

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: P879457

Luminaire Tested: **LD4C55D010 EU4559050 4LBDWWLI**

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: P879457
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: LD4C55D010 EU4559050 4LBLDWWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

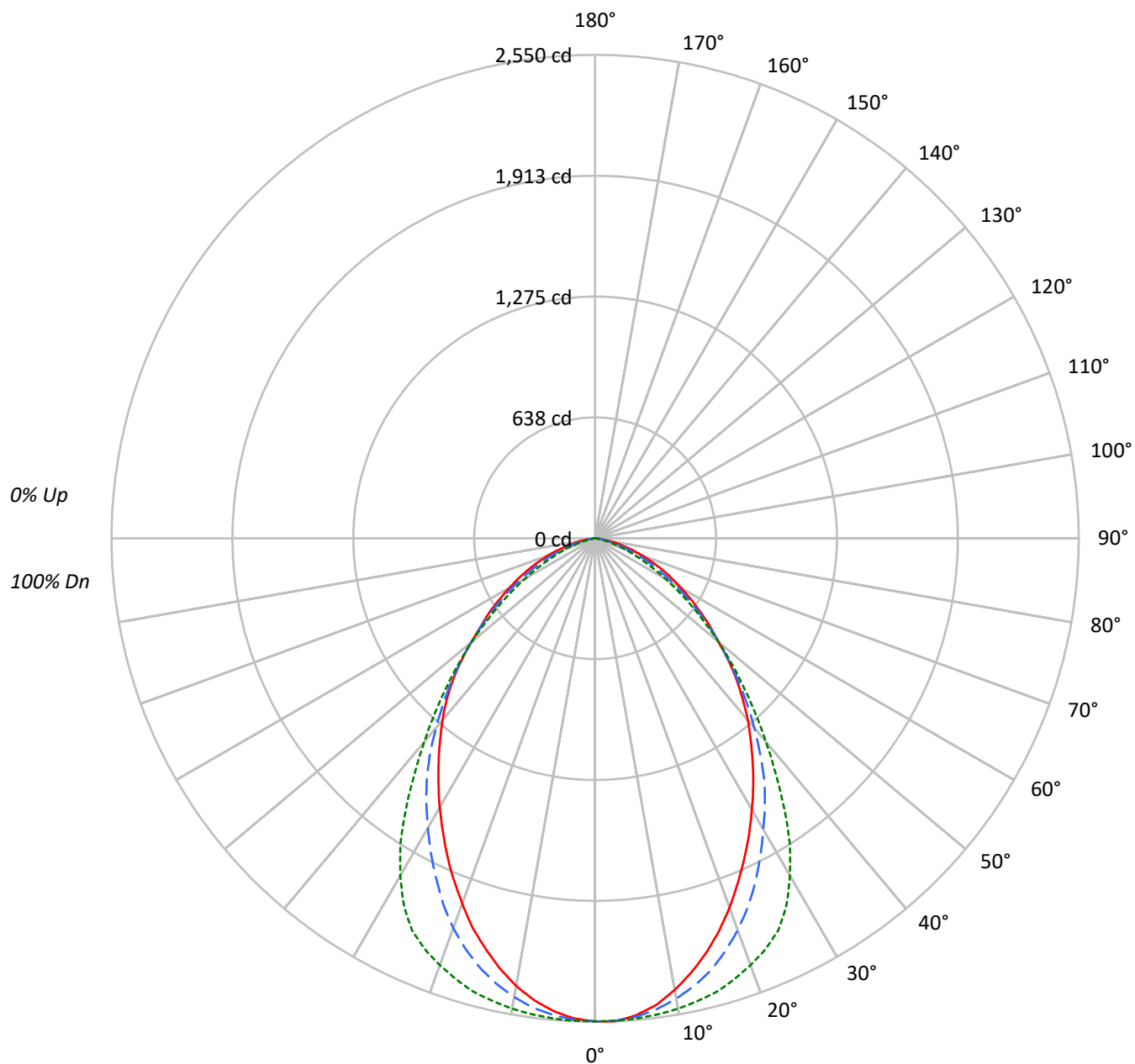
Lumens per Lamp: N/A
Luminaire Lumens: 4680.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	74	93	84	78	73		82	76	72		79	74	70		77	73	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	45		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	39	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	313055	313055	313055
5°	311205	313548	308850
10°	301717	314317	299110
15°	287863	315017	284709
20°	270850	313222	267869
25°	252279	309510	250219
30°	234408	291463	232521
35°	217391	260689	215816
40°	200980	224812	200820
45°	183123	191897	184617
50°	161731	162285	162648
55°	144920	132668	145541
60°	128087	105359	128308
65°	112761	80348	111627
70°	93464	57508	93464
75°	72814	33037	70109
80°	47189	8065	45138
85°	17479	2678	13391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	5.1
10°-20°	661.8	14.1
20°-30°	925.1	19.8
30°-40°	975.9	20.9
40°-50°	830.2	17.7
50°-60°	585.8	12.5
60°-70°	332.1	7.1
70°-80°	118.5	2.5
80°-90°	11.4	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°	1826.2	39.0
0°-40°	2802.1	59.9
0°-60°	4218.1	90.1
0°-90°	4680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4680.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2548	2548	2548	2548	2548	
5°	2524	2532	2542	2524	2504	238
15°	2263	2359	2477	2345	2238	635
25°	1861	2000	2283	1982	1846	856
35°	1450	1554	1738	1546	1439	906
45°	1054	1069	1104	1074	1063	810
55°	677	654	619	656	680	608
65°	388	333	276	334	384	384
75°	153	105	70	103	148	166
85°	12	5	2	5	10	22
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°	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2
2.5°	2550.1	2545.4	2545.4	2545.4	2545.4	2545.4	2545.4	2545.4	2545.4	2546.3	2546.3
5°	2523.5	2521.5	2520.6	2520.6	2520.6	2520.6	2521.5	2525.4	2527.3	2530.1	2532.0
7.5°	2481.5	2477.7	2479.6	2479.6	2481.5	2483.4	2486.3	2490.1	2495.8	2499.6	2504.4
10°	2418.6	2414.8	2419.6	2421.5	2427.2	2430.1	2434.8	2440.5	2452.0	2457.7	2465.3
12.5°	2345.3	2343.3	2345.3	2352.9	2358.6	2362.4	2368.1	2380.5	2391.9	2404.3	2417.7
