

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: P879353

Luminaire Tested: **LD4C100D010 EU41009035 4LBDWWLI**

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: P879353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/1/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C100D010 EU41009035 4LBDWWLI  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBDWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

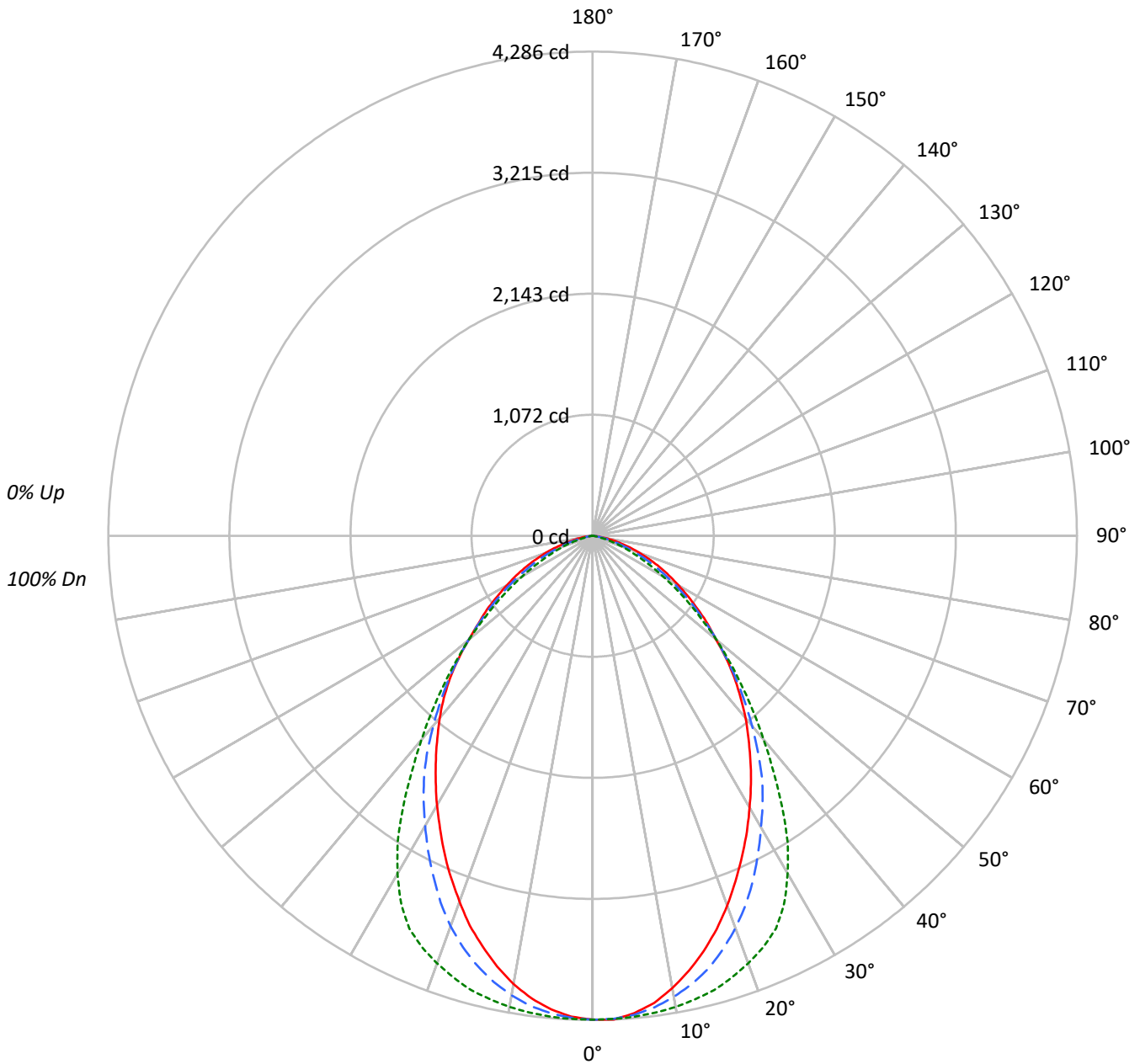
Lumens per Lamp: N/A  
Luminaire Lumens: 7866.0 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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 EU41009035 4LBLDWLWI

### 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	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
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	45	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°	526181	526181	526181
5°	523049	527007	519102
10°	507128	528298	502725
15°	483833	529468	478529
20°	455243	526442	450222
25°	424039	520215	420556
30°	393999	489882	390821
35°	365373	438156	362733
40°	337795	377857	337539
45°	307782	322533	310284
50°	271839	272756	273368
55°	243575	222992	244603
60°	215264	177106	215657
65°	189505	135028	187644
70°	157078	96661	157078
75°	122417	55489	117860
80°	79309	13584	75913
85°	29319	4511	22553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.0	5.1
10°-20°	1112.4	14.1
20°-30°	1554.9	19.8
30°-40°	1640.3	20.9
40°-50°	1395.4	17.7
50°-60°	984.6	12.5
60°-70°	558.1	7.1
70°-80°	199.1	2.5
80°-90°	19.1	0.2
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°	3069.4	39.0
0°-40°	4709.6	59.9
0°-60°	7089.6	90.1
0°-90°	7866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7866.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4283	4283	4283	4283	4283	
5°	4241	4256	4273	4243	4209	399
15°	3804	3964	4163	3942	3762	1067
25°	3128	3362	3838	3332	3102	1439
35°	2436	2612	2922	2598	2419	1523
45°	1772	1797	1856	1805	1786	1362
55°	1137	1099	1041	1102	1142	1021
65°	652	559	464	561	646	646
75°	258	176	117	173	248	279
