

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: P879357

Luminaire Tested: **LD4C100D010 EU41009050 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: P879357
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 EU41009050 4LBDWWLI
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

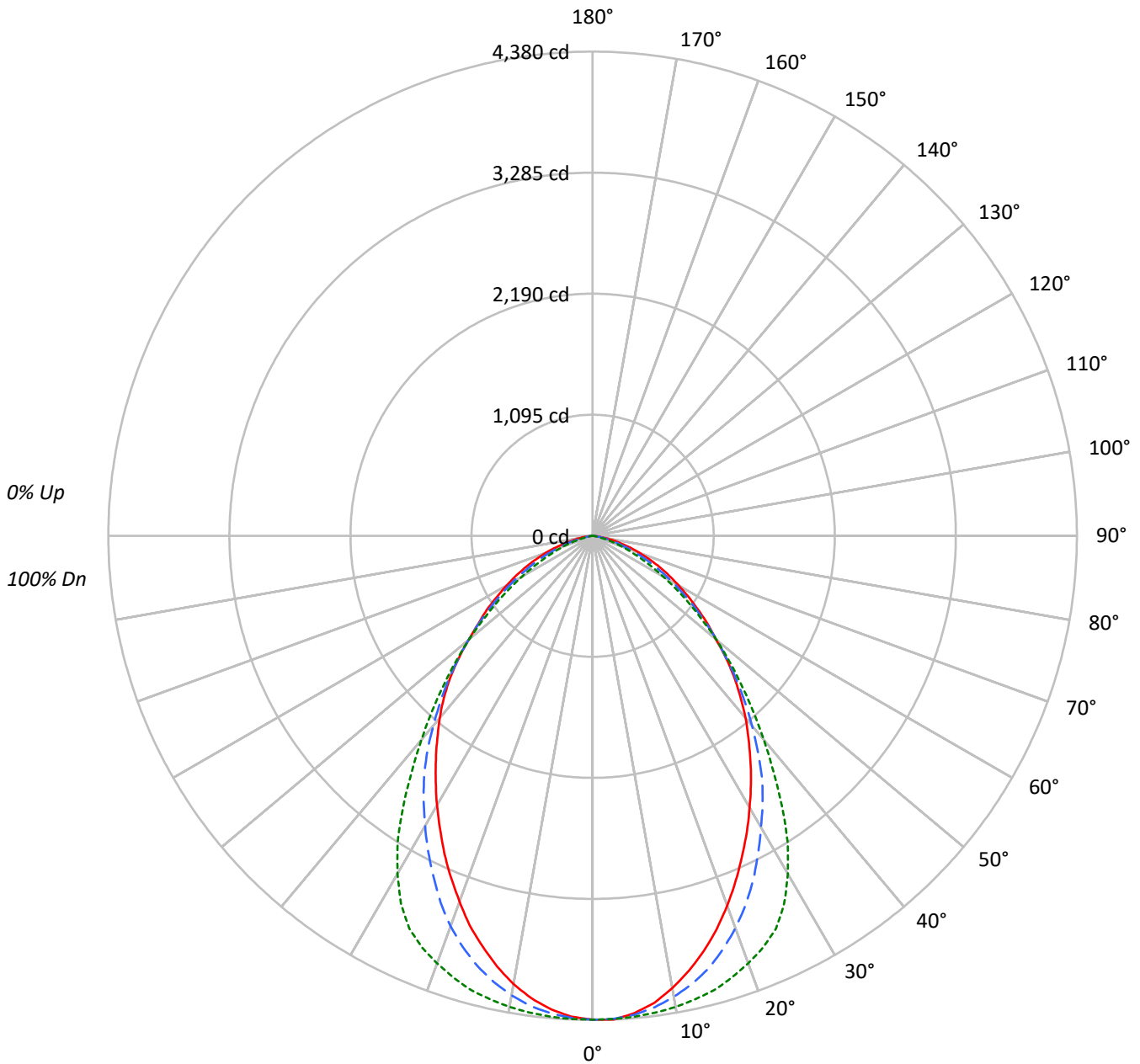
Lumens per Lamp: N/A
Luminaire Lumens: 8039.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									
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	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
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	45	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°	537754	537754	537754
5°	534555	538600	530522
10°	518281	539925	513790
15°	494466	541106	489061
20°	465257	538026	460119
25°	433366	531656	429814
30°	402667	500663	399404
35°	373411	447800	370712
40°	345221	386164	344948
45°	314558	329622	317112
50°	277821	278757	279388
55°	248930	227897	249979
60°	220006	180988	220399
65°	193662	137993	191772
70°	160526	98780	160526
75°	125075	56723	120424
80°	81078	13867	77611
85°	30024	4652	23117



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.9	5.1
10°-20°	1136.8	14.1
20°-30°	1589.1	19.8
30°-40°	1676.3	20.9
40°-50°	1426.1	17.7
50°-60°	1006.3	12.5
60°-70°	570.4	7.1
70°-80°	203.5	2.5
80°-90°	19.5	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°	3136.9	39.0
0°-40°	4813.2	59.9
0°-60°	7245.6	90.1
0°-90°	8039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8039.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4377	4377	4377	4377	4377	
5°	4335	4349	4367	4336	4302	408
15°	3888	4051	4254	4028	3845	1090
25°	3197	3436	3922	3405	3171	1471
35°	2490	2670	2986	2655	2472	1557
45°	1810	1837	1897	1845	1825	1392
55°	1162	1123	1064	1126	1167	1044
65°	666	571	475	573	660	660
75°	264	180	120	177	254	285
85°	21	8	3	8	16	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°	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2
2.5°	4380.5	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4372.3	4373.9	4373.9
