

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: P879476

Luminaire Tested: **LD4C65D010 EU4659050 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: P879476
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 EU4659050 4LBLDWWH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

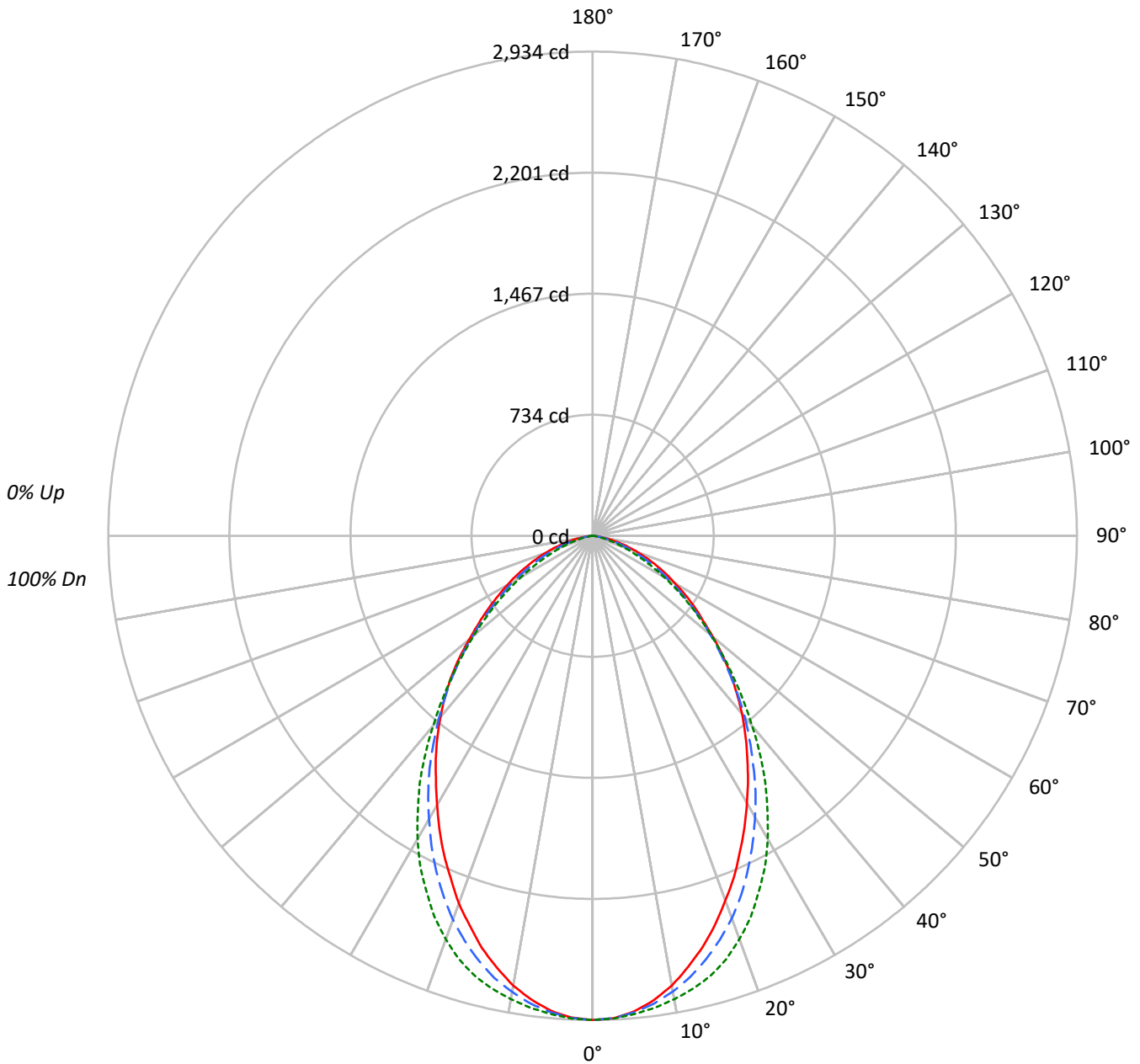
Lumens per Lamp: N/A
Luminaire Lumens: 5248.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P879476

