

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: P880538

Luminaire Tested: **LD4C100D010 EU41009030 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: P880538  
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: LD4C100D010 EU41009030 4LBDWNH  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

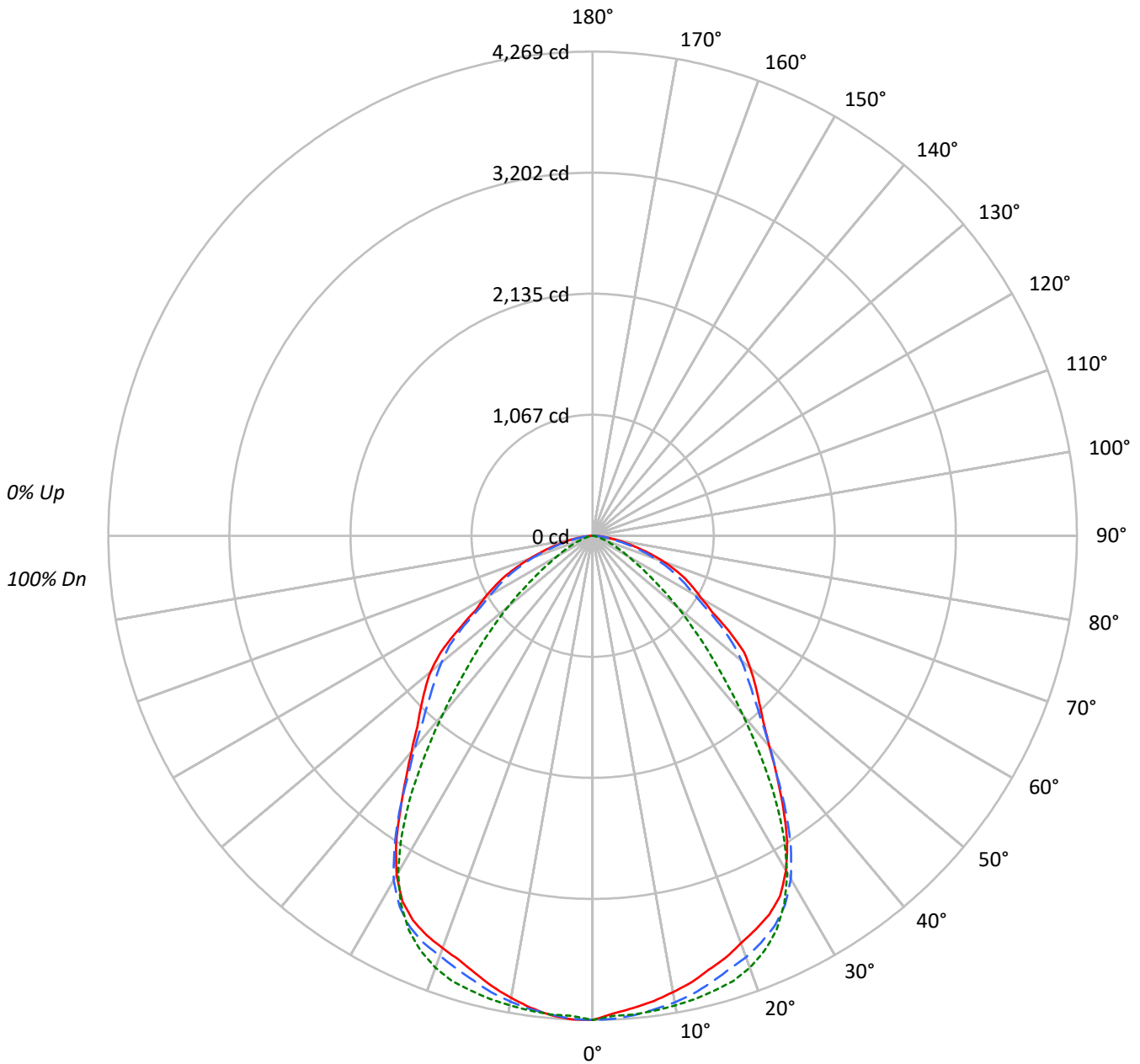
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8688.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 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): 114.4  
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: P880538

