

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: P859281

Luminaire Tested: **LD4C60D010 EU4609030 4LBSWNH**

Issue Date: 2/18/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P859281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C60D010 EU4609030 4LBSWNH  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

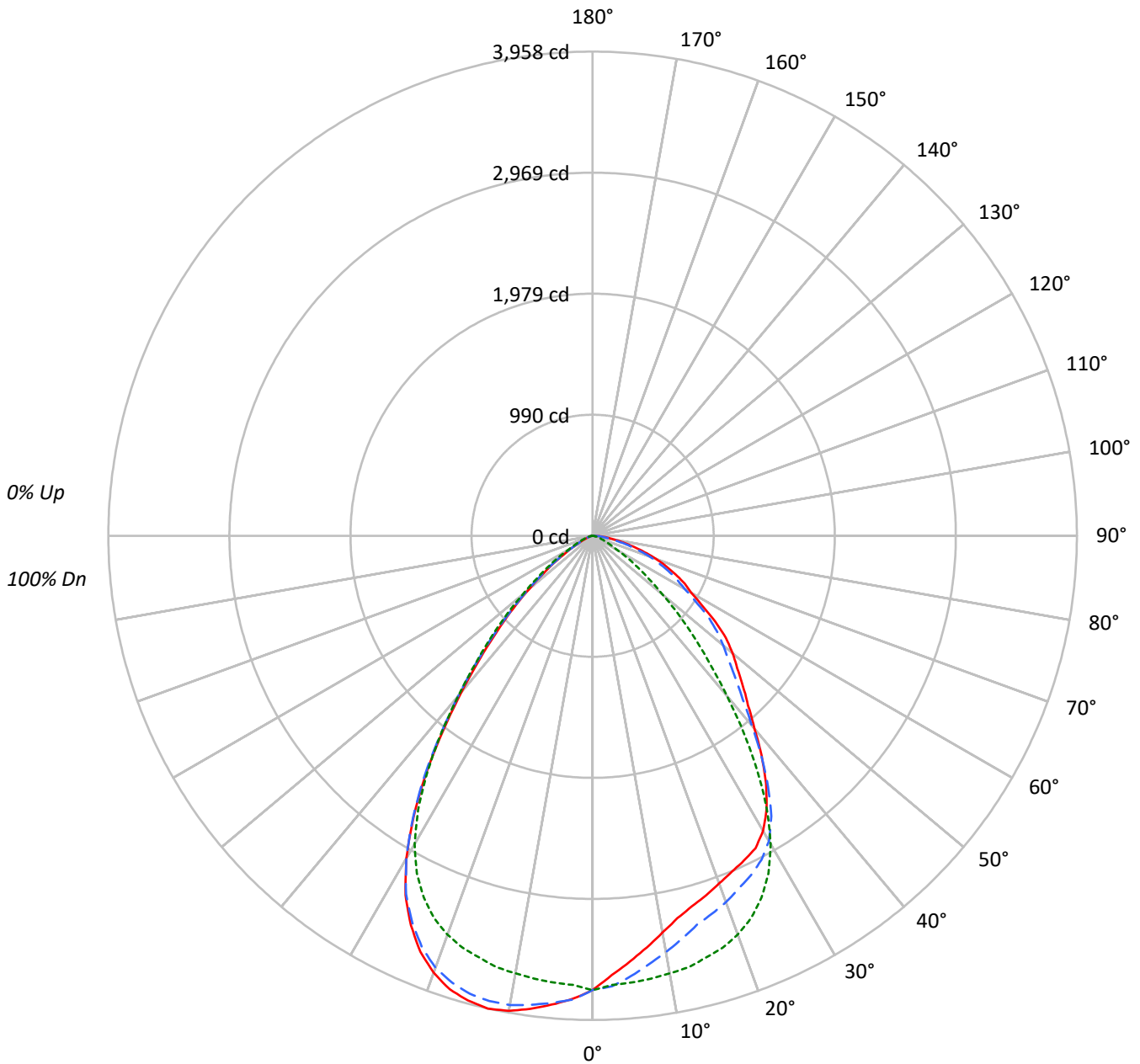
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6510.1 lumens  
Efficiency: N/A  
Efficacy: 66.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 97.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89				
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79				79				
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70				70				
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62				62				
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56				56				
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50				50				
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46				46				
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42				42				
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38				38				
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35				35				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	456266	456266	456266
5°	430853	452114	474534
10°	410772	453150	491959
15°	398707	454109	500355
20°	395430	453648	496817
25°	397024	442448	476173
30°	395134	412781	431790
35°	370367	352445	356014
40°	330033	273245	267135
45°	301840	203711	191237
50°	285389	142714	128972
55°	262445	96363	80963
60°	229294	56439	44670
65°	217063	36163	25029
70°	197739	25826	15481
75°	163619	18180	11392
80°	128621	10259	6721
85°	114740	6766	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.9	5.4
10°-20°	1006.7	15.5
20°-30°	1492.3	22.9
30°-40°	1494.4	23.0
40°-50°	1044.4	16.0
50°-60°	621.5	9.5
60°-70°	324.3	5.0
70°-80°	144.2	2.2
80°-90°	31.4	0.5
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°	2849.9	43.8
0°-40°	4344.3	66.7
0°-60°	6010.1	92.3
0°-90°	6510.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6510.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3714	3714	3714	3714	3714	
5°	3494	3613	3666	3834	3848	328
15°	3135	3293	3570	3877	3934	888
25°	2929	3063	3264	3489	3513	1349
35°	2470	2498	2350	2393	2374	1531
45°	1737	1651	1172	1134	1101	1349
55°	1225	1148	450	392	378	1087
65°	747	684	124	91	86	739
75°	345	302	38	24	24	373
85°	81	62	5	5	0	91
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°	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9
