

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: P879491

Luminaire Tested: **LD4C75D010 EU4759030 4LBLDWWLI**

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: P879491  
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: LD4C75D010 EU4759030 4LBLDWWLI  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

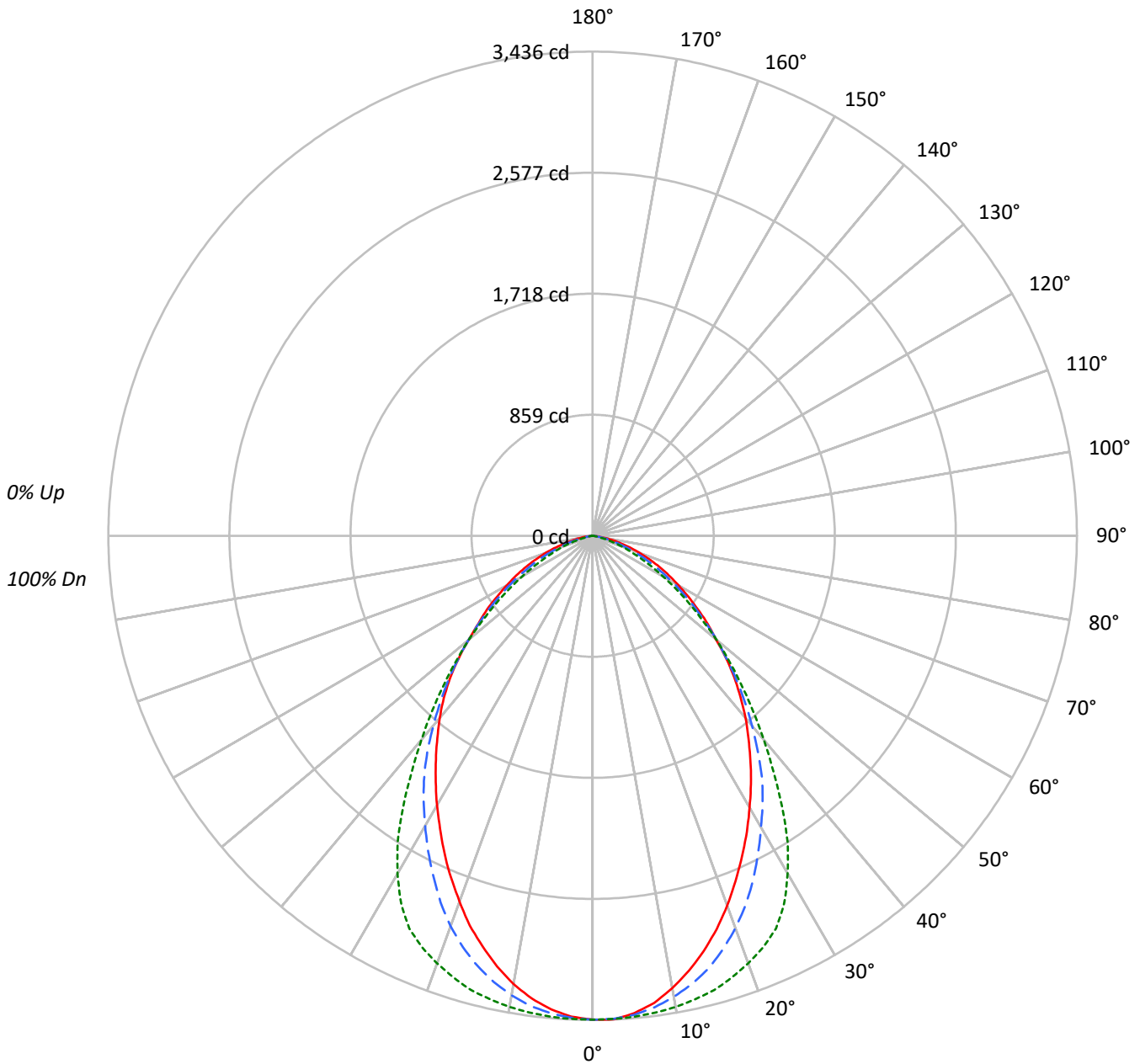
Lumens per Lamp: N/A  
Luminaire Lumens: 6306.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.5  
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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CATALOG NUMBER: LD4C75D010 EU4759030 4LBLDWWLI

### 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°	421830	421830	421830
5°	419322	422491	416153
10°	406544	423534	403026
15°	387870	424462	383635
20°	364955	422035	360928
25°	339942	417045	337149
30°	315863	392722	313310
35°	292919	351260	290789
40°	270791	302930	270599
45°	246747	258561	248745
50°	217922	218667	219164
55°	195276	178762	196090
60°	172585	141969	172904
65°	151918	108255	150435
70°	125899	77479	125899
75°	98114	44477	94459
80°	63603	10895	60844
85°	23540	3665	18043



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.3	5.1
10°-20°	891.8	14.1
20°-30°	1246.6	19.8
30°-40°	1315.0	20.9
40°-50°	1118.7	17.7
50°-60°	789.4	12.5
60°-70°	447.4	7.1
70°-80°	159.6	2.5
80°-90°	15.3	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°	2460.6	39.0
0°-40°	3775.6	59.9
0°-60°	5683.6	90.1
0°-90°	6306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6306.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3434	3434	3434	3434	3434	
5°	3400	3412	3426	3402	3374	320
15°	3050	3178	3337	3160	3016	855
25°	2508	2695	3077	2671	2487	1154
35°	1953	2094	2342	2083	1939	1221
45°	1420	1441	1488	1447	1432	1092
55°	912	881	835	883	916	819
65°	523	448	372	449	518	517
75°	207	141	94	139	199	224
85°	17	6	3	6	13	30
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°	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6
2.5°	3436.1	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3431.0	3431.0
