

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: P879350

Luminaire Tested: **LD4C100D010 EU41009030 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: P879350  
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: LD4C100D010 EU41009030 4LBDWWH  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBDWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

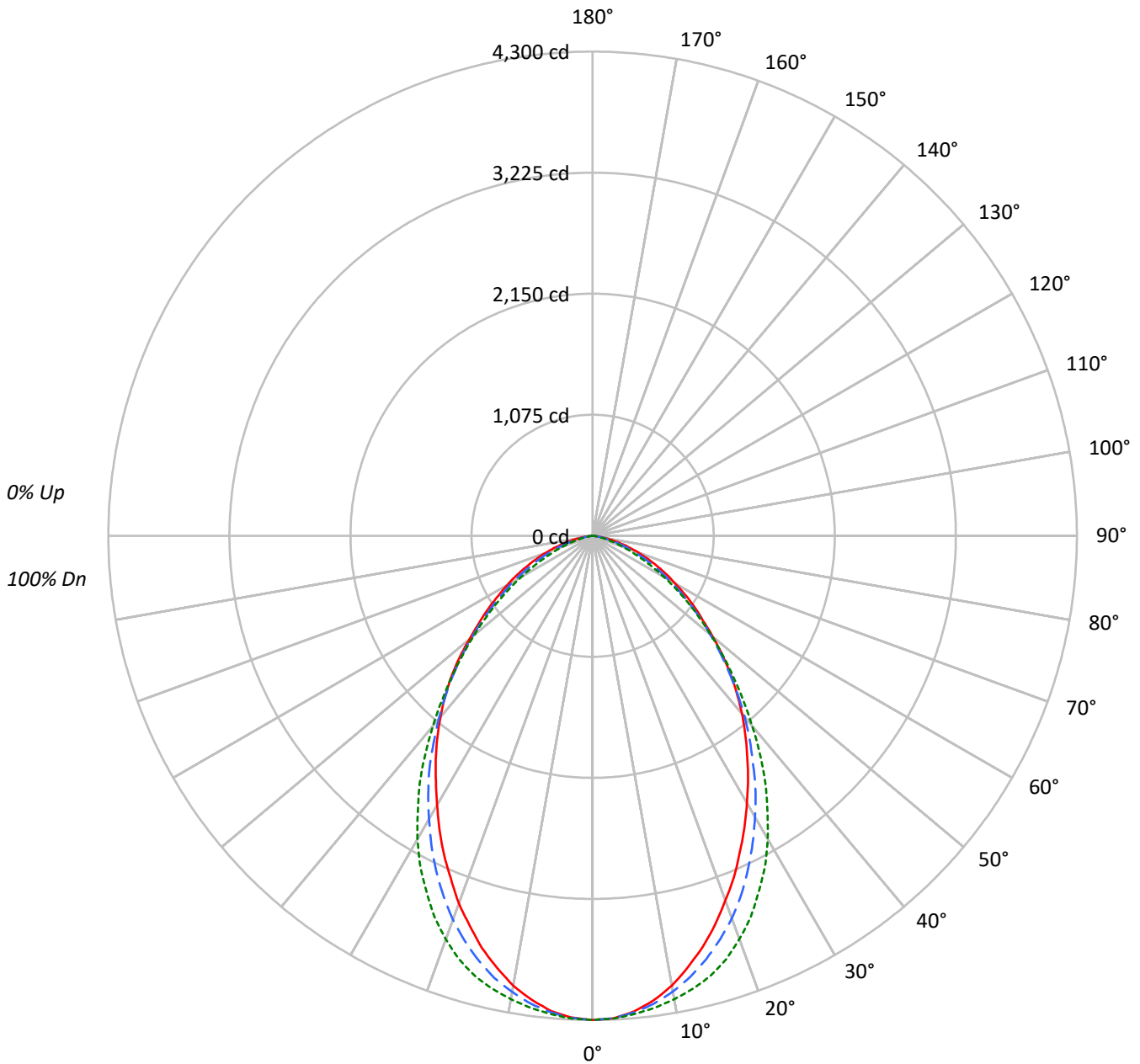
Lumens per Lamp: N/A  
Luminaire Lumens: 7692.0 lumens  
Efficiency: N/A  
Efficacy: 67.2 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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CATALOG NUMBER: LD4C100D010 EU41009030 4LBLDWWH

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

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

	0°	90°	180°
0°	528331	528331	528331
5°	522938	525861	522358
10°	505943	521312	506130
15°	480679	514625	482281
20°	450536	498438	454249
25°	419593	472907	423457
30°	388708	441139	391616
35°	358609	401007	364053
40°	330787	353320	336865
45°	299634	306219	308686
50°	265627	262301	272259
55°	236785	220893	242204
60°	207229	179268	214969
65°	181336	138662	187761
70°	152588	101546	160526
75°	119189	65979	125930
80°	78248	34667	86030
85°	26782	15646	35663



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.4	5.2
10°-20°	1096.9	14.3
20°-30°	1508.6	19.6
30°-40°	1573.8	20.5
40°-50°	1346.5	17.5
50°-60°	963.1	12.5
60°-70°	558.9	7.3
70°-80°	215.4	2.8
80°-90°	27.4	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°	3006.9	39.1
0°-40°	4580.7	59.6
0°-60°	6890.3	89.6
0°-90°	7692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7692.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4300	4300	4300	4300	4300	
5°	4240	4248	4264	4248	4236	399
15°	3779	3893	4046	3907	3792	1059
25°	3095	3266	3489	3286	3124	1424
35°	2391	2486	2674	2525	2427	1498
45°	1725	1710	1762	1753	1777	1329
55°	1106	1050	1031	1079	1131	989
65°	624	551	477	570	646	622
75°	251	188	139	199	265	270
85°	19	14	11	16	25	37
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°	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5