85°	21	8	3	8	16	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°	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0
2.5°	4286.2	4278.2	4278.2	4278.2	4278.2	4278.2	4278.2	4278.2	4278.2	4279.8	4279.8
5°	4241.3	4238.1	4236.5	4236.5	4236.5	4236.5	4238.1	4244.5	4247.8	4252.6	4255.8
7.5°	4170.9	4164.5	4167.7	4167.7	4170.9	4174.1	4178.9	4185.3	4194.9	4201.3	4209.3
10°	4065.2	4058.7	4066.8	4070.0	4079.6	4084.4	4092.4	4102.0	4121.2	4130.8	4143.6
12.5°	3941.8	3938.6	3941.8	3954.6	3964.2	3970.7	3980.3	4001.1	4020.3	4041.1	4063.6
15°	3804.1	3796.1	3800.9	3816.9	3832.9	3844.1	3852.1	3879.4	3905.0	3937.0	3964.2
17.5°	3650.3	3639.1	3651.9	3664.7	3685.5	3695.2	3706.4	3736.8	3772.0	3807.3	3837.7
20°	3482.1	3478.9	3486.9	3504.6	3525.4	3538.2	3547.8	3581.4	3611.9	3659.9	3695.2
22.5°	3307.5	3310.7	3317.2	3336.4	3350.8	3368.4	3382.8	3413.3	3448.5	3493.3	3538.2
25°	3128.2	3133.0	3144.2	3157.0	3181.0	3190.6	3208.2	3240.3	3270.7	3312.3	3362.0
27.5°	2955.2	2956.8	2969.6	2976.0	2998.4	3019.2	3027.2	3060.9	3096.1	3128.2	3171.4
30°	2777.4	2782.2	2790.2	2807.8	2830.2	2838.2	2847.9	2878.3	2905.5	2945.6	2979.2
32.5°	2607.6	2604.4	2614.0	2623.6	2649.2	2663.7	2668.5	2703.7	2727.7	2767.8	2799.8
35°	2436.2	2428.2	2442.6	2452.2	2474.7	2487.5	2493.9	2521.1	2543.5	2577.2	2612.4
37.5°	2264.8	2271.2	2277.6	2285.6	2296.9	2300.1	2319.3	2325.7	2354.5	2380.2	2399.4
40°	2106.3	2103.1	2099.9	2107.9	2122.3	2128.7	2130.3	2147.9	2154.3	2179.9	2194.4
42.5°	1936.5	1938.1	1936.5	1938.1	1946.1	1946.1	1950.9	1962.1	1966.9	1974.9	1992.5
45°	1771.5	1771.5	1766.7	1768.3	1769.9	1768.3	1769.9	1774.7	1784.3	1784.3	1797.1
47.5°	1600.1	1596.9	1603.3	1598.5	1595.3	1593.7	1598.5	1593.7	1603.3	1603.3	1606.5
50°	1422.3	1422.3	1430.3	1428.7	1431.9	1425.5	1427.1	1427.1	1428.7	1427.1	1433.5
52.5°	1284.6	1281.4	1278.2	1270.2	1273.4	1267.0	1267.0	1268.6	1263.8	1262.2	1254.1
55°	1137.2	1140.4	1135.6	1132.4	1132.4	1126.0	1124.4	1114.8	1108.4	1103.6	1098.8
57.5°	1004.3	1007.5	1005.9	997.9	988.3	989.9	986.7	977.0	962.6	953.0	945.0
60°	876.1	879.3	876.1	868.1	864.9	858.5	856.9	844.1	832.9	820.1	810.5