15°	2263.3	2258.5	2261.4	2270.9	2280.4	2287.1	2291.9	2308.1	2323.3	2342.4	2358.6
17.5°	2171.8	2165.1	2172.8	2180.4	2192.8	2198.5	2205.2	2223.3	2244.2	2265.2	2283.3
20°	2071.7	2069.8	2074.6	2085.1	2097.5	2105.1	2110.8	2130.8	2148.9	2177.5	2198.5
22.5°	1967.9	1969.8	1973.6	1985.0	1993.6	2004.1	2012.7	2030.8	2051.7	2078.4	2105.1
25°	1861.1	1864.0	1870.7	1878.3	1892.6	1898.3	1908.8	1927.9	1946.0	1970.7	2000.3
27.5°	1758.2	1759.2	1766.8	1770.6	1784.0	1796.3	1801.1	1821.1	1842.1	1861.1	1886.9
30°	1652.4	1655.3	1660.1	1670.6	1683.9	1688.7	1694.4	1712.5	1728.7	1752.5	1772.5
32.5°	1551.4	1549.5	1555.2	1561.0	1576.2	1584.8	1587.6	1608.6	1622.9	1646.7	1665.8
35°	1449.5	1444.7	1453.3	1459.0	1472.3	1480.0	1483.8	1500.0	1513.3	1533.3	1554.3
37.5°	1347.5	1351.3	1355.1	1359.9	1366.6	1368.5	1379.9	1383.7	1400.9	1416.1	1427.5
40°	1253.2	1251.2	1249.3	1254.1	1262.7	1266.5	1267.4	1277.9	1281.7	1297.0	1305.6
42.5°	1152.1	1153.1	1152.1	1153.1	1157.9	1157.9	1160.7	1167.4	1170.2	1175.0	1185.5
45°	1054.0	1054.0	1051.1	1052.1	1053.0	1052.1	1053.0	1055.9	1061.6	1061.6	1069.2
47.5°	952.0	950.1	953.9	951.1	949.2	948.2	951.1	948.2	953.9	953.9	955.8
50°	846.2	846.2	851.0	850.0	852.0	848.1	849.1	849.1	850.0	849.1	852.9
52.5°	764.3	762.4	760.5	755.7	757.6	753.8	753.8	754.7	751.9	750.9	746.2
55°	676.6	678.5	675.7	673.7	673.7	669.9	669.0	663.3	659.5	656.6	653.7
57.5°	597.5	599.4	598.5	593.7	588.0	588.9	587.0	581.3	572.7	567.0	562.3
60°	521.3	523.2	521.3	516.5	514.6	510.8	509.8	502.2	495.5	487.9	482.2
62.5°	452.7	452.7	451.7	445.0	440.3	441.2	436.5	430.7	422.2	411.7	403.1
65°	387.9	386.9	382.1	379.3	375.5	370.7	367.8	359.3	352.6	344.0	332.6
67.5°	323.1	320.2	318.3	315.4	306.9	305.9	302.1	294.5	284.9	278.3	268.7
70°	260.2	259.2	255.4	255.4	248.7	245.9	240.1	233.5	224.9	215.4	207.7
72.5°	205.8	203.9	200.1	196.3	190.6	188.7	183.9	177.3	169.6	160.1	150.6
75°	153.4	151.5	150.6	145.8	141.0	136.3	134.4	127.7	120.1	113.4	104.8
77.5°	107.7	105.8	102.9	100.1	97.2	94.3	91.5	85.8	79.1	73.4	65.8
80°	66.7	64.8	62.9	61.9	59.1	58.1	54.3	51.5	45.7	41.9	37.2
82.5°	34.3	34.3	32.4	31.4	29.5	28.6	27.6	24.8	21.9	19.1	16.2
85°	12.4	12.4	11.4	10.5	10.5	9.5	9.5	8.6	6.7	6.7	4.8
87.5°	1.0	1.0	1.9	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°	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2
2.5°	2547.3	2546.3	2547.3	2547.3	2548.2	2548.2	2548.2	2547.3	2548.2	2547.3	2547.3
