

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: P879495

Luminaire Tested: **LD4C75D010 EU4759040 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: P879495  
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 EU4759040 4LBLDWWLI  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

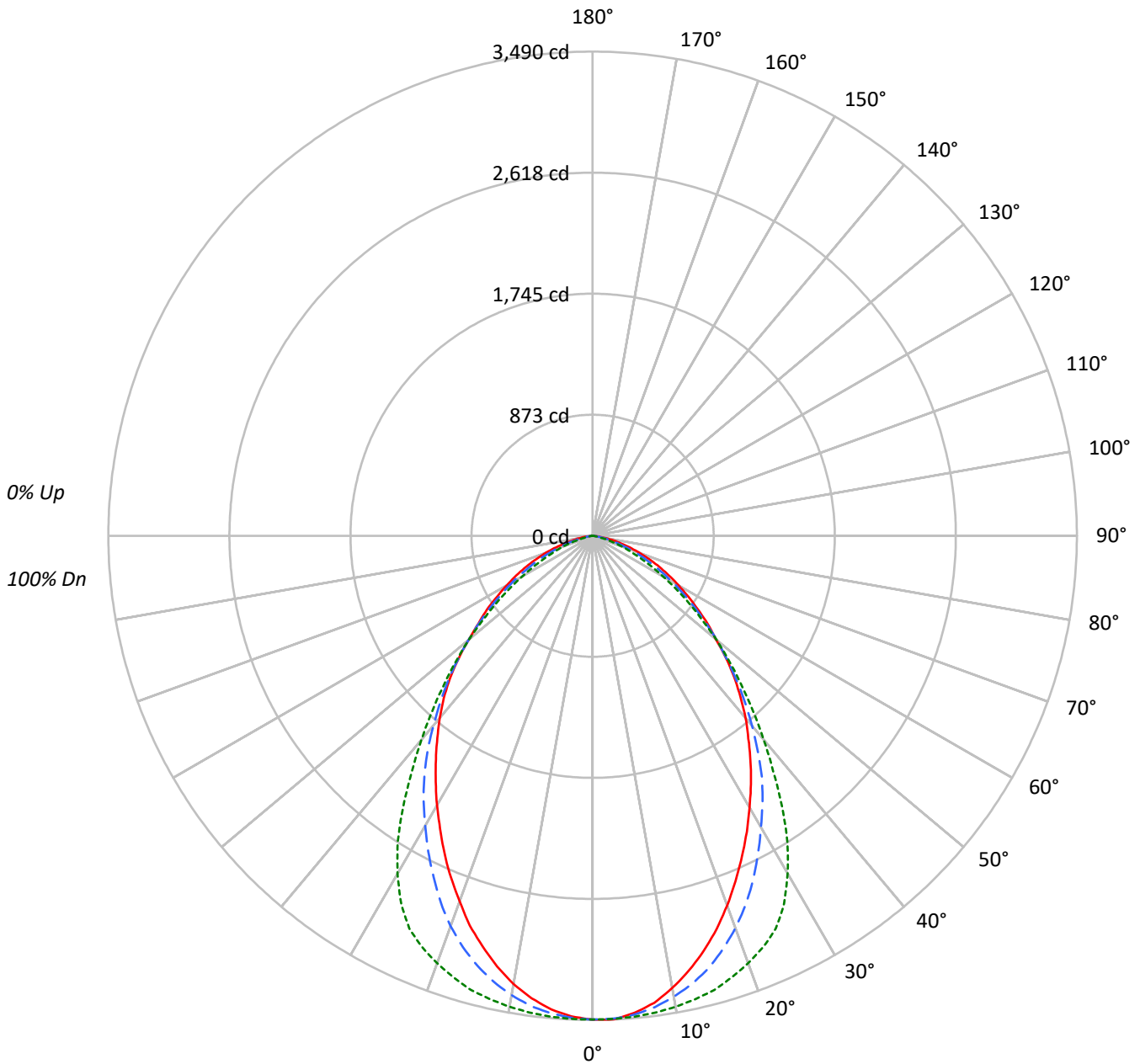
Lumens per Lamp: N/A  
Luminaire Lumens: 6404.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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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### 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			
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°	428378	428378	428378
5°	425833	429052	422627
10°	412868	430109	409288
15°	393899	431050	389587
20°	370629	428598	366537
25°	345215	423524	342395
30°	320772	398837	318175
35°	297463	356719	295319
40°	275009	307629	274801
45°	250569	262592	252619
50°	221324	222069	222566
55°	198317	181546	199152
60°	175263	144181	175582
65°	154272	109941	152761
70°	127875	78701	127875
75°	99633	45189	95931
80°	64593	11037	61834
85°	23963	3665	18325



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.3	5.1
10°-20°	905.6	14.1
20°-30°	1265.9	19.8
30°-40°	1335.4	20.9
40°-50°	1136.0	17.7
50°-60°	801.6	12.5
60°-70°	454.4	7.1
70°-80°	162.1	2.5
80°-90°	15.5	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°	2498.9	39.0
0°-40°	3834.3	59.9
0°-60°	5771.9	90.1
0°-90°	6404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6404.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3487	3487	3487	3487	3487	
5°	3453	3465	3479	3454	3427	325
15°	3097	3227	3389	3209	3063	868
25°	2547	2737	3124	2712	2526	1172
35°	1983	2127	2378	2115	1969	1240
45°	1442	1463	1511	1470	1454	1109
55°	926	895	848	897	930	832
65°	531	455	378	456	526	526
75°	210	143	95	141	202	227
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°	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9
2.5°	3489.5	3483.0	3483.0	3483.0	3483.0	3483.0	3483.0	3483.0	3483.0	3484.3	3484.3
5°	3453.0	3450.4	3449.1	3449.1	3449.1	3449.1	3450.4	3455.6	3458.3	3462.2	3464.8
7.5°	3395.7	3390.4	3393.1	3393.1	3395.7	3398.3	3402.2	3407.4	3415.2	3420.4	3427.0
10°	3309.6	3304.4	3310.9	3313.5	3321.3	3325.2	3331.8	3339.6	3355.2	3363.1	3373.5
12.5°	3209.2	3206.6	3209.2	3219.6	3227.4	3232.7	3240.5	3257.4	3273.1	3290.0	3308.3
15°	3097.0	3090.5	3094.4	3107.5	3120.5	3129.6	3136.2	3158.3	3179.2	3205.3	3227.4
