

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: P880601

Luminaire Tested: **LD4C65D010 EU4659050 4LBDWNH**

Issue Date: 10/4/2024

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: P880601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251940)
Test Lab: INNOVATION CENTER
Issue Date: 10/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C65D010 EU4659050 4LBDWNH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBDWN TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

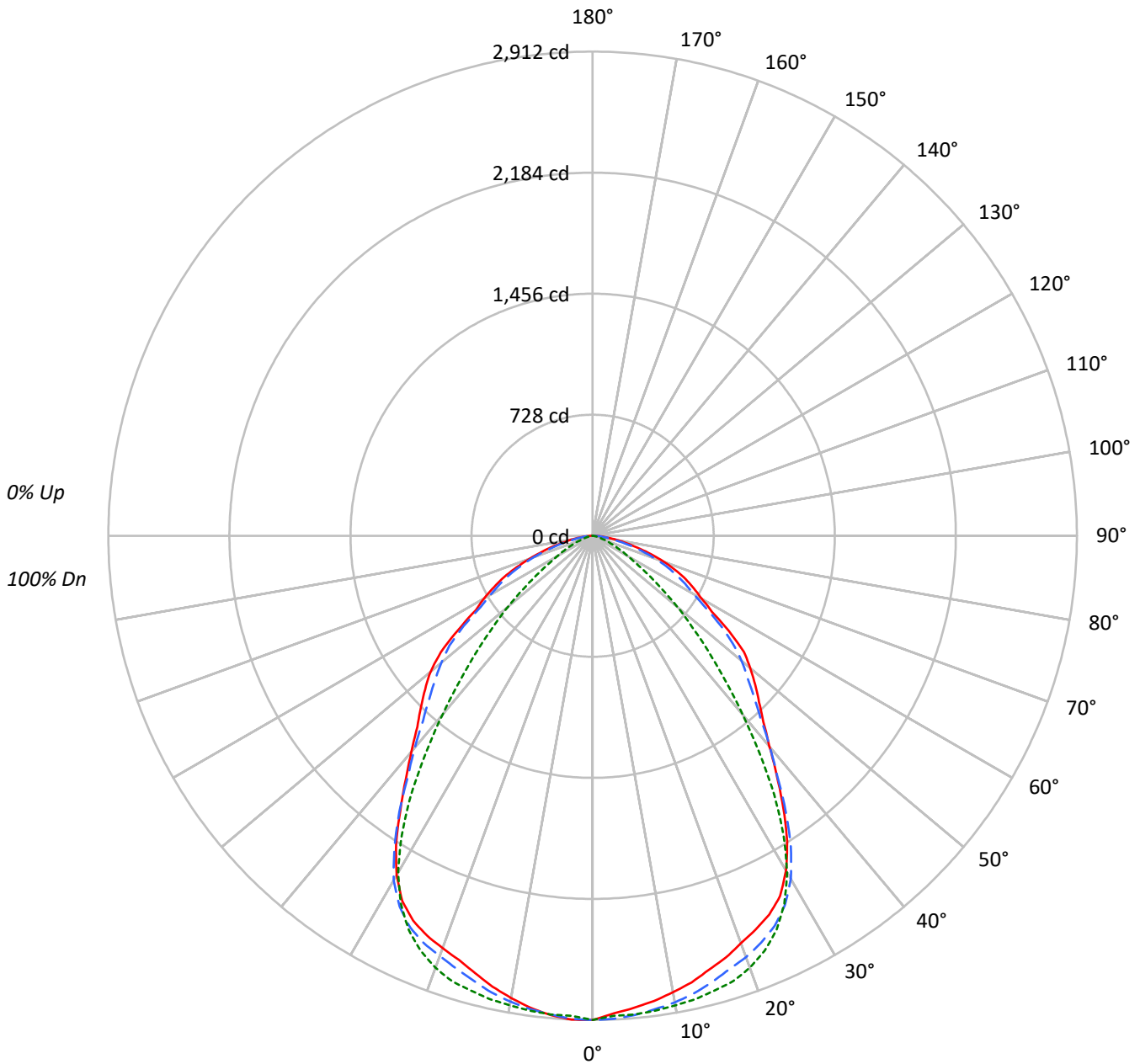
Lumens per Lamp: N/A
Luminaire Lumens: 5927.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	51																			
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41																			
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37																			
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34																			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	357774	357774	357774
5°	351433	356390	356933
10°	347662	357729	352128
15°	343622	360131	346458
20°	340899	361438	345004
25°	340715	354690	346177
30°	329865	331780	334319
35°	299698	285600	302382
40°	265146	224892	271593
45°	245983	171239	253784
50°	236366	126755	243208
55°	213996	87346	211104
60°	186049	59437	184968
65°	179737	43023	170610
70°	162502	28987	144793
75°	133952	19082	114823
80°	107821	12664	85606
85°	88522	6202	56665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	4.6
10°-20°	786.0	13.3
20°-30°	1187.5	20.0
30°-40°	1242.8	21.0
40°-50°	1006.5	17.0
50°-60°	732.1	12.4
60°-70°	451.5	7.6
70°-80°	204.0	3.4
80°-90°	41.5	0.7
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°	2248.5	37.9
0°-40°	3491.3	58.9
0°-60°	5230.0	88.2
0°-90°	5927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5927.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2912	2912	2912	2912	2912	
5°	2850	2894	2890	2890	2894	270
15°	2702	2778	2832	2769	2724	764
25°	2514	2590	2617	2599	2554	1152
35°	1998	2025	1904	2025	2016	1245
45°	1416	1371	986	1389	1461	1100
55°	999	936	408	945	986	891
65°	618	556	148	547	587	605
75°	282	242	40	210	242	306