5°	2532.0	2534.9	2536.8	2538.7	2539.7	2540.6	2540.6	2541.6	2542.5	2542.5	2541.6
7.5°	2508.2	2513.9	2519.6	2523.5	2525.4	2527.3	2530.1	2532.0	2533.9	2533.0	2532.0
10°	2476.8	2486.3	2493.9	2501.5	2505.3	2508.2	2513.0	2516.8	2518.7	2519.6	2516.8
12.5°	2432.0	2445.3	2457.7	2470.1	2475.8	2479.6	2489.1	2495.8	2499.6	2499.6	2496.8
15°	2375.7	2394.8	2412.9	2429.1	2438.6	2444.4	2458.7	2468.2	2473.9	2476.8	2472.0
17.5°	2308.1	2330.0	2351.9	2372.9	2382.4	2391.0	2411.0	2424.3	2436.7	2438.6	2432.9
20°	2221.4	2249.0	2273.8	2299.5	2310.0	2323.3	2346.2	2368.1	2387.2	2395.8	2379.6
22.5°	2124.2	2154.7	2177.5	2209.0	2223.3	2237.6	2267.1	2294.7	2328.1	2346.2	2317.6
25°	2023.1	2048.9	2076.5	2107.0	2127.0	2142.3	2176.6	2211.8	2256.6	2283.3	2243.3
27.5°	1914.5	1937.4	1970.7	2004.1	2019.3	2038.4	2079.4	2117.5	2160.4	2184.2	2154.7
30°	1802.1	1830.6	1862.1	1892.6	1914.5	1932.6	1966.0	1998.4	2034.6	2054.6	2032.7
32.5°	1690.6	1718.2	1744.9	1778.2	1790.6	1806.8	1836.4	1864.0	1891.6	1909.7	1884.0
35°	1573.3	1598.1	1622.9	1645.8	1651.5	1670.6	1694.4	1710.6	1723.9	1738.2	1721.1
37.5°	1445.7	1464.7	1477.1	1501.9	1511.4	1514.3	1533.3	1544.8	1559.1	1561.9	1561.0
40°	1316.0	1333.2	1343.7	1358.9	1366.6	1366.6	1379.9	1390.4	1400.9	1401.8	1400.9
42.5°	1195.0	1203.6	1212.2	1221.7	1219.8	1231.2	1237.0	1241.7	1249.3	1249.3	1251.2
45°	1073.0	1079.7	1087.3	1089.2	1096.9	1096.9	1101.6	1103.5	1107.3	1104.5	1100.7
47.5°	959.6	962.5	963.4	972.0	973.9	967.3	973.0	973.9	973.0	973.0	971.1
50°	852.0	853.9	852.9	850.0	851.0	853.9	851.0	847.2	849.1	849.1	851.0
52.5°	747.1	743.3	741.4	741.4	737.6	737.6	732.8	730.9	730.0	726.2	730.9
55°	650.9	645.2	636.6	634.7	631.8	630.9	625.1	620.4	618.5	619.4	618.5
57.5°	558.4	549.9	544.1	542.2	539.4	533.7	527.0	522.2	521.3	519.4	519.4
60°	474.6	465.0	456.5	447.9	448.8	445.0	438.4	435.5	432.6	428.8	431.7
62.5°	398.3	387.9	378.3	369.8	364.0	361.2	356.4	351.6	348.8	345.9	349.7
65°	323.1	314.5	304.0	295.4	292.6	289.7	284.9	277.3	276.4	276.4	278.3
67.5°	255.4	245.9	236.3	230.6	226.8	223.0	221.1	217.3	214.4	212.5	213.5
70°	196.3	186.8	179.2	173.4	170.6	169.6	163.0	162.0	161.1	160.1	159.1
72.5°	142.9	135.3	128.7	124.8	121.0	118.2	116.3	113.4	112.5	112.5	112.5
75°	98.2	92.4	84.8	80.0	78.1	75.3	72.4	70.5	68.6	69.6	69.6
77.5°	59.1	53.4	48.6	44.8	43.8	41.0	38.1	36.2	33.4	33.4	34.3
80°	32.4	27.6	23.8	21.0	19.1	18.1	15.2	14.3	12.4	11.4	11.4
82.5°	14.3	11.4	9.5	8.6	7.6	6.7	5.7	4.8	4.8	3.8	4.8
