

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: P880598

Luminaire Tested: **LD4C65D010 EU4659030 4LBDWNH**

Issue Date: 10/4/2024

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: P880598  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251940)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C65D010 EU4659030 4LBDWNH  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

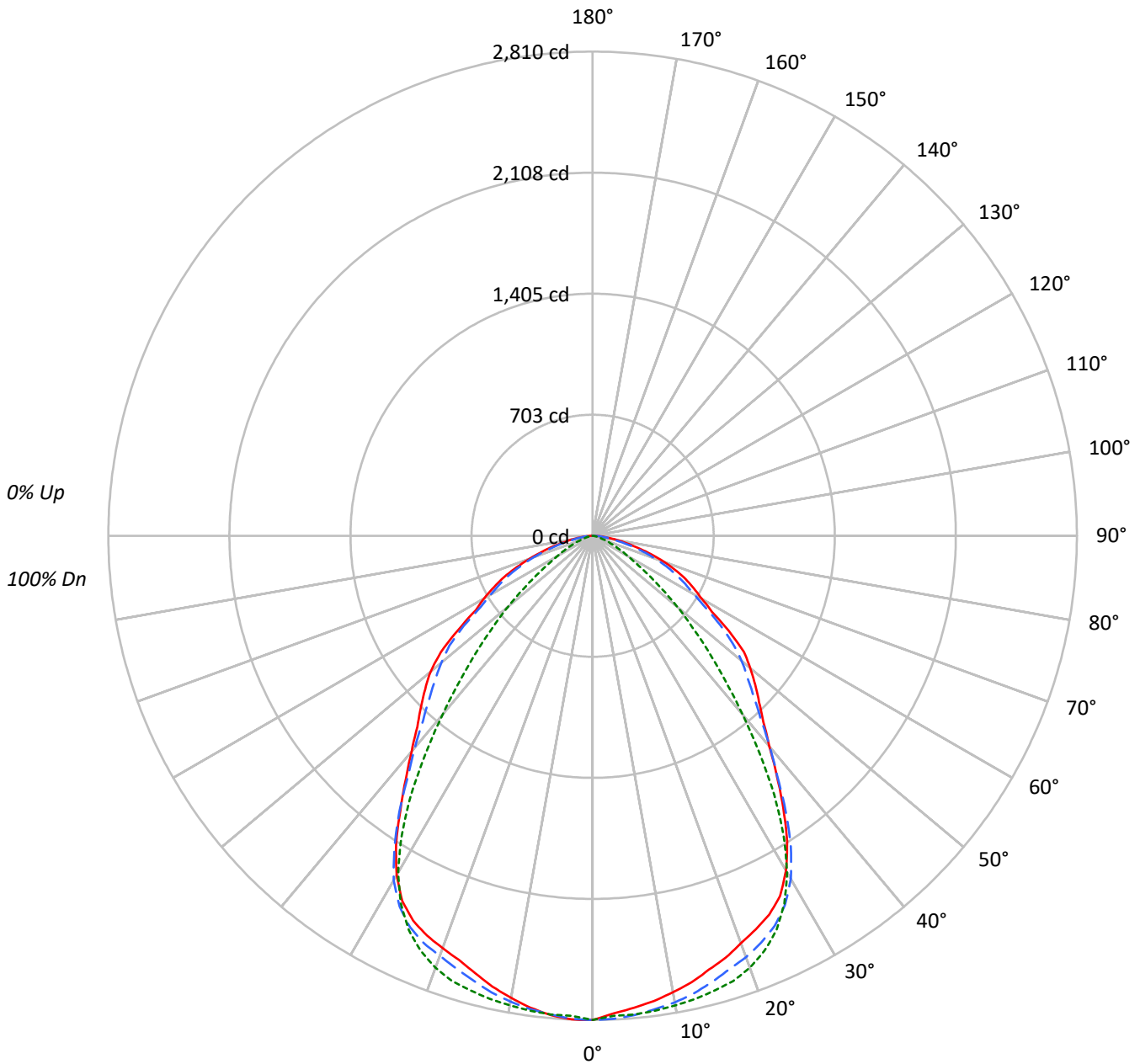
Lumens per Lamp: N/A  
Luminaire Lumens: 5719.0 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
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	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88																			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	51																			
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46																			
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41																			
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37																			
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34																			
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	345218	345218	345218
5°	339101	343886	344416
10°	335462	345180	339766
15°	331565	347488	334312
20°	328937	348743	332898
25°	328759	342246	334018
30°	318289	320147	322587
35°	289169	275582	291764
40°	255844	216986	262067
45°	237348	165228	244871
50°	228071	122321	234665
55°	206499	84283	203693
60°	179513	57348	178482
65°	173429	41511	164621
70°	156827	27982	139729
75°	129252	18417	110788
80°	104000	12239	82563
85°	85421	6061	54692



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.3	4.6
10°-20°	758.5	13.3
20°-30°	1145.9	20.0
30°-40°	1199.2	21.0
40°-50°	971.2	17.0
50°-60°	706.5	12.4
60°-70°	435.7	7.6
70°-80°	196.9	3.4
80°-90°	40.0	0.7
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°	2169.6	37.9
0°-40°	3368.8	58.9
0°-60°	5046.4	88.2
0°-90°	5719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5719.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2810	2810	2810	2810	2810	
5°	2750	2793	2788	2788	2793	261
15°	2607	2680	2732	2672	2628	737
25°	2425	2499	2525	2508	2464	1111
