

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: P879470

Luminaire Tested: **LD4C65D010 EU4659030 4LBDWWH**

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: P879470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/1/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C65D010 EU4659030 4LBLDWWH  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

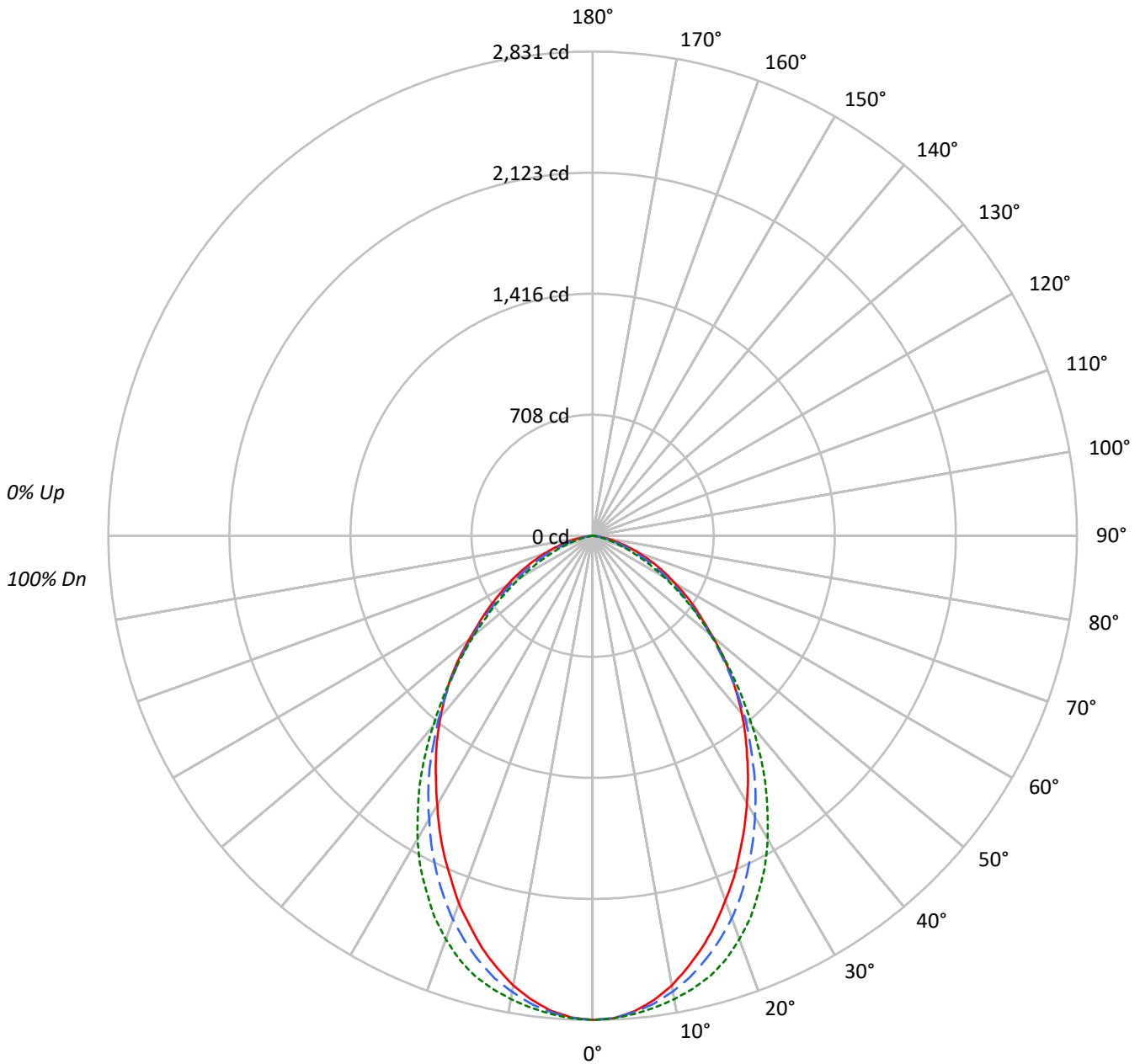
Lumens per Lamp: N/A  
Luminaire Lumens: 5063.0 lumens  
Efficiency: N/A  
Efficacy: 69.9 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
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: P879470