5°	4334.6	4331.4	4329.7	4329.7	4329.7	4329.7	4331.4	4337.9	4341.2	4346.1	4349.4
7.5°	4262.6	4256.1	4259.3	4259.3	4262.6	4265.9	4270.8	4277.3	4287.2	4293.7	4301.9
10°	4154.6	4148.0	4156.2	4159.5	4169.3	4174.2	4182.4	4192.2	4211.9	4221.7	4234.8
12.5°	4028.5	4025.2	4028.5	4041.6	4051.4	4058.0	4067.8	4089.1	4108.7	4130.0	4152.9
15°	3887.7	3879.6	3884.5	3900.8	3917.2	3928.7	3936.8	3964.7	3990.9	4023.6	4051.4
17.5°	3730.6	3719.1	3732.2	3745.3	3766.6	3776.4	3787.9	3819.0	3855.0	3891.0	3922.1
20°	3558.7	3555.4	3563.6	3581.6	3602.9	3616.0	3625.8	3660.2	3691.3	3740.4	3776.4
22.5°	3380.3	3383.6	3390.1	3409.8	3424.5	3442.5	3457.2	3488.3	3524.3	3570.2	3616.0
25°	3197.0	3201.9	3213.3	3226.4	3251.0	3260.8	3278.8	3311.5	3342.6	3385.2	3435.9
27.5°	3020.2	3021.8	3034.9	3041.4	3064.4	3085.6	3093.8	3128.2	3164.2	3197.0	3241.1
30°	2838.5	2843.4	2851.6	2869.6	2892.5	2900.7	2910.5	2941.6	2969.4	3010.3	3044.7
32.5°	2664.9	2661.7	2671.5	2681.3	2707.5	2722.2	2727.1	2763.2	2787.7	2828.6	2861.4
35°	2489.8	2481.6	2496.3	2506.2	2529.1	2542.2	2548.7	2576.5	2599.5	2633.8	2669.9
37.5°	2314.6	2321.2	2327.7	2335.9	2347.4	2350.7	2370.3	2376.8	2406.3	2432.5	2452.1
40°	2152.6	2149.3	2146.0	2154.2	2169.0	2175.5	2177.1	2195.1	2201.7	2227.9	2242.6
42.5°	1979.1	1980.7	1979.1	1980.7	1988.9	1988.9	1993.8	2005.3	2010.2	2018.4	2036.4
45°	1810.5	1810.5	1805.5	1807.2	1808.8	1807.2	1808.8	1813.7	1823.6	1823.6	1836.7
47.5°	1635.3	1632.0	1638.6	1633.7	1630.4	1628.8	1633.7	1628.8	1638.6	1638.6	1641.9
50°	1453.6	1453.6	1461.8	1460.2	1463.4	1456.9	1458.5	1458.5	1460.2	1458.5	1465.1
52.5°	1312.8	1309.6	1306.3	1298.1	1301.4	1294.8	1294.8	1296.5	1291.5	1289.9	1281.7
55°	1162.2	1165.5	1160.6	1157.3	1157.3	1150.8	1149.1	1139.3	1132.8	1127.9	1122.9
57.5°	1026.4	1029.6	1028.0	1019.8	1010.0	1011.6	1008.4	998.5	983.8	974.0	965.8
60°	895.4	898.7	895.4	887.2	883.9	877.4	875.8	862.7	851.2	838.1	828.3
62.5°	777.5	777.5	775.9	764.5	756.3	757.9	749.7	739.9	725.2	707.2	692.4
65°	666.2	664.6	656.4	651.5	645.0	636.8	631.9	617.1	605.7	590.9	571.3
67.5°	554.9	550.0	546.7	541.8	527.1	525.5	518.9	505.8	489.4	478.0	461.6