CATALOG NUMBER: LD4C100D010 EU41009030 4LBDWNH

### Luminous Intensity Polar Plot





TEST NUMBER: P880538

CATALOG NUMBER: LD4C100D010 EU41009030 4LBDWNH

**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°	524449	524449	524449
5°	515144	522420	523209
10°	509611	524369	516160
15°	503700	527891	507859
20°	499707	529802	505720
25°	499434	519917	507432
30°	483540	486335	490066
35°	439296	418644	443240
40°	388650	329648	398112
45°	360565	251021	371997
50°	346454	185813	356488
55°	313700	128042	309460
60°	272710	87128	271138
65°	263487	63052	250086
70°	238221	42493	212251
75°	196323	28005	168318
80°	158052	18607	125437
85°	129823	9162	83166



TEST NUMBER: P880538

CATALOG NUMBER: LD4C100D010 EU41009030 4LBDWNH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.0	4.6
10°-20°	1152.2	13.3
20°-30°	1740.7	20.0
30°-40°	1821.7	21.0
40°-50°	1475.4	17.0
50°-60°	1073.2	12.4
60°-70°	661.9	7.6
70°-80°	299.1	3.4
80°-90°	60.8	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°	3295.9	37.9
0°-40°	5117.7	58.9
0°-60°	7666.3	88.2
0°-90°	8688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8688.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4269	4269	4269	4269	4269	
5°	4177	4243	4236	4236	4243	396
15°	3960	4072	4150	4059	3993	1119
25°	3684	3796	3836	3809	3743	1688
35°	2929	2969	2791	2969	2955	1826
45°	2075	2010	1445	2036	2141	1613
55°	1465	1372	598	1386	1445	1307
65°	906	814	217	801	860	887
75°	414	355	59	309	355	449
85°	92	72	6	52	59	106
90°	0	0	0	0	0	