2.5°	3594.2	3637.4	3594.2	3608.7	3666.1	3613.4	3642.0	3642.0	3627.8	3661.3	3685.3
5°	3493.7	3536.8	3493.7	3512.8	3575.1	3522.4	3556.0	3546.4	3551.3	3580.0	3613.4
7.5°	3393.3	3426.7	3388.5	3412.5	3469.9	3426.7	3455.4	3455.4	3460.4	3503.2	3532.1
10°	3292.8	3321.4	3292.8	3311.9	3374.2	3335.9	3355.0	3359.7	3374.2	3412.5	3455.4
12.5°	3201.7	3225.7	3197.1	3225.7	3278.3	3240.0	3264.0	3268.8	3283.1	3326.4	3374.2
15°	3134.8	3158.8	3130.1	3153.9	3201.7	3173.1	3192.2	3201.7	3211.4	3249.6	3292.8
17.5°	3082.2	3101.4	3077.4	3106.0	3144.3	3111.0	3139.6	3139.6	3153.9	3192.2	3240.0
20°	3024.6	3043.8	3024.6	3048.6	3091.8	3063.1	3086.9	3086.9	3101.4	3144.3	3187.5
22.5°	2972.2	2981.7	2972.2	2991.3	3034.3	3010.4	3024.6	3029.6	3043.8	3082.2	3120.5
25°	2928.9	2948.1	2938.6	2957.7	2986.4	2962.5	2976.8	2981.7	2996.0	3029.6	3063.1
27.5°	2881.1	2890.8	2881.1	2905.1	2928.9	2909.8	2924.3	2919.4	2928.9	2957.7	2986.4
30°	2785.4	2795.1	2795.1	2809.3	2828.7	2819.0	2833.3	2819.0	2828.7	2852.5	2881.1
32.5°	2646.6	2651.6	2656.2	2670.6	2684.9	2670.6	2680.2	2680.2	2680.2	2699.4	2718.5
35°	2469.5	2479.1	2474.5	2484.0	2498.3	2493.5	2493.5	2488.7	2479.1	2488.7	2498.3
37.5°	2268.6	2254.1	2254.1	2268.6	2278.1	2259.1	2268.6	2259.1	2259.1	2263.7	2263.7
40°	2057.9	2043.7	2057.9	2062.8	2067.5	2057.9	2053.2	2043.7	2029.2	2034.1	2024.5
42.5°	1880.9	1871.3	1876.1	1876.1	1880.9	1871.3	1876.1	1857.0	1842.5	1833.0	1818.7
45°	1737.3	1723.0	1737.3	1727.8	1727.8	1723.0	1718.1	1708.6	1689.5	1675.2	1651.2
47.5°	1603.3	1603.3	1608.0	1608.0	1608.0	1598.5	1598.5	1579.3	1560.2	1541.0	1507.6
50°	1493.2	1483.6	1502.8	1502.8	1488.6	1483.6	1488.6	1464.5	1450.3	1426.2	1392.6
52.5°	1373.4	1373.4	1378.4	1378.4	1373.4	1363.9	1368.8	1349.6	1335.3	1311.3	1277.8
55°	1225.3	1215.7	1229.9	1229.9	1225.3	1220.4	1225.3	1210.8	1196.6	1177.5	1148.5
57.5°	1057.8	1052.8	1062.5	1067.3	1057.8	1057.8	1062.5	1048.2	1043.3	1024.2	995.4
60°	933.2	928.5	938.1	942.9	933.2	933.2	933.2	914.0	904.5	885.4	866.2
62.5°	847.1	842.4	851.9	847.1	842.4	837.5	842.4	823.3	813.6	794.5	775.4
65°	746.7	751.4	756.2	756.2	751.4	746.7	746.7	737.2	727.6	708.4	684.4
67.5°	650.8	650.8	655.7	660.4	655.7	655.7	655.7	641.2	631.7	617.4	588.7
70°	550.5	545.6	560.0	560.0	550.5	555.1	550.5	545.6	536.0	516.9	493.0
72.5°	445.0	445.0	449.9	449.9	445.0	445.0	445.0	440.3	425.8	416.3	392.5
75°	344.7	344.7	349.4	354.2	344.7	344.7	349.4	339.7	330.2	315.9	301.5
77.5°	258.5	253.7	258.5	258.5	253.7	253.7	253.7	249.0	244.0	229.7	215.4
80°	181.8	177.1	181.8	181.8	181.8	177.1	177.1	172.3	172.3	162.6	148.4
82.5°	124.4	119.7	124.4	124.4	124.4	119.7	119.7	119.7	114.8	110.2	100.5