2.5°	4289.4	4286.2	4287.8	4287.8	4287.8	4286.2	4289.4	4289.4	4287.8	4287.8	4287.8
5°	4240.4	4237.3	4238.9	4240.4	4240.4	4240.4	4242.0	4243.6	4245.2	4246.8	4248.3
7.5°	4161.5	4156.7	4161.5	4167.8	4167.8	4169.4	4171.0	4172.5	4177.3	4185.2	4189.9
10°	4055.7	4055.7	4057.2	4062.0	4069.9	4068.3	4073.0	4080.9	4090.4	4101.5	4109.4
12.5°	3921.4	3924.6	3929.3	3934.1	3942.0	3946.7	3954.6	3964.1	3979.9	3995.7	4013.0
15°	3779.3	3780.9	3782.4	3793.5	3801.4	3812.5	3818.8	3837.7	3851.9	3874.0	3893.0
17.5°	3619.8	3618.2	3622.9	3632.4	3651.4	3656.1	3664.0	3684.5	3705.1	3735.1	3760.3
20°	3446.1	3455.5	3461.8	3474.5	3485.5	3498.2	3504.5	3529.8	3553.4	3581.9	3615.0
22.5°	3281.8	3273.9	3285.0	3299.2	3308.7	3318.1	3329.2	3356.0	3381.3	3416.0	3449.2
25°	3095.4	3100.2	3108.1	3119.1	3131.8	3144.4	3157.0	3185.5	3199.7	3236.0	3266.0
27.5°	2918.6	2926.5	2929.6	2943.8	2954.9	2964.4	2970.7	3003.8	3016.5	3048.1	3078.1
30°	2740.1	2748.0	2748.0	2763.8	2771.7	2781.2	2797.0	2819.1	2838.0	2860.1	2882.2
32.5°	2568.0	2568.0	2574.3	2588.5	2596.4	2607.4	2612.2	2628.0	2646.9	2669.0	2692.7
35°	2391.1	2395.8	2402.1	2402.1	2416.3	2422.7	2429.0	2444.8	2457.4	2466.9	2485.8
37.5°	2228.4	2228.4	2223.7	2231.6	2241.0	2239.5	2248.9	2256.8	2264.7	2275.8	2291.6
40°	2062.6	2062.6	2056.3	2061.0	2067.3	2065.7	2062.6	2070.5	2076.8	2084.7	2100.5
42.5°	1893.6	1890.4	1888.9	1888.9	1892.0	1888.9	1892.0	1893.6	1893.6	1893.6	1903.1
45°	1724.6	1732.5	1723.0	1719.9	1715.1	1710.4	1708.8	1710.4	1716.7	1708.8	1710.4
47.5°	1558.8	1561.9	1555.6	1550.9	1546.1	1543.0	1546.1	1536.7	1539.8	1541.4	1535.1
50°	1389.8	1383.5	1383.5	1378.7	1380.3	1378.7	1375.6	1372.4	1372.4	1364.5	1359.8
52.5°	1233.4	1236.6	1239.8	1228.7	1230.3	1222.4	1224.0	1216.1	1216.1	1206.6	1209.8
55°	1105.5	1100.8	1100.8	1096.0	1094.5	1086.6	1085.0	1080.2	1069.2	1062.9	1050.2
57.5°	972.9	971.3	965.0	966.5	957.1	955.5	952.3	944.4	936.5	928.6	914.4
60°	843.4	844.9	844.9	841.8	837.0	829.1	830.7	819.7	808.6	794.4	781.8
62.5°	736.0	731.2	729.6	726.5	717.0	717.0	709.1	701.2	690.2	675.9	664.9
65°	623.8	625.4	620.7	615.9	606.5	604.9	598.6	592.2	581.2	567.0	551.2
67.5°	522.8	519.6	518.0	513.3	503.8	502.2	497.5	483.3	473.8	459.6	446.9
