

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: P879496

Luminaire Tested: **LD4C75D010 EU4759050 4LBDWWH**

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: P879496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C75D010 EU4759050 4LBLDWWH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

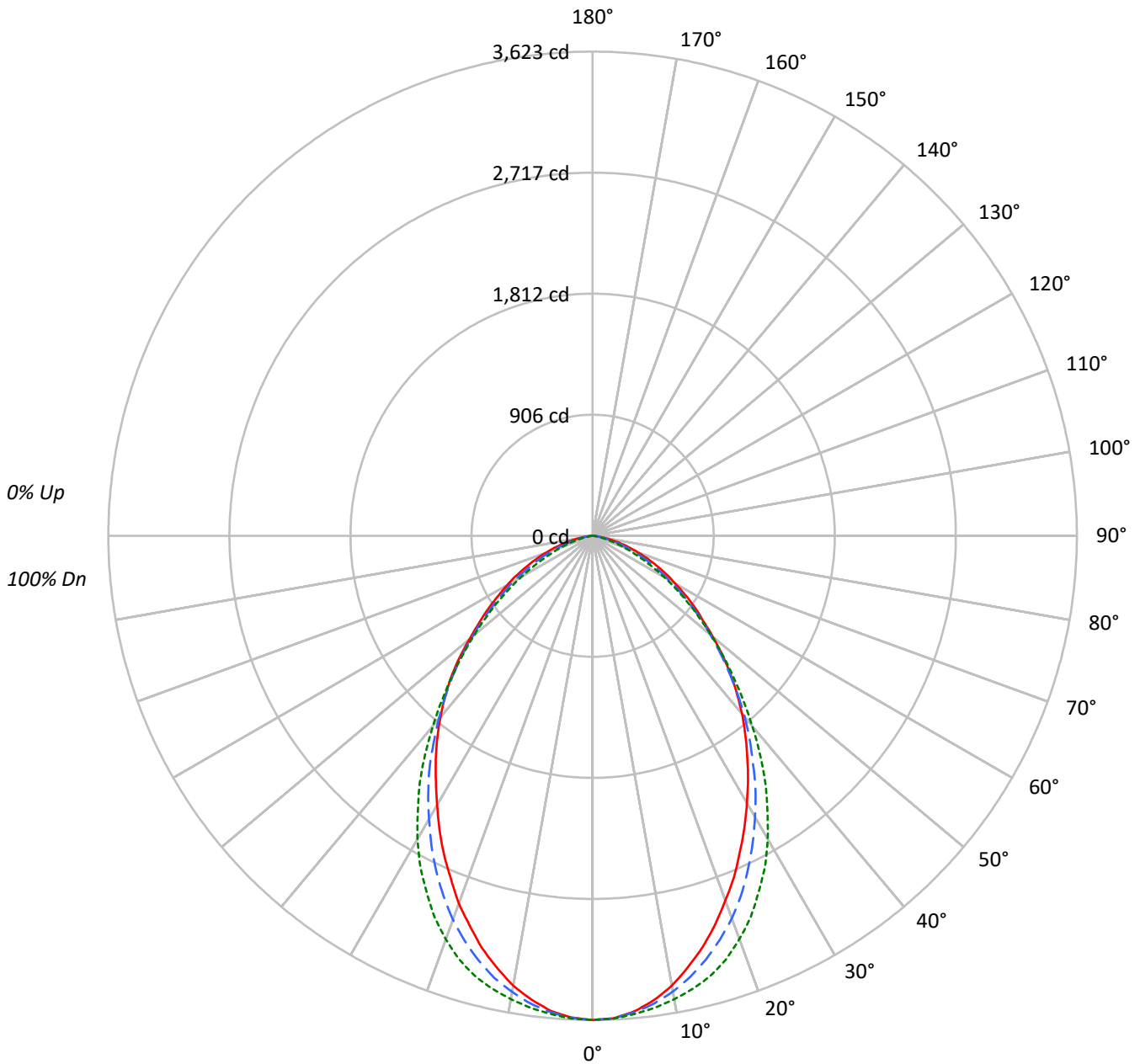
Lumens per Lamp: N/A
Luminaire Lumens: 6481.0 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P879496

