

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: P879463

Luminaire Tested: **LD4C60D010 EU4609035 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: P879463
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: LD4C60D010 EU4609035 4LBDWWLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

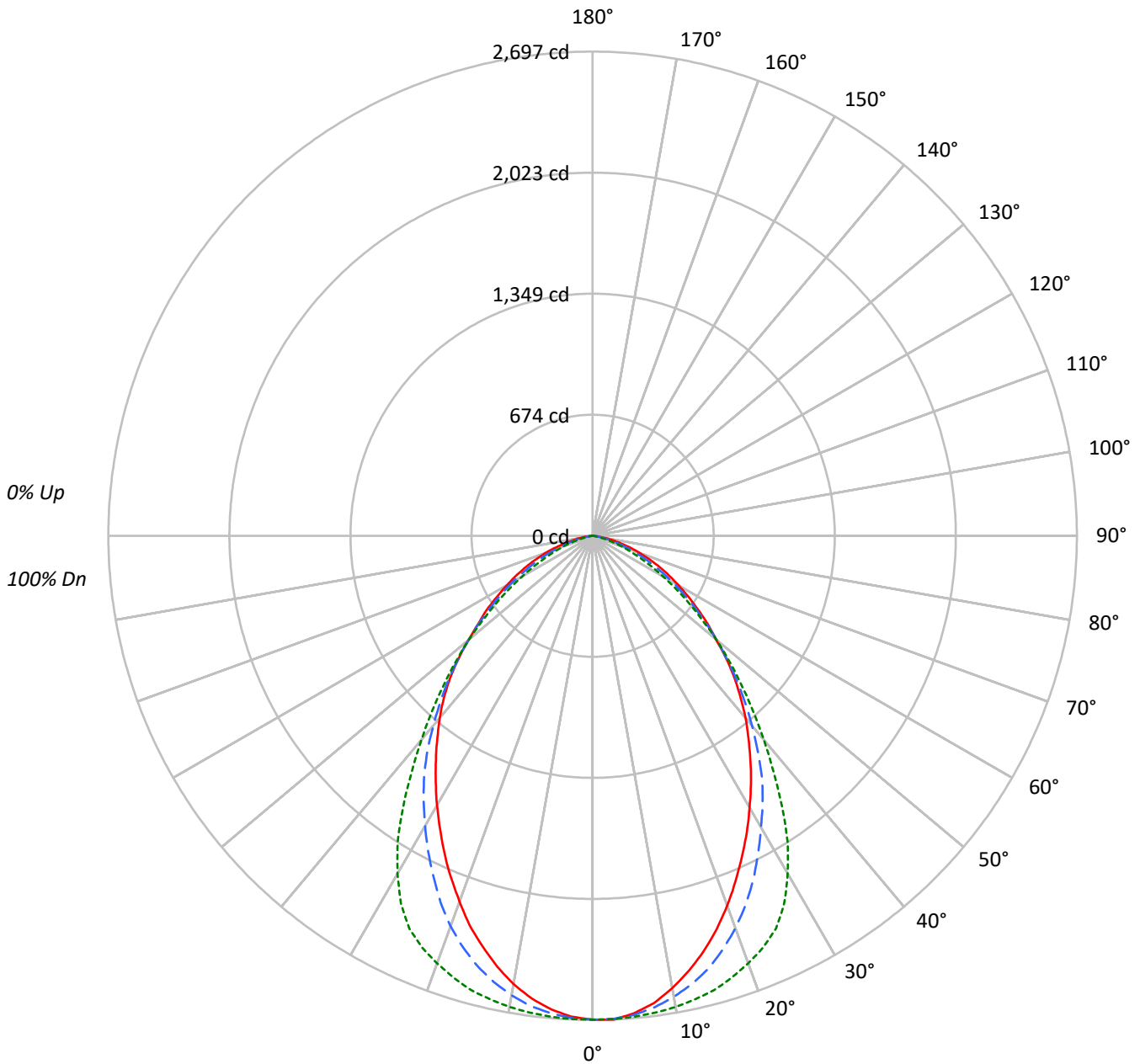
Lumens per Lamp: N/A
Luminaire Lumens: 4950.0 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
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	45	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°	331115	331115	331115
5°	329148	331640	326670
10°	319132	332455	316363
15°	304474	333180	301141
20°	286486	331290	283322
25°	266838	327362	264655
30°	247941	308274	245941
35°	229929	275732	228264
40°	212559	237786	212399
45°	193687	202964	195268
50°	171077	171650	172033
55°	153273	140336	153937
60°	135458	111453	135729
65°	119244	84970	118081
70°	98852	60812	98852
75°	77039	34936	74143
80°	49948	8561	47755
85°	18466	2819	14237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.0	5.1
10°-20°	700.0	14.1
20°-30°	978.5	19.8
30°-40°	1032.2	20.9
40°-50°	878.1	17.7
50°-60°	619.6	12.5
60°-70°	351.2	7.1
70°-80°	125.3	2.5
80°-90°	12.0	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°	1931.5	39.0
0°-40°	2963.7	59.9
0°-60°	4461.4	90.1
0°-90°	4950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4950.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2695	2695	2695	2695	2695	
5°	2669	2678	2689	2670	2649	251
15°	2394	2495	2620	2481	2368	671
25°	1968	2116	2415	2096	1952	906
35°	1533	1644	1838	1635	1522	958
45°	1115	1131	1168	1136	1124	857
55°	716	692	655	694	719	643
65°	410	352	292	353	406	406
75°	162	111	74	109	156	176
85°	13	5	2	5	10	23
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°	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2
2.5°	2697.3	2692.2	2692.2	2692.2	2692.2	2692.2	2692.2	2692.2	2692.2	2693.2	2693.2
5°	2669.0	2667.0	2666.0	2666.0	2666.0	2666.0	2667.0	2671.1	2673.1	2676.1	2678.1
7.5°	2624.7	2620.7	2622.7	2622.7	2624.7	2626.7	2629.7	2633.8	2639.8	2643.8	2648.9
10°	2558.2	2554.1	2559.2	2561.2	2567.2	2570.3	2575.3	2581.3	2593.4	2599.5	2607.6
12.5°	2480.6	2478.5	2480.6	2488.6	2494.7	2498.7	2504.7	2517.8	2529.9	2543.0	2557.2
15°	2393.9	2388.8	2391.9	2401.9	2412.0	2419.1	2424.1	2441.2	2457.4	2477.5	2494.7
17.5°	2297.1	2290.1	2298.1	2306.2	2319.3	2325.3	2332.4	2351.5	2373.7	2395.9	2415.0