35°	1928	1954	1838	1954	1945	1202
45°	1366	1323	951	1340	1409	1062
55°	964	903	394	912	951	860
65°	597	536	143	528	566	584
75°	272	233	39	203	233	295
85°	61	48	4	35	39	69
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°	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0
2.5°	2775.5	2775.5	2801.5	2831.6	2805.8	2779.7	2797.0	2788.5	2818.8	2818.8	2805.8
5°	2749.7	2758.2	2779.7	2805.8	2784.3	2758.2	2779.7	2771.2	2801.5	2801.5	2792.8
7.5°	2723.6	2727.9	2753.9	2784.3	2762.5	2736.7	2753.9	2749.7	2775.5	2779.7	2771.2
10°	2689.1	2693.3	2719.4	2749.7	2727.9	2706.4	2723.6	2719.4	2753.9	2753.9	2749.7
12.5°	2654.5	2658.8	2684.8	2710.6	2689.1	2667.5	2684.8	2684.8	2719.4	2723.6	2719.4
15°	2606.9	2615.4	2637.2	2663.0	2650.3	2624.2	2641.5	2641.5	2671.8	2680.3	2680.3
17.5°	2568.1	2572.4	2593.9	2619.9	2602.7	2580.9	2598.1	2598.1	2628.5	2637.2	2637.2
20°	2516.0	2524.8	2546.3	2572.4	2559.3	2542.0	2555.1	2555.1	2589.6	2598.1	2602.7
22.5°	2472.9	2481.4	2498.7	2533.5	2511.7	2498.7	2516.0	2511.7	2550.8	2555.1	2555.1
25°	2425.3	2434.1	2455.6	2477.2	2464.1	2451.4	2464.1	2464.1	2494.5	2498.7	2498.7
27.5°	2356.2	2360.4	2382.0	2403.8	2390.8	2373.5	2390.8	2386.5	2416.5	2421.1	2416.5
30°	2243.7	2252.5	2261.0	2291.3	2278.3	2265.3	2282.5	2274.0	2304.3	2304.3	2299.8
32.5°	2101.0	2101.0	2118.5	2140.0	2122.8	2114.0	2127.0	2131.3	2153.1	2153.1	2140.0
35°	1928.1	1936.9	1949.7	1962.7	1949.7	1941.2	1954.2	1949.7	1975.7	1967.0	1954.2
37.5°	1755.3	1759.6	1772.6	1789.9	1772.6	1759.6	1763.8	1759.6	1781.1	1781.1	1759.6
40°	1595.3	1604.0	1612.5	1629.8	1612.5	1604.0	1608.3	1595.3	1621.3	1612.5	1599.5
42.5°	1465.5	1469.8	1482.8	1491.6	1474.3	1469.8	1474.3	1465.5	1478.5	1469.8	1444.0
45°	1366.1	1366.1	1370.6	1383.4	1366.1	1361.8	1361.8	1353.0	1366.1	1348.8	1323.0
47.5°	1279.7	1283.9	1288.4	1296.9	1283.9	1271.2	1275.4	1258.1	1266.6	1253.6	1219.0
50°	1193.3	1201.8	1206.3	1214.8	1201.8	1193.3	1197.5	1180.2	1180.2	1158.7	1128.4
52.5°	1106.8	1111.1	1106.8	1115.4	1106.8	1093.8	1098.1	1080.8	1080.8	1055.0	1024.7
55°	964.1	968.3	972.8	981.3	972.8	959.8	968.3	955.6	955.6	938.0	903.4
57.5°	821.3	825.8	830.1	834.3	834.3	825.8	830.1	821.3	817.0	804.0	778.2