CATALOG NUMBER: LD4C65D010 EU4659050 4LBLDWWH

Luminous Intensity Polar Plot





TEST NUMBER: P879476

CATALOG NUMBER: LD4C65D010 EU4659050 4LBLDWWH

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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59				59				
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52				52				
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	44	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°	360464	360464	360464
5°	356785	358783	356390
10°	345180	355671	345317
15°	327952	351113	329046
20°	307378	340062	309914
25°	286276	322645	288906
30°	265205	300968	267191
35°	244672	273587	248376
40°	225678	241058	229832
45°	204424	208924	210609
50°	181226	178970	185755
55°	161562	150703	165246
60°	141380	122313	146662
65°	123720	94593	128110
70°	104132	69290	109520
75°	81311	44999	85915
80°	53344	23630	58721
85°	18184	10572	24245



TEST NUMBER: P879476

CATALOG NUMBER: LD4C65D010 EU4659050 4LBLDWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	5.2
10°-20°	748.4	14.3
20°-30°	1029.3	19.6
30°-40°	1073.7	20.5
40°-50°	918.6	17.5
50°-60°	657.1	12.5
60°-70°	381.3	7.3
70°-80°	147.0	2.8
80°-90°	18.7	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°	2051.5	39.1
0°-40°	3125.3	59.6
0°-60°	4701.0	89.6
0°-90°	5248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5248.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2934	2934	2934	2934	2934	
5°	2893	2898	2909	2898	2890	272
15°	2578	2656	2761	2666	2587	723
25°	2112	2228	2380	2242	2131	971
35°	1631	1696	1824	1723	1656	1022
45°	1177	1167	1202	1196	1212	907
55°	754	716	704	736	772	675
65°	426	376	325	389	441	424
75°	171	128	95	136	181	184
85°	13	10	8	11	17	25
90°	0	0	0	0	0	



