

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: P879451

Luminaire Tested: **LD4C55D010 EU4559030 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: P879451
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 EU4559030 4LBLDWWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

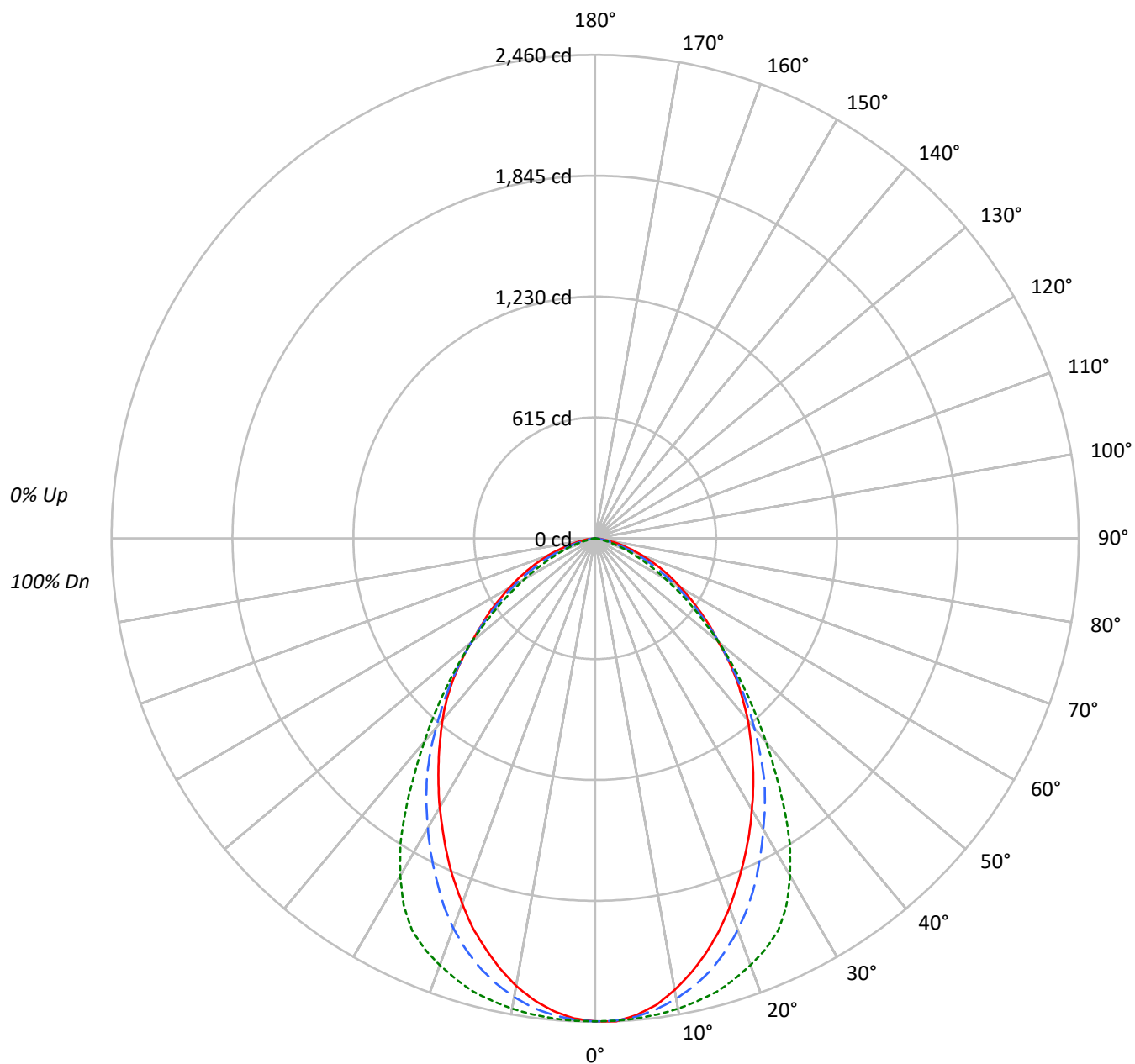
Lumens per Lamp: N/A
Luminaire Lumens: 4515.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	302023	302023	302023
5°	300229	302498	297960
10°	291089	303239	288556
15°	277713	303901	274674
20°	261306	302175	258417
25°	243387	298598	241394
30°	226152	281193	224322
35°	209727	251495	208197
40°	193892	216890	193732
45°	176660	185121	178102
50°	156035	156570	156915
55°	139822	127999	140401
60°	123566	101649	123787
65°	108778	77500	107703
70°	90159	55496	90159
75°	70251	31850	67640
80°	45562	7782	43581
85°	16915	2537	12968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	5.1
10°-20°	638.5	14.1
20°-30°	892.5	19.8
30°-40°	941.5	20.9
40°-50°	800.9	17.7
50°-60°	565.2	12.5
60°-70°	320.4	7.1
70°-80°	114.3	2.5
80°-90°	11.0	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°	1761.8	39.0
0°-40°	2703.3	59.9
0°-60°	4069.4	90.1
0°-90°	4515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2458	2458	2458	2458	2458	
5°	2434	2443	2453	2435	2416	229
15°	2184	2275	2389	2263	2160	612
25°	1796	1930	2203	1912	1781	826
35°	1398	1500	1677	1491	1388	874
45°	1017	1032	1066	1036	1025	782
55°	653	631	598	632	656	586
65°	374	321	267	322	370	371
75°	148	101	67	99	142	160
85°	12	5	2	5	9	21
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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2460.2	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6	2455.6	2456.6	2456.6
5°	2434.5	2432.6	2431.7	2431.7	2431.7	2431.7	2432.6	2436.3	2438.2	2440.9	2442.8
7.5°	2394.0	2390.4	2392.2	2392.2	2394.0	2395.9	2398.6	2402.3	2407.8	2411.5	2416.1
10°	2333.4	2329.7	2334.3	2336.1	2341.6	2344.4	2349.0	2354.5	2365.5	2371.1	2378.4
12.5°	2262.6	2260.7	2262.6	2269.9	2275.4	2279.1	2284.6	2296.6	2307.6	2319.6	2332.4
15°	2183.5	2178.9	2181.7	2190.9	2200.0	2206.5	2211.1	2226.7	2241.4	2259.8	2275.4
17.5°	2095.2	2088.8	2096.2	2103.5	2115.5	2121.0	2127.4	2144.9	2165.1	2185.3	2202.8
20°	1998.7	1996.9	2001.5	2011.6	2023.5	2030.9	2036.4	2055.7	2073.2	2100.8	2121.0
