

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: P879494

Luminaire Tested: **LD4C75D010 EU4759040 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: P879494
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 EU4759040 4LBLDWWH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

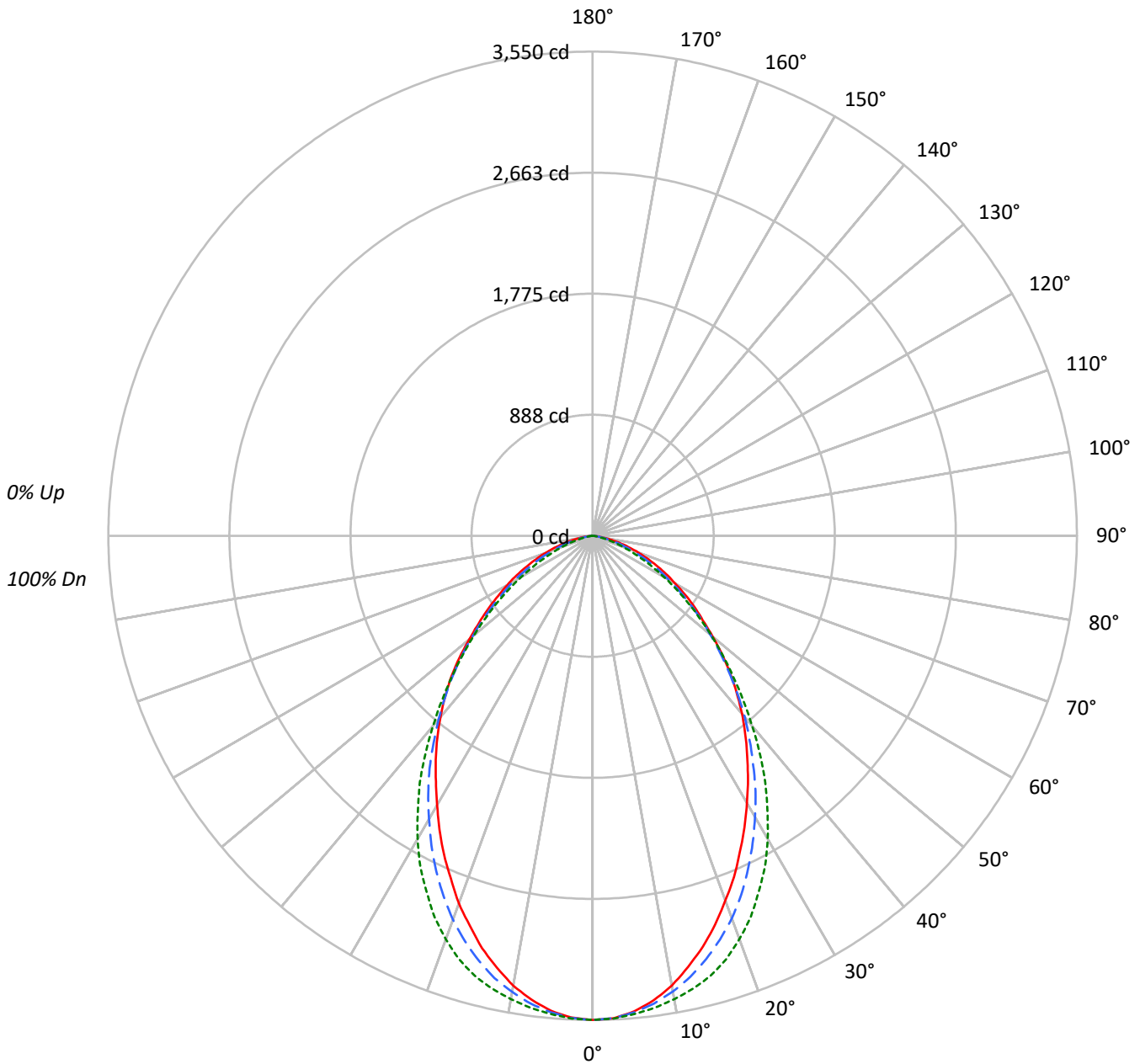
Lumens per Lamp: N/A
Luminaire Lumens: 6350.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (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			100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59			59
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52			52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	436154	436154	436154
5°	431704	434121	431223
10°	417671	430358	417833
15°	396812	424844	398147
20°	371923	411472	374996
25°	346394	390395	349580
30°	320885	364166	323297
35°	296038	331043	300538
40°	273069	291688	278088
45°	247355	252793	254826
50°	219279	216546	224764
55°	195468	182360	199945
60°	171061	147989	177474
65°	149708	114447	154999
70°	125971	83837	132545
75°	98399	54445	103953
80°	64593	28582	71031
85°	21990	12827	29460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.4	5.2
10°-20°	905.5	14.3
20°-30°	1245.4	19.6
30°-40°	1299.2	20.5
40°-50°	1111.5	17.5
50°-60°	795.1	12.5
60°-70°	461.3	7.3
70°-80°	177.9	2.8
80°-90°	22.6	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°	2482.3	39.1
0°-40°	3781.5	59.6
0°-60°	5688.2	89.6
0°-90°	6350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6350.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3550	3550	3550	3550	3550	
5°	3501	3507	3520	3507	3497	329
15°	3120	3214	3340	3226	3130	874
25°	2555	2696	2880	2713	2579	1175
35°	1974	2052	2207	2085	2004	1236
45°	1424	1412	1455	1447	1467	1097
55°	913	867	851	890	934	816
65°	515	455	394	471	533	513
75°	207	155	115	164	219	223
85°	16	12	9	13	21	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°	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2
2.5°	3541.0	3538.4	3539.7	3539.7	3539.7	3538.4	3541.0	3541.0	3539.7	3539.7	3539.7
