

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: P879352

Luminaire Tested: **LD4C100D010 EU41009035 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: P879352
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 EU41009035 4LBDWWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

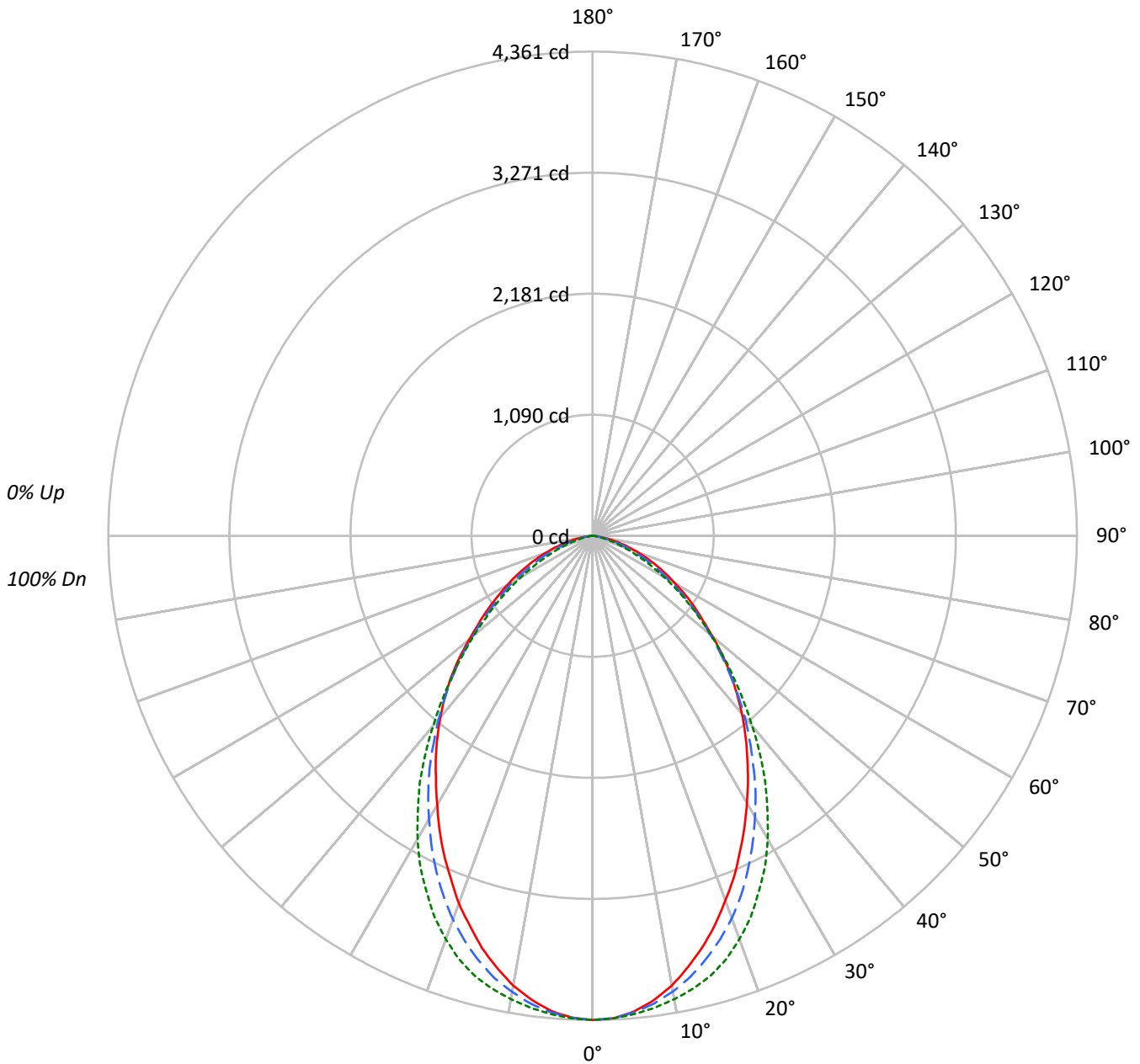
Lumens per Lamp: N/A
Luminaire Lumens: 7800.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P879352

