

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: P879356

Luminaire Tested: **LD4C100D010 EU41009050 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: P879356
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 EU41009050 4LBDWWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

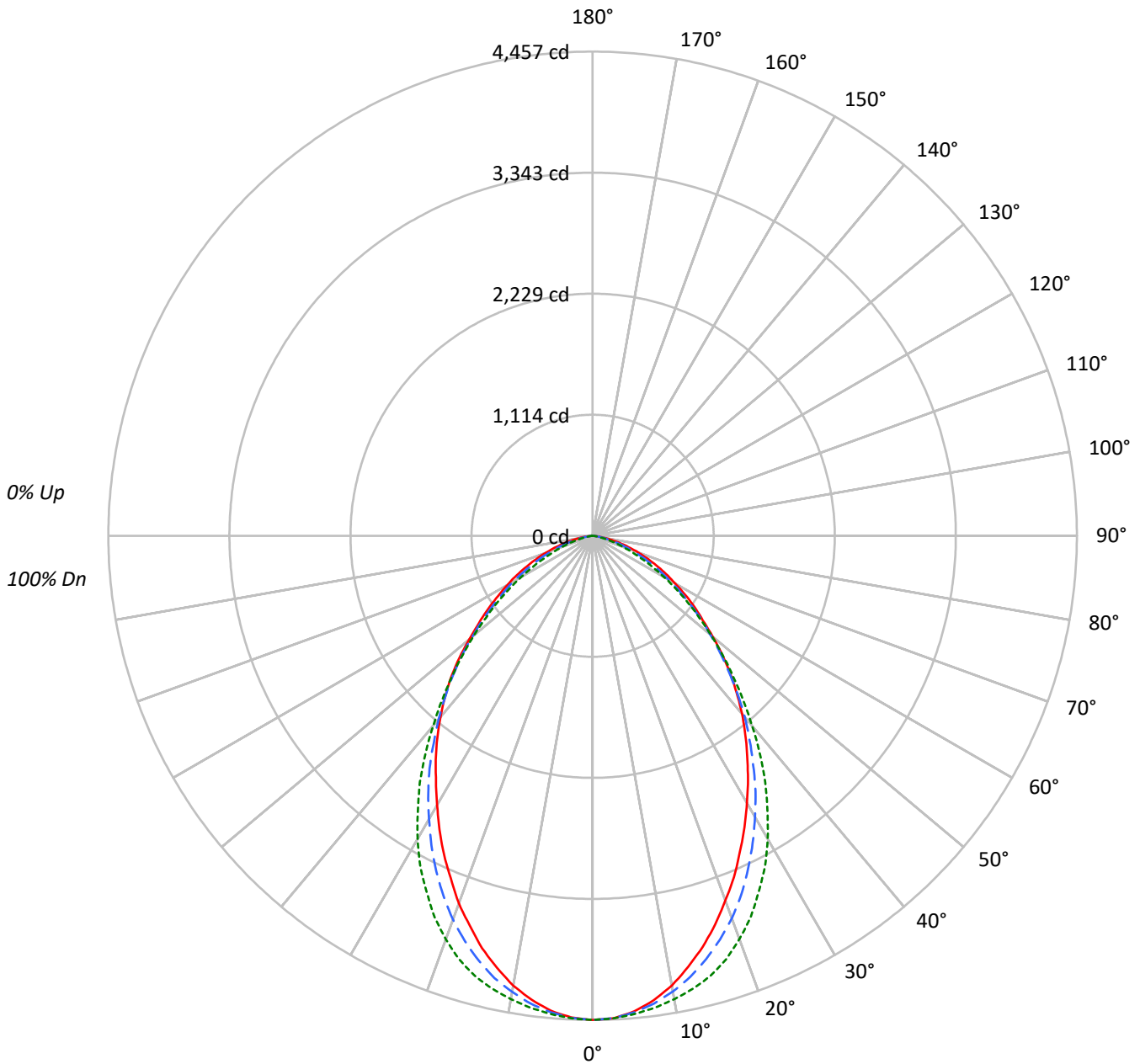
Lumens per Lamp: N/A
Luminaire Lumens: 7972.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59				59
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52				52
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	44	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°	547558	547558	547558
5°	541979	545013	541375
10°	524356	540287	524556
15°	498180	533360	499846
20°	466931	516572	470787
25°	434870	490122	438869
30°	402851	457197	405873
35°	371657	415600	377311
40°	342831	366182	349118
45°	310545	317373	319927
50°	275298	271858	282179
55°	245417	228925	251008
60°	214772	185804	222807
65°	187935	143691	194621
70°	158156	105245	166381
75°	123556	68352	130534
80°	81078	35869	89143
85°	27628	16210	36931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.1	5.2
10°-20°	1136.8	14.3
20°-30°	1563.5	19.6
30°-40°	1631.1	20.5
40°-50°	1395.5	17.5
50°-60°	998.2	12.5
60°-70°	579.2	7.3
70°-80°	223.3	2.8
80°-90°	28.4	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°	3116.4	39.1
0°-40°	4747.5	59.6
0°-60°	7141.1	89.6
0°-90°	7972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7972.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4457	4457	4457	4457	4457	
5°	4395	4403	4419	4403	4390	413
15°	3917	4035	4194	4049	3930	1098
25°	3208	3385	3616	3406	3238	1476
35°	2478	2576	2771	2617	2516	1552
45°	1787	1773	1827	1817	1841	1378
55°	1146	1088	1069	1118	1172	1025
65°	646	571	494	591	670	644
75°	260	195	144	206	275	280
85°	20	15	12	16	26	38
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°	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0
2.5°	4445.5	4442.3	4443.9	4443.9	4443.9	4442.3	4445.5	4445.5	4443.9	4443.9	4443.9
5°	4394.8	4391.5	4393.2	4394.8	4394.8	4394.8	4396.4	4398.1	4399.7	4401.4	4403.0
