

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: P879355

Luminaire Tested: **LD4C100D010 EU41009040 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: P879355
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 EU41009040 4LBDWWLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

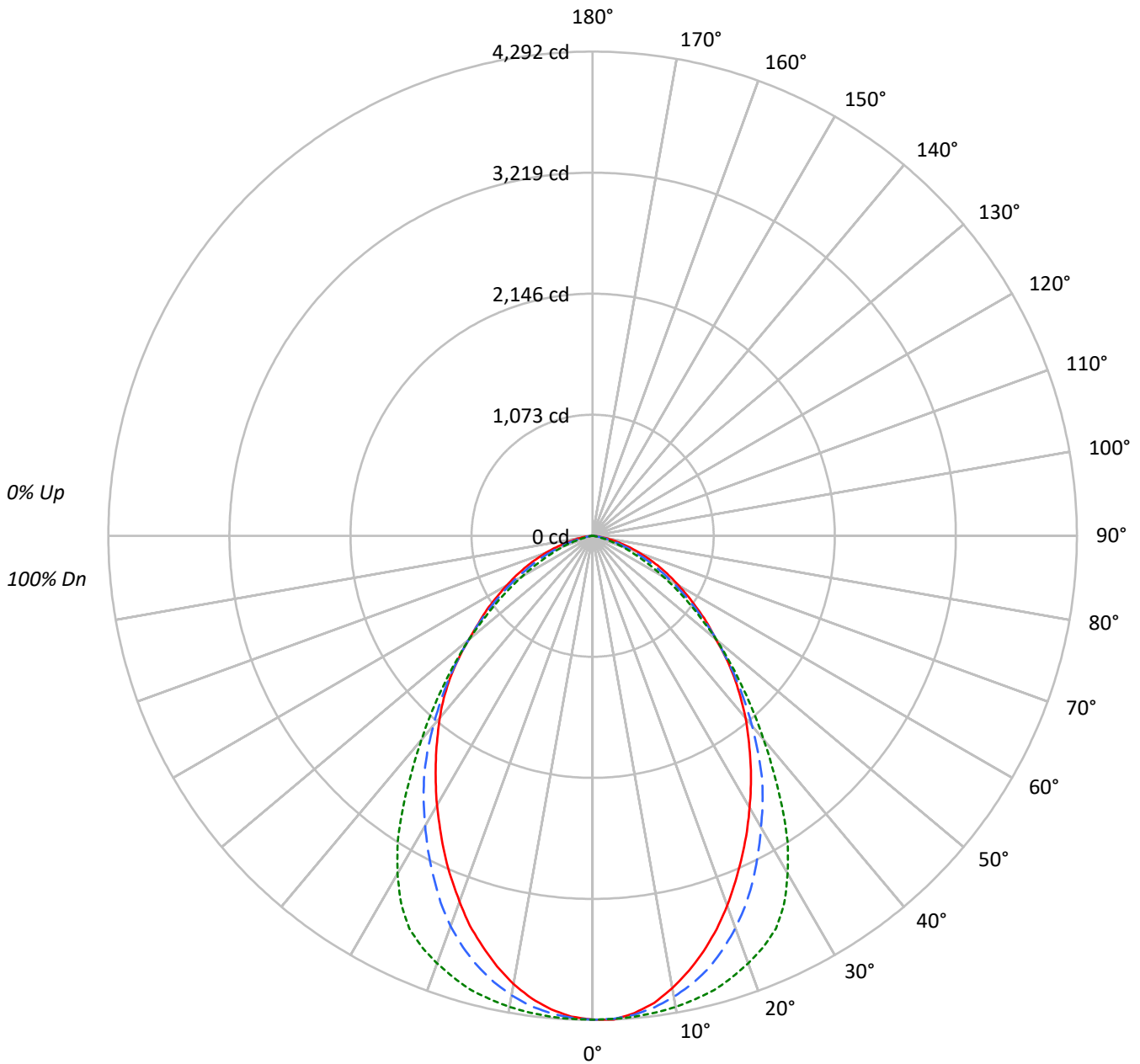
Lumens per Lamp: N/A
Luminaire Lumens: 7877.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	526919	526919	526919
5°	523789	527747	519830
10°	507827	529047	503436
15°	484507	530206	479204
20°	455883	527175	450850
25°	424622	520947	421152
30°	394552	490563	391361
35°	365882	438771	363243
40°	338260	378386	338004
45°	308217	322985	310718
50°	272221	273138	273750
55°	243918	223313	244946
60°	215583	177351	215976
65°	189766	135203	187906
70°	157293	96804	157293
75°	122560	55584	118003
80°	79451	13584	76055
85°	29460	4511	22553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.6	5.1
10°-20°	1113.9	14.1
20°-30°	1557.1	19.8
30°-40°	1642.5	20.9
40°-50°	1397.3	17.7
50°-60°	986.0	12.5
60°-70°	558.9	7.1
70°-80°	199.4	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°	3073.7	39.0
0°-40°	4716.2	59.9
0°-60°	7099.5	90.1
0°-90°	7877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7877.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4289	4289	4289	4289	4289	
5°	4247	4262	4279	4249	4215	400
15°	3809	3970	4169	3947	3768	1068
25°	3132	3367	3843	3336	3107	1441
35°	2440	2616	2926	2602	2422	1525
45°	1774	1800	1859	1808	1788	1364
55°	1139	1100	1043	1104	1144	1023
65°	653	560	465	561	646	646
75°	258	176	117	173	249	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°	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0
2.5°	4292.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4284.2	4285.8	4285.8
5°	4247.3	4244.1	4242.5	4242.5	4242.5	4242.5	4244.1	4250.5	4253.7	4258.5	4261.7
7.5°	4176.7	4170.3	4173.5	4173.5	4176.7	4179.9	4184.7	4191.1	4200.8	4207.2	4215.2
10°	4070.8	4064.4	4072.4	4075.7	4085.3	4090.1	4098.1	4107.7	4127.0	4136.6	4149.4
12.5°	3947.3	3944.1	3947.3	3960.2	3969.8	3976.2	3985.8	4006.7	4025.9	4046.8	4069.2
15°	3809.4	3801.4	3806.2	3822.2	3838.3	3849.5	3857.5	3884.8	3910.4	3942.5	3969.8
17.5°	3655.4	3644.2	3657.0	3669.9	3690.7	3700.3	3711.6	3742.0	3777.3	3812.6	3843.1
20°	3487.0	3483.8	3491.8	3509.5	3530.3	3543.1	3552.8	3586.4	3616.9	3665.0	3700.3
