

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: P880602

Luminaire Tested: **LD4C70D010 EU4709027 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: P880602
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: LD4C70D010 EU4709027 4LBDWNH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBDWN TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

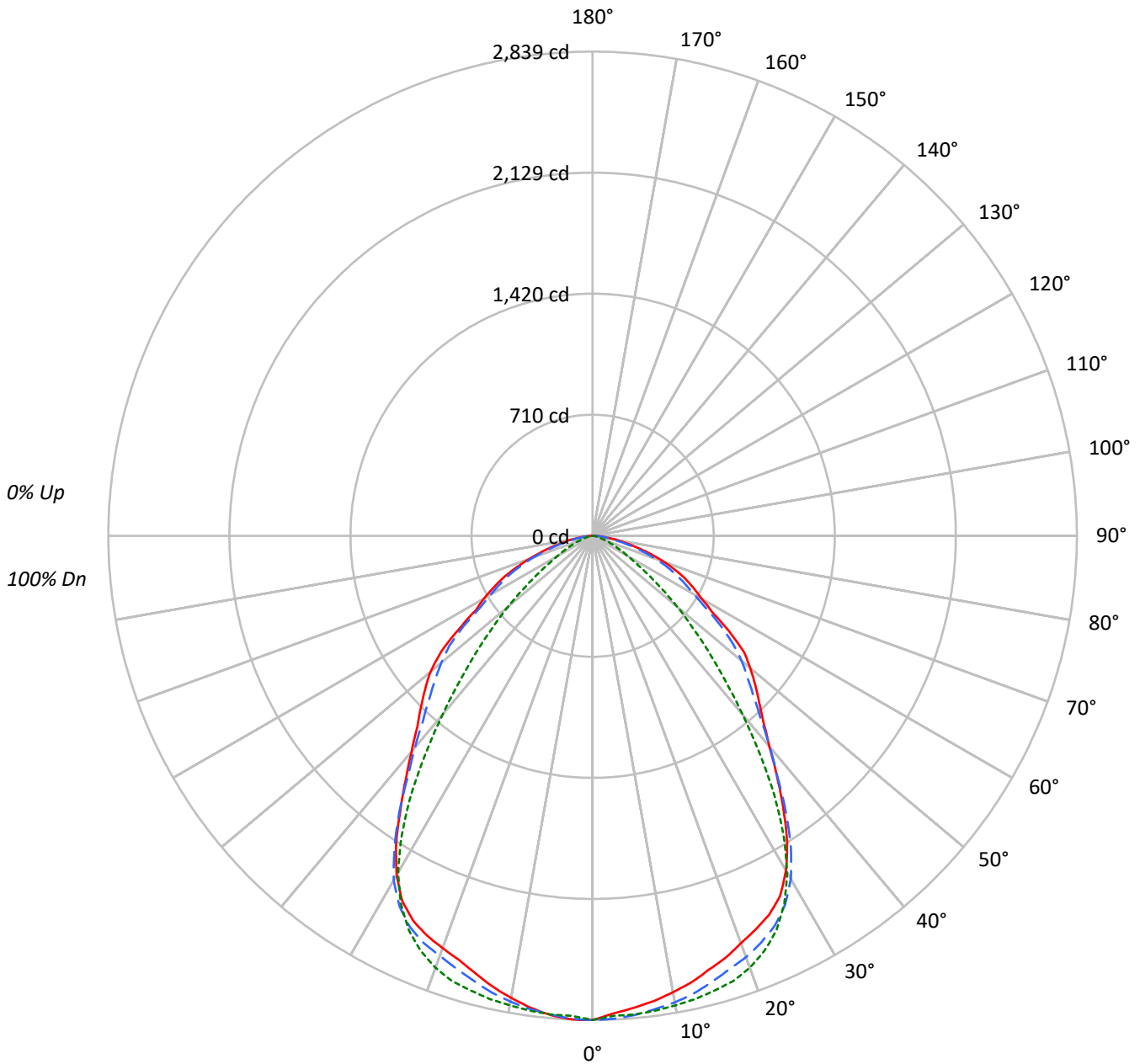
Lumens per Lamp: N/A
Luminaire Lumens: 5778.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P880602

