

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: P879354

Luminaire Tested: **LD4C100D010 EU41009040 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: P879354
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 EU41009040 4LBDWWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

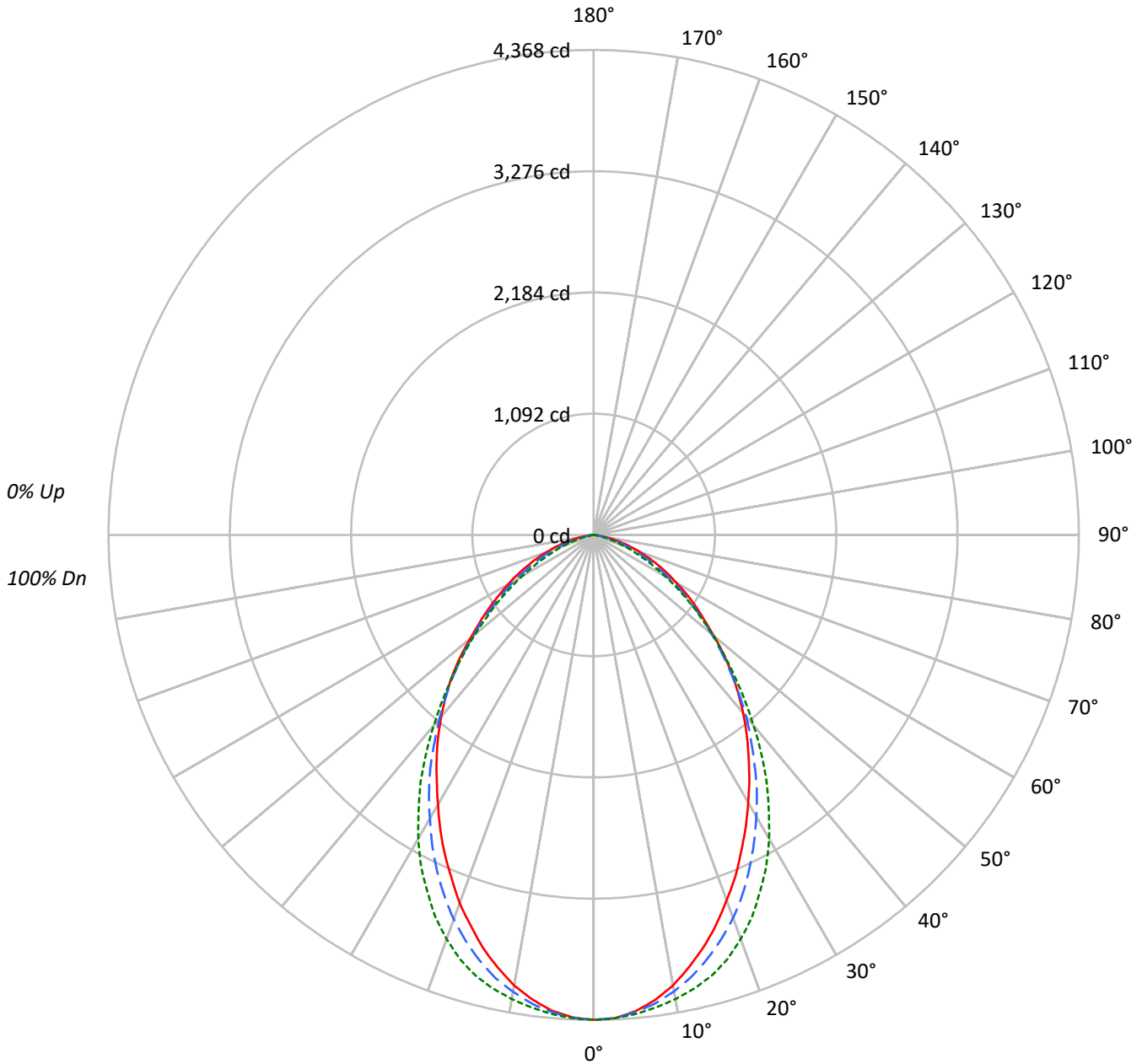
Lumens per Lamp: N/A
Luminaire Lumens: 7812.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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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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°	536575	536575	536575
5°	531102	534074	530510
10°	513827	529433	514027
15°	488170	522651	489811
20°	457557	506204	461335
25°	426141	480281	430058
30°	394779	448019	397730
35°	364203	407261	369737
40°	335951	358836	342125
45°	304307	310996	313498
50°	269774	266392	276521
55°	240491	224341	245974
60°	210448	182069	218335
65°	184185	140813	190697
70°	154995	103126	163041
75°	121041	66976	127923
80°	79451	35162	87374
85°	27064	15787	36226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	5.2
10°-20°	1114.0	14.3
20°-30°	1532.1	19.6
30°-40°	1598.3	20.5
40°-50°	1367.5	17.5
50°-60°	978.1	12.5
60°-70°	567.6	7.3
70°-80°	218.8	2.8
80°-90°	27.8	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°	3053.8	39.1
0°-40°	4652.2	59.6
0°-60°	6997.8	89.6
0°-90°	7812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7812.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4368	4368	4368	4368	4368	
5°	4307	4315	4331	4315	4302	405
15°	3838	3954	4109	3968	3851	1076
25°	3144	3317	3543	3338	3173	1446
35°	2428	2525	2716	2565	2465	1521
45°	1752	1737	1790	1780	1804	1350
55°	1123	1067	1047	1096	1148	1004
65°	634	560	484	579	656	632
75°	255	191	141	202	270	274
85°	19	14	11	16	26	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°	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6
2.5°	4356.3	4353.1	4354.7	4354.7	4354.7	4353.1	4356.3	4356.3	4354.7	4354.7	4354.7
5°	4306.6	4303.4	4305.0	4306.6	4306.6	4306.6	4308.2	4309.8	4311.4	4313.0	4314.6