20°	2191.3	2189.3	2194.3	2205.4	2218.5	2226.6	2232.6	2253.8	2272.9	2303.2	2325.3
22.5°	2081.4	2083.4	2087.5	2099.5	2108.6	2119.7	2128.8	2147.9	2170.1	2198.3	2226.6
25°	1968.5	1971.5	1978.6	1986.7	2001.8	2007.8	2018.9	2039.1	2058.2	2084.4	2115.7
27.5°	1859.7	1860.7	1868.7	1872.8	1886.9	1900.0	1905.0	1926.2	1948.4	1968.5	1995.7
30°	1747.8	1750.8	1755.8	1766.9	1781.0	1786.1	1792.1	1811.3	1828.4	1853.6	1874.8
32.5°	1640.9	1638.9	1645.0	1651.0	1667.1	1676.2	1679.2	1701.4	1716.5	1741.7	1761.9
35°	1533.1	1528.0	1537.1	1543.2	1557.3	1565.3	1569.4	1586.5	1600.6	1621.8	1644.0
37.5°	1425.2	1429.3	1433.3	1438.3	1445.4	1447.4	1459.5	1463.5	1481.7	1497.8	1509.9
40°	1325.4	1323.4	1321.4	1326.5	1335.5	1339.6	1340.6	1351.7	1355.7	1371.8	1380.9
42.5°	1218.6	1219.6	1218.6	1219.6	1224.7	1224.7	1227.7	1234.7	1237.8	1242.8	1253.9
45°	1114.8	1114.8	1111.8	1112.8	1113.8	1112.8	1113.8	1116.8	1122.9	1122.9	1130.9
47.5°	1006.9	1004.9	1009.0	1005.9	1003.9	1002.9	1005.9	1002.9	1009.0	1009.0	1011.0
50°	895.1	895.1	900.1	899.1	901.1	897.1	898.1	898.1	899.1	898.1	902.1
52.5°	808.4	806.4	804.3	799.3	801.3	797.3	797.3	798.3	795.3	794.3	789.2
55°	715.6	717.7	714.6	712.6	712.6	708.6	707.6	701.5	697.5	694.5	691.5
57.5°	632.0	634.0	633.0	627.9	621.9	622.9	620.9	614.8	605.8	599.7	594.7
60°	551.3	553.4	551.3	546.3	544.3	540.3	539.3	531.2	524.1	516.1	510.0
62.5°	478.8	478.8	477.8	470.7	465.7	466.7	461.6	455.6	446.5	435.4	426.4
65°	410.2	409.2	404.2	401.2	397.1	392.1	389.1	380.0	372.9	363.9	351.8
67.5°	341.7	338.7	336.7	333.6	324.6	323.6	319.5	311.5	301.4	294.3	284.2
70°	275.2	274.2	270.1	270.1	263.1	260.0	254.0	246.9	237.9	227.8	219.7
72.5°	217.7	215.7	211.7	207.6	201.6	199.6	194.5	187.5	179.4	169.3	159.3
75°	162.3	160.3	159.3	154.2	149.2	144.1	142.1	135.1	127.0	119.9	110.9
77.5°	113.9	111.9	108.9	105.8	102.8	99.8	96.8	90.7	83.7	77.6	69.5
80°	70.6	68.5	66.5	65.5	62.5	61.5	57.5	54.4	48.4	44.3	39.3
82.5°	36.3	36.3	34.3	33.3	31.2	30.2	29.2	26.2	23.2	20.2	17.1
85°	13.1	13.1	12.1	11.1	11.1	10.1	10.1	9.1	7.1	7.1	5.0
87.5°	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2
2.5°	2694.2	2693.2	2694.2	2694.2	2695.2	2695.2	2695.2	2694.2	2695.2	2694.2	2694.2
5°	2678.1	2681.1	2683.2	2685.2	2686.2	2687.2	2687.2	2688.2	2689.2	2689.2	2688.2
7.5°	2652.9	2659.0	2665.0	2669.0	2671.1	2673.1	2676.1	2678.1	2680.1	2679.1	2678.1
