

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: P880593

Luminaire Tested: **LD4C60D010 EU4609030 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: P880593
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: LD4C60D010 EU4609030 4LBDWNH
Description: 4 INCH 6000 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

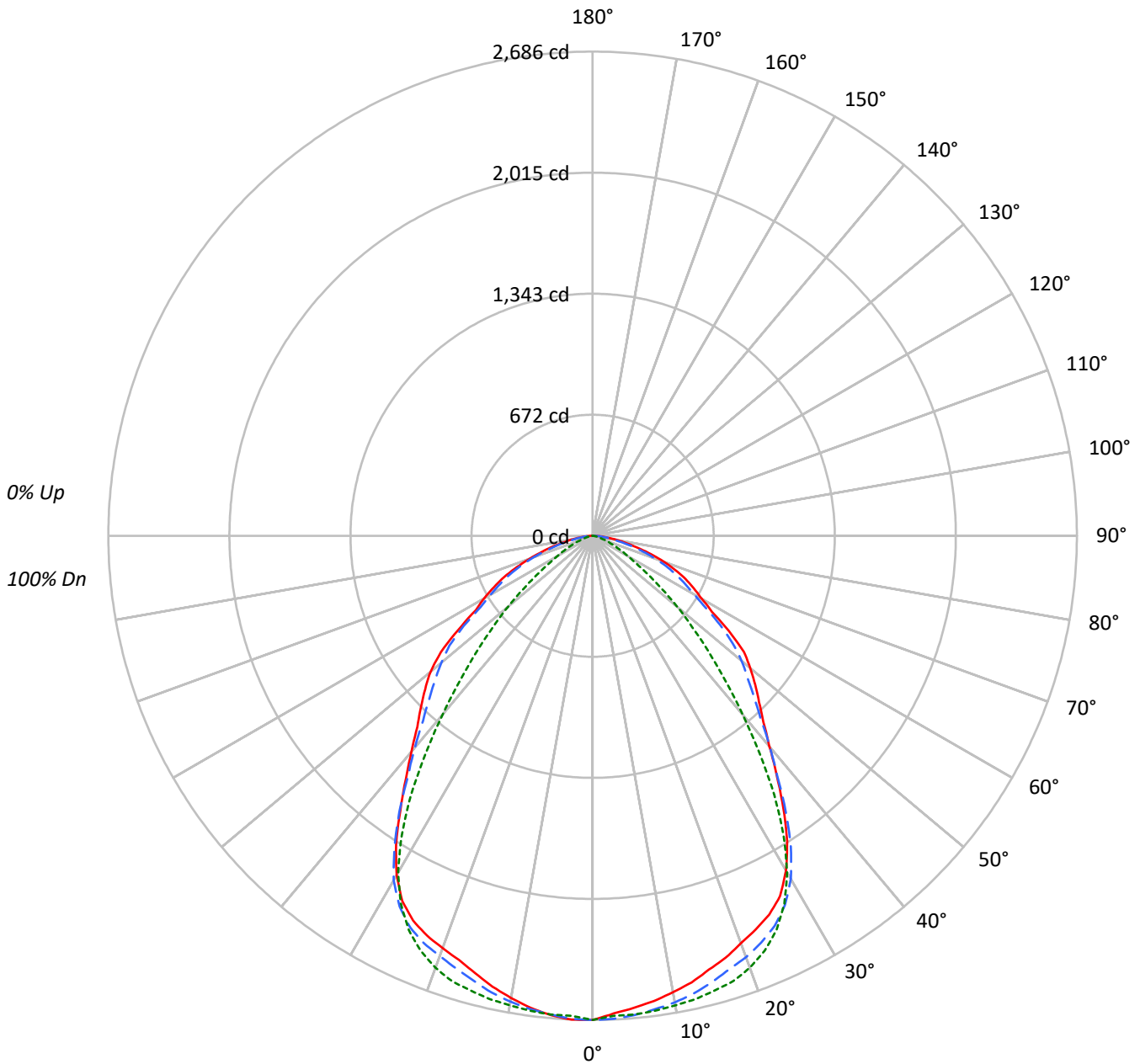
Lumens per Lamp: N/A
Luminaire Lumens: 5467.0 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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									
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°	330009	330009	330009
5°	324154	328729	329235
10°	320679	329973	324796
15°	316951	332188	319571
20°	314438	333382	318229
25°	314282	327159	319311
30°	304273	306032	308373
35°	276437	263434	278911
40°	244570	207428	250520
45°	226888	157948	234081
50°	218018	116931	224325
55°	197396	80578	194719
60°	171602	54842	170619
65°	165784	39680	157383
70°	149894	26760	133550
75°	123556	17610	105946
80°	99472	11674	78955
85°	81615	5779	52296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	4.6
10°-20°	725.0	13.3
20°-30°	1095.4	20.0
30°-40°	1146.3	21.0
40°-50°	928.4	17.0
50°-60°	675.3	12.4
60°-70°	416.5	7.6
70°-80°	188.2	3.4
80°-90°	38.2	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°	2074.0	37.9
0°-40°	3220.3	58.9
0°-60°	4824.1	88.2
0°-90°	5467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5467.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2686	2686	2686	2686	2686	
5°	2628	2670	2666	2666	2670	249
15°	2492	2562	2612	2554	2513	704
25°	2318	2389	2414	2397	2356	1062
35°	1843	1868	1756	1868	1860	1149
45°	1306	1265	909	1281	1347	1015
55°	922	864	376	872	909	822
65°	570	512	136	504	541	558
75°	260	223	37	194	223	282
85°	58	46	4	33	37	66
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°	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2
2.5°	2653.2	2653.2	2678.1	2706.8	2682.2	2657.3	2673.8	2665.6	2694.6	2694.6	2682.2
5°	2628.5	2636.7	2657.3	2682.2	2661.6	2636.7	2657.3	2649.1	2678.1	2678.1	2669.7