5°	3500.6	3498.0	3499.3	3500.6	3500.6	3500.6	3501.9	3503.2	3504.5	3505.8	3507.1
7.5°	3435.4	3431.5	3435.4	3440.7	3440.7	3442.0	3443.3	3444.6	3448.5	3455.0	3458.9
10°	3348.1	3348.1	3349.4	3353.3	3359.8	3358.5	3362.4	3368.9	3376.8	3385.9	3392.4
12.5°	3237.3	3239.9	3243.8	3247.7	3254.2	3258.1	3264.6	3272.5	3285.5	3298.5	3312.9
15°	3119.9	3121.2	3122.5	3131.7	3138.2	3147.3	3152.5	3168.2	3179.9	3198.2	3213.8
17.5°	2988.2	2986.9	2990.9	2998.7	3014.3	3018.2	3024.8	3041.7	3058.7	3083.4	3104.3
20°	2844.8	2852.7	2857.9	2868.3	2877.4	2887.9	2893.1	2913.9	2933.5	2957.0	2984.3
22.5°	2709.2	2702.7	2711.8	2723.6	2731.4	2739.2	2748.4	2770.5	2791.4	2820.1	2847.4
25°	2555.4	2559.3	2565.8	2575.0	2585.4	2595.8	2606.2	2629.7	2641.4	2671.4	2696.2
27.5°	2409.4	2415.9	2418.5	2430.2	2439.4	2447.2	2452.4	2479.8	2490.2	2516.3	2541.1
30°	2262.0	2268.6	2268.6	2281.6	2288.1	2295.9	2309.0	2327.2	2342.9	2361.1	2379.4
32.5°	2119.9	2119.9	2125.1	2136.9	2143.4	2152.5	2156.4	2169.5	2185.1	2203.4	2222.9
35°	1973.9	1977.8	1983.0	1983.0	1994.8	2000.0	2005.2	2018.2	2028.7	2036.5	2052.1
37.5°	1839.6	1839.6	1835.7	1842.2	1850.1	1848.7	1856.6	1863.1	1869.6	1878.7	1891.8
40°	1702.7	1702.7	1697.5	1701.4	1706.6	1705.3	1702.7	1709.2	1714.5	1721.0	1734.0
42.5°	1563.2	1560.6	1559.3	1559.3	1561.9	1559.3	1561.9	1563.2	1563.2	1563.2	1571.0
45°	1423.7	1430.2	1422.4	1419.8	1415.9	1412.0	1410.7	1412.0	1417.2	1410.7	1412.0
47.5°	1286.8	1289.4	1284.2	1280.3	1276.4	1273.8	1276.4	1268.6	1271.2	1272.5	1267.3
50°	1147.3	1142.1	1142.1	1138.2	1139.5	1138.2	1135.6	1133.0	1133.0	1126.5	1122.5
52.5°	1018.2	1020.9	1023.5	1014.3	1015.6	1009.1	1010.4	1003.9	1003.9	996.1	998.7
55°	912.6	908.7	908.7	904.8	903.5	897.0	895.7	891.8	882.7	877.4	867.0
57.5°	803.1	801.8	796.6	797.9	790.1	788.8	786.2	779.7	773.1	766.6	754.9
60°	696.2	697.5	697.5	694.9	691.0	684.5	685.8	676.7	667.5	655.8	645.4
62.5°	607.6	603.6	602.3	599.7	591.9	591.9	585.4	578.9	569.7	558.0	548.9
65°	515.0	516.3	512.4	508.5	500.6	499.3	494.1	488.9	479.8	468.1	455.0
67.5°	431.5	428.9	427.6	423.7	415.9	414.6	410.7	399.0	391.1	379.4	369.0