5°	3400.2	3397.6	3396.3	3396.3	3396.3	3396.3	3397.6	3402.8	3405.3	3409.2	3411.8
7.5°	3343.7	3338.6	3341.1	3341.1	3343.7	3346.3	3350.1	3355.3	3363.0	3368.1	3374.5
10°	3258.9	3253.8	3260.2	3262.8	3270.5	3274.4	3280.8	3288.5	3303.9	3311.6	3321.9
12.5°	3160.1	3157.5	3160.1	3170.3	3178.1	3183.2	3190.9	3207.6	3223.0	3239.7	3257.7
15°	3049.6	3043.2	3047.1	3059.9	3072.8	3081.7	3088.2	3110.0	3130.5	3156.2	3178.1
17.5°	2926.4	2917.4	2927.7	2937.9	2954.6	2962.3	2971.3	2995.7	3024.0	3052.2	3076.6
20°	2791.5	2789.0	2795.4	2809.5	2826.2	2836.5	2844.2	2871.2	2895.6	2934.1	2962.3
22.5°	2651.6	2654.2	2659.3	2674.7	2686.3	2700.4	2711.9	2736.3	2764.6	2800.5	2836.5
25°	2507.8	2511.6	2520.6	2530.9	2550.1	2557.8	2572.0	2597.7	2622.1	2655.4	2695.2
27.5°	2369.1	2370.4	2380.6	2385.8	2403.8	2420.5	2426.9	2453.8	2482.1	2507.8	2542.4
30°	2226.6	2230.4	2236.8	2251.0	2268.9	2275.4	2283.1	2307.5	2329.3	2361.4	2388.4
32.5°	2090.5	2087.9	2095.6	2103.3	2123.8	2135.4	2139.2	2167.5	2186.8	2218.9	2244.5
35°	1953.1	1946.6	1958.2	1965.9	1983.9	1994.1	1999.3	2021.1	2039.1	2066.1	2094.3
37.5°	1815.7	1820.8	1825.9	1832.4	1841.3	1843.9	1859.3	1864.5	1887.6	1908.1	1923.5
40°	1688.5	1686.0	1683.4	1689.8	1701.4	1706.5	1707.8	1721.9	1727.1	1747.6	1759.2
42.5°	1552.4	1553.7	1552.4	1553.7	1560.1	1560.1	1564.0	1573.0	1576.8	1583.2	1597.4
45°	1420.2	1420.2	1416.3	1417.6	1418.9	1417.6	1418.9	1422.7	1430.4	1430.4	1440.7
47.5°	1282.8	1280.2	1285.3	1281.5	1278.9	1277.6	1281.5	1277.6	1285.3	1285.3	1287.9
50°	1140.2	1140.2	1146.7	1145.4	1148.0	1142.8	1144.1	1144.1	1145.4	1144.1	1149.2
52.5°	1029.8	1027.2	1024.7	1018.3	1020.8	1015.7	1015.7	1017.0	1013.1	1011.8	1005.4
55°	911.7	914.3	910.4	907.8	907.8	902.7	901.4	893.7	888.6	884.7	880.9
57.5°	805.1	807.7	806.4	800.0	792.3	793.5	791.0	783.3	771.7	764.0	757.6
60°	702.4	704.9	702.4	696.0	693.4	688.3	687.0	676.7	667.7	657.4	649.7
62.5°	609.9	609.9	608.6	599.7	593.2	594.5	588.1	580.4	568.8	554.7	543.2
65°	522.6	521.3	514.9	511.1	505.9	499.5	495.6	484.1	475.1	463.5	448.1
67.5°	435.3	431.4	428.9	425.0	413.5	412.2	407.0	396.8	383.9	374.9	362.1