70°	446.9	445.2	438.7	438.7	427.2	422.3	412.5	401.1	386.3	369.9	356.9
72.5°	353.6	350.3	343.8	337.2	327.4	324.1	315.9	304.5	291.4	275.0	258.6
75°	263.5	260.3	258.6	250.5	242.3	234.1	230.8	219.4	206.3	194.8	180.1
77.5°	185.0	181.7	176.8	171.9	167.0	162.1	157.1	147.3	135.9	126.0	112.9
80°	114.6	111.3	108.0	106.4	101.5	99.9	93.3	88.4	78.6	72.0	63.8
82.5°	58.9	58.9	55.7	54.0	50.7	49.1	47.5	42.6	37.6	32.7	27.8
85°	21.3	21.3	19.6	18.0	18.0	16.4	16.4	14.7	11.5	11.5	8.2
87.5°	1.6	1.6	3.3	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°	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2
2.5°	4375.6	4373.9	4375.6	4375.6	4377.2	4377.2	4377.2	4375.6	4377.2	4375.6	4375.6
5°	4349.4	4354.3	4357.5	4360.8	4362.5	4364.1	4364.1	4365.7	4367.4	4367.4	4365.7
7.5°	4308.4	4318.3	4328.1	4334.6	4337.9	4341.2	4346.1	4349.4	4352.6	4351.0	4349.4
10°	4254.4	4270.8	4283.9	4297.0	4303.5	4308.4	4316.6	4323.2	4326.4	4328.1	4323.2
12.5°	4177.5	4200.4	4221.7	4243.0	4252.8	4259.3	4275.7	4287.2	4293.7	4293.7	4288.8
15°	4080.9	4113.6	4144.7	4172.6	4188.9	4198.8	4223.3	4239.7	4249.5	4254.4	4246.2
17.5°	3964.7	4002.3	4040.0	4076.0	4092.4	4107.1	4141.5	4164.4	4185.7	4188.9	4179.1
20°	3815.7	3863.2	3905.7	3949.9	3968.0	3990.9	4030.2	4067.8	4100.5	4115.3	4087.4
22.5°	3648.7	3701.1	3740.4	3794.4	3819.0	3843.5	3894.3	3941.8	3999.1	4030.2	3981.0
25°	3475.2	3519.4	3566.9	3619.3	3653.7	3679.8	3738.8	3799.3	3876.3	3922.1	3853.4
27.5°	3288.6	3327.9	3385.2	3442.5	3468.7	3501.4	3571.8	3637.3	3711.0	3751.9	3701.1
30°	3095.5	3144.6	3198.6	3251.0	3288.6	3319.7	3377.0	3432.7	3494.9	3529.3	3491.6
32.5°	2903.9	2951.4	2997.2	3054.5	3075.8	3103.6	3154.4	3201.9	3249.3	3280.4	3236.2
35°	2702.6	2745.2	2787.7	2827.0	2836.8	2869.6	2910.5	2938.3	2961.2	2985.8	2956.3
37.5°	2483.2	2516.0	2537.3	2579.8	2596.2	2601.1	2633.8	2653.5	2678.0	2683.0	2681.3
40°	2260.6	2290.1	2308.1	2334.3	2347.4	2347.4	2370.3	2388.3	2406.3	2407.9	2406.3
42.5°	2052.7	2067.5	2082.2	2098.6	2095.3	2114.9	2124.8	2132.9	2146.0	2146.0	2149.3