70°	424.8	421.7	423.3	415.4	405.9	401.1	399.6	388.5	374.3	363.2	350.6
72.5°	333.2	333.2	331.7	323.8	319.0	315.9	309.5	296.9	289.0	276.4	266.9
75°	251.1	249.5	246.4	241.6	235.3	232.2	229.0	221.1	210.0	195.8	187.9
77.5°	173.7	175.3	172.1	170.6	162.7	157.9	156.4	151.6	142.1	132.7	124.8
80°	110.6	109.0	107.4	104.2	102.7	101.1	96.3	93.2	83.7	79.0	74.2
82.5°	60.0	56.9	56.9	55.3	52.1	50.5	49.0	45.8	44.2	41.1	37.9
85°	19.0	20.5	19.0	19.0	19.0	17.4	17.4	17.4	15.8	15.8	14.2
87.5°	1.6	3.2	1.6	1.6	3.2	1.6	1.6	3.2	1.6	1.6	3.2
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°	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5
2.5°	4287.8	4289.4	4289.4	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0	4291.0
5°	4253.1	4253.1	4256.2	4259.4	4259.4	4259.4	4261.0	4264.1	4264.1	4264.1	4262.6
7.5°	4196.2	4202.5	4208.9	4215.2	4216.8	4218.3	4221.5	4227.8	4227.8	4227.8	4227.8
10°	4122.0	4136.2	4144.1	4153.6	4158.3	4161.5	4171.0	4172.5	4177.3	4178.9	4177.3
12.5°	4027.2	4046.2	4063.6	4079.4	4085.7	4092.0	4101.5	4110.9	4115.7	4120.4	4118.8
15°	3921.4	3942.0	3968.8	3986.2	3998.8	4008.3	4022.5	4035.1	4043.0	4046.2	4046.2
17.5°	3793.5	3818.8	3847.2	3875.6	3883.5	3899.3	3915.1	3932.5	3942.0	3943.5	3942.0
20°	3651.4	3679.8	3703.5	3731.9	3749.3	3757.2	3779.3	3801.4	3810.9	3812.5	3810.9
22.5°	3482.4	3509.2	3540.8	3570.8	3585.0	3599.2	3622.9	3645.0	3657.7	3667.2	3657.7
25°	3294.4	3332.3	3362.4	3387.6	3408.2	3422.4	3452.4	3469.7	3490.3	3488.7	3490.3
27.5°	3109.7	3141.2	3174.4	3204.4	3217.1	3232.8	3256.5	3285.0	3302.3	3313.4	3311.8
30°	2920.1	2945.4	2973.8	3000.7	3021.2	3033.9	3068.6	3081.2	3103.3	3109.7	3104.9
32.5°	2719.6	2736.9	2765.4	2801.7	2809.6	2822.2	2844.3	2875.9	2883.8	2887.0	2888.6
35°	2506.4	2539.5	2563.2	2585.3	2591.6	2602.7	2628.0	2651.7	2659.6	2673.8	2667.5
37.5°	2309.0	2327.9	2339.0	2361.1	2380.0	2389.5	2402.1	2417.9	2433.7	2440.0	2438.5
40°	2111.5	2121.0	2130.5	2154.2	2155.8	2155.8	2174.7	2196.8	2196.8	2203.1	2203.1
42.5°	1909.4	1911.0	1923.6	1936.2	1939.4	1942.6	1961.5	1964.7	1974.1	1978.9	1985.2
