

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: P879489

Luminaire Tested: **LD4C75D010 EU4759027 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: P879489
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 EU4759027 4LBLDWWLI
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

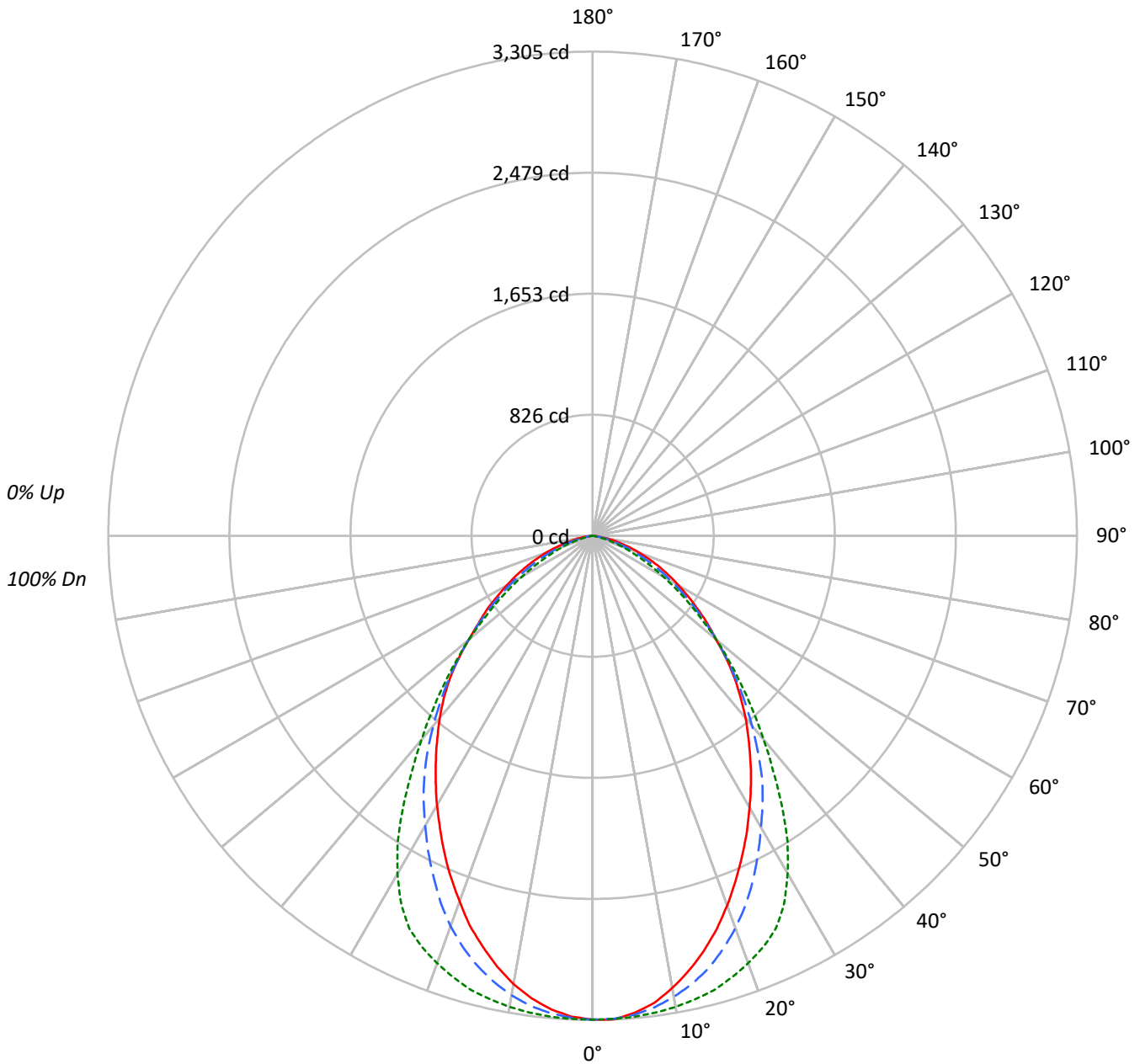
Lumens per Lamp: N/A
Luminaire Lumens: 6065.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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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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°	405711	405711	405711
5°	403290	406336	400244
10°	391012	407342	387619
15°	373053	408233	368970
20°	351018	405915	347135
25°	326942	401104	324272
30°	303791	377714	301337
35°	281716	337837	279676
40°	260447	291351	260255
45°	237313	248693	239241
50°	209608	210315	210774
55°	187800	171929	188593
60°	165975	136539	166294
65°	146104	104098	144679
70°	121122	74534	121122
75°	94364	42815	90852
80°	61127	10471	58509
85°	22694	3524	17338



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.0	5.1
10°-20°	857.7	14.1
20°-30°	1198.9	19.8
30°-40°	1264.7	20.9
40°-50°	1075.9	17.7
50°-60°	759.2	12.5
60°-70°	430.3	7.1
70°-80°	153.5	2.5
80°-90°	14.7	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°	2366.6	39.0
0°-40°	3631.3	59.9
0°-60°	5466.4	90.1
0°-90°	6065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6065.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3302	3302	3302	3302	3302	
5°	3270	3281	3295	3272	3246	308
15°	2933	3057	3210	3039	2901	822
25°	2412	2592	2959	2569	2392	1110
35°	1878	2014	2253	2003	1865	1174
45°	1366	1386	1431	1392	1377	1050
55°	877	847	803	850	880	788
65°	503	431	358	432	498	498
75°	199	136	90	133	191	215
85°	16	6	2	6	12	29
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°	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4
2.5°	3304.8	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3298.7	3299.9	3299.9
5°	3270.2	3267.8	3266.5	3266.5	3266.5	3266.5	3267.8	3272.7	3275.2	3278.9	3281.4
7.5°	3215.9	3211.0	3213.4	3213.4	3215.9	3218.4	3222.1	3227.0	3234.4	3239.4	3245.5
10°	3134.4	3129.5	3135.6	3138.1	3145.5	3149.2	3155.4	3162.8	3177.6	3185.0	3194.9
12.5°	3039.3	3036.8	3039.3	3049.2	3056.6	3061.5	3068.9	3085.0	3099.8	3115.9	3133.2
15°	2933.1	2926.9	2930.6	2943.0	2955.3	2964.0	2970.1	2991.1	3010.9	3035.6	3056.6
17.5°	2814.5	2805.9	2815.8	2825.7	2841.7	2849.1	2857.8	2881.2	2908.4	2935.6	2959.0