62.5°	760.8	760.8	759.2	748.0	740.0	741.6	733.6	724.0	709.6	691.9	677.5
65°	651.9	650.3	642.3	637.5	631.1	623.1	618.3	603.8	592.6	578.2	559.0
67.5°	543.0	538.2	535.0	530.2	515.8	514.2	507.7	494.9	478.9	467.7	451.7
70°	437.3	435.7	429.3	429.3	418.0	413.2	403.6	392.4	378.0	362.0	349.2
72.5°	346.0	342.8	336.4	330.0	320.3	317.1	309.1	297.9	285.1	269.1	253.1
75°	257.9	254.7	253.1	245.1	237.1	229.0	225.8	214.6	201.8	190.6	176.2
77.5°	181.0	177.8	173.0	168.2	163.4	158.6	153.8	144.2	132.9	123.3	110.5
80°	112.1	108.9	105.7	104.1	99.3	97.7	91.3	86.5	76.9	70.5	62.5
82.5°	57.7	57.7	54.5	52.9	49.7	48.1	46.4	41.6	36.8	32.0	27.2
85°	20.8	20.8	19.2	17.6	17.6	16.0	16.0	14.4	11.2	11.2	8.0
87.5°	1.6	1.6	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0
2.5°	4281.4	4279.8	4281.4	4281.4	4283.0	4283.0	4283.0	4281.4	4283.0	4281.4	4281.4
5°	4255.8	4260.6	4263.8	4267.0	4268.6	4270.2	4270.2	4271.8	4273.4	4273.4	4271.8
7.5°	4215.7	4225.3	4234.9	4241.3	4244.5	4247.8	4252.6	4255.8	4259.0	4257.4	4255.8
10°	4162.9	4178.9	4191.7	4204.5	4210.9	4215.7	4223.7	4230.1	4233.3	4234.9	4230.1
12.5°	4087.6	4110.0	4130.8	4151.6	4161.3	4167.7	4183.7	4194.9	4201.3	4201.3	4196.5
15°	3993.1	4025.1	4055.5	4082.8	4098.8	4108.4	4132.4	4148.4	4158.1	4162.9	4154.9
17.5°	3879.4	3916.2	3953.0	3988.3	4004.3	4018.7	4052.3	4074.8	4095.6	4098.8	4089.2
20°	3733.6	3780.1	3821.7	3864.9	3882.6	3905.0	3943.4	3980.3	4012.3	4026.7	3999.5
22.5°	3570.2	3621.5	3659.9	3712.8	3736.8	3760.8	3810.5	3856.9	3913.0	3943.4	3895.4
25°	3400.4	3443.7	3490.1	3541.4	3575.0	3600.7	3658.3	3717.6	3792.9	3837.7	3770.4
27.5°	3217.8	3256.3	3312.3	3368.4	3394.0	3426.1	3494.9	3559.0	3631.1	3671.1	3621.5
30°	3028.8	3076.9	3129.8	3181.0	3217.8	3248.3	3304.3	3358.8	3419.7	3453.3	3416.5
32.5°	2841.4	2887.9	2932.7	2988.8	3009.6	3036.9	3086.5	3133.0	3179.4	3209.8	3166.6
35°	2644.4	2686.1	2727.7	2766.2	2775.8	2807.8	2847.9	2875.1	2897.5	2921.5	2892.7
37.5°	2429.8	2461.8	2482.7	2524.3	2540.3	2545.1	2577.2	2596.4	2620.4	2625.2	2623.6
40°	2212.0	2240.8	2258.4	2284.0	2296.9	2296.9	2319.3	2336.9	2354.5	2356.1	2354.5