TEST NUMBER: P879476

CATALOG NUMBER: LD4C65D010 EU4659050 4LBLDWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1
2.5°	2926.5	2924.4	2925.4	2925.4	2925.4	2924.4	2926.5	2926.5	2925.4	2925.4	2925.4
5°	2893.1	2891.0	2892.0	2893.1	2893.1	2893.1	2894.2	2895.3	2896.4	2897.4	2898.5
7.5°	2839.2	2836.0	2839.2	2843.6	2843.6	2844.6	2845.7	2846.8	2850.0	2855.4	2858.6
10°	2767.0	2767.0	2768.1	2771.4	2776.7	2775.7	2778.9	2784.3	2790.8	2798.3	2803.7
12.5°	2675.5	2677.6	2680.8	2684.1	2689.5	2692.7	2698.1	2704.6	2715.3	2726.1	2738.0
15°	2578.5	2579.6	2580.6	2588.2	2593.6	2601.1	2605.4	2618.4	2628.1	2643.1	2656.1
17.5°	2469.7	2468.6	2471.8	2478.3	2491.2	2494.4	2499.8	2513.8	2527.8	2548.3	2565.6
20°	2351.1	2357.6	2361.9	2370.5	2378.1	2386.7	2391.0	2408.2	2424.4	2443.8	2466.4
22.5°	2239.1	2233.7	2241.2	2250.9	2257.4	2263.9	2271.4	2289.7	2307.0	2330.7	2353.3
25°	2111.9	2115.2	2120.5	2128.1	2136.7	2145.3	2153.9	2173.3	2183.0	2207.8	2228.3
27.5°	1991.2	1996.6	1998.8	2008.5	2016.0	2022.5	2026.8	2049.4	2058.0	2079.6	2100.1
30°	1869.5	1874.9	1874.9	1885.6	1891.0	1897.5	1908.3	1923.4	1936.3	1951.4	1966.5
32.5°	1752.0	1752.0	1756.3	1766.0	1771.4	1779.0	1782.2	1793.0	1805.9	1821.0	1837.2
35°	1631.4	1634.6	1638.9	1638.9	1648.6	1652.9	1657.2	1668.0	1676.6	1683.1	1696.0
37.5°	1520.4	1520.4	1517.1	1522.5	1529.0	1527.9	1534.4	1539.8	1545.2	1552.7	1563.5
40°	1407.2	1407.2	1402.9	1406.2	1410.5	1409.4	1407.2	1412.6	1416.9	1422.3	1433.1
42.5°	1291.9	1289.8	1288.7	1288.7	1290.9	1288.7	1290.9	1291.9	1291.9	1291.9	1298.4
45°	1176.6	1182.0	1175.6	1173.4	1170.2	1166.9	1165.9	1166.9	1171.3	1165.9	1166.9
47.5°	1063.5	1065.7	1061.3	1058.1	1054.9	1052.7	1054.9	1048.4	1050.6	1051.7	1047.3
50°	948.2	943.9	943.9	940.7	941.7	940.7	938.5	936.4	936.4	931.0	927.7
52.5°	841.5	843.7	845.8	838.3	839.4	834.0	835.1	829.7	829.7	823.2	825.4
55°	754.3	751.0	751.0	747.8	746.7	741.3	740.3	737.0	729.5	725.2	716.5
57.5°	663.7	662.7	658.4	659.4	653.0	651.9	649.7	644.4	639.0	633.6	623.9
60°	575.4	576.5	576.5	574.3	571.1	565.7	566.8	559.2	551.7	542.0	533.4
62.5°	502.1	498.9	497.8	495.7	489.2	489.2	483.8	478.4	470.9	461.2	453.6
65°	425.6	426.7	423.5	420.2	413.8	412.7	408.4	404.1	396.5	386.8	376.1
67.5°	356.7	354.5	353.4	350.2	343.7	342.6	339.4	329.7	323.3	313.6	304.9
70°	289.9	287.7	288.8	283.4	276.9	273.7	272.6	265.1	255.4	247.8	239.2
72.5°	227.4	227.4	226.3	220.9	217.7	215.5	211.2	202.6	197.2	188.6	182.1
75°	171.3	170.2	168.1	164.9	160.5	158.4	156.2	150.9	143.3	133.6	128.2
77.5°	118.5	119.6	117.4	116.4	111.0	107.8	106.7	103.4	97.0	90.5	85.1
80°	75.4	74.3	73.3	71.1	70.0	69.0	65.7	63.6	57.1	53.9	50.6
82.5°	40.9	38.8	38.8	37.7	35.6	34.5	33.4	31.2	30.2	28.0	25.9
85°	12.9	14.0	12.9	12.9	12.9	11.9	11.9	11.9	10.8	10.8	9.7
87.5°	1.1	2.2	1.1	1.1	2.2	1.1	1.1	2.2	1.1	1.1	2.2
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: P879476

