.9	154.0	157.3	161.6	167.1	170.4	169.3
77.5°	93.9	101.6	102.7	107.0	111.4	115.8	116.8	117.9
80°	55.7	60.1	61.2	63.3	66.6	68.8	71.0	73.2
82.5°	26.2	28.4	30.6	30.6	32.8	34.9	34.9	36.0
85°	8.7	8.7	9.8	9.8	10.9	10.9	12.0	10.9
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)