CATALOG NUMBER: LD4C75D010 EU4759050 4LBLDWWH

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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59																			
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52																			
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	44	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°	445147	445147	445147
5°	440608	443074	440127
10°	426291	439240	426453
15°	405002	433607	406351
20°	379598	419956	382735
25°	353538	398447	356791
30°	327510	371685	329964
35°	302142	337867	306732
40°	278714	297702	283830
45°	252463	258005	260090
50°	223809	221018	229409
55°	199517	186108	204079
60°	174599	151061	181135
65°	152790	116831	158197
70°	128593	85561	135275
75°	100440	55584	106136
80°	65867	29219	72517
85°	22553	13109	30024



TEST NUMBER: P879496

CATALOG NUMBER: LD4C75D010 EU4759050 4LBLDWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.2	5.2
10°-20°	924.2	14.3
20°-30°	1271.1	19.6
30°-40°	1326.0	20.5
40°-50°	1134.5	17.5
50°-60°	811.5	12.5
60°-70°	470.9	7.3
70°-80°	181.5	2.8
80°-90°	23.1	0.4
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°	2533.5	39.1
0°-40°	3859.6	59.6
0°-60°	5805.5	89.6
0°-90°	6481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6481.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3623	3623	3623	3623	3623	
5°	3573	3580	3593	3580	3569	336
15°	3184	3280	3409	3292	3195	893
25°	2608	2752	2939	2769	2632	1200
35°	2015	2094	2253	2128	2045	1262
45°	1453	1441	1485	1477	1497	1120
55°	932	885	869	909	953	833
65°	526	464	402	480	544	524
75°	212	158	117	168	224	228
85°	16	12	9	13	21	31
90°	0	0	0	0	0	