60°	730.6	730.6	730.6	734.9	730.6	726.4	726.4	717.6	717.6	700.3	674.5
62.5°	661.5	665.8	665.8	670.0	665.8	661.5	657.2	648.5	644.2	626.9	605.1
65°	596.6	596.6	592.4	600.9	596.6	592.4	592.4	583.6	575.1	557.8	536.0
67.5°	518.7	523.0	518.7	523.0	523.0	518.7	514.5	505.7	501.4	488.4	462.6
70°	436.6	436.6	436.6	441.1	436.6	436.6	441.1	428.1	423.8	406.3	384.7
72.5°	354.4	358.9	358.9	354.4	358.9	350.2	350.2	350.2	345.9	328.6	306.8
75°	272.3	276.8	276.8	281.0	276.8	272.3	272.3	268.0	263.7	250.7	233.4
77.5°	203.1	203.1	207.4	207.4	207.4	203.1	203.1	194.6	194.6	185.8	168.6
80°	147.0	147.0	142.8	147.0	147.0	142.8	142.8	138.3	138.3	129.7	116.7
82.5°	95.2	99.4	99.4	99.4	99.4	95.2	95.2	95.2	90.7	86.4	77.9
85°	60.6	60.6	60.6	60.6	64.9	60.6	64.9	60.6	60.6	51.8	47.6
87.5°	26.1	26.1	26.1	30.3	30.3	26.1	26.1	26.1	26.1	26.1	21.5
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°	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0
2.5°	2805.8	2810.0	2797.0	2814.3	2801.5	2805.8	2810.0	2805.8	2788.5	2788.5	2836.1
5°	2788.5	2797.0	2784.3	2805.8	2797.0	2797.0	2805.8	2801.5	2784.3	2788.5	2831.6
7.5°	2771.2	2784.3	2775.5	2797.0	2784.3	2784.3	2792.8	2792.8	2775.5	2779.7	2818.8
10°	2745.2	2762.5	2758.2	2779.7	2767.0	2767.0	2779.7	2779.7	2762.5	2767.0	2805.8
12.5°	2723.6	2740.9	2736.7	2758.2	2749.7	2753.9	2758.2	2767.0	2745.2	2753.9	2788.5
15°	2689.1	2706.4	2706.4	2727.9	2719.4	2727.9	2736.7	2749.7	2732.1	2732.1	2767.0
17.5°	2650.3	2671.8	2671.8	2689.1	2689.1	2693.3	2710.6	2723.6	2706.4	2710.6	2740.9
20°	2606.9	2633.0	2633.0	2654.5	2650.3	2658.8	2671.8	2684.8	2667.5	2667.5	2702.1
22.5°	2563.6	2585.4	2589.6	2602.7	2602.7	2606.9	2619.9	2628.5	2606.9	2606.9	2641.5
25°	2503.2	2524.8	2529.0	2537.8	2529.0	2529.0	2537.8	2546.3	2524.8	2524.8	2555.1
27.5°	2421.1	2442.6	2442.6	2438.4	2429.6	2434.1	2429.6	2434.1	2412.3	2408.0	2438.4
30°	2299.8	2312.9	2312.9	2308.6	2295.6	2295.6	2282.5	2287.1	2256.8	2256.8	2282.5
32.5°	2135.8	2148.5	2140.0	2131.3	2114.0	2105.5	2096.7	2092.4	2062.1	2062.1	2092.4
35°	1941.2	1949.7	1936.9	1919.6	1897.8	1884.8	1872.0	1854.8	1833.0	1837.5	1854.8