45°	1843.2	1854.7	1867.8	1871.0	1884.1	1884.1	1892.3	1895.6	1902.1	1897.2	1890.7
47.5°	1648.4	1653.3	1655.0	1669.7	1673.0	1661.5	1671.3	1673.0	1671.3	1671.3	1668.0
50°	1463.4	1466.7	1465.1	1460.2	1461.8	1466.7	1461.8	1455.2	1458.5	1458.5	1461.8
52.5°	1283.4	1276.8	1273.5	1273.5	1267.0	1267.0	1258.8	1255.5	1253.9	1247.4	1255.5
55°	1118.0	1108.2	1093.5	1090.2	1085.3	1083.7	1073.8	1065.7	1062.4	1064.0	1062.4
57.5°	959.2	944.5	934.7	931.4	926.5	916.7	905.2	897.0	895.4	892.1	892.1
60°	815.2	798.8	784.1	769.4	771.0	764.5	753.0	748.1	743.2	736.6	741.5
62.5°	684.2	666.2	649.9	635.1	625.3	620.4	612.2	604.0	599.1	594.2	600.8
65°	554.9	540.2	522.2	507.5	502.5	497.6	489.4	476.4	474.7	474.7	478.0
67.5°	438.7	422.3	406.0	396.1	389.6	383.0	379.8	373.2	368.3	365.0	366.7
70°	337.2	320.8	307.7	297.9	293.0	291.4	279.9	278.3	276.6	275.0	273.4
72.5°	245.5	232.4	221.0	214.4	207.9	203.0	199.7	194.8	193.2	193.2	193.2
75°	168.6	158.8	145.7	137.5	134.2	129.3	124.4	121.1	117.9	119.5	119.5
77.5°	101.5	91.7	83.5	76.9	75.3	70.4	65.5	62.2	57.3	57.3	58.9
80°	55.7	47.5	40.9	36.0	32.7	31.1	26.2	24.6	21.3	19.6	19.6
82.5°	24.6	19.6	16.4	14.7	13.1	11.5	9.8	8.2	8.2	6.5	8.2
85°	8.2	6.5	4.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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°	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2
2.5°	4373.9	4373.9	4372.3	4372.3	4372.3	4369.0	4369.0	4367.4	4365.7	4364.1	4360.8
5°	4362.5	4360.8	4357.5	4355.9	4354.3	4349.4	4344.4	4341.2	4336.3	4329.7	4326.4
7.5°	4346.1	4341.2	4334.6	4331.4	4326.4	4315.0	4306.8	4298.6	4290.4	4279.0	4265.9
10°	4318.3	4308.4	4298.6	4292.1	4283.9	4269.1	4252.8	4239.7	4221.7	4205.3	4187.3
12.5°	4279.0	4267.5	4247.9	4238.0	4228.2	4206.9	4185.7	4157.8	4133.3	4110.4	4089.1
15°	4229.9	4208.6	4185.7	4172.6	4157.8	4123.5	4090.7	4061.3	4028.5	4000.7	3966.3
17.5°	4157.8	4126.7	4094.0	4079.3	4059.6	4020.3	3981.0	3940.1	3902.5	3868.1	3825.5
20°	4049.8	4015.4	3972.9	3949.9	3933.6	3881.2	3843.5	3797.7	3758.4	3715.9	3668.4
22.5°	3923.8	3876.3	3828.8	3796.1	3778.1	3725.7	3674.9	3634.0	3591.5	3542.3	3508.0