7.5°	2603.6	2607.7	2632.6	2661.6	2640.7	2616.1	2632.6	2628.5	2653.2	2657.3	2649.1
10°	2570.6	2574.6	2599.6	2628.5	2607.7	2587.1	2603.6	2599.6	2632.6	2632.6	2628.5
12.5°	2537.5	2541.6	2566.5	2591.2	2570.6	2550.0	2566.5	2566.5	2599.6	2603.6	2599.6
15°	2492.0	2500.2	2521.0	2545.7	2533.5	2508.6	2525.1	2525.1	2554.1	2562.2	2562.2
17.5°	2454.9	2459.0	2479.6	2504.5	2488.0	2467.1	2483.7	2483.7	2512.6	2521.0	2521.0
20°	2405.1	2413.5	2434.1	2459.0	2446.6	2430.0	2442.5	2442.5	2475.5	2483.7	2488.0
22.5°	2363.9	2372.1	2388.6	2421.9	2401.1	2388.6	2405.1	2401.1	2438.4	2442.5	2442.5
25°	2318.5	2326.8	2347.4	2368.0	2355.6	2343.4	2355.6	2355.6	2384.5	2388.6	2388.6
27.5°	2252.4	2256.4	2277.0	2297.9	2285.4	2268.9	2285.4	2281.3	2310.1	2314.4	2310.1
30°	2144.9	2153.3	2161.4	2190.4	2177.9	2165.4	2182.0	2173.8	2202.8	2202.8	2198.5
32.5°	2008.4	2008.4	2025.2	2045.7	2029.2	2020.8	2033.3	2037.4	2058.2	2058.2	2045.7
35°	1843.2	1851.6	1863.8	1876.2	1863.8	1855.6	1868.1	1863.8	1888.7	1880.3	1868.1
37.5°	1678.0	1682.0	1694.5	1711.0	1694.5	1682.0	1686.1	1682.0	1702.6	1702.6	1682.0
40°	1525.0	1533.4	1541.5	1558.0	1541.5	1533.4	1537.4	1525.0	1549.9	1541.5	1529.0
42.5°	1400.9	1405.0	1417.5	1425.8	1409.3	1405.0	1409.3	1400.9	1413.4	1405.0	1380.3
45°	1305.9	1305.9	1310.2	1322.4	1305.9	1301.8	1301.8	1293.4	1305.9	1289.4	1264.7
47.5°	1223.3	1227.3	1231.7	1239.8	1227.3	1215.1	1219.2	1202.7	1210.8	1198.4	1165.3
50°	1140.7	1148.8	1153.1	1161.3	1148.8	1140.7	1144.7	1128.2	1128.2	1107.6	1078.7
52.5°	1058.1	1062.1	1058.1	1066.2	1058.1	1045.6	1049.7	1033.2	1033.2	1008.5	979.5
55°	921.6	925.7	930.0	938.1	930.0	917.5	925.7	913.5	913.5	896.7	863.6
57.5°	785.1	789.4	793.5	797.6	797.6	789.4	793.5	785.1	781.0	768.6	743.9
60°	698.4	698.4	698.4	702.5	698.4	694.4	694.4	686.0	686.0	669.5	644.8
62.5°	632.4	636.4	636.4	640.5	636.4	632.4	628.3	619.9	615.8	599.3	578.5
65°	570.3	570.3	566.3	574.4	570.3	566.3	566.3	557.9	549.7	533.2	512.4
67.5°	495.9	499.9	495.9	499.9	499.9	495.9	491.8	483.4	479.3	466.9	442.2
70°	417.3	417.3	417.3	421.7	417.3	417.3	421.7	409.2	405.1	388.4	367.8