CATALOG NUMBER: LD4C65D010 EU4659050 4LBDWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1
2.5°	2925.4	2926.5	2926.5	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6	2927.6
5°	2901.7	2901.7	2903.9	2906.0	2906.0	2906.0	2907.1	2909.3	2909.3	2909.3	2908.2
7.5°	2862.9	2867.3	2871.6	2875.9	2877.0	2878.0	2880.2	2884.5	2884.5	2884.5	2884.5
10°	2812.3	2822.0	2827.4	2833.9	2837.1	2839.2	2845.7	2846.8	2850.0	2851.1	2850.0
12.5°	2747.7	2760.6	2772.4	2783.2	2787.5	2791.8	2798.3	2804.8	2808.0	2811.2	2810.2
15°	2675.5	2689.5	2707.8	2719.6	2728.3	2734.7	2744.4	2753.0	2758.4	2760.6	2760.6
17.5°	2588.2	2605.4	2624.8	2644.2	2649.6	2660.4	2671.2	2683.0	2689.5	2690.5	2689.5
20°	2491.2	2510.6	2526.8	2546.2	2558.0	2563.4	2578.5	2593.6	2600.0	2601.1	2600.0
22.5°	2375.9	2394.2	2415.8	2436.3	2446.0	2455.6	2471.8	2486.9	2495.5	2502.0	2495.5
25°	2247.7	2273.5	2294.0	2311.3	2325.3	2335.0	2355.4	2367.3	2381.3	2380.2	2381.3
27.5°	2121.6	2143.2	2165.8	2186.3	2194.9	2205.7	2221.8	2241.2	2253.1	2260.6	2259.5
30°	1992.3	2009.6	2029.0	2047.3	2061.3	2069.9	2093.6	2102.2	2117.3	2121.6	2118.4
32.5°	1855.5	1867.3	1886.7	1911.5	1916.9	1925.5	1940.6	1962.1	1967.5	1969.7	1970.8
35°	1710.0	1732.6	1748.8	1763.9	1768.2	1775.7	1793.0	1809.1	1814.5	1824.2	1819.9
37.5°	1575.3	1588.3	1595.8	1610.9	1623.8	1630.3	1638.9	1649.7	1660.4	1664.8	1663.7
40°	1440.6	1447.1	1453.6	1469.7	1470.8	1470.8	1483.7	1498.8	1498.8	1503.1	1503.1
42.5°	1302.7	1303.8	1312.4	1321.0	1323.2	1325.3	1338.3	1340.4	1346.9	1350.1	1354.4
45°	1169.1	1175.6	1181.0	1182.0	1187.4	1188.5	1191.7	1195.0	1204.7	1202.5	1204.7
47.5°	1047.3	1050.6	1053.8	1053.8	1057.0	1056.0	1061.3	1058.1	1064.6	1066.7	1070.0
50°	927.7	933.1	929.9	932.0	931.0	934.2	932.0	932.0	932.0	936.4	939.6
52.5°	817.8	818.9	815.7	816.8	816.8	814.6	816.8	815.7	814.6	814.6	815.7
55°	716.5	712.2	710.1	705.8	700.4	706.8	703.6	701.5	705.8	703.6	705.8
57.5°	618.5	613.1	608.8	606.6	599.1	603.4	599.1	596.9	596.9	596.9	602.3
60°	525.8	520.4	515.1	508.6	507.5	505.4	503.2	497.8	498.9	497.8	500.0
62.5°	445.0	434.2	426.7	421.3	420.2	417.0	413.8	408.4	409.5	409.5	410.5
65°	370.7	358.8	348.0	340.5	340.5	335.1	329.7	329.7	323.3	325.4	326.5
67.5°	296.3	286.6	275.8	270.5	267.2	262.9	259.7	257.5	254.3	254.3	256.4
70°	229.5	219.8	214.4	205.8	204.7	201.5	197.2	194.0	192.9	192.9	191.8
72.5°	173.5	164.9	158.4	153.0	149.8	146.5	142.2	141.2	139.0	139.0	141.2
75°	120.7	115.3	109.9	104.5	102.4	101.3	98.1	95.9	95.9	94.8	95.9
77.5°	80.8	75.4	70.0	67.9	65.7	63.6	62.5	61.4	58.2	58.2	58.2
80°	46.3	44.2	42.0	38.8	38.8	37.7	35.6	34.5	33.4	33.4	33.4
82.5°	23.7	22.6	20.5	19.4	19.4	19.4	18.3	18.3	17.2	17.2	17.2
85°	9.7	8.6	7.5	7.5	7.5	7.5	7.5	7.5	8.6	7.5	8.6
87.5°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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: P879476