7.5°	4313.0	4308.1	4313.0	4319.5	4319.5	4321.1	4322.8	4324.4	4329.3	4337.5	4342.4
10°	4203.3	4203.3	4204.9	4209.8	4218.0	4216.4	4221.3	4229.5	4239.3	4250.8	4259.0
12.5°	4064.2	4067.4	4072.4	4077.3	4085.5	4090.4	4098.5	4108.4	4124.7	4141.1	4159.1
15°	3916.9	3918.5	3920.1	3931.6	3939.8	3951.2	3957.8	3977.4	3992.2	4015.1	4034.7
17.5°	3751.5	3749.9	3754.8	3764.6	3784.3	3789.2	3797.4	3818.7	3839.9	3871.0	3897.2
20°	3571.5	3581.3	3587.9	3601.0	3612.4	3625.5	3632.1	3658.2	3682.8	3712.3	3746.6
22.5°	3401.3	3393.1	3404.5	3419.3	3429.1	3438.9	3450.4	3478.2	3504.4	3540.4	3574.8
25°	3208.1	3213.0	3221.2	3232.7	3245.8	3258.9	3272.0	3301.4	3316.2	3353.8	3384.9
27.5°	3024.8	3033.0	3036.3	3051.0	3062.5	3072.3	3078.8	3113.2	3126.3	3159.0	3190.1
30°	2839.8	2848.0	2848.0	2864.4	2872.6	2882.4	2898.8	2921.7	2941.3	2964.2	2987.2
32.5°	2661.4	2661.4	2668.0	2682.7	2690.9	2702.4	2707.3	2723.6	2743.3	2766.2	2790.7
35°	2478.1	2483.0	2489.6	2489.6	2504.3	2510.8	2517.4	2533.8	2546.9	2556.7	2576.3
37.5°	2309.5	2309.5	2304.6	2312.8	2322.6	2321.0	2330.8	2339.0	2347.2	2358.6	2375.0
40°	2137.7	2137.7	2131.1	2136.0	2142.6	2140.9	2137.7	2145.8	2152.4	2160.6	2176.9
42.5°	1962.5	1959.2	1957.6	1957.6	1960.9	1957.6	1960.9	1962.5	1962.5	1962.5	1972.3
45°	1787.4	1795.6	1785.7	1782.5	1777.6	1772.7	1771.0	1772.7	1779.2	1771.0	1772.7
47.5°	1615.5	1618.8	1612.2	1607.3	1602.4	1599.2	1602.4	1592.6	1595.9	1597.5	1591.0
50°	1440.4	1433.8	1433.8	1428.9	1430.6	1428.9	1425.7	1422.4	1422.4	1414.2	1409.3
52.5°	1278.3	1281.6	1284.9	1273.4	1275.1	1266.9	1268.5	1260.3	1260.3	1250.5	1253.8
55°	1145.8	1140.8	1140.8	1135.9	1134.3	1126.1	1124.5	1119.6	1108.1	1101.6	1088.5
57.5°	1008.3	1006.6	1000.1	1001.7	991.9	990.3	987.0	978.8	970.6	962.4	947.7
60°	874.1	875.7	875.7	872.4	867.5	859.3	861.0	849.5	838.0	823.3	810.2
62.5°	762.7	757.8	756.2	752.9	743.1	743.1	734.9	726.7	715.3	700.6	689.1
65°	646.5	648.2	643.3	638.4	628.5	626.9	620.3	613.8	602.3	587.6	571.2
67.5°	541.8	538.5	536.9	532.0	522.1	520.5	515.6	500.9	491.0	476.3	463.2
70°	440.3	437.0	438.7	430.5	420.7	415.7	414.1	402.7	387.9	376.5	363.4