22.5°	1898.5	1900.3	1904.0	1915.0	1923.3	1933.4	1941.7	1959.2	1979.4	2005.1	2030.9
25°	1795.5	1798.3	1804.7	1812.1	1825.9	1831.4	1841.5	1859.9	1877.3	1901.3	1929.8
27.5°	1696.2	1697.2	1704.5	1708.2	1721.1	1733.0	1737.6	1756.9	1777.1	1795.5	1820.3
30°	1594.2	1596.9	1601.5	1611.7	1624.5	1629.1	1634.6	1652.1	1667.7	1690.7	1710.0
32.5°	1496.7	1494.9	1500.4	1505.9	1520.6	1528.9	1531.7	1551.9	1565.7	1588.7	1607.1
35°	1398.4	1393.8	1402.0	1407.6	1420.4	1427.8	1431.5	1447.1	1460.0	1479.3	1499.5
37.5°	1300.0	1303.7	1307.3	1311.9	1318.4	1320.2	1331.2	1334.9	1351.5	1366.2	1377.2
40°	1209.0	1207.1	1205.3	1209.9	1218.2	1221.8	1222.8	1232.9	1236.6	1251.3	1259.5
42.5°	1111.5	1112.4	1111.5	1112.4	1117.0	1117.0	1119.8	1126.2	1129.0	1133.6	1143.7
45°	1016.8	1016.8	1014.1	1015.0	1015.9	1015.0	1015.9	1018.7	1024.2	1024.2	1031.5
47.5°	918.4	916.6	920.3	917.5	915.7	914.8	917.5	914.8	920.3	920.3	922.1
50°	816.4	816.4	821.0	820.1	821.9	818.2	819.2	819.2	820.1	819.2	822.8
52.5°	737.3	735.5	733.7	729.1	730.9	727.2	727.2	728.1	725.4	724.5	719.9
55°	652.8	654.6	651.8	650.0	650.0	646.3	645.4	639.9	636.2	633.4	630.7
57.5°	576.4	578.3	577.4	572.8	567.3	568.2	566.3	560.8	552.5	547.0	542.4
60°	502.9	504.7	502.9	498.3	496.5	492.8	491.9	484.5	478.1	470.7	465.2
62.5°	436.7	436.7	435.8	429.3	424.7	425.7	421.1	415.6	407.3	397.2	388.9
65°	374.2	373.3	368.7	365.9	362.2	357.6	354.9	346.6	340.2	331.9	320.9
67.5°	311.7	308.9	307.1	304.3	296.0	295.1	291.4	284.1	274.9	268.5	259.3
70°	251.0	250.1	246.4	246.4	240.0	237.2	231.7	225.2	217.0	207.8	200.4
72.5°	198.6	196.7	193.1	189.4	183.9	182.0	177.4	171.0	163.6	154.5	145.3
75°	148.0	146.2	145.3	140.7	136.1	131.5	129.6	123.2	115.8	109.4	101.1
77.5°	103.9	102.0	99.3	96.5	93.8	91.0	88.3	82.7	76.3	70.8	63.4
80°	64.4	62.5	60.7	59.8	57.0	56.1	52.4	49.6	44.1	40.5	35.9
82.5°	33.1	33.1	31.3	30.3	28.5	27.6	26.7	23.9	21.1	18.4	15.6
85°	12.0	12.0	11.0	10.1	10.1	9.2	9.2	8.3	6.4	6.4	4.6
87.5°	0.9	0.9	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2457.5	2456.6	2457.5	2457.5	2458.4	2458.4	2458.4	2457.5	2458.4	2457.5	2457.5
5°	2442.8	2445.5	2447.4	2449.2	2450.1	2451.0	2451.0	2452.0	2452.9	2452.9	2452.0
7.5°	2419.8	2425.3	2430.8	2434.5	2436.3	2438.2	2440.9	2442.8	2444.6	2443.7	2442.8
10°	2389.4	2398.6	2406.0	2413.3	2417.0	2419.8	2424.4	2428.1	2429.9	2430.8	2428.1