CATALOG NUMBER: LD4C65D010 EU4659030 4LBLDWWH

### 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	100	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59	59	59	59
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52	52	52	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47	47	47	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42	42	42	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38	38	38	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32	32	32	32

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

	0°	90°	180°
0°	347749	347749	347749
5°	344206	346130	343824
10°	333017	343134	333141
15°	316391	338738	317447
20°	296540	328074	298998
25°	276191	311272	278726
30°	255857	290357	257772
35°	236033	263943	239632
40°	217724	232558	221733
45°	197231	201557	203190
50°	174842	172644	179219
55°	155865	145391	159420
60°	136392	118013	141503
65°	119360	91250	123604
70°	100432	66847	105677
75°	78463	43432	82877
80°	51505	22781	56599
85°	17620	10290	23399



TEST NUMBER: P879470

CATALOG NUMBER: LD4C65D010 EU4659030 4LBLDWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.2	5.2
10°-20°	722.0	14.3
20°-30°	993.0	19.6
30°-40°	1035.9	20.5
40°-50°	886.3	17.5
50°-60°	633.9	12.5
60°-70°	367.8	7.3
70°-80°	141.8	2.8
80°-90°	18.0	0.4
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°	1979.2	39.1
0°-40°	3015.1	59.6
0°-60°	4535.3	89.6
0°-90°	5063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5063.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2831	2831	2831	2831	2831	
5°	2791	2796	2807	2796	2788	263
15°	2488	2562	2663	2572	2496	697
25°	2038	2150	2296	2163	2056	937
35°	1574	1636	1760	1662	1598	986
45°	1135	1126	1160	1154	1170	875
55°	728	691	679	710	744	651
65°	411	363	314	375	425	409
75°	165	124	92	131	175	178
85°	12	9	7	10	17	24
90°	0	0	0	0	0	