7.5°	4226.4	4221.6	4226.4	4232.8	4232.8	4234.4	4236.0	4237.6	4242.4	4250.5	4255.3
10°	4118.9	4118.9	4120.5	4125.4	4133.4	4131.8	4136.6	4144.6	4154.2	4165.5	4173.5
12.5°	3982.6	3985.8	3990.6	3995.4	4003.5	4008.3	4016.3	4025.9	4041.9	4058.0	4075.6
15°	3838.2	3839.9	3841.5	3852.7	3860.7	3871.9	3878.3	3897.6	3912.0	3934.5	3953.7
17.5°	3676.2	3674.6	3679.5	3689.1	3708.3	3713.1	3721.2	3742.0	3762.9	3793.3	3819.0
20°	3499.8	3509.4	3515.9	3528.7	3539.9	3552.7	3559.2	3584.8	3608.9	3637.8	3671.4
22.5°	3333.0	3325.0	3336.2	3350.6	3360.3	3369.9	3381.1	3408.4	3434.1	3469.3	3503.0
25°	3143.7	3148.6	3156.6	3167.8	3180.6	3193.5	3206.3	3235.2	3249.6	3286.5	3317.0
27.5°	2964.1	2972.1	2975.3	2989.8	3001.0	3010.6	3017.0	3050.7	3063.5	3095.6	3126.1
30°	2782.9	2790.9	2790.9	2806.9	2814.9	2824.6	2840.6	2863.0	2882.3	2904.8	2927.2
32.5°	2608.0	2608.0	2614.4	2628.9	2636.9	2648.1	2652.9	2669.0	2688.2	2710.7	2734.7
35°	2428.4	2433.2	2439.6	2439.6	2454.0	2460.5	2466.9	2482.9	2495.7	2505.4	2524.6
37.5°	2263.2	2263.2	2258.4	2266.4	2276.0	2274.4	2284.0	2292.0	2300.1	2311.3	2327.3
40°	2094.8	2094.8	2088.3	2093.2	2099.6	2098.0	2094.8	2102.8	2109.2	2117.2	2133.3
42.5°	1923.1	1919.9	1918.3	1918.3	1921.5	1918.3	1921.5	1923.1	1923.1	1923.1	1932.8
45°	1751.5	1759.5	1749.9	1746.7	1741.9	1737.1	1735.5	1737.1	1743.5	1735.5	1737.1
47.5°	1583.1	1586.3	1579.9	1575.1	1570.3	1567.1	1570.3	1560.6	1563.8	1565.5	1559.0
50°	1411.5	1405.1	1405.1	1400.2	1401.9	1400.2	1397.0	1393.8	1393.8	1385.8	1381.0
52.5°	1252.7	1255.9	1259.1	1247.9	1249.5	1241.5	1243.1	1235.0	1235.0	1225.4	1228.6
55°	1122.8	1118.0	1118.0	1113.1	1111.5	1103.5	1101.9	1097.1	1085.9	1079.5	1066.6
57.5°	988.0	986.4	980.0	981.6	972.0	970.4	967.2	959.2	951.1	943.1	928.7
60°	856.5	858.1	858.1	854.9	850.1	842.1	843.7	832.4	821.2	806.8	794.0
62.5°	747.4	742.6	741.0	737.8	728.2	728.2	720.2	712.2	700.9	686.5	675.3
65°	633.6	635.2	630.4	625.5	615.9	614.3	607.9	601.5	590.3	575.8	559.8
67.5°	530.9	527.7	526.1	521.3	511.7	510.1	505.2	490.8	481.2	466.7	453.9