12.5°	2346.2	2359.1	2371.1	2383.0	2388.5	2392.2	2401.4	2407.8	2411.5	2411.5	2408.7
15°	2292.0	2310.4	2327.8	2343.5	2352.7	2358.2	2372.0	2381.2	2386.7	2389.4	2384.8
17.5°	2226.7	2247.9	2269.0	2289.2	2298.4	2306.7	2326.0	2338.9	2350.8	2352.7	2347.1
20°	2143.0	2169.7	2193.6	2218.4	2228.5	2241.4	2263.5	2284.6	2303.0	2311.3	2295.7
22.5°	2049.3	2078.7	2100.8	2131.1	2144.9	2158.7	2187.2	2213.8	2246.0	2263.5	2235.9
25°	1951.8	1976.6	2003.3	2032.7	2052.0	2066.7	2099.8	2133.9	2177.1	2202.8	2164.2
27.5°	1847.0	1869.1	1901.3	1933.4	1948.1	1966.5	2006.1	2042.8	2084.2	2107.2	2078.7
30°	1738.5	1766.1	1796.4	1825.9	1847.0	1864.5	1896.7	1927.9	1962.9	1982.2	1961.0
32.5°	1631.0	1657.6	1683.4	1715.5	1727.5	1743.1	1771.6	1798.3	1824.9	1842.4	1817.6
35°	1517.9	1541.8	1565.7	1587.7	1593.3	1611.7	1634.6	1650.3	1663.1	1676.9	1660.4
37.5°	1394.7	1413.1	1425.0	1448.9	1458.1	1460.9	1479.3	1490.3	1504.1	1506.8	1505.9
40°	1269.6	1286.2	1296.3	1311.0	1318.4	1318.4	1331.2	1341.4	1351.5	1352.4	1351.5
42.5°	1152.9	1161.2	1169.4	1178.6	1176.8	1187.8	1193.3	1197.9	1205.3	1205.3	1207.1
45°	1035.2	1041.6	1049.0	1050.8	1058.2	1058.2	1062.8	1064.6	1068.3	1065.5	1061.9
47.5°	925.8	928.6	929.5	937.8	939.6	933.2	938.7	939.6	938.7	938.7	936.8
50°	821.9	823.8	822.8	820.1	821.0	823.8	821.0	817.3	819.2	819.2	821.0
52.5°	720.8	717.1	715.3	715.3	711.6	711.6	707.0	705.2	704.2	700.6	705.2
55°	627.9	622.4	614.1	612.3	609.5	608.6	603.1	598.5	596.7	597.6	596.7
57.5°	538.7	530.5	525.0	523.1	520.4	514.8	508.4	503.8	502.9	501.1	501.1
60°	457.8	448.7	440.4	432.1	433.0	429.3	422.9	420.2	417.4	413.7	416.5
62.5°	384.3	374.2	365.0	356.7	351.2	348.4	343.8	339.2	336.5	333.7	337.4
65°	311.7	303.4	293.3	285.0	282.2	279.5	274.9	267.5	266.6	266.6	268.5
67.5°	246.4	237.2	228.0	222.5	218.8	215.1	213.3	209.6	206.9	205.0	205.9
70°	189.4	180.2	172.8	167.3	164.6	163.6	157.2	156.3	155.4	154.5	153.5
72.5°	137.9	130.6	124.1	120.4	116.8	114.0	112.2	109.4	108.5	108.5	108.5
75°	94.7	89.2	81.8	77.2	75.4	72.6	69.9	68.0	66.2	67.1	67.1
77.5°	57.0	51.5	46.9	43.2	42.3	39.5	36.8	34.9	32.2	32.2	33.1
80°	31.3	26.7	23.0	20.2	18.4	17.5	14.7	13.8	12.0	11.0	11.0
82.5°	13.8	11.0	9.2	8.3	7.4	6.4	5.5	4.6	4.6	3.7	4.6
85°	4.6	3.7	2.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2456.6	2456.6	2455.6	2455.6	2455.6	2453.8	2453.8	2452.9	2452.0	2451.0	2449.2