85°	63	49	4	36	40	72
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°	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2
2.5°	2876.4	2876.4	2903.4	2934.6	2907.8	2880.8	2898.7	2889.9	2921.3	2921.3	2907.8
5°	2849.7	2858.5	2880.8	2907.8	2885.5	2858.5	2880.8	2872.0	2903.4	2903.4	2894.3
7.5°	2822.7	2827.1	2854.1	2885.5	2862.9	2836.2	2854.1	2849.7	2876.4	2880.8	2872.0
10°	2786.9	2791.3	2818.3	2849.7	2827.1	2804.8	2822.7	2818.3	2854.1	2854.1	2849.7
12.5°	2751.1	2755.5	2782.5	2809.2	2786.9	2764.6	2782.5	2782.5	2818.3	2822.7	2818.3
15°	2701.7	2710.5	2733.1	2759.9	2746.6	2719.6	2737.6	2737.6	2769.0	2777.8	2777.8
17.5°	2661.5	2665.9	2688.2	2715.2	2697.3	2674.7	2692.6	2692.6	2724.0	2733.1	2733.1
20°	2607.5	2616.6	2638.9	2665.9	2652.4	2634.5	2648.0	2648.0	2683.8	2692.6	2697.3
22.5°	2562.9	2571.7	2589.6	2625.7	2603.1	2589.6	2607.5	2603.1	2643.6	2648.0	2648.0
25°	2513.5	2522.6	2544.9	2567.3	2553.8	2540.5	2553.8	2553.8	2585.2	2589.6	2589.6
27.5°	2441.9	2446.3	2468.6	2491.2	2477.7	2459.8	2477.7	2473.3	2504.4	2509.1	2504.4
30°	2325.3	2334.4	2343.2	2374.7	2361.2	2347.7	2365.6	2356.7	2388.2	2388.2	2383.5
32.5°	2177.4	2177.4	2195.6	2217.9	2200.0	2190.9	2204.4	2208.8	2231.4	2231.4	2217.9
35°	1998.3	2007.4	2020.6	2034.1	2020.6	2011.8	2025.3	2020.6	2047.6	2038.5	2025.3
37.5°	1819.2	1823.6	1837.1	1855.0	1837.1	1823.6	1828.0	1823.6	1845.9	1845.9	1823.6
40°	1653.3	1662.4	1671.2	1689.1	1671.2	1662.4	1666.8	1653.3	1680.3	1671.2	1657.7
42.5°	1518.8	1523.2	1536.7	1545.8	1527.9	1523.2	1527.9	1518.8	1532.3	1523.2	1496.5
45°	1415.8	1415.8	1420.4	1433.7	1415.8	1411.3	1411.3	1402.3	1415.8	1397.8	1371.1
47.5°	1326.2	1330.6	1335.3	1344.1	1330.6	1317.4	1321.8	1303.9	1312.7	1299.2	1263.4
50°	1236.7	1245.5	1250.2	1259.0	1245.5	1236.7	1241.1	1223.1	1223.1	1200.8	1169.4
52.5°	1147.1	1151.5	1147.1	1155.9	1147.1	1133.6	1138.0	1120.1	1120.1	1093.4	1062.0
55°	999.1	1003.5	1008.2	1017.0	1008.2	994.7	1003.5	990.3	990.3	972.1	936.3
57.5°	851.2	855.8	860.3	864.7	864.7	855.8	860.3	851.2	846.8	833.3	806.5
60°	757.2	757.2	757.2	761.6	757.2	752.8	752.8	743.7	743.7	725.8	699.1