85°	81.4	76.6	76.6	81.4	76.6	76.6	76.6	76.6	71.9	66.9	62.3
87.5°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	33.6	33.6	33.6	28.7
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°	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9
2.5°	3666.1	3656.5	3685.3	3675.6	3680.3	3656.5	3694.8	3675.6	3699.6	3675.6	3723.5
5°	3603.9	3594.2	3637.4	3632.5	3637.4	3618.2	3661.3	3656.5	3685.3	3666.1	3718.6
7.5°	3536.8	3527.3	3575.1	3580.0	3589.6	3570.4	3627.8	3627.8	3656.5	3651.7	3709.1
10°	3460.4	3465.0	3512.8	3522.4	3541.8	3532.1	3584.7	3599.2	3637.4	3632.5	3704.4
12.5°	3388.5	3388.5	3450.7	3469.9	3484.2	3479.4	3541.8	3560.9	3603.9	3613.4	3680.3
15°	3316.7	3321.4	3378.8	3407.6	3426.7	3422.1	3489.0	3512.8	3565.6	3570.4	3651.7
17.5°	3259.2	3254.5	3316.7	3340.6	3369.3	3364.7	3436.3	3465.0	3517.7	3532.1	3608.7
20°	3211.4	3206.7	3264.0	3292.8	3311.9	3307.2	3378.8	3412.5	3460.4	3469.9	3546.4
22.5°	3153.9	3144.3	3201.7	3225.7	3245.0	3240.0	3302.3	3326.4	3374.2	3383.8	3455.4
25°	3086.9	3077.4	3130.1	3144.3	3158.8	3149.3	3201.7	3216.2	3254.5	3264.0	3335.9
27.5°	3010.4	2986.4	3029.6	3029.6	3039.1	3024.6	3063.1	3077.4	3111.0	3111.0	3177.9
30°	2890.8	2857.3	2881.1	2876.5	2881.1	2862.0	2886.0	2890.8	2914.7	2909.8	2957.7
32.5°	2723.2	2675.4	2689.7	2675.4	2661.1	2632.4	2661.1	2651.6	2670.6	2651.6	2694.4
35°	2493.5	2445.7	2440.8	2421.7	2407.4	2383.4	2383.4	2359.6	2364.3	2350.0	2378.8
37.5°	2244.6	2182.5	2172.9	2134.6	2110.6	2082.0	2082.0	2062.8	2038.7	2029.2	2053.2
40°	2000.5	1933.5	1909.7	1847.4	1823.4	1794.7	1775.6	1751.7	1742.1	1703.8	1723.0
42.5°	1790.0	1718.1	1665.7	1598.5	1574.6	1531.5	1502.8	1474.1	1459.8	1416.7	1435.8
45°	1612.9	1526.7	1469.4	1383.1	1349.6	1301.8	1258.7	1225.3	1191.7	1172.5	1163.0
47.5°	1464.5	1373.4	1297.0	1201.3	1148.5	1105.6	1048.2	1014.6	971.6	947.6	933.2
50°	1340.1	1239.6	1153.4	1043.3	990.7	942.9	875.7	823.3	785.0	746.7	737.2
52.5°	1229.9	1124.7	1029.0	904.5	842.4	785.0	713.1	655.7	622.2	579.1	574.3
55°	1100.7	1009.9	904.5	775.4	713.1	655.7	579.1	521.8	478.6	449.9	440.3
57.5°	962.1	875.7	775.4	646.2	583.9	521.8	449.9	397.2	358.9	335.1	330.2
60°	832.8	751.4	655.7	526.5	464.1	411.6	335.1	282.3	249.0	229.7	220.1
62.5°	737.2	660.4	569.6	449.9	392.5	339.7	268.1	220.1	191.4	172.3	162.6
65°	646.2	569.6	488.2	378.0	330.2	282.3	215.4	172.3	143.5	124.4	114.8
67.5°	550.5	483.5	406.8	315.9	268.1	229.7	172.3	134.0	110.2	95.7	86.1
70°	454.6	392.5	330.2	253.7	220.1	181.8	134.0	105.2	81.4	71.9	62.3
72.5°	358.9	311.1	258.5	196.2	167.6	143.5	105.2	76.6	62.3	52.7	43.1