70°	350.5	349.3	344.1	344.1	335.1	331.3	323.6	314.6	303.0	290.2	279.9
72.5°	277.4	274.8	269.7	264.5	256.8	254.2	247.8	238.8	228.6	215.7	202.9
75°	206.7	204.2	202.9	196.5	190.0	183.6	181.1	172.1	161.8	152.8	141.2
77.5°	145.1	142.5	138.7	134.8	131.0	127.1	123.3	115.6	106.6	98.9	88.6
80°	89.9	87.3	84.7	83.5	79.6	78.3	73.2	69.3	61.6	56.5	50.1
82.5°	46.2	46.2	43.7	42.4	39.8	38.5	37.2	33.4	29.5	25.7	21.8
85°	16.7	16.7	15.4	14.1	14.1	12.8	12.8	11.6	9.0	9.0	6.4
87.5°	1.3	1.3	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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°	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6
2.5°	3432.3	3431.0	3432.3	3432.3	3433.6	3433.6	3433.6	3432.3	3433.6	3432.3	3432.3
5°	3411.8	3415.6	3418.2	3420.7	3422.0	3423.3	3423.3	3424.6	3425.9	3425.9	3424.6
7.5°	3379.6	3387.4	3395.1	3400.2	3402.8	3405.3	3409.2	3411.8	3414.3	3413.0	3411.8
10°	3337.3	3350.1	3360.4	3370.7	3375.8	3379.6	3386.1	3391.2	3393.8	3395.1	3391.2
12.5°	3276.9	3294.9	3311.6	3328.3	3336.0	3341.1	3354.0	3363.0	3368.1	3368.1	3364.2
15°	3201.2	3226.8	3251.2	3273.1	3285.9	3293.6	3312.9	3325.7	3333.4	3337.3	3330.9
17.5°	3110.0	3139.5	3169.1	3197.3	3210.2	3221.7	3248.7	3266.7	3283.3	3285.9	3278.2
20°	2993.1	3030.4	3063.8	3098.4	3112.6	3130.5	3161.4	3190.9	3216.6	3228.1	3206.3
22.5°	2862.2	2903.3	2934.1	2976.5	2995.7	3015.0	3054.8	3092.0	3137.0	3161.4	3122.8
25°	2726.1	2760.7	2798.0	2839.1	2866.0	2886.6	2932.8	2980.3	3040.7	3076.6	3022.7
27.5°	2579.7	2610.5	2655.4	2700.4	2720.9	2746.6	2801.8	2853.2	2911.0	2943.1	2903.3
30°	2428.2	2466.7	2509.1	2550.1	2579.7	2604.1	2649.0	2692.7	2741.5	2768.4	2738.9
32.5°	2277.9	2315.2	2351.1	2396.1	2412.8	2434.6	2474.4	2511.6	2548.9	2573.3	2538.6
35°	2120.0	2153.4	2186.8	2217.6	2225.3	2251.0	2283.1	2304.9	2322.9	2342.1	2319.0
37.5°	1947.9	1973.6	1990.3	2023.7	2036.5	2040.4	2066.1	2081.5	2100.7	2104.6	2103.3
40°	1773.3	1796.4	1810.5	1831.1	1841.3	1841.3	1859.3	1873.4	1887.6	1888.9	1887.6
42.5°	1610.2	1621.8	1633.3	1646.2	1643.6	1659.0	1666.7	1673.1	1683.4	1683.4	1686.0