17.5°	2971.9	2962.7	2973.2	2983.6	3000.5	3008.4	3017.5	3042.3	3071.0	3099.6	3124.4
20°	2834.9	2832.3	2838.8	2853.2	2870.1	2880.6	2888.4	2915.8	2940.6	2979.7	3008.4
22.5°	2692.8	2695.4	2700.6	2716.3	2728.0	2742.3	2754.1	2778.9	2807.5	2844.1	2880.6
25°	2546.7	2550.7	2559.8	2570.2	2589.8	2597.6	2611.9	2638.0	2662.8	2696.7	2737.1
27.5°	2405.9	2407.2	2417.6	2422.9	2441.1	2458.1	2464.6	2492.0	2520.7	2546.7	2582.0
30°	2261.2	2265.1	2271.6	2285.9	2304.2	2310.7	2318.5	2343.3	2365.5	2398.1	2425.5
32.5°	2122.9	2120.3	2128.2	2136.0	2156.8	2168.6	2172.5	2201.2	2220.7	2253.3	2279.4
35°	1983.4	1976.9	1988.6	1996.4	2014.7	2025.1	2030.4	2052.5	2070.8	2098.2	2126.9
37.5°	1843.9	1849.1	1854.3	1860.8	1870.0	1872.6	1888.2	1893.4	1916.9	1937.8	1953.4
40°	1714.8	1712.2	1709.6	1716.1	1727.8	1733.0	1734.3	1748.7	1753.9	1774.8	1786.5
42.5°	1576.6	1577.9	1576.6	1577.9	1584.4	1584.4	1588.3	1597.4	1601.3	1607.9	1622.2
45°	1442.2	1442.2	1438.3	1439.6	1440.9	1439.6	1440.9	1444.9	1452.7	1452.7	1463.1
47.5°	1302.7	1300.1	1305.3	1301.4	1298.8	1297.5	1301.4	1297.5	1305.3	1305.3	1307.9
50°	1158.0	1158.0	1164.5	1163.2	1165.8	1160.6	1161.9	1161.9	1163.2	1161.9	1167.1
52.5°	1045.8	1043.2	1040.6	1034.1	1036.7	1031.5	1031.5	1032.8	1028.9	1027.6	1021.0
55°	925.9	928.5	924.5	921.9	921.9	916.7	915.4	907.6	902.4	898.5	894.6
57.5°	817.6	820.2	818.9	812.4	804.6	805.9	803.3	795.5	783.7	775.9	769.4
60°	713.3	715.9	713.3	706.8	704.2	699.0	697.6	687.2	678.1	667.7	659.8
62.5°	619.4	619.4	618.1	609.0	602.5	603.8	597.2	589.4	577.7	563.3	551.6
65°	530.7	529.4	522.9	519.0	513.8	507.3	503.4	491.6	482.5	470.7	455.1
67.5°	442.1	438.1	435.5	431.6	419.9	418.6	413.4	402.9	389.9	380.8	367.7
70°	356.0	354.7	349.5	349.5	340.3	336.4	328.6	319.5	307.7	294.7	284.3
72.5°	281.7	279.1	273.8	268.6	260.8	258.2	251.7	242.5	232.1	219.1	206.0
75°	209.9	207.3	206.0	199.5	193.0	186.5	183.9	174.7	164.3	155.2	143.4
77.5°	147.4	144.7	140.8	136.9	133.0	129.1	125.2	117.4	108.2	100.4	90.0
80°	91.3	88.7	86.1	84.8	80.8	79.5	74.3	70.4	62.6	57.4	50.9
82.5°	46.9	46.9	44.3	43.0	40.4	39.1	37.8	33.9	30.0	26.1	22.2
85°	17.0	17.0	15.6	14.3	14.3	13.0	13.0	11.7	9.1	9.1	6.5
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°	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9
2.5°	3485.6	3484.3	3485.6	3485.6	3486.9	3486.9	3486.9	3485.6	3486.9	3485.6	3485.6
5°	3464.8	3468.7	3471.3	3473.9	3475.2	3476.5	3476.5	3477.8	3479.1	3479.1	3477.8