72.5°	338.8	343.1	343.1	338.8	343.1	334.7	334.7	334.7	330.7	314.1	293.3
75°	260.3	264.6	264.6	268.6	264.6	260.3	260.3	256.2	252.1	239.7	223.2
77.5°	194.2	194.2	198.2	198.2	198.2	194.2	194.2	186.0	186.0	177.7	161.1
80°	140.6	140.6	136.5	140.6	140.6	136.5	136.5	132.2	132.2	124.0	111.6
82.5°	91.0	95.1	95.1	95.1	95.1	91.0	91.0	91.0	86.7	82.6	74.5
85°	57.9	57.9	57.9	57.9	62.0	57.9	62.0	57.9	57.9	49.6	45.5
87.5°	24.9	24.9	24.9	29.0	29.0	24.9	24.9	24.9	24.9	24.9	20.6
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°	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2
2.5°	2682.2	2686.2	2673.8	2690.3	2678.1	2682.2	2686.2	2682.2	2665.6	2665.6	2711.1
5°	2665.6	2673.8	2661.6	2682.2	2673.8	2673.8	2682.2	2678.1	2661.6	2665.6	2706.8
7.5°	2649.1	2661.6	2653.2	2673.8	2661.6	2661.6	2669.7	2669.7	2653.2	2657.3	2694.6
10°	2624.2	2640.7	2636.7	2657.3	2645.1	2645.1	2657.3	2657.3	2640.7	2645.1	2682.2
12.5°	2603.6	2620.1	2616.1	2636.7	2628.5	2632.6	2636.7	2645.1	2624.2	2632.6	2665.6
15°	2570.6	2587.1	2587.1	2607.7	2599.6	2607.7	2616.1	2628.5	2611.8	2611.8	2645.1
17.5°	2533.5	2554.1	2554.1	2570.6	2570.6	2574.6	2591.2	2603.6	2587.1	2591.2	2620.1
20°	2492.0	2517.0	2517.0	2537.5	2533.5	2541.6	2554.1	2566.5	2550.0	2550.0	2583.0
22.5°	2450.6	2471.5	2475.5	2488.0	2488.0	2492.0	2504.5	2512.6	2492.0	2492.0	2525.1
25°	2392.9	2413.5	2417.6	2426.0	2417.6	2417.6	2426.0	2434.1	2413.5	2413.5	2442.5
27.5°	2314.4	2335.0	2335.0	2330.9	2322.5	2326.8	2322.5	2326.8	2306.0	2301.9	2330.9
30°	2198.5	2210.9	2210.9	2206.9	2194.4	2194.4	2182.0	2186.3	2157.3	2157.3	2182.0
32.5°	2041.7	2053.9	2045.7	2037.4	2020.8	2012.7	2004.3	2000.2	1971.3	1971.3	2000.2
35°	1855.6	1863.8	1851.6	1835.0	1814.2	1801.7	1789.5	1773.0	1752.2	1756.5	1773.0
37.5°	1665.5	1665.5	1649.0	1616.0	1599.4	1578.6	1558.0	1558.0	1525.0	1520.9	1533.4
40°	1504.4	1487.9	1458.9	1413.4	1384.4	1363.8	1334.9	1318.3	1293.4	1293.4	1314.3
42.5°	1359.8	1326.7	1289.4	1227.3	1198.4	1173.7	1136.6	1120.1	1091.1	1086.8	1099.2