CATALOG NUMBER: LD4C100D010 EU41009035 4LBLDWWH

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	100	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77	77	77	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67	67	67	67
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59	59	59	59
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52	52	52	52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47	47	47	47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42	42	42	42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38	38	38	38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32	32	32	32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	535739	535739	535739
5°	530288	533248	529696
10°	513041	528623	513241
15°	487433	521849	489061
20°	456851	505433	460629
25°	425490	479549	429394
30°	394169	447324	397120
35°	363633	406631	369167
40°	335422	358291	341596
45°	303838	310527	313029
50°	269354	265990	276082
55°	240105	223998	245610
60°	210129	181799	217991
65°	183894	140581	190406
70°	154743	102983	162789
75°	120851	66881	127686
80°	79309	35091	87233
85°	27064	15787	36085



TEST NUMBER: P879352

CATALOG NUMBER: LD4C100D010 EU41009035 4LBDWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.1	5.2
10°-20°	1112.3	14.3
20°-30°	1529.8	19.6
30°-40°	1595.9	20.5
40°-50°	1365.4	17.5
50°-60°	976.6	12.5
60°-70°	566.7	7.3
70°-80°	218.5	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°	3049.2	39.1
0°-40°	4645.0	59.6
0°-60°	6987.0	89.6
0°-90°	7800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7800.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4361	4361	4361	4361	4361	
5°	4300	4308	4324	4308	4295	404
15°	3832	3948	4103	3962	3845	1074
25°	3139	3312	3538	3333	3168	1444
35°	2425	2521	2711	2561	2462	1519
45°	1749	1734	1787	1778	1802	1348
55°	1121	1065	1046	1094	1147	1003
65°	633	559	484	578	655	631
75°	255	191	141	202	269	274
85°	19	14	11	16	26	37
90°	0	0	0	0	0	