7.5°	3432.2	3440.0	3447.8	3453.0	3455.6	3458.3	3462.2	3464.8	3467.4	3466.1	3464.8
10°	3389.1	3402.2	3412.6	3423.0	3428.3	3432.2	3438.7	3443.9	3446.5	3447.8	3443.9
12.5°	3327.8	3346.1	3363.1	3380.0	3387.8	3393.1	3406.1	3415.2	3420.4	3420.4	3416.5
15°	3250.9	3277.0	3301.8	3323.9	3337.0	3344.8	3364.4	3377.4	3385.2	3389.1	3382.6
17.5°	3158.3	3188.3	3218.3	3247.0	3260.0	3271.8	3299.2	3317.4	3334.4	3337.0	3329.2
20°	3039.7	3077.5	3111.4	3146.6	3160.9	3179.2	3210.5	3240.5	3266.6	3278.3	3256.1
22.5°	2906.7	2948.4	2979.7	3022.7	3042.3	3061.8	3102.3	3140.1	3185.7	3210.5	3171.4
25°	2768.4	2803.6	2841.5	2883.2	2910.6	2931.4	2978.4	3026.6	3087.9	3124.4	3069.7
27.5°	2619.8	2651.1	2696.7	2742.3	2763.2	2789.3	2845.4	2897.5	2956.2	2988.8	2948.4
30°	2465.9	2505.0	2548.0	2589.8	2619.8	2644.5	2690.2	2734.5	2784.1	2811.5	2781.5
32.5°	2313.3	2351.1	2387.7	2433.3	2450.2	2472.4	2512.8	2550.7	2588.5	2613.2	2578.0
35°	2152.9	2186.8	2220.7	2252.0	2259.9	2285.9	2318.5	2340.7	2359.0	2378.5	2355.1
37.5°	1978.2	2004.3	2021.2	2055.1	2068.2	2072.1	2098.2	2113.8	2133.4	2137.3	2136.0
40°	1800.8	1824.3	1838.7	1859.5	1870.0	1870.0	1888.2	1902.6	1916.9	1918.2	1916.9
42.5°	1635.2	1647.0	1658.7	1671.7	1669.1	1684.8	1692.6	1699.1	1709.6	1709.6	1712.2
45°	1468.3	1477.5	1487.9	1490.5	1500.9	1500.9	1507.4	1510.1	1515.3	1511.4	1506.1
47.5°	1313.1	1317.1	1318.4	1330.1	1332.7	1323.6	1331.4	1332.7	1331.4	1331.4	1328.8
50°	1165.8	1168.4	1167.1	1163.2	1164.5	1168.4	1164.5	1159.3	1161.9	1161.9	1164.5
52.5°	1022.3	1017.1	1014.5	1014.5	1009.3	1009.3	1002.8	1000.2	998.9	993.7	1000.2
55°	890.6	882.8	871.1	868.5	864.6	863.3	855.4	848.9	846.3	847.6	846.3
57.5°	764.2	752.4	744.6	742.0	738.1	730.2	721.1	714.6	713.3	710.7	710.7
60°	649.4	636.4	624.6	612.9	614.2	609.0	599.8	595.9	592.0	586.8	590.7
62.5°	545.1	530.7	517.7	506.0	498.1	494.2	487.7	481.2	477.3	473.4	478.6
65°	442.1	430.3	416.0	404.2	400.3	396.4	389.9	379.5	378.2	378.2	380.8
67.5°	349.5	336.4	323.4	315.6	310.4	305.1	302.5	297.3	293.4	290.8	292.1
70°	268.6	255.6	245.2	237.3	233.4	232.1	223.0	221.7	220.4	219.1	217.8
72.5°	195.6	185.2	176.0	170.8	165.6	161.7	159.1	155.2	153.9	153.9	153.9
75°	134.3	126.5	116.1	109.5	106.9	103.0	99.1	96.5	93.9	95.2	95.2
77.5°	80.8	73.0	66.5	61.3	60.0	56.1	52.2	49.6	45.6	45.6	46.9
80°	44.3	37.8	32.6	28.7	26.1	24.8	20.9	19.6	17.0	15.6	15.6
82.5°	19.6	15.6	13.0	11.7	10.4	9.1	7.8	6.5	6.5	5.2	6.5
85°	6.5	5.2	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°	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9