45°	1231.7	1198.4	1144.7	1078.7	1041.6	1012.6	958.7	938.1	913.5	909.1	917.5
47.5°	1128.2	1091.1	1025.0	938.1	901.0	863.6	810.0	781.0	760.4	748.0	760.4
50°	1037.2	987.7	917.5	826.5	777.0	743.9	677.8	648.9	619.9	611.8	615.8
52.5°	938.1	888.5	814.1	719.0	673.5	624.0	561.9	520.8	495.9	483.4	495.9
55°	830.6	781.0	706.8	611.8	561.9	516.7	450.4	417.3	388.4	376.2	388.4
57.5°	715.0	669.5	603.4	508.3	462.8	421.7	359.6	326.6	297.6	289.2	297.6
60°	615.8	578.5	512.4	421.7	384.3	338.8	285.2	252.1	227.2	223.2	227.2
62.5°	549.7	508.3	446.3	359.6	322.3	285.2	235.6	202.6	181.7	177.7	181.7
65°	483.4	438.2	380.2	305.8	268.6	239.7	190.1	161.1	140.6	136.5	140.6
67.5°	409.2	367.8	318.2	252.1	223.2	194.2	153.0	124.0	107.5	103.4	107.5
70°	338.8	301.7	252.1	202.6	173.6	153.0	115.6	95.1	78.5	74.5	78.5
72.5°	268.6	235.6	194.2	153.0	136.5	115.6	91.0	70.1	57.9	53.6	57.9
75°	206.6	181.7	148.7	111.6	99.1	86.7	62.0	49.6	41.4	37.1	41.4
77.5°	144.6	128.1	103.4	82.6	70.1	62.0	45.5	33.0	29.0	24.9	29.0
80°	99.1	86.7	70.1	53.6	45.5	37.1	29.0	20.6	16.5	16.5	16.5
82.5°	66.1	53.6	41.4	33.0	29.0	24.9	16.5	12.5	12.5	8.4	8.4
85°	37.1	33.0	24.9	20.6	16.5	12.5	8.4	8.4	4.1	4.1	4.1
87.5°	16.5	12.5	8.4	8.4	4.1	4.1	4.1	4.1	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°	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2
2.5°	2698.7	2686.2	2702.7	2686.2	2678.1	2686.2	2678.1	2702.7	2682.2	2665.6	2682.2
5°	2694.6	2678.1	2694.6	2682.2	2669.7	2673.8	2665.6	2690.3	2665.6	2653.2	2661.6
7.5°	2686.2	2673.8	2682.2	2669.7	2657.3	2661.6	2653.2	2673.8	2649.1	2636.7	2645.1
10°	2673.8	2661.6	2665.6	2657.3	2645.1	2645.1	2636.7	2653.2	2624.2	2607.7	2616.1
12.5°	2657.3	2640.7	2649.1	2636.7	2620.1	2620.1	2611.8	2624.2	2595.2	2578.7	2583.0
15°	2636.7	2620.1	2620.1	2607.7	2591.2	2591.2	2574.6	2587.1	2554.1	2537.5	2537.5
17.5°	2611.8	2591.2	2591.2	2578.7	2558.1	2554.1	2541.6	2554.1	2517.0	2500.2	2500.2
20°	2574.6	2558.1	2554.1	2545.7	2525.1	2521.0	2504.5	2508.6	2479.6	2467.1	2463.1
22.5°	2525.1	2508.6	2512.6	2500.2	2483.7	2479.6	2463.1	2475.5	2446.6	2434.1	2438.4