72.5°	345.4	345.4	343.7	335.5	330.6	327.4	320.8	307.7	299.5	286.4	276.6
75°	260.3	258.6	255.3	250.4	243.9	240.6	237.3	229.2	217.7	203.0	194.8
77.5°	180.0	181.7	178.4	176.8	168.6	163.7	162.0	157.1	147.3	137.5	129.3
80°	114.6	112.9	111.3	108.0	106.4	104.8	99.8	96.6	86.8	81.8	76.9
82.5°	62.2	58.9	58.9	57.3	54.0	52.4	50.7	47.5	45.8	42.6	39.3
85°	19.6	21.3	19.6	19.6	19.6	18.0	18.0	18.0	16.4	16.4	14.7
87.5°	1.6	3.3	1.6	1.6	3.3	1.6	1.6	3.3	1.6	1.6	3.3
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°	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0
2.5°	4443.9	4445.5	4445.5	4447.2	4447.2	4447.2	4447.2	4447.2	4447.2	4447.2	4447.2
5°	4407.9	4407.9	4411.2	4414.4	4414.4	4414.4	4416.1	4419.4	4419.4	4419.4	4417.7
7.5°	4349.0	4355.5	4362.1	4368.6	4370.3	4371.9	4375.2	4381.7	4381.7	4381.7	4381.7
10°	4272.0	4286.8	4295.0	4304.8	4309.7	4313.0	4322.8	4324.4	4329.3	4331.0	4329.3
12.5°	4173.8	4193.5	4211.5	4227.9	4234.4	4240.9	4250.8	4260.6	4265.5	4270.4	4268.8
15°	4064.2	4085.5	4113.3	4131.3	4144.4	4154.2	4168.9	4182.0	4190.2	4193.5	4193.5
17.5°	3931.6	3957.8	3987.2	4016.7	4024.9	4041.3	4057.6	4075.6	4085.5	4087.1	4085.5
20°	3784.3	3813.7	3838.3	3867.8	3885.8	3893.9	3916.9	3939.8	3949.6	3951.2	3949.6
22.5°	3609.1	3637.0	3669.7	3700.8	3715.5	3730.3	3754.8	3777.7	3790.8	3800.6	3790.8
25°	3414.4	3453.6	3484.7	3510.9	3532.2	3546.9	3578.0	3596.0	3617.3	3615.7	3617.3
27.5°	3222.9	3255.6	3290.0	3321.1	3334.2	3350.5	3375.1	3404.5	3422.5	3434.0	3432.4
30°	3026.4	3052.6	3082.1	3109.9	3131.2	3144.3	3180.3	3193.4	3216.3	3222.9	3217.9
32.5°	2818.6	2836.6	2866.0	2903.7	2911.9	2925.0	2947.9	2980.6	2988.8	2992.1	2993.7
35°	2597.6	2632.0	2656.5	2679.4	2686.0	2697.4	2723.6	2748.2	2756.4	2771.1	2764.6
37.5°	2393.0	2412.6	2424.1	2447.0	2466.7	2476.5	2489.6	2505.9	2522.3	2528.9	2527.2
40°	2188.4	2198.2	2208.0	2232.6	2234.2	2234.2	2253.9	2276.8	2276.8	2283.3	2283.3
42.5°	1978.9	1980.5	1993.6	2006.7	2010.0	2013.3	2032.9	2036.2	2046.0	2050.9	2057.5
45°	1775.9	1785.7	1793.9	1795.6	1803.8	1805.4	1810.3	1815.2	1829.9	1826.7	1829.9