CATALOG NUMBER: LD4C70D010 EU4709027 4LBDWNH

Luminous Intensity Polar Plot





TEST NUMBER: P880602

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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				
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88				88				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				76				
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66				66				
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58				58				
5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	51				51				
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46				46				
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41				41				
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37				37				
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34				34				
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31				31				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	348781	348781	348781
5°	342603	347437	347967
10°	338917	348735	343271
15°	334986	351075	337759
20°	332323	352352	336336
25°	332148	345771	337475
30°	321580	323438	325921
35°	292154	278416	294779
40°	258474	219231	264761
45°	239797	166948	247407
50°	230422	123582	237092
55°	208620	85161	205814
60°	181381	57938	180324
65°	175232	41918	166336
70°	158443	28269	141165
75°	130582	18607	111927
80°	105062	12381	83412
85°	86267	6061	55256



TEST NUMBER: P880602

CATALOG NUMBER: LD4C70D010 EU4709027 4LBDWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	4.6
10°-20°	766.3	13.3
20°-30°	1157.7	20.0
30°-40°	1211.6	21.0
40°-50°	981.2	17.0
50°-60°	713.7	12.4
60°-70°	440.2	7.6
70°-80°	198.9	3.4
80°-90°	40.4	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°	2192.0	37.9
0°-40°	3403.5	58.9
0°-60°	5098.5	88.2
0°-90°	5778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5778.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2839	2839	2839	2839	2839	
5°	2778	2822	2817	2817	2822	263
15°	2634	2708	2760	2699	2656	744
25°	2450	2524	2551	2533	2490	1123
35°	1948	1974	1856	1974	1966	1214
45°	1380	1337	961	1354	1424	1073
55°	974	913	398	922	961	869
65°	603	542	144	533	572	590
75°	275	236	39	205	236	299
85°	61	48	4	35	39	70
90°	0	0	0	0	0	