TEST NUMBER: P879352

CATALOG NUMBER: LD4C100D010 EU41009035 4LBLDWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
2.5°	4349.6	4346.4	4348.0	4348.0	4348.0	4346.4	4349.6	4349.6	4348.0	4348.0	4348.0
5°	4300.0	4296.8	4298.4	4300.0	4300.0	4300.0	4301.6	4303.2	4304.8	4306.4	4308.0
7.5°	4219.9	4215.1	4219.9	4226.3	4226.3	4227.9	4229.5	4231.1	4235.9	4243.9	4248.7
10°	4112.6	4112.6	4114.2	4119.0	4127.0	4125.4	4130.2	4138.2	4147.8	4159.1	4167.1
12.5°	3976.5	3979.7	3984.5	3989.3	3997.3	4002.1	4010.1	4019.7	4035.7	4051.8	4069.4
15°	3832.4	3834.0	3835.6	3846.8	3854.8	3866.0	3872.4	3891.6	3906.0	3928.4	3947.7
17.5°	3670.6	3669.0	3673.8	3683.4	3702.6	3707.4	3715.4	3736.3	3757.1	3787.5	3813.1
20°	3494.4	3504.0	3510.5	3523.3	3534.5	3547.3	3553.7	3579.3	3603.3	3632.2	3665.8
22.5°	3327.9	3319.9	3331.1	3345.5	3355.1	3364.7	3375.9	3403.2	3428.8	3464.0	3497.6
25°	3138.9	3143.7	3151.7	3162.9	3175.7	3188.6	3201.4	3230.2	3244.6	3281.4	3311.9
27.5°	2959.5	2967.6	2970.8	2985.2	2996.4	3006.0	3012.4	3046.0	3058.8	3090.9	3121.3
30°	2778.6	2786.6	2786.6	2802.6	2810.6	2820.2	2836.2	2858.6	2877.9	2900.3	2922.7
32.5°	2604.0	2604.0	2610.4	2624.8	2632.8	2644.1	2648.9	2664.9	2684.1	2706.5	2730.5
35°	2424.6	2429.5	2435.9	2435.9	2450.3	2456.7	2463.1	2479.1	2491.9	2501.5	2520.7
37.5°	2259.7	2259.7	2254.9	2262.9	2272.5	2270.9	2280.5	2288.5	2296.5	2307.7	2323.8
40°	2091.5	2091.5	2085.1	2089.9	2096.3	2094.7	2091.5	2099.5	2106.0	2114.0	2130.0
42.5°	1920.2	1917.0	1915.4	1915.4	1918.6	1915.4	1918.6	1920.2	1920.2	1920.2	1929.8
45°	1748.8	1756.8	1747.2	1744.0	1739.2	1734.4	1732.8	1734.4	1740.8	1732.8	1734.4
47.5°	1580.7	1583.9	1577.5	1572.7	1567.9	1564.7	1567.9	1558.2	1561.4	1563.0	1556.6
50°	1409.3	1402.9	1402.9	1398.1	1399.7	1398.1	1394.9	1391.7	1391.7	1383.7	1378.9
52.5°	1250.8	1254.0	1257.2	1246.0	1247.6	1239.5	1241.2	1233.1	1233.1	1223.5	1226.7
55°	1121.0	1116.2	1116.2	1111.4	1109.8	1101.8	1100.2	1095.4	1084.2	1077.8	1065.0
57.5°	986.5	984.9	978.5	980.1	970.5	968.9	965.7	957.7	949.7	941.7	927.3
60°	855.2	856.8	856.8	853.6	848.8	840.8	842.4	831.2	820.0	805.5	792.7
62.5°	746.3	741.5	739.9	736.7	727.1	727.1	719.1	711.1	699.8	685.4	674.2
65°	632.6	634.2	629.4	624.6	615.0	613.4	607.0	600.6	589.3	574.9	558.9
67.5°	530.1	526.9	525.3	520.5	510.9	509.3	504.5	490.1	480.4	466.0	453.2
70°	430.8	427.6	429.2	421.2	411.6	406.8	405.2	394.0	379.6	368.3	355.5
72.5°	337.9	337.9	336.3	328.3	323.5	320.3	313.9	301.1	293.1	280.3	270.7
75°	254.6	253.0	249.8	245.0	238.6	235.4	232.2	224.2	213.0	198.6	190.6
77.5°	176.2	177.8	174.6	173.0	165.0	160.1	158.5	153.7	144.1	134.5	126.5
80°	112.1	110.5	108.9	105.7	104.1	102.5	97.7	94.5	84.9	80.1	75.3
82.5°	60.9	57.7	57.7	56.1	52.8	51.2	49.6	46.4	44.8	41.6	38.4
85°	19.2	20.8	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