TEST NUMBER: P880538

CATALOG NUMBER: LD4C100D010 EU41009030 4LBDWNH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9
2.5°	4216.4	4216.4	4255.9	4301.6	4262.4	4222.8	4249.1	4236.2	4282.2	4282.2	4262.4
5°	4177.2	4190.1	4222.8	4262.4	4229.7	4190.1	4222.8	4209.9	4255.9	4255.9	4242.6
7.5°	4137.6	4144.1	4183.6	4229.7	4196.6	4157.4	4183.6	4177.2	4216.4	4222.8	4209.9
10°	4085.1	4091.6	4131.1	4177.2	4144.1	4111.3	4137.6	4131.1	4183.6	4183.6	4177.2
12.5°	4032.6	4039.1	4078.6	4117.8	4085.1	4052.4	4078.6	4078.6	4131.1	4137.6	4131.1
15°	3960.3	3973.2	4006.3	4045.5	4026.1	3986.5	4012.8	4012.8	4058.8	4071.8	4071.8
17.5°	3901.3	3907.8	3940.5	3980.1	3953.8	3920.7	3947.0	3947.0	3993.0	4006.3	4006.3
20°	3822.2	3835.5	3868.2	3907.8	3888.0	3861.7	3881.5	3881.5	3934.0	3947.0	3953.8
22.5°	3756.7	3769.6	3795.9	3848.8	3815.7	3795.9	3822.2	3815.7	3875.1	3881.5	3881.5
25°	3684.4	3697.8	3730.5	3763.2	3743.4	3724.0	3743.4	3743.4	3789.4	3795.9	3795.9
27.5°	3579.4	3585.9	3618.6	3651.7	3631.9	3605.7	3631.9	3625.5	3671.1	3678.0	3671.1
30°	3408.6	3421.9	3434.8	3480.9	3461.1	3441.3	3467.5	3454.6	3500.6	3500.6	3493.8
32.5°	3191.7	3191.7	3218.3	3251.0	3224.8	3211.4	3231.2	3237.7	3270.8	3270.8	3251.0
35°	2929.1	2942.4	2961.8	2981.6	2961.8	2948.9	2968.7	2961.8	3001.4	2988.1	2968.7
37.5°	2666.6	2673.0	2692.8	2719.1	2692.8	2673.0	2679.5	2673.0	2705.8	2705.8	2673.0
40°	2423.4	2436.8	2449.7	2475.9	2449.7	2436.8	2443.2	2423.4	2463.0	2449.7	2429.9
42.5°	2226.3	2232.8	2252.6	2265.9	2239.7	2232.8	2239.7	2226.3	2246.1	2232.8	2193.6
45°	2075.3	2075.3	2082.1	2101.5	2075.3	2068.8	2068.8	2055.5	2075.3	2049.0	2009.8
47.5°	1944.0	1950.5	1957.3	1970.2	1950.5	1931.1	1937.5	1911.3	1924.2	1904.4	1851.9
50°	1812.7	1825.7	1832.5	1845.4	1825.7	1812.7	1819.2	1792.9	1792.9	1760.2	1714.2
52.5°	1681.5	1687.9	1681.5	1694.4	1681.5	1661.7	1668.1	1641.9	1641.9	1602.7	1556.6
55°	1464.6	1471.0	1477.9	1490.8	1477.9	1458.1	1471.0	1451.6	1451.6	1425.0	1372.5
57.5°	1247.7	1254.5	1261.0	1267.5	1267.5	1254.5	1261.0	1247.7	1241.2	1221.4	1182.2
60°	1109.9	1109.9	1109.9	1116.4	1109.9	1103.5	1103.5	1090.1	1090.1	1063.9	1024.7
62.5°	1004.9	1011.4	1011.4	1017.8	1011.4	1004.9	998.5	985.1	978.7	952.4	919.3
65°	906.4	906.4	899.9	912.8	906.4	899.9	899.9	886.6	873.6	847.4	814.3
67.5°	788.0	794.5	788.0	794.5	794.5	788.0	781.6	768.2	761.8	742.0	702.8
70°	663.2	663.2	663.2	670.1	663.2	663.2	670.1	650.3	643.8	617.2	584.5
72.5°	538.4	545.3	545.3	538.4	545.3	531.9	531.9	531.9	525.5	499.2	466.1
75°	413.6	420.5	420.5	426.9	420.5	413.6	413.6	407.1	400.7	380.9	354.6
77.5°	308.6	308.6	315.0	315.0	315.0	308.6	308.6	295.7	295.7	282.3	256.1
80°	223.4	223.4	216.9	223.4	223.4	216.9	216.9	210.0	210.0	197.1	177.3
82.5°	144.6	151.1	151.1	151.1	151.1	144.6	144.6	144.6	137.7	131.3	118.3
85°	92.1	92.1	92.1	92.1	98.6	92.1	98.6	92.1	92.1	78.8	72.3
87.5°	39.6	39.6	39.6	46.0	46.0	39.6	39.6	39.6	39.6	39.6	32.7
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: P880538