TEST NUMBER: P880602

CATALOG NUMBER: LD4C70D010 EU4709027 4LBDWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0
2.5°	2804.1	2804.1	2830.4	2860.8	2834.7	2808.4	2825.9	2817.3	2847.9	2847.9	2834.7
5°	2778.1	2786.7	2808.4	2834.7	2813.0	2786.7	2808.4	2799.8	2830.4	2830.4	2821.6
7.5°	2751.7	2756.0	2782.4	2813.0	2791.0	2764.9	2782.4	2778.1	2804.1	2808.4	2799.8
10°	2716.8	2721.1	2747.4	2778.1	2756.0	2734.3	2751.7	2747.4	2782.4	2782.4	2778.1
12.5°	2681.9	2686.2	2712.5	2738.6	2716.8	2695.1	2712.5	2712.5	2747.4	2751.7	2747.4
15°	2633.8	2642.4	2664.4	2690.5	2677.6	2651.3	2668.7	2668.7	2699.4	2707.9	2707.9
17.5°	2594.6	2598.9	2620.6	2647.0	2629.5	2607.5	2624.9	2624.9	2655.6	2664.4	2664.4
20°	2541.9	2550.8	2572.6	2598.9	2585.7	2568.3	2581.4	2581.4	2616.4	2624.9	2629.5
22.5°	2498.4	2507.0	2524.5	2559.7	2537.6	2524.5	2541.9	2537.6	2577.1	2581.4	2581.4
25°	2450.3	2459.2	2481.0	2502.7	2489.6	2476.7	2489.6	2489.6	2520.2	2524.5	2524.5
27.5°	2380.5	2384.8	2406.6	2428.6	2415.4	2398.0	2415.4	2411.1	2441.5	2446.0	2441.5
30°	2266.9	2275.7	2284.3	2315.0	2301.8	2288.6	2306.1	2297.5	2328.1	2328.1	2323.6
32.5°	2122.6	2122.6	2140.4	2162.1	2144.7	2135.8	2149.0	2153.3	2175.3	2175.3	2162.1
35°	1948.0	1956.9	1969.8	1982.9	1969.8	1961.2	1974.4	1969.8	1996.1	1987.2	1974.4
37.5°	1773.4	1777.7	1790.9	1808.3	1790.9	1777.7	1782.0	1777.7	1799.5	1799.5	1777.7
40°	1611.7	1620.6	1629.2	1646.6	1629.2	1620.6	1624.9	1611.7	1638.0	1629.2	1616.0
42.5°	1480.6	1484.9	1498.1	1507.0	1489.5	1484.9	1489.5	1480.6	1493.8	1484.9	1458.9
45°	1380.2	1380.2	1384.7	1397.6	1380.2	1375.9	1375.9	1367.0	1380.2	1362.7	1336.6
47.5°	1292.9	1297.2	1301.7	1310.3	1297.2	1284.3	1288.6	1271.1	1279.7	1266.5	1231.6
50°	1205.6	1214.2	1218.7	1227.3	1214.2	1205.6	1209.9	1192.4	1192.4	1170.6	1140.0
52.5°	1118.3	1122.6	1118.3	1126.9	1118.3	1105.1	1109.4	1091.9	1091.9	1065.9	1035.3
55°	974.0	978.3	982.9	991.5	982.9	969.7	978.3	965.4	965.4	947.7	912.8
57.5°	829.8	834.3	838.6	842.9	842.9	834.3	838.6	829.8	825.5	812.3	786.2
60°	738.2	738.2	738.2	742.5	738.2	733.9	733.9	725.0	725.0	707.5	681.5
62.5°	668.3	672.6	672.6	676.9	672.6	668.3	664.0	655.2	650.9	633.4	611.4
65°	602.8	602.8	598.5	607.1	602.8	598.5	598.5	589.6	581.0	563.6	541.5
67.5°	524.1	528.4	524.1	528.4	528.4	524.1	519.8	510.9	506.6	493.5	467.4
70°	441.1	441.1	441.1	445.6	441.1	441.1	445.6	432.5	428.2	410.5	388.7
72.5°	358.1	362.6	362.6	358.1	362.6	353.8	353.8	353.8	349.5	332.0	310.0
75°	275.1	279.6	279.6	283.9	279.6	275.1	275.1	270.8	266.5	253.3	235.8
77.5°	205.2	205.2	209.5	209.5	209.5	205.2	205.2	196.6	196.6	187.8	170.3
80°	148.5	148.5	144.2	148.5	148.5	144.2	144.2	139.7	139.7	131.1	117.9
82.5°	96.2	100.5	100.5	100.5	100.5	96.2	96.2	96.2	91.6	87.3	78.7
85°	61.2	61.2	61.2	61.2	65.5	61.2	65.5	61.2	61.2	52.4	48.1
87.5°	26.3	26.3	26.3	30.6	30.6	26.3	26.3	26.3	26.3	26.3	21.8
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: P880602