45°	1713.6	1723.0	1730.9	1732.5	1740.4	1742.0	1746.7	1751.5	1765.7	1762.5	1765.7
47.5°	1535.1	1539.8	1544.6	1544.6	1549.3	1547.7	1555.6	1550.9	1560.4	1563.5	1568.3
50°	1359.8	1367.7	1362.9	1366.1	1364.5	1369.3	1366.1	1366.1	1366.1	1372.4	1377.2
52.5°	1198.7	1200.3	1195.5	1197.1	1197.1	1194.0	1197.1	1195.5	1194.0	1194.0	1195.5
55°	1050.2	1043.9	1040.8	1034.4	1026.6	1036.0	1031.3	1028.1	1034.4	1031.3	1034.4
57.5°	906.5	898.6	892.3	889.2	878.1	884.4	878.1	874.9	874.9	874.9	882.8
60°	770.7	762.8	754.9	745.4	743.9	740.7	737.5	729.6	731.2	729.6	732.8
62.5°	652.3	636.5	625.4	617.5	615.9	611.2	606.5	598.6	600.1	600.1	601.7
65°	543.3	525.9	510.1	499.1	499.1	491.2	483.3	483.3	473.8	477.0	478.5
67.5°	434.3	420.1	404.3	396.4	391.7	385.4	380.6	377.5	372.7	372.7	375.9
70°	336.4	322.2	314.3	301.6	300.1	295.3	289.0	284.3	282.7	282.7	281.1
72.5°	254.3	241.6	232.2	224.3	219.5	214.8	208.5	206.9	203.7	203.7	206.9
75°	176.9	169.0	161.1	153.2	150.0	148.5	143.7	140.6	140.6	139.0	140.6
77.5°	118.4	110.6	102.7	99.5	96.3	93.2	91.6	90.0	85.3	85.3	85.3
80°	67.9	64.8	61.6	56.9	56.9	55.3	52.1	50.5	49.0	49.0	49.0
82.5°	34.7	33.2	30.0	28.4	28.4	28.4	26.8	26.8	25.3	25.3	25.3
85°	14.2	12.6	11.1	11.1	11.1	11.1	11.1	11.1	12.6	11.1	12.6
87.5°	1.6	3.2	3.2	3.2	3.2	3.2	3.2	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	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°	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5
2.5°	4291.0	4289.4	4289.4	4289.4	4289.4	4289.4	4287.8	4287.8	4286.2	4286.2	4286.2
5°	4264.1	4262.6	4261.0	4259.4	4257.8	4256.2	4254.7	4253.1	4248.3	4246.8	4243.6
7.5°	4226.2	4223.1	4218.3	4216.8	4213.6	4208.9	4202.5	4199.4	4193.1	4185.2	4182.0
10°	4175.7	4169.4	4164.6	4156.7	4155.2	4148.8	4133.1	4125.2	4114.1	4104.6	4093.6
12.5°	4114.1	4107.8	4096.7	4085.7	4079.4	4065.1	4050.9	4038.3	4024.1	4003.6	3987.8
15°	4038.3	4028.8	4006.7	4003.6	3994.1	3972.0	3953.0	3929.3	3907.2	3885.1	3866.2
17.5°	3937.2	3916.7	3905.6	3891.4	3880.4	3851.9	3831.4	3804.6	3774.6	3749.3	3722.4
20°	3804.6	3782.4	3763.5	3755.6	3741.4	3716.1	3690.8	3657.7	3627.7	3596.1	3572.4
22.5°	3646.6	3632.4	3604.0	3594.5	3577.1	3551.9	3521.9	3490.3	3461.8	3427.1	3395.5