75°	268.1	234.5	191.4	148.4	124.4	105.2	76.6	57.4	47.8	38.3	33.6
77.5°	191.4	162.6	134.0	100.5	91.0	76.6	52.7	43.1	33.6	24.0	19.1
80°	129.3	114.8	91.0	71.9	57.4	52.7	38.3	28.7	19.1	14.5	14.5
82.5°	86.1	71.9	57.4	43.1	38.3	33.6	24.0	19.1	14.5	9.5	9.5
85°	52.7	43.1	33.6	24.0	24.0	19.1	14.5	9.5	4.8	4.8	4.8
87.5°	24.0	19.1	14.5	9.5	9.5	4.8	4.8	4.8	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°	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9
2.5°	3761.8	3733.1	3713.9	3737.7	3747.4	3733.1	3747.4	3771.3	3795.3	3800.1	3733.1
5°	3766.7	3737.7	3728.2	3756.9	3761.8	3756.9	3771.3	3804.9	3833.6	3843.2	3776.3
7.5°	3766.7	3747.4	3742.7	3776.3	3781.0	3776.3	3800.1	3838.4	3867.0	3886.2	3819.2
10°	3756.9	3747.4	3752.2	3781.0	3790.5	3790.5	3824.1	3867.0	3895.7	3914.8	3847.9
12.5°	3742.7	3742.7	3742.7	3776.3	3785.8	3790.5	3819.2	3876.6	3895.7	3924.5	3857.4
15°	3718.6	3718.6	3718.6	3752.2	3766.7	3766.7	3800.1	3852.7	3876.6	3905.3	3838.4
17.5°	3675.6	3675.6	3680.3	3709.1	3723.5	3723.5	3756.9	3814.6	3828.8	3862.4	3795.3
20°	3613.4	3613.4	3618.2	3647.0	3661.3	3651.7	3694.8	3742.7	3756.9	3785.8	3718.6
22.5°	3522.4	3522.4	3522.4	3551.3	3560.9	3556.0	3599.2	3642.0	3642.0	3680.3	3608.7
25°	3388.5	3398.0	3388.5	3417.1	3426.7	3422.1	3460.4	3498.5	3489.0	3532.1	3460.4
27.5°	3225.7	3220.9	3220.9	3245.0	3245.0	3240.0	3268.8	3311.9	3302.3	3331.0	3264.0
30°	3000.8	3015.1	2991.3	3024.6	3010.4	3000.8	3020.0	3058.2	3043.8	3067.9	3015.1
32.5°	2742.3	2723.2	2723.2	2723.2	2732.7	2708.9	2728.0	2747.2	2732.7	2756.8	2699.4
35°	2402.6	2407.4	2392.9	2397.9	2402.6	2373.8	2392.9	2412.1	2392.9	2407.4	2354.7
37.5°	2062.8	2067.5	2034.1	2053.2	2034.1	2024.5	2043.7	2053.2	2034.1	2048.4	1990.9
40°	1723.0	1713.5	1708.6	1708.6	1713.5	1689.5	1703.8	1718.1	1703.8	1713.5	1660.7
42.5°	1426.2	1421.5	1412.0	1416.7	1402.2	1397.5	1402.2	1416.7	1402.2	1412.0	1373.4
45°	1167.7	1158.2	1143.9	1148.5	1148.5	1124.7	1139.0	1148.5	1134.2	1139.0	1105.6
47.5°	928.5	914.0	914.0	909.3	909.3	899.8	914.0	909.3	894.9	904.5	871.1
50°	722.7	713.1	713.1	713.1	713.1	698.6	703.6	713.1	698.6	698.6	679.5
52.5°	564.8	550.5	540.8	540.8	540.8	536.0	536.0	540.8	526.5	526.5	521.8
55°	425.8	421.1	406.8	406.8	406.8	392.5	397.2	397.2	392.5	392.5	378.0
57.5°	315.9	301.5	291.9	291.9	282.3	282.3	277.6	282.3	272.8	272.8	263.2
60°	210.4	200.9	196.2	191.4	191.4	186.6	191.4	186.6	186.6	181.8	177.1
62.5°	153.1	143.5	134.0	134.0	134.0	129.3	129.3	129.3	129.3	129.3	124.4
65°	110.2	100.5	100.5	95.7	95.7	91.0	91.0	91.0	91.0	91.0	86.1