70°	350.7	348.1	349.4	342.9	335.1	331.2	329.9	320.7	309.0	299.9	289.4
72.5°	275.1	275.1	273.8	267.3	263.4	260.8	255.5	245.1	238.6	228.2	220.3
75°	207.3	206.0	203.4	199.5	194.3	191.7	189.0	182.5	173.4	161.7	155.1
77.5°	143.4	144.7	142.1	140.8	134.3	130.4	129.1	125.2	117.3	109.5	103.0
80°	91.3	90.0	88.7	86.0	84.7	83.4	79.5	76.9	69.1	65.2	61.3
82.5°	49.5	46.9	46.9	45.6	43.0	41.7	40.4	37.8	36.5	33.9	31.3
85°	15.6	16.9	15.6	15.6	15.6	14.3	14.3	14.3	13.0	13.0	11.7
87.5°	1.3	2.6	1.3	1.3	2.6	1.3	1.3	2.6	1.3	1.3	2.6
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°	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2
2.5°	3539.7	3541.0	3541.0	3542.3	3542.3	3542.3	3542.3	3542.3	3542.3	3542.3	3542.3
5°	3511.1	3511.1	3513.7	3516.3	3516.3	3516.3	3517.6	3520.2	3520.2	3520.2	3518.9
7.5°	3464.1	3469.3	3474.6	3479.8	3481.1	3482.4	3485.0	3490.2	3490.2	3490.2	3490.2
10°	3402.8	3414.6	3421.1	3428.9	3432.8	3435.4	3443.3	3444.6	3448.5	3449.8	3448.5
12.5°	3324.6	3340.3	3354.6	3367.6	3372.9	3378.1	3385.9	3393.7	3397.6	3401.5	3400.2
15°	3237.3	3254.2	3276.4	3290.7	3301.2	3309.0	3320.7	3331.1	3337.7	3340.3	3340.3
17.5°	3131.7	3152.5	3176.0	3199.5	3206.0	3219.0	3232.1	3246.4	3254.2	3255.5	3254.2
20°	3014.3	3037.8	3057.3	3080.8	3095.2	3101.7	3119.9	3138.2	3146.0	3147.3	3146.0
22.5°	2874.8	2897.0	2923.1	2947.8	2959.6	2971.3	2990.9	3009.1	3019.5	3027.4	3019.5
25°	2719.7	2751.0	2775.7	2796.6	2813.5	2825.3	2850.0	2864.4	2881.3	2880.0	2881.3
27.5°	2567.1	2593.2	2620.6	2645.4	2655.8	2668.8	2688.4	2711.8	2726.2	2735.3	2734.0
30°	2410.7	2431.5	2455.0	2477.2	2494.1	2504.5	2533.2	2543.7	2561.9	2567.1	2563.2
32.5°	2245.1	2259.4	2282.9	2312.9	2319.4	2329.8	2348.1	2374.2	2380.7	2383.3	2384.6
35°	2069.1	2096.5	2116.0	2134.3	2139.5	2148.6	2169.5	2189.0	2195.6	2207.3	2202.1
37.5°	1906.1	1921.8	1930.9	1949.1	1964.8	1972.6	1983.0	1996.1	2009.1	2014.3	2013.0
40°	1743.1	1751.0	1758.8	1778.3	1779.6	1779.6	1795.3	1813.5	1813.5	1818.8	1818.8
42.5°	1576.3	1577.6	1588.0	1598.4	1601.0	1603.6	1619.3	1621.9	1629.7	1633.6	1638.8
45°	1414.6	1422.4	1428.9	1430.2	1436.8	1438.1	1442.0	1445.9	1457.6	1455.0	1457.6