25°	2438.4	2430.0	2438.4	2434.1	2421.9	2421.9	2413.5	2421.9	2397.0	2388.6	2392.9
27.5°	2339.0	2335.0	2339.0	2339.0	2330.9	2330.9	2330.9	2343.4	2318.5	2314.4	2314.4
30°	2194.4	2194.4	2198.5	2202.8	2202.8	2210.9	2206.9	2223.4	2206.9	2198.5	2206.9
32.5°	2004.3	2020.8	2033.3	2033.3	2033.3	2041.7	2049.8	2062.3	2045.7	2049.8	2049.8
35°	1789.5	1801.7	1810.1	1830.7	1818.5	1847.2	1855.6	1872.1	1868.1	1876.2	1872.1
37.5°	1549.9	1566.4	1582.9	1611.9	1607.6	1640.6	1657.1	1690.2	1682.0	1698.6	1706.7
40°	1326.7	1351.4	1376.3	1396.9	1413.4	1446.4	1479.5	1520.9	1533.4	1545.6	1549.9
42.5°	1111.7	1136.6	1177.8	1206.8	1231.7	1285.3	1330.8	1380.3	1392.8	1417.5	1425.8
45°	938.1	958.7	1008.5	1045.6	1066.2	1144.7	1198.4	1260.4	1281.2	1310.2	1322.4
47.5°	777.0	814.1	863.6	909.1	938.1	1020.7	1091.1	1157.2	1186.2	1219.2	1235.7
50°	636.4	677.8	743.9	785.1	826.5	917.5	996.1	1066.2	1095.2	1132.3	1148.8
52.5°	520.8	566.3	628.3	673.5	719.0	814.1	896.7	963.0	1000.1	1025.0	1049.7
55°	409.2	458.8	520.8	570.3	607.4	710.9	781.0	847.1	872.0	892.6	905.1
57.5°	318.2	355.3	417.3	458.8	504.3	595.0	665.4	715.0	735.5	760.4	768.6
60°	248.1	285.2	343.1	384.3	425.7	512.4	582.8	632.4	652.9	673.5	686.0
62.5°	198.2	235.6	289.2	326.6	363.7	442.2	504.3	553.8	578.5	599.3	611.8
65°	157.1	190.1	235.6	272.7	301.7	371.8	433.9	479.3	504.3	524.8	537.3
67.5°	124.0	153.0	194.2	219.1	248.1	305.8	359.6	400.8	421.7	446.3	458.8
70°	95.1	115.6	153.0	173.6	194.2	243.7	285.2	326.6	347.2	363.7	371.8
72.5°	70.1	86.7	115.6	132.2	144.6	186.0	219.1	248.1	264.6	281.1	289.2
75°	49.6	62.0	82.6	95.1	103.4	132.2	161.1	181.7	194.2	206.6	219.1
77.5°	33.0	41.4	53.6	62.0	70.1	91.0	107.5	124.0	136.5	148.7	153.0
80°	20.6	29.0	37.1	41.4	45.5	57.9	74.5	82.6	91.0	99.1	103.4
82.5°	12.5	16.5	20.6	24.9	29.0	37.1	45.5	53.6	57.9	66.1	70.1
85°	4.1	8.4	8.4	12.5	12.5	20.6	24.9	29.0	33.0	37.1	41.4
87.5°	0.0	0.0	4.1	4.1	4.1	4.1	8.4	8.4	8.4	8.4	8.4
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: P880593

CATALOG NUMBER: LD4C60D010 EU4609030 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2	2686.2