TEST NUMBER: P879496

CATALOG NUMBER: LD4C75D010 EU4759050 4LBDWVWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4
2.5°	3614.1	3611.4	3612.8	3612.8	3612.8	3611.4	3614.1	3614.1	3612.8	3612.8	3612.8
5°	3572.8	3570.2	3571.5	3572.8	3572.8	3572.8	3574.2	3575.5	3576.8	3578.2	3579.5
7.5°	3506.3	3502.3	3506.3	3511.6	3511.6	3513.0	3514.3	3515.6	3519.6	3526.3	3530.3
10°	3417.2	3417.2	3418.5	3422.5	3429.1	3427.8	3431.8	3438.4	3446.4	3455.7	3462.4
12.5°	3304.1	3306.7	3310.7	3314.7	3321.4	3325.3	3332.0	3340.0	3353.3	3366.6	3381.2
15°	3184.3	3185.6	3187.0	3196.3	3202.9	3212.2	3217.6	3233.5	3245.5	3264.1	3280.1
17.5°	3049.9	3048.6	3052.6	3060.5	3076.5	3080.5	3087.2	3104.5	3121.8	3147.0	3168.3
20°	2903.5	2911.5	2916.8	2927.5	2936.8	2947.4	2952.8	2974.0	2994.0	3018.0	3045.9
22.5°	2765.1	2758.5	2767.8	2779.8	2787.8	2795.7	2805.1	2827.7	2849.0	2878.2	2906.2
25°	2608.1	2612.1	2618.8	2628.1	2638.7	2649.4	2660.0	2684.0	2695.9	2726.5	2751.8
27.5°	2459.1	2465.7	2468.4	2480.4	2489.7	2497.7	2503.0	2530.9	2541.6	2568.2	2593.5
30°	2308.7	2315.4	2315.4	2328.7	2335.3	2343.3	2356.6	2375.2	2391.2	2409.8	2428.5
32.5°	2163.7	2163.7	2169.0	2181.0	2187.6	2196.9	2200.9	2214.2	2230.2	2248.8	2268.8
35°	2014.6	2018.6	2023.9	2023.9	2035.9	2041.2	2046.6	2059.9	2070.5	2078.5	2094.5
37.5°	1877.6	1877.6	1873.6	1880.2	1888.2	1886.9	1894.9	1901.5	1908.2	1917.5	1930.8
40°	1737.9	1737.9	1732.5	1736.5	1741.8	1740.5	1737.9	1744.5	1749.8	1756.5	1769.8
42.5°	1595.5	1592.8	1591.5	1591.5	1594.1	1591.5	1594.1	1595.5	1595.5	1595.5	1603.5
45°	1453.1	1459.7	1451.8	1449.1	1445.1	1441.1	1439.8	1441.1	1446.4	1439.8	1441.1
47.5°	1313.4	1316.0	1310.7	1306.7	1302.7	1300.1	1302.7	1294.7	1297.4	1298.7	1293.4
50°	1171.0	1165.7	1165.7	1161.7	1163.0	1161.7	1159.0	1156.4	1156.4	1149.7	1145.7
52.5°	1039.3	1041.9	1044.6	1035.3	1036.6	1029.9	1031.3	1024.6	1024.6	1016.6	1019.3
55°	931.5	927.5	927.5	923.5	922.2	915.5	914.2	910.2	900.9	895.5	884.9
57.5°	819.7	818.4	813.0	814.4	806.4	805.1	802.4	795.7	789.1	782.4	770.5
60°	710.6	711.9	711.9	709.2	705.3	698.6	699.9	690.6	681.3	669.3	658.7
62.5°	620.1	616.1	614.8	612.1	604.1	604.1	597.5	590.8	581.5	569.5	560.2
65°	525.6	526.9	523.0	519.0	511.0	509.6	504.3	499.0	489.7	477.7	464.4
67.5°	440.5	437.8	436.5	432.5	424.5	423.2	419.2	407.2	399.2	387.2	376.6
70°	358.0	355.3	356.6	350.0	342.0	338.0	336.7	327.3	315.4	306.1	295.4
72.5°	280.8	280.8	279.4	272.8	268.8	266.1	260.8	250.2	243.5	232.9	224.9
75°	211.6	210.2	207.6	203.6	198.3	195.6	192.9	186.3	177.0	165.0	158.3
77.5°	146.4	147.7	145.0	143.7	137.1	133.1	131.7	127.7	119.8	111.8	105.1
80°	93.1	91.8	90.5	87.8	86.5	85.2	81.2	78.5	70.5	66.5	62.5
82.5°	50.6	47.9	47.9	46.6	43.9	42.6	41.3	38.6	37.3	34.6	31.9
85°	16.0	17.3	16.0	16.0	16.0	14.6	14.6	14.6	13.3	13.3	12.0
87.5°	1.3	2.7	1.3	1.3	2.7	1.3	1.3	2.7	1.3	1.3	2.7
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: P879496