42.5°	2008.6	2023.0	2037.4	2053.4	2050.2	2069.4	2079.0	2087.0	2099.9	2099.9	2103.1
45°	1803.5	1814.7	1827.6	1830.8	1843.6	1843.6	1851.6	1854.8	1861.2	1856.4	1850.0
47.5°	1612.9	1617.7	1619.3	1633.8	1637.0	1625.7	1635.4	1637.0	1635.4	1635.4	1632.1
50°	1431.9	1435.1	1433.5	1428.7	1430.3	1435.1	1430.3	1423.9	1427.1	1427.1	1430.3
52.5°	1255.7	1249.3	1246.1	1246.1	1239.7	1239.7	1231.7	1228.5	1226.9	1220.5	1228.5
55°	1094.0	1084.4	1069.9	1066.7	1061.9	1060.3	1050.7	1042.7	1039.5	1041.1	1039.5
57.5°	938.6	924.2	914.6	911.4	906.6	897.0	885.7	877.7	876.1	872.9	872.9
60°	797.7	781.6	767.2	752.8	754.4	748.0	736.8	732.0	727.2	720.8	725.6
62.5°	669.5	651.9	635.9	621.5	611.9	607.1	599.0	591.0	586.2	581.4	587.8
65°	543.0	528.6	510.9	496.5	491.7	486.9	478.9	466.1	464.5	464.5	467.7
67.5°	429.3	413.2	397.2	387.6	381.2	374.8	371.6	365.2	360.4	357.2	358.8
70°	330.0	313.9	301.1	291.5	286.7	285.1	273.9	272.3	270.7	269.1	267.5
72.5°	240.3	227.4	216.2	209.8	203.4	198.6	195.4	190.6	189.0	189.0	189.0
75°	165.0	155.4	142.6	134.5	131.3	126.5	121.7	118.5	115.3	116.9	116.9
77.5°	99.3	89.7	81.7	75.3	73.7	68.9	64.1	60.9	56.1	56.1	57.7
80°	54.5	46.4	40.0	35.2	32.0	30.4	25.6	24.0	20.8	19.2	19.2
82.5°	24.0	19.2	16.0	14.4	12.8	11.2	9.6	8.0	8.0	6.4	8.0
85°	8.0	6.4	4.8	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0
2.5°	4279.8	4279.8	4278.2	4278.2	4278.2	4275.0	4275.0	4273.4	4271.8	4270.2	4267.0
5°	4268.6	4267.0	4263.8	4262.2	4260.6	4255.8	4251.0	4247.8	4242.9	4236.5	4233.3
7.5°	4252.6	4247.8	4241.3	4238.1	4233.3	4222.1	4214.1	4206.1	4198.1	4186.9	4174.1
10°	4225.3	4215.7	4206.1	4199.7	4191.7	4177.3	4161.3	4148.4	4130.8	4114.8	4097.2
12.5°	4186.9	4175.7	4156.5	4146.8	4137.2	4116.4	4095.6	4068.4	4044.3	4021.9	4001.1
15°	4138.8	4118.0	4095.6	4082.8	4068.4	4034.7	4002.7	3973.9	3941.8	3914.6	3881.0
17.5°	4068.4	4037.9	4005.9	3991.5	3972.3	3933.8	3895.4	3855.3	3818.5	3784.9	3743.2
20°	3962.6	3929.0	3887.4	3864.9	3848.9	3797.7	3760.8	3716.0	3677.5	3635.9	3589.4
22.5°	3839.3	3792.9	3746.4	3714.4	3696.8	3645.5	3595.9	3555.8	3514.2	3466.1	3432.5