TEST NUMBER: P879470

CATALOG NUMBER: LD4C65D010 EU4659030 4LBDWVWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2823.4	2821.3	2822.3	2822.3	2822.3	2821.3	2823.4	2823.4	2822.3	2822.3	2822.3
5°	2791.1	2789.1	2790.1	2791.1	2791.1	2791.1	2792.2	2793.2	2794.3	2795.3	2796.3
7.5°	2739.2	2736.0	2739.2	2743.3	2743.3	2744.4	2745.4	2746.4	2749.6	2754.7	2757.9
10°	2669.5	2669.5	2670.5	2673.7	2678.9	2677.8	2680.9	2686.1	2692.4	2699.7	2704.9
12.5°	2581.1	2583.2	2586.3	2589.5	2594.7	2597.8	2603.0	2609.2	2619.6	2630.0	2641.4
15°	2487.6	2488.6	2489.7	2496.9	2502.1	2509.4	2513.6	2526.1	2535.4	2550.0	2562.4
17.5°	2382.6	2381.6	2384.7	2390.9	2403.4	2406.5	2411.7	2425.2	2438.7	2458.5	2475.1
20°	2268.2	2274.5	2278.6	2287.0	2294.2	2302.6	2306.7	2323.3	2338.9	2357.6	2379.5
22.5°	2160.1	2154.9	2162.2	2171.6	2177.8	2184.0	2191.3	2209.0	2225.6	2248.5	2270.3
25°	2037.5	2040.6	2045.8	2053.1	2061.4	2069.7	2078.0	2096.7	2106.1	2130.0	2149.7
27.5°	1921.0	1926.2	1928.3	1937.7	1945.0	1951.2	1955.4	1977.2	1985.5	2006.3	2026.0
30°	1803.6	1808.8	1808.8	1819.2	1824.4	1830.6	1841.0	1855.6	1868.0	1882.6	1897.1
32.5°	1690.3	1690.3	1694.4	1703.8	1709.0	1716.3	1719.4	1729.8	1742.2	1756.8	1772.4
35°	1573.8	1577.0	1581.1	1581.1	1590.5	1594.6	1598.8	1609.2	1617.5	1623.7	1636.2
37.5°	1466.8	1466.8	1463.7	1468.9	1475.1	1474.1	1480.3	1485.5	1490.7	1498.0	1508.4
40°	1357.6	1357.6	1353.5	1356.6	1360.7	1359.7	1357.6	1362.8	1367.0	1372.2	1382.6
42.5°	1246.4	1244.3	1243.3	1243.3	1245.4	1243.3	1245.4	1246.4	1246.4	1246.4	1252.6
45°	1135.2	1140.4	1134.1	1132.0	1128.9	1125.8	1124.8	1125.8	1130.0	1124.8	1125.8
47.5°	1026.0	1028.1	1023.9	1020.8	1017.7	1015.6	1017.7	1011.5	1013.5	1014.6	1010.4
50°	914.8	910.6	910.6	907.5	908.5	907.5	905.4	903.3	903.3	898.2	895.0
52.5°	811.9	814.0	816.0	808.8	809.8	804.6	805.6	800.4	800.4	794.2	796.3
55°	727.7	724.6	724.6	721.4	720.4	715.2	714.2	711.0	703.8	699.6	691.3
57.5°	640.3	639.3	635.2	636.2	630.0	628.9	626.8	621.6	616.4	611.2	601.9
60°	555.1	556.1	556.1	554.1	550.9	545.8	546.8	539.5	532.2	522.9	514.6
62.5°	484.4	481.3	480.3	478.2	471.9	471.9	466.7	461.6	454.3	444.9	437.6
65°	410.6	411.7	408.5	405.4	399.2	398.1	394.0	389.8	382.5	373.2	362.8
67.5°	344.1	342.0	341.0	337.8	331.6	330.6	327.5	318.1	311.9	302.5	294.2
70°	279.6	277.6	278.6	273.4	267.2	264.0	263.0	255.7	246.4	239.1	230.8
72.5°	219.3	219.3	218.3	213.1	210.0	207.9	203.7	195.4	190.2	181.9	175.7
75°	165.3	164.2	162.2	159.0	154.9	152.8	150.7	145.5	138.3	128.9	123.7
77.5°	114.3	115.4	113.3	112.3	107.1	104.0	102.9	99.8	93.6	87.3	82.1
80°	72.8	71.7	70.7	68.6	67.6	66.5	63.4	61.3	55.1	52.0	48.9
82.5°	39.5	37.4	37.4	36.4	34.3	33.3	32.2	30.1	29.1	27.0	24.9
85°	12.5	13.5	12.5	12.5	12.5	11.4	11.4	11.4	10.4	10.4	9.4
87.5°	1.0	2.1	1.0	1.0	2.1	1.0	1.0	2.1	1.0	1.0	2.1
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: P879470

