

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: P879467

Luminaire Tested: **LD4C60D010 EU4609050 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: P879467
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: LD4C60D010 EU4609050 4LBLDWWLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

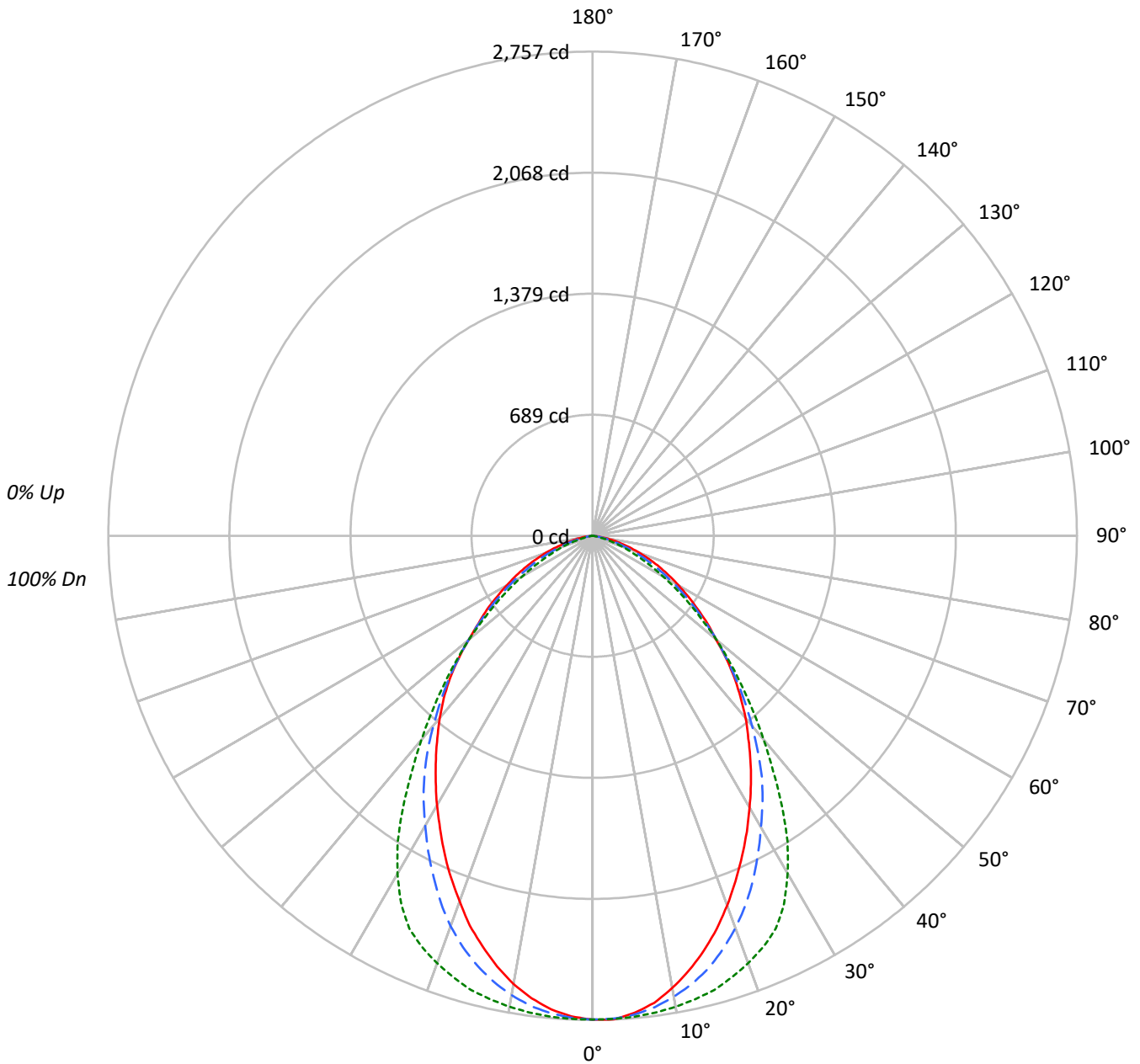
Lumens per Lamp: N/A
Luminaire Lumens: 5059.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
Input Voltage (V): NR
Input Current (A_{in}): 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: P879467