22.5°	3312.2	3315.4	3321.8	3341.0	3355.5	3373.1	3387.6	3418.0	3453.3	3498.2	3543.1
25°	3132.5	3137.3	3148.6	3161.4	3185.5	3195.1	3212.7	3244.8	3275.3	3317.0	3366.7
27.5°	2959.3	2960.9	2973.7	2980.2	3002.6	3023.5	3031.5	3065.2	3100.4	3132.5	3175.8
30°	2781.3	2786.1	2794.1	2811.7	2834.2	2842.2	2851.8	2882.3	2909.6	2949.7	2983.4
32.5°	2611.2	2608.0	2617.7	2627.3	2652.9	2667.4	2672.2	2707.5	2731.5	2771.6	2803.7
35°	2439.6	2431.6	2446.0	2455.7	2478.1	2490.9	2497.4	2524.6	2547.1	2580.8	2616.1
37.5°	2268.0	2274.4	2280.8	2288.8	2300.1	2303.3	2322.5	2328.9	2357.8	2383.5	2402.7
40°	2109.2	2106.0	2102.8	2110.8	2125.2	2131.7	2133.3	2150.9	2157.3	2183.0	2197.4
42.5°	1939.2	1940.8	1939.2	1940.8	1948.8	1948.8	1953.6	1964.8	1969.7	1977.7	1995.3
45°	1774.0	1774.0	1769.2	1770.8	1772.4	1770.8	1772.4	1777.2	1786.8	1786.8	1799.6
47.5°	1602.4	1599.1	1605.6	1600.7	1597.5	1595.9	1600.7	1595.9	1605.6	1605.6	1608.8
50°	1424.3	1424.3	1432.3	1430.7	1433.9	1427.5	1429.1	1429.1	1430.7	1429.1	1435.5
52.5°	1286.4	1283.2	1280.0	1271.9	1275.1	1268.7	1268.7	1270.3	1265.5	1263.9	1255.9
55°	1138.8	1142.0	1137.2	1134.0	1134.0	1127.6	1126.0	1116.4	1109.9	1105.1	1100.3
57.5°	1005.7	1008.9	1007.3	999.3	989.6	991.2	988.0	978.4	964.0	954.4	946.3
60°	877.4	880.6	877.4	869.3	866.1	859.7	858.1	845.3	834.1	821.2	811.6
62.5°	761.9	761.9	760.3	749.0	741.0	742.6	734.6	725.0	710.6	692.9	678.5
65°	652.8	651.2	643.2	638.4	632.0	623.9	619.1	604.7	593.5	579.0	559.8
67.5°	543.7	538.9	535.7	530.9	516.5	514.9	508.5	495.6	479.6	468.4	452.3
70°	437.9	436.3	429.9	429.9	418.6	413.8	404.2	393.0	378.5	362.5	349.7
72.5°	346.5	343.2	336.8	330.4	320.8	317.6	309.6	298.3	285.5	269.5	253.4
75°	258.2	255.0	253.4	245.4	237.4	229.4	226.2	214.9	202.1	190.9	176.4
77.5°	181.2	178.0	173.2	168.4	163.6	158.8	154.0	144.4	133.1	123.5	110.7
80°	112.3	109.1	105.9	104.3	99.4	97.8	91.4	86.6	77.0	70.6	62.6
82.5°	57.7	57.7	54.5	52.9	49.7	48.1	46.5	41.7	36.9	32.1	27.3
85°	20.9	20.9	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°	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0
2.5°	4287.4	4285.8	4287.4	4287.4	4289.0	4289.0	4289.0	4287.4	4289.0	4287.4	4287.4
5°	4261.7	4266.5	4269.7	4272.9	4274.5	4276.1	4276.1	4277.8	4279.4	4279.4	4277.8
7.5°	4221.6	4231.2	4240.9	4247.3	4250.5	4253.7	4258.5	4261.7	4264.9	4263.3	4261.7
10°	4168.7	4184.7	4197.6	4210.4	4216.8	4221.6	4229.6	4236.0	4239.3	4240.9	4236.0