25°	3781.3	3722.4	3665.1	3632.4	3604.6	3548.9	3499.8	3457.2	3404.8	3362.3	3327.9
27.5°	3620.9	3553.8	3486.7	3454.0	3427.8	3367.2	3314.8	3270.6	3219.9	3182.2	3146.2
30°	3429.4	3368.8	3305.0	3278.8	3247.7	3185.5	3124.9	3085.6	3030.0	2990.7	2951.4
32.5°	3190.4	3151.1	3100.4	3064.4	3048.0	2990.7	2940.0	2892.5	2845.0	2813.9	2774.6
35°	2928.5	2894.1	2851.6	2831.9	2810.6	2774.6	2733.7	2692.8	2655.1	2625.7	2589.6
37.5°	2663.3	2628.9	2602.7	2581.5	2568.4	2535.6	2511.1	2480.0	2453.8	2426.0	2406.3
40°	2388.3	2378.5	2350.7	2340.8	2337.6	2301.5	2280.3	2255.7	2239.3	2223.0	2211.5
42.5°	2144.4	2128.0	2106.7	2108.4	2098.6	2078.9	2064.2	2047.8	2036.4	2028.2	2016.7
45°	1903.8	1890.7	1880.8	1889.0	1872.7	1866.1	1854.7	1853.0	1844.8	1830.1	1825.2
47.5°	1674.6	1673.0	1674.6	1669.7	1666.4	1663.1	1664.8	1656.6	1648.4	1643.5	1636.9
50°	1465.1	1466.7	1470.0	1474.9	1463.4	1468.3	1466.7	1465.1	1465.1	1460.2	1463.4
52.5°	1262.1	1263.7	1267.0	1271.9	1273.5	1273.5	1278.5	1281.7	1288.3	1296.5	1296.5
55°	1070.6	1082.0	1088.6	1096.8	1091.8	1101.7	1106.6	1121.3	1126.2	1126.2	1132.8
57.5°	900.3	911.8	916.7	926.5	929.8	938.0	951.1	959.2	970.7	980.5	990.4
60°	744.8	749.7	762.8	777.5	774.3	793.9	803.7	816.8	831.6	838.1	851.2
62.5°	605.7	612.2	622.0	626.9	638.4	648.2	671.1	684.2	697.3	713.7	726.8
65°	481.3	487.8	497.6	507.5	512.4	527.1	538.6	561.5	572.9	590.9	605.7
67.5°	368.3	378.1	386.3	392.9	396.1	410.9	428.9	438.7	460.0	478.0	489.4
70°	275.0	283.2	293.0	291.4	297.9	309.4	322.5	337.2	353.6	369.9	383.0
72.5°	191.5	199.7	206.3	207.9	214.4	222.6	232.4	243.9	257.0	273.4	291.4
75°	121.1	122.8	129.3	132.6	135.9	145.7	153.9	165.3	176.8	189.9	201.3
77.5°	60.6	65.5	68.8	72.0	73.7	81.8	90.0	99.9	109.7	122.8	134.2
80°	22.9	24.6	29.5	31.1	34.4	39.3	45.8	50.7	58.9	68.8	75.3
82.5°	8.2	9.8	11.5	11.5	13.1	16.4	18.0	22.9	27.8	31.1	34.4
85°	3.3	3.3	3.3	3.3	3.3	4.9	4.9	6.5	8.2	9.8	9.8
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: P879357

CATALOG NUMBER: LD4C100D010 EU41009050 4LBLDWLWI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2	4377.2