CATALOG NUMBER: LD4C60D010 EU4609050 4LBLDWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P879467

CATALOG NUMBER: LD4C60D010 EU4609050 4LBLDWWLI

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°	338412	338412	338412
5°	336400	338940	333859
10°	326155	339778	323324
15°	311176	340518	307768
20°	292788	338585	289558
25°	272721	334574	270484
30°	253403	315069	251346
35°	234983	281806	233288
40°	217242	243014	217082
45°	197943	207429	199559
50°	174842	175435	175817
55°	156657	143421	157321
60°	138456	113910	138702
65°	121889	86831	120668
70°	101007	62177	101007
75°	78748	35695	75805
80°	51010	8773	48816
85°	18888	2960	14519



TEST NUMBER: P879467

CATALOG NUMBER: LD4C60D010 EU4609050 4LBLDWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.6	5.1
10°-20°	715.4	14.1
20°-30°	1000.1	19.8
30°-40°	1054.9	20.9
40°-50°	897.4	17.7
50°-60°	633.3	12.5
60°-70°	359.0	7.1
70°-80°	128.1	2.5
80°-90°	12.3	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°	1974.1	39.0
0°-40°	3029.0	59.9
0°-60°	4559.7	90.1
0°-90°	5059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5059.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2755	2755	2755	2755	2755	
5°	2728	2737	2748	2729	2707	257
15°	2447	2550	2677	2535	2420	686
25°	2012	2162	2468	2143	1995	926
35°	1567	1680	1879	1671	1556	980
45°	1139	1156	1194	1161	1149	876
55°	731	707	670	709	734	657
65°	419	360	299	360	415	415
75°	166	113	75	111	160	179
85°	13	5	2	5	10	24
90°	0	0	0	0	0	