CATALOG NUMBER: LD4C65D010 EU4659050 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1
2.5°	2927.6	2926.5	2926.5	2926.5	2926.5	2926.5	2925.4	2925.4	2924.4	2924.4	2924.4
5°	2909.3	2908.2	2907.1	2906.0	2905.0	2903.9	2902.8	2901.7	2898.5	2897.4	2895.3
7.5°	2883.4	2881.3	2878.0	2877.0	2874.8	2871.6	2867.3	2865.1	2860.8	2855.4	2853.3
10°	2848.9	2844.6	2841.4	2836.0	2834.9	2830.6	2819.8	2814.5	2806.9	2800.5	2792.9
12.5°	2806.9	2802.6	2795.1	2787.5	2783.2	2773.5	2763.8	2755.2	2745.5	2731.5	2720.7
15°	2755.2	2748.7	2733.6	2731.5	2725.0	2709.9	2697.0	2680.8	2665.8	2650.7	2637.7
17.5°	2686.2	2672.2	2664.7	2655.0	2647.4	2628.1	2614.0	2595.7	2575.3	2558.0	2539.7
20°	2595.7	2580.6	2567.7	2562.3	2552.6	2535.4	2518.1	2495.5	2475.0	2453.5	2437.3
22.5°	2488.0	2478.3	2458.9	2452.4	2440.6	2423.3	2402.9	2381.3	2361.9	2338.2	2316.6
25°	2372.7	2358.7	2343.6	2330.7	2322.0	2305.9	2280.0	2263.9	2242.3	2216.4	2200.3
27.5°	2249.8	2233.7	2212.1	2203.5	2196.0	2174.4	2152.9	2132.4	2115.2	2092.5	2078.5
30°	2107.6	2095.8	2081.8	2071.0	2060.2	2043.0	2023.6	1999.9	1981.5	1970.8	1951.4
32.5°	1963.2	1953.5	1935.2	1929.8	1918.0	1904.0	1890.0	1872.7	1853.3	1837.2	1822.1
35°	1809.1	1799.4	1786.5	1776.8	1772.5	1762.8	1747.7	1732.6	1722.9	1704.6	1697.1
37.5°	1655.1	1651.8	1638.9	1629.2	1626.0	1614.1	1606.6	1595.8	1581.8	1577.5	1568.9
40°	1496.7	1494.5	1487.0	1485.9	1479.4	1476.2	1465.4	1456.8	1450.3	1447.1	1441.7
42.5°	1351.2	1349.0	1342.6	1343.7	1337.2	1335.0	1334.0	1326.4	1321.0	1314.6	1315.6
45°	1207.9	1205.7	1201.4	1199.3	1202.5	1201.4	1199.3	1196.0	1196.0	1197.1	1193.9
47.5°	1070.0	1072.1	1067.8	1070.0	1070.0	1066.7	1066.7	1071.0	1072.1	1074.3	1076.4
50°	939.6	946.1	943.9	947.1	948.2	949.3	946.1	951.4	950.4	960.1	957.9
52.5°	821.1	822.1	826.5	827.5	828.6	829.7	835.1	839.4	840.5	844.8	852.3
55°	706.8	707.9	716.5	716.5	721.9	723.0	730.6	732.7	735.9	747.8	749.9
57.5°	599.1	605.6	609.9	612.0	615.3	620.6	625.0	634.7	640.0	647.6	655.1
60°	502.1	509.7	515.1	517.2	521.5	528.0	533.4	544.1	553.8	562.5	567.8
62.5°	412.7	419.2	423.5	431.0	431.0	436.4	449.3	455.8	466.6	474.1	483.8
65°	333.0	337.3	344.8	344.8	349.1	357.7	368.5	378.2	389.0	399.8	409.5
67.5°	260.8	264.0	268.3	272.6	274.8	285.5	294.2	308.2	317.9	325.4	337.3
70°	197.2	199.3	204.7	209.0	212.3	219.8	229.5	239.2	248.9	257.5	269.4
72.5°	141.2	145.5	150.9	154.1	156.2	161.6	171.3	181.0	189.6	198.3	204.7
75°	97.0	100.2	102.4	105.6	108.8	113.1	119.6	126.1	135.8	144.4	151.9
77.5°	60.3	63.6	66.8	67.9	69.0	73.3	77.6	84.0	90.5	97.0	102.4
80°	35.6	36.6	37.7	38.8	40.9	44.2	46.3	50.6	55.0	59.3	64.7
82.5°	18.3	19.4	20.5	20.5	20.5	21.6	24.8	26.9	28.0	30.2	33.4
85°	7.5	7.5	7.5	8.6	8.6	9.7	9.7	10.8	10.8	11.9	12.9
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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: P879476