CATALOG NUMBER: LD4C70D010 EU4709027 4LBDWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0
2.5°	2834.7	2839.0	2825.9	2843.3	2830.4	2834.7	2839.0	2834.7	2817.3	2817.3	2865.4
5°	2817.3	2825.9	2813.0	2834.7	2825.9	2825.9	2834.7	2830.4	2813.0	2817.3	2860.8
7.5°	2799.8	2813.0	2804.1	2825.9	2813.0	2813.0	2821.6	2821.6	2804.1	2808.4	2847.9
10°	2773.5	2791.0	2786.7	2808.4	2795.5	2795.5	2808.4	2808.4	2791.0	2795.5	2834.7
12.5°	2751.7	2769.2	2764.9	2786.7	2778.1	2782.4	2786.7	2795.5	2773.5	2782.4	2817.3
15°	2716.8	2734.3	2734.3	2756.0	2747.4	2756.0	2764.9	2778.1	2760.3	2760.3	2795.5
17.5°	2677.6	2699.4	2699.4	2716.8	2716.8	2721.1	2738.6	2751.7	2734.3	2738.6	2769.2
20°	2633.8	2660.1	2660.1	2681.9	2677.6	2686.2	2699.4	2712.5	2695.1	2695.1	2730.0
22.5°	2590.0	2612.1	2616.4	2629.5	2629.5	2633.8	2647.0	2655.6	2633.8	2633.8	2668.7
25°	2529.0	2550.8	2555.1	2564.0	2555.1	2555.1	2564.0	2572.6	2550.8	2550.8	2581.4
27.5°	2446.0	2467.8	2467.8	2463.5	2454.6	2459.2	2454.6	2459.2	2437.2	2432.9	2463.5
30°	2323.6	2336.7	2336.7	2332.4	2319.3	2319.3	2306.1	2310.7	2280.0	2280.0	2306.1
32.5°	2157.8	2170.7	2162.1	2153.3	2135.8	2127.2	2118.3	2114.0	2083.4	2083.4	2114.0
35°	1961.2	1969.8	1956.9	1939.4	1917.4	1904.2	1891.3	1873.9	1851.9	1856.4	1873.9
37.5°	1760.3	1760.3	1742.8	1707.9	1690.4	1668.4	1646.6	1646.6	1611.7	1607.4	1620.6
40°	1590.0	1572.5	1541.9	1493.8	1463.2	1441.4	1410.8	1393.3	1367.0	1367.0	1389.0
42.5°	1437.1	1402.2	1362.7	1297.2	1266.5	1240.5	1201.3	1183.8	1153.2	1148.6	1161.8
45°	1301.7	1266.5	1209.9	1140.0	1100.8	1070.2	1013.2	991.5	965.4	960.9	969.7
47.5°	1192.4	1153.2	1083.3	991.5	952.3	912.8	856.1	825.5	803.7	790.5	803.7
50°	1096.2	1043.9	969.7	873.5	821.2	786.2	716.4	685.8	655.2	646.6	650.9
52.5°	991.5	939.1	860.4	759.9	711.8	659.5	593.9	550.4	524.1	510.9	524.1
55°	877.8	825.5	747.0	646.6	593.9	546.1	476.0	441.1	410.5	397.6	410.5
57.5°	755.6	707.5	637.7	537.2	489.2	445.6	380.1	345.2	314.6	305.7	314.6
60°	650.9	611.4	541.5	445.6	406.2	358.1	301.4	266.5	240.1	235.8	240.1
62.5°	581.0	537.2	471.7	380.1	340.6	301.4	249.0	214.1	192.1	187.8	192.1
65°	510.9	463.1	401.9	323.1	283.9	253.3	200.9	170.3	148.5	144.2	148.5
67.5°	432.5	388.7	336.3	266.5	235.8	205.2	161.7	131.1	113.6	109.3	113.6
70°	358.1	318.9	266.5	214.1	183.5	161.7	122.2	100.5	83.0	78.7	83.0
72.5°	283.9	249.0	205.2	161.7	144.2	122.2	96.2	74.1	61.2	56.7	61.2
75°	218.4	192.1	157.1	117.9	104.8	91.6	65.5	52.4	43.8	39.2	43.8
77.5°	152.8	135.4	109.3	87.3	74.1	65.5	48.1	34.9	30.6	26.3	30.6
80°	104.8	91.6	74.1	56.7	48.1	39.2	30.6	21.8	17.5	17.5	17.5
82.5°	69.8	56.7	43.8	34.9	30.6	26.3	17.5	13.2	13.2	8.9	8.9
85°	39.2	34.9	26.3	21.8	17.5	13.2	8.9	8.9	4.3	4.3	4.3
87.5°	17.5	13.2	8.9	8.9	4.3	4.3	4.3	4.3	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: P880602