25°	3700.0	3642.3	3586.2	3554.2	3527.0	3472.5	3424.5	3382.8	3331.6	3289.9	3256.3
27.5°	3543.0	3477.3	3411.7	3379.6	3354.0	3294.7	3243.5	3200.2	3150.6	3113.7	3078.5
30°	3355.6	3296.3	3233.9	3208.2	3177.8	3116.9	3057.7	3019.2	2964.8	2926.3	2887.9
32.5°	3121.7	3083.3	3033.7	2998.4	2982.4	2926.3	2876.7	2830.2	2783.8	2753.4	2714.9
35°	2865.5	2831.8	2790.2	2771.0	2750.1	2714.9	2674.9	2634.8	2598.0	2569.2	2533.9
37.5°	2606.0	2572.4	2546.7	2525.9	2513.1	2481.1	2457.0	2426.6	2401.0	2373.7	2354.5
40°	2336.9	2327.3	2300.1	2290.5	2287.3	2252.0	2231.2	2207.2	2191.1	2175.1	2163.9
42.5°	2098.2	2082.2	2061.4	2063.0	2053.4	2034.2	2019.8	2003.7	1992.5	1984.5	1973.3
45°	1862.8	1850.0	1840.4	1848.4	1832.4	1826.0	1814.7	1813.1	1805.1	1790.7	1785.9
47.5°	1638.6	1637.0	1638.6	1633.8	1630.5	1627.3	1628.9	1620.9	1612.9	1608.1	1601.7
50°	1433.5	1435.1	1438.3	1443.1	1431.9	1436.7	1435.1	1433.5	1433.5	1428.7	1431.9
52.5°	1234.9	1236.5	1239.7	1244.5	1246.1	1246.1	1250.9	1254.1	1260.6	1268.6	1268.6
55°	1047.5	1058.7	1065.1	1073.2	1068.3	1078.0	1082.8	1097.2	1102.0	1102.0	1108.4
57.5°	880.9	892.2	897.0	906.6	909.8	917.8	930.6	938.6	949.8	959.4	969.0
60°	728.8	733.6	746.4	760.8	757.6	776.8	786.4	799.3	813.7	820.1	832.9
62.5°	592.6	599.0	608.7	613.5	624.7	634.3	656.7	669.5	682.3	698.3	711.2
65°	470.9	477.3	486.9	496.5	501.3	515.8	527.0	549.4	560.6	578.2	592.6
67.5°	360.4	370.0	378.0	384.4	387.6	402.0	419.6	429.3	450.1	467.7	478.9
70°	269.1	277.1	286.7	285.1	291.5	302.7	315.5	330.0	346.0	362.0	374.8
72.5°	187.4	195.4	201.8	203.4	209.8	217.8	227.4	238.7	251.5	267.5	285.1
75°	118.5	120.1	126.5	129.7	132.9	142.6	150.6	161.8	173.0	185.8	197.0
77.5°	59.3	64.1	67.3	70.5	72.1	80.1	88.1	97.7	107.3	120.1	131.3
80°	22.4	24.0	28.8	30.4	33.6	38.4	44.8	49.7	57.7	67.3	73.7
82.5°	8.0	9.6	11.2	11.2	12.8	16.0	17.6	22.4	27.2	30.4	33.6
85°	3.2	3.2	3.2	3.2	3.2	4.8	4.8	6.4	8.0	9.6	9.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P879353

CATALOG NUMBER: LD4C100D010 EU41009035 4LBLDWLWI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0	4283.0