CATALOG NUMBER: LD4C100D010 EU41009030 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9
2.5°	4262.4	4268.9	4249.1	4275.3	4255.9	4262.4	4268.9	4262.4	4236.2	4236.2	4308.5
5°	4236.2	4249.1	4229.7	4262.4	4249.1	4249.1	4262.4	4255.9	4229.7	4236.2	4301.6
7.5°	4209.9	4229.7	4216.4	4249.1	4229.7	4229.7	4242.6	4242.6	4216.4	4222.8	4282.2
10°	4170.3	4196.6	4190.1	4222.8	4203.4	4203.4	4222.8	4222.8	4196.6	4203.4	4262.4
12.5°	4137.6	4163.9	4157.4	4190.1	4177.2	4183.6	4190.1	4203.4	4170.3	4183.6	4236.2
15°	4085.1	4111.3	4111.3	4144.1	4131.1	4144.1	4157.4	4177.2	4150.5	4150.5	4203.4
17.5°	4026.1	4058.8	4058.8	4085.1	4085.1	4091.6	4117.8	4137.6	4111.3	4117.8	4163.9
20°	3960.3	3999.9	3999.9	4032.6	4026.1	4039.1	4058.8	4078.6	4052.4	4052.4	4104.9
22.5°	3894.5	3927.6	3934.0	3953.8	3953.8	3960.3	3980.1	3993.0	3960.3	3960.3	4012.8
25°	3802.8	3835.5	3841.9	3855.3	3841.9	3841.9	3855.3	3868.2	3835.5	3835.5	3881.5
27.5°	3678.0	3710.7	3710.7	3704.2	3690.9	3697.8	3690.9	3697.8	3664.6	3658.2	3704.2
30°	3493.8	3513.6	3513.6	3507.1	3487.3	3487.3	3467.5	3474.4	3428.3	3428.3	3467.5
32.5°	3244.6	3264.0	3251.0	3237.7	3211.4	3198.5	3185.2	3178.7	3132.7	3132.7	3178.7
35°	2948.9	2961.8	2942.4	2916.2	2883.1	2863.3	2843.9	2817.6	2784.5	2791.4	2817.6
37.5°	2646.8	2646.8	2620.5	2568.0	2541.8	2508.7	2475.9	2475.9	2423.4	2417.0	2436.8
40°	2390.7	2364.5	2318.4	2246.1	2200.1	2167.4	2121.3	2095.1	2055.5	2055.5	2088.6
42.5°	2160.9	2108.4	2049.0	1950.5	1904.4	1865.2	1806.3	1780.0	1734.0	1727.1	1746.9
45°	1957.3	1904.4	1819.2	1714.2	1655.2	1609.2	1523.5	1490.8	1451.6	1444.8	1458.1
47.5°	1792.9	1734.0	1628.9	1490.8	1431.8	1372.5	1287.2	1241.2	1208.5	1188.7	1208.5
50°	1648.3	1569.6	1458.1	1313.5	1234.7	1182.2	1077.2	1031.2	985.1	972.2	978.7
52.5°	1490.8	1412.1	1293.7	1142.6	1070.3	991.6	893.0	827.6	788.0	768.2	788.0
55°	1320.0	1241.2	1123.3	972.2	893.0	821.1	715.7	663.2	617.2	597.8	617.2
57.5°	1136.2	1063.9	958.9	807.8	735.5	670.1	571.5	519.0	473.0	459.6	473.0
60°	978.7	919.3	814.3	670.1	610.7	538.4	453.2	400.7	361.1	354.6	361.1
62.5°	873.6	807.8	709.3	571.5	512.2	453.2	374.4	321.9	288.8	282.3	288.8
65°	768.2	696.3	604.2	485.9	426.9	380.9	302.1	256.1	223.4	216.9	223.4
67.5°	650.3	584.5	505.7	400.7	354.6	308.6	243.2	197.1	170.9	164.4	170.9
70°	538.4	479.4	400.7	321.9	275.9	243.2	183.8	151.1	124.8	118.3	124.8
72.5°	426.9	374.4	308.6	243.2	216.9	183.8	144.6	111.5	92.1	85.2	92.1
75°	328.4	288.8	236.3	177.3	157.5	137.7	98.6	78.8	65.8	59.0	65.8
77.5°	229.8	203.6	164.4	131.3	111.5	98.6	72.3	52.5	46.0	39.6	46.0
80°	157.5	137.7	111.5	85.2	72.3	59.0	46.0	32.7	26.3	26.3	26.3
82.5°	105.0	85.2	65.8	52.5	46.0	39.6	26.3	19.8	19.8	13.3	13.3
85°	59.0	52.5	39.6	32.7	26.3	19.8	13.3	13.3	6.5	6.5	6.5
87.5°	26.3	19.8	13.3	13.3	6.5	6.5	6.5	6.5	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: P880538

