

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: P879349

Luminaire Tested: **LD4C100D010 EU41009027 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: P879349
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 EU41009027 4LBDWWLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

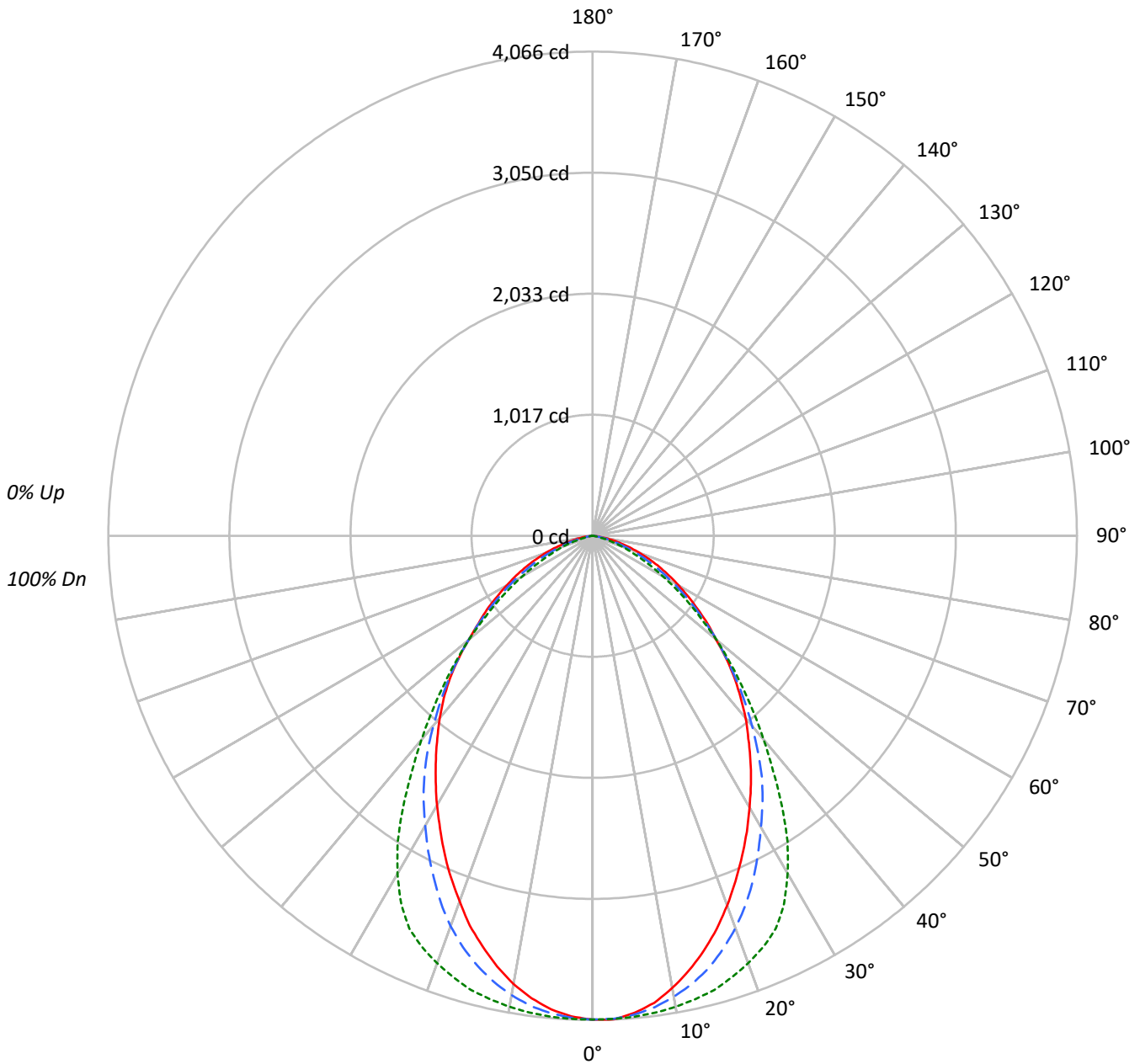
Lumens per Lamp: N/A
Luminaire Lumens: 7461.0 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				
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°	499092	499092	499092
5°	496127	499876	492378
10°	481018	501103	476839
15°	458917	502199	453893
20°	431801	499340	427042
25°	402202	493429	398908
30°	373713	464659	370692
35°	346565	415600	344061
40°	320395	358403	320154
45°	291937	305923	294317
50°	257848	258727	259301
55°	231045	211511	232009
60°	204182	167990	204551
65°	179737	128081	177993
70°	148996	91668	148996
75°	116104	52641	111785
80°	75206	12876	72022
85°	27910	4229	21426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.3	5.1
10°-20°	1055.1	14.1
20°-30°	1474.9	19.8
30°-40°	1555.8	20.9
40°-50°	1323.5	17.7
50°-60°	933.9	12.5
60°-70°	529.4	7.1
70°-80°	188.9	2.5
80°-90°	18.1	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°	2911.3	39.0
0°-40°	4467.1	59.9
0°-60°	6724.6	90.1
0°-90°	7461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7461.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4062	4062	4062	4062	4062	
5°	4023	4037	4053	4024	3993	379
15°	3608	3760	3948	3739	3569	1012
25°	2967	3189	3640	3160	2943	1365
35°	2311	2478	2771	2464	2294	1445
45°	1680	1705	1761	1712	1694	1292
55°	1079	1042	988	1045	1083	969
65°	618	530	441	532	612	612
75°	245	167	111	164	236	265
85°	20	8	3	8	15	35
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°	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5
2.5°	4065.5	4057.9	4057.9	4057.9	4057.9	4057.9	4057.9	4057.9	4057.9	4059.4	4059.4
5°	4023.0	4019.9	4018.4	4018.4	4018.4	4018.4	4019.9	4026.0	4029.0	4033.6	4036.6
7.5°	3956.1	3950.0	3953.1	3953.1	3956.1	3959.2	3963.7	3969.8	3978.9	3985.0	3992.6