2.5°	2698.7	2686.2	2678.1	2673.8	2702.7	2665.6	2682.2	2686.2
5°	2682.2	2669.7	2661.6	2657.3	2682.2	2649.1	2661.6	2669.7
7.5°	2657.3	2649.1	2636.7	2632.6	2657.3	2620.1	2636.7	2640.7
10°	2628.5	2616.1	2607.7	2603.6	2624.2	2587.1	2603.6	2603.6
12.5°	2591.2	2583.0	2566.5	2566.5	2583.0	2550.0	2562.2	2562.2
15°	2541.6	2533.5	2517.0	2517.0	2533.5	2500.2	2512.6	2512.6
17.5°	2500.2	2492.0	2479.6	2475.5	2492.0	2459.0	2471.5	2467.1
20°	2467.1	2459.0	2442.5	2442.5	2454.9	2421.9	2434.1	2434.1
22.5°	2438.4	2434.1	2417.6	2417.6	2434.1	2401.1	2409.4	2401.1
25°	2392.9	2388.6	2372.1	2376.4	2384.5	2351.5	2363.9	2355.6
27.5°	2318.5	2318.5	2301.9	2297.9	2310.1	2281.3	2289.5	2285.4
30°	2202.8	2206.9	2186.3	2186.3	2190.4	2165.4	2177.9	2173.8
32.5°	2045.7	2049.8	2033.3	2029.2	2041.7	2020.8	2029.2	2029.2
35°	1872.1	1876.2	1863.8	1863.8	1876.2	1863.8	1863.8	1859.7
37.5°	1698.6	1706.7	1698.6	1702.6	1711.0	1698.6	1706.7	1702.6
40°	1558.0	1566.4	1553.9	1562.1	1570.5	1558.0	1570.5	1562.1
42.5°	1429.9	1442.4	1434.0	1442.4	1450.5	1442.4	1450.5	1438.3
45°	1334.9	1343.2	1338.9	1343.2	1351.4	1347.3	1351.4	1347.3
47.5°	1243.9	1260.4	1252.3	1260.4	1272.8	1264.7	1272.8	1260.4
50°	1161.3	1173.7	1169.6	1177.8	1181.8	1177.8	1186.2	1173.7
52.5°	1053.8	1066.2	1062.1	1062.1	1070.3	1062.1	1070.3	1062.1
55°	913.5	917.5	917.5	921.6	917.5	913.5	917.5	909.1
57.5°	777.0	785.1	772.9	785.1	781.0	777.0	777.0	768.6
60°	690.0	702.5	694.4	702.5	698.4	698.4	698.4	694.4
62.5°	619.9	628.3	619.9	624.0	624.0	624.0	619.9	615.8
65°	541.4	553.8	545.4	549.7	545.4	541.4	545.4	541.4
67.5°	462.8	466.9	466.9	462.8	462.8	462.8	462.8	454.7
70°	376.2	380.2	376.2	384.3	380.2	376.2	380.2	371.8
72.5°	293.3	297.6	293.3	297.6	293.3	293.3	293.3	293.3
75°	219.1	223.2	223.2	223.2	223.2	223.2	215.0	223.2
77.5°	157.1	157.1	157.1	161.1	157.1	157.1	157.1	157.1
80°	107.5	107.5	107.5	111.6	107.5	111.6	107.5	111.6
82.5°	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
85°	37.1	41.4	41.4	37.1	37.1	37.1	37.1	37.1
87.5°	8.4	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)