TEST NUMBER: P879467

CATALOG NUMBER: LD4C60D010 EU4609050 4LBLDWWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6
2.5°	2756.7	2751.5	2751.5	2751.5	2751.5	2751.5	2751.5	2751.5	2751.5	2752.5	2752.5
5°	2727.8	2725.8	2724.7	2724.7	2724.7	2724.7	2725.8	2729.9	2731.9	2735.0	2737.1
7.5°	2682.5	2678.4	2680.4	2680.4	2682.5	2684.5	2687.6	2691.8	2697.9	2702.1	2707.2
10°	2614.5	2610.4	2615.5	2617.6	2623.8	2626.9	2632.0	2638.2	2650.6	2656.7	2665.0
12.5°	2535.2	2533.1	2535.2	2543.4	2549.6	2553.7	2559.9	2573.3	2585.7	2599.0	2613.5
15°	2446.6	2441.4	2444.5	2454.8	2465.1	2472.3	2477.5	2495.0	2511.5	2532.1	2549.6
17.5°	2347.7	2340.5	2348.7	2357.0	2370.4	2376.5	2383.7	2403.3	2426.0	2448.6	2468.2
20°	2239.5	2237.5	2242.6	2253.9	2267.3	2275.6	2281.8	2303.4	2323.0	2353.9	2376.5
22.5°	2127.2	2129.3	2133.4	2145.8	2155.1	2166.4	2175.7	2195.2	2217.9	2246.7	2275.6
25°	2011.9	2015.0	2022.2	2030.4	2045.9	2052.0	2063.4	2084.0	2103.5	2130.3	2162.3
27.5°	1900.6	1901.6	1909.9	1914.0	1928.4	1941.8	1947.0	1968.6	1991.3	2011.9	2039.7
30°	1786.3	1789.4	1794.5	1805.8	1820.3	1825.4	1831.6	1851.2	1868.7	1894.4	1916.1
32.5°	1677.1	1675.0	1681.2	1687.4	1703.9	1713.1	1716.2	1738.9	1754.3	1780.1	1800.7
35°	1566.8	1561.7	1571.0	1577.1	1591.6	1599.8	1603.9	1621.4	1635.9	1657.5	1680.2
37.5°	1456.6	1460.7	1464.9	1470.0	1477.2	1479.3	1491.6	1495.8	1514.3	1530.8	1543.2
40°	1354.6	1352.6	1350.5	1355.7	1364.9	1369.1	1370.1	1381.4	1385.5	1402.0	1411.3
42.5°	1245.4	1246.5	1245.4	1246.5	1251.6	1251.6	1254.7	1261.9	1265.0	1270.2	1281.5
45°	1139.3	1139.3	1136.2	1137.3	1138.3	1137.3	1138.3	1141.4	1147.6	1147.6	1155.8
47.5°	1029.1	1027.0	1031.2	1028.1	1026.0	1025.0	1028.1	1025.0	1031.2	1031.2	1033.2
50°	914.8	914.8	919.9	918.9	920.9	916.8	917.9	917.9	918.9	917.9	922.0
52.5°	826.2	824.1	822.1	816.9	819.0	814.8	814.8	815.9	812.8	811.8	806.6
55°	731.4	733.5	730.4	728.3	728.3	724.2	723.2	717.0	712.9	709.8	706.7
57.5°	645.9	648.0	646.9	641.8	635.6	636.6	634.6	628.4	619.1	612.9	607.8
60°	563.5	565.5	563.5	558.3	556.3	552.2	551.1	542.9	535.7	527.4	521.3
62.5°	489.3	489.3	488.3	481.1	475.9	477.0	471.8	465.6	456.4	445.0	435.7
65°	419.3	418.2	413.1	410.0	405.9	400.7	397.6	388.4	381.2	371.9	359.5
67.5°	349.2	346.1	344.1	341.0	331.7	330.7	326.6	318.3	308.0	300.8	290.5
70°	281.2	280.2	276.1	276.1	268.9	265.8	259.6	252.4	243.1	232.8	224.6
72.5°	222.5	220.5	216.3	212.2	206.0	204.0	198.8	191.6	183.4	173.1	162.8
75°	165.9	163.8	162.8	157.6	152.5	147.3	145.2	138.0	129.8	122.6	113.3
77.5°	116.4	114.3	111.3	108.2	105.1	102.0	98.9	92.7	85.5	79.3	71.1
80°	72.1	70.0	68.0	67.0	63.9	62.8	58.7	55.6	49.4	45.3	40.2
82.5°	37.1	37.1	35.0	34.0	31.9	30.9	29.9	26.8	23.7	20.6	17.5
85°	13.4	13.4	12.4	11.3	11.3	10.3	10.3	9.3	7.2	7.2	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