12.5°	4093.3	4115.8	4136.6	4157.5	4167.1	4173.5	4189.5	4200.8	4207.2	4207.2	4202.4
15°	3998.7	4030.7	4061.2	4088.5	4104.5	4114.1	4138.2	4154.2	4163.9	4168.7	4160.7
17.5°	3884.8	3921.7	3958.6	3993.9	4009.9	4024.3	4058.0	4080.5	4101.3	4104.5	4094.9
20°	3738.8	3785.3	3827.0	3870.3	3888.0	3910.4	3948.9	3985.8	4017.9	4032.3	4005.1
22.5°	3575.2	3626.5	3665.0	3718.0	3742.0	3766.1	3815.8	3862.3	3918.5	3948.9	3900.8
25°	3405.2	3448.5	3495.0	3546.3	3580.0	3605.7	3663.4	3722.8	3798.2	3843.1	3775.7
27.5°	3222.3	3260.8	3317.0	3373.1	3398.8	3430.9	3499.8	3564.0	3636.2	3676.3	3626.5
30°	3033.1	3081.2	3134.1	3185.5	3222.3	3252.8	3309.0	3363.5	3424.4	3458.1	3421.2
32.5°	2845.4	2891.9	2936.8	2993.0	3013.8	3041.1	3090.8	3137.3	3183.9	3214.3	3171.0
35°	2648.1	2689.8	2731.5	2770.0	2779.7	2811.7	2851.8	2879.1	2901.6	2925.6	2896.7
37.5°	2433.2	2465.3	2486.1	2527.8	2543.9	2548.7	2580.8	2600.0	2624.1	2628.9	2627.3
40°	2215.1	2243.9	2261.6	2287.2	2300.1	2300.1	2322.5	2340.2	2357.8	2359.4	2357.8
42.5°	2011.4	2025.8	2040.2	2056.3	2053.1	2072.3	2081.9	2090.0	2102.8	2102.8	2106.0
45°	1806.1	1817.3	1830.1	1833.3	1846.2	1846.2	1854.2	1857.4	1863.8	1859.0	1852.6
47.5°	1615.2	1620.0	1621.6	1636.0	1639.2	1628.0	1637.6	1639.2	1637.6	1637.6	1634.4
50°	1433.9	1437.1	1435.5	1430.7	1432.3	1437.1	1432.3	1425.9	1429.1	1429.1	1432.3
52.5°	1257.5	1251.1	1247.9	1247.9	1241.5	1241.5	1233.4	1230.2	1228.6	1222.2	1230.2
55°	1095.5	1085.9	1071.4	1068.2	1063.4	1061.8	1052.2	1044.2	1041.0	1042.6	1041.0
57.5°	939.9	925.5	915.9	912.7	907.8	898.2	887.0	879.0	877.4	874.2	874.2
60°	798.8	782.7	768.3	753.9	755.5	749.0	737.8	733.0	728.2	721.8	726.6
62.5°	670.5	652.8	636.8	622.3	612.7	607.9	599.9	591.9	587.0	582.2	588.7
65°	543.7	529.3	511.7	497.2	492.4	487.6	479.6	466.8	465.1	465.1	468.4
67.5°	429.9	413.8	397.8	388.2	381.7	375.3	372.1	365.7	360.9	357.7	359.3
70°	330.4	314.4	301.5	291.9	287.1	285.5	274.3	272.7	271.1	269.5	267.9
72.5°	240.6	227.8	216.5	210.1	203.7	198.9	195.7	190.9	189.3	189.3	189.3
75°	165.2	155.6	142.8	134.7	131.5	126.7	121.9	118.7	115.5	117.1	117.1
77.5°	99.4	89.8	81.8	75.4	73.8	69.0	64.2	61.0	56.1	56.1	57.7
80°	54.5	46.5	40.1	35.3	32.1	30.5	25.7	24.1	20.9	19.2	19.2
82.5°	24.1	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°	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0