62.5°	685.6	690.0	690.0	694.4	690.0	685.6	681.2	672.1	667.6	649.7	627.1
65°	618.3	618.3	613.9	622.7	618.3	613.9	613.9	604.8	596.0	578.1	555.5
67.5°	537.6	542.0	537.6	542.0	542.0	537.6	533.2	524.1	519.7	506.2	479.5
70°	452.4	452.4	452.4	457.1	452.4	452.4	457.1	443.6	439.2	421.0	398.7
72.5°	367.3	372.0	372.0	367.3	372.0	362.9	362.9	362.9	358.5	340.6	318.0
75°	282.2	286.8	286.8	291.3	286.8	282.2	282.2	277.8	273.3	259.8	241.9
77.5°	210.5	210.5	214.9	214.9	214.9	210.5	210.5	201.7	201.7	192.6	174.7
80°	152.4	152.4	148.0	152.4	152.4	148.0	148.0	143.3	143.3	134.5	121.0
82.5°	98.6	103.1	103.1	103.1	103.1	98.6	98.6	98.6	94.0	89.6	80.7
85°	62.8	62.8	62.8	62.8	67.2	62.8	67.2	62.8	62.8	53.7	49.3
87.5°	27.0	27.0	27.0	31.4	31.4	27.0	27.0	27.0	27.0	27.0	22.3
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°	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2
2.5°	2907.8	2912.2	2898.7	2916.7	2903.4	2907.8	2912.2	2907.8	2889.9	2889.9	2939.3
5°	2889.9	2898.7	2885.5	2907.8	2898.7	2898.7	2907.8	2903.4	2885.5	2889.9	2934.6
7.5°	2872.0	2885.5	2876.4	2898.7	2885.5	2885.5	2894.3	2894.3	2876.4	2880.8	2921.3
10°	2845.0	2862.9	2858.5	2880.8	2867.6	2867.6	2880.8	2880.8	2862.9	2867.6	2907.8
12.5°	2822.7	2840.6	2836.2	2858.5	2849.7	2854.1	2858.5	2867.6	2845.0	2854.1	2889.9
15°	2786.9	2804.8	2804.8	2827.1	2818.3	2827.1	2836.2	2849.7	2831.5	2831.5	2867.6
17.5°	2746.6	2769.0	2769.0	2786.9	2786.9	2791.3	2809.2	2822.7	2804.8	2809.2	2840.6
20°	2701.7	2728.7	2728.7	2751.1	2746.6	2755.5	2769.0	2782.5	2764.6	2764.6	2800.4
22.5°	2656.8	2679.4	2683.8	2697.3	2697.3	2701.7	2715.2	2724.0	2701.7	2701.7	2737.6
25°	2594.3	2616.6	2621.0	2630.1	2621.0	2621.0	2630.1	2638.9	2616.6	2616.6	2648.0
27.5°	2509.1	2531.4	2531.4	2527.0	2517.9	2522.6	2517.9	2522.6	2500.0	2495.6	2527.0
30°	2383.5	2397.0	2397.0	2392.6	2379.1	2379.1	2365.6	2370.2	2338.8	2338.8	2365.6
32.5°	2213.5	2226.7	2217.9	2208.8	2190.9	2182.1	2173.0	2168.5	2137.1	2137.1	2168.5
35°	2011.8	2020.6	2007.4	1989.4	1966.8	1953.3	1940.1	1922.2	1899.6	1904.3	1922.2
37.5°	1805.7	1805.7	1787.7	1751.9	1734.0	1711.4	1689.1	1689.1	1653.3	1648.9	1662.4