TEST NUMBER: P879467

CATALOG NUMBER: LD4C60D010 EU4609050 4LBDWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6
2.5°	2753.6	2752.5	2753.6	2753.6	2754.6	2754.6	2754.6	2753.6	2754.6	2753.6	2753.6
5°	2737.1	2740.2	2742.2	2744.3	2745.3	2746.4	2746.4	2747.4	2748.4	2748.4	2747.4
7.5°	2711.3	2717.5	2723.7	2727.8	2729.9	2731.9	2735.0	2737.1	2739.1	2738.1	2737.1
10°	2677.3	2687.6	2695.9	2704.1	2708.2	2711.3	2716.5	2720.6	2722.7	2723.7	2720.6
12.5°	2628.9	2643.3	2656.7	2670.1	2676.3	2680.4	2690.7	2697.9	2702.1	2702.1	2699.0
15°	2568.1	2588.7	2608.3	2625.8	2636.1	2642.3	2657.8	2668.1	2674.2	2677.3	2672.2
17.5°	2495.0	2518.7	2542.4	2565.0	2575.4	2584.6	2606.3	2620.7	2634.1	2636.1	2629.9
20°	2401.3	2431.1	2457.9	2485.7	2497.1	2511.5	2536.2	2559.9	2580.5	2589.8	2572.3
22.5°	2296.2	2329.1	2353.9	2387.9	2403.3	2418.8	2450.7	2480.6	2516.6	2536.2	2505.3
25°	2187.0	2214.8	2244.7	2277.6	2299.3	2315.8	2352.8	2391.0	2439.4	2468.2	2425.0
27.5°	2069.6	2094.3	2130.3	2166.4	2182.9	2203.5	2247.8	2289.0	2335.3	2361.1	2329.1
30°	1948.0	1978.9	2012.9	2045.9	2069.6	2089.1	2125.2	2160.2	2199.3	2221.0	2197.3
32.5°	1827.5	1857.3	1886.2	1922.2	1935.6	1953.1	1985.1	2015.0	2044.8	2064.4	2036.6
35°	1700.8	1727.5	1754.3	1779.1	1785.2	1805.8	1831.6	1849.1	1863.5	1879.0	1860.4
37.5°	1562.7	1583.3	1596.7	1623.5	1633.8	1636.9	1657.5	1669.9	1685.3	1688.4	1687.4
40°	1422.6	1441.2	1452.5	1469.0	1477.2	1477.2	1491.6	1503.0	1514.3	1515.3	1514.3
42.5°	1291.8	1301.1	1310.3	1320.6	1318.6	1330.9	1337.1	1342.3	1350.5	1350.5	1352.6
45°	1159.9	1167.1	1175.4	1177.5	1185.7	1185.7	1190.8	1192.9	1197.0	1193.9	1189.8
47.5°	1037.4	1040.4	1041.5	1050.7	1052.8	1045.6	1051.8	1052.8	1051.8	1051.8	1049.7
50°	920.9	923.0	922.0	918.9	919.9	923.0	919.9	915.8	917.9	917.9	919.9
52.5°	807.6	803.5	801.4	801.4	797.3	797.3	792.2	790.1	789.1	785.0	790.1
55°	703.6	697.4	688.1	686.1	683.0	682.0	675.8	670.6	668.6	669.6	668.6
57.5°	603.7	594.4	588.2	586.1	583.1	576.9	569.7	564.5	563.5	561.4	561.4
60°	513.0	502.7	493.4	484.2	485.2	481.1	473.9	470.8	467.7	463.6	466.7
62.5°	430.6	419.3	409.0	399.7	393.5	390.4	385.3	380.1	377.0	373.9	378.1
65°	349.2	339.9	328.6	319.3	316.3	313.2	308.0	299.8	298.7	298.7	300.8
67.5°	276.1	265.8	255.5	249.3	245.2	241.1	239.0	234.9	231.8	229.7	230.8
70°	212.2	201.9	193.7	187.5	184.4	183.4	176.2	175.1	174.1	173.1	172.0
72.5°	154.5	146.3	139.1	134.9	130.8	127.7	125.7	122.6	121.6	121.6	121.6
75°	106.1	99.9	91.7	86.5	84.5	81.4	78.3	76.2	74.2	75.2	75.2
77.5°	63.9	57.7	52.5	48.4	47.4	44.3	41.2	39.1	36.1	36.1	37.1
80°	35.0	29.9	25.8	22.7	20.6	19.6	16.5	15.5	13.4	12.4	12.4
82.5°	15.5	12.4	10.3	9.3	8.2	7.2	6.2	5.2	5.2	4.1	5.2
85°	5.2	4.1	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