CATALOG NUMBER: LD4C65D010 EU4659030 4LBLDWWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2822.3	2823.4	2823.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4	2824.4
5°	2799.4	2799.4	2801.5	2803.6	2803.6	2803.6	2804.6	2806.7	2806.7	2806.7	2805.7
7.5°	2762.0	2766.2	2770.3	2774.5	2775.5	2776.6	2778.7	2782.8	2782.8	2782.8	2782.8
10°	2713.2	2722.5	2727.7	2734.0	2737.1	2739.2	2745.4	2746.4	2749.6	2750.6	2749.6
12.5°	2650.8	2663.3	2674.7	2685.1	2689.3	2693.4	2699.7	2705.9	2709.0	2712.1	2711.1
15°	2581.1	2594.7	2612.3	2623.8	2632.1	2638.3	2647.7	2656.0	2661.2	2663.3	2663.3
17.5°	2496.9	2513.6	2532.3	2551.0	2556.2	2566.6	2577.0	2588.4	2594.7	2595.7	2594.7
20°	2403.4	2422.1	2437.7	2456.4	2467.8	2473.0	2487.6	2502.1	2508.4	2509.4	2508.4
22.5°	2292.2	2309.8	2330.6	2350.4	2359.7	2369.1	2384.7	2399.2	2407.5	2413.8	2407.5
25°	2168.5	2193.4	2213.2	2229.8	2243.3	2252.7	2272.4	2283.8	2297.4	2296.3	2297.4
27.5°	2046.8	2067.6	2089.5	2109.2	2117.5	2127.9	2143.5	2162.2	2173.7	2180.9	2179.9
30°	1922.1	1938.7	1957.4	1975.1	1988.6	1996.9	2019.8	2028.1	2042.7	2046.8	2043.7
32.5°	1790.1	1801.5	1820.2	1844.1	1849.3	1857.6	1872.2	1893.0	1898.2	1900.3	1901.3
35°	1649.7	1671.6	1687.2	1701.7	1705.9	1713.1	1729.8	1745.4	1750.6	1759.9	1755.8
37.5°	1519.8	1532.3	1539.5	1554.1	1566.6	1572.8	1581.1	1591.5	1601.9	1606.1	1605.0
40°	1389.8	1396.1	1402.3	1417.9	1419.0	1419.0	1431.4	1446.0	1446.0	1450.1	1450.1
42.5°	1256.8	1257.8	1266.1	1274.5	1276.5	1278.6	1291.1	1293.2	1299.4	1302.5	1306.7
45°	1127.9	1134.1	1139.3	1140.4	1145.6	1146.6	1149.7	1152.8	1162.2	1160.1	1162.2
47.5°	1010.4	1013.5	1016.7	1016.7	1019.8	1018.7	1023.9	1020.8	1027.1	1029.1	1032.3
50°	895.0	900.2	897.1	899.2	898.2	901.3	899.2	899.2	899.2	903.3	906.5
52.5°	789.0	790.0	786.9	788.0	788.0	785.9	788.0	786.9	785.9	785.9	786.9
55°	691.3	687.1	685.0	680.9	675.7	681.9	678.8	676.7	680.9	678.8	680.9
57.5°	596.7	591.5	587.3	585.3	578.0	582.1	578.0	575.9	575.9	575.9	581.1
60°	507.3	502.1	496.9	490.7	489.6	487.5	485.5	480.3	481.3	480.3	482.3
62.5°	429.3	418.9	411.7	406.5	405.4	402.3	399.2	394.0	395.0	395.0	396.1
65°	357.6	346.2	335.8	328.5	328.5	323.3	318.1	318.1	311.9	313.9	315.0
67.5°	285.9	276.5	266.1	260.9	257.8	253.6	250.5	248.4	245.3	245.3	247.4
70°	221.4	212.1	206.9	198.5	197.5	194.4	190.2	187.1	186.1	186.1	185.0
72.5°	167.4	159.0	152.8	147.6	144.5	141.4	137.2	136.2	134.1	134.1	136.2
75°	116.4	111.2	106.0	100.8	98.8	97.7	94.6	92.5	92.5	91.5	92.5
77.5°	78.0	72.8	67.6	65.5	63.4	61.3	60.3	59.3	56.1	56.1	56.1
80°	44.7	42.6	40.5	37.4	37.4	36.4	34.3	33.3	32.2	32.2	32.2
82.5°	22.9	21.8	19.8	18.7	18.7	18.7	17.7	17.7	16.6	16.6	16.6
85°	9.4	8.3	7.3	7.3	7.3	7.3	7.3	7.3	8.3	7.3	8.3
87.5°	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P879470