47.5°	1591.0	1595.9	1600.8	1600.8	1605.7	1604.1	1612.2	1607.3	1617.2	1620.4	1625.3
50°	1409.3	1417.5	1412.6	1415.8	1414.2	1419.1	1415.8	1415.8	1415.8	1422.4	1427.3
52.5°	1242.3	1244.0	1239.1	1240.7	1240.7	1237.4	1240.7	1239.1	1237.4	1237.4	1239.1
55°	1088.5	1081.9	1078.7	1072.1	1063.9	1073.7	1068.8	1065.6	1072.1	1068.8	1072.1
57.5°	939.5	931.3	924.8	921.5	910.1	916.6	910.1	906.8	906.8	906.8	915.0
60°	798.8	790.6	782.4	772.6	770.9	767.7	764.4	756.2	757.8	756.2	759.5
62.5°	676.0	659.6	648.2	640.0	638.4	633.4	628.5	620.3	622.0	622.0	623.6
65°	563.1	545.1	528.7	517.2	517.2	509.0	500.9	500.9	491.0	494.3	496.0
67.5°	450.1	435.4	419.0	410.8	405.9	399.4	394.5	391.2	386.3	386.3	389.6
70°	348.6	333.9	325.7	312.6	311.0	306.1	299.5	294.6	293.0	293.0	291.4
72.5°	263.5	250.4	240.6	232.4	227.5	222.6	216.1	214.4	211.1	211.1	214.4
75°	183.3	175.1	167.0	158.8	155.5	153.9	148.9	145.7	145.7	144.0	145.7
77.5°	122.8	114.6	106.4	103.1	99.8	96.6	94.9	93.3	88.4	88.4	88.4
80°	70.4	67.1	63.8	58.9	58.9	57.3	54.0	52.4	50.7	50.7	50.7
82.5°	36.0	34.4	31.1	29.5	29.5	29.5	27.8	27.8	26.2	26.2	26.2
85°	14.7	13.1	11.5	11.5	11.5	11.5	11.5	11.5	13.1	11.5	13.1
87.5°	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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°	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0
2.5°	4447.2	4445.5	4445.5	4445.5	4445.5	4445.5	4443.9	4443.9	4442.3	4442.3	4442.3
5°	4419.4	4417.7	4416.1	4414.4	4412.8	4411.2	4409.5	4407.9	4403.0	4401.4	4398.1
7.5°	4380.1	4376.8	4371.9	4370.3	4367.0	4362.1	4355.5	4352.2	4345.7	4337.5	4334.2
10°	4327.7	4321.1	4316.2	4308.1	4306.4	4299.9	4283.5	4275.3	4263.9	4254.0	4242.6
12.5°	4263.9	4257.3	4245.9	4234.4	4227.9	4213.1	4198.4	4185.3	4170.6	4149.3	4132.9
15°	4185.3	4175.5	4152.6	4149.3	4139.5	4116.5	4096.9	4072.4	4049.4	4026.5	4006.9
17.5°	4080.5	4059.3	4047.8	4033.1	4021.6	3992.2	3970.9	3943.0	3911.9	3885.8	3857.9
20°	3943.0	3920.1	3900.5	3892.3	3877.6	3851.4	3825.2	3790.8	3759.7	3727.0	3702.4
22.5°	3779.4	3764.6	3735.2	3725.4	3707.4	3681.2	3650.1	3617.3	3587.9	3551.9	3519.1