47.5°	1267.3	1271.2	1275.1	1275.1	1279.0	1277.7	1284.2	1280.3	1288.1	1290.7	1294.6
50°	1122.5	1129.1	1125.2	1127.8	1126.5	1130.4	1127.8	1127.8	1127.8	1133.0	1136.9
52.5°	989.6	990.9	987.0	988.3	988.3	985.7	988.3	987.0	985.7	985.7	987.0
55°	867.0	861.8	859.2	854.0	847.5	855.3	851.4	848.8	854.0	851.4	854.0
57.5°	748.4	741.8	736.6	734.0	724.9	730.1	724.9	722.3	722.3	722.3	728.8
60°	636.2	629.7	623.2	615.4	614.1	611.5	608.9	602.3	603.6	602.3	605.0
62.5°	538.5	525.4	516.3	509.8	508.5	504.6	500.6	494.1	495.4	495.4	496.7
65°	448.5	434.2	421.1	412.0	412.0	405.5	399.0	399.0	391.1	393.7	395.0
67.5°	358.5	346.8	333.8	327.2	323.3	318.1	314.2	311.6	307.7	307.7	310.3
70°	277.7	266.0	259.5	249.0	247.7	243.8	238.6	234.7	233.4	233.4	232.1
72.5°	209.9	199.5	191.7	185.1	181.2	177.3	172.1	170.8	168.2	168.2	170.8
75°	146.0	139.5	133.0	126.5	123.9	122.6	118.6	116.0	116.0	114.7	116.0
77.5°	97.8	91.3	84.7	82.1	79.5	76.9	75.6	74.3	70.4	70.4	70.4
80°	56.1	53.5	50.8	46.9	46.9	45.6	43.0	41.7	40.4	40.4	40.4
82.5°	28.7	27.4	24.8	23.5	23.5	23.5	22.2	22.2	20.9	20.9	20.9
85°	11.7	10.4	9.1	9.1	9.1	9.1	9.1	9.1	10.4	9.1	10.4
87.5°	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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°	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2
2.5°	3542.3	3541.0	3541.0	3541.0	3541.0	3541.0	3539.7	3539.7	3538.4	3538.4	3538.4
5°	3520.2	3518.9	3517.6	3516.3	3515.0	3513.7	3512.4	3511.1	3507.1	3505.8	3503.2
7.5°	3488.9	3486.3	3482.4	3481.1	3478.5	3474.6	3469.3	3466.7	3461.5	3455.0	3452.4
10°	3447.2	3442.0	3438.0	3431.5	3430.2	3425.0	3412.0	3405.5	3396.3	3388.5	3379.4
12.5°	3396.3	3391.1	3382.0	3372.9	3367.6	3355.9	3344.2	3333.7	3322.0	3305.1	3292.0
15°	3333.7	3325.9	3307.7	3305.1	3297.2	3279.0	3263.3	3243.8	3225.5	3207.3	3191.6
17.5°	3250.3	3233.4	3224.2	3212.5	3203.4	3179.9	3163.0	3140.8	3116.0	3095.2	3073.0
20°	3140.8	3122.5	3106.9	3100.4	3088.6	3067.8	3046.9	3019.5	2994.8	2968.7	2949.1
22.5°	3010.4	2998.7	2975.2	2967.4	2953.0	2932.2	2907.4	2881.3	2857.9	2829.2	2803.1