CATALOG NUMBER: LD4C65D010 EU4659030 4LBLDWWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2824.4	2823.4	2823.4	2823.4	2823.4	2823.4	2822.3	2822.3	2821.3	2821.3	2821.3
5°	2806.7	2805.7	2804.6	2803.6	2802.6	2801.5	2800.5	2799.4	2796.3	2795.3	2793.2
7.5°	2781.8	2779.7	2776.6	2775.5	2773.5	2770.3	2766.2	2764.1	2759.9	2754.7	2752.7
10°	2748.5	2744.4	2741.2	2736.0	2735.0	2730.8	2720.4	2715.2	2708.0	2701.7	2694.5
12.5°	2708.0	2703.8	2696.5	2689.3	2685.1	2675.7	2666.4	2658.1	2648.7	2635.2	2624.8
15°	2658.1	2651.8	2637.3	2635.2	2629.0	2614.4	2601.9	2586.3	2571.8	2557.2	2544.8
17.5°	2591.5	2578.0	2570.8	2561.4	2554.1	2535.4	2521.9	2504.2	2484.5	2467.8	2450.2
20°	2504.2	2489.7	2477.2	2472.0	2462.6	2446.0	2429.4	2407.5	2387.8	2367.0	2351.4
22.5°	2400.3	2390.9	2372.2	2366.0	2354.5	2337.9	2318.1	2297.4	2278.6	2255.8	2235.0
25°	2289.0	2275.5	2261.0	2248.5	2240.2	2224.6	2199.6	2184.0	2163.3	2138.3	2122.7
27.5°	2170.5	2154.9	2134.2	2125.8	2118.6	2097.8	2077.0	2057.2	2040.6	2018.8	2005.2
30°	2033.3	2021.9	2008.4	1998.0	1987.6	1970.9	1952.2	1929.4	1911.7	1901.3	1882.6
32.5°	1894.0	1884.7	1867.0	1861.8	1850.4	1836.8	1823.3	1806.7	1788.0	1772.4	1757.8
35°	1745.4	1736.0	1723.5	1714.2	1710.0	1700.7	1686.1	1671.6	1662.2	1644.5	1637.3
37.5°	1596.7	1593.6	1581.1	1571.8	1568.6	1557.2	1549.9	1539.5	1526.0	1521.9	1513.6
40°	1443.9	1441.8	1434.5	1433.5	1427.3	1424.2	1413.8	1405.4	1399.2	1396.1	1390.9
42.5°	1303.6	1301.5	1295.3	1296.3	1290.1	1288.0	1286.9	1279.7	1274.5	1268.2	1269.3
45°	1165.3	1163.2	1159.1	1157.0	1160.1	1159.1	1157.0	1153.9	1153.9	1154.9	1151.8
47.5°	1032.3	1034.3	1030.2	1032.3	1032.3	1029.1	1029.1	1033.3	1034.3	1036.4	1038.5
50°	906.5	912.7	910.6	913.7	914.8	915.8	912.7	917.9	916.9	926.2	924.1
52.5°	792.1	793.2	797.3	798.4	799.4	800.4	805.6	809.8	810.8	815.0	822.3
55°	681.9	683.0	691.3	691.3	696.5	697.5	704.8	706.9	710.0	721.4	723.5
57.5°	578.0	584.2	588.4	590.5	593.6	598.8	602.9	612.3	617.5	624.8	632.0
60°	484.4	491.7	496.9	499.0	503.1	509.4	514.6	525.0	534.3	542.6	547.8
62.5°	398.1	404.4	408.5	415.8	415.8	421.0	433.5	439.7	450.1	457.4	466.7
65°	321.2	325.4	332.6	332.6	336.8	345.1	355.5	364.9	375.3	385.7	395.0
67.5°	251.6	254.7	258.8	263.0	265.1	275.5	283.8	297.3	306.7	313.9	325.4
70°	190.2	192.3	197.5	201.7	204.8	212.1	221.4	230.8	240.1	248.4	259.9
72.5°	136.2	140.3	145.5	148.7	150.7	155.9	165.3	174.6	183.0	191.3	197.5
75°	93.6	96.7	98.8	101.9	105.0	109.2	115.4	121.6	131.0	139.3	146.6
77.5°	58.2	61.3	64.5	65.5	66.5	70.7	74.8	81.1	87.3	93.6	98.8
80°	34.3	35.3	36.4	37.4	39.5	42.6	44.7	48.9	53.0	57.2	62.4
82.5°	17.7	18.7	19.8	19.8	19.8	20.8	23.9	26.0	27.0	29.1	32.2
85°	7.3	7.3	7.3	8.3	8.3	9.4	9.4	10.4	10.4	11.4	12.5
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P879470