10°	2619.6	2629.7	2637.8	2645.9	2649.9	2652.9	2658.0	2662.0	2664.0	2665.0	2662.0
12.5°	2572.3	2586.4	2599.5	2612.6	2618.6	2622.7	2632.8	2639.8	2643.8	2643.8	2640.8
15°	2512.8	2533.0	2552.1	2569.3	2579.3	2585.4	2600.5	2610.6	2616.6	2619.6	2614.6
17.5°	2441.2	2464.4	2487.6	2509.8	2519.9	2528.9	2550.1	2564.2	2577.3	2579.3	2573.3
20°	2349.5	2378.8	2405.0	2432.2	2443.3	2457.4	2481.6	2504.7	2524.9	2534.0	2516.8
22.5°	2246.7	2279.0	2303.2	2336.4	2351.5	2366.7	2397.9	2427.1	2462.4	2481.6	2451.3
25°	2139.9	2167.1	2196.3	2228.6	2249.7	2265.9	2302.1	2339.4	2386.8	2415.0	2372.7
27.5°	2025.0	2049.2	2084.4	2119.7	2135.8	2156.0	2199.3	2239.7	2285.0	2310.2	2279.0
30°	1906.0	1936.3	1969.5	2001.8	2025.0	2044.1	2079.4	2113.7	2152.0	2173.1	2149.9
32.5°	1788.1	1817.3	1845.5	1880.8	1893.9	1911.1	1942.3	1971.5	2000.8	2019.9	1992.7
35°	1664.1	1690.3	1716.5	1740.7	1746.8	1766.9	1792.1	1809.3	1823.4	1838.5	1820.3
37.5°	1529.1	1549.2	1562.3	1588.5	1598.6	1601.6	1621.8	1633.9	1649.0	1652.0	1651.0
40°	1392.0	1410.1	1421.2	1437.3	1445.4	1445.4	1459.5	1470.6	1481.7	1482.7	1481.7
42.5°	1264.0	1273.0	1282.1	1292.2	1290.2	1302.3	1308.3	1313.4	1321.4	1321.4	1323.4
45°	1134.9	1142.0	1150.1	1152.1	1160.1	1160.1	1165.2	1167.2	1171.2	1168.2	1164.2
47.5°	1015.0	1018.0	1019.0	1028.1	1030.1	1023.1	1029.1	1030.1	1029.1	1029.1	1027.1
50°	901.1	903.1	902.1	899.1	900.1	903.1	900.1	896.1	898.1	898.1	900.1
52.5°	790.2	786.2	784.2	784.2	780.1	780.1	775.1	773.1	772.1	768.1	773.1
55°	688.4	682.4	673.3	671.3	668.3	667.3	661.2	656.2	654.2	655.2	654.2
57.5°	590.7	581.6	575.5	573.5	570.5	564.4	557.4	552.4	551.3	549.3	549.3
60°	502.0	491.9	482.8	473.7	474.7	470.7	463.7	460.6	457.6	453.6	456.6
62.5°	421.3	410.2	400.2	391.1	385.0	382.0	377.0	371.9	368.9	365.9	369.9
65°	341.7	332.6	321.5	312.5	309.4	306.4	301.4	293.3	292.3	292.3	294.3
67.5°	270.1	260.0	250.0	243.9	239.9	235.9	233.8	229.8	226.8	224.8	225.8
70°	207.6	197.6	189.5	183.4	180.4	179.4	172.4	171.4	170.3	169.3	168.3
72.5°	151.2	143.1	136.1	132.0	128.0	125.0	123.0	119.9	118.9	118.9	118.9
75°	103.8	97.8	89.7	84.7	82.7	79.6	76.6	74.6	72.6	73.6	73.6
77.5°	62.5	56.4	51.4	47.4	46.4	43.3	40.3	38.3	35.3	35.3	36.3
80°	34.3	29.2	25.2	22.2	20.2	19.2	16.1	15.1	13.1	12.1	12.1
82.5°	15.1	12.1	10.1	9.1	8.1	7.1	6.0	5.0	5.0	4.0	5.0
85°	5.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	1.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2