37.5°	1742.3	1742.3	1725.0	1690.4	1673.2	1651.4	1629.8	1629.8	1595.3	1591.0	1604.0
40°	1573.7	1556.4	1526.1	1478.5	1448.2	1426.7	1396.4	1379.1	1353.0	1353.0	1374.8
42.5°	1422.4	1387.9	1348.8	1283.9	1253.6	1227.8	1189.0	1171.7	1141.4	1136.9	1149.9
45°	1288.4	1253.6	1197.5	1128.4	1089.6	1059.3	1002.9	981.3	955.6	951.0	959.8
47.5°	1180.2	1141.4	1072.3	981.3	942.5	903.4	847.3	817.0	795.5	782.5	795.5
50°	1085.0	1033.2	959.8	864.6	812.8	778.2	709.1	678.8	648.5	640.0	644.2
52.5°	981.3	929.5	851.6	752.2	704.6	652.7	587.9	544.8	518.7	505.7	518.7
55°	868.9	817.0	739.4	640.0	587.9	540.5	471.1	436.6	406.3	393.5	406.3
57.5°	747.9	700.3	631.2	531.8	484.2	441.1	376.2	341.7	311.3	302.6	311.3
60°	644.2	605.1	536.0	441.1	402.0	354.4	298.3	263.7	237.7	233.4	237.7
62.5°	575.1	531.8	466.9	376.2	337.1	298.3	246.5	211.9	190.1	185.8	190.1
65°	505.7	458.4	397.8	319.8	281.0	250.7	198.9	168.6	147.0	142.8	147.0
67.5°	428.1	384.7	332.9	263.7	233.4	203.1	160.1	129.7	112.5	108.2	112.5
70°	354.4	315.6	263.7	211.9	181.6	160.1	121.0	99.4	82.2	77.9	82.2
72.5°	281.0	246.5	203.1	160.1	142.8	121.0	95.2	73.4	60.6	56.1	60.6
75°	216.2	190.1	155.5	116.7	103.7	90.7	64.9	51.8	43.3	38.8	43.3
77.5°	151.3	134.0	108.2	86.4	73.4	64.9	47.6	34.6	30.3	26.1	30.3
80°	103.7	90.7	73.4	56.1	47.6	38.8	30.3	21.5	17.3	17.3	17.3
82.5°	69.1	56.1	43.3	34.6	30.3	26.1	17.3	13.0	13.0	8.8	8.8
85°	38.8	34.6	26.1	21.5	17.3	13.0	8.8	8.8	4.3	4.3	4.3
87.5°	17.3	13.0	8.8	8.8	4.3	4.3	4.3	4.3	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°	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0
2.5°	2823.1	2810.0	2827.3	2810.0	2801.5	2810.0	2801.5	2827.3	2805.8	2788.5	2805.8
5°	2818.8	2801.5	2818.8	2805.8	2792.8	2797.0	2788.5	2814.3	2788.5	2775.5	2784.3
7.5°	2810.0	2797.0	2805.8	2792.8	2779.7	2784.3	2775.5	2797.0	2771.2	2758.2	2767.0
10°	2797.0	2784.3	2788.5	2779.7	2767.0	2767.0	2758.2	2775.5	2745.2	2727.9	2736.7
12.5°	2779.7	2762.5	2771.2	2758.2	2740.9	2740.9	2732.1	2745.2	2714.9	2697.6	2702.1
15°	2758.2	2740.9	2740.9	2727.9	2710.6	2710.6	2693.3	2706.4	2671.8	2654.5	2654.5
17.5°	2732.1	2710.6	2710.6	2697.6	2676.0	2671.8	2658.8	2671.8	2633.0	2615.4	2615.4