25°	3604.2	3583.0	3560.0	3540.4	3527.3	3502.8	3463.5	3438.9	3406.2	3366.9	3342.3
27.5°	3417.6	3393.1	3360.3	3347.3	3335.8	3303.1	3270.3	3239.2	3213.0	3178.7	3157.4
30°	3201.6	3183.6	3162.3	3145.9	3129.6	3103.4	3073.9	3037.9	3010.1	2993.7	2964.2
32.5°	2982.2	2967.5	2939.7	2931.5	2913.5	2892.2	2870.9	2844.8	2815.3	2790.7	2767.8
35°	2748.2	2733.5	2713.8	2699.1	2692.5	2677.8	2654.9	2632.0	2617.2	2589.4	2578.0
37.5°	2514.1	2509.2	2489.6	2474.8	2469.9	2451.9	2440.5	2424.1	2402.8	2396.3	2383.2
40°	2273.5	2270.2	2258.8	2257.1	2247.3	2242.4	2226.0	2213.0	2203.1	2198.2	2190.0
42.5°	2052.5	2049.3	2039.5	2041.1	2031.3	2028.0	2026.4	2014.9	2006.7	1996.9	1998.5
45°	1834.9	1831.6	1825.0	1821.8	1826.7	1825.0	1821.8	1816.8	1816.8	1818.5	1813.6
47.5°	1625.3	1628.6	1622.1	1625.3	1625.3	1620.4	1620.4	1627.0	1628.6	1631.9	1635.2
50°	1427.3	1437.1	1433.8	1438.7	1440.4	1442.0	1437.1	1445.3	1443.7	1458.4	1455.1
52.5°	1247.2	1248.9	1255.4	1257.1	1258.7	1260.3	1268.5	1275.1	1276.7	1283.3	1294.7
55°	1073.7	1075.4	1088.5	1088.5	1096.7	1098.3	1109.7	1113.0	1117.9	1135.9	1139.2
57.5°	910.1	919.9	926.4	929.7	934.6	942.8	949.3	964.1	972.3	983.7	995.2
60°	762.7	774.2	782.4	785.7	792.2	802.0	810.2	826.6	841.3	854.4	862.6
62.5°	626.9	636.7	643.3	654.7	654.7	662.9	682.5	692.4	708.7	720.2	734.9
65°	505.8	512.3	523.8	523.8	530.3	543.4	559.8	574.5	590.9	607.3	622.0
67.5°	396.1	401.0	407.6	414.1	417.4	433.8	446.8	468.1	482.9	494.3	512.3
70°	299.5	302.8	311.0	317.5	322.4	333.9	348.6	363.4	378.1	391.2	409.2
72.5°	214.4	221.0	229.2	234.1	237.3	245.5	260.3	275.0	288.1	301.2	311.0
75°	147.3	152.2	155.5	160.4	165.3	171.9	181.7	191.5	206.2	219.3	230.8
77.5°	91.7	96.6	101.5	103.1	104.8	111.3	117.8	127.7	137.5	147.3	155.5
80°	54.0	55.7	57.3	58.9	62.2	67.1	70.4	76.9	83.5	90.0	98.2
82.5°	27.8	29.5	31.1	31.1	31.1	32.7	37.6	40.9	42.6	45.8	50.7
85°	11.5	11.5	11.5	13.1	13.1	14.7	14.7	16.4	16.4	18.0	19.6
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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: P879356

CATALOG NUMBER: LD4C100D010 EU41009050 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0	4457.0