85°	4.8	3.8	2.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2
2.5°	2546.3	2546.3	2545.4	2545.4	2545.4	2543.5	2543.5	2542.5	2541.6	2540.6	2538.7
5°	2539.7	2538.7	2536.8	2535.8	2534.9	2532.0	2529.2	2527.3	2524.4	2520.6	2518.7
7.5°	2530.1	2527.3	2523.5	2521.5	2518.7	2512.0	2507.3	2502.5	2497.7	2491.1	2483.4
10°	2513.9	2508.2	2502.5	2498.7	2493.9	2485.3	2475.8	2468.2	2457.7	2448.2	2437.7
12.5°	2491.1	2484.4	2472.9	2467.2	2461.5	2449.1	2436.7	2420.5	2406.2	2392.9	2380.5
15°	2462.5	2450.1	2436.7	2429.1	2420.5	2400.5	2381.5	2364.3	2345.3	2329.0	2309.0
17.5°	2420.5	2402.4	2383.4	2374.8	2363.4	2340.5	2317.6	2293.8	2271.9	2251.9	2227.1
20°	2357.6	2337.6	2312.8	2299.5	2290.0	2259.5	2237.6	2210.9	2188.0	2163.2	2135.6
22.5°	2284.3	2256.6	2229.0	2209.9	2199.4	2169.0	2139.4	2115.6	2090.8	2062.2	2042.2
25°	2201.4	2167.0	2133.7	2114.6	2098.4	2066.0	2037.4	2012.7	1982.2	1957.4	1937.4
27.5°	2108.0	2068.9	2029.8	2010.8	1995.5	1960.3	1929.8	1904.0	1874.5	1852.6	1831.6
30°	1996.5	1961.2	1924.0	1908.8	1890.7	1854.5	1819.2	1796.3	1763.9	1741.1	1718.2
32.5°	1857.3	1834.5	1804.9	1784.0	1774.4	1741.1	1711.5	1683.9	1656.3	1638.1	1615.3
35°	1704.9	1684.8	1660.1	1648.6	1636.2	1615.3	1591.5	1567.6	1545.7	1528.6	1507.6
37.5°	1550.5	1530.5	1515.2	1502.8	1495.2	1476.1	1461.9	1443.7	1428.5	1412.3	1400.9
40°	1390.4	1384.7	1368.5	1362.7	1360.8	1339.9	1327.5	1313.2	1303.7	1294.1	1287.5
42.5°	1248.4	1238.9	1226.5	1227.4	1221.7	1210.3	1201.7	1192.2	1185.5	1180.7	1174.1
45°	1108.3	1100.7	1095.0	1099.7	1090.2	1086.4	1079.7	1078.8	1074.0	1065.4	1062.6
47.5°	974.9	973.9	974.9	972.0	970.1	968.2	969.2	964.4	959.6	956.8	953.0
50°	852.9	853.9	855.8	858.6	852.0	854.8	853.9	852.9	852.9	850.0	852.0
52.5°	734.7	735.7	737.6	740.5	741.4	741.4	744.3	746.2	750.0	754.7	754.7
55°	623.2	629.9	633.7	638.5	635.6	641.3	644.2	652.8	655.6	655.6	659.5
57.5°	524.1	530.8	533.7	539.4	541.3	546.0	553.7	558.4	565.1	570.8	576.5
60°	433.6	436.5	444.1	452.7	450.8	462.2	467.9	475.5	484.1	487.9	495.5
62.5°	352.6	356.4	362.1	365.0	371.7	377.4	390.7	398.3	406.0	415.5	423.1
65°	280.2	284.0	289.7	295.4	298.3	306.9	313.5	326.9	333.5	344.0	352.6
67.5°	214.4	220.1	224.9	228.7	230.6	239.2	249.7	255.4	267.8	278.3	284.9
70°	160.1	164.9	170.6	169.6	173.4	180.1	187.7	196.3	205.8	215.4	223.0
72.5°	111.5	116.3	120.1	121.0	124.8	129.6	135.3	142.0	149.6	159.1	169.6
75°	70.5	71.5	75.3	77.2	79.1	84.8	89.6	96.2	102.9	110.5	117.2