25°	3477.6	3457.1	3435.0	3416.0	3403.4	3379.7	3341.8	3318.1	3286.5	3248.6	3225.0
27.5°	3297.6	3273.9	3242.3	3229.7	3218.6	3187.0	3155.5	3125.5	3100.2	3067.0	3046.5
30°	3089.1	3071.8	3051.2	3035.4	3019.6	2994.4	2965.9	2931.2	2904.4	2888.6	2860.1
32.5°	2877.5	2863.3	2836.4	2828.5	2811.2	2790.6	2770.1	2744.8	2716.4	2692.7	2670.6
35°	2651.7	2637.4	2618.5	2604.3	2598.0	2583.8	2561.6	2539.5	2525.3	2498.5	2487.4
37.5°	2425.8	2421.1	2402.1	2387.9	2383.2	2365.8	2354.8	2339.0	2318.4	2312.1	2299.5
40°	2193.7	2190.5	2179.4	2177.9	2168.4	2163.7	2147.9	2135.2	2125.8	2121.0	2113.1
42.5°	1980.5	1977.3	1967.8	1969.4	1959.9	1956.8	1955.2	1944.1	1936.2	1926.8	1928.3
45°	1770.4	1767.2	1760.9	1757.8	1762.5	1760.9	1757.8	1753.0	1753.0	1754.6	1749.9
47.5°	1568.3	1571.4	1565.1	1568.3	1568.3	1563.5	1563.5	1569.8	1571.4	1574.6	1577.7
50°	1377.2	1386.6	1383.5	1388.2	1389.8	1391.4	1386.6	1394.5	1393.0	1407.2	1404.0
52.5°	1203.4	1205.0	1211.3	1212.9	1214.5	1216.1	1224.0	1230.3	1231.9	1238.2	1249.2
55°	1036.0	1037.6	1050.2	1050.2	1058.1	1059.7	1070.8	1073.9	1078.7	1096.0	1099.2
57.5°	878.1	887.6	893.9	897.0	901.8	909.7	916.0	930.2	938.1	949.2	960.2
60°	736.0	747.0	754.9	758.1	764.4	773.9	781.8	797.6	811.8	824.4	832.3
62.5°	604.9	614.4	620.7	631.7	631.7	639.6	658.6	668.0	683.8	694.9	709.1
65°	488.0	494.3	505.4	505.4	511.7	524.3	540.1	554.3	570.1	585.9	600.1
67.5°	382.2	386.9	393.2	399.6	402.7	418.5	431.2	451.7	465.9	477.0	494.3
70°	289.0	292.2	300.1	306.4	311.1	322.2	336.4	350.6	364.8	377.5	394.8
72.5°	206.9	213.2	221.1	225.8	229.0	236.9	251.1	265.3	278.0	290.6	300.1
75°	142.1	146.9	150.0	154.8	159.5	165.8	175.3	184.8	199.0	211.6	222.7
77.5°	88.4	93.2	97.9	99.5	101.1	107.4	113.7	123.2	132.7	142.1	150.0
80°	52.1	53.7	55.3	56.9	60.0	64.8	67.9	74.2	80.5	86.9	94.8
82.5°	26.8	28.4	30.0	30.0	30.0	31.6	36.3	39.5	41.1	44.2	49.0
85°	11.1	11.1	11.1	12.6	12.6	14.2	14.2	15.8	15.8	17.4	19.0
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	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	0.0	0.0	0.0





TEST NUMBER: P879350

CATALOG NUMBER: LD4C100D010 EU41009030 4LBLDWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5	4300.5