20°	2684.9	2682.4	2688.6	2702.2	2718.2	2728.1	2735.5	2761.4	2784.9	2821.9	2849.1
22.5°	2550.2	2552.7	2557.7	2572.5	2583.6	2597.2	2608.3	2631.8	2658.9	2693.5	2728.1
25°	2411.9	2415.6	2424.3	2434.2	2452.7	2460.1	2473.7	2498.4	2521.8	2554.0	2592.2
27.5°	2278.6	2279.8	2289.7	2294.6	2311.9	2328.0	2334.1	2360.1	2387.2	2411.9	2445.3
30°	2141.5	2145.2	2151.3	2164.9	2182.2	2188.4	2195.8	2219.3	2240.3	2271.1	2297.1
32.5°	2010.6	2008.1	2015.5	2022.9	2042.7	2053.8	2057.5	2084.7	2103.2	2134.1	2158.8
35°	1878.4	1872.2	1883.4	1890.8	1908.1	1917.9	1922.9	1943.9	1961.2	1987.1	2014.3
37.5°	1746.3	1751.2	1756.2	1762.3	1771.0	1773.4	1788.3	1793.2	1815.4	1835.2	1850.0
40°	1624.0	1621.5	1619.1	1625.2	1636.4	1641.3	1642.5	1656.1	1661.1	1680.8	1691.9
42.5°	1493.1	1494.3	1493.1	1494.3	1500.5	1500.5	1504.2	1512.9	1516.6	1522.7	1536.3
45°	1365.9	1365.9	1362.2	1363.4	1364.7	1363.4	1364.7	1368.4	1375.8	1375.8	1385.7
47.5°	1233.8	1231.3	1236.2	1232.5	1230.0	1228.8	1232.5	1228.8	1236.2	1236.2	1238.7
50°	1096.7	1096.7	1102.8	1101.6	1104.1	1099.1	1100.4	1100.4	1101.6	1100.4	1105.3
52.5°	990.5	988.0	985.5	979.3	981.8	976.9	976.9	978.1	974.4	973.2	967.0
55°	876.8	879.3	875.6	873.1	873.1	868.2	867.0	859.6	854.6	850.9	847.2
57.5°	774.3	776.8	775.6	769.4	762.0	763.2	760.8	753.3	742.2	734.8	728.6
60°	675.5	678.0	675.5	669.4	666.9	662.0	660.7	650.8	642.2	632.3	624.9
62.5°	586.6	586.6	585.4	576.7	570.6	571.8	565.6	558.2	547.1	533.5	522.4
65°	502.6	501.4	495.2	491.5	486.6	480.4	476.7	465.6	456.9	445.8	431.0
67.5°	418.7	415.0	412.5	408.8	397.7	396.4	391.5	381.6	369.3	360.6	348.3
70°	337.2	335.9	331.0	331.0	322.3	318.6	311.2	302.6	291.5	279.1	269.2
72.5°	266.8	264.3	259.3	254.4	247.0	244.5	238.4	229.7	219.8	207.5	195.1
75°	198.8	196.4	195.1	189.0	182.8	176.6	174.1	165.5	155.6	147.0	135.8
77.5°	139.6	137.1	133.4	129.7	126.0	122.3	118.6	111.1	102.5	95.1	85.2
80°	86.4	84.0	81.5	80.3	76.6	75.3	70.4	66.7	59.3	54.3	48.2
82.5°	44.5	44.5	42.0	40.8	38.3	37.0	35.8	32.1	28.4	24.7	21.0
85°	16.1	16.1	14.8	13.6	13.6	12.3	12.3	11.1	8.6	8.6	6.2
87.5°	1.2	1.2	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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°	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4
2.5°	3301.1	3299.9	3301.1	3301.1	3302.4	3302.4	3302.4	3301.1	3302.4	3301.1	3301.1
5°	3281.4	3285.1	3287.5	3290.0	3291.2	3292.5	3292.5	3293.7	3294.9	3294.9	3293.7