20°	2693.3	2676.0	2671.8	2663.0	2641.5	2637.2	2619.9	2624.2	2593.9	2580.9	2576.6
22.5°	2641.5	2624.2	2628.5	2615.4	2598.1	2593.9	2576.6	2589.6	2559.3	2546.3	2550.8
25°	2550.8	2542.0	2550.8	2546.3	2533.5	2533.5	2524.8	2533.5	2507.5	2498.7	2503.2
27.5°	2446.9	2442.6	2446.9	2446.9	2438.4	2438.4	2438.4	2451.4	2425.3	2421.1	2421.1
30°	2295.6	2295.6	2299.8	2304.3	2304.3	2312.9	2308.6	2325.9	2308.6	2299.8	2308.6
32.5°	2096.7	2114.0	2127.0	2127.0	2127.0	2135.8	2144.3	2157.3	2140.0	2144.3	2144.3
35°	1872.0	1884.8	1893.6	1915.1	1902.3	1932.4	1941.2	1958.4	1954.2	1962.7	1958.4
37.5°	1621.3	1638.6	1655.9	1686.2	1681.7	1716.2	1733.5	1768.1	1759.6	1776.9	1785.4
40°	1387.9	1413.7	1439.7	1461.3	1478.5	1513.1	1547.7	1591.0	1604.0	1616.8	1621.3
42.5°	1162.9	1189.0	1232.1	1262.4	1288.4	1344.5	1392.1	1444.0	1457.0	1482.8	1491.6
45°	981.3	1002.9	1055.0	1093.8	1115.4	1197.5	1253.6	1318.5	1340.3	1370.6	1383.4
47.5°	812.8	851.6	903.4	951.0	981.3	1067.8	1141.4	1210.5	1240.8	1275.4	1292.7
50°	665.8	709.1	778.2	821.3	864.6	959.8	1042.0	1115.4	1145.7	1184.5	1201.8
52.5°	544.8	592.4	657.2	704.6	752.2	851.6	938.0	1007.4	1046.2	1072.3	1098.1
55°	428.1	479.9	544.8	596.6	635.4	743.7	817.0	886.2	912.2	933.8	946.8
57.5°	332.9	371.7	436.6	479.9	527.5	622.4	696.1	747.9	769.4	795.5	804.0
60°	259.5	298.3	358.9	402.0	445.3	536.0	609.7	661.5	683.0	704.6	717.6
62.5°	207.4	246.5	302.6	341.7	380.5	462.6	527.5	579.3	605.1	626.9	640.0
65°	164.3	198.9	246.5	285.3	315.6	389.0	453.9	501.4	527.5	549.0	562.1
67.5°	129.7	160.1	203.1	229.2	259.5	319.8	376.2	419.3	441.1	466.9	479.9
70°	99.4	121.0	160.1	181.6	203.1	255.0	298.3	341.7	363.2	380.5	389.0
72.5°	73.4	90.7	121.0	138.3	151.3	194.6	229.2	259.5	276.8	294.1	302.6
75°	51.8	64.9	86.4	99.4	108.2	138.3	168.6	190.1	203.1	216.2	229.2
77.5°	34.6	43.3	56.1	64.9	73.4	95.2	112.5	129.7	142.8	155.5	160.1
80°	21.5	30.3	38.8	43.3	47.6	60.6	77.9	86.4	95.2	103.7	108.2
82.5°	13.0	17.3	21.5	26.1	30.3	38.8	47.6	56.1	60.6	69.1	73.4
85°	4.3	8.8	8.8	13.0	13.0	21.5	26.1	30.3	34.6	38.8	43.3
87.5°	0.0	0.0	4.3	4.3	4.3	4.3	8.8	8.8	8.8	8.8	8.8
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: P880598