5°	2450.1	2449.2	2447.4	2446.4	2445.5	2442.8	2440.0	2438.2	2435.4	2431.7	2429.9
7.5°	2440.9	2438.2	2434.5	2432.6	2429.9	2423.5	2418.9	2414.3	2409.7	2403.2	2395.9
10°	2425.3	2419.8	2414.3	2410.6	2406.0	2397.7	2388.5	2381.2	2371.1	2361.9	2351.7
12.5°	2403.2	2396.8	2385.8	2380.2	2374.7	2362.8	2350.8	2335.2	2321.4	2308.5	2296.6
15°	2375.6	2363.7	2350.8	2343.5	2335.2	2315.9	2297.5	2281.0	2262.6	2246.9	2227.6
17.5°	2335.2	2317.7	2299.3	2291.1	2280.0	2258.0	2235.9	2212.9	2191.8	2172.5	2148.6
20°	2274.5	2255.2	2231.3	2218.4	2209.2	2179.8	2158.7	2132.9	2110.9	2087.0	2060.3
22.5°	2203.7	2177.1	2150.4	2132.0	2121.9	2092.5	2064.0	2041.0	2017.1	1989.5	1970.2
25°	2123.7	2090.6	2058.5	2040.1	2024.4	1993.2	1965.6	1941.7	1912.3	1888.4	1869.1
27.5°	2033.6	1995.9	1958.3	1939.9	1925.2	1891.1	1861.7	1836.9	1808.4	1787.3	1767.0
30°	1926.1	1892.1	1856.2	1841.5	1824.0	1789.1	1755.1	1733.0	1701.8	1679.7	1657.6
32.5°	1791.8	1769.8	1741.3	1721.1	1711.9	1679.7	1651.2	1624.5	1597.9	1580.4	1558.3
35°	1644.7	1625.4	1601.5	1590.5	1578.6	1558.3	1535.3	1512.4	1491.2	1474.7	1454.4
37.5°	1495.8	1476.5	1461.8	1449.8	1442.5	1424.1	1410.3	1392.8	1378.1	1362.5	1351.5
40°	1341.4	1335.8	1320.2	1314.7	1312.9	1292.6	1280.7	1266.9	1257.7	1248.5	1242.1
42.5°	1204.4	1195.2	1183.2	1184.1	1178.6	1167.6	1159.3	1150.1	1143.7	1139.1	1132.7
45°	1069.2	1061.9	1056.4	1061.0	1051.8	1048.1	1041.6	1040.7	1036.1	1027.9	1025.1
47.5°	940.5	939.6	940.5	937.8	935.9	934.1	935.0	930.4	925.8	923.0	919.4
50°	822.8	823.8	825.6	828.4	821.9	824.7	823.8	822.8	822.8	820.1	821.9
52.5°	708.8	709.8	711.6	714.3	715.3	715.3	718.0	719.9	723.5	728.1	728.1
55°	601.3	607.7	611.4	616.0	613.2	618.7	621.5	629.8	632.5	632.5	636.2
57.5°	505.7	512.1	514.8	520.4	522.2	526.8	534.2	538.7	545.2	550.7	556.2
60°	418.3	421.1	428.4	436.7	434.9	445.9	451.4	458.8	467.0	470.7	478.1
62.5°	340.2	343.8	349.4	352.1	358.6	364.1	376.9	384.3	391.7	400.8	408.2
65°	270.3	274.0	279.5	285.0	287.8	296.0	302.5	315.3	321.8	331.9	340.2
67.5°	206.9	212.4	217.0	220.6	222.5	230.8	240.9	246.4	258.3	268.5	274.9
70°	154.5	159.1	164.6	163.6	167.3	173.8	181.1	189.4	198.6	207.8	215.1
72.5°	107.6	112.2	115.8	116.8	120.4	125.0	130.6	137.0	144.3	153.5	163.6
75°	68.0	69.0	72.6	74.5	76.3	81.8	86.4	92.9	99.3	106.6	113.1
77.5°	34.0	36.8	38.6	40.5	41.4	46.0	50.6	56.1	61.6	69.0	75.4