CATALOG NUMBER: LD4C70D010 EU4709027 4LBDWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0
2.5°	2852.2	2839.0	2856.5	2839.0	2830.4	2839.0	2830.4	2856.5	2834.7	2817.3	2834.7
5°	2847.9	2830.4	2847.9	2834.7	2821.6	2825.9	2817.3	2843.3	2817.3	2804.1	2813.0
7.5°	2839.0	2825.9	2834.7	2821.6	2808.4	2813.0	2804.1	2825.9	2799.8	2786.7	2795.5
10°	2825.9	2813.0	2817.3	2808.4	2795.5	2795.5	2786.7	2804.1	2773.5	2756.0	2764.9
12.5°	2808.4	2791.0	2799.8	2786.7	2769.2	2769.2	2760.3	2773.5	2742.9	2725.4	2730.0
15°	2786.7	2769.2	2769.2	2756.0	2738.6	2738.6	2721.1	2734.3	2699.4	2681.9	2681.9
17.5°	2760.3	2738.6	2738.6	2725.4	2703.7	2699.4	2686.2	2699.4	2660.1	2642.4	2642.4
20°	2721.1	2703.7	2699.4	2690.5	2668.7	2664.4	2647.0	2651.3	2620.6	2607.5	2603.2
22.5°	2668.7	2651.3	2655.6	2642.4	2624.9	2620.6	2603.2	2616.4	2585.7	2572.6	2577.1
25°	2577.1	2568.3	2577.1	2572.6	2559.7	2559.7	2550.8	2559.7	2533.3	2524.5	2529.0
27.5°	2472.1	2467.8	2472.1	2472.1	2463.5	2463.5	2463.5	2476.7	2450.3	2446.0	2446.0
30°	2319.3	2319.3	2323.6	2328.1	2328.1	2336.7	2332.4	2349.9	2332.4	2323.6	2332.4
32.5°	2118.3	2135.8	2149.0	2149.0	2149.0	2157.8	2166.4	2179.6	2162.1	2166.4	2166.4
35°	1891.3	1904.2	1913.1	1934.9	1922.0	1952.3	1961.2	1978.6	1974.4	1982.9	1978.6
37.5°	1638.0	1655.5	1673.0	1703.6	1699.0	1733.9	1751.4	1786.3	1777.7	1795.2	1803.8
40°	1402.2	1428.2	1454.6	1476.3	1493.8	1528.7	1563.6	1607.4	1620.6	1633.5	1638.0
42.5°	1174.9	1201.3	1244.8	1275.4	1301.7	1358.4	1406.5	1458.9	1472.0	1498.1	1507.0
45°	991.5	1013.2	1065.9	1105.1	1126.9	1209.9	1266.5	1332.1	1354.1	1384.7	1397.6
47.5°	821.2	860.4	912.8	960.9	991.5	1078.8	1153.2	1223.0	1253.6	1288.6	1306.0
50°	672.6	716.4	786.2	829.8	873.5	969.7	1052.7	1126.9	1157.5	1196.7	1214.2
52.5°	550.4	598.5	664.0	711.8	759.9	860.4	947.7	1017.8	1057.0	1083.3	1109.4
55°	432.5	484.9	550.4	602.8	642.0	751.3	825.5	895.3	921.6	943.4	956.6
57.5°	336.3	375.5	441.1	484.9	532.9	628.8	703.2	755.6	777.4	803.7	812.3
60°	262.2	301.4	362.6	406.2	449.9	541.5	615.9	668.3	690.1	711.8	725.0
62.5°	209.5	249.0	305.7	345.2	384.4	467.4	532.9	585.3	611.4	633.4	646.6
65°	166.0	200.9	249.0	288.2	318.9	393.0	458.5	506.6	532.9	554.7	567.9
67.5°	131.1	161.7	205.2	231.5	262.2	323.1	380.1	423.6	445.6	471.7	484.9
70°	100.5	122.2	161.7	183.5	205.2	257.6	301.4	345.2	366.9	384.4	393.0
72.5°	74.1	91.6	122.2	139.7	152.8	196.6	231.5	262.2	279.6	297.1	305.7
75°	52.4	65.5	87.3	100.5	109.3	139.7	170.3	192.1	205.2	218.4	231.5
77.5°	34.9	43.8	56.7	65.5	74.1	96.2	113.6	131.1	144.2	157.1	161.7
80°	21.8	30.6	39.2	43.8	48.1	61.2	78.7	87.3	96.2	104.8	109.3
82.5°	13.2	17.5	21.8	26.3	30.6	39.2	48.1	56.7	61.2	69.8	74.1
85°	4.3	8.9	8.9	13.2	13.2	21.8	26.3	30.6	34.9	39.2	43.8
87.5°	0.0	0.0	4.3	4.3	4.3	4.3	8.9	8.9	8.9	8.9	8.9
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: P880602