TEST NUMBER: P879467

CATALOG NUMBER: LD4C60D010 EU4609050 4LBDWWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6
2.5°	2752.5	2752.5	2751.5	2751.5	2751.5	2749.4	2749.4	2748.4	2747.4	2746.4	2744.3
5°	2745.3	2744.3	2742.2	2741.2	2740.2	2737.1	2734.0	2731.9	2728.8	2724.7	2722.7
7.5°	2735.0	2731.9	2727.8	2725.8	2722.7	2715.5	2710.3	2705.1	2700.0	2692.8	2684.5
10°	2717.5	2711.3	2705.1	2701.0	2695.9	2686.6	2676.3	2668.1	2656.7	2646.4	2635.1
12.5°	2692.8	2685.6	2673.2	2667.0	2660.9	2647.5	2634.1	2616.6	2601.1	2586.7	2573.3
15°	2661.9	2648.5	2634.1	2625.8	2616.6	2594.9	2574.3	2555.8	2535.2	2517.7	2496.0
17.5°	2616.6	2597.0	2576.4	2567.1	2554.7	2530.0	2505.3	2479.5	2455.9	2434.2	2407.4
20°	2548.6	2526.9	2500.2	2485.7	2475.4	2442.5	2418.8	2389.9	2365.2	2338.4	2308.5
22.5°	2469.2	2439.4	2409.5	2388.9	2377.6	2344.6	2312.7	2286.9	2260.1	2229.2	2207.6
25°	2379.6	2342.5	2306.5	2285.9	2268.4	2233.3	2202.4	2175.7	2142.7	2115.9	2094.3
27.5°	2278.7	2236.4	2194.2	2173.6	2157.1	2119.0	2086.0	2058.2	2026.3	2002.6	1979.9
30°	2158.1	2120.0	2079.9	2063.4	2043.8	2004.7	1966.5	1941.8	1906.8	1882.1	1857.3
32.5°	2007.7	1983.0	1951.1	1928.4	1918.1	1882.1	1850.1	1820.3	1790.4	1770.8	1746.1
35°	1842.9	1821.3	1794.5	1782.1	1768.8	1746.1	1720.3	1694.6	1670.9	1652.3	1629.7
37.5°	1676.0	1654.4	1637.9	1624.5	1616.3	1595.7	1580.2	1560.7	1544.2	1526.7	1514.3
40°	1503.0	1496.8	1479.3	1473.1	1471.0	1448.4	1435.0	1419.5	1409.2	1398.9	1391.7
42.5°	1349.5	1339.2	1325.8	1326.8	1320.6	1308.3	1299.0	1288.7	1281.5	1276.3	1269.1
45°	1198.1	1189.8	1183.6	1188.8	1178.5	1174.4	1167.1	1166.1	1161.0	1151.7	1148.6
47.5°	1053.8	1052.8	1053.8	1050.7	1048.7	1046.6	1047.7	1042.5	1037.4	1034.3	1030.1
50°	922.0	923.0	925.1	928.2	920.9	924.0	923.0	922.0	922.0	918.9	920.9
52.5°	794.2	795.3	797.3	800.4	801.4	801.4	804.5	806.6	810.7	815.9	815.9
55°	673.7	680.9	685.0	690.2	687.1	693.3	696.4	705.6	708.7	708.7	712.9
57.5°	566.6	573.8	576.9	583.1	585.1	590.3	598.5	603.7	610.9	617.1	623.2
60°	468.7	471.8	480.0	489.3	487.3	499.6	505.8	514.0	523.3	527.4	535.7
62.5°	381.2	385.3	391.5	394.5	401.8	407.9	422.4	430.6	438.8	449.1	457.4
65°	302.9	307.0	313.2	319.3	322.4	331.7	338.9	353.3	360.5	371.9	381.2
67.5°	231.8	238.0	243.1	247.2	249.3	258.6	269.9	276.1	289.5	300.8	308.0
70°	173.1	178.2	184.4	183.4	187.5	194.7	202.9	212.2	222.5	232.8	241.1
72.5°	120.5	125.7	129.8	130.8	134.9	140.1	146.3	153.5	161.7	172.0	183.4
75°	76.2	77.3	81.4	83.4	85.5	91.7	96.8	104.0	111.3	119.5	126.7
77.5°	38.1	41.2	43.3	45.3	46.4	51.5	56.7	62.8	69.0	77.3	84.5
80°	14.4	15.5	18.5	19.6	21.6	24.7	28.8	31.9	37.1	43.3	47.4
82.5°	5.2	6.2	7.2	7.2	8.2	10.3	11.3	14.4	17.5	19.6	21.6
85°	2.1	2.1	2.1	2.1	2.1	3.1	3.1	4.1	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: P879467

