

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: P640229

Luminaire Tested: LCR850RD9FSE010-50W-3500K

Issue Date: 2/13/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640229  
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-3500K  
Description: LCR 8  
Light Source: 3500K CCT, 93 CRI LEDS  
Ballast/Driver: -

**Summary**

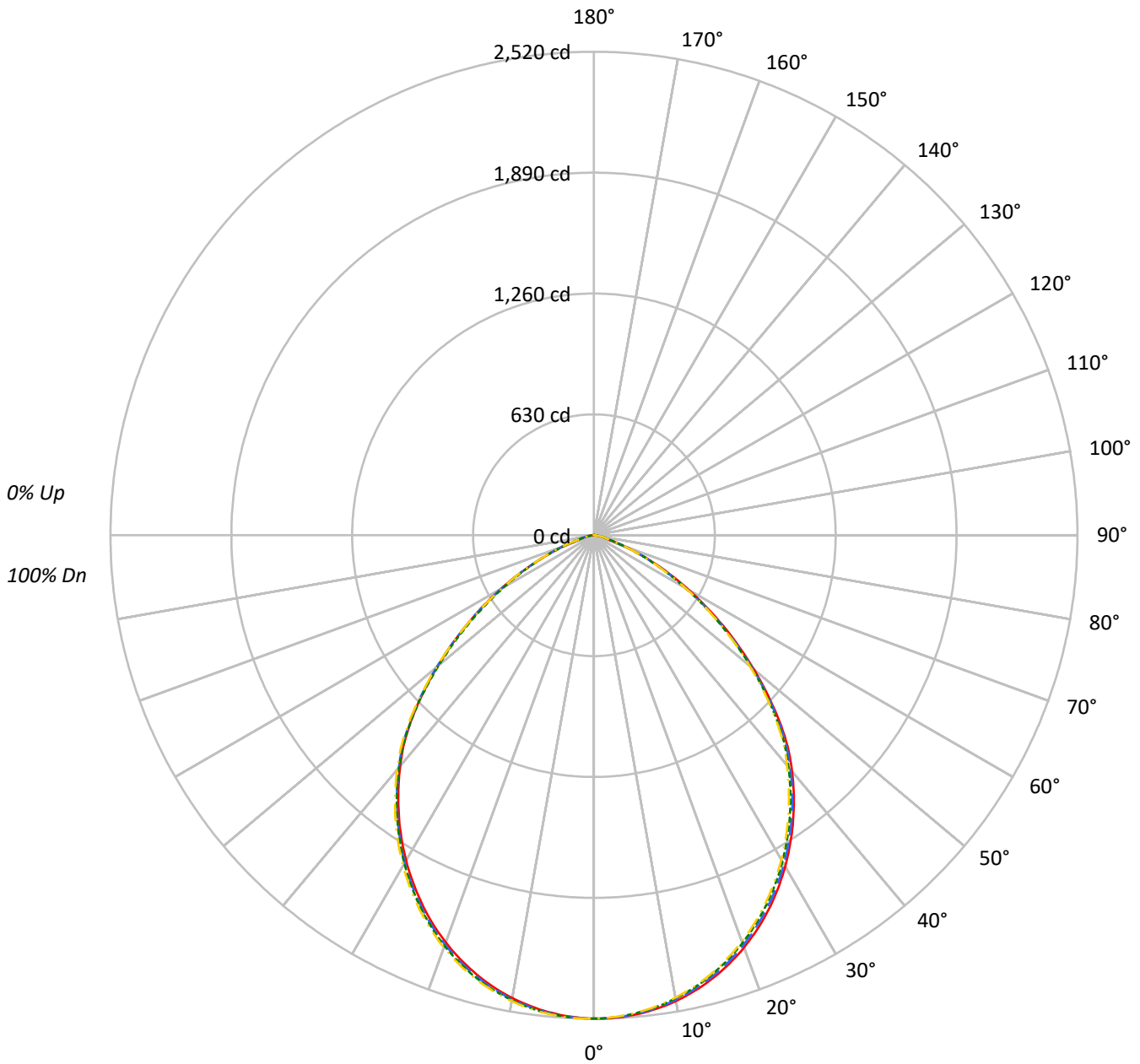
Lumens per Lamp: N/A  
Luminaire Lumens: 5215.0 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 50.1  
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: P640229  
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### Luminous Intensity Polar Plot