2.5°	4359.2	4359.2	4357.5	4355.9	4355.9	4355.9	4354.3	4354.3
5°	4319.9	4315.0	4313.3	4310.1	4308.4	4306.8	4301.9	4301.9
7.5°	4256.1	4249.5	4244.6	4239.7	4233.1	4228.2	4228.2	4221.7
10°	4170.9	4157.8	4151.3	4144.7	4136.6	4126.7	4123.5	4118.6
12.5°	4067.8	4041.6	4035.1	4023.6	4010.5	4004.0	3992.5	3992.5
15°	3940.1	3912.3	3897.6	3891.0	3874.6	3863.2	3858.3	3845.2
17.5°	3791.2	3769.9	3747.0	3737.1	3719.1	3704.4	3697.9	3696.2
20°	3640.6	3606.2	3591.5	3576.7	3555.4	3542.3	3532.5	3519.4
22.5°	3467.0	3435.9	3414.7	3404.8	3386.8	3363.9	3347.5	3347.5
25°	3283.7	3255.9	3244.4	3223.1	3201.9	3193.7	3174.0	3170.8
27.5°	3108.6	3080.7	3057.8	3046.4	3021.8	3010.3	2994.0	2987.4
30°	2926.9	2894.1	2877.7	2876.1	2846.6	2835.2	2822.1	2815.5
32.5°	2745.2	2717.3	2701.0	2691.1	2678.0	2658.4	2646.9	2640.4
35°	2565.1	2547.1	2532.4	2520.9	2499.6	2489.8	2480.0	2471.8
37.5°	2376.8	2360.5	2353.9	2344.1	2334.3	2316.3	2313.0	2306.5
40°	2195.1	2173.9	2173.9	2167.3	2157.5	2155.9	2150.9	2150.9
42.5°	2005.3	1995.4	1993.8	1995.4	1988.9	1985.6	1980.7	1992.2
45°	1817.0	1821.9	1813.7	1815.4	1812.1	1818.6	1818.6	1825.2
47.5°	1643.5	1636.9	1640.2	1643.5	1648.4	1648.4	1646.8	1645.1
50°	1458.5	1465.1	1471.6	1463.4	1466.7	1468.3	1460.2	1461.8
52.5°	1299.7	1301.4	1306.3	1301.4	1306.3	1304.6	1307.9	1301.4
55°	1145.9	1145.9	1152.4	1154.0	1155.7	1160.6	1162.2	1167.1
57.5°	996.9	1005.1	1013.3	1011.6	1018.2	1024.7	1019.8	1024.7
60°	867.6	874.1	882.3	885.6	890.5	893.8	893.8	897.0
62.5°	736.6	749.7	756.3	762.8	762.8	769.4	775.9	777.5
65°	618.8	633.5	638.4	643.3	646.6	653.1	661.3	659.7
67.5°	507.5	517.3	523.8	527.1	536.9	540.2	546.7	553.3
70°	397.8	410.9	415.8	422.3	430.5	437.1	443.6	446.9
72.5°	304.5	314.3	317.6	324.1	332.3	338.8	342.1	347.0
75°	212.8	229.2	230.8	235.7	242.3	250.5	255.4	253.7
77.5°	140.8	152.2	153.9	160.4	167.0	173.5	175.2	176.8
80°	83.5	90.0	91.7	94.9	99.9	103.1	106.4	109.7
82.5°	39.3	42.6	45.8	45.8	49.1	52.4	52.4	54.0
85°	13.1	13.1	14.7	14.7	16.4	16.4	18.0	16.4
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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)