

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: P879462

Luminaire Tested: **LD4C60D010 EU4609035 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: P879462
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: LD4C60D010 EU4609035 4LBLDWWH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

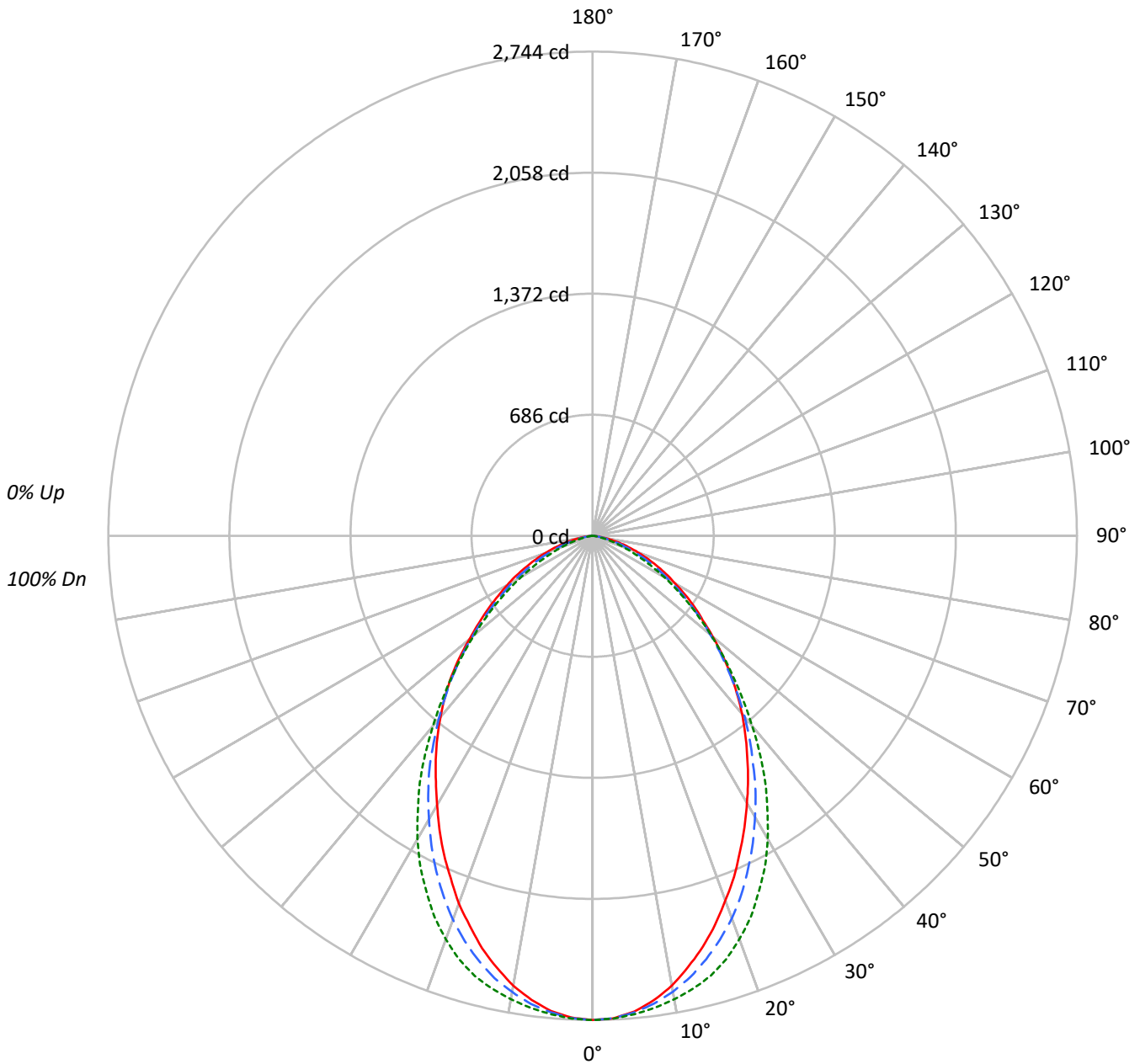
Lumens per Lamp: N/A
Luminaire Lumens: 4909.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	337171	337171	337171
5°	333736	335611	333366
10°	322887	332692	323012
15°	306763	328436	307793
20°	287532	318098	289898
25°	267787	301811	270240
30°	248069	281533	249927
35°	228864	255920	232343
40°	211100	225486	214981
45°	191219	195424	197005
50°	169529	167407	173753
55°	151110	140979	154580
60°	132239	114426	137203
65°	115726	88488	119825
70°	97379	64800	102444
75°	76090	42103	80362
80°	49948	22074	54901
85°	17056	10008	22694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.2	5.2
10°-20°	700.0	14.3
20°-30°	962.8	19.6
30°-40°	1004.4	20.5
40°-50°	859.3	17.5
50°-60°	614.7	12.5
60°-70°	356.7	7.3
70°-80°	137.5	2.8
80°-90°	17.5	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°	1919.0	39.1
0°-40°	2923.4	59.6
0°-60°	4397.4	89.6
0°-90°	4909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4909.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2744	2744	2744	2744	2744	
5°	2706	2711	2721	2711	2703	255
15°	2412	2484	2582	2494	2420	676
25°	1976	2084	2226	2098	1994	909
35°	1526	1586	1706	1612	1549	956
45°	1101	1092	1125	1119	1134	848
55°	706	670	658	688	722	631
65°	398	352	304	364	412	397
75°	160	120	89	127	169	172
85°	12	9	7	10	16	24
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°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	2737.5	2735.5	2736.5	2736.5	2736.5	2735.5	2737.5	2737.5	2736.5	2736.5	2736.5
5°	2706.2	2704.2	2705.2	2706.2	2706.2	2706.2	2707.2	2708.3	2709.3	2710.3	2711.3
7.5°	2655.8	2652.8	2655.8	2659.9	2659.9	2660.9	2661.9	2662.9	2665.9	2671.0	2674.0
10°	2588.3	2588.3	2589.3	2592.3	2597.4	2596.4	2599.4	2604.4	2610.5	2617.5	2622.6
12.5°	2502.6	2504.7	2507.7	2510.7	2515.7	2518.8	2523.8	2529.9	2539.9	2550.0	2561.1
15°	2411.9	2412.9	2413.9	2421.0	2426.0	2433.1	2437.1	2449.2	2458.3	2472.4	2484.5
17.5°	2310.1	2309.1	2312.1	2318.2	2330.3	2333.3	2338.3	2351.5	2364.6	2383.7	2399.8
20°	2199.3	2205.3	2209.3	2217.4	2224.5	2232.5	2236.5	2252.7	2267.8	2285.9	2307.1