2.5°	4440.6	4440.6	4440.6	4439.0	4440.6	4440.6	4440.6	4439.0
5°	4398.1	4394.8	4394.8	4393.2	4391.5	4391.5	4393.2	4389.9
7.5°	4327.7	4322.8	4319.5	4319.5	4317.9	4316.2	4316.2	4308.1
10°	4236.0	4226.2	4226.2	4222.9	4209.8	4208.2	4204.9	4204.9
12.5°	4121.5	4110.0	4103.5	4095.3	4087.1	4080.5	4078.9	4072.4
15°	3985.6	3970.9	3959.4	3956.1	3943.0	3933.2	3933.2	3930.0
17.5°	3838.3	3815.4	3807.2	3799.0	3781.0	3779.4	3776.1	3761.4
20°	3671.3	3650.1	3638.6	3630.4	3619.0	3602.6	3599.3	3601.0
22.5°	3496.2	3466.7	3456.9	3448.7	3437.3	3422.5	3422.5	3411.1
25°	3314.5	3288.3	3278.5	3268.7	3250.7	3244.1	3236.0	3237.6
27.5°	3129.6	3105.0	3096.8	3078.8	3067.4	3059.2	3051.0	3051.0
30°	2936.4	2923.3	2910.2	2908.6	2885.7	2875.9	2867.7	2861.1
32.5°	2749.8	2733.5	2726.9	2720.4	2708.9	2695.8	2694.2	2682.7
35°	2566.5	2550.1	2541.9	2535.4	2522.3	2517.4	2512.5	2515.8
37.5°	2373.4	2370.1	2365.2	2357.0	2348.8	2347.2	2340.6	2348.8
40°	2183.5	2181.9	2175.3	2176.9	2176.9	2173.7	2176.9	2176.9
42.5°	2000.2	2000.2	1993.6	1996.9	1998.5	2001.8	2006.7	2010.0
45°	1821.8	1820.1	1821.8	1825.0	1821.8	1829.9	1836.5	1841.4
47.5°	1638.4	1640.1	1646.6	1648.3	1651.5	1663.0	1663.0	1663.0
50°	1463.3	1471.5	1468.2	1478.0	1476.4	1482.9	1476.4	1476.4
52.5°	1296.3	1304.5	1306.2	1307.8	1317.6	1319.3	1319.3	1317.6
55°	1147.4	1158.9	1153.9	1162.1	1167.0	1170.3	1175.2	1171.9
57.5°	1009.9	1014.8	1019.7	1021.4	1027.9	1031.2	1034.5	1031.2
60°	874.1	883.9	892.1	893.7	897.0	900.2	901.9	906.8
62.5°	746.4	762.7	766.0	767.7	775.8	780.8	784.0	787.3
65°	633.4	644.9	653.1	658.0	664.5	664.5	669.5	669.5
67.5°	523.8	535.2	540.1	543.4	553.2	554.9	563.1	563.1
70°	423.9	432.1	435.4	440.3	450.1	456.7	459.9	463.2
72.5°	327.4	337.2	342.1	348.6	355.2	360.1	361.7	366.6
75°	239.0	253.7	255.3	261.9	266.8	273.3	276.6	275.0
77.5°	167.0	171.9	178.4	181.7	186.6	191.5	196.4	196.4
80°	103.1	109.7	111.3	112.9	119.5	122.8	126.0	126.0
82.5°	54.0	57.3	60.6	62.2	65.5	65.5	67.1	68.7
85°	21.3	22.9	22.9	22.9	24.6	26.2	26.2	26.2
87.5°	3.3	4.9	3.3	3.3	4.9	4.9	4.9	4.9
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)