40°	1631.0	1613.0	1581.6	1532.3	1500.9	1478.6	1447.2	1429.3	1402.3	1402.3	1424.8
42.5°	1474.2	1438.4	1397.8	1330.6	1299.2	1272.5	1232.2	1214.3	1182.9	1178.2	1191.7
45°	1335.3	1299.2	1241.1	1169.4	1129.2	1097.8	1039.4	1017.0	990.3	985.6	994.7
47.5°	1223.1	1182.9	1111.3	1017.0	976.8	936.3	878.2	846.8	824.4	810.9	824.4
50°	1124.5	1070.8	994.7	896.1	842.3	806.5	734.9	703.5	672.1	663.2	667.6
52.5°	1017.0	963.3	882.6	779.5	730.2	676.5	609.2	564.6	537.6	524.1	537.6
55°	900.5	846.8	766.3	663.2	609.2	560.2	488.3	452.4	421.0	407.8	421.0
57.5°	775.1	725.8	654.1	551.1	501.8	457.1	389.9	354.1	322.7	313.6	322.7
60°	667.6	627.1	555.5	457.1	416.6	367.3	309.2	273.3	246.3	241.9	246.3
62.5°	596.0	551.1	483.9	389.9	349.4	309.2	255.4	219.6	197.0	192.6	197.0
65°	524.1	475.0	412.2	331.5	291.3	259.8	206.1	174.7	152.4	148.0	152.4
67.5°	443.6	398.7	345.0	273.3	241.9	210.5	165.9	134.5	116.6	112.1	116.6
70°	367.3	327.1	273.3	219.6	188.2	165.9	125.4	103.1	85.1	80.7	85.1
72.5°	291.3	255.4	210.5	165.9	148.0	125.4	98.6	76.1	62.8	58.1	62.8
75°	224.0	197.0	161.2	121.0	107.5	94.0	67.2	53.7	44.9	40.2	44.9
77.5°	156.8	138.9	112.1	89.6	76.1	67.2	49.3	35.8	31.4	27.0	31.4
80°	107.5	94.0	76.1	58.1	49.3	40.2	31.4	22.3	17.9	17.9	17.9
82.5°	71.6	58.1	44.9	35.8	31.4	27.0	17.9	13.5	13.5	9.1	9.1
85°	40.2	35.8	27.0	22.3	17.9	13.5	9.1	9.1	4.4	4.4	4.4
87.5°	17.9	13.5	9.1	9.1	4.4	4.4	4.4	4.4	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°	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2
2.5°	2925.7	2912.2	2930.2	2912.2	2903.4	2912.2	2903.4	2930.2	2907.8	2889.9	2907.8
5°	2921.3	2903.4	2921.3	2907.8	2894.3	2898.7	2889.9	2916.7	2889.9	2876.4	2885.5
7.5°	2912.2	2898.7	2907.8	2894.3	2880.8	2885.5	2876.4	2898.7	2872.0	2858.5	2867.6
10°	2898.7	2885.5	2889.9	2880.8	2867.6	2867.6	2858.5	2876.4	2845.0	2827.1	2836.2
12.5°	2880.8	2862.9	2872.0	2858.5	2840.6	2840.6	2831.5	2845.0	2813.6	2795.7	2800.4
15°	2858.5	2840.6	2840.6	2827.1	2809.2	2809.2	2791.3	2804.8	2769.0	2751.1	2751.1
17.5°	2831.5	2809.2	2809.2	2795.7	2773.4	2769.0	2755.5	2769.0	2728.7	2710.5	2710.5
20°	2791.3	2773.4	2769.0	2759.9	2737.6	2733.1	2715.2	2719.6	2688.2	2674.7	2670.3