22.5°	2094.4	2089.4	2096.4	2105.5	2111.6	2117.6	2124.7	2141.8	2157.9	2180.1	2201.3
25°	1975.5	1978.5	1983.6	1990.6	1998.7	2006.7	2014.8	2033.0	2042.0	2065.2	2084.4
27.5°	1862.6	1867.7	1869.7	1878.7	1885.8	1891.8	1895.9	1917.0	1925.1	1945.3	1964.4
30°	1748.7	1753.8	1753.8	1763.8	1768.9	1774.9	1785.0	1799.1	1811.2	1825.3	1839.4
32.5°	1638.9	1638.9	1642.9	1652.0	1657.0	1664.1	1667.1	1677.2	1689.3	1703.4	1718.5
35°	1526.0	1529.0	1533.0	1533.0	1542.1	1546.1	1550.2	1560.2	1568.3	1574.4	1586.4
37.5°	1422.2	1422.2	1419.1	1424.2	1430.2	1429.2	1435.3	1440.3	1445.3	1452.4	1462.5
40°	1316.3	1316.3	1312.3	1315.3	1319.4	1318.3	1316.3	1321.4	1325.4	1330.4	1340.5
42.5°	1208.5	1206.5	1205.5	1205.5	1207.5	1205.5	1207.5	1208.5	1208.5	1208.5	1214.5
45°	1100.6	1105.7	1099.6	1097.6	1094.6	1091.6	1090.6	1091.6	1095.6	1090.6	1091.6
47.5°	994.8	996.8	992.8	989.8	986.7	984.7	986.7	980.7	982.7	983.7	979.7
50°	887.0	882.9	882.9	879.9	880.9	879.9	877.9	875.9	875.9	870.8	867.8
52.5°	787.2	789.2	791.2	784.2	785.2	780.1	781.1	776.1	776.1	770.0	772.1
55°	705.5	702.5	702.5	699.5	698.5	693.4	692.4	689.4	682.4	678.3	670.3
57.5°	620.9	619.9	615.8	616.8	610.8	609.8	607.8	602.7	597.7	592.7	583.6
60°	538.2	539.2	539.2	537.2	534.2	529.2	530.2	523.1	516.0	507.0	498.9
62.5°	469.7	466.7	465.7	463.6	457.6	457.6	452.6	447.5	440.5	431.4	424.3
65°	398.1	399.1	396.1	393.1	387.0	386.0	382.0	378.0	370.9	361.8	351.8
67.5°	333.6	331.6	330.6	327.6	321.5	320.5	317.5	308.4	302.4	293.3	285.2
70°	271.1	269.1	270.1	265.1	259.0	256.0	255.0	247.9	238.9	231.8	223.8
72.5°	212.7	212.7	211.7	206.6	203.6	201.6	197.6	189.5	184.4	176.4	170.3
75°	160.3	159.2	157.2	154.2	150.2	148.2	146.1	141.1	134.1	125.0	119.9
77.5°	110.9	111.9	109.9	108.9	103.8	100.8	99.8	96.8	90.7	84.7	79.6
80°	70.6	69.5	68.5	66.5	65.5	64.5	61.5	59.5	53.4	50.4	47.4
82.5°	38.3	36.3	36.3	35.3	33.3	32.3	31.2	29.2	28.2	26.2	24.2
85°	12.1	13.1	12.1	12.1	12.1	11.1	11.1	11.1	10.1	10.1	9.1
87.5°	1.0	2.0	1.0	1.0	2.0	1.0	1.0	2.0	1.0	1.0	2.0
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°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	2736.5	2737.5	2737.5	2738.5	2738.5	2738.5	2738.5	2738.5	2738.5	2738.5	2738.5
5°	2714.3	2714.3	2716.3	2718.3	2718.3	2718.3	2719.3	2721.4	2721.4	2721.4	2720.3
7.5°	2678.0	2682.0	2686.1	2690.1	2691.1	2692.1	2694.1	2698.2	2698.2	2698.2	2698.2