CATALOG NUMBER: LD4C70D010 EU4709027 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0	2839.0
2.5°	2852.2	2839.0	2830.4	2825.9	2856.5	2817.3	2834.7	2839.0
5°	2834.7	2821.6	2813.0	2808.4	2834.7	2799.8	2813.0	2821.6
7.5°	2808.4	2799.8	2786.7	2782.4	2808.4	2769.2	2786.7	2791.0
10°	2778.1	2764.9	2756.0	2751.7	2773.5	2734.3	2751.7	2751.7
12.5°	2738.6	2730.0	2712.5	2712.5	2730.0	2695.1	2707.9	2707.9
15°	2686.2	2677.6	2660.1	2660.1	2677.6	2642.4	2655.6	2655.6
17.5°	2642.4	2633.8	2620.6	2616.4	2633.8	2598.9	2612.1	2607.5
20°	2607.5	2598.9	2581.4	2581.4	2594.6	2559.7	2572.6	2572.6
22.5°	2577.1	2572.6	2555.1	2555.1	2572.6	2537.6	2546.5	2537.6
25°	2529.0	2524.5	2507.0	2511.6	2520.2	2485.3	2498.4	2489.6
27.5°	2450.3	2450.3	2432.9	2428.6	2441.5	2411.1	2419.7	2415.4
30°	2328.1	2332.4	2310.7	2310.7	2315.0	2288.6	2301.8	2297.5
32.5°	2162.1	2166.4	2149.0	2144.7	2157.8	2135.8	2144.7	2144.7
35°	1978.6	1982.9	1969.8	1969.8	1982.9	1969.8	1969.8	1965.5
37.5°	1795.2	1803.8	1795.2	1799.5	1808.3	1795.2	1803.8	1799.5
40°	1646.6	1655.5	1642.3	1650.9	1659.8	1646.6	1659.8	1650.9
42.5°	1511.3	1524.4	1515.5	1524.4	1533.0	1524.4	1533.0	1520.1
45°	1410.8	1419.7	1415.1	1419.7	1428.2	1424.0	1428.2	1424.0
47.5°	1314.6	1332.1	1323.5	1332.1	1345.2	1336.6	1345.2	1332.1
50°	1227.3	1240.5	1236.2	1244.8	1249.1	1244.8	1253.6	1240.5
52.5°	1113.7	1126.9	1122.6	1122.6	1131.2	1122.6	1131.2	1122.6
55°	965.4	969.7	969.7	974.0	969.7	965.4	969.7	960.9
57.5°	821.2	829.8	816.9	829.8	825.5	821.2	821.2	812.3
60°	729.3	742.5	733.9	742.5	738.2	738.2	738.2	733.9
62.5°	655.2	664.0	655.2	659.5	659.5	659.5	655.2	650.9
65°	572.2	585.3	576.5	581.0	576.5	572.2	576.5	572.2
67.5°	489.2	493.5	493.5	489.2	489.2	489.2	489.2	480.6
70°	397.6	401.9	397.6	406.2	401.9	397.6	401.9	393.0
72.5°	310.0	314.6	310.0	314.6	310.0	310.0	310.0	310.0
75°	231.5	235.8	235.8	235.8	235.8	235.8	227.3	235.8
77.5°	166.0	166.0	166.0	170.3	166.0	166.0	166.0	166.0
80°	113.6	113.6	113.6	117.9	113.6	117.9	113.6	117.9
82.5°	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
85°	39.2	43.8	43.8	39.2	39.2	39.2	39.2	39.2
87.5°	8.9	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)