TEST NUMBER: P879352

CATALOG NUMBER: LD4C100D010 EU41009035 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
2.5°	4348.0	4349.6	4349.6	4351.2	4351.2	4351.2	4351.2	4351.2	4351.2	4351.2	4351.2
5°	4312.8	4312.8	4316.0	4319.2	4319.2	4319.2	4320.8	4324.0	4324.0	4324.0	4322.4
7.5°	4255.1	4261.5	4268.0	4274.4	4276.0	4277.6	4280.8	4287.2	4287.2	4287.2	4287.2
10°	4179.9	4194.3	4202.3	4211.9	4216.7	4219.9	4229.5	4231.1	4235.9	4237.5	4235.9
12.5°	4083.8	4103.0	4120.6	4136.6	4143.0	4149.4	4159.1	4168.7	4173.5	4178.3	4176.7
15°	3976.5	3997.3	4024.5	4042.1	4055.0	4064.6	4079.0	4091.8	4099.8	4103.0	4103.0
17.5°	3846.8	3872.4	3901.2	3930.0	3938.1	3954.1	3970.1	3987.7	3997.3	3998.9	3997.3
20°	3702.6	3731.5	3755.5	3784.3	3801.9	3809.9	3832.4	3854.8	3864.4	3866.0	3864.4
22.5°	3531.3	3558.5	3590.5	3621.0	3635.4	3649.8	3673.8	3696.2	3709.0	3718.6	3709.0
25°	3340.7	3379.1	3409.6	3435.2	3456.0	3470.4	3500.8	3518.5	3539.3	3537.7	3539.3
27.5°	3153.3	3185.4	3219.0	3249.4	3262.2	3278.2	3302.3	3331.1	3348.7	3359.9	3358.3
30°	2961.1	2986.8	3015.6	3042.8	3063.6	3076.5	3111.7	3124.5	3146.9	3153.3	3148.5
32.5°	2757.8	2775.4	2804.2	2841.0	2849.0	2861.9	2884.3	2916.3	2924.3	2927.5	2929.1
35°	2541.6	2575.2	2599.2	2621.6	2628.0	2639.2	2664.9	2688.9	2696.9	2711.3	2704.9
37.5°	2341.4	2360.6	2371.8	2394.2	2413.4	2423.0	2435.9	2451.9	2467.9	2474.3	2472.7
40°	2141.2	2150.8	2160.4	2184.4	2186.0	2186.0	2205.2	2227.7	2227.7	2234.1	2234.1
42.5°	1936.2	1937.8	1950.6	1963.4	1966.6	1969.8	1989.0	1992.2	2001.9	2006.7	2013.1
45°	1737.6	1747.2	1755.2	1756.8	1764.8	1766.4	1771.2	1776.0	1790.5	1787.3	1790.5
47.5°	1556.6	1561.4	1566.3	1566.3	1571.1	1569.5	1577.5	1572.7	1582.3	1585.5	1590.3
50°	1378.9	1386.9	1382.1	1385.3	1383.7	1388.5	1385.3	1385.3	1385.3	1391.7	1396.5
52.5°	1215.5	1217.1	1212.3	1213.9	1213.9	1210.7	1213.9	1212.3	1210.7	1210.7	1212.3
55°	1065.0	1058.6	1055.4	1049.0	1041.0	1050.6	1045.8	1042.6	1049.0	1045.8	1049.0
57.5°	919.3	911.2	904.8	901.6	890.4	896.8	890.4	887.2	887.2	887.2	895.2
60°	781.5	773.5	765.5	755.9	754.3	751.1	747.9	739.9	741.5	739.9	743.1
62.5°	661.4	645.4	634.2	626.2	624.6	619.8	615.0	607.0	608.6	608.6	610.2
65°	550.9	533.3	517.3	506.1	506.1	498.1	490.1	490.1	480.4	483.6	485.2
67.5°	440.4	426.0	410.0	402.0	397.2	390.8	386.0	382.8	378.0	378.0	381.2
70°	341.1	326.7	318.7	305.9	304.3	299.5	293.1	288.3	286.7	286.7	285.1
72.5°	257.8	245.0	235.4	227.4	222.6	217.8	211.4	209.8	206.6	206.6	209.8
75°	179.4	171.4	163.4	155.3	152.1	150.5	145.7	142.5	142.5	140.9	142.5
77.5°	120.1	112.1	104.1	100.9	97.7	94.5	92.9	91.3	86.5	86.5	86.5
80°	68.9	65.7	62.5	57.7	57.7	56.1	52.8	51.2	49.6	49.6	49.6
82.5°	35.2	33.6	30.4	28.8	28.8	28.8	27.2	27.2	25.6	25.6	25.6
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