10°	3855.9	3849.8	3857.4	3860.4	3869.5	3874.1	3881.7	3890.8	3909.0	3918.1	3930.3
12.5°	3738.9	3735.8	3738.9	3751.0	3760.1	3766.2	3775.3	3795.1	3813.3	3833.1	3854.3
15°	3608.2	3600.6	3605.2	3620.4	3635.6	3646.2	3653.8	3679.6	3703.9	3734.3	3760.1
17.5°	3462.4	3451.7	3463.9	3476.0	3495.8	3504.9	3515.5	3544.4	3577.8	3611.3	3640.1
20°	3302.8	3299.8	3307.4	3324.1	3343.9	3356.0	3365.1	3397.0	3425.9	3471.5	3504.9
22.5°	3137.2	3140.3	3146.4	3164.6	3178.3	3195.0	3208.7	3237.5	3270.9	3313.5	3356.0
25°	2967.1	2971.6	2982.3	2994.4	3017.2	3026.3	3043.1	3073.4	3102.3	3141.8	3188.9
27.5°	2803.0	2804.5	2816.7	2822.8	2844.0	2863.8	2871.4	2903.3	2936.7	2967.1	3008.1
30°	2634.4	2638.9	2646.5	2663.2	2684.5	2692.1	2701.2	2730.1	2755.9	2793.9	2825.8
32.5°	2473.3	2470.3	2479.4	2488.5	2512.8	2526.5	2531.1	2564.5	2587.3	2625.3	2655.6
35°	2310.8	2303.2	2316.9	2326.0	2347.2	2359.4	2365.5	2391.3	2412.6	2444.5	2477.9
37.5°	2148.2	2154.3	2160.4	2168.0	2178.6	2181.6	2199.9	2205.9	2233.3	2257.6	2275.8
40°	1997.8	1994.8	1991.7	1999.3	2013.0	2019.1	2020.6	2037.3	2043.4	2067.7	2081.4
42.5°	1836.8	1838.3	1836.8	1838.3	1845.9	1845.9	1850.4	1861.1	1865.6	1873.2	1889.9
45°	1680.3	1680.3	1675.7	1677.3	1678.8	1677.3	1678.8	1683.3	1692.4	1692.4	1704.6
47.5°	1517.7	1514.7	1520.8	1516.2	1513.2	1511.7	1516.2	1511.7	1520.8	1520.8	1523.8
50°	1349.1	1349.1	1356.7	1355.2	1358.2	1352.1	1353.7	1353.7	1355.2	1353.7	1359.7
52.5°	1218.4	1215.4	1212.4	1204.8	1207.8	1201.7	1201.7	1203.2	1198.7	1197.2	1189.6
55°	1078.7	1081.7	1077.1	1074.1	1074.1	1068.0	1066.5	1057.4	1051.3	1046.8	1042.2
57.5°	952.6	955.6	954.1	946.5	937.4	938.9	935.9	926.7	913.1	904.0	896.4
60°	831.0	834.1	831.0	823.4	820.4	814.3	812.8	800.6	790.0	777.9	768.7
62.5°	721.6	721.6	720.1	709.5	701.9	703.4	695.8	686.7	673.0	656.3	642.6
65°	618.3	616.8	609.2	604.7	598.6	591.0	586.4	572.8	562.1	548.4	530.2
67.5°	515.0	510.5	507.4	502.9	489.2	487.7	481.6	469.4	454.3	443.6	428.4
70°	414.8	413.2	407.2	407.2	396.5	392.0	382.9	372.2	358.5	343.4	331.2