80°	12.9	13.8	16.5	17.5	19.3	22.1	25.7	28.5	33.1	38.6	42.3
82.5°	4.6	5.5	6.4	6.4	7.4	9.2	10.1	12.9	15.6	17.5	19.3
85°	1.8	1.8	1.8	1.8	1.8	2.8	2.8	3.7	4.6	5.5	5.5
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: P879451

CATALOG NUMBER: LD4C55D010 EU4559030 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2448.3	2448.3	2447.4	2446.4	2446.4	2446.4	2445.5	2445.5
5°	2426.2	2423.5	2422.5	2420.7	2419.8	2418.9	2416.1	2416.1
7.5°	2390.4	2386.7	2383.9	2381.2	2377.5	2374.7	2374.7	2371.1
10°	2342.6	2335.2	2331.5	2327.8	2323.2	2317.7	2315.9	2313.1
12.5°	2284.6	2269.9	2266.2	2259.8	2252.5	2248.8	2242.3	2242.3
15°	2212.9	2197.3	2189.0	2185.3	2176.1	2169.7	2167.0	2159.6
17.5°	2129.3	2117.3	2104.4	2098.9	2088.8	2080.5	2076.9	2075.9
20°	2044.7	2025.4	2017.1	2008.8	1996.9	1989.5	1984.0	1976.6
22.5°	1947.2	1929.8	1917.8	1912.3	1902.2	1889.3	1880.1	1880.1
25°	1844.3	1828.6	1822.2	1810.2	1798.3	1793.7	1782.7	1780.8
27.5°	1745.9	1730.3	1717.4	1710.9	1697.2	1690.7	1681.5	1677.8
30°	1643.8	1625.4	1616.2	1615.3	1598.8	1592.3	1585.0	1581.3
32.5°	1541.8	1526.2	1517.0	1511.4	1504.1	1493.1	1486.6	1482.9
35°	1440.6	1430.5	1422.3	1415.8	1403.9	1398.4	1392.8	1388.2
37.5°	1334.9	1325.7	1322.1	1316.5	1311.0	1300.9	1299.1	1295.4
40°	1232.9	1220.9	1220.9	1217.2	1211.7	1210.8	1208.0	1208.0
42.5°	1126.2	1120.7	1119.8	1120.7	1117.0	1115.2	1112.4	1118.9
45°	1020.5	1023.3	1018.7	1019.6	1017.7	1021.4	1021.4	1025.1
47.5°	923.0	919.4	921.2	923.0	925.8	925.8	924.9	924.0
50°	819.2	822.8	826.5	821.9	823.8	824.7	820.1	821.0
52.5°	730.0	730.9	733.7	730.9	733.7	732.7	734.6	730.9
55°	643.6	643.6	647.2	648.2	649.1	651.8	652.8	655.5
57.5°	559.9	564.5	569.1	568.2	571.8	575.5	572.8	575.5
60°	487.3	490.9	495.5	497.4	500.1	502.0	502.0	503.8
62.5°	413.7	421.1	424.7	428.4	428.4	432.1	435.8	436.7
65°	347.5	355.8	358.6	361.3	363.2	366.8	371.4	370.5
67.5°	285.0	290.5	294.2	296.0	301.6	303.4	307.1	310.7
70°	223.4	230.8	233.5	237.2	241.8	245.5	249.1	251.0
72.5°	171.0	176.5	178.4	182.0	186.6	190.3	192.1	194.9
75°	119.5	128.7	129.6	132.4	136.1	140.7	143.4	142.5
77.5°	79.1	85.5	86.4	90.1	93.8	97.5	98.4	99.3
80°	46.9	50.6	51.5	53.3	56.1	57.9	59.8	61.6
82.5°	22.1	23.9	25.7	25.7	27.6	29.4	29.4	30.3
85°	7.4	7.4	8.3	8.3	9.2	9.2	10.1	9.2
87.5°	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9
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)