70°	431.5	428.3	429.9	421.8	412.2	407.4	405.8	394.6	380.1	368.9	356.1
72.5°	338.4	338.4	336.8	328.8	324.0	320.8	314.4	301.5	293.5	280.7	271.1
75°	255.0	253.4	250.2	245.4	239.0	235.8	232.6	224.6	213.3	198.9	190.9
77.5°	176.4	178.0	174.8	173.2	165.2	160.4	158.8	154.0	144.4	134.7	126.7
80°	112.3	110.7	109.1	105.9	104.3	102.7	97.8	94.6	85.0	80.2	75.4
82.5°	61.0	57.7	57.7	56.1	52.9	51.3	49.7	46.5	44.9	41.7	38.5
85°	19.2	20.9	19.2	19.2	19.2	17.6	17.6	17.6	16.0	16.0	14.4
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°	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6
2.5°	4354.7	4356.3	4356.3	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9
5°	4319.4	4319.4	4322.6	4325.8	4325.8	4325.8	4327.5	4330.7	4330.7	4330.7	4329.1
7.5°	4261.7	4268.1	4274.5	4280.9	4282.5	4284.1	4287.4	4293.8	4293.8	4293.8	4293.8
10°	4186.3	4200.7	4208.8	4218.4	4223.2	4226.4	4236.0	4237.6	4242.4	4244.0	4242.4
12.5°	4090.1	4109.3	4127.0	4143.0	4149.4	4155.8	4165.5	4175.1	4179.9	4184.7	4183.1
15°	3982.6	4003.5	4030.7	4048.4	4061.2	4070.8	4085.3	4098.1	4106.1	4109.3	4109.3
17.5°	3852.7	3878.3	3907.2	3936.1	3944.1	3960.1	3976.2	3993.8	4003.5	4005.1	4003.5
20°	3708.3	3737.2	3761.3	3790.1	3807.8	3815.8	3838.2	3860.7	3870.3	3871.9	3870.3
22.5°	3536.7	3564.0	3596.1	3626.5	3641.0	3655.4	3679.5	3701.9	3714.7	3724.4	3714.7
25°	3345.8	3384.3	3414.8	3440.5	3461.3	3475.8	3506.2	3523.9	3544.7	3543.1	3544.7
27.5°	3158.2	3190.3	3223.9	3254.4	3267.2	3283.3	3307.3	3336.2	3353.9	3365.1	3363.5
30°	2965.7	2991.4	3020.2	3047.5	3068.4	3081.2	3116.5	3129.3	3151.8	3158.2	3153.4
32.5°	2762.0	2779.6	2808.5	2845.4	2853.4	2866.3	2888.7	2920.8	2928.8	2932.0	2933.6
35°	2545.5	2579.1	2603.2	2625.7	2632.1	2643.3	2669.0	2693.0	2701.0	2715.5	2709.1
37.5°	2345.0	2364.2	2375.4	2397.9	2417.1	2426.8	2439.6	2455.6	2471.7	2478.1	2476.5
40°	2144.5	2154.1	2163.7	2187.8	2189.4	2189.4	2208.6	2231.1	2231.1	2237.5	2237.5
42.5°	1939.2	1940.8	1953.6	1966.4	1969.6	1972.9	1992.1	1995.3	2004.9	2009.7	2016.2
45°	1740.3	1749.9	1757.9	1759.5	1767.6	1769.2	1774.0	1778.8	1793.2	1790.0	1793.2