CATALOG NUMBER: LD4C75D010 EU4759050 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4
2.5°	3612.8	3614.1	3614.1	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4
5°	3583.5	3583.5	3586.2	3588.8	3588.8	3588.8	3590.1	3592.8	3592.8	3592.8	3591.5
7.5°	3535.6	3540.9	3546.2	3551.6	3552.9	3554.2	3556.9	3562.2	3562.2	3562.2	3562.2
10°	3473.0	3485.0	3491.7	3499.7	3503.7	3506.3	3514.3	3515.6	3519.6	3521.0	3519.6
12.5°	3393.2	3409.2	3423.8	3437.1	3442.4	3447.8	3455.7	3463.7	3467.7	3471.7	3470.4
15°	3304.1	3321.4	3344.0	3358.6	3369.3	3377.2	3389.2	3399.9	3406.5	3409.2	3409.2
17.5°	3196.3	3217.6	3241.5	3265.5	3272.1	3285.4	3298.7	3313.4	3321.4	3322.7	3321.4
20°	3076.5	3100.5	3120.4	3144.4	3159.0	3165.7	3184.3	3202.9	3210.9	3212.2	3210.9
22.5°	2934.1	2956.7	2983.4	3008.6	3020.6	3032.6	3052.6	3071.2	3081.8	3089.8	3081.8
25°	2775.8	2807.7	2833.0	2854.3	2871.6	2883.6	2908.8	2923.5	2940.8	2939.4	2940.8
27.5°	2620.1	2646.7	2674.6	2699.9	2710.6	2723.9	2743.8	2767.8	2782.4	2791.7	2790.4
30°	2460.4	2481.7	2505.7	2528.3	2545.6	2556.2	2585.5	2596.1	2614.8	2620.1	2616.1
32.5°	2291.4	2306.0	2330.0	2360.6	2367.3	2377.9	2396.5	2423.1	2429.8	2432.5	2433.8
35°	2111.8	2139.7	2159.7	2178.3	2183.6	2192.9	2214.2	2234.2	2240.8	2252.8	2247.5
37.5°	1945.4	1961.4	1970.7	1989.4	2005.3	2013.3	2023.9	2037.3	2050.6	2055.9	2054.6
40°	1779.1	1787.1	1795.1	1815.0	1816.4	1816.4	1832.3	1851.0	1851.0	1856.3	1856.3
42.5°	1608.8	1610.1	1620.8	1631.4	1634.1	1636.7	1652.7	1655.4	1663.3	1667.3	1672.7
45°	1443.8	1451.8	1458.4	1459.7	1466.4	1467.7	1471.7	1475.7	1487.7	1485.0	1487.7
47.5°	1293.4	1297.4	1301.4	1301.4	1305.4	1304.1	1310.7	1306.7	1314.7	1317.4	1321.4
50°	1145.7	1152.4	1148.4	1151.0	1149.7	1153.7	1151.0	1151.0	1151.0	1156.4	1160.3
52.5°	1010.0	1011.3	1007.3	1008.6	1008.6	1006.0	1008.6	1007.3	1006.0	1006.0	1007.3
55°	884.9	879.6	876.9	871.6	864.9	872.9	868.9	866.3	871.6	868.9	871.6
57.5°	763.8	757.2	751.8	749.2	739.9	745.2	739.9	737.2	737.2	737.2	743.8
60°	649.4	642.7	636.1	628.1	626.7	624.1	621.4	614.8	616.1	614.8	617.4
62.5°	549.6	536.3	526.9	520.3	519.0	515.0	511.0	504.3	505.7	505.7	507.0
65°	457.8	443.1	429.8	420.5	420.5	413.8	407.2	407.2	399.2	401.9	403.2
67.5°	365.9	354.0	340.7	334.0	330.0	324.7	320.7	318.0	314.0	314.0	316.7
70°	283.4	271.5	264.8	254.2	252.8	248.8	243.5	239.5	238.2	238.2	236.9
72.5°	214.2	203.6	195.6	189.0	185.0	181.0	175.6	174.3	171.7	171.7	174.3
75°	149.0	142.4	135.7	129.1	126.4	125.1	121.1	118.4	118.4	117.1	118.4
77.5°	99.8	93.1	86.5	83.8	81.2	78.5	77.2	75.8	71.9	71.9	71.9
80°	57.2	54.6	51.9	47.9	47.9	46.6	43.9	42.6	41.3	41.3	41.3
82.5°	29.3	27.9	25.3	24.0	24.0	24.0	22.6	22.6	21.3	21.3	21.3
85°	12.0	10.6	9.3	9.3	9.3	9.3	9.3	9.3	10.6	9.3	10.6
87.5°	1.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: P879496