10°	2630.6	2639.7	2644.8	2650.8	2653.8	2655.8	2661.9	2662.9	2665.9	2666.9	2665.9
12.5°	2570.2	2582.3	2593.3	2603.4	2607.5	2611.5	2617.5	2623.6	2626.6	2629.6	2628.6
15°	2502.6	2515.7	2532.9	2544.0	2552.0	2558.1	2567.1	2575.2	2580.2	2582.3	2582.3
17.5°	2421.0	2437.1	2455.3	2473.4	2478.4	2488.5	2498.6	2509.7	2515.7	2516.7	2515.7
20°	2330.3	2348.4	2363.5	2381.7	2392.8	2397.8	2411.9	2426.0	2432.1	2433.1	2432.1
22.5°	2222.4	2239.6	2259.7	2278.9	2288.0	2297.0	2312.1	2326.3	2334.3	2340.4	2334.3
25°	2102.5	2126.7	2145.8	2162.0	2175.1	2184.1	2203.3	2214.4	2227.5	2226.5	2227.5
27.5°	1984.6	2004.7	2025.9	2045.0	2053.1	2063.2	2078.3	2096.4	2107.5	2114.6	2113.6
30°	1863.6	1879.7	1897.9	1915.0	1928.1	1936.2	1958.4	1966.4	1980.5	1984.6	1981.5
32.5°	1735.6	1746.7	1764.8	1788.0	1793.1	1801.1	1815.2	1835.4	1840.4	1842.5	1843.5
35°	1599.6	1620.7	1635.8	1649.9	1654.0	1661.0	1677.2	1692.3	1697.3	1706.4	1702.4
37.5°	1473.6	1485.7	1492.7	1506.8	1518.9	1525.0	1533.0	1543.1	1553.2	1557.2	1556.2
40°	1347.6	1353.6	1359.7	1374.8	1375.8	1375.8	1387.9	1402.0	1402.0	1406.0	1406.0
42.5°	1218.6	1219.6	1227.6	1235.7	1237.7	1239.7	1251.8	1253.8	1259.9	1262.9	1266.9
45°	1093.6	1099.6	1104.7	1105.7	1110.7	1111.7	1114.7	1117.8	1126.8	1124.8	1126.8
47.5°	979.7	982.7	985.7	985.7	988.8	987.8	992.8	989.8	995.8	997.8	1000.9
50°	867.8	872.8	869.8	871.8	870.8	873.9	871.8	871.8	871.8	875.9	878.9
52.5°	765.0	766.0	763.0	764.0	764.0	762.0	764.0	763.0	762.0	762.0	763.0
55°	670.3	666.2	664.2	660.2	655.1	661.2	658.2	656.1	660.2	658.2	660.2
57.5°	578.5	573.5	569.5	567.5	560.4	564.4	560.4	558.4	558.4	558.4	563.4
60°	491.9	486.8	481.8	475.7	474.7	472.7	470.7	465.7	466.7	465.7	467.7
62.5°	416.3	406.2	399.1	394.1	393.1	390.1	387.0	382.0	383.0	383.0	384.0
65°	346.7	335.6	325.6	318.5	318.5	313.5	308.4	308.4	302.4	304.4	305.4
67.5°	277.2	268.1	258.0	253.0	250.0	245.9	242.9	240.9	237.9	237.9	239.9
70°	214.7	205.6	200.6	192.5	191.5	188.5	184.4	181.4	180.4	180.4	179.4
72.5°	162.3	154.2	148.2	143.1	140.1	137.1	133.0	132.0	130.0	130.0	132.0
75°	112.9	107.8	102.8	97.8	95.8	94.7	91.7	89.7	89.7	88.7	89.7
77.5°	75.6	70.6	65.5	63.5	61.5	59.5	58.5	57.5	54.4	54.4	54.4
80°	43.3	41.3	39.3	36.3	36.3	35.3	33.3	32.3	31.2	31.2	31.2
82.5°	22.2	21.2	19.2	18.1	18.1	18.1	17.1	17.1	16.1	16.1	16.1
85°	9.1	8.1	7.1	7.1	7.1	7.1	7.1	7.1	8.1	7.1	8.1
87.5°	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	2738.5	2737.5	2737.5	2737.5	2737.5	2737.5	2736.5	2736.5	2735.5	2735.5	2735.5