45°	1445.9	1454.8	1465.1	1467.7	1478.0	1478.0	1484.4	1486.9	1492.1	1488.2	1483.1
47.5°	1293.0	1296.9	1298.2	1309.7	1312.3	1303.3	1311.0	1312.3	1311.0	1311.0	1308.5
50°	1148.0	1150.5	1149.2	1145.4	1146.7	1150.5	1146.7	1141.5	1144.1	1144.1	1146.7
52.5°	1006.7	1001.6	999.0	999.0	993.9	993.9	987.4	984.9	983.6	978.5	984.9
55°	877.0	869.3	857.8	855.2	851.3	850.0	842.3	835.9	833.4	834.6	833.4
57.5°	752.5	740.9	733.2	730.6	726.8	719.1	710.1	703.7	702.4	699.8	699.8
60°	639.5	626.6	615.1	603.5	604.8	599.7	590.7	586.8	583.0	577.8	581.7
62.5°	536.7	522.6	509.8	498.2	490.5	486.7	480.2	473.8	470.0	466.1	471.3
65°	435.3	423.7	409.6	398.1	394.2	390.4	383.9	373.7	372.4	372.4	374.9
67.5°	344.1	331.3	318.4	310.7	305.6	300.5	297.9	292.8	288.9	286.3	287.6
70°	264.5	251.7	241.4	233.7	229.8	228.6	219.6	218.3	217.0	215.7	214.4
72.5°	192.6	182.3	173.3	168.2	163.1	159.2	156.7	152.8	151.5	151.5	151.5
75°	132.3	124.6	114.3	107.9	105.3	101.4	97.6	95.0	92.5	93.7	93.7
77.5°	79.6	71.9	65.5	60.4	59.1	55.2	51.4	48.8	44.9	44.9	46.2
80°	43.7	37.2	32.1	28.2	25.7	24.4	20.5	19.3	16.7	15.4	15.4
82.5°	19.3	15.4	12.8	11.6	10.3	9.0	7.7	6.4	6.4	5.1	6.4
85°	6.4	5.1	3.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
87.5°	1.3	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°	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6
2.5°	3431.0	3431.0	3429.7	3429.7	3429.7	3427.2	3427.2	3425.9	3424.6	3423.3	3420.7
5°	3422.0	3420.7	3418.2	3416.9	3415.6	3411.8	3407.9	3405.3	3401.5	3396.3	3393.8
7.5°	3409.2	3405.3	3400.2	3397.6	3393.8	3384.8	3378.4	3371.9	3365.5	3356.5	3346.3
10°	3387.4	3379.6	3371.9	3366.8	3360.4	3348.8	3336.0	3325.7	3311.6	3298.8	3284.6
12.5°	3356.5	3347.5	3332.1	3324.4	3316.7	3300.0	3283.3	3261.5	3242.3	3224.3	3207.6
15°	3318.0	3301.3	3283.3	3273.1	3261.5	3234.5	3208.9	3185.8	3160.1	3138.2	3111.3
17.5°	3261.5	3237.1	3211.4	3199.9	3184.5	3153.7	3122.8	3090.7	3061.2	3034.2	3000.9
20°	3176.8	3149.8	3116.4	3098.4	3085.6	3044.5	3015.0	2979.0	2948.2	2914.8	2877.6
22.5°	3077.9	3040.7	3003.4	2977.7	2963.6	2922.5	2882.7	2850.6	2817.2	2778.7	2751.7