CATALOG NUMBER: LD4C75D010 EU4759050 4LBDWVWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4
2.5°	3615.4	3614.1	3614.1	3614.1	3614.1	3614.1	3612.8	3612.8	3611.4	3611.4	3611.4
5°	3592.8	3591.5	3590.1	3588.8	3587.5	3586.2	3584.8	3583.5	3579.5	3578.2	3575.5
7.5°	3560.9	3558.2	3554.2	3552.9	3550.2	3546.2	3540.9	3538.2	3532.9	3526.3	3523.6
10°	3518.3	3513.0	3509.0	3502.3	3501.0	3495.7	3482.4	3475.7	3466.4	3458.4	3449.1
12.5°	3466.4	3461.1	3451.8	3442.4	3437.1	3425.1	3413.2	3402.5	3390.5	3373.2	3359.9
15°	3402.5	3394.5	3375.9	3373.2	3365.3	3346.6	3330.7	3310.7	3292.1	3273.4	3257.5
17.5°	3317.4	3300.1	3290.7	3278.8	3269.5	3245.5	3228.2	3205.6	3180.3	3159.0	3136.4
20°	3205.6	3187.0	3171.0	3164.3	3152.4	3131.1	3109.8	3081.8	3056.5	3029.9	3010.0
22.5°	3072.5	3060.5	3036.6	3028.6	3014.0	2992.7	2967.4	2940.8	2916.8	2887.6	2860.9
25°	2930.1	2912.8	2894.2	2878.2	2867.6	2847.6	2815.7	2795.7	2769.1	2737.2	2717.2
27.5°	2778.4	2758.5	2731.9	2721.2	2711.9	2685.3	2658.7	2633.4	2612.1	2584.2	2566.9
30°	2602.8	2588.2	2570.9	2557.5	2544.2	2522.9	2499.0	2469.7	2447.1	2433.8	2409.8
32.5°	2424.5	2412.5	2389.9	2383.2	2368.6	2351.3	2334.0	2312.7	2288.8	2268.8	2250.2
35°	2234.2	2222.2	2206.2	2194.3	2189.0	2177.0	2158.3	2139.7	2127.7	2105.1	2095.8
37.5°	2043.9	2039.9	2023.9	2012.0	2008.0	1993.3	1984.0	1970.7	1953.4	1948.1	1937.5
40°	1848.3	1845.6	1836.3	1835.0	1827.0	1823.0	1809.7	1799.1	1791.1	1787.1	1780.4
42.5°	1668.7	1666.0	1658.0	1659.3	1651.4	1648.7	1647.4	1638.1	1631.4	1623.4	1624.7
45°	1491.7	1489.0	1483.7	1481.0	1485.0	1483.7	1481.0	1477.0	1477.0	1478.4	1474.4
47.5°	1321.4	1324.0	1318.7	1321.4	1321.4	1317.4	1317.4	1322.7	1324.0	1326.7	1329.3
50°	1160.3	1168.3	1165.7	1169.7	1171.0	1172.3	1168.3	1175.0	1173.7	1185.6	1183.0
52.5°	1014.0	1015.3	1020.6	1022.0	1023.3	1024.6	1031.3	1036.6	1037.9	1043.2	1052.6
55°	872.9	874.2	884.9	884.9	891.5	892.9	902.2	904.9	908.8	923.5	926.1
57.5°	739.9	747.8	753.2	755.8	759.8	766.5	771.8	783.8	790.4	799.7	809.0
60°	620.1	629.4	636.1	638.7	644.0	652.0	658.7	672.0	684.0	694.6	701.3
62.5°	509.6	517.6	523.0	532.3	532.3	538.9	554.9	562.9	576.2	585.5	597.5
65°	411.2	416.5	425.8	425.8	431.1	441.8	455.1	467.1	480.4	493.7	505.7
67.5°	322.0	326.0	331.3	336.7	339.3	352.6	363.3	380.6	392.5	401.9	416.5
70°	243.5	246.2	252.8	258.1	262.1	271.5	283.4	295.4	307.4	318.0	332.7
72.5°	174.3	179.6	186.3	190.3	192.9	199.6	211.6	223.6	234.2	244.8	252.8
75°	119.8	123.8	126.4	130.4	134.4	139.7	147.7	155.7	167.7	178.3	187.6
77.5°	74.5	78.5	82.5	83.8	85.2	90.5	95.8	103.8	111.8	119.8	126.4
80°	43.9	45.2	46.6	47.9	50.6	54.6	57.2	62.5	67.9	73.2	79.8
82.5°	22.6	24.0	25.3	25.3	25.3	26.6	30.6	33.3	34.6	37.3	41.3
85°	9.3	9.3	9.3	10.6	10.6	12.0	12.0	13.3	13.3	14.6	16.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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: P879496