7.5°	3250.5	3257.9	3265.3	3270.2	3272.7	3275.2	3278.9	3281.4	3283.8	3282.6	3281.4
10°	3209.7	3222.1	3232.0	3241.8	3246.8	3250.5	3256.7	3261.6	3264.1	3265.3	3261.6
12.5°	3151.7	3169.0	3185.0	3201.1	3208.5	3213.4	3225.8	3234.4	3239.4	3239.4	3235.7
15°	3078.8	3103.5	3127.0	3148.0	3160.3	3167.7	3186.3	3198.6	3206.0	3209.7	3203.6
17.5°	2991.1	3019.5	3047.9	3075.1	3087.5	3098.6	3124.5	3141.8	3157.9	3160.3	3152.9
20°	2878.8	2914.6	2946.7	2980.0	2993.6	3010.9	3040.5	3068.9	3093.6	3104.8	3083.8
22.5°	2752.8	2792.3	2821.9	2862.7	2881.2	2899.8	2938.0	2973.8	3017.1	3040.5	3003.5
25°	2621.9	2655.2	2691.0	2730.6	2756.5	2776.3	2820.7	2866.4	2924.5	2959.0	2907.2
27.5°	2481.1	2510.7	2554.0	2597.2	2616.9	2641.6	2694.7	2744.1	2799.7	2830.6	2792.3
30°	2335.4	2372.4	2413.2	2452.7	2481.1	2504.6	2547.8	2589.8	2636.7	2662.6	2634.2
32.5°	2190.9	2226.7	2261.3	2304.5	2320.5	2341.5	2379.8	2415.6	2451.5	2474.9	2441.6
35°	2039.0	2071.1	2103.2	2132.8	2140.2	2164.9	2195.8	2216.8	2234.1	2252.6	2230.4
37.5°	1873.5	1898.2	1914.2	1946.3	1958.7	1962.4	1987.1	2001.9	2020.4	2024.1	2022.9
40°	1705.5	1727.7	1741.3	1761.1	1771.0	1771.0	1788.3	1801.8	1815.4	1816.7	1815.4
42.5°	1548.7	1559.8	1570.9	1583.3	1580.8	1595.6	1603.0	1609.2	1619.1	1619.1	1621.5
45°	1390.6	1399.2	1409.1	1411.6	1421.5	1421.5	1427.6	1430.1	1435.1	1431.4	1426.4
47.5°	1243.6	1247.3	1248.6	1259.7	1262.2	1253.5	1260.9	1262.2	1260.9	1260.9	1258.5
50°	1104.1	1106.5	1105.3	1101.6	1102.8	1106.5	1102.8	1097.9	1100.4	1100.4	1102.8
52.5°	968.2	963.3	960.8	960.8	955.9	955.9	949.7	947.2	946.0	941.1	947.2
55°	843.5	836.1	825.0	822.5	818.8	817.6	810.2	804.0	801.5	802.7	801.5
57.5°	723.7	712.6	705.2	702.7	699.0	691.6	682.9	676.8	675.5	673.1	673.1
60°	615.0	602.7	591.6	580.4	581.7	576.7	568.1	564.4	560.7	555.7	559.4
62.5°	516.2	502.6	490.3	479.2	471.8	468.1	461.9	455.7	452.0	448.3	453.2
65°	418.7	407.5	394.0	382.8	379.1	375.4	369.3	359.4	358.1	358.1	360.6
67.5°	331.0	318.6	306.3	298.9	293.9	289.0	286.5	281.6	277.9	275.4	276.6
70°	254.4	242.1	232.2	224.8	221.1	219.8	211.2	209.9	208.7	207.5	206.2
72.5°	185.2	175.4	166.7	161.8	156.8	153.1	150.7	147.0	145.7	145.7	145.7
75°	127.2	119.8	109.9	103.7	101.3	97.6	93.9	91.4	88.9	90.2	90.2
77.5°	76.6	69.2	63.0	58.0	56.8	53.1	49.4	46.9	43.2	43.2	44.5
80°	42.0	35.8	30.9	27.2	24.7	23.5	19.8	18.5	16.1	14.8	14.8
82.5°	18.5	14.8	12.3	11.1	9.9	8.6	7.4	6.2	6.2	4.9	6.2
85°	6.2	4.9	3.7	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