72.5°	328.2	325.1	319.0	313.0	303.8	300.8	293.2	282.6	270.4	255.2	240.0
75°	244.6	241.6	240.0	232.4	224.8	217.3	214.2	203.6	191.4	180.8	167.1
77.5°	171.7	168.6	164.1	159.5	155.0	150.4	145.8	136.7	126.1	117.0	104.8
80°	106.3	103.3	100.3	98.8	94.2	92.7	86.6	82.0	72.9	66.8	59.3
82.5°	54.7	54.7	51.7	50.1	47.1	45.6	44.1	39.5	34.9	30.4	25.8
85°	19.8	19.8	18.2	16.7	16.7	15.2	15.2	13.7	10.6	10.6	7.6
87.5°	1.5	1.5	3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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°	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5
2.5°	4061.0	4059.4	4061.0	4061.0	4062.5	4062.5	4062.5	4061.0	4062.5	4061.0	4061.0
5°	4036.6	4041.2	4044.2	4047.3	4048.8	4050.3	4050.3	4051.8	4053.4	4053.4	4051.8
7.5°	3998.7	4007.8	4016.9	4023.0	4026.0	4029.0	4033.6	4036.6	4039.7	4038.2	4036.6
10°	3948.5	3963.7	3975.9	3988.0	3994.1	3998.7	4006.3	4012.3	4015.4	4016.9	4012.3
12.5°	3877.1	3898.4	3918.1	3937.9	3947.0	3953.1	3968.3	3978.9	3985.0	3985.0	3980.4
15°	3787.5	3817.9	3846.7	3872.6	3887.8	3896.9	3919.7	3934.9	3944.0	3948.5	3940.9
17.5°	3679.6	3714.6	3749.5	3782.9	3798.1	3811.8	3843.7	3865.0	3884.7	3887.8	3878.6
20°	3541.4	3585.4	3624.9	3665.9	3682.7	3703.9	3740.4	3775.3	3805.7	3819.4	3793.6
22.5°	3386.4	3435.0	3471.5	3521.6	3544.4	3567.2	3614.3	3658.3	3711.5	3740.4	3694.8
25°	3225.4	3266.4	3310.4	3359.1	3391.0	3415.3	3470.0	3526.2	3597.6	3640.1	3576.3
27.5°	3052.2	3088.6	3141.8	3195.0	3219.3	3249.7	3315.0	3375.8	3444.1	3482.1	3435.0
30°	2872.9	2918.5	2968.6	3017.2	3052.2	3081.0	3134.2	3185.9	3243.6	3275.5	3240.6
32.5°	2695.1	2739.2	2781.7	2834.9	2854.7	2880.5	2927.6	2971.6	3015.7	3044.6	3003.6
35°	2508.3	2547.8	2587.3	2623.7	2632.9	2663.2	2701.2	2727.1	2748.3	2771.1	2743.8
37.5°	2304.7	2335.1	2354.8	2394.3	2409.5	2414.1	2444.5	2462.7	2485.5	2490.0	2488.5
40°	2098.1	2125.4	2142.1	2166.4	2178.6	2178.6	2199.9	2216.6	2233.3	2234.8	2233.3
42.5°	1905.1	1918.8	1932.5	1947.7	1944.6	1962.9	1972.0	1979.6	1991.7	1991.7	1994.8
45°	1710.7	1721.3	1733.5	1736.5	1748.7	1748.7	1756.3	1759.3	1765.4	1760.8	1754.7