25°	2870.9	2854.0	2835.7	2820.1	2809.6	2790.1	2758.8	2739.2	2713.2	2681.9	2662.3
27.5°	2722.3	2702.7	2676.6	2666.2	2657.1	2631.0	2604.9	2580.2	2559.3	2531.9	2515.0
30°	2550.2	2535.8	2518.9	2505.9	2492.8	2472.0	2448.5	2419.8	2397.6	2384.6	2361.1
32.5°	2375.5	2363.7	2341.6	2335.1	2320.7	2303.8	2286.8	2266.0	2242.5	2222.9	2204.7
35°	2189.0	2177.3	2161.7	2149.9	2144.7	2133.0	2114.7	2096.5	2084.7	2062.6	2053.4
37.5°	2002.6	1998.7	1983.0	1971.3	1967.4	1953.1	1943.9	1930.9	1913.9	1908.7	1898.3
40°	1810.9	1808.3	1799.2	1797.9	1790.1	1786.2	1773.1	1762.7	1754.9	1751.0	1744.4
42.5°	1634.9	1632.3	1624.5	1625.8	1618.0	1615.4	1614.1	1604.9	1598.4	1590.6	1591.9
45°	1461.5	1458.9	1453.7	1451.1	1455.0	1453.7	1451.1	1447.2	1447.2	1448.5	1444.6
47.5°	1294.6	1297.3	1292.0	1294.6	1294.6	1290.7	1290.7	1295.9	1297.3	1299.9	1302.5
50°	1136.9	1144.7	1142.1	1146.0	1147.3	1148.6	1144.7	1151.2	1149.9	1161.7	1159.1
52.5°	993.5	994.8	1000.0	1001.3	1002.6	1003.9	1010.4	1015.6	1016.9	1022.2	1031.3
55°	855.3	856.6	867.0	867.0	873.5	874.8	884.0	886.6	890.5	904.8	907.4
57.5°	724.9	732.7	737.9	740.5	744.5	751.0	756.2	767.9	774.4	783.6	792.7
60°	607.6	616.7	623.2	625.8	631.0	638.8	645.4	658.4	670.1	680.6	687.1
62.5°	499.3	507.2	512.4	521.5	521.5	528.0	543.7	551.5	564.5	573.7	585.4
65°	402.9	408.1	417.2	417.2	422.4	432.9	445.9	457.6	470.7	483.7	495.4
67.5°	315.5	319.4	324.6	329.9	332.5	345.5	355.9	372.9	384.6	393.7	408.1
70°	238.6	241.2	247.7	252.9	256.8	266.0	277.7	289.4	301.2	311.6	325.9
72.5°	170.8	176.0	182.5	186.4	189.0	195.6	207.3	219.0	229.5	239.9	247.7
75°	117.3	121.3	123.9	127.8	131.7	136.9	144.7	152.5	164.3	174.7	183.8
77.5°	73.0	76.9	80.8	82.1	83.4	88.7	93.9	101.7	109.5	117.3	123.9
80°	43.0	44.3	45.6	46.9	49.5	53.5	56.1	61.3	66.5	71.7	78.2
82.5°	22.2	23.5	24.8	24.8	24.8	26.1	30.0	32.6	33.9	36.5	40.4
85°	9.1	9.1	9.1	10.4	10.4	11.7	11.7	13.0	13.0	14.3	15.6
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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: P879494

CATALOG NUMBER: LD4C75D010 EU4759040 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2	3550.2