2.5°	3484.3	3484.3	3483.0	3483.0	3483.0	3480.4	3480.4	3479.1	3477.8	3476.5	3473.9
5°	3475.2	3473.9	3471.3	3470.0	3468.7	3464.8	3460.9	3458.3	3454.3	3449.1	3446.5
7.5°	3462.2	3458.3	3453.0	3450.4	3446.5	3437.4	3430.9	3424.3	3417.8	3408.7	3398.3
10°	3440.0	3432.2	3424.3	3419.1	3412.6	3400.9	3387.8	3377.4	3363.1	3350.0	3335.7
12.5°	3408.7	3399.6	3383.9	3376.1	3368.3	3351.3	3334.4	3312.2	3292.6	3274.4	3257.4
15°	3369.6	3352.6	3334.4	3323.9	3312.2	3284.8	3258.7	3235.3	3209.2	3187.0	3159.6
17.5°	3312.2	3287.4	3261.3	3249.6	3234.0	3202.7	3171.4	3138.8	3108.8	3081.4	3047.5
20°	3226.1	3198.8	3164.8	3146.6	3133.6	3091.8	3061.8	3025.3	2994.0	2960.1	2922.3
22.5°	3125.7	3087.9	3050.1	3024.0	3009.7	2967.9	2927.5	2894.9	2861.0	2821.9	2794.5
25°	3012.3	2965.3	2919.7	2893.6	2871.4	2827.1	2788.0	2754.1	2712.4	2678.4	2651.1
27.5°	2884.5	2831.0	2777.6	2751.5	2730.6	2682.4	2640.6	2605.4	2565.0	2535.0	2506.3
30°	2731.9	2683.7	2632.8	2611.9	2587.2	2537.6	2489.4	2458.1	2413.7	2382.4	2351.1
32.5°	2541.5	2510.2	2469.8	2441.1	2428.1	2382.4	2342.0	2304.2	2266.4	2241.6	2210.3
35°	2332.9	2305.5	2271.6	2255.9	2239.0	2210.3	2177.7	2145.1	2115.1	2091.6	2063.0
37.5°	2121.6	2094.3	2073.4	2056.4	2046.0	2019.9	2000.4	1975.6	1954.7	1932.6	1916.9
40°	1902.6	1894.7	1872.6	1864.7	1862.1	1833.4	1816.5	1796.9	1783.9	1770.9	1761.7
42.5°	1708.3	1695.2	1678.3	1679.6	1671.7	1656.1	1644.4	1631.3	1622.2	1615.7	1606.5
45°	1516.6	1506.1	1498.3	1504.8	1491.8	1486.6	1477.5	1476.1	1469.6	1457.9	1454.0
47.5°	1334.0	1332.7	1334.0	1330.1	1327.5	1324.9	1326.2	1319.7	1313.1	1309.2	1304.0
50°	1167.1	1168.4	1171.0	1174.9	1165.8	1169.7	1168.4	1167.1	1167.1	1163.2	1165.8
52.5°	1005.4	1006.7	1009.3	1013.2	1014.5	1014.5	1018.4	1021.0	1026.3	1032.8	1032.8
55°	852.8	862.0	867.2	873.7	869.8	877.6	881.5	893.3	897.2	897.2	902.4
57.5°	717.2	726.3	730.2	738.1	740.7	747.2	757.6	764.2	773.3	781.1	788.9
60°	593.3	597.2	607.7	619.4	616.8	632.4	640.3	650.7	662.4	667.7	678.1
62.5°	482.5	487.7	495.5	499.4	508.6	516.4	534.6	545.1	555.5	568.6	579.0
65°	383.4	388.6	396.4	404.2	408.2	419.9	429.0	447.3	456.4	470.7	482.5
67.5°	293.4	301.2	307.7	313.0	315.6	327.3	341.7	349.5	366.4	380.8	389.9
70°	219.1	225.6	233.4	232.1	237.3	246.5	256.9	268.6	281.7	294.7	305.1
72.5°	152.6	159.1	164.3	165.6	170.8	177.3	185.2	194.3	204.7	217.8	232.1
75°	96.5	97.8	103.0	105.6	108.2	116.1	122.6	131.7	140.8	151.3	160.4
