

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P640231

Luminaire Tested: LCR850RD9FSE010-50W-5000K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2208047D001)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: LCR850RD9FSE010-50W-5000K
Description: LCR 8
Light Source: 5000K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

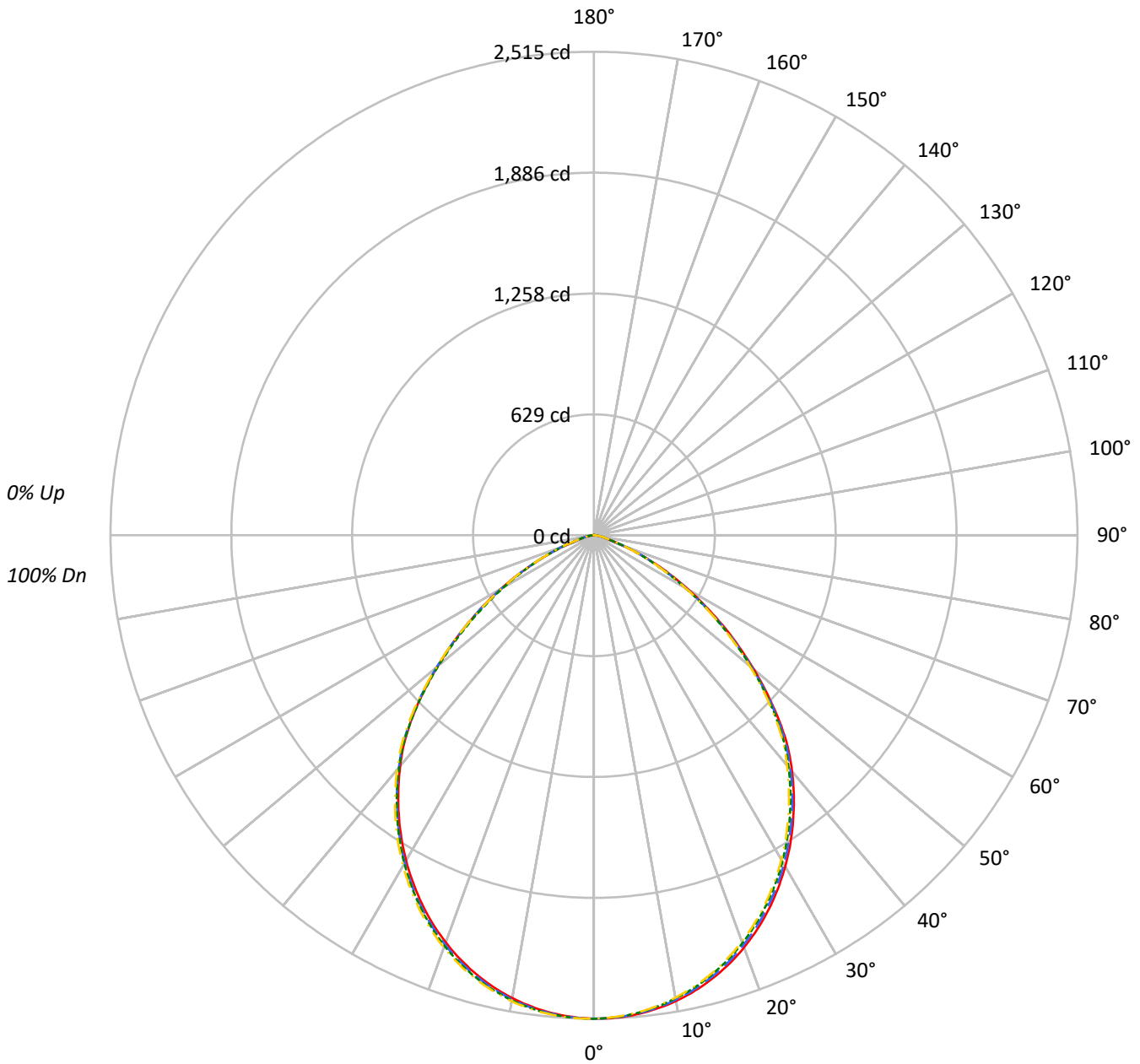
Lumens per Lamp: N/A
Luminaire Lumens: 5205.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.2
Input Voltage (V): 120
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: 24 FT



TEST NUMBER: P640231
CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ··· 90°-270° - · 135°-315°



TEST NUMBER: P640231
 CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	61	69	64	61	59
5	81	70	62	56	79	69	61	55	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	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	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	77547	77547	77547	77547
5°	77475	77274	77224	77438
10°	77040	76602	76555	76918
15°	76184	75561	75475	76005
20°	74914	74097	73966	74599
25°	73121	72186	72005	72662
30°	70843	69807	69576	70231
35°	68019	66916	66634	67195
40°	64563	63404	63126	63452
45°	59387	58371	58100	58127
50°	52122	51134	51029	50626
55°	43993	42837	43058	42235
60°	35240	34012	34487	33451
65°	25698	24808	24859	24531
70°	15444	15715	15039	15625
75°	8173	8983	8102	8817
80°	6784	7405	6730	7441
85°	4812	6192	4812	6192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 59387 cd/sqm



TEST NUMBER: P640231
 CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.1	4.6
10°-20°	668.8	12.9
20°-30°	980.0	18.8
30°-40°	1114.2	21.4
40°-50°	1029.2	19.8
50°-60°	717.0	13.8
60°-70°	345.2	6.6
70°-80°	90.5	1.7
80°-90°	18.9	0.4
90°-100°	0.2	0.0
100°-110°	0.3	0.0
110°-120°	0.4	0.0
120°-130°	0.6	0.0
130°-140°	0.7	0.0
140°-150°	0.7	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	1885.9	36.2
0°-40°	3000.1	57.6
0°-60°	4746.3	91.2
0°-90°	5200.9	99.9
90°-120°	1.0	0.0
90°-150°	3.0	0.1
90°-180°	4.0	0.1
0°-180°	5205.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2515	2515	2515	2515	2515	
5°	2503	2496	2495	2502	2503	238
15°	2386	2367	2364	2381	2386	672
25°	2149	2122	2116	2136	2149	988
35°	1807	1778	1770	1785	1807	1128
45°	1362	1338	1332	1333	1362	1045
55°	818	797	801	786	818	733
65°	352	340	341	336	352	353
75°	69	75	68	74	69	86
85°	14	18	14	18	14	16
90°	0	0	0	1	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	2	2	1	1	0
175°	1	2	2	1	1	0
180°	2	2	2	2	2	



TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8
0.5°	2514.9	2514.9	2514.8	2514.5	2514.4	2514.2	2514.2	2514.1	2514.0	2514.5	2514.2
1°	2514.6	2515.0	2514.1	2513.6	2513.8	2513.0	2513.2	2513.2	2513.1	2513.7	2513.8
1.5°	2514.4	2514.0	2513.2	2512.7	2512.5	2511.5	2511.8	2511.8	2512.1	2512.8	2513.3
2°	2513.6	2513.4	2512.0	2511.3	2511.0	2510.5	2510.5	2510.5	2510.7	2511.4	2511.9
2.5°	2512.8	2512.1	2510.9	2509.9	2509.7	2508.4	2508.5	2508.6	2508.6	2509.6	2510.7
3°	2511.6	2510.7	2509.3	2508.1	2507.6	2506.1	2506.3	2506.2	2506.7	2507.6	2509.1
3.5°	2510.1	2508.8	2507.4	2505.9	2505.4	2503.8	2503.3	2503.7	2504.2	2505.6	2506.8
4°	2507.9	2506.7	2505.0	2503.5	2502.6	2501.0	2500.6	2501.0	2501.5	2503.1	2504.3
4.5°	2505.6	2504.4	2502.6	2500.8	2499.5	2498.0	2497.7	2497.9	2498.2	2500.0	2501.6
5°	2502.9	2501.5	2499.6	2497.7	2496.4	2494.5	2494.2	2494.5	2494.8	2497.0	2498.8
5.5°	2500.1	2498.5	2496.4	2494.0	2492.5	2490.8	2490.6	2490.6	2491.3	2493.6	2495.6
6°	2496.7	2495.2	2492.5	2490.1	2488.4	2486.9	2486.3	2486.3	2487.3	2489.6	2491.7
6.5°	2493.3	2491.6	2488.9	2486.0	2484.6	2482.5	2482.0	2481.9	2483.1	2485.9	2487.9
7°	2489.5	2487.3	2485.0	2481.4	2480.1	2478.0	2477.3	2477.0	2478.6	2481.6	2483.6
7.5°	2485.4	2483.3	2480.5	2476.7	2475.4	2472.5	2472.1	2472.1	2473.7	2476.5	2479.0
8°	2481.2	2478.6	2475.8	2471.9	2470.1	2467.8	2466.9	2467.2	2468.5	2471.5	2474.2
8.5°	2476.1	2473.7	2470.7	2466.4	2464.8	2462.0	2461.4	2461.6	2463.2	2466.0	2469.1
9°	2471.1	2468.6	2465.3	2460.4	2459.0	2456.2	2455.1	2455.8	2457.2	2460.5	2463.9
9.5°	2465.9	2463.1	2459.1	2454.6	2452.8	2450.3	2449.1	2449.5	2451.3	2454.4	2457.8
10°	2460.4	2457.2	2453.5	2448.4	2446.4	2443.9	2442.4	2443.3	2444.9	2448.1	2451.6
10.5°	2454.2	2451.1	2447.0	2442.1	2440.0	2437.1	2435.4	2436.4	2438.2	2441.6	2445.0
11°	2448.0	2444.8	2440.4	2435.4	2433.2	2430.0	2428.3	2429.3	2431.2	2434.7	2438.5
11.5°	2441.4	2437.9	2433.4	2428.4	2425.8	2422.7	2421.1	2421.7	2424.3	2427.2	2431.6
12°	2434.5	2431.1	2426.3	2421.1	2417.9	2414.8	2413.5	2413.8	2416.3	2419.9	2424.3
12.5°	2427.2	2423.7	2418.6	2413.1	2410.6	2407.1	2405.3	2406.2	2408.2	2412.2	2416.6
13°	2420.0	2416.0	2410.8	2405.5	2402.1	2398.6	2397.4	2397.9	2400.1	2404.2	2408.7
13.5°	2411.9	2408.1	2402.7	2397.0	2394.2	2389.9	2388.5	2389.2	2391.6	2396.0	2400.3
14°	2403.7	2399.8	2394.2	2387.9	2385.0	2381.1	2379.7	2380.1	2382.8	2387.2	2391.7
14.5°	2395.3	2391.4	2385.6	2379.1	2376.2	2372.2	2370.3	2370.8	2373.7	2378.0	2382.7
15°	2386.4	2382.8	2376.7	2369.9	2366.9	2362.5	2360.8	2361.7	2364.2	2368.6	2373.4
15.5°	2377.3	2373.8	2367.2	2360.5	2357.4	2352.8	2351.1	2351.3	2354.3	2359.2	2364.1
16°	2368.0	2364.2	2357.5	2350.5	2347.1	2342.8	2340.7	2340.8	2344.4	2349.2	2354.6
16.5°	2358.4	2354.6	2347.3	2340.6	2337.0	2332.8	2330.6	2330.9	2333.8	2338.9	2344.3
17°	2348.6	2344.1	2337.6	2330.4	2326.7	2321.9	2319.2	2320.2	2323.4	2328.6	2334.0
17.5°	2338.3	2334.0	2327.0	2319.8	2315.7	2311.2	2308.2	2309.3	2312.7	2317.7	2323.7
18°	2327.9	2323.3	2316.3	2309.0	2305.1	2299.7	2297.0	2298.0	2301.5	2306.9	2312.5
18.5°	2316.7	2312.0	2304.9	2297.3	2293.3	2288.2	2285.9	2286.4	2290.0	2295.6	2301.3
19°	2305.6	2300.5	2294.0	2286.0	2281.8	2276.6	2274.1	2274.8	2278.0	2284.0	2289.8
19.5°	2294.0	2289.2	2282.3	2274.3	2270.3	2265.0	2261.8	2262.5	2266.2	2271.7	2277.8
20°	2282.9	2277.6	2270.5	2262.2	2258.0	2252.5	2249.8	2250.1	2254.0	2259.9	2265.7
20.5°	2270.2	2265.2	2257.8	2249.5	2245.4	2239.8	2237.2	2237.5	2241.4	2247.1	2253.2
21°	2257.7	2253.0	2245.3	2236.8	2232.6	2227.0	2224.1	2224.6	2228.5	2234.5	2240.3
21.5°	2244.9	2240.3	2232.5	2223.9	2219.9	2213.9	2211.0	2211.2	2215.7	2221.6	2227.6
22°	2232.4	2227.6	2219.7	2210.6	2206.2	2200.7	2197.8	2197.8	2201.9	2208.1	2214.3



TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2219.1	2213.9	2206.4	2197.4	2192.6	2187.1	2184.1	2184.2	2188.5	2194.9	2200.9
23°	2205.6	2200.6	2193.0	2183.9	2179.1	2173.0	2169.9	2170.4	2174.7	2181.0	2187.0
23.5°	2192.0	2187.0	2178.9	2169.8	2165.2	2158.9	2155.8	2156.3	2160.4	2166.8	2173.0
24°	2177.9	2172.5	2164.9	2155.7	2150.7	2144.6	2141.3	2141.7	2145.6	2152.7	2158.8
24.5°	2163.5	2158.3	2150.2	2141.0	2136.4	2129.9	2126.5	2126.8	2131.3	2137.6	2144.0
25°	2149.1	2143.9	2135.8	2126.1	2121.6	2114.8	2111.3	2111.8	2116.3	2122.8	2129.3
25.5°	2134.5	2129.3	2120.6	2111.6	2106.5	2100.1	2096.4	2097.2	2101.0	2107.8	2113.9
26°	2119.3	2114.1	2105.7	2096.2	2091.0	2084.6	2080.7	2081.4	2085.4	2092.3	2098.6
26.5°	2103.6	2098.5	2090.4	2080.8	2075.8	2068.9	2065.0	2065.2	2069.8	2076.7	2082.9
27°	2088.3	2083.0	2075.2	2064.9	2060.0	2052.9	2049.0	2049.3	2053.7	2060.7	2067.2
27.5°	2072.5	2067.1	2059.0	2048.5	2044.0	2037.1	2033.0	2033.6	2037.7	2044.7	2051.2
28°	2056.5	2050.6	2042.3	2032.7	2027.6	2020.6	2016.1	2016.9	2021.1	2028.2	2034.4
28.5°	2039.7	2034.5	2026.1	2016.0	2011.3	2004.1	1999.9	2000.4	2004.7	2011.9	2017.9
29°	2023.2	2018.4	2009.8	1999.4	1994.5	1987.2	1982.9	1983.5	1988.3	1995.2	2001.2
29.5°	2006.4	2001.3	1993.2	1982.4	1977.6	1970.1	1965.9	1966.3	1971.2	1977.9	1984.1
30°	1989.6	1984.0	1976.2	1965.3	1960.5	1952.9	1948.6	1948.9	1954.0	1960.9	1966.7
30.5°	1971.9	1966.7	1958.8	1948.4	1943.1	1935.5	1931.0	1931.8	1936.3	1943.5	1949.0
31°	1954.6	1949.6	1941.2	1930.7	1925.3	1918.2	1913.2	1913.9	1918.8	1925.7	1931.6
31.5°	1936.8	1931.7	1923.2	1912.9	1907.6	1900.3	1895.5	1896.0	1900.9	1907.3	1913.6
32°	1919.4	1913.6	1905.5	1894.9	1889.9	1881.9	1877.1	1877.6	1882.8	1889.5	1895.3
32.5°	1901.0	1895.4	1887.7	1876.6	1871.9	1864.3	1859.2	1859.9	1864.8	1871.6	1877.6
33°	1882.4	1877.6	1868.8	1858.4	1853.5	1845.6	1840.2	1840.9	1846.0	1852.6	1858.6
33.5°	1864.0	1858.5	1850.2	1839.8	1834.8	1826.7	1821.5	1822.5	1827.4	1834.1	1839.9
34°	1845.6	1840.2	1831.8	1821.1	1815.8	1807.7	1803.0	1803.5	1808.5	1815.0	1821.1
34.5°	1826.2	1820.5	1812.7	1801.9	1796.6	1788.8	1783.8	1784.6	1789.3	1796.2	1801.9
35°	1806.9	1801.9	1793.4	1781.9	1777.6	1769.5	1764.6	1765.2	1770.1	1776.8	1782.4
35.5°	1787.4	1782.7	1774.4	1763.5	1757.9	1750.0	1744.8	1745.7	1751.0	1757.7	1762.8
36°	1767.9	1762.6	1754.5	1743.7	1738.3	1730.7	1725.3	1725.9	1731.1	1737.9	1742.9
36.5°	1748.1	1743.0	1734.7	1723.6	1718.8	1710.8	1706.0	1706.5	1711.4	1718.2	1723.5
37°	1728.2	1722.9	1713.9	1703.9	1698.6	1690.9	1685.3	1685.8	1691.3	1698.0	1703.0
37.5°	1708.1	1702.7	1694.4	1683.4	1678.4	1670.6	1665.1	1665.9	1671.1	1677.9	1682.1
38°	1687.1	1682.0	1673.7	1663.2	1658.1	1650.5	1645.0	1645.5	1650.7	1657.0	1662.1
38.5°	1666.7	1661.9	1653.0	1642.7	1637.5	1629.5	1624.6	1625.2	1630.2	1636.7	1641.7
39°	1646.1	1640.9	1632.3	1621.7	1617.0	1609.1	1603.9	1604.6	1609.6	1615.9	1620.5
39.5°	1625.1	1619.8	1611.7	1601.0	1596.2	1588.0	1583.5	1584.1	1589.0	1595.1	1599.6
40°	1603.9	1598.7	1590.4	1579.4	1575.1	1567.6	1562.5	1563.2	1568.2	1574.1	1578.3
40.5°	1582.4	1577.2	1569.5	1558.7	1553.8	1546.3	1541.8	1542.3	1547.1	1553.1	1557.2
41°	1560.9	1555.8	1547.9	1536.9	1532.7	1525.4	1520.7	1521.0	1525.9	1531.9	1535.7
41.5°	1539.2	1533.9	1526.1	1514.9	1511.4	1503.5	1499.1	1499.4	1504.5	1510.1	1514.0
42°	1515.8	1511.3	1503.1	1492.5	1488.4	1481.2	1477.2	1477.7	1482.5	1487.8	1491.7
42.5°	1492.3	1487.3	1479.5	1468.7	1465.2	1457.9	1454.0	1454.7	1459.2	1464.6	1468.7
43°	1466.7	1462.0	1455.0	1443.6	1441.3	1434.1	1430.2	1430.9	1434.8	1440.5	1444.5
43.5°	1441.2	1436.7	1429.0	1418.9	1415.5	1409.3	1405.5	1406.0	1409.7	1415.1	1419.0
44°	1414.6	1410.4	1403.1	1392.7	1390.4	1383.8	1380.3	1380.2	1384.6	1389.5	1393.0
44.5°	1389.1	1383.9	1377.1	1366.9	1364.4	1358.1	1354.7	1354.6	1358.6	1363.5	1367.1



TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1361.8	1357.4	1350.6	1339.8	1338.5	1332.1	1328.5	1328.8	1332.3	1337.8	1341.6
45.5°	1335.0	1330.7	1323.2	1313.9	1311.9	1306.1	1301.8	1302.4	1306.0	1311.1	1313.8
46°	1307.8	1303.2	1296.3	1287.1	1285.0	1279.4	1275.2	1276.1	1279.7	1284.5	1287.0
46.5°	1280.2	1275.8	1269.1	1259.1	1258.4	1252.3	1248.6	1249.4	1253.1	1257.7	1260.2
47°	1252.4	1248.2	1241.7	1231.9	1230.9	1225.5	1221.6	1222.1	1226.3	1230.3	1233.0
47.5°	1224.9	1220.9	1214.3	1204.7	1203.3	1197.7	1194.0	1195.0	1198.8	1203.2	1205.0
48°	1197.3	1193.3	1186.1	1177.1	1176.1	1170.9	1167.0	1168.3	1172.1	1176.5	1177.4
48.5°	1169.7	1165.4	1158.6	1148.7	1148.6	1143.5	1139.9	1141.3	1145.1	1148.7	1150.5
49°	1142.4	1137.6	1131.1	1121.2	1121.0	1116.0	1112.9	1113.8	1118.2	1121.6	1123.7
49.5°	1114.8	1110.1	1103.7	1093.9	1094.2	1088.2	1085.6	1086.7	1091.2	1094.3	1095.5
50°	1086.5	1082.1	1075.6	1066.3	1065.9	1061.1	1058.0	1059.9	1063.7	1067.3	1068.3
50.5°	1059.1	1054.8	1047.5	1038.2	1038.2	1033.8	1031.2	1032.8	1037.4	1040.1	1040.3
51°	1031.7	1027.3	1020.2	1010.5	1011.1	1006.2	1004.4	1005.7	1009.9	1013.1	1013.9
51.5°	1004.8	999.6	993.2	983.5	983.9	979.4	977.2	979.2	983.6	986.1	986.7
52°	977.8	972.7	965.9	956.2	957.3	952.5	950.7	952.8	957.2	959.6	959.9
52.5°	950.4	945.8	938.5	929.2	929.5	925.7	923.4	926.1	930.1	932.9	932.6
53°	923.8	919.0	911.6	902.4	902.4	898.2	897.5	899.6	904.3	906.7	905.8
53.5°	897.0	892.3	884.7	875.0	876.1	871.5	870.6	873.6	877.6	880.4	879.2
54°	870.2	865.1	858.0	848.0	849.3	845.8	844.4	847.7	852.0	854.1	853.2
54.5°	844.4	839.4	831.5	822.4	823.0	819.7	818.1	821.3	825.8	827.8	827.1
55°	818.3	813.1	805.4	796.3	796.8	794.1	793.0	796.1	800.9	802.8	800.6
55.5°	791.9	787.2	779.4	770.0	770.8	767.8	767.3	771.0	775.0	777.1	775.3
56°	766.6	761.4	753.5	744.1	746.0	743.1	742.8	746.6	750.6	752.7	750.7
56.5°	741.3	735.9	727.6	718.7	721.2	718.4	718.4	722.1	726.3	728.2	726.2
57°	716.0	710.8	702.4	693.4	696.4	693.8	694.0	697.7	701.9	703.8	701.6
57.5°	691.3	686.0	677.8	668.1	671.6	669.1	669.5	673.2	677.6	679.4	677.0
58°	666.6	662.0	653.3	644.1	646.8	644.4	645.1	648.8	653.3	654.9	652.5
58.5°	642.4	637.1	628.9	619.5	622.7	620.4	620.7	624.9	629.4	631.1	627.9
59°	618.4	613.3	604.7	595.5	598.8	596.3	597.0	600.9	605.6	607.0	604.0
59.5°	594.7	589.5	581.3	571.5	575.3	572.7	573.4	577.9	582.1	583.9	580.3
60°	571.4	566.3	557.7	548.8	551.5	549.6	549.8	554.5	559.2	560.4	557.1
60.5°	548.1	543.0	534.5	525.3	528.9	527.0	527.4	532.0	536.2	537.8	533.7
61°	525.4	520.7	511.8	503.2	506.6	504.7	505.0	509.3	514.0	515.4	511.4
61.5°	503.0	498.1	489.8	480.9	484.6	482.3	483.0	487.5	492.0	492.9	489.0
62°	481.6	476.6	467.8	459.3	462.9	460.6	461.4	465.6	470.3	471.8	467.3
62.5°	459.3	454.4	445.9	437.2	441.1	439.4	439.6	444.7	448.7	449.9	445.8
63°	437.9	433.7	424.8	416.7	419.9	418.1	418.6	423.1	426.2	428.6	424.1
63.5°	416.2	412.4	403.9	396.2	399.3	397.7	398.0	402.5	404.2	407.7	404.0
64°	394.6	392.2	383.7	375.7	379.3	377.3	378.0	382.0	382.8	386.9	383.4
64.5°	372.7	371.0	363.8	355.5	359.6	358.1	358.2	362.6	361.5	366.4	363.5
65°	352.2	351.9	344.2	336.5	340.0	338.6	338.8	343.0	340.7	346.5	344.4
65.5°	333.5	330.2	325.7	318.5	321.3	319.8	319.9	323.6	319.7	326.8	325.4
66°	313.2	311.5	307.3	300.6	302.9	301.6	301.6	304.1	300.0	307.4	306.5
66.5°	292.9	292.9	288.9	282.6	285.3	283.7	283.7	285.8	281.1	288.1	288.7
67°	272.7	274.3	270.5	264.6	267.7	266.0	266.3	267.1	263.1	269.8	271.0



TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	252.5	255.7	252.1	246.6	250.6	249.5	249.2	249.6	245.6	252.2	254.0
68°	235.2	238.5	236.0	230.5	234.2	233.1	233.0	232.3	228.7	235.3	237.3
68.5°	218.3	221.7	220.1	214.8	218.8	217.6	217.3	215.9	212.4	218.7	221.4
69°	202.0	205.2	204.6	199.5	203.3	202.0	202.2	200.2	196.6	202.9	206.0
69.5°	186.2	189.9	189.4	184.9	188.5	187.6	187.5	185.2	181.5	187.9	191.2
70°	171.3	175.4	175.7	171.2	174.3	173.6	173.2	171.1	166.8	173.6	176.8
70.5°	157.2	161.3	161.8	158.0	161.0	160.2	160.3	157.8	153.6	160.0	163.5
71°	143.8	148.0	149.0	145.0	148.1	147.7	147.5	144.9	140.4	146.9	150.4
71.5°	131.0	135.4	136.3	133.3	136.1	135.7	135.5	133.0	128.0	134.9	138.2
72°	118.7	123.7	125.3	122.2	124.8	124.1	124.0	121.8	116.4	123.3	126.8
72.5°	106.9	112.8	114.5	111.9	114.3	113.8	113.8	111.4	105.5	112.7	116.0
73°	96.6	102.7	104.4	102.3	104.3	104.1	103.8	101.6	95.0	102.8	106.0
73.5°	87.3	93.9	95.1	93.5	95.7	95.2	95.0	94.5	88.3	93.9	96.9
74°	79.8	85.8	87.2	85.6	88.9	88.4	88.1	87.3	81.5	87.1	90.4
74.5°	74.1	78.6	79.8	78.5	82.2	81.7	81.3	80.2	74.8	80.4	84.0
75°	68.6	72.2	73.5	72.6	75.4	74.9	74.5	73.0	68.0	73.7	77.6
75.5°	64.8	66.8	67.9	67.4	68.7	68.2	67.7	66.0	64.3	67.1	71.1
76°	61.5	62.4	63.8	63.5	64.5	64.2	63.6	61.9	61.0	62.7	64.7
76.5°	58.4	59.1	60.7	60.4	61.3	61.1	60.5	58.7	57.9	59.5	61.5
77°	55.4	56.1	57.7	57.5	58.4	58.1	57.4	55.6	54.8	56.3	58.5
77.5°	52.4	53.1	54.7	54.6	55.5	55.3	54.6	52.6	52.0	53.4	55.6
78°	49.5	50.1	51.7	51.8	52.6	52.4	51.7	49.7	48.9	50.3	52.6
78.5°	46.6	47.2	48.9	49.0	49.8	49.6	48.9	46.8	46.1	47.4	49.8
79°	43.8	44.3	46.1	46.2	47.1	46.9	46.2	44.0	43.4	44.5	47.0
79.5°	41.0	41.5	43.3	43.6	44.3	44.2	43.5	41.3	40.6	41.8	44.2
80°	38.2	38.7	40.6	40.9	41.7	41.5	40.7	38.6	37.9	39.0	41.5
80.5°	35.6	36.1	38.0	38.4	39.1	38.9	38.1	35.9	35.3	36.4	38.9
81°	33.5	33.4	35.3	35.8	36.6	36.4	35.6	33.3	32.7	33.7	36.3
81.5°	30.8	30.9	32.9	33.1	34.1	33.9	33.0	30.7	30.1	31.2	33.7
82°	28.2	28.4	30.5	30.8	31.6	31.4	30.5	28.2	27.6	28.5	31.2
82.5°	25.6	25.9	28.0	28.4	29.2	29.0	28.1	25.7	25.2	26.1	28.7
83°	23.0	23.4	25.6	26.1	26.8	26.6	25.6	23.2	22.7	23.6	26.3
83.5°	20.6	20.9	23.2	23.7	24.4	24.3	23.3	20.9	20.4	21.2	24.0
84°	18.2	18.5	20.9	21.4	22.1	21.9	21.0	18.6	18.1	18.9	21.6
84.5°	15.9	16.2	18.7	19.2	19.8	19.7	18.8	16.4	15.8	16.6	19.4
85°	13.6	14.0	16.5	16.9	17.5	17.5	16.6	14.3	13.6	14.5	17.2
85.5°	11.6	12.2	14.5	14.8	15.4	15.3	14.4	12.3	11.6	12.7	15.0
86°	9.8	10.3	12.4	12.6	13.2	13.1	12.4	10.6	10.0	11.0	13.0
86.5°	8.0	8.5	10.4	10.5	11.2	11.1	10.5	8.9	8.4	9.2	11.0
87°	6.5	6.9	8.4	8.5	9.2	9.1	8.6	7.2	6.8	7.5	9.1
87.5°	5.1	5.4	6.5	6.4	7.1	7.0	6.6	5.5	5.1	5.8	7.1
88°	3.7	3.9	4.6	4.4	5.1	5.0	4.7	3.8	3.5	4.1	5.1
88.5°	2.8	3.0	2.7	3.6	3.1	3.0	2.8	2.3	2.1	2.5	3.2
89°	2.0	2.1	2.1	2.7	1.2	1.2	1.1	1.0	0.9	1.1	1.4
89.5°	1.1	1.2	1.5	1.9	0.2	0.3	0.3	0.4	0.3	0.3	0.3



TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.3	0.3	0.9	1.1	0.2	0.2	0.2	0.3	0.3	0.3	0.2
90.5°	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2
91°	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2
91.5°	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2
92°	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2
92.5°	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2
93°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
93.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
94°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
94.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
95.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
96°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
96.5°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
98°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
98.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
99°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
99.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
100°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
100.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
101°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
101.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
102°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
102.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
103°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2
103.5°	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2
104°	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2
104.5°	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2
105°	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2
105.5°	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2
106°	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2
106.5°	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3
107°	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3
107.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
108°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
108.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
109°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
109.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
110°	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
110.5°	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
111°	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
111.5°	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
112°	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3



TEST NUMBER: P640231
 CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3
113°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.4	0.4	0.4	0.3
113.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.4	0.4	0.4	0.4	0.4
114°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
114.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
115°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
115.5°	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
116°	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
116.5°	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4
117°	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4
117.5°	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4
118°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.5	0.5	0.5	0.5
118.5°	0.6	0.6	0.6	0.6	0.5	0.4	0.5	0.5	0.5	0.5	0.5
119°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
119.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5
120°	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5
120.5°	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5
121°	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.5
121.5°	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.5
122°	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.5
122.5°	0.7	0.7	0.6	0.7	0.5	0.5	0.6	0.6	0.6	0.6	0.6
123°	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
123.5°	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6
124°	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6
124.5°	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6
125°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.6
125.5°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.6
126°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.6
126.5°	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7
127°	0.8	0.8	0.8	0.8	0.7	0.6	0.7	0.7	0.7	0.7	0.7
127.5°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7
128°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7
128.5°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.7
129°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.7
129.5°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.7
130°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.7
130.5°	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.7
131°	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.8	0.8
131.5°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8
132°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.8
132.5°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.8
133°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.8
133.5°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.8
134°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.8
134.5°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	1.0	0.9	0.8



TEST NUMBER: P640231
 CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9
135.5°	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9
136°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9
136.5°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9
137°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9
137.5°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.0	1.0	0.9
138°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.0	1.0	0.9
138.5°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.1	1.0	0.9
139°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
139.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
140.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
141°	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
141.5°	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0
142°	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0
142.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
143°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
143.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
144°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1
144.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1
145°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1
145.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.1
146°	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.2	1.2	1.2	1.2
146.5°	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
147°	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
147.5°	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
148°	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
148.5°	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
149°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
149.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.2
150°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3
150.5°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
151°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
151.5°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
152°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
152.5°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
153°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
153.5°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.4	1.3
154°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4
154.5°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
155°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
155.5°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
156°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
156.5°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
157°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4



TEST NUMBER: P640231
 CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
158°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.5	1.5	1.5	1.4
158.5°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.5	1.5	1.5	1.5
159°	1.3	1.3	1.3	1.2	1.4	1.4	1.5	1.5	1.5	1.5	1.5
159.5°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
160°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
160.5°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
161°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
161.5°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
162°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
162.5°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
163°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
163.5°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
164°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
164.5°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
165°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
165.5°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
166°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
166.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
167°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
167.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
168°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
168.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
169°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
169.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
170°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
170.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.6	1.5	1.5
171°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.6	1.5	1.5
171.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.6	1.5	1.5
172°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.6	1.5	1.5
172.5°	1.4	1.4	1.3	1.3	1.5	1.5	1.5	1.5	1.6	1.5	1.5
173°	1.4	1.4	1.4	1.3	1.5	1.5	1.5	1.5	1.6	1.5	1.5
173.5°	1.4	1.4	1.4	1.3	1.5	1.5	1.5	1.6	1.6	1.5	1.5
174°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.5	1.5
174.5°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.5
175°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.5
175.5°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
176°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
176.5°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
177°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
177.5°	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
178°	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6
178.5°	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.5
179°	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.5
179.5°	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.5	1.5



TEST NUMBER: P640231
CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2514.8	2514.8	2514.8	2514.8	2514.8	2514.8
0.5°	2514.8	2514.9	2515.0	2515.1	2515.3	2514.9
1°	2514.8	2514.8	2515.0	2514.9	2515.2	2514.6
1.5°	2513.9	2514.2	2514.3	2514.6	2515.0	2514.4
2°	2513.1	2513.4	2513.8	2513.9	2513.8	2513.6
2.5°	2511.6	2512.4	2512.6	2513.2	2513.2	2512.8
3°	2510.5	2510.7	2511.5	2511.8	2511.8	2511.6
3.5°	2508.4	2509.1	2509.9	2510.3	2510.6	2510.1
4°	2506.0	2506.7	2508.0	2508.1	2508.9	2507.9
4.5°	2503.7	2504.4	2505.7	2506.1	2506.4	2505.6
5°	2500.9	2501.7	2503.0	2503.6	2504.1	2502.9
5.5°	2497.8	2498.7	2500.0	2500.9	2501.3	2500.1
6°	2494.3	2495.3	2497.0	2497.9	2497.9	2496.7
6.5°	2490.7	2491.8	2493.6	2494.7	2494.5	2493.3
7°	2486.6	2487.5	2489.6	2490.8	2490.8	2489.5
7.5°	2482.0	2483.2	2485.3	2486.7	2486.5	2485.4
8°	2477.2	2478.4	2481.0	2482.4	2482.4	2481.2
8.5°	2472.1	2473.3	2475.6	2477.3	2477.7	2476.1
9°	2466.9	2468.1	2470.9	2472.3	2472.8	2471.1
9.5°	2461.5	2462.4	2465.3	2467.2	2467.4	2465.9
10°	2455.6	2456.5	2459.5	2461.4	2461.9	2460.4
10.5°	2449.4	2450.4	2453.5	2455.9	2456.0	2454.2
11°	2442.6	2444.0	2447.2	2449.3	2449.5	2448.0
11.5°	2435.8	2437.2	2440.3	2442.4	2442.7	2441.4
12°	2428.5	2429.9	2433.2	2435.7	2435.9	2434.5
12.5°	2421.2	2422.5	2425.9	2428.4	2428.6	2427.2
13°	2413.0	2414.6	2418.5	2420.7	2421.4	2420.0
13.5°	2405.1	2407.1	2410.5	2412.7	2413.5	2411.9
14°	2396.9	2398.2	2402.0	2404.3	2405.5	2403.7
14.5°	2387.9	2389.6	2393.4	2396.2	2397.3	2395.3
15°	2378.9	2380.8	2384.2	2387.3	2388.4	2386.4
15.5°	2369.7	2371.3	2374.7	2378.3	2379.2	2377.3
16°	2360.0	2361.7	2365.5	2368.7	2369.9	2368.0
16.5°	2350.1	2351.7	2355.7	2359.1	2360.6	2358.4
17°	2339.8	2341.4	2345.2	2349.3	2350.6	2348.6
17.5°	2329.4	2330.4	2335.1	2339.0	2340.1	2338.3
18°	2318.1	2319.8	2324.2	2327.6	2329.3	2327.9
18.5°	2307.4	2308.5	2313.2	2316.5	2318.6	2316.7
19°	2295.6	2297.2	2301.9	2305.7	2307.5	2305.6
19.5°	2283.9	2285.4	2289.7	2293.8	2296.0	2294.0
20°	2271.9	2273.3	2277.9	2282.2	2284.2	2282.9
20.5°	2259.3	2260.8	2265.6	2270.0	2272.0	2270.2
21°	2246.3	2247.9	2252.9	2257.5	2259.8	2257.7
21.5°	2233.6	2235.2	2239.8	2244.7	2246.9	2244.9
22°	2220.4	2221.6	2226.6	2231.6	2234.0	2232.4

TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2207.1	2208.2	2213.2	2218.3	2220.8	2219.1
23°	2193.2	2194.1	2199.7	2204.6	2207.5	2205.6
23.5°	2179.5	2179.9	2185.3	2190.5	2193.8	2192.0
24°	2165.2	2165.6	2171.4	2176.4	2179.7	2177.9
24.5°	2150.3	2151.0	2156.3	2161.6	2164.8	2163.5
25°	2135.2	2135.6	2141.5	2147.3	2150.5	2149.1
25.5°	2120.3	2120.4	2126.3	2132.3	2135.6	2134.5
26°	2104.9	2105.3	2111.1	2117.1	2120.6	2119.3
26.5°	2089.2	2089.5	2095.0	2101.1	2105.1	2103.6
27°	2073.0	2073.4	2079.2	2085.9	2089.2	2088.3
27.5°	2056.9	2057.2	2062.9	2069.7	2073.3	2072.5
28°	2040.7	2040.4	2046.4	2053.2	2057.4	2056.5
28.5°	2023.9	2023.6	2029.4	2036.7	2041.1	2039.7
29°	2007.1	2006.6	2012.6	2019.9	2024.6	2023.2
29.5°	1989.9	1989.5	1995.1	2002.8	2007.5	2006.4
30°	1972.8	1972.4	1977.8	1985.5	1990.5	1989.6
30.5°	1955.2	1954.4	1960.1	1968.1	1973.1	1971.9
31°	1937.6	1936.2	1941.9	1949.9	1955.4	1954.6
31.5°	1919.4	1918.2	1923.7	1931.9	1937.7	1936.8
32°	1901.0	1900.2	1905.5	1913.9	1919.6	1919.4
32.5°	1882.8	1881.1	1886.8	1895.8	1901.5	1901.0
33°	1864.2	1862.4	1868.1	1877.0	1883.1	1882.4
33.5°	1845.3	1843.4	1849.2	1857.8	1864.5	1864.0
34°	1826.0	1824.2	1830.2	1838.9	1845.6	1845.6
34.5°	1807.1	1804.4	1810.1	1819.5	1825.9	1826.2
35°	1787.4	1785.0	1790.3	1799.8	1806.7	1806.9
35.5°	1767.7	1765.0	1770.7	1780.4	1787.4	1787.4
36°	1748.2	1744.8	1750.7	1760.1	1767.7	1767.9
36.5°	1727.8	1724.4	1730.5	1739.9	1747.3	1748.1
37°	1706.9	1704.1	1709.5	1719.6	1727.1	1728.2
37.5°	1686.8	1682.8	1688.8	1699.3	1707.0	1708.1
38°	1665.9	1661.9	1667.9	1678.5	1686.4	1687.1
38.5°	1645.3	1640.8	1647.0	1657.1	1665.5	1666.7
39°	1624.5	1619.9	1625.5	1636.6	1644.9	1646.1
39.5°	1603.3	1598.4	1604.1	1614.9	1623.9	1625.1
40°	1582.0	1576.3	1582.3	1593.6	1602.7	1603.9
40.5°	1560.8	1554.7	1560.7	1571.8	1581.0	1582.4
41°	1538.7	1533.1	1538.5	1549.8	1559.6	1560.9
41.5°	1516.7	1510.4	1516.2	1527.9	1538.2	1539.2
42°	1494.2	1488.2	1493.6	1505.1	1514.9	1515.8
42.5°	1470.4	1463.8	1469.8	1481.5	1491.0	1492.3
43°	1446.1	1438.8	1444.2	1456.4	1465.5	1466.7
43.5°	1420.9	1412.6	1418.8	1430.5	1440.3	1441.2
44°	1394.6	1386.8	1392.3	1404.5	1413.7	1414.6
44.5°	1368.6	1360.4	1365.8	1378.1	1387.7	1389.1

TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1342.1	1332.9	1338.6	1350.9	1360.2	1361.8
45.5°	1315.3	1305.7	1311.7	1323.8	1333.8	1335.0
46°	1288.4	1278.7	1283.8	1296.4	1306.2	1307.8
46.5°	1260.7	1251.0	1256.5	1268.8	1279.2	1280.2
47°	1233.1	1223.5	1227.9	1240.2	1251.2	1252.4
47.5°	1205.1	1194.4	1199.9	1213.1	1223.5	1224.9
48°	1177.7	1167.3	1171.6	1184.8	1195.5	1197.3
48.5°	1150.4	1139.1	1143.9	1156.7	1168.5	1169.7
49°	1122.5	1111.0	1116.0	1129.0	1140.7	1142.4
49.5°	1094.5	1084.1	1087.9	1101.4	1112.8	1114.8
50°	1066.5	1055.3	1058.9	1072.4	1084.2	1086.5
50.5°	1038.9	1027.5	1031.6	1044.6	1057.1	1059.1
51°	1011.7	999.3	1004.0	1017.0	1029.9	1031.7
51.5°	983.8	972.5	976.4	989.5	1002.5	1004.8
52°	956.8	944.8	949.1	961.8	974.9	977.8
52.5°	929.8	918.0	922.1	935.2	948.0	950.4
53°	902.6	890.6	895.0	907.4	921.1	923.8
53.5°	875.5	863.8	868.2	880.5	894.1	897.0
54°	849.1	836.6	841.4	853.5	866.8	870.2
54.5°	822.7	811.4	815.3	827.7	840.8	844.4
55°	797.0	785.6	789.4	801.1	814.3	818.3
55.5°	771.2	759.1	763.6	775.1	788.8	791.9
56°	746.5	733.7	738.2	749.7	762.2	766.6
56.5°	721.8	708.9	713.1	724.3	737.2	741.3
57°	697.0	684.3	687.9	699.4	711.0	716.0
57.5°	672.3	659.9	663.3	674.1	686.9	691.3
58°	647.6	635.6	639.4	649.7	662.5	666.6
58.5°	623.3	611.8	615.7	625.6	638.3	642.4
59°	599.6	588.4	591.6	601.6	613.6	618.4
59.5°	576.2	565.5	568.7	578.4	589.9	594.7
60°	553.4	542.4	546.0	555.0	566.5	571.4
60.5°	530.2	520.2	523.5	532.2	543.5	548.1
61°	507.7	498.2	501.6	509.8	520.3	525.4
61.5°	485.8	476.8	479.6	488.0	498.3	503.0
62°	464.8	456.1	458.5	466.5	476.3	481.6
62.5°	443.3	434.6	437.5	444.9	454.2	459.3
63°	422.5	414.2	417.1	424.0	433.5	437.9
63.5°	401.8	394.3	397.0	403.7	412.6	416.2
64°	382.2	374.8	376.9	383.7	391.6	394.6
64.5°	362.3	355.7	357.9	363.8	371.6	372.7
65°	343.3	336.2	339.6	345.0	352.3	352.2
65.5°	324.6	318.3	321.8	326.9	330.9	333.5
66°	306.3	300.4	304.0	308.9	312.7	313.2
66.5°	288.2	282.6	286.1	290.8	294.5	292.9
67°	271.0	264.7	268.3	272.7	276.3	272.7

TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	254.3	248.3	250.5	254.7	258.1	252.5
68°	237.9	232.2	234.2	238.4	241.3	235.2
68.5°	222.1	216.4	218.7	222.3	224.5	218.3
69°	206.7	201.7	203.6	207.3	208.0	202.0
69.5°	192.0	187.2	189.0	192.2	192.4	186.2
70°	177.8	173.3	175.4	178.7	178.0	171.3
70.5°	164.4	159.9	161.8	164.9	164.0	157.2
71°	151.6	147.2	149.4	151.9	150.6	143.8
71.5°	139.2	135.2	137.2	139.7	138.5	131.0
72°	127.7	124.1	125.9	128.3	126.6	118.7
72.5°	117.1	113.5	115.3	117.5	115.8	106.9
73°	107.0	103.7	105.5	107.4	105.5	96.6
73.5°	98.0	94.8	96.3	97.9	96.2	87.3
74°	91.5	87.0	88.1	89.7	87.7	79.8
74.5°	85.1	80.0	80.8	82.1	80.1	74.1
75°	78.6	74.0	74.5	75.4	73.5	68.6
75.5°	72.2	68.7	69.2	69.5	67.8	64.8
76°	65.7	64.8	65.0	65.0	63.1	61.5
76.5°	62.5	61.7	61.9	61.8	59.7	58.4
77°	59.5	58.7	59.0	58.9	56.7	55.4
77.5°	56.6	55.8	56.0	55.9	53.7	52.4
78°	53.7	52.9	53.2	53.0	50.7	49.5
78.5°	50.8	50.1	50.3	50.1	47.8	46.6
79°	48.0	47.3	47.6	47.3	44.9	43.8
79.5°	45.4	44.6	44.8	44.5	42.1	41.0
80°	42.7	41.9	42.1	41.7	39.3	38.2
80.5°	40.1	39.3	39.5	39.1	36.7	35.6
81°	37.4	36.7	36.9	36.4	34.0	33.5
81.5°	35.0	34.2	34.3	33.8	31.5	30.8
82°	32.4	31.8	31.9	31.4	29.0	28.2
82.5°	30.0	29.3	29.5	28.9	26.5	25.6
83°	27.5	26.9	27.1	26.5	23.9	23.0
83.5°	25.2	24.5	24.6	24.0	21.4	20.6
84°	22.8	22.1	22.2	21.6	19.0	18.2
84.5°	20.5	19.8	19.9	19.3	16.7	15.9
85°	18.2	17.5	17.7	17.1	14.6	13.6
85.5°	16.0	15.3	15.4	15.0	12.6	11.6
86°	13.8	13.2	13.2	12.9	10.6	9.8
86.5°	11.7	11.0	11.1	10.8	8.8	8.0
87°	9.7	8.9	9.0	8.8	7.2	6.5
87.5°	7.6	6.8	6.9	6.9	5.6	5.1
88°	5.5	4.8	4.9	4.9	4.1	3.7
88.5°	3.5	2.8	3.0	3.0	3.3	2.8
89°	1.5	2.1	2.3	2.3	2.6	2.0
89.5°	0.3	1.5	1.6	1.6	1.8	1.1



TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.8	0.9	0.9	1.1	0.3
90.5°	0.2	0.2	0.2	0.2	0.3	0.2
91°	0.2	0.2	0.2	0.2	0.3	0.2
91.5°	0.2	0.2	0.2	0.2	0.3	0.2
92°	0.2	0.2	0.2	0.2	0.3	0.2
92.5°	0.2	0.2	0.2	0.2	0.3	0.2
93°	0.2	0.2	0.2	0.2	0.2	0.2
93.5°	0.2	0.2	0.2	0.2	0.2	0.2
94°	0.2	0.2	0.2	0.2	0.2	0.2
94.5°	0.2	0.2	0.2	0.2	0.2	0.2
95°	0.2	0.2	0.2	0.2	0.2	0.2
95.5°	0.2	0.2	0.2	0.2	0.2	0.2
96°	0.2	0.2	0.2	0.2	0.2	0.3
96.5°	0.2	0.2	0.2	0.2	0.2	0.3
97°	0.2	0.2	0.2	0.2	0.2	0.3
97.5°	0.2	0.2	0.2	0.2	0.2	0.3
98°	0.2	0.3	0.2	0.2	0.2	0.3
98.5°	0.2	0.3	0.3	0.2	0.3	0.3
99°	0.2	0.3	0.3	0.3	0.3	0.3
99.5°	0.2	0.3	0.3	0.3	0.3	0.3
100°	0.2	0.3	0.3	0.3	0.3	0.3
100.5°	0.2	0.3	0.3	0.3	0.3	0.3
101°	0.2	0.3	0.3	0.3	0.3	0.3
101.5°	0.2	0.3	0.3	0.3	0.3	0.3
102°	0.2	0.3	0.3	0.3	0.3	0.3
102.5°	0.2	0.3	0.3	0.3	0.3	0.3
103°	0.2	0.3	0.3	0.3	0.3	0.3
103.5°	0.2	0.3	0.3	0.3	0.3	0.4
104°	0.2	0.3	0.3	0.3	0.3	0.4
104.5°	0.2	0.3	0.3	0.3	0.3	0.4
105°	0.2	0.3	0.3	0.3	0.3	0.4
105.5°	0.2	0.3	0.3	0.3	0.3	0.4
106°	0.2	0.3	0.3	0.3	0.3	0.4
106.5°	0.2	0.4	0.3	0.3	0.4	0.4
107°	0.2	0.4	0.4	0.4	0.4	0.4
107.5°	0.3	0.4	0.4	0.4	0.4	0.4
108°	0.3	0.4	0.4	0.4	0.4	0.4
108.5°	0.3	0.4	0.4	0.4	0.4	0.4
109°	0.3	0.4	0.4	0.4	0.4	0.4
109.5°	0.3	0.4	0.4	0.4	0.4	0.4
110°	0.3	0.4	0.4	0.4	0.4	0.5
110.5°	0.3	0.4	0.4	0.4	0.4	0.5
111°	0.3	0.4	0.4	0.4	0.4	0.5
111.5°	0.3	0.4	0.4	0.4	0.4	0.5
112°	0.3	0.4	0.4	0.4	0.4	0.5