CATALOG NUMBER: LD4C75D010 EU4759050 4LBDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4	3623.4
2.5°	3610.1	3610.1	3610.1	3608.8	3610.1	3610.1	3610.1	3608.8
5°	3575.5	3572.8	3572.8	3571.5	3570.2	3570.2	3571.5	3568.9
7.5°	3518.3	3514.3	3511.6	3511.6	3510.3	3509.0	3509.0	3502.3
10°	3443.8	3435.8	3435.8	3433.1	3422.5	3421.2	3418.5	3418.5
12.5°	3350.6	3341.3	3336.0	3329.3	3322.7	3317.4	3316.0	3310.7
15°	3240.2	3228.2	3218.9	3216.2	3205.6	3197.6	3197.6	3194.9
17.5°	3120.4	3101.8	3095.1	3088.5	3073.8	3072.5	3069.9	3057.9
20°	2984.7	2967.4	2958.1	2951.4	2942.1	2928.8	2926.1	2927.5
22.5°	2842.3	2818.4	2810.4	2803.7	2794.4	2782.4	2782.4	2773.1
25°	2694.6	2673.3	2665.3	2657.3	2642.7	2637.4	2630.7	2632.1
27.5°	2544.2	2524.3	2517.6	2503.0	2493.7	2487.0	2480.4	2480.4
30°	2387.2	2376.6	2365.9	2364.6	2346.0	2338.0	2331.3	2326.0
32.5°	2235.5	2222.2	2216.9	2211.6	2202.3	2191.6	2190.3	2181.0
35°	2086.5	2073.2	2066.5	2061.2	2050.6	2046.6	2042.6	2045.2
37.5°	1929.5	1926.8	1922.8	1916.2	1909.5	1908.2	1902.9	1909.5
40°	1775.1	1773.8	1768.5	1769.8	1769.8	1767.1	1769.8	1769.8
42.5°	1626.1	1626.1	1620.8	1623.4	1624.7	1627.4	1631.4	1634.1
45°	1481.0	1479.7	1481.0	1483.7	1481.0	1487.7	1493.0	1497.0
47.5°	1332.0	1333.3	1338.7	1340.0	1342.6	1352.0	1352.0	1352.0
50°	1189.6	1196.3	1193.6	1201.6	1200.3	1205.6	1200.3	1200.3
52.5°	1053.9	1060.5	1061.9	1063.2	1071.2	1072.5	1072.5	1071.2
55°	932.8	942.1	938.1	944.8	948.8	951.4	955.4	952.8
57.5°	821.0	825.0	829.0	830.3	835.7	838.3	841.0	838.3
60°	710.6	718.6	725.2	726.5	729.2	731.9	733.2	737.2
62.5°	606.8	620.1	622.8	624.1	630.7	634.7	637.4	640.1
65°	515.0	524.3	530.9	534.9	540.3	540.3	544.2	544.2
67.5°	425.8	435.1	439.1	441.8	449.8	451.1	457.8	457.8
70°	344.6	351.3	354.0	358.0	365.9	371.3	373.9	376.6
72.5°	266.1	274.1	278.1	283.4	288.8	292.7	294.1	298.1
75°	194.3	206.3	207.6	212.9	216.9	222.2	224.9	223.6
77.5°	135.7	139.7	145.0	147.7	151.7	155.7	159.7	159.7
80°	83.8	89.2	90.5	91.8	97.1	99.8	102.5	102.5
82.5°	43.9	46.6	49.2	50.6	53.2	53.2	54.6	55.9
85°	17.3	18.6	18.6	18.6	20.0	21.3	21.3	21.3
87.5°	2.7	4.0	2.7	2.7	4.0	4.0	4.0	4.0
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)