25°	2966.2	2920.0	2875.0	2849.3	2827.5	2783.8	2745.3	2711.9	2670.8	2637.5	2610.5
27.5°	2840.3	2787.7	2735.1	2709.4	2688.8	2641.3	2600.2	2565.6	2525.7	2496.2	2468.0
30°	2690.1	2642.6	2592.5	2572.0	2547.6	2498.8	2451.3	2420.5	2376.8	2346.0	2315.2
32.5°	2502.6	2471.8	2432.0	2403.8	2390.9	2346.0	2306.2	2268.9	2231.7	2207.3	2176.5
35°	2297.2	2270.2	2236.8	2221.4	2204.7	2176.5	2144.4	2112.3	2082.7	2059.6	2031.4
37.5°	2089.2	2062.2	2041.7	2025.0	2014.7	1989.0	1969.7	1945.4	1924.8	1903.0	1887.6
40°	1873.4	1865.7	1843.9	1836.2	1833.6	1805.4	1788.7	1769.4	1756.6	1743.8	1734.8
42.5°	1682.1	1669.3	1652.6	1653.9	1646.2	1630.8	1619.2	1606.4	1597.4	1591.0	1582.0
45°	1493.4	1483.1	1475.4	1481.8	1469.0	1463.8	1454.8	1453.6	1447.1	1435.6	1431.7
47.5°	1313.6	1312.3	1313.6	1309.7	1307.2	1304.6	1305.9	1299.5	1293.0	1289.2	1284.1
50°	1149.2	1150.5	1153.1	1156.9	1148.0	1151.8	1150.5	1149.2	1149.2	1145.4	1148.0
52.5°	990.0	991.3	993.9	997.7	999.0	999.0	1002.9	1005.4	1010.6	1017.0	1017.0
55°	839.8	848.8	853.9	860.3	856.5	864.2	868.0	879.6	883.4	883.4	888.6
57.5°	706.2	715.2	719.1	726.8	729.3	735.8	746.0	752.5	761.4	769.2	776.9
60°	584.2	588.1	598.4	609.9	607.4	622.8	630.5	640.7	652.3	657.4	667.7
62.5°	475.1	480.2	487.9	491.8	500.8	508.5	526.5	536.7	547.0	559.9	570.1
65°	377.5	382.7	390.4	398.1	401.9	413.5	422.5	440.4	449.4	463.5	475.1
67.5°	288.9	296.6	303.0	308.2	310.7	322.3	336.4	344.1	360.8	374.9	383.9
70°	215.7	222.1	229.8	228.6	233.7	242.7	253.0	264.5	277.4	290.2	300.5
72.5°	150.2	156.7	161.8	163.1	168.2	174.6	182.3	191.3	201.6	214.4	228.6
75°	95.0	96.3	101.4	104.0	106.6	114.3	120.7	129.7	138.7	149.0	157.9
77.5°	47.5	51.4	53.9	56.5	57.8	64.2	70.6	78.3	86.0	96.3	105.3
80°	18.0	19.3	23.1	24.4	27.0	30.8	36.0	39.8	46.2	53.9	59.1
82.5°	6.4	7.7	9.0	9.0	10.3	12.8	14.1	18.0	21.8	24.4	27.0
85°	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.1	6.4	7.7	7.7
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: P879491

CATALOG NUMBER: LD4C75D010 EU4759030 4LBLDWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6	3433.6