TEST NUMBER: P640231

CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.3	0.4	0.4	0.4	0.5	0.5
113°	0.3	0.5	0.4	0.5	0.5	0.5
113.5°	0.3	0.5	0.5	0.5	0.5	0.5
114°	0.4	0.5	0.5	0.5	0.5	0.5
114.5°	0.4	0.5	0.5	0.5	0.5	0.5
115°	0.4	0.5	0.5	0.5	0.5	0.5
115.5°	0.4	0.5	0.5	0.5	0.5	0.6
116°	0.4	0.5	0.5	0.5	0.5	0.6
116.5°	0.4	0.5	0.5	0.5	0.5	0.6
117°	0.4	0.5	0.5	0.5	0.5	0.6
117.5°	0.4	0.5	0.5	0.5	0.6	0.6
118°	0.4	0.6	0.5	0.5	0.6	0.6
118.5°	0.4	0.6	0.6	0.6	0.6	0.6
119°	0.5	0.6	0.6	0.6	0.6	0.6
119.5°	0.5	0.6	0.6	0.6	0.6	0.6
120°	0.5	0.6	0.6	0.6	0.6	0.7
120.5°	0.5	0.6	0.6	0.6	0.6	0.7
121°	0.5	0.6	0.6	0.6	0.6	0.7
121.5°	0.5	0.6	0.6	0.6	0.6	0.7
122°	0.5	0.6	0.6	0.6	0.6	0.7
122.5°	0.5	0.7	0.6	0.6	0.7	0.7
123°	0.6	0.7	0.7	0.7	0.7	0.7
123.5°	0.6	0.7	0.7	0.7	0.7	0.7
124°	0.6	0.7	0.7	0.7	0.7	0.7
124.5°	0.6	0.7	0.7	0.7	0.7	0.7
125°	0.6	0.7	0.7	0.7	0.7	0.8
125.5°	0.6	0.7	0.7	0.7	0.7	0.8
126°	0.6	0.7	0.7	0.7	0.7	0.8
126.5°	0.6	0.7	0.7	0.7	0.7	0.8
127°	0.6	0.8	0.7	0.7	0.8	0.8
127.5°	0.7	0.8	0.8	0.8	0.8	0.8
128°	0.7	0.8	0.8	0.8	0.8	0.8
128.5°	0.7	0.8	0.8	0.8	0.8	0.8
129°	0.7	0.8	0.8	0.8	0.8	0.8
129.5°	0.7	0.8	0.8	0.8	0.8	0.8
130°	0.7	0.8	0.8	0.8	0.8	0.8
130.5°	0.7	0.8	0.8	0.8	0.8	0.9
131°	0.8	0.8	0.8	0.8	0.8	0.9
131.5°	0.8	0.9	0.8	0.8	0.9	0.9
132°	0.8	0.9	0.9	0.9	0.9	0.9
132.5°	0.8	0.9	0.9	0.9	0.9	0.9
133°	0.8	0.9	0.9	0.9	0.9	0.9
133.5°	0.8	0.9	0.9	0.9	0.9	0.9
134°	0.8	0.9	0.9	0.9	0.9	0.9
134.5°	0.8	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P640231
 CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.9	0.9	0.9	0.9	0.9	0.9
135.5°	0.9	0.9	0.9	0.9	0.9	1.0
136°	0.9	1.0	0.9	0.9	1.0	1.0
136.5°	0.9	1.0	1.0	1.0	1.0	1.0
137°	0.9	1.0	1.0	1.0	1.0	1.0
137.5°	0.9	1.0	1.0	1.0	1.0	1.0
138°	0.9	1.0	1.0	1.0	1.0	1.0
138.5°	0.9	1.0	1.0	1.0	1.0	1.0
139°	1.0	1.0	1.0	1.0	1.0	1.0
139.5°	1.0	1.0	1.0	1.0	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0	1.0
140.5°	1.0	1.0	1.0	1.0	1.0	1.0
141°	1.0	1.0	1.0	1.0	1.0	1.1
141.5°	1.0	1.0	1.0	1.0	1.0	1.1
142°	1.0	1.1	1.0	1.0	1.0	1.1
142.5°	1.1	1.1	1.1	1.1	1.1	1.1
143°	1.1	1.1	1.1	1.1	1.1	1.1
143.5°	1.1	1.1	1.1	1.1	1.1	1.1
144°	1.1	1.1	1.1	1.1	1.1	1.1
144.5°	1.1	1.1	1.1	1.1	1.1	1.1
145°	1.1	1.1	1.1	1.1	1.1	1.1
145.5°	1.1	1.1	1.1	1.1	1.1	1.1
146°	1.2	1.1	1.1	1.1	1.1	1.1
146.5°	1.2	1.1	1.1	1.1	1.1	1.1
147°	1.2	1.1	1.1	1.1	1.1	1.2
147.5°	1.2	1.1	1.1	1.1	1.1	1.2
148°	1.2	1.1	1.1	1.1	1.2	1.2
148.5°	1.2	1.1	1.1	1.1	1.2	1.2
149°	1.2	1.2	1.1	1.2	1.2	1.2
149.5°	1.2	1.2	1.2	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.2	1.2	1.2
150.5°	1.3	1.2	1.2	1.2	1.2	1.2
151°	1.3	1.2	1.2	1.2	1.2	1.2
151.5°	1.3	1.2	1.2	1.2	1.2	1.2
152°	1.3	1.2	1.2	1.2	1.2	1.2
152.5°	1.3	1.2	1.2	1.2	1.2	1.2
153°	1.3	1.2	1.2	1.2	1.2	1.2
153.5°	1.3	1.2	1.2	1.2	1.2	1.2
154°	1.3	1.2	1.2	1.2	1.2	1.2
154.5°	1.4	1.2	1.2	1.2	1.2	1.2
155°	1.4	1.2	1.2	1.2	1.2	1.3
155.5°	1.4	1.2	1.2	1.2	1.2	1.3
156°	1.4	1.2	1.2	1.2	1.3	1.3
156.5°	1.4	1.2	1.2	1.2	1.3	1.3
157°	1.4	1.2	1.2	1.2	1.3	1.3



TEST NUMBER: P640231
 CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.4	1.2	1.2	1.2	1.3	1.3
158°	1.4	1.2	1.2	1.2	1.3	1.3
158.5°	1.5	1.2	1.2	1.2	1.3	1.3
159°	1.5	1.2	1.2	1.2	1.3	1.3
159.5°	1.5	1.2	1.2	1.3	1.3	1.3
160°	1.5	1.2	1.2	1.3	1.3	1.3
160.5°	1.5	1.2	1.2	1.3	1.3	1.3
161°	1.5	1.2	1.2	1.3	1.3	1.3
161.5°	1.5	1.2	1.2	1.3	1.3	1.3
162°	1.5	1.2	1.2	1.3	1.3	1.3
162.5°	1.5	1.2	1.2	1.3	1.3	1.3
163°	1.5	1.2	1.2	1.3	1.3	1.3
163.5°	1.5	1.2	1.2	1.3	1.3	1.3
164°	1.5	1.2	1.2	1.3	1.3	1.3
164.5°	1.5	1.2	1.2	1.3	1.3	1.3
165°	1.5	1.2	1.2	1.3	1.3	1.3
165.5°	1.5	1.2	1.3	1.3	1.3	1.3
166°	1.5	1.2	1.3	1.3	1.3	1.3
166.5°	1.5	1.2	1.3	1.3	1.3	1.3
167°	1.5	1.2	1.3	1.3	1.3	1.3
167.5°	1.5	1.2	1.3	1.3	1.3	1.3
168°	1.5	1.2	1.3	1.3	1.3	1.3
168.5°	1.5	1.3	1.3	1.3	1.3	1.3
169°	1.5	1.3	1.3	1.3	1.3	1.3
169.5°	1.5	1.3	1.3	1.3	1.3	1.3
170°	1.5	1.3	1.3	1.3	1.3	1.3
170.5°	1.5	1.3	1.3	1.3	1.3	1.3
171°	1.5	1.3	1.3	1.3	1.3	1.3
171.5°	1.5	1.3	1.3	1.3	1.3	1.3
172°	1.5	1.3	1.3	1.3	1.3	1.3
172.5°	1.5	1.3	1.3	1.4	1.4	1.4
173°	1.5	1.3	1.3	1.4	1.4	1.4
173.5°	1.5	1.3	1.3	1.4	1.4	1.4
174°	1.5	1.3	1.4	1.4	1.4	1.4
174.5°	1.5	1.4	1.4	1.4	1.4	1.4
175°	1.6	1.4	1.4	1.4	1.4	1.4
175.5°	1.6	1.4	1.4	1.4	1.4	1.4
176°	1.6	1.4	1.4	1.4	1.4	1.4
176.5°	1.6	1.4	1.4	1.4	1.4	1.4
177°	1.6	1.4	1.4	1.4	1.4	1.4
177.5°	1.6	1.5	1.5	1.5	1.5	1.4
178°	1.6	1.5	1.5	1.5	1.5	1.5
178.5°	1.6	1.5	1.5	1.5	1.5	1.5
179°	1.6	1.5	1.5	1.5	1.5	1.5
179.5°	1.6	1.6	1.5	1.5	1.5	1.5



TEST NUMBER: P640231
CATALOG NUMBER: LCR850RD9FSE010-50W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.5	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)