47.5°	1529.9	1534.4	1536.0	1549.6	1552.7	1542.0	1551.2	1552.7	1551.2	1551.2	1548.1
50°	1358.2	1361.2	1359.7	1355.2	1356.7	1361.2	1356.7	1350.6	1353.7	1353.7	1356.7
52.5°	1191.1	1185.0	1182.0	1182.0	1175.9	1175.9	1168.3	1165.3	1163.7	1157.7	1165.3
55°	1037.6	1028.5	1014.9	1011.8	1007.3	1005.7	996.6	989.0	986.0	987.5	986.0
57.5°	890.3	876.6	867.5	864.5	859.9	850.8	840.1	832.5	831.0	828.0	828.0
60°	756.6	741.4	727.7	714.0	715.6	709.5	698.9	694.3	689.7	683.7	688.2
62.5°	635.0	618.3	603.1	589.5	580.4	575.8	568.2	560.6	556.0	551.5	557.6
65°	515.0	501.4	484.6	471.0	466.4	461.9	454.3	442.1	440.6	440.6	443.6
67.5°	407.2	392.0	376.8	367.7	361.6	355.5	352.5	346.4	341.8	338.8	340.3
70°	313.0	297.8	285.6	276.5	271.9	270.4	259.8	258.3	256.8	255.2	253.7
72.5°	227.9	215.7	205.1	199.0	192.9	188.4	185.3	180.8	179.3	179.3	179.3
75°	156.5	147.4	135.2	127.6	124.6	120.0	115.5	112.4	109.4	110.9	110.9
77.5°	94.2	85.1	77.5	71.4	69.9	65.3	60.8	57.7	53.2	53.2	54.7
80°	51.7	44.1	38.0	33.4	30.4	28.9	24.3	22.8	19.8	18.2	18.2
82.5°	22.8	18.2	15.2	13.7	12.2	10.6	9.1	7.6	7.6	6.1	7.6
85°	7.6	6.1	4.6	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	1.5	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°	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5
2.5°	4059.4	4059.4	4057.9	4057.9	4057.9	4054.9	4054.9	4053.4	4051.8	4050.3	4047.3
5°	4048.8	4047.3	4044.2	4042.7	4041.2	4036.6	4032.1	4029.0	4024.5	4018.4	4015.4
7.5°	4033.6	4029.0	4023.0	4019.9	4015.4	4004.7	3997.1	3989.5	3981.9	3971.3	3959.2
10°	4007.8	3998.7	3989.5	3983.5	3975.9	3962.2	3947.0	3934.9	3918.1	3902.9	3886.2
12.5°	3971.3	3960.7	3942.4	3933.3	3924.2	3904.5	3884.7	3858.9	3836.1	3814.8	3795.1
15°	3925.7	3906.0	3884.7	3872.6	3858.9	3827.0	3796.6	3769.3	3738.9	3713.0	3681.1
17.5°	3858.9	3830.0	3799.6	3786.0	3767.7	3731.3	3694.8	3656.8	3621.9	3590.0	3550.5
20°	3758.6	3726.7	3687.2	3665.9	3650.8	3602.1	3567.2	3524.7	3488.2	3448.7	3404.6
22.5°	3641.6	3597.6	3553.5	3523.1	3506.4	3457.8	3410.7	3372.7	3333.2	3287.7	3255.7