CATALOG NUMBER: LD4C65D010 EU4659030 4LBLDWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6	2830.6
2.5°	2820.2	2820.2	2820.2	2819.2	2820.2	2820.2	2820.2	2819.2
5°	2793.2	2791.1	2791.1	2790.1	2789.1	2789.1	2790.1	2788.0
7.5°	2748.5	2745.4	2743.3	2743.3	2742.3	2741.2	2741.2	2736.0
10°	2690.3	2684.1	2684.1	2682.0	2673.7	2672.6	2670.5	2670.5
12.5°	2617.5	2610.3	2606.1	2600.9	2595.7	2591.5	2590.5	2586.3
15°	2531.2	2521.9	2514.6	2512.5	2504.2	2498.0	2498.0	2495.9
17.5°	2437.7	2423.1	2417.9	2412.7	2401.3	2400.3	2398.2	2388.8
20°	2331.7	2318.1	2310.9	2305.7	2298.4	2288.0	2285.9	2287.0
22.5°	2220.4	2201.7	2195.5	2190.3	2183.0	2173.7	2173.7	2166.4
25°	2105.0	2088.4	2082.2	2075.9	2064.5	2060.3	2055.1	2056.2
27.5°	1987.6	1972.0	1966.8	1955.4	1948.1	1942.9	1937.7	1937.7
30°	1864.9	1856.6	1848.3	1847.2	1832.7	1826.4	1821.3	1817.1
32.5°	1746.4	1736.0	1731.9	1727.7	1720.4	1712.1	1711.1	1703.8
35°	1630.0	1619.6	1614.4	1610.2	1601.9	1598.8	1595.7	1597.8
37.5°	1507.3	1505.2	1502.1	1496.9	1491.7	1490.7	1486.5	1491.7
40°	1386.7	1385.7	1381.5	1382.6	1382.6	1380.5	1382.6	1382.6
42.5°	1270.3	1270.3	1266.1	1268.2	1269.3	1271.3	1274.5	1276.5
45°	1157.0	1156.0	1157.0	1159.1	1157.0	1162.2	1166.3	1169.5
47.5°	1040.6	1041.6	1045.8	1046.8	1048.9	1056.2	1056.2	1056.2
50°	929.3	934.5	932.5	938.7	937.7	941.8	937.7	937.7
52.5°	823.3	828.5	829.5	830.6	836.8	837.9	837.9	836.8
55°	728.7	736.0	732.9	738.1	741.2	743.3	746.4	744.3
57.5°	641.4	644.5	647.6	648.7	652.8	654.9	657.0	654.9
60°	555.1	561.3	566.5	567.6	569.7	571.7	572.8	575.9
62.5°	474.0	484.4	486.5	487.5	492.7	495.9	497.9	500.0
65°	402.3	409.6	414.8	417.9	422.0	422.0	425.2	425.2
67.5°	332.6	339.9	343.0	345.1	351.4	352.4	357.6	357.6
70°	269.2	274.4	276.5	279.6	285.9	290.0	292.1	294.2
72.5°	207.9	214.1	217.3	221.4	225.6	228.7	229.7	232.9
75°	151.8	161.1	162.2	166.3	169.4	173.6	175.7	174.6
77.5°	106.0	109.2	113.3	115.4	118.5	121.6	124.7	124.7
80°	65.5	69.6	70.7	71.7	75.9	78.0	80.0	80.0
82.5°	34.3	36.4	38.5	39.5	41.6	41.6	42.6	43.7
85°	13.5	14.6	14.6	14.6	15.6	16.6	16.6	16.6
87.5°	2.1	3.1	2.1	2.1	3.1	3.1	3.1	3.1
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)