67.5°	76.6	71.9	66.9	66.9	66.9	66.9	66.9	66.9	62.3	62.3	62.3
70°	57.4	52.7	47.8	47.8	47.8	47.8	47.8	43.1	47.8	47.8	43.1
72.5°	38.3	38.3	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
75°	28.7	28.7	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
77.5°	19.1	19.1	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
80°	14.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	9.5	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	0.0
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: P859281

CATALOG NUMBER: LD4C60D010 EU4609030 4LBSWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9	3713.9
2.5°	3804.9	3800.1	3790.5	3804.9	3766.7	3752.2	3747.4	3790.5
5°	3857.4	3847.9	3847.9	3862.4	3819.2	3809.6	3800.1	3847.9
7.5°	3905.3	3895.7	3895.7	3910.2	3871.9	3862.4	3852.7	3900.6
10°	3934.0	3934.0	3934.0	3943.6	3910.2	3900.6	3895.7	3943.6
12.5°	3948.4	3948.4	3943.6	3962.7	3919.8	3919.8	3910.2	3958.1
15°	3929.3	3929.3	3929.3	3943.6	3905.3	3895.7	3895.7	3934.0
17.5°	3881.5	3881.5	3876.6	3891.0	3847.9	3847.9	3843.2	3886.2
20°	3809.6	3809.6	3800.1	3819.2	3776.3	3761.8	3756.9	3800.1
22.5°	3694.8	3689.9	3685.3	3694.8	3656.5	3647.0	3642.0	3680.3
25°	3546.4	3541.8	3532.1	3541.8	3498.5	3484.2	3484.2	3512.8
27.5°	3335.9	3335.9	3321.4	3335.9	3287.8	3283.1	3278.3	3311.9
30°	3077.4	3058.2	3048.6	3067.9	3020.0	3020.0	3010.4	3043.8
32.5°	2756.8	2737.6	2732.7	2742.3	2699.4	2684.9	2704.0	2723.2
35°	2388.3	2392.9	2373.8	2373.8	2335.5	2340.2	2345.1	2373.8
37.5°	2034.1	2024.5	2019.6	2024.5	1995.8	1986.3	1976.6	2005.4
40°	1703.8	1679.9	1675.2	1675.2	1651.2	1646.5	1651.2	1665.7
42.5°	1392.6	1387.9	1368.8	1378.4	1354.4	1363.9	1359.2	1359.2
45°	1124.7	1129.4	1110.3	1124.7	1105.6	1091.1	1091.1	1100.7
47.5°	890.2	890.2	885.4	885.4	871.1	875.7	866.2	880.7
50°	689.1	689.1	679.5	684.4	674.8	674.8	670.0	674.8
52.5°	526.5	521.8	521.8	516.9	507.3	512.2	516.9	507.3
55°	383.0	387.5	378.0	383.0	373.3	378.0	373.3	378.0
57.5°	263.2	268.1	258.5	268.1	258.5	263.2	258.5	258.5
60°	181.8	181.8	177.1	181.8	177.1	177.1	172.3	181.8
62.5°	124.4	124.4	124.4	124.4	124.4	119.7	124.4	124.4
65°	91.0	86.1	86.1	86.1	86.1	86.1	86.1	86.1
67.5°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
70°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
72.5°	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
75°	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
77.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
80°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	4.8	4.8	4.8	0.0	4.8	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)