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



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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		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°	77698	77698	77698	77698
5°	77624	77419	77373	77586
10°	77187	76749	76702	77068
15°	76331	75705	75619	76149
20°	75058	74241	74107	74743
25°	73261	72325	72141	72801
30°	70978	69939	69711	70366
35°	68147	67044	66762	67323
40°	64688	63525	63247	63573
45°	59500	58484	58214	58240
50°	52223	51235	51129	50722
55°	44079	42918	43138	42316
60°	35308	34080	34555	33519
65°	25749	24859	24903	24582
70°	15471	15742	15066	15652
75°	8197	9007	8114	8828
80°	6801	7405	6730	7441
85°	4847	6227	4812	6192

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 59500 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.5	4.6
10°-20°	670.1	12.9
20°-30°	981.9	18.8
30°-40°	1116.3	21.4
40°-50°	1031.2	19.8
50°-60°	718.3	13.8
60°-70°	345.8	6.6
70°-80°	90.6	1.7
80°-90°	19.0	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°	1889.5	36.2
0°-40°	3005.9	57.6
0°-60°	4755.4	91.2
0°-90°	5210.8	99.9
90°-120°	1.0	0.0
90°-150°	3.0	0.1
90°-180°	4.0	0.1
0°-180°	5215.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2520	2520	2520	2520	2520	
5°	2508	2501	2500	2506	2508	238
15°	2391	2371	2369	2385	2391	674
25°	2153	2126	2120	2140	2153	990
35°	1810	1781	1774	1788	1810	1130
45°	1364	1341	1335	1336	1364	1047
55°	820	798	802	787	820	734
65°	353	341	341	337	353	354
75°	69	76	68	74	69	87
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7
0.5°	2519.8	2519.8	2519.7	2519.4	2519.3	2519.1	2519.1	2519.0	2518.9	2519.4	2519.1
1°	2519.5	2519.9	2519.0	2518.5	2518.7	2517.9	2518.1	2518.1	2518.0	2518.6	2518.7
1.5°	2519.3	2518.9	2518.1	2517.6	2517.4	2516.4	2516.7	2516.7	2517.0	2517.7	2518.2
2°	2518.5	2518.3	2516.9	2516.2	2515.9	2515.3	2515.3	2515.3	2515.5	2516.3	2516.8
2.5°	2517.7	2517.0	2515.8	2514.7	2514.5	2513.2	2513.3	2513.4	2513.4	2514.4	2515.5
3°	2516.5	2515.6	2514.1	2512.9	2512.4	2510.9	2511.1	2511.0	2511.5	2512.4	2513.9
3.5°	2514.9	2513.6	2512.2	2510.7	2510.2	2508.6	2508.1	2508.5	2509.0	2510.4	2511.6
4°	2512.7	2511.5	2509.8	2508.3	2507.4	2505.8	2505.4	2505.8	2506.3	2507.9	2509.1
4.5°	2510.4	2509.2	2507.4	2505.6	2504.3	2502.8	2502.5	2502.7	2503.0	2504.8	2506.4
5°	2507.7	2506.3	2504.4	2502.5	2501.1	2499.3	2499.0	2499.3	2499.6	2501.8	2503.6
5.5°	2504.9	2503.3	2501.1	2498.8	2497.3	2495.6	2495.4	2495.4	2496.1	2498.4	2500.4
6°	2501.5	2500.0	2497.3	2494.9	2493.2	2491.7	2491.1	2491.1	2492.1	2494.4	2496.5
6.5°	2498.1	2496.4	2493.7	2490.8	2489.4	2487.2	2486.7	2486.6	2487.9	2490.7	2492.7
7°	2494.3	2492.1	2489.8	2486.1	2484.8	2482.7	2482.0	2481.7	2483.3	2486.3	2488.4
7.5°	2490.2	2488.1	2485.2	2481.4	2480.2	2477.3	2476.9	2476.9	2478.5	2481.3	2483.7
8°	2485.9	2483.3	2480.6	2476.7	2474.9	2472.5	2471.6	2471.9	2473.2	2476.3	2479.0
8.5°	2480.9	2478.5	2475.5	2471.1	2469.5	2466.7	2466.1	2466.3	2467.9	2470.7	2473.9