87.5°	1.2	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°	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4
2.5°	3299.9	3299.9	3298.7	3298.7	3298.7	3296.2	3296.2	3294.9	3293.7	3292.5	3290.0
5°	3291.2	3290.0	3287.5	3286.3	3285.1	3281.4	3277.7	3275.2	3271.5	3266.5	3264.1
7.5°	3278.9	3275.2	3270.2	3267.8	3264.1	3255.4	3249.3	3243.1	3236.9	3228.3	3218.4
10°	3257.9	3250.5	3243.1	3238.1	3232.0	3220.8	3208.5	3198.6	3185.0	3172.7	3159.1
12.5°	3228.3	3219.6	3204.8	3197.4	3190.0	3173.9	3157.9	3136.9	3118.3	3101.1	3085.0
15°	3191.2	3175.2	3157.9	3148.0	3136.9	3110.9	3086.2	3064.0	3039.3	3018.3	2992.4
17.5°	3136.9	3113.4	3088.7	3077.6	3062.8	3033.1	3003.5	2972.6	2944.2	2918.3	2886.2
20°	3055.4	3029.4	2997.3	2980.0	2967.7	2928.2	2899.8	2865.2	2835.5	2803.4	2767.6
22.5°	2960.3	2924.5	2888.6	2863.9	2850.4	2810.8	2772.5	2741.7	2709.6	2672.5	2646.6
25°	2852.8	2808.4	2765.1	2740.4	2719.4	2677.5	2640.4	2608.3	2568.8	2536.7	2510.7
27.5°	2731.8	2681.2	2630.5	2605.8	2586.1	2540.4	2500.8	2467.5	2429.2	2400.8	2373.6
30°	2587.3	2541.6	2493.4	2473.7	2450.2	2403.3	2357.6	2328.0	2286.0	2256.3	2226.7
32.5°	2407.0	2377.4	2339.1	2311.9	2299.5	2256.3	2218.0	2182.2	2146.4	2122.9	2093.3
35°	2209.4	2183.5	2151.3	2136.5	2120.5	2093.3	2062.4	2031.6	2003.1	1980.9	1953.8
37.5°	2009.3	1983.4	1963.6	1947.6	1937.7	1913.0	1894.5	1871.0	1851.2	1830.3	1815.4
40°	1801.8	1794.4	1773.4	1766.0	1763.6	1736.4	1720.3	1701.8	1689.5	1677.1	1668.5
42.5°	1617.8	1605.5	1589.4	1590.7	1583.3	1568.4	1557.3	1545.0	1536.3	1530.1	1521.5
45°	1436.3	1426.4	1419.0	1425.2	1412.8	1407.9	1399.2	1398.0	1391.8	1380.7	1377.0
47.5°	1263.4	1262.2	1263.4	1259.7	1257.2	1254.7	1256.0	1249.8	1243.6	1239.9	1235.0
50°	1105.3	1106.5	1109.0	1112.7	1104.1	1107.8	1106.5	1105.3	1105.3	1101.6	1104.1
52.5°	952.2	953.4	955.9	959.6	960.8	960.8	964.5	967.0	971.9	978.1	978.1
55°	807.7	816.3	821.3	827.4	823.7	831.1	834.9	846.0	849.7	849.7	854.6
57.5°	679.2	687.9	691.6	699.0	701.5	707.6	717.5	723.7	732.3	739.8	747.2
60°	561.9	565.6	575.5	586.6	584.1	599.0	606.4	616.3	627.4	632.3	642.2
62.5°	456.9	461.9	469.3	473.0	481.6	489.1	506.3	516.2	526.1	538.5	548.3
65°	363.1	368.0	375.4	382.8	386.6	397.7	406.3	423.6	432.2	445.8	456.9
67.5°	277.9	285.3	291.5	296.4	298.9	310.0	323.6	331.0	347.0	360.6	369.3
70°	207.5	213.7	221.1	219.8	224.8	233.4	243.3	254.4	266.8	279.1	289.0
72.5°	144.5	150.7	155.6	156.8	161.8	168.0	175.4	184.0	193.9	206.2	219.8
75°	91.4	92.6	97.6	100.0	102.5	109.9	116.1	124.7	133.4	143.3	151.9