CATALOG NUMBER: LD4C65D010 EU4659030 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0	2810.0
2.5°	2823.1	2810.0	2801.5	2797.0	2827.3	2788.5	2805.8	2810.0
5°	2805.8	2792.8	2784.3	2779.7	2805.8	2771.2	2784.3	2792.8
7.5°	2779.7	2771.2	2758.2	2753.9	2779.7	2740.9	2758.2	2762.5
10°	2749.7	2736.7	2727.9	2723.6	2745.2	2706.4	2723.6	2723.6
12.5°	2710.6	2702.1	2684.8	2684.8	2702.1	2667.5	2680.3	2680.3
15°	2658.8	2650.3	2633.0	2633.0	2650.3	2615.4	2628.5	2628.5
17.5°	2615.4	2606.9	2593.9	2589.6	2606.9	2572.4	2585.4	2580.9
20°	2580.9	2572.4	2555.1	2555.1	2568.1	2533.5	2546.3	2546.3
22.5°	2550.8	2546.3	2529.0	2529.0	2546.3	2511.7	2520.5	2511.7
25°	2503.2	2498.7	2481.4	2485.9	2494.5	2459.9	2472.9	2464.1
27.5°	2425.3	2425.3	2408.0	2403.8	2416.5	2386.5	2395.0	2390.8
30°	2304.3	2308.6	2287.1	2287.1	2291.3	2265.3	2278.3	2274.0
32.5°	2140.0	2144.3	2127.0	2122.8	2135.8	2114.0	2122.8	2122.8
35°	1958.4	1962.7	1949.7	1949.7	1962.7	1949.7	1949.7	1945.4
37.5°	1776.9	1785.4	1776.9	1781.1	1789.9	1776.9	1785.4	1781.1
40°	1629.8	1638.6	1625.6	1634.1	1642.8	1629.8	1642.8	1634.1
42.5°	1495.8	1508.8	1500.1	1508.8	1517.4	1508.8	1517.4	1504.6
45°	1396.4	1405.2	1400.6	1405.2	1413.7	1409.4	1413.7	1409.4
47.5°	1301.2	1318.5	1310.0	1318.5	1331.5	1323.0	1331.5	1318.5
50°	1214.8	1227.8	1223.6	1232.1	1236.3	1232.1	1240.8	1227.8
52.5°	1102.3	1115.4	1111.1	1111.1	1119.6	1111.1	1119.6	1111.1
55°	955.6	959.8	959.8	964.1	959.8	955.6	959.8	951.0
57.5°	812.8	821.3	808.5	821.3	817.0	812.8	812.8	804.0
60°	721.9	734.9	726.4	734.9	730.6	730.6	730.6	726.4
62.5°	648.5	657.2	648.5	652.7	652.7	652.7	648.5	644.2
65°	566.3	579.3	570.6	575.1	570.6	566.3	570.6	566.3
67.5°	484.2	488.4	488.4	484.2	484.2	484.2	484.2	475.7
70°	393.5	397.8	393.5	402.0	397.8	393.5	397.8	389.0
72.5°	306.8	311.3	306.8	311.3	306.8	306.8	306.8	306.8
75°	229.2	233.4	233.4	233.4	233.4	233.4	224.9	233.4
77.5°	164.3	164.3	164.3	168.6	164.3	164.3	164.3	164.3
80°	112.5	112.5	112.5	116.7	112.5	116.7	112.5	116.7
82.5°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
85°	38.8	43.3	43.3	38.8	38.8	38.8	38.8	38.8
87.5°	8.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)