2.5°	3419.5	3419.5	3418.2	3416.9	3416.9	3416.9	3415.6	3415.6
5°	3388.6	3384.8	3383.5	3380.9	3379.6	3378.4	3374.5	3374.5
7.5°	3338.6	3333.4	3329.6	3325.7	3320.6	3316.7	3316.7	3311.6
10°	3271.8	3261.5	3256.4	3251.2	3244.8	3237.1	3234.5	3230.7
12.5°	3190.9	3170.3	3165.2	3156.2	3145.9	3140.8	3131.8	3131.8
15°	3090.7	3068.9	3057.3	3052.2	3039.4	3030.4	3026.5	3016.3
17.5°	2973.9	2957.2	2939.2	2931.5	2917.4	2905.8	2900.7	2899.4
20°	2855.8	2828.8	2817.2	2805.7	2789.0	2778.7	2771.0	2760.7
22.5°	2719.6	2695.2	2678.6	2670.8	2656.7	2638.7	2625.9	2625.9
25°	2575.8	2554.0	2545.0	2528.3	2511.6	2505.2	2489.8	2487.2
27.5°	2438.4	2416.6	2398.6	2389.6	2370.4	2361.4	2348.5	2343.4
30°	2295.9	2270.2	2257.4	2256.1	2233.0	2224.0	2213.7	2208.6
32.5°	2153.4	2131.5	2118.7	2111.0	2100.7	2085.3	2076.3	2071.2
35°	2012.1	1998.0	1986.4	1977.5	1960.8	1953.1	1945.4	1938.9
37.5°	1864.5	1851.6	1846.5	1838.8	1831.1	1816.9	1814.4	1809.2
40°	1721.9	1705.2	1705.2	1700.1	1692.4	1691.1	1687.3	1687.3
42.5°	1573.0	1565.3	1564.0	1565.3	1560.1	1557.6	1553.7	1562.7
45°	1425.3	1429.2	1422.7	1424.0	1421.5	1426.6	1426.6	1431.7
47.5°	1289.2	1284.1	1286.6	1289.2	1293.0	1293.0	1291.8	1290.5
50°	1144.1	1149.2	1154.4	1148.0	1150.5	1151.8	1145.4	1146.7
52.5°	1019.5	1020.8	1024.7	1020.8	1024.7	1023.4	1026.0	1020.8
55°	898.8	898.8	904.0	905.3	906.5	910.4	911.7	915.5
57.5°	782.0	788.4	794.8	793.5	798.7	803.8	800.0	803.8
60°	680.6	685.7	692.1	694.7	698.5	701.1	701.1	703.7
62.5°	577.8	588.1	593.2	598.4	598.4	603.5	608.6	609.9
65°	485.4	496.9	500.8	504.6	507.2	512.3	518.8	517.5
67.5°	398.1	405.8	410.9	413.5	421.2	423.7	428.9	434.0
70°	312.0	322.3	326.2	331.3	337.7	342.8	348.0	350.5
72.5°	238.8	246.5	249.1	254.2	260.7	265.8	268.4	272.2
75°	166.9	179.8	181.1	184.9	190.0	196.5	200.3	199.0
77.5°	110.4	119.4	120.7	125.8	131.0	136.1	137.4	138.7
80°	65.5	70.6	71.9	74.5	78.3	80.9	83.5	86.0
82.5°	30.8	33.4	36.0	36.0	38.5	41.1	41.1	42.4
85°	10.3	10.3	11.6	11.6	12.8	12.8	14.1	12.8
87.5°	1.3	1.3	0.0	1.3	1.3	1.3	1.3	1.3
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)