CATALOG NUMBER: LD4C100D010 EU41009030 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9
2.5°	4288.7	4268.9	4295.1	4268.9	4255.9	4268.9	4255.9	4295.1	4262.4	4236.2	4262.4
5°	4282.2	4255.9	4282.2	4262.4	4242.6	4249.1	4236.2	4275.3	4236.2	4216.4	4229.7
7.5°	4268.9	4249.1	4262.4	4242.6	4222.8	4229.7	4216.4	4249.1	4209.9	4190.1	4203.4
10°	4249.1	4229.7	4236.2	4222.8	4203.4	4203.4	4190.1	4216.4	4170.3	4144.1	4157.4
12.5°	4222.8	4196.6	4209.9	4190.1	4163.9	4163.9	4150.5	4170.3	4124.3	4098.0	4104.9
15°	4190.1	4163.9	4163.9	4144.1	4117.8	4117.8	4091.6	4111.3	4058.8	4032.6	4032.6
17.5°	4150.5	4117.8	4117.8	4098.0	4065.3	4058.8	4039.1	4058.8	3999.9	3973.2	3973.2
20°	4091.6	4065.3	4058.8	4045.5	4012.8	4006.3	3980.1	3986.5	3940.5	3920.7	3914.2
22.5°	4012.8	3986.5	3993.0	3973.2	3947.0	3940.5	3914.2	3934.0	3888.0	3868.2	3875.1
25°	3875.1	3861.7	3875.1	3868.2	3848.8	3848.8	3835.5	3848.8	3809.2	3795.9	3802.8
27.5°	3717.1	3710.7	3717.1	3717.1	3704.2	3704.2	3704.2	3724.0	3684.4	3678.0	3678.0
30°	3487.3	3487.3	3493.8	3500.6	3500.6	3513.6	3507.1	3533.4	3507.1	3493.8	3507.1
32.5°	3185.2	3211.4	3231.2	3231.2	3231.2	3244.6	3257.5	3277.3	3251.0	3257.5	3257.5
35°	2843.9	2863.3	2876.6	2909.3	2889.9	2935.6	2948.9	2975.2	2968.7	2981.6	2975.2
37.5°	2463.0	2489.3	2515.5	2561.6	2554.7	2607.2	2633.5	2686.0	2673.0	2699.3	2712.2
40°	2108.4	2147.6	2187.1	2219.9	2246.1	2298.6	2351.1	2417.0	2436.8	2456.1	2463.0
42.5°	1766.7	1806.3	1871.7	1917.7	1957.3	2042.5	2114.8	2193.6	2213.4	2252.6	2265.9
45°	1490.8	1523.5	1602.7	1661.7	1694.4	1819.2	1904.4	2003.0	2036.1	2082.1	2101.5
47.5°	1234.7	1293.7	1372.5	1444.8	1490.8	1622.1	1734.0	1839.0	1885.0	1937.5	1963.8
50°	1011.4	1077.2	1182.2	1247.7	1313.5	1458.1	1582.9	1694.4	1740.4	1799.4	1825.7
52.5°	827.6	899.9	998.5	1070.3	1142.6	1293.7	1425.0	1530.4	1589.4	1628.9	1668.1
55°	650.3	729.0	827.6	906.4	965.3	1129.7	1241.2	1346.2	1385.8	1418.5	1438.3
57.5°	505.7	564.7	663.2	729.0	801.3	945.5	1057.4	1136.2	1168.9	1208.5	1221.4
60°	394.2	453.2	545.3	610.7	676.5	814.3	926.2	1004.9	1037.6	1070.3	1090.1
62.5°	315.0	374.4	459.6	519.0	578.0	702.8	801.3	880.1	919.3	952.4	972.2
65°	249.6	302.1	374.4	433.4	479.4	590.9	689.5	761.8	801.3	834.1	853.9
67.5°	197.1	243.2	308.6	348.2	394.2	485.9	571.5	637.0	670.1	709.3	729.0
70°	151.1	183.8	243.2	275.9	308.6	387.3	453.2	519.0	551.7	578.0	590.9
72.5°	111.5	137.7	183.8	210.0	229.8	295.7	348.2	394.2	420.5	446.7	459.6
75°	78.8	98.6	131.3	151.1	164.4	210.0	256.1	288.8	308.6	328.4	348.2
77.5°	52.5	65.8	85.2	98.6	111.5	144.6	170.9	197.1	216.9	236.3	243.2
80°	32.7	46.0	59.0	65.8	72.3	92.1	118.3	131.3	144.6	157.5	164.4
82.5°	19.8	26.3	32.7	39.6	46.0	59.0	72.3	85.2	92.1	105.0	111.5
85°	6.5	13.3	13.3	19.8	19.8	32.7	39.6	46.0	52.5	59.0	65.8
87.5°	0.0	0.0	6.5	6.5	6.5	6.5	13.3	13.3	13.3	13.3	13.3
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: P880538