2.5°	3537.1	3537.1	3537.1	3535.8	3537.1	3537.1	3537.1	3535.8
5°	3503.2	3500.6	3500.6	3499.3	3498.0	3498.0	3499.3	3496.7
7.5°	3447.2	3443.3	3440.7	3440.7	3439.4	3438.0	3438.0	3431.5
10°	3374.2	3366.3	3366.3	3363.7	3353.3	3352.0	3349.4	3349.4
12.5°	3282.9	3273.8	3268.6	3262.0	3255.5	3250.3	3249.0	3243.8
15°	3174.7	3163.0	3153.8	3151.2	3140.8	3133.0	3133.0	3130.4
17.5°	3057.3	3039.1	3032.6	3026.1	3011.7	3010.4	3007.8	2996.1
20°	2924.4	2907.4	2898.3	2891.8	2882.6	2869.6	2867.0	2868.3
22.5°	2784.9	2761.4	2753.6	2747.0	2737.9	2726.2	2726.2	2717.1
25°	2640.1	2619.3	2611.5	2603.6	2589.3	2584.1	2577.6	2578.9
27.5°	2492.8	2473.3	2466.7	2452.4	2443.3	2436.8	2430.2	2430.2
30°	2339.0	2328.5	2318.1	2316.8	2298.6	2290.7	2284.2	2279.0
32.5°	2190.3	2177.3	2172.1	2166.9	2157.7	2147.3	2146.0	2136.9
35°	2044.3	2031.3	2024.8	2019.5	2009.1	2005.2	2001.3	2003.9
37.5°	1890.5	1887.9	1884.0	1877.4	1870.9	1869.6	1864.4	1870.9
40°	1739.2	1737.9	1732.7	1734.0	1734.0	1731.4	1734.0	1734.0
42.5°	1593.2	1593.2	1588.0	1590.6	1591.9	1594.5	1598.4	1601.0
45°	1451.1	1449.8	1451.1	1453.7	1451.1	1457.6	1462.8	1466.7
47.5°	1305.1	1306.4	1311.6	1312.9	1315.5	1324.6	1324.6	1324.6
50°	1165.6	1172.1	1169.5	1177.3	1176.0	1181.2	1176.0	1176.0
52.5°	1032.6	1039.1	1040.4	1041.7	1049.5	1050.8	1050.8	1049.5
55°	913.9	923.1	919.2	925.7	929.6	932.2	936.1	933.5
57.5°	804.4	808.3	812.3	813.6	818.8	821.4	824.0	821.4
60°	696.2	704.0	710.6	711.9	714.5	717.1	718.4	722.3
62.5°	594.5	607.6	610.2	611.5	618.0	621.9	624.5	627.1
65°	504.6	513.7	520.2	524.1	529.3	529.3	533.2	533.2
67.5°	417.2	426.3	430.2	432.9	440.7	442.0	448.5	448.5
70°	337.7	344.2	346.8	350.7	358.5	363.8	366.4	369.0
72.5°	260.8	268.6	272.5	277.7	282.9	286.8	288.1	292.0
75°	190.4	202.1	203.4	208.6	212.5	217.7	220.3	219.0
77.5°	133.0	136.9	142.1	144.7	148.6	152.5	156.5	156.5
80°	82.1	87.4	88.7	90.0	95.2	97.8	100.4	100.4
82.5°	43.0	45.6	48.2	49.5	52.2	52.2	53.5	54.8
85°	16.9	18.3	18.3	18.3	19.6	20.9	20.9	20.9
87.5°	2.6	3.9	2.6	2.6	3.9	3.9	3.9	3.9
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)