5°	2721.4	2720.3	2719.3	2718.3	2717.3	2716.3	2715.3	2714.3	2711.3	2710.3	2708.3
7.5°	2697.2	2695.1	2692.1	2691.1	2689.1	2686.1	2682.0	2680.0	2676.0	2671.0	2668.9
10°	2664.9	2660.9	2657.9	2652.8	2651.8	2647.8	2637.7	2632.7	2625.6	2619.6	2612.5
12.5°	2625.6	2621.6	2614.5	2607.5	2603.4	2594.4	2585.3	2577.2	2568.2	2555.0	2545.0
15°	2577.2	2571.2	2557.1	2555.0	2549.0	2534.9	2522.8	2507.7	2493.6	2479.5	2467.4
17.5°	2512.7	2499.6	2492.6	2483.5	2476.4	2458.3	2445.2	2428.1	2408.9	2392.8	2375.6
20°	2428.1	2413.9	2401.8	2396.8	2387.7	2371.6	2355.5	2334.3	2315.2	2295.0	2279.9
22.5°	2327.3	2318.2	2300.0	2294.0	2282.9	2266.8	2247.6	2227.5	2209.3	2187.2	2167.0
25°	2219.4	2206.3	2192.2	2180.1	2172.0	2156.9	2132.7	2117.6	2097.5	2073.3	2058.1
27.5°	2104.5	2089.4	2069.2	2061.2	2054.1	2034.0	2013.8	1994.7	1978.5	1957.4	1944.3
30°	1971.5	1960.4	1947.3	1937.2	1927.1	1911.0	1892.9	1870.7	1853.5	1843.5	1825.3
32.5°	1836.4	1827.3	1810.2	1805.2	1794.1	1781.0	1767.9	1751.7	1733.6	1718.5	1704.4
35°	1692.3	1683.2	1671.1	1662.0	1658.0	1648.9	1634.8	1620.7	1611.6	1594.5	1587.5
37.5°	1548.1	1545.1	1533.0	1524.0	1520.9	1509.8	1502.8	1492.7	1479.6	1475.6	1467.5
40°	1400.0	1398.0	1390.9	1389.9	1383.9	1380.8	1370.8	1362.7	1356.6	1353.6	1348.6
42.5°	1263.9	1261.9	1255.9	1256.9	1250.8	1248.8	1247.8	1240.7	1235.7	1229.6	1230.7
45°	1129.9	1127.8	1123.8	1121.8	1124.8	1123.8	1121.8	1118.8	1118.8	1119.8	1116.8
47.5°	1000.9	1002.9	998.8	1000.9	1000.9	997.8	997.8	1001.9	1002.9	1004.9	1006.9
50°	878.9	884.9	882.9	886.0	887.0	888.0	884.9	890.0	889.0	898.0	896.0
52.5°	768.0	769.0	773.1	774.1	775.1	776.1	781.1	785.2	786.2	790.2	797.3
55°	661.2	662.2	670.3	670.3	675.3	676.3	683.4	685.4	688.4	699.5	701.5
57.5°	560.4	566.4	570.5	572.5	575.5	580.6	584.6	593.7	598.7	605.8	612.8
60°	469.7	476.7	481.8	483.8	487.8	493.9	498.9	509.0	518.1	526.1	531.2
62.5°	386.0	392.1	396.1	403.2	403.2	408.2	420.3	426.3	436.4	443.5	452.6
65°	311.4	315.5	322.5	322.5	326.6	334.6	344.7	353.8	363.9	373.9	383.0
67.5°	243.9	246.9	251.0	255.0	257.0	267.1	275.2	288.3	297.3	304.4	315.5
70°	184.4	186.5	191.5	195.5	198.6	205.6	214.7	223.8	232.8	240.9	252.0
72.5°	132.0	136.1	141.1	144.1	146.1	151.2	160.3	169.3	177.4	185.5	191.5
75°	90.7	93.7	95.8	98.8	101.8	105.8	111.9	117.9	127.0	135.1	142.1
77.5°	56.4	59.5	62.5	63.5	64.5	68.5	72.6	78.6	84.7	90.7	95.8