2.5°	2693.2	2693.2	2692.2	2692.2	2692.2	2690.2	2690.2	2689.2	2688.2	2687.2	2685.2
5°	2686.2	2685.2	2683.2	2682.1	2681.1	2678.1	2675.1	2673.1	2670.0	2666.0	2664.0
7.5°	2676.1	2673.1	2669.0	2667.0	2664.0	2656.9	2651.9	2646.9	2641.8	2634.8	2626.7
10°	2659.0	2652.9	2646.9	2642.8	2637.8	2628.7	2618.6	2610.6	2599.5	2589.4	2578.3
12.5°	2634.8	2627.7	2615.6	2609.6	2603.5	2590.4	2577.3	2560.2	2545.1	2531.0	2517.8
15°	2604.5	2591.4	2577.3	2569.3	2560.2	2539.0	2518.9	2500.7	2480.6	2463.4	2442.3
17.5°	2560.2	2541.0	2520.9	2511.8	2499.7	2475.5	2451.3	2426.1	2402.9	2381.8	2355.6
20°	2493.7	2472.5	2446.3	2432.2	2422.1	2389.8	2366.7	2338.4	2314.2	2288.0	2258.8
22.5°	2416.0	2386.8	2357.6	2337.4	2326.3	2294.1	2262.8	2237.6	2211.4	2181.2	2160.0
25°	2328.4	2292.1	2256.8	2236.6	2219.5	2185.2	2155.0	2128.8	2096.5	2070.3	2049.2
27.5°	2229.6	2188.2	2146.9	2126.8	2110.6	2073.3	2041.1	2013.9	1982.6	1959.4	1937.3
30°	2111.6	2074.4	2035.0	2018.9	1999.8	1961.5	1924.2	1900.0	1865.7	1841.5	1817.3
32.5°	1964.5	1940.3	1909.0	1886.9	1876.8	1841.5	1810.3	1781.0	1751.8	1732.7	1708.5
35°	1803.2	1782.0	1755.8	1743.7	1730.6	1708.5	1683.3	1658.1	1634.9	1616.7	1594.6
37.5°	1639.9	1618.8	1602.6	1589.5	1581.5	1561.3	1546.2	1527.0	1510.9	1493.8	1481.7
40°	1470.6	1464.5	1447.4	1441.4	1439.3	1417.2	1404.1	1388.9	1378.9	1368.8	1361.7
42.5°	1320.4	1310.3	1297.2	1298.2	1292.2	1280.1	1271.0	1260.9	1253.9	1248.8	1241.8
45°	1172.2	1164.2	1158.1	1163.2	1153.1	1149.1	1142.0	1141.0	1136.0	1126.9	1123.9
47.5°	1031.1	1030.1	1031.1	1028.1	1026.1	1024.1	1025.1	1020.0	1015.0	1012.0	1007.9
50°	902.1	903.1	905.1	908.2	901.1	904.1	903.1	902.1	902.1	899.1	901.1
52.5°	777.1	778.1	780.1	783.2	784.2	784.2	787.2	789.2	793.3	798.3	798.3
55°	659.2	666.3	670.3	675.3	672.3	678.3	681.4	690.4	693.5	693.5	697.5
57.5°	554.4	561.4	564.4	570.5	572.5	577.6	585.6	590.7	597.7	603.8	609.8
60°	458.6	461.6	469.7	478.8	476.8	488.9	494.9	503.0	512.0	516.1	524.1
62.5°	372.9	377.0	383.0	386.0	393.1	399.1	413.3	421.3	429.4	439.5	447.5
65°	296.3	300.4	306.4	312.5	315.5	324.6	331.6	345.7	352.8	363.9	372.9
67.5°	226.8	232.8	237.9	241.9	243.9	253.0	264.1	270.1	283.2	294.3	301.4
70°	169.3	174.4	180.4	179.4	183.4	190.5	198.6	207.6	217.7	227.8	235.9
72.5°	117.9	123.0	127.0	128.0	132.0	137.1	143.1	150.2	158.2	168.3	179.4
75°	74.6	75.6	79.6	81.6	83.7	89.7	94.7	101.8	108.9	116.9	124.0
77.5°	37.3	40.3	42.3	44.3	45.4	50.4	55.4	61.5	67.5	75.6	82.7