9°	2475.9	2473.4	2470.0	2465.1	2463.7	2461.0	2459.9	2460.6	2462.0	2465.2	2468.6
9.5°	2470.6	2467.8	2463.8	2459.4	2457.5	2455.0	2453.8	2454.2	2456.0	2459.2	2462.5
10°	2465.1	2462.0	2458.2	2453.1	2451.1	2448.6	2447.1	2448.0	2449.6	2452.8	2456.3
10.5°	2458.9	2455.8	2451.7	2446.8	2444.6	2441.8	2440.1	2441.1	2442.8	2446.3	2449.7
11°	2452.7	2449.5	2445.1	2440.1	2437.9	2434.7	2433.0	2434.0	2435.9	2439.4	2443.1
11.5°	2446.1	2442.6	2438.1	2433.1	2430.4	2427.3	2425.7	2426.3	2428.9	2431.9	2436.3
12°	2439.2	2435.8	2430.9	2425.7	2422.6	2419.5	2418.2	2418.5	2421.0	2424.5	2428.9
12.5°	2431.9	2428.3	2423.3	2417.8	2415.2	2411.7	2409.9	2410.8	2412.8	2416.8	2421.3
13°	2424.6	2420.7	2415.4	2410.1	2406.7	2403.3	2402.0	2402.5	2404.7	2408.8	2413.3
13.5°	2416.5	2412.7	2407.3	2401.6	2398.8	2394.5	2393.1	2393.8	2396.2	2400.6	2404.9
14°	2408.3	2404.4	2398.8	2392.5	2389.6	2385.6	2384.3	2384.7	2387.3	2391.8	2396.3
14.5°	2399.9	2396.0	2390.2	2383.7	2380.8	2376.8	2374.9	2375.4	2378.3	2382.6	2387.2
15°	2391.0	2387.3	2381.3	2374.4	2371.4	2367.0	2365.4	2366.2	2368.7	2373.1	2378.0
15.5°	2381.9	2378.4	2371.7	2365.1	2362.0	2357.3	2355.6	2355.8	2358.8	2363.8	2368.6
16°	2372.5	2368.7	2362.1	2355.0	2351.6	2347.3	2345.2	2345.3	2348.9	2353.7	2359.1
16.5°	2363.0	2359.1	2351.8	2345.1	2341.5	2337.3	2335.1	2335.4	2338.3	2343.4	2348.8
17°	2353.1	2348.6	2342.1	2334.9	2331.1	2326.4	2323.7	2324.7	2327.8	2333.1	2338.5
17.5°	2342.8	2338.5	2331.4	2324.3	2320.2	2315.6	2312.6	2313.7	2317.1	2322.2	2328.1
18°	2332.4	2327.7	2320.8	2313.4	2309.5	2304.1	2301.4	2302.4	2306.0	2311.3	2316.9
18.5°	2321.2	2316.4	2309.3	2301.7	2297.7	2292.6	2290.3	2290.8	2294.4	2300.0	2305.8
19°	2310.0	2305.0	2298.4	2290.4	2286.2	2281.0	2278.5	2279.2	2282.4	2288.3	2294.2
19.5°	2298.4	2293.6	2286.7	2278.7	2274.6	2269.3	2266.2	2266.9	2270.5	2276.1	2282.2
20°	2287.3	2282.0	2274.8	2266.6	2262.4	2256.8	2254.1	2254.4	2258.3	2264.3	2270.0
20.5°	2274.5	2269.5	2262.2	2253.8	2249.7	2244.1	2241.5	2241.8	2245.7	2251.4	2257.5
21°	2262.1	2257.3	2249.7	2241.1	2236.9	2231.2	2228.4	2228.9	2232.7	2238.8	2244.6
21.5°	2249.3	2244.6	2236.8	2228.2	2224.2	2218.1	2215.2	2215.4	2220.0	2225.9	2231.8
22°	2236.7	2231.8	2224.0	2214.8	2210.5	2204.9	2202.0	2202.0	2206.2	2212.3	2218.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2223.4	2218.1	2210.7	2201.6	2196.8	2191.3	2188.3	2188.4	2192.7	2199.1	2205.1
23°	2209.9	2204.8	2197.2	2188.1	2183.3	2177.1	2174.0	2174.5	2178.9	2185.2	2191.2
23.5°	2196.2	2191.2	2183.1	2173.9	2169.4	2163.0	2159.9	2160.4	2164.6	2171.0	2177.1
24°	2182.1	2176.6	2169.1	2159.8	2154.8	2148.7	2145.4	2145.8	2149.8	2156.8	2162.9
24.5°	2167.7	2162.4	2154.3	2145.1	2140.5	2133.9	2130.6	2130.9	2135.4	2141.7	2148.1
25°	2153.2	2148.0	2139.9	2130.2	2125.7	2118.8	2115.3	2115.8	2120.3	2126.9	2133.4
25.5°	2138.6	2133.4	2124.7	2115.6	2110.6	2104.1	2100.4	2101.2	2105.0	2111.9	2117.9
26°	2123.4	2118.1	2109.8	2100.2	2095.1	2088.6	2084.7	2085.4	2089.4	2096.3	2102.6
26.5°	2107.7	2102.5	2094.5	2084.8	2079.8	2072.9	2069.0	2069.2	2073.8	2080.7	2086.9