77.5°	45.7	49.4	51.9	54.3	55.6	61.7	67.9	75.3	82.7	92.6	101.3
80°	17.3	18.5	22.2	23.5	25.9	29.6	34.6	38.3	44.5	51.9	56.8
82.5°	6.2	7.4	8.6	8.6	9.9	12.3	13.6	17.3	21.0	23.5	25.9
85°	2.5	2.5	2.5	2.5	2.5	3.7	3.7	4.9	6.2	7.4	7.4
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: P879489

CATALOG NUMBER: LD4C75D010 EU4759027 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4	3302.4
2.5°	3288.8	3288.8	3287.5	3286.3	3286.3	3286.3	3285.1	3285.1
5°	3259.1	3255.4	3254.2	3251.7	3250.5	3249.3	3245.5	3245.5
7.5°	3211.0	3206.0	3202.3	3198.6	3193.7	3190.0	3190.0	3185.0
10°	3146.7	3136.9	3131.9	3127.0	3120.8	3113.4	3110.9	3107.2
12.5°	3068.9	3049.2	3044.2	3035.6	3025.7	3020.8	3012.1	3012.1
15°	2972.6	2951.6	2940.5	2935.6	2923.2	2914.6	2910.9	2901.0
17.5°	2860.2	2844.2	2826.9	2819.5	2805.9	2794.8	2789.8	2788.6
20°	2746.6	2720.7	2709.6	2698.4	2682.4	2672.5	2665.1	2655.2
22.5°	2615.7	2592.2	2576.2	2568.8	2555.2	2537.9	2525.5	2525.5
25°	2477.4	2456.4	2447.7	2431.7	2415.6	2409.5	2394.6	2392.2
27.5°	2345.2	2324.2	2307.0	2298.3	2279.8	2271.1	2258.8	2253.9
30°	2208.2	2183.5	2171.1	2169.9	2147.6	2139.0	2129.1	2124.2
32.5°	2071.1	2050.1	2037.7	2030.3	2020.4	2005.6	1997.0	1992.0
35°	1935.2	1921.6	1910.5	1901.9	1885.8	1878.4	1871.0	1864.8
37.5°	1793.2	1780.9	1775.9	1768.5	1761.1	1747.5	1745.0	1740.1
40°	1656.1	1640.1	1640.1	1635.1	1627.7	1626.5	1622.8	1622.8
42.5°	1512.9	1505.4	1504.2	1505.4	1500.5	1498.0	1494.3	1503.0
45°	1370.8	1374.5	1368.4	1369.6	1367.1	1372.1	1372.1	1377.0
47.5°	1239.9	1235.0	1237.5	1239.9	1243.6	1243.6	1242.4	1241.2
50°	1100.4	1105.3	1110.3	1104.1	1106.5	1107.8	1101.6	1102.8
52.5°	980.6	981.8	985.5	981.8	985.5	984.3	986.8	981.8
55°	864.5	864.5	869.4	870.7	871.9	875.6	876.8	880.5
57.5°	752.1	758.3	764.5	763.2	768.2	773.1	769.4	773.1
60°	654.5	659.5	665.7	668.1	671.8	674.3	674.3	676.8
62.5°	555.7	565.6	570.6	575.5	575.5	580.4	585.4	586.6
65°	466.8	477.9	481.6	485.4	487.8	492.8	498.9	497.7
67.5°	382.8	390.3	395.2	397.7	405.1	407.5	412.5	417.4
70°	300.1	310.0	313.7	318.6	324.8	329.7	334.7	337.2
72.5°	229.7	237.1	239.6	244.5	250.7	255.6	258.1	261.8
75°	160.5	172.9	174.1	177.8	182.8	189.0	192.7	191.4
77.5°	106.2	114.9	116.1	121.0	126.0	130.9	132.1	133.4
80°	63.0	67.9	69.2	71.6	75.3	77.8	80.3	82.7
82.5°	29.6	32.1	34.6	34.6	37.0	39.5	39.5	40.8
85°	9.9	9.9	11.1	11.1	12.3	12.3	13.6	12.3
87.5°	1.2	1.2	0.0	1.2	1.2	1.2	1.2	1.2
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)