22.5°	2737.6	2719.6	2724.0	2710.5	2692.6	2688.2	2670.3	2683.8	2652.4	2638.9	2643.6
25°	2643.6	2634.5	2643.6	2638.9	2625.7	2625.7	2616.6	2625.7	2598.7	2589.6	2594.3
27.5°	2535.9	2531.4	2535.9	2535.9	2527.0	2527.0	2527.0	2540.5	2513.5	2509.1	2509.1
30°	2379.1	2379.1	2383.5	2388.2	2388.2	2397.0	2392.6	2410.5	2392.6	2383.5	2392.6
32.5°	2173.0	2190.9	2204.4	2204.4	2204.4	2213.5	2222.3	2235.8	2217.9	2222.3	2222.3
35°	1940.1	1953.3	1962.4	1984.8	1971.5	2002.7	2011.8	2029.7	2025.3	2034.1	2029.7
37.5°	1680.3	1698.2	1716.1	1747.5	1742.8	1778.7	1796.6	1832.4	1823.6	1841.5	1850.3
40°	1438.4	1465.1	1492.1	1514.4	1532.3	1568.1	1604.0	1648.9	1662.4	1675.6	1680.3
42.5°	1205.2	1232.2	1276.9	1308.3	1335.3	1393.4	1442.8	1496.5	1510.0	1536.7	1545.8
45°	1017.0	1039.4	1093.4	1133.6	1155.9	1241.1	1299.2	1366.4	1389.0	1420.4	1433.7
47.5°	842.3	882.6	936.3	985.6	1017.0	1106.6	1182.9	1254.6	1286.0	1321.8	1339.7
50°	690.0	734.9	806.5	851.2	896.1	994.7	1079.9	1155.9	1187.3	1227.6	1245.5
52.5°	564.6	613.9	681.2	730.2	779.5	882.6	972.1	1044.0	1084.3	1111.3	1138.0
55°	443.6	497.4	564.6	618.3	658.6	770.7	846.8	918.4	945.4	967.7	981.2
57.5°	345.0	385.2	452.4	497.4	546.7	645.1	721.4	775.1	797.4	824.4	833.3
60°	268.9	309.2	372.0	416.6	461.5	555.5	631.8	685.6	707.9	730.2	743.7
62.5°	214.9	255.4	313.6	354.1	394.3	479.5	546.7	600.4	627.1	649.7	663.2
65°	170.3	206.1	255.4	295.7	327.1	403.1	470.4	519.7	546.7	569.0	582.5
67.5°	134.5	165.9	210.5	237.5	268.9	331.5	389.9	434.5	457.1	483.9	497.4
70°	103.1	125.4	165.9	188.2	210.5	264.2	309.2	354.1	376.4	394.3	403.1
72.5°	76.1	94.0	125.4	143.3	156.8	201.7	237.5	268.9	286.8	304.8	313.6
75°	53.7	67.2	89.6	103.1	112.1	143.3	174.7	197.0	210.5	224.0	237.5
77.5°	35.8	44.9	58.1	67.2	76.1	98.6	116.6	134.5	148.0	161.2	165.9
80°	22.3	31.4	40.2	44.9	49.3	62.8	80.7	89.6	98.6	107.5	112.1
82.5°	13.5	17.9	22.3	27.0	31.4	40.2	49.3	58.1	62.8	71.6	76.1
85°	4.4	9.1	9.1	13.5	13.5	22.3	27.0	31.4	35.8	40.2	44.9
87.5°	0.0	0.0	4.4	4.4	4.4	4.4	9.1	9.1	9.1	9.1	9.1
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: P880601