27°	2092.3	2087.0	2079.2	2068.9	2063.9	2056.8	2053.0	2053.3	2057.6	2064.7	2071.2
27.5°	2076.4	2071.1	2062.9	2052.5	2047.9	2041.0	2037.0	2037.5	2041.6	2048.6	2055.2
28°	2060.4	2054.6	2046.2	2036.7	2031.5	2024.5	2019.9	2020.7	2025.0	2032.1	2038.3
28.5°	2043.6	2038.4	2030.0	2019.8	2015.2	2007.9	2003.7	2004.2	2008.6	2015.8	2021.7
29°	2027.1	2022.2	2013.7	2003.2	1998.4	1991.0	1986.7	1987.3	1992.1	1999.0	2005.0
29.5°	2010.3	2005.1	1997.1	1986.2	1981.4	1973.9	1969.7	1970.1	1975.0	1981.7	1987.9
30°	1993.4	1987.8	1979.9	1969.1	1964.2	1956.7	1952.4	1952.7	1957.8	1964.6	1970.5
30.5°	1975.7	1970.5	1962.5	1952.2	1946.8	1939.3	1934.7	1935.5	1940.1	1947.2	1952.8
31°	1958.4	1953.4	1944.9	1934.4	1929.0	1921.8	1916.9	1917.6	1922.4	1929.4	1935.3
31.5°	1940.6	1935.4	1926.9	1916.6	1911.3	1903.9	1899.2	1899.7	1904.5	1911.0	1917.3
32°	1923.0	1917.3	1909.1	1898.6	1893.5	1885.5	1880.7	1881.2	1886.4	1893.1	1899.0
32.5°	1904.6	1899.1	1891.3	1880.2	1875.5	1867.9	1862.8	1863.5	1868.4	1875.2	1881.2
33°	1886.0	1881.2	1872.4	1862.0	1857.1	1849.1	1843.8	1844.4	1849.5	1856.2	1862.2
33.5°	1867.6	1862.1	1853.8	1843.4	1838.3	1830.2	1824.9	1826.0	1830.9	1837.6	1843.5
34°	1849.1	1843.8	1835.3	1824.6	1819.3	1811.2	1806.4	1806.9	1812.0	1818.5	1824.6
34.5°	1829.7	1824.0	1816.2	1805.4	1800.1	1792.2	1787.2	1788.0	1792.7	1799.7	1805.4
35°	1810.3	1805.4	1796.9	1785.4	1781.0	1772.9	1767.9	1768.5	1773.5	1780.2	1785.9
35.5°	1790.8	1786.2	1777.8	1766.9	1761.3	1753.3	1748.1	1749.0	1754.3	1761.1	1766.2
36°	1771.3	1766.0	1757.9	1747.1	1741.7	1734.0	1728.6	1729.2	1734.4	1741.3	1746.3
36.5°	1751.4	1746.4	1738.0	1727.0	1722.1	1714.1	1709.2	1709.7	1714.7	1721.5	1726.9
37°	1731.5	1726.2	1717.2	1707.2	1701.9	1694.1	1688.6	1689.1	1694.5	1701.3	1706.3
37.5°	1711.3	1706.0	1697.6	1686.7	1681.6	1673.8	1668.3	1669.1	1674.3	1681.1	1685.4
38°	1690.3	1685.3	1676.9	1666.4	1661.3	1653.6	1648.2	1648.7	1653.8	1660.2	1665.3
38.5°	1669.9	1665.1	1656.2	1645.9	1640.6	1632.6	1627.7	1628.4	1633.3	1639.8	1644.9
39°	1649.3	1644.1	1635.4	1624.8	1620.1	1612.2	1607.0	1607.7	1612.6	1619.0	1623.6
39.5°	1628.3	1622.9	1614.8	1604.1	1599.2	1591.1	1586.6	1587.2	1592.1	1598.1	1602.7
40°	1607.0	1601.8	1593.4	1582.4	1578.1	1570.6	1565.5	1566.2	1571.2	1577.1	1581.3
40.5°	1585.4	1580.2	1572.6	1561.7	1556.7	1549.3	1544.8	1545.3	1550.1	1556.0	1560.2
41°	1563.9	1558.8	1550.9	1539.8	1535.6	1528.3	1523.6	1523.9	1528.8	1534.9	1538.6
41.5°	1542.1	1536.8	1529.0	1517.8	1514.3	1506.4	1502.0	1502.3	1507.4	1513.0	1516.9
42°	1518.7	1514.2	1506.0	1495.4	1491.3	1484.0	1480.0	1480.5	1485.3	1490.7	1494.6
42.5°	1495.2	1490.2	1482.3	1471.5	1468.0	1460.7	1456.8	1457.5	1462.0	1467.4	1471.5
43°	1469.5	1464.8	1457.8	1446.4	1444.0	1436.9	1433.0	1433.7	1437.6	1443.2	1447.3
43.5°	1443.9	1439.4	1431.8	1421.6	1418.3	1412.0	1408.2	1408.7	1412.4	1417.9	1421.7
44°	1417.4	1413.1	1405.8	1395.4	1393.1	1386.4	1382.9	1382.8	1387.2	1392.2	1395.7
44.5°	1391.8	1386.5	1379.8	1369.5	1367.0	1360.8	1357.3	1357.2	1361.3	1366.1	1369.7