2.5°	4265.4	4265.4	4263.8	4262.2	4262.2	4262.2	4260.6	4260.6
5°	4226.9	4222.1	4220.5	4217.3	4215.7	4214.1	4209.3	4209.3
7.5°	4164.5	4158.1	4153.3	4148.4	4142.0	4137.2	4137.2	4130.8
10°	4081.2	4068.4	4062.0	4055.5	4047.5	4037.9	4034.7	4029.9
12.5°	3980.3	3954.6	3948.2	3937.0	3924.2	3917.8	3906.6	3906.6
15°	3855.3	3828.1	3813.7	3807.3	3791.3	3780.1	3775.2	3762.4
17.5°	3709.6	3688.8	3666.3	3656.7	3639.1	3624.7	3618.3	3616.7
20°	3562.2	3528.6	3514.2	3499.8	3478.9	3466.1	3456.5	3443.7
22.5°	3392.4	3362.0	3341.2	3331.6	3314.0	3291.5	3275.5	3275.5
25°	3213.0	3185.8	3174.6	3153.8	3133.0	3124.9	3105.7	3102.5
27.5°	3041.7	3014.4	2992.0	2980.8	2956.8	2945.6	2929.5	2923.1
30°	2863.9	2831.8	2815.8	2814.2	2785.4	2774.2	2761.4	2755.0
32.5°	2686.1	2658.8	2642.8	2633.2	2620.4	2601.2	2590.0	2583.6
35°	2509.9	2492.3	2477.9	2466.6	2445.8	2436.2	2426.6	2418.6
37.5°	2325.7	2309.7	2303.3	2293.7	2284.0	2266.4	2263.2	2256.8
40°	2147.9	2127.1	2127.1	2120.7	2111.1	2109.5	2104.7	2104.7
42.5°	1962.1	1952.5	1950.9	1952.5	1946.1	1942.9	1938.1	1949.3
45°	1777.9	1782.7	1774.7	1776.3	1773.1	1779.5	1779.5	1785.9
47.5°	1608.1	1601.7	1604.9	1608.1	1612.9	1612.9	1611.3	1609.7
50°	1427.1	1433.5	1439.9	1431.9	1435.1	1436.7	1428.7	1430.3
52.5°	1271.8	1273.4	1278.2	1273.4	1278.2	1276.6	1279.8	1273.4
55°	1121.2	1121.2	1127.6	1129.2	1130.8	1135.6	1137.2	1142.0
57.5°	975.4	983.5	991.5	989.9	996.3	1002.7	997.9	1002.7
60°	848.9	855.3	863.3	866.5	871.3	874.5	874.5	877.7
62.5°	720.8	733.6	740.0	746.4	746.4	752.8	759.2	760.8
65°	605.4	619.9	624.7	629.5	632.7	639.1	647.1	645.5
67.5°	496.5	506.1	512.5	515.8	525.4	528.6	535.0	541.4
70°	389.2	402.0	406.8	413.2	421.3	427.7	434.1	437.3
72.5°	297.9	307.5	310.7	317.1	325.1	331.6	334.8	339.6
75°	208.2	224.2	225.8	230.6	237.1	245.1	249.9	248.3
77.5°	137.7	149.0	150.6	157.0	163.4	169.8	171.4	173.0
80°	81.7	88.1	89.7	92.9	97.7	100.9	104.1	107.3
82.5°	38.4	41.6	44.8	44.8	48.1	51.3	51.3	52.9
85°	12.8	12.8	14.4	14.4	16.0	16.0	17.6	16.0
87.5°	1.6	1.6	0.0	1.6	1.6	1.6	1.6	1.6
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)