25°	3509.5	3454.8	3401.6	3371.2	3345.4	3293.7	3248.2	3208.7	3160.0	3120.5	3088.6
27.5°	3360.6	3298.3	3236.0	3205.6	3181.3	3125.1	3076.5	3035.5	2988.4	2953.4	2920.0
30°	3182.8	3126.6	3067.4	3043.1	3014.2	2956.5	2900.2	2863.8	2812.1	2775.7	2739.2
32.5°	2961.0	2924.6	2877.5	2844.0	2828.8	2775.7	2728.6	2684.5	2640.5	2611.6	2575.1
35°	2717.9	2686.0	2646.5	2628.3	2608.5	2575.1	2537.1	2499.2	2464.2	2436.9	2403.5
37.5°	2471.8	2439.9	2415.6	2395.9	2383.7	2353.3	2330.5	2301.7	2277.4	2251.5	2233.3
40°	2216.6	2207.5	2181.6	2172.5	2169.5	2136.1	2116.3	2093.5	2078.3	2063.1	2052.5
42.5°	1990.2	1975.0	1955.3	1956.8	1947.7	1929.4	1915.8	1900.6	1889.9	1882.3	1871.7
45°	1766.9	1754.7	1745.6	1753.2	1738.0	1731.9	1721.3	1719.8	1712.2	1698.5	1694.0
47.5°	1554.2	1552.7	1554.2	1549.6	1546.6	1543.6	1545.1	1537.5	1529.9	1525.3	1519.2
50°	1359.7	1361.2	1364.3	1368.8	1358.2	1362.8	1361.2	1359.7	1359.7	1355.2	1358.2
52.5°	1171.3	1172.9	1175.9	1180.5	1182.0	1182.0	1186.5	1189.6	1195.6	1203.2	1203.2
55°	993.6	1004.2	1010.3	1017.9	1013.3	1022.5	1027.0	1040.7	1045.2	1045.2	1051.3
57.5°	835.6	846.2	850.8	859.9	862.9	870.5	882.7	890.3	900.9	910.0	919.1
60°	691.3	695.8	708.0	721.6	718.6	736.8	746.0	758.1	771.8	777.9	790.0
62.5°	562.1	568.2	577.3	581.9	592.5	601.6	622.9	635.0	647.2	662.4	674.5
65°	446.7	452.7	461.9	471.0	475.5	489.2	499.8	521.1	531.7	548.4	562.1
67.5°	341.8	350.9	358.5	364.6	367.7	381.3	398.0	407.2	426.9	443.6	454.3
70°	255.2	262.8	271.9	270.4	276.5	287.1	299.3	313.0	328.2	343.4	355.5
72.5°	177.8	185.3	191.4	192.9	199.0	206.6	215.7	226.4	238.5	253.7	270.4
75°	112.4	113.9	120.0	123.1	126.1	135.2	142.8	153.4	164.1	176.2	186.9
77.5°	56.2	60.8	63.8	66.8	68.4	76.0	83.6	92.7	101.8	113.9	124.6
80°	21.3	22.8	27.3	28.9	31.9	36.5	42.5	47.1	54.7	63.8	69.9
82.5°	7.6	9.1	10.6	10.6	12.2	15.2	16.7	21.3	25.8	28.9	31.9
85°	3.0	3.0	3.0	3.0	3.0	4.6	4.6	6.1	7.6	9.1	9.1
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: P879349

CATALOG NUMBER: LD4C100D010 EU41009027 4LBLDWL1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5	4062.5