2.5°	4285.8	4285.8	4284.2	4284.2	4284.2	4281.0	4281.0	4279.4	4277.8	4276.1	4272.9
5°	4274.5	4272.9	4269.7	4268.1	4266.5	4261.7	4256.9	4253.7	4248.9	4242.5	4239.3
7.5°	4258.5	4253.7	4247.3	4244.1	4239.3	4228.0	4220.0	4212.0	4204.0	4192.7	4179.9
10°	4231.2	4221.6	4212.0	4205.6	4197.6	4183.1	4167.1	4154.2	4136.6	4120.6	4102.9
12.5°	4192.7	4181.5	4162.3	4152.6	4143.0	4122.2	4101.3	4074.0	4050.0	4027.5	4006.7
15°	4144.6	4123.8	4101.3	4088.5	4074.0	4040.4	4008.3	3979.4	3947.3	3920.1	3886.4
17.5°	4074.0	4043.6	4011.5	3997.1	3977.8	3939.3	3900.8	3860.7	3823.8	3790.1	3748.4
20°	3968.2	3934.5	3892.8	3870.3	3854.3	3803.0	3766.1	3721.2	3682.7	3641.0	3594.5
22.5°	3844.7	3798.2	3751.7	3719.6	3701.9	3650.6	3600.9	3560.8	3519.1	3471.0	3437.3
25°	3705.1	3647.4	3591.3	3559.2	3531.9	3477.4	3429.3	3387.6	3336.2	3294.5	3260.8
27.5°	3548.0	3482.2	3416.4	3384.3	3358.7	3299.3	3248.0	3204.7	3155.0	3118.1	3082.8
30°	3360.3	3300.9	3238.4	3212.7	3182.2	3121.3	3062.0	3023.5	2968.9	2930.4	2891.9
32.5°	3126.1	3087.6	3037.9	3002.6	2986.6	2930.4	2880.7	2834.2	2787.7	2757.2	2718.7
35°	2869.5	2835.8	2794.1	2774.8	2754.0	2718.7	2678.6	2638.5	2601.6	2572.7	2537.5
37.5°	2609.6	2576.0	2550.3	2529.4	2516.6	2484.5	2460.5	2430.0	2404.3	2377.1	2357.8
40°	2340.2	2330.5	2303.3	2293.7	2290.4	2255.2	2234.3	2210.3	2194.2	2178.2	2166.9
42.5°	2101.2	2085.1	2064.3	2065.9	2056.3	2037.0	2022.6	2006.5	1995.3	1987.3	1976.1
45°	1865.4	1852.6	1842.9	1851.0	1834.9	1828.5	1817.3	1815.7	1807.7	1793.2	1788.4
47.5°	1640.8	1639.2	1640.8	1636.0	1632.8	1629.6	1631.2	1623.2	1615.2	1610.4	1604.0
50°	1435.5	1437.1	1440.4	1445.2	1433.9	1438.7	1437.1	1435.5	1435.5	1430.7	1433.9
52.5°	1236.7	1238.3	1241.5	1246.3	1247.9	1247.9	1252.7	1255.9	1262.3	1270.3	1270.3
55°	1049.0	1060.2	1066.6	1074.7	1069.8	1079.5	1084.3	1098.7	1103.5	1103.5	1109.9
57.5°	882.2	893.4	898.2	907.8	911.0	919.1	931.9	939.9	951.1	960.8	970.4
60°	729.8	734.6	747.4	761.9	758.7	777.9	787.5	800.4	814.8	821.2	834.1
62.5°	593.5	599.9	609.5	614.3	625.5	635.2	657.6	670.5	683.3	699.3	712.2
65°	471.6	478.0	487.6	497.2	502.0	516.5	527.7	550.2	561.4	579.0	593.5
67.5°	360.9	370.5	378.5	384.9	388.2	402.6	420.2	429.9	450.7	468.4	479.6
70°	269.5	277.5	287.1	285.5	291.9	303.1	316.0	330.4	346.5	362.5	375.3
72.5°	187.7	195.7	202.1	203.7	210.1	218.1	227.8	239.0	251.8	267.9	285.5
75°	118.7	120.3	126.7	129.9	133.1	142.8	150.8	162.0	173.2	186.1	197.3