80°	33.3	34.3	35.3	36.3	38.3	41.3	43.3	47.4	51.4	55.4	60.5
82.5°	17.1	18.1	19.2	19.2	19.2	20.2	23.2	25.2	26.2	28.2	31.2
85°	7.1	7.1	7.1	8.1	8.1	9.1	9.1	10.1	10.1	11.1	12.1
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P879462

CATALOG NUMBER: LD4C60D010 EU4609035 4LBDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	2734.5	2734.5	2734.5	2733.4	2734.5	2734.5	2734.5	2733.4
5°	2708.3	2706.2	2706.2	2705.2	2704.2	2704.2	2705.2	2703.2
7.5°	2664.9	2661.9	2659.9	2659.9	2658.9	2657.9	2657.9	2652.8
10°	2608.5	2602.4	2602.4	2600.4	2592.3	2591.3	2589.3	2589.3
12.5°	2537.9	2530.9	2526.8	2521.8	2516.7	2512.7	2511.7	2507.7
15°	2454.3	2445.2	2438.1	2436.1	2428.1	2422.0	2422.0	2420.0
17.5°	2363.5	2349.4	2344.4	2339.4	2328.3	2327.3	2325.2	2316.2
20°	2260.7	2247.6	2240.6	2235.5	2228.5	2218.4	2216.4	2217.4
22.5°	2152.9	2134.8	2128.7	2123.7	2116.6	2107.5	2107.5	2100.5
25°	2041.0	2024.9	2018.8	2012.8	2001.7	1997.7	1992.6	1993.6
27.5°	1927.1	1912.0	1907.0	1895.9	1888.8	1883.8	1878.7	1878.7
30°	1808.2	1800.1	1792.1	1791.1	1776.9	1770.9	1765.9	1761.8
32.5°	1693.3	1683.2	1679.2	1675.1	1668.1	1660.0	1659.0	1652.0
35°	1580.4	1570.3	1565.3	1561.3	1553.2	1550.2	1547.1	1549.2
37.5°	1461.5	1459.5	1456.4	1451.4	1446.3	1445.3	1441.3	1446.3
40°	1344.6	1343.5	1339.5	1340.5	1340.5	1338.5	1340.5	1340.5
42.5°	1231.7	1231.7	1227.6	1229.6	1230.7	1232.7	1235.7	1237.7
45°	1121.8	1120.8	1121.8	1123.8	1121.8	1126.8	1130.9	1133.9
47.5°	1008.9	1009.9	1014.0	1015.0	1017.0	1024.0	1024.0	1024.0
50°	901.1	906.1	904.1	910.1	909.1	913.2	909.1	909.1
52.5°	798.3	803.3	804.3	805.3	811.4	812.4	812.4	811.4
55°	706.5	713.6	710.6	715.6	718.6	720.7	723.7	721.7
57.5°	621.9	624.9	627.9	628.9	633.0	635.0	637.0	635.0
60°	538.2	544.3	549.3	550.3	552.3	554.3	555.4	558.4
62.5°	459.6	469.7	471.7	472.7	477.7	480.8	482.8	484.8
65°	390.1	397.1	402.2	405.2	409.2	409.2	412.2	412.2
67.5°	322.5	329.6	332.6	334.6	340.7	341.7	346.7	346.7
70°	261.0	266.1	268.1	271.1	277.2	281.2	283.2	285.2
72.5°	201.6	207.6	210.7	214.7	218.7	221.7	222.7	225.8
75°	147.2	156.2	157.2	161.3	164.3	168.3	170.3	169.3
77.5°	102.8	105.8	109.9	111.9	114.9	117.9	120.9	120.9
80°	63.5	67.5	68.5	69.5	73.6	75.6	77.6	77.6
82.5°	33.3	35.3	37.3	38.3	40.3	40.3	41.3	42.3
85°	13.1	14.1	14.1	14.1	15.1	16.1	16.1	16.1
87.5°	2.0	3.0	2.0	2.0	3.0	3.0	3.0	3.0
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)