2.5°	4045.8	4045.8	4044.2	4042.7	4042.7	4042.7	4041.2	4041.2
5°	4009.3	4004.7	4003.2	4000.2	3998.7	3997.1	3992.6	3992.6
7.5°	3950.0	3944.0	3939.4	3934.9	3928.8	3924.2	3924.2	3918.1
10°	3871.0	3858.9	3852.8	3846.7	3839.1	3830.0	3827.0	3822.4
12.5°	3775.3	3751.0	3744.9	3734.3	3722.2	3716.1	3705.4	3705.4
15°	3656.8	3631.0	3617.3	3611.3	3596.1	3585.4	3580.9	3568.7
17.5°	3518.6	3498.8	3477.6	3468.4	3451.7	3438.1	3432.0	3430.5
20°	3378.8	3346.9	3333.2	3319.6	3299.8	3287.7	3278.5	3266.4
22.5°	3217.8	3188.9	3169.2	3160.0	3143.3	3122.1	3106.9	3106.9
25°	3047.6	3021.8	3011.2	2991.4	2971.6	2964.1	2945.8	2942.8
27.5°	2885.1	2859.2	2838.0	2827.3	2804.5	2793.9	2778.7	2772.6
30°	2716.4	2686.0	2670.8	2669.3	2642.0	2631.3	2619.2	2613.1
32.5°	2547.8	2522.0	2506.8	2497.6	2485.5	2467.3	2456.6	2450.5
35°	2380.7	2364.0	2350.3	2339.6	2319.9	2310.8	2301.7	2294.1
37.5°	2205.9	2190.8	2184.7	2175.6	2166.4	2149.7	2146.7	2140.6
40°	2037.3	2017.6	2017.6	2011.5	2002.4	2000.9	1996.3	1996.3
42.5°	1861.1	1852.0	1850.4	1852.0	1845.9	1842.8	1838.3	1848.9
45°	1686.4	1690.9	1683.3	1684.8	1681.8	1687.9	1687.9	1694.0
47.5°	1525.3	1519.2	1522.3	1525.3	1529.9	1529.9	1528.4	1526.8
50°	1353.7	1359.7	1365.8	1358.2	1361.2	1362.8	1355.2	1356.7
52.5°	1206.3	1207.8	1212.4	1207.8	1212.4	1210.8	1213.9	1207.8
55°	1063.5	1063.5	1069.6	1071.1	1072.6	1077.1	1078.7	1083.2
57.5°	925.2	932.8	940.4	938.9	945.0	951.0	946.5	951.0
60°	805.2	811.3	818.9	821.9	826.5	829.5	829.5	832.5
62.5°	683.7	695.8	701.9	708.0	708.0	714.0	720.1	721.6
65°	574.3	587.9	592.5	597.1	600.1	606.2	613.8	612.3
67.5°	471.0	480.1	486.2	489.2	498.3	501.4	507.4	513.5
70°	369.2	381.3	385.9	392.0	399.6	405.6	411.7	414.8
72.5°	282.6	291.7	294.7	300.8	308.4	314.5	317.5	322.1
75°	197.5	212.7	214.2	218.8	224.8	232.4	237.0	235.5
77.5°	130.7	141.3	142.8	148.9	155.0	161.0	162.6	164.1
80°	77.5	83.6	85.1	88.1	92.7	95.7	98.8	101.8
82.5°	36.5	39.5	42.5	42.5	45.6	48.6	48.6	50.1
85°	12.2	12.2	13.7	13.7	15.2	15.2	16.7	15.2
87.5°	1.5	1.5	0.0	1.5	1.5	1.5	1.5	1.5
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)