77.5°	48.2	52.2	54.8	57.4	58.7	65.2	71.7	79.5	87.4	97.8	106.9
80°	18.3	19.6	23.5	24.8	27.4	31.3	36.5	40.4	46.9	54.8	60.0
82.5°	6.5	7.8	9.1	9.1	10.4	13.0	14.3	18.3	22.2	24.8	27.4
85°	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.2	6.5	7.8	7.8
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: P879495

CATALOG NUMBER: LD4C75D010 EU4759040 4LBLDWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9	3486.9
2.5°	3472.6	3472.6	3471.3	3470.0	3470.0	3470.0	3468.7	3468.7
5°	3441.3	3437.4	3436.1	3433.5	3432.2	3430.9	3427.0	3427.0
7.5°	3390.4	3385.2	3381.3	3377.4	3372.2	3368.3	3368.3	3363.1
10°	3322.6	3312.2	3307.0	3301.8	3295.2	3287.4	3284.8	3280.9
12.5°	3240.5	3219.6	3214.4	3205.3	3194.8	3189.6	3180.5	3180.5
15°	3138.8	3116.6	3104.9	3099.6	3086.6	3077.5	3073.6	3063.1
17.5°	3020.1	3003.1	2984.9	2977.1	2962.7	2951.0	2945.8	2944.5
20°	2900.1	2872.7	2861.0	2849.3	2832.3	2821.9	2814.1	2803.6
22.5°	2761.9	2737.1	2720.2	2712.4	2698.0	2679.8	2666.7	2666.7
25°	2615.9	2593.7	2584.6	2567.6	2550.7	2544.1	2528.5	2525.9
27.5°	2476.3	2454.2	2435.9	2426.8	2407.2	2398.1	2385.0	2379.8
30°	2331.6	2305.5	2292.5	2291.2	2267.7	2258.6	2248.1	2242.9
32.5°	2186.8	2164.7	2151.6	2143.8	2133.4	2117.7	2108.6	2103.4
35°	2043.4	2029.0	2017.3	2008.2	1991.2	1983.4	1975.6	1969.1
37.5°	1893.4	1880.4	1875.2	1867.4	1859.5	1845.2	1842.6	1837.4
40°	1748.7	1731.7	1731.7	1726.5	1718.7	1717.4	1713.5	1713.5
42.5°	1597.4	1589.6	1588.3	1589.6	1584.4	1581.8	1577.9	1587.0
45°	1447.5	1451.4	1444.9	1446.2	1443.5	1448.8	1448.8	1454.0
47.5°	1309.2	1304.0	1306.6	1309.2	1313.1	1313.1	1311.8	1310.5
50°	1161.9	1167.1	1172.3	1165.8	1168.4	1169.7	1163.2	1164.5
52.5°	1035.4	1036.7	1040.6	1036.7	1040.6	1039.3	1041.9	1036.7
55°	912.8	912.8	918.0	919.3	920.6	924.5	925.9	929.8
57.5°	794.1	800.7	807.2	805.9	811.1	816.3	812.4	816.3
60°	691.1	696.3	702.9	705.5	709.4	712.0	712.0	714.6
62.5°	586.8	597.2	602.5	607.7	607.7	612.9	618.1	619.4
65°	492.9	504.7	508.6	512.5	515.1	520.3	526.8	525.5
67.5°	404.2	412.1	417.3	419.9	427.7	430.3	435.5	440.8
70°	316.9	327.3	331.2	336.4	343.0	348.2	353.4	356.0
72.5°	242.5	250.4	253.0	258.2	264.7	269.9	272.5	276.5
75°	169.5	182.6	183.9	187.8	193.0	199.5	203.4	202.1
77.5°	112.1	121.3	122.6	127.8	133.0	138.2	139.5	140.8
80°	66.5	71.7	73.0	75.6	79.5	82.2	84.8	87.4
82.5°	31.3	33.9	36.5	36.5	39.1	41.7	41.7	43.0
85°	10.4	10.4	11.7	11.7	13.0	13.0	14.3	13.0
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)