CATALOG NUMBER: LD4C60D010 EU4609050 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6	2754.6
2.5°	2743.3	2743.3	2742.2	2741.2	2741.2	2741.2	2740.2	2740.2
5°	2718.5	2715.5	2714.4	2712.4	2711.3	2710.3	2707.2	2707.2
7.5°	2678.4	2674.2	2671.2	2668.1	2663.9	2660.9	2660.9	2656.7
10°	2624.8	2616.6	2612.4	2608.3	2603.2	2597.0	2594.9	2591.8
12.5°	2559.9	2543.4	2539.3	2532.1	2523.8	2519.7	2512.5	2512.5
15°	2479.5	2462.0	2452.8	2448.6	2438.3	2431.1	2428.0	2419.8
17.5°	2385.8	2372.4	2358.0	2351.8	2340.5	2331.2	2327.1	2326.1
20°	2291.0	2269.4	2260.1	2250.9	2237.5	2229.2	2223.0	2214.8
22.5°	2181.8	2162.3	2148.9	2142.7	2131.4	2116.9	2106.6	2106.6
25°	2066.5	2048.9	2041.7	2028.3	2015.0	2009.8	1997.4	1995.4
27.5°	1956.2	1938.7	1924.3	1917.1	1901.6	1894.4	1884.1	1880.0
30°	1841.9	1821.3	1811.0	1810.0	1791.4	1784.2	1776.0	1771.8
32.5°	1727.5	1710.0	1699.7	1693.6	1685.3	1672.9	1665.7	1661.6
35°	1614.2	1602.9	1593.6	1586.4	1573.0	1566.8	1560.7	1555.5
37.5°	1495.8	1485.5	1481.3	1475.2	1469.0	1457.6	1455.6	1451.5
40°	1381.4	1368.0	1368.0	1363.9	1357.7	1356.7	1353.6	1353.6
42.5°	1261.9	1255.7	1254.7	1255.7	1251.6	1249.6	1246.5	1253.7
45°	1143.5	1146.5	1141.4	1142.4	1140.4	1144.5	1144.5	1148.6
47.5°	1034.3	1030.1	1032.2	1034.3	1037.4	1037.4	1036.3	1035.3
50°	917.9	922.0	926.1	920.9	923.0	924.0	918.9	919.9
52.5°	817.9	819.0	822.1	819.0	822.1	821.0	823.1	819.0
55°	721.1	721.1	725.2	726.2	727.3	730.4	731.4	734.5
57.5°	627.4	632.5	637.7	636.6	640.7	644.9	641.8	644.9
60°	546.0	550.1	555.2	557.3	560.4	562.5	562.5	564.5
62.5°	463.6	471.8	475.9	480.0	480.0	484.2	488.3	489.3
65°	389.4	398.7	401.8	404.8	406.9	411.0	416.2	415.1
67.5°	319.3	325.5	329.6	331.7	337.9	339.9	344.1	348.2
70°	250.3	258.6	261.7	265.8	270.9	275.0	279.2	281.2
72.5°	191.6	197.8	199.8	204.0	209.1	213.2	215.3	218.4
75°	133.9	144.2	145.2	148.3	152.5	157.6	160.7	159.7
77.5°	88.6	95.8	96.8	101.0	105.1	109.2	110.2	111.3
80°	52.5	56.7	57.7	59.7	62.8	64.9	67.0	69.0
82.5°	24.7	26.8	28.8	28.8	30.9	33.0	33.0	34.0
85°	8.2	8.2	9.3	9.3	10.3	10.3	11.3	10.3
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)