CATALOG NUMBER: LD4C65D010 EU4659050 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2	2912.2
2.5°	2925.7	2912.2	2903.4	2898.7	2930.2	2889.9	2907.8	2912.2
5°	2907.8	2894.3	2885.5	2880.8	2907.8	2872.0	2885.5	2894.3
7.5°	2880.8	2872.0	2858.5	2854.1	2880.8	2840.6	2858.5	2862.9
10°	2849.7	2836.2	2827.1	2822.7	2845.0	2804.8	2822.7	2822.7
12.5°	2809.2	2800.4	2782.5	2782.5	2800.4	2764.6	2777.8	2777.8
15°	2755.5	2746.6	2728.7	2728.7	2746.6	2710.5	2724.0	2724.0
17.5°	2710.5	2701.7	2688.2	2683.8	2701.7	2665.9	2679.4	2674.7
20°	2674.7	2665.9	2648.0	2648.0	2661.5	2625.7	2638.9	2638.9
22.5°	2643.6	2638.9	2621.0	2621.0	2638.9	2603.1	2612.2	2603.1
25°	2594.3	2589.6	2571.7	2576.4	2585.2	2549.4	2562.9	2553.8
27.5°	2513.5	2513.5	2495.6	2491.2	2504.4	2473.3	2482.1	2477.7
30°	2388.2	2392.6	2370.2	2370.2	2374.7	2347.7	2361.2	2356.7
32.5°	2217.9	2222.3	2204.4	2200.0	2213.5	2190.9	2200.0	2200.0
35°	2029.7	2034.1	2020.6	2020.6	2034.1	2020.6	2020.6	2016.2
37.5°	1841.5	1850.3	1841.5	1845.9	1855.0	1841.5	1850.3	1845.9
40°	1689.1	1698.2	1684.7	1693.5	1702.6	1689.1	1702.6	1693.5
42.5°	1550.2	1563.7	1554.6	1563.7	1572.5	1563.7	1572.5	1559.3
45°	1447.2	1456.3	1451.6	1456.3	1465.1	1460.7	1465.1	1460.7
47.5°	1348.5	1366.4	1357.6	1366.4	1379.9	1371.1	1379.9	1366.4
50°	1259.0	1272.5	1268.1	1276.9	1281.3	1276.9	1286.0	1272.5
52.5°	1142.4	1155.9	1151.5	1151.5	1160.3	1151.5	1160.3	1151.5
55°	990.3	994.7	994.7	999.1	994.7	990.3	994.7	985.6
57.5°	842.3	851.2	837.9	851.2	846.8	842.3	842.3	833.3
60°	748.1	761.6	752.8	761.6	757.2	757.2	757.2	752.8
62.5°	672.1	681.2	672.1	676.5	676.5	676.5	672.1	667.6
65°	586.9	600.4	591.3	596.0	591.3	586.9	591.3	586.9
67.5°	501.8	506.2	506.2	501.8	501.8	501.8	501.8	493.0
70°	407.8	412.2	407.8	416.6	412.2	407.8	412.2	403.1
72.5°	318.0	322.7	318.0	322.7	318.0	318.0	318.0	318.0
75°	237.5	241.9	241.9	241.9	241.9	241.9	233.1	241.9
77.5°	170.3	170.3	170.3	174.7	170.3	170.3	170.3	170.3
80°	116.6	116.6	116.6	121.0	116.6	121.0	116.6	121.0
82.5°	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
85°	40.2	44.9	44.9	40.2	40.2	40.2	40.2	40.2
87.5°	9.1	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)