47.5°	1559.0	1563.8	1568.7	1568.7	1573.5	1571.9	1579.9	1575.1	1584.7	1587.9	1592.7
50°	1381.0	1389.0	1384.2	1387.4	1385.8	1390.6	1387.4	1387.4	1387.4	1393.8	1398.6
52.5°	1217.4	1219.0	1214.2	1215.8	1215.8	1212.6	1215.8	1214.2	1212.6	1212.6	1214.2
55°	1066.6	1060.2	1057.0	1050.6	1042.6	1052.2	1047.4	1044.2	1050.6	1047.4	1050.6
57.5°	920.7	912.6	906.2	903.0	891.8	898.2	891.8	888.6	888.6	888.6	896.6
60°	782.7	774.7	766.7	757.1	755.5	752.3	749.0	741.0	742.6	741.0	744.2
62.5°	662.4	646.4	635.2	627.1	625.5	620.7	615.9	607.9	609.5	609.5	611.1
65°	551.8	534.1	518.1	506.8	506.8	498.8	490.8	490.8	481.2	484.4	486.0
67.5°	441.1	426.7	410.6	402.6	397.8	391.4	386.6	383.3	378.5	378.5	381.7
70°	341.6	327.2	319.2	306.4	304.8	299.9	293.5	288.7	287.1	287.1	285.5
72.5°	258.2	245.4	235.8	227.8	222.9	218.1	211.7	210.1	206.9	206.9	210.1
75°	179.6	171.6	163.6	155.6	152.4	150.8	146.0	142.8	142.8	141.1	142.8
77.5°	120.3	112.3	104.3	101.0	97.8	94.6	93.0	91.4	86.6	86.6	86.6
80°	69.0	65.8	62.6	57.7	57.7	56.1	52.9	51.3	49.7	49.7	49.7
82.5°	35.3	33.7	30.5	28.9	28.9	28.9	27.3	27.3	25.7	25.7	25.7
85°	14.4	12.8	11.2	11.2	11.2	11.2	11.2	11.2	12.8	11.2	12.8
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°	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6
2.5°	4357.9	4356.3	4356.3	4356.3	4356.3	4356.3	4354.7	4354.7	4353.1	4353.1	4353.1
5°	4330.7	4329.1	4327.5	4325.8	4324.2	4322.6	4321.0	4319.4	4314.6	4313.0	4309.8
7.5°	4292.2	4289.0	4284.1	4282.5	4279.3	4274.5	4268.1	4264.9	4258.5	4250.5	4247.3
10°	4240.8	4234.4	4229.6	4221.6	4220.0	4213.6	4197.5	4189.5	4178.3	4168.7	4157.4
12.5°	4178.3	4171.9	4160.6	4149.4	4143.0	4128.6	4114.1	4101.3	4086.9	4066.0	4050.0
15°	4101.3	4091.7	4069.2	4066.0	4056.4	4033.9	4014.7	3990.6	3968.2	3945.7	3926.5
17.5°	3998.6	3977.8	3966.6	3952.1	3940.9	3912.0	3891.2	3863.9	3833.4	3807.8	3780.5
20°	3863.9	3841.5	3822.2	3814.2	3799.8	3774.1	3748.4	3714.7	3684.3	3652.2	3628.1
22.5°	3703.5	3689.1	3660.2	3650.6	3632.9	3607.3	3576.8	3544.7	3515.9	3480.6	3448.5
25°	3531.9	3511.0	3488.6	3469.3	3456.5	3432.4	3394.0	3369.9	3337.8	3299.3	3275.3