2.5°	4284.7	4284.7	4284.7	4283.1	4284.7	4284.7	4284.7	4283.1
5°	4243.6	4240.4	4240.4	4238.9	4237.3	4237.3	4238.9	4235.7
7.5°	4175.7	4171.0	4167.8	4167.8	4166.2	4164.6	4164.6	4156.7
10°	4087.3	4077.8	4077.8	4074.6	4062.0	4060.4	4057.2	4057.2
12.5°	3976.7	3965.6	3959.3	3951.4	3943.5	3937.2	3935.6	3929.3
15°	3845.6	3831.4	3820.4	3817.2	3804.6	3795.1	3795.1	3791.9
17.5°	3703.5	3681.4	3673.5	3665.6	3648.2	3646.6	3643.5	3629.3
20°	3542.4	3521.9	3510.8	3502.9	3491.9	3476.1	3472.9	3474.5
22.5°	3373.4	3345.0	3335.5	3327.6	3316.6	3302.3	3302.3	3291.3
25°	3198.1	3172.8	3163.4	3153.9	3136.5	3130.2	3122.3	3123.9
27.5°	3019.6	2996.0	2988.1	2970.7	2959.6	2951.7	2943.8	2943.8
30°	2833.3	2820.6	2808.0	2806.4	2784.3	2774.8	2767.0	2760.6
32.5°	2653.2	2637.4	2631.1	2624.8	2613.8	2601.1	2599.5	2588.5
35°	2476.4	2460.6	2452.7	2446.4	2433.7	2429.0	2424.2	2427.4
37.5°	2290.0	2286.8	2282.1	2274.2	2266.3	2264.7	2258.4	2266.3
40°	2106.8	2105.2	2098.9	2100.5	2100.5	2097.3	2100.5	2100.5
42.5°	1929.9	1929.9	1923.6	1926.8	1928.3	1931.5	1936.2	1939.4
45°	1757.8	1756.2	1757.8	1760.9	1757.8	1765.7	1772.0	1776.7
47.5°	1580.9	1582.5	1588.8	1590.4	1593.5	1604.6	1604.6	1604.6
50°	1411.9	1419.8	1416.6	1426.1	1424.5	1430.9	1424.5	1424.5
52.5°	1250.8	1258.7	1260.3	1261.9	1271.3	1272.9	1272.9	1271.3
55°	1107.1	1118.2	1113.4	1121.3	1126.0	1129.2	1133.9	1130.8
57.5°	974.4	979.2	983.9	985.5	991.8	995.0	998.1	995.0
60°	843.4	852.8	860.7	862.3	865.5	868.6	870.2	874.9
62.5°	720.2	736.0	739.1	740.7	748.6	753.3	756.5	759.6
65°	611.2	622.2	630.1	634.9	641.2	641.2	645.9	645.9
67.5°	505.4	516.4	521.2	524.3	533.8	535.4	543.3	543.3
70°	409.0	416.9	420.1	424.8	434.3	440.6	443.8	446.9
72.5°	315.9	325.3	330.1	336.4	342.7	347.4	349.0	353.8
75°	230.6	244.8	246.4	252.7	257.4	263.7	266.9	265.3
77.5°	161.1	165.8	172.1	175.3	180.0	184.8	189.5	189.5
80°	99.5	105.8	107.4	109.0	115.3	118.4	121.6	121.6
82.5°	52.1	55.3	58.4	60.0	63.2	63.2	64.8	66.3
85°	20.5	22.1	22.1	22.1	23.7	25.3	25.3	25.3
87.5°	3.2	4.7	3.2	3.2	4.7	4.7	4.7	4.7
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)