CATALOG NUMBER: LD4C65D010 EU4659050 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1	2934.1
2.5°	2923.3	2923.3	2923.3	2922.2	2923.3	2923.3	2923.3	2922.2
5°	2895.3	2893.1	2893.1	2892.0	2891.0	2891.0	2892.0	2889.9
7.5°	2848.9	2845.7	2843.6	2843.6	2842.5	2841.4	2841.4	2836.0
10°	2788.6	2782.1	2782.1	2780.0	2771.4	2770.3	2768.1	2768.1
12.5°	2713.2	2705.6	2701.3	2695.9	2690.5	2686.2	2685.2	2680.8
15°	2623.7	2614.0	2606.5	2604.3	2595.7	2589.3	2589.3	2587.1
17.5°	2526.8	2511.7	2506.3	2500.9	2489.1	2488.0	2485.8	2476.1
20°	2416.9	2402.9	2395.3	2389.9	2382.4	2371.6	2369.4	2370.5
22.5°	2301.6	2282.2	2275.7	2270.3	2262.8	2253.1	2253.1	2245.5
25°	2182.0	2164.7	2158.3	2151.8	2139.9	2135.6	2130.2	2131.3
27.5°	2060.2	2044.0	2038.7	2026.8	2019.3	2013.9	2008.5	2008.5
30°	1933.1	1924.4	1915.8	1914.7	1899.7	1893.2	1887.8	1883.5
32.5°	1810.2	1799.4	1795.1	1790.8	1783.3	1774.7	1773.6	1766.0
35°	1689.5	1678.8	1673.4	1669.1	1660.4	1657.2	1654.0	1656.1
37.5°	1562.4	1560.2	1557.0	1551.6	1546.2	1545.2	1540.8	1546.2
40°	1437.4	1436.3	1432.0	1433.1	1433.1	1430.9	1433.1	1433.1
42.5°	1316.7	1316.7	1312.4	1314.6	1315.6	1317.8	1321.0	1323.2
45°	1199.3	1198.2	1199.3	1201.4	1199.3	1204.7	1209.0	1212.2
47.5°	1078.6	1079.7	1084.0	1085.1	1087.2	1094.8	1094.8	1094.8
50°	963.3	968.7	966.5	973.0	971.9	976.2	971.9	971.9
52.5°	853.4	858.8	859.9	860.9	867.4	868.5	868.5	867.4
55°	755.3	762.9	759.6	765.0	768.3	770.4	773.7	771.5
57.5°	664.8	668.1	671.3	672.4	676.7	678.8	681.0	678.8
60°	575.4	581.9	587.2	588.3	590.5	592.6	593.7	596.9
62.5°	491.3	502.1	504.3	505.4	510.7	514.0	516.1	518.3
65°	417.0	424.5	429.9	433.2	437.5	437.5	440.7	440.7
67.5°	344.8	352.3	355.6	357.7	364.2	365.3	370.7	370.7
70°	279.1	284.5	286.6	289.9	296.3	300.6	302.8	304.9
72.5°	215.5	222.0	225.2	229.5	233.8	237.1	238.1	241.4
75°	157.3	167.0	168.1	172.4	175.6	179.9	182.1	181.0
77.5°	109.9	113.1	117.4	119.6	122.8	126.1	129.3	129.3
80°	67.9	72.2	73.3	74.3	78.7	80.8	83.0	83.0
82.5°	35.6	37.7	39.9	40.9	43.1	43.1	44.2	45.3
85°	14.0	15.1	15.1	15.1	16.2	17.2	17.2	17.2
87.5°	2.2	3.2	2.2	2.2	3.2	3.2	3.2	3.2
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)