27.5°	3349.0	3325.0	3292.9	3280.1	3268.8	3236.8	3204.7	3174.2	3148.6	3114.9	3094.0
30°	3137.3	3119.7	3098.8	3082.8	3066.7	3041.1	3012.2	2976.9	2949.7	2933.6	2904.8
32.5°	2922.4	2908.0	2880.7	2872.7	2855.0	2834.2	2813.3	2787.7	2758.8	2734.7	2712.3
35°	2693.0	2678.6	2659.3	2644.9	2638.5	2624.1	2601.6	2579.1	2564.7	2537.4	2526.2
37.5°	2463.7	2458.9	2439.6	2425.2	2420.4	2402.7	2391.5	2375.4	2354.6	2348.2	2335.3
40°	2227.9	2224.7	2213.4	2211.8	2202.2	2197.4	2181.4	2168.5	2158.9	2154.1	2146.1
42.5°	2011.4	2008.1	1998.5	2000.1	1990.5	1987.3	1985.7	1974.5	1966.4	1956.8	1958.4
45°	1798.0	1794.8	1788.4	1785.2	1790.0	1788.4	1785.2	1780.4	1780.4	1782.0	1777.2
47.5°	1592.7	1595.9	1589.5	1592.7	1592.7	1587.9	1587.9	1594.3	1595.9	1599.1	1602.3
50°	1398.6	1408.3	1405.1	1409.9	1411.5	1413.1	1408.3	1416.3	1414.7	1429.1	1425.9
52.5°	1222.2	1223.8	1230.2	1231.8	1233.4	1235.0	1243.1	1249.5	1251.1	1257.5	1268.7
55°	1052.2	1053.8	1066.6	1066.6	1074.6	1076.2	1087.5	1090.7	1095.5	1113.1	1116.3
57.5°	891.8	901.4	907.8	911.0	915.9	923.9	930.3	944.7	952.7	964.0	975.2
60°	747.4	758.7	766.7	769.9	776.3	785.9	794.0	810.0	824.4	837.3	845.3
62.5°	614.3	623.9	630.4	641.6	641.6	649.6	668.8	678.5	694.5	705.7	720.2
65°	495.6	502.0	513.3	513.3	519.7	532.5	548.6	563.0	579.0	595.1	609.5
67.5°	388.2	393.0	399.4	405.8	409.0	425.0	437.9	458.7	473.2	484.4	502.0
70°	293.5	296.7	304.8	311.2	316.0	327.2	341.6	356.1	370.5	383.3	401.0
72.5°	210.1	216.5	224.6	229.4	232.6	240.6	255.0	269.5	282.3	295.1	304.8
75°	144.4	149.2	152.4	157.2	162.0	168.4	178.0	187.7	202.1	214.9	226.2
77.5°	89.8	94.6	99.4	101.0	102.7	109.1	115.5	125.1	134.7	144.4	152.4
80°	52.9	54.5	56.1	57.7	61.0	65.8	69.0	75.4	81.8	88.2	96.2
82.5°	27.3	28.9	30.5	30.5	30.5	32.1	36.9	40.1	41.7	44.9	49.7
85°	11.2	11.2	11.2	12.8	12.8	14.4	14.4	16.0	16.0	17.6	19.2
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: P879354

CATALOG NUMBER: LD4C100D010 EU41009040 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6	4367.6