80°	14.1	15.1	18.1	19.2	21.2	24.2	28.2	31.2	36.3	42.3	46.4
82.5°	5.0	6.0	7.1	7.1	8.1	10.1	11.1	14.1	17.1	19.2	21.2
85°	2.0	2.0	2.0	2.0	2.0	3.0	3.0	4.0	5.0	6.0	6.0
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: P879463

CATALOG NUMBER: LD4C60D010 EU4609035 4LBDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2
2.5°	2684.2	2684.2	2683.2	2682.1	2682.1	2682.1	2681.1	2681.1
5°	2660.0	2656.9	2655.9	2653.9	2652.9	2651.9	2648.9	2648.9
7.5°	2620.7	2616.6	2613.6	2610.6	2606.5	2603.5	2603.5	2599.5
10°	2568.2	2560.2	2556.1	2552.1	2547.1	2541.0	2539.0	2536.0
12.5°	2504.7	2488.6	2484.6	2477.5	2469.5	2465.4	2458.4	2458.4
15°	2426.1	2409.0	2399.9	2395.9	2385.8	2378.8	2375.7	2367.7
17.5°	2334.4	2321.3	2307.2	2301.1	2290.1	2281.0	2276.9	2275.9
20°	2241.7	2220.5	2211.4	2202.4	2189.3	2181.2	2175.1	2167.1
22.5°	2134.8	2115.7	2102.6	2096.5	2085.4	2071.3	2061.2	2061.2
25°	2021.9	2004.8	1997.7	1984.6	1971.5	1966.5	1954.4	1952.4
27.5°	1914.1	1897.0	1882.8	1875.8	1860.7	1853.6	1843.5	1839.5
30°	1802.2	1782.0	1772.0	1771.0	1752.8	1745.8	1737.7	1733.7
32.5°	1690.3	1673.2	1663.1	1657.1	1649.0	1636.9	1629.8	1625.8
35°	1579.5	1568.4	1559.3	1552.2	1539.1	1533.1	1527.0	1522.0
37.5°	1463.5	1453.5	1449.4	1443.4	1437.3	1426.2	1424.2	1420.2
40°	1351.7	1338.6	1338.6	1334.5	1328.5	1327.5	1324.4	1324.4
42.5°	1234.7	1228.7	1227.7	1228.7	1224.7	1222.6	1219.6	1226.7
45°	1118.8	1121.8	1116.8	1117.8	1115.8	1119.8	1119.8	1123.9
47.5°	1012.0	1007.9	1010.0	1012.0	1015.0	1015.0	1014.0	1013.0
50°	898.1	902.1	906.1	901.1	903.1	904.1	899.1	900.1
52.5°	800.3	801.3	804.3	801.3	804.3	803.3	805.3	801.3
55°	705.6	705.6	709.6	710.6	711.6	714.6	715.6	718.7
57.5°	613.8	618.9	623.9	622.9	626.9	631.0	627.9	631.0
60°	534.2	538.2	543.3	545.3	548.3	550.3	550.3	552.4
62.5°	453.6	461.6	465.7	469.7	469.7	473.7	477.8	478.8
65°	381.0	390.1	393.1	396.1	398.1	402.2	407.2	406.2
67.5°	312.5	318.5	322.5	324.6	330.6	332.6	336.7	340.7
70°	244.9	253.0	256.0	260.0	265.1	269.1	273.2	275.2
72.5°	187.5	193.5	195.5	199.6	204.6	208.6	210.7	213.7
75°	131.0	141.1	142.1	145.1	149.2	154.2	157.2	156.2
77.5°	86.7	93.7	94.7	98.8	102.8	106.8	107.9	108.9
80°	51.4	55.4	56.4	58.5	61.5	63.5	65.5	67.5
82.5°	24.2	26.2	28.2	28.2	30.2	32.3	32.3	33.3
85°	8.1	8.1	9.1	9.1	10.1	10.1	11.1	10.1
87.5°	1.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0
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)