TEST NUMBER: P879352

CATALOG NUMBER: LD4C100D010 EU41009035 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
2.5°	4351.2	4349.6	4349.6	4349.6	4349.6	4349.6	4348.0	4348.0	4346.4	4346.4	4346.4
5°	4324.0	4322.4	4320.8	4319.2	4317.6	4316.0	4314.4	4312.8	4308.0	4306.4	4303.2
7.5°	4285.6	4282.4	4277.6	4276.0	4272.8	4268.0	4261.5	4258.3	4251.9	4243.9	4240.7
10°	4234.3	4227.9	4223.1	4215.1	4213.5	4207.1	4191.1	4183.1	4171.9	4162.3	4151.0
12.5°	4171.9	4165.5	4154.3	4143.0	4136.6	4122.2	4107.8	4095.0	4080.6	4059.8	4043.7
15°	4095.0	4085.4	4063.0	4059.8	4050.2	4027.7	4008.5	3984.5	3962.1	3939.7	3920.4
17.5°	3992.5	3971.7	3960.5	3946.1	3934.8	3906.0	3885.2	3858.0	3827.5	3801.9	3774.7
20°	3858.0	3835.6	3816.3	3808.3	3793.9	3768.3	3742.7	3709.0	3678.6	3646.6	3622.6
22.5°	3697.8	3683.4	3654.6	3645.0	3627.4	3601.7	3571.3	3539.3	3510.5	3475.2	3443.2
25°	3526.5	3505.6	3483.2	3464.0	3451.2	3427.2	3388.7	3364.7	3332.7	3294.3	3270.2
27.5°	3343.9	3319.9	3287.8	3275.0	3263.8	3231.8	3199.8	3169.3	3143.7	3110.1	3089.3
30°	3132.5	3114.9	3094.1	3078.1	3062.0	3036.4	3007.6	2972.4	2945.1	2929.1	2900.3
32.5°	2917.9	2903.5	2876.3	2868.3	2850.6	2829.8	2809.0	2783.4	2754.6	2730.5	2708.1
35°	2688.9	2674.5	2655.3	2640.8	2634.4	2620.0	2597.6	2575.2	2560.8	2533.5	2522.3
37.5°	2459.9	2455.1	2435.9	2421.4	2416.6	2399.0	2387.8	2371.8	2351.0	2344.6	2331.8
40°	2224.5	2221.3	2210.0	2208.4	2198.8	2194.0	2178.0	2165.2	2155.6	2150.8	2142.8
42.5°	2008.3	2005.1	1995.4	1997.1	1987.4	1984.2	1982.6	1971.4	1963.4	1953.8	1955.4
45°	1795.3	1792.1	1785.7	1782.5	1787.3	1785.7	1782.5	1777.6	1777.6	1779.2	1774.4
47.5°	1590.3	1593.5	1587.1	1590.3	1590.3	1585.5	1585.5	1591.9	1593.5	1596.7	1599.9
50°	1396.5	1406.1	1402.9	1407.7	1409.3	1410.9	1406.1	1414.1	1412.5	1426.9	1423.7
52.5°	1220.3	1221.9	1228.3	1229.9	1231.5	1233.1	1241.2	1247.6	1249.2	1255.6	1266.8
55°	1050.6	1052.2	1065.0	1065.0	1073.0	1074.6	1085.8	1089.0	1093.8	1111.4	1114.6
57.5°	890.4	900.0	906.4	909.6	914.4	922.5	928.9	943.3	951.3	962.5	973.7
60°	746.3	757.5	765.5	768.7	775.1	784.7	792.7	808.7	823.2	836.0	844.0
62.5°	613.4	623.0	629.4	640.6	640.6	648.6	667.8	677.4	693.4	704.7	719.1
65°	494.9	501.3	512.5	512.5	518.9	531.7	547.7	562.1	578.1	594.2	608.6
67.5°	387.6	392.4	398.8	405.2	408.4	424.4	437.2	458.0	472.4	483.6	501.3
70°	293.1	296.3	304.3	310.7	315.5	326.7	341.1	355.5	369.9	382.8	400.4
72.5°	209.8	216.2	224.2	229.0	232.2	240.2	254.6	269.0	281.9	294.7	304.3
75°	144.1	148.9	152.1	156.9	161.7	168.2	177.8	187.4	201.8	214.6	225.8
77.5°	89.7	94.5	99.3	100.9	102.5	108.9	115.3	124.9	134.5	144.1	152.1
80°	52.8	54.5	56.1	57.7	60.9	65.7	68.9	75.3	81.7	88.1	96.1
82.5°	27.2	28.8	30.4	30.4	30.4	32.0	36.8	40.0	41.6	44.8	49.6
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: P879352