2.5°	4351.5	4351.5	4351.5	4349.9	4351.5	4351.5	4351.5	4349.9
5°	4309.8	4306.6	4306.6	4305.0	4303.4	4303.4	4305.0	4301.8
7.5°	4240.8	4236.0	4232.8	4232.8	4231.2	4229.6	4229.6	4221.6
10°	4151.0	4141.4	4141.4	4138.2	4125.4	4123.8	4120.5	4120.5
12.5°	4038.7	4027.5	4021.1	4013.1	4005.1	3998.6	3997.0	3990.6
15°	3905.6	3891.2	3880.0	3876.7	3863.9	3854.3	3854.3	3851.1
17.5°	3761.3	3738.8	3730.8	3722.8	3705.1	3703.5	3700.3	3685.9
20°	3597.7	3576.8	3565.6	3557.6	3546.3	3530.3	3527.1	3528.7
22.5°	3426.0	3397.2	3387.5	3379.5	3368.3	3353.9	3353.9	3342.6
25°	3248.0	3222.3	3212.7	3203.1	3185.4	3179.0	3171.0	3172.6
27.5°	3066.7	3042.7	3034.7	3017.0	3005.8	2997.8	2989.8	2989.8
30°	2877.5	2864.7	2851.8	2850.2	2827.8	2818.1	2810.1	2803.7
32.5°	2694.6	2678.6	2672.2	2665.8	2654.5	2641.7	2640.1	2628.9
35°	2515.0	2499.0	2490.9	2484.5	2471.7	2466.9	2462.1	2465.3
37.5°	2325.7	2322.5	2317.7	2309.7	2301.7	2300.1	2293.6	2301.7
40°	2139.7	2138.1	2131.6	2133.3	2133.3	2130.0	2133.3	2133.3
42.5°	1960.0	1960.0	1953.6	1956.8	1958.4	1961.6	1966.4	1969.6
45°	1785.2	1783.6	1785.2	1788.4	1785.2	1793.2	1799.6	1804.4
47.5°	1605.6	1607.2	1613.6	1615.2	1618.4	1629.6	1629.6	1629.6
50°	1433.9	1441.9	1438.7	1448.4	1446.8	1453.2	1446.8	1446.8
52.5°	1270.3	1278.3	1280.0	1281.6	1291.2	1292.8	1292.8	1291.2
55°	1124.4	1135.6	1130.8	1138.8	1143.6	1146.8	1151.6	1148.4
57.5°	989.6	994.4	999.3	1000.9	1007.3	1010.5	1013.7	1010.5
60°	856.5	866.1	874.2	875.8	879.0	882.2	883.8	888.6
62.5°	731.4	747.4	750.6	752.3	760.3	765.1	768.3	771.5
65°	620.7	632.0	640.0	644.8	651.2	651.2	656.0	656.0
67.5°	513.3	524.5	529.3	532.5	542.1	543.7	551.8	551.8
70°	415.4	423.4	426.7	431.5	441.1	447.5	450.7	453.9
72.5°	320.8	330.4	335.2	341.6	348.1	352.9	354.5	359.3
75°	234.2	248.6	250.2	256.6	261.4	267.9	271.1	269.5
77.5°	163.6	168.4	174.8	178.0	182.9	187.7	192.5	192.5
80°	101.0	107.5	109.1	110.7	117.1	120.3	123.5	123.5
82.5°	52.9	56.1	59.3	61.0	64.2	64.2	65.8	67.4
85°	20.9	22.5	22.5	22.5	24.1	25.7	25.7	25.7
87.5°	3.2	4.8	3.2	3.2	4.8	4.8	4.8	4.8
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)