77.5°	59.3	64.2	67.4	70.6	72.2	80.2	88.2	97.8	107.5	120.3	131.5
80°	22.5	24.1	28.9	30.5	33.7	38.5	44.9	49.7	57.7	67.4	73.8
82.5°	8.0	9.6	11.2	11.2	12.8	16.0	17.6	22.5	27.3	30.5	33.7
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: P879355

CATALOG NUMBER: LD4C100D010 EU41009040 4LBLDWLWI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0	4289.0
2.5°	4271.3	4271.3	4269.7	4268.1	4268.1	4268.1	4266.5	4266.5
5°	4232.8	4228.0	4226.4	4223.2	4221.6	4220.0	4215.2	4215.2
7.5°	4170.3	4163.9	4159.1	4154.2	4147.8	4143.0	4143.0	4136.6
10°	4086.9	4074.0	4067.6	4061.2	4053.2	4043.6	4040.4	4035.6
12.5°	3985.8	3960.2	3953.8	3942.5	3929.7	3923.3	3912.0	3912.0
15°	3860.7	3833.5	3819.0	3812.6	3796.6	3785.3	3780.5	3767.7
17.5°	3714.8	3693.9	3671.5	3661.8	3644.2	3629.8	3623.3	3621.7
20°	3567.2	3533.5	3519.1	3504.6	3483.8	3471.0	3461.3	3448.5
22.5°	3397.2	3366.7	3345.9	3336.2	3318.6	3296.1	3280.1	3280.1
25°	3217.5	3190.3	3179.0	3158.2	3137.3	3129.3	3110.1	3106.9
27.5°	3045.9	3018.6	2996.2	2985.0	2960.9	2949.7	2933.6	2927.2
30°	2867.9	2835.8	2819.8	2818.2	2789.3	2778.1	2765.2	2758.8
32.5°	2689.8	2662.6	2646.5	2636.9	2624.1	2604.8	2593.6	2587.2
35°	2513.4	2495.8	2481.3	2470.1	2449.2	2439.6	2430.0	2422.0
37.5°	2328.9	2312.9	2306.5	2296.9	2287.2	2269.6	2266.4	2260.0
40°	2150.9	2130.1	2130.1	2123.6	2114.0	2112.4	2107.6	2107.6
42.5°	1964.8	1955.2	1953.6	1955.2	1948.8	1945.6	1940.8	1952.0
45°	1780.4	1785.2	1777.2	1778.8	1775.6	1782.0	1782.0	1788.4
47.5°	1610.4	1604.0	1607.2	1610.4	1615.2	1615.2	1613.6	1612.0
50°	1429.1	1435.5	1442.0	1433.9	1437.1	1438.7	1430.7	1432.3
52.5°	1273.5	1275.1	1280.0	1275.1	1280.0	1278.4	1281.6	1275.1
55°	1122.8	1122.8	1129.2	1130.8	1132.4	1137.2	1138.8	1143.6
57.5°	976.8	984.8	992.8	991.2	997.7	1004.1	999.3	1004.1
60°	850.1	856.5	864.5	867.7	872.6	875.8	875.8	879.0
62.5°	721.8	734.6	741.0	747.4	747.4	753.9	760.3	761.9
65°	606.3	620.7	625.5	630.4	633.6	640.0	648.0	646.4
67.5°	497.2	506.9	513.3	516.5	526.1	529.3	535.7	542.1
70°	389.8	402.6	407.4	413.8	421.8	428.3	434.7	437.9
72.5°	298.3	308.0	311.2	317.6	325.6	332.0	335.2	340.0
75°	208.5	224.6	226.2	231.0	237.4	245.4	250.2	248.6
77.5°	137.9	149.2	150.8	157.2	163.6	170.0	171.6	173.2
80°	81.8	88.2	89.8	93.0	97.8	101.0	104.3	107.5
82.5°	38.5	41.7	44.9	44.9	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)