CATALOG NUMBER: LD4C100D010 EU41009035 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8	4360.8
2.5°	4344.8	4344.8	4344.8	4343.2	4344.8	4344.8	4344.8	4343.2
5°	4303.2	4300.0	4300.0	4298.4	4296.8	4296.8	4298.4	4295.2
7.5°	4234.3	4229.5	4226.3	4226.3	4224.7	4223.1	4223.1	4215.1
10°	4144.6	4135.0	4135.0	4131.8	4119.0	4117.4	4114.2	4114.2
12.5°	4032.5	4021.3	4014.9	4006.9	3998.9	3992.5	3990.9	3984.5
15°	3899.6	3885.2	3874.0	3870.8	3858.0	3848.4	3848.4	3845.2
17.5°	3755.5	3733.1	3725.1	3717.0	3699.4	3697.8	3694.6	3680.2
20°	3592.1	3571.3	3560.1	3552.1	3540.9	3524.9	3521.7	3523.3
22.5°	3420.8	3391.9	3382.3	3374.3	3363.1	3348.7	3348.7	3337.5
25°	3243.0	3217.4	3207.8	3198.2	3180.5	3174.1	3166.1	3167.7
27.5°	3062.0	3038.0	3030.0	3012.4	3001.2	2993.2	2985.2	2985.2
30°	2873.1	2860.3	2847.4	2845.8	2823.4	2813.8	2805.8	2799.4
32.5°	2690.5	2674.5	2668.1	2661.7	2650.5	2637.6	2636.0	2624.8
35°	2511.1	2495.1	2487.1	2480.7	2467.9	2463.1	2458.3	2461.5
37.5°	2322.2	2318.9	2314.1	2306.1	2298.1	2296.5	2290.1	2298.1
40°	2136.4	2134.8	2128.4	2130.0	2130.0	2126.8	2130.0	2130.0
42.5°	1957.0	1957.0	1950.6	1953.8	1955.4	1958.6	1963.4	1966.6
45°	1782.5	1780.9	1782.5	1785.7	1782.5	1790.5	1796.9	1801.7
47.5°	1603.1	1604.7	1611.1	1612.7	1615.9	1627.1	1627.1	1627.1
50°	1431.7	1439.7	1436.5	1446.1	1444.5	1450.9	1444.5	1444.5
52.5°	1268.4	1276.4	1278.0	1279.6	1289.2	1290.8	1290.8	1289.2
55°	1122.6	1133.9	1129.0	1137.1	1141.9	1145.1	1149.9	1146.7
57.5°	988.1	992.9	997.7	999.3	1005.7	1008.9	1012.1	1008.9
60°	855.2	864.8	872.8	874.4	877.6	880.8	882.4	887.2
62.5°	730.3	746.3	749.5	751.1	759.1	763.9	767.1	770.3
65°	619.8	631.0	639.0	643.8	650.2	650.2	655.0	655.0
67.5°	512.5	523.7	528.5	531.7	541.3	542.9	550.9	550.9
70°	414.8	422.8	426.0	430.8	440.4	446.8	450.0	453.2
72.5°	320.3	329.9	334.7	341.1	347.5	352.3	353.9	358.7
75°	233.8	248.2	249.8	256.2	261.0	267.4	270.7	269.0
77.5°	163.4	168.2	174.6	177.8	182.6	187.4	192.2	192.2
80°	100.9	107.3	108.9	110.5	116.9	120.1	123.3	123.3
82.5°	52.8	56.1	59.3	60.9	64.1	64.1	65.7	67.3
85°	20.8	22.4	22.4	22.4	24.0	25.6	25.6	25.6
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)