77.5°	35.3	38.1	40.0	41.9	42.9	47.6	52.4	58.1	63.8	71.5	78.1
80°	13.3	14.3	17.2	18.1	20.0	22.9	26.7	29.5	34.3	40.0	43.8
82.5°	4.8	5.7	6.7	6.7	7.6	9.5	10.5	13.3	16.2	18.1	20.0
85°	1.9	1.9	1.9	1.9	1.9	2.9	2.9	3.8	4.8	5.7	5.7
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: P879457

CATALOG NUMBER: LD4C55D010 EU4559050 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2
2.5°	2537.7	2537.7	2536.8	2535.8	2535.8	2535.8	2534.9	2534.9
5°	2514.9	2512.0	2511.1	2509.2	2508.2	2507.3	2504.4	2504.4
7.5°	2477.7	2473.9	2471.0	2468.2	2464.4	2461.5	2461.5	2457.7
10°	2428.2	2420.5	2416.7	2412.9	2408.1	2402.4	2400.5	2397.7
12.5°	2368.1	2352.9	2349.1	2342.4	2334.8	2331.0	2324.3	2324.3
15°	2293.8	2277.6	2269.0	2265.2	2255.7	2249.0	2246.1	2238.5
17.5°	2207.1	2194.7	2181.3	2175.6	2165.1	2156.6	2152.8	2151.8
20°	2119.4	2099.4	2090.8	2082.2	2069.8	2062.2	2056.5	2048.9
22.5°	2018.4	2000.3	1987.9	1982.2	1971.7	1958.3	1948.8	1948.8
25°	1911.7	1895.5	1888.8	1876.4	1864.0	1859.2	1847.8	1845.9
27.5°	1809.7	1793.5	1780.1	1773.5	1759.2	1752.5	1743.0	1739.2
30°	1703.9	1684.8	1675.3	1674.4	1657.2	1650.5	1642.9	1639.1
32.5°	1598.1	1581.9	1572.4	1566.7	1559.1	1547.6	1540.9	1537.1
35°	1493.3	1482.8	1474.2	1467.6	1455.2	1449.5	1443.7	1439.0
37.5°	1383.7	1374.2	1370.4	1364.6	1358.9	1348.4	1346.5	1342.7
40°	1277.9	1265.5	1265.5	1261.7	1256.0	1255.1	1252.2	1252.2
42.5°	1167.4	1161.7	1160.7	1161.7	1157.9	1155.9	1153.1	1159.8
45°	1057.8	1060.7	1055.9	1056.8	1054.9	1058.7	1058.7	1062.6
47.5°	956.8	953.0	954.9	956.8	959.6	959.6	958.7	957.7
50°	849.1	852.9	856.7	852.0	853.9	854.8	850.0	851.0
52.5°	756.7	757.6	760.5	757.6	760.5	759.5	761.4	757.6
55°	667.1	667.1	670.9	671.8	672.8	675.7	676.6	679.5
57.5°	580.4	585.1	589.9	588.9	592.7	596.6	593.7	596.6
60°	505.1	508.9	513.6	515.6	518.4	520.3	520.3	522.2
62.5°	428.8	436.5	440.3	444.1	444.1	447.9	451.7	452.7
65°	360.2	368.8	371.7	374.5	376.4	380.2	385.0	384.0
67.5°	295.4	301.1	304.9	306.9	312.6	314.5	318.3	322.1
70°	231.6	239.2	242.1	245.9	250.6	254.4	258.3	260.2
72.5°	177.3	183.0	184.9	188.7	193.5	197.3	199.2	202.0
75°	123.9	133.4	134.4	137.2	141.0	145.8	148.7	147.7
77.5°	82.0	88.6	89.6	93.4	97.2	101.0	102.0	102.9
80°	48.6	52.4	53.4	55.3	58.1	60.0	61.9	63.8
82.5°	22.9	24.8	26.7	26.7	28.6	30.5	30.5	31.4
85°	7.6	7.6	8.6	8.6	9.5	9.5	10.5	9.5
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)