CATALOG NUMBER: LD4C100D010 EU41009030 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9	4268.9
2.5°	4288.7	4268.9	4255.9	4249.1	4295.1	4236.2	4262.4	4268.9
5°	4262.4	4242.6	4229.7	4222.8	4262.4	4209.9	4229.7	4242.6
7.5°	4222.8	4209.9	4190.1	4183.6	4222.8	4163.9	4190.1	4196.6
10°	4177.2	4157.4	4144.1	4137.6	4170.3	4111.3	4137.6	4137.6
12.5°	4117.8	4104.9	4078.6	4078.6	4104.9	4052.4	4071.8	4071.8
15°	4039.1	4026.1	3999.9	3999.9	4026.1	3973.2	3993.0	3993.0
17.5°	3973.2	3960.3	3940.5	3934.0	3960.3	3907.8	3927.6	3920.7
20°	3920.7	3907.8	3881.5	3881.5	3901.3	3848.8	3868.2	3868.2
22.5°	3875.1	3868.2	3841.9	3841.9	3868.2	3815.7	3829.0	3815.7
25°	3802.8	3795.9	3769.6	3776.5	3789.4	3736.9	3756.7	3743.4
27.5°	3684.4	3684.4	3658.2	3651.7	3671.1	3625.5	3638.4	3631.9
30°	3500.6	3507.1	3474.4	3474.4	3480.9	3441.3	3461.1	3454.6
32.5°	3251.0	3257.5	3231.2	3224.8	3244.6	3211.4	3224.8	3224.8
35°	2975.2	2981.6	2961.8	2961.8	2981.6	2961.8	2961.8	2955.4
37.5°	2699.3	2712.2	2699.3	2705.8	2719.1	2699.3	2712.2	2705.8
40°	2475.9	2489.3	2469.5	2482.4	2495.7	2475.9	2495.7	2482.4
42.5°	2272.4	2292.2	2278.8	2292.2	2305.1	2292.2	2305.1	2285.7
45°	2121.3	2134.6	2127.8	2134.6	2147.6	2141.1	2147.6	2141.1
47.5°	1976.7	2003.0	1990.0	2003.0	2022.8	2009.8	2022.8	2003.0
50°	1845.4	1865.2	1858.8	1871.7	1878.2	1871.7	1885.0	1865.2
52.5°	1674.6	1694.4	1687.9	1687.9	1700.8	1687.9	1700.8	1687.9
55°	1451.6	1458.1	1458.1	1464.6	1458.1	1451.6	1458.1	1444.8
57.5°	1234.7	1247.7	1228.3	1247.7	1241.2	1234.7	1234.7	1221.4
60°	1096.6	1116.4	1103.5	1116.4	1109.9	1109.9	1109.9	1103.5
62.5°	985.1	998.5	985.1	991.6	991.6	991.6	985.1	978.7
65°	860.3	880.1	866.8	873.6	866.8	860.3	866.8	860.3
67.5°	735.5	742.0	742.0	735.5	735.5	735.5	735.5	722.6
70°	597.8	604.2	597.8	610.7	604.2	597.8	604.2	590.9
72.5°	466.1	473.0	466.1	473.0	466.1	466.1	466.1	466.1
75°	348.2	354.6	354.6	354.6	354.6	354.6	341.7	354.6
77.5°	249.6	249.6	249.6	256.1	249.6	249.6	249.6	249.6
80°	170.9	170.9	170.9	177.3	170.9	177.3	170.9	177.3
82.5°	111.5	111.5	111.5	111.5	111.5	111.5	111.5	111.5
85°	59.0	65.8	65.8	59.0	59.0	59.0	59.0	59.0
87.5°	13.3	6.5	6.5	6.5	6.5	6.5	6.5	6.5
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)