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CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1364.4	1360.1	1353.2	1342.3	1341.1	1334.7	1331.0	1331.3	1334.9	1340.4	1344.1
45.5°	1337.6	1333.3	1325.7	1316.4	1314.4	1308.6	1304.3	1304.9	1308.5	1313.6	1316.3
46°	1310.3	1305.7	1298.8	1289.6	1287.4	1281.9	1277.7	1278.6	1282.2	1286.9	1289.4
46.5°	1282.7	1278.3	1271.5	1261.6	1260.8	1254.7	1251.0	1251.8	1255.5	1260.1	1262.7
47°	1254.8	1250.6	1244.1	1234.3	1233.3	1227.8	1224.0	1224.5	1228.6	1232.6	1235.4
47.5°	1227.2	1223.3	1216.6	1207.0	1205.7	1200.0	1196.3	1197.3	1201.1	1205.6	1207.3
48°	1199.6	1195.6	1188.3	1179.4	1178.4	1173.1	1169.2	1170.5	1174.3	1178.8	1179.7
48.5°	1171.9	1167.7	1160.8	1150.9	1150.8	1145.7	1142.1	1143.5	1147.3	1150.9	1152.7
49°	1144.6	1139.8	1133.2	1123.4	1123.2	1118.1	1115.0	1115.9	1120.3	1123.8	1125.9
49.5°	1116.9	1112.2	1105.8	1096.0	1096.3	1090.3	1087.7	1088.8	1093.3	1096.4	1097.6
50°	1088.6	1084.2	1077.6	1068.4	1068.0	1063.1	1060.0	1061.9	1065.8	1069.4	1070.4
50.5°	1061.1	1056.8	1049.5	1040.2	1040.2	1035.8	1033.1	1034.7	1039.4	1042.1	1042.3
51°	1033.6	1029.3	1022.2	1012.5	1013.1	1008.2	1006.3	1007.7	1011.9	1015.0	1015.8
51.5°	1006.7	1001.5	995.1	985.4	985.7	981.2	979.0	981.1	985.5	988.0	988.6
52°	979.7	974.6	967.7	958.0	959.2	954.3	952.5	954.6	959.0	961.4	961.7
52.5°	952.2	947.6	940.3	931.0	931.3	927.5	925.2	927.8	931.8	934.7	934.4
53°	925.6	920.7	913.3	904.1	904.1	900.0	899.2	901.4	906.1	908.4	907.6
53.5°	898.7	894.0	886.4	876.7	877.8	873.2	872.3	875.3	879.3	882.1	880.9
54°	871.9	866.8	859.7	849.6	850.9	847.4	846.0	849.3	853.6	855.7	854.8
54.5°	846.1	841.0	833.1	823.9	824.6	821.2	819.7	822.9	827.4	829.4	828.7
55°	819.9	814.7	807.0	797.8	798.3	795.7	794.5	797.6	802.4	804.4	802.1
55.5°	793.4	788.7	780.9	771.5	772.3	769.2	768.8	772.5	776.5	778.6	776.8
56°	768.1	762.8	755.0	745.5	747.4	744.5	744.2	748.0	752.0	754.1	752.2
56.5°	742.7	737.4	729.0	720.0	722.6	719.8	719.8	723.5	727.7	729.6	727.6
57°	717.3	712.2	703.8	694.7	697.7	695.1	695.3	699.0	703.3	705.1	702.9
57.5°	692.7	687.3	679.1	669.4	672.9	670.4	670.8	674.5	678.9	680.7	678.3
58°	667.9	663.3	654.6	645.4	648.0	645.7	646.3	650.1	654.5	656.2	653.7
58.5°	643.7	638.3	630.1	620.7	623.8	621.6	621.9	626.1	630.6	632.3	629.2
59°	619.6	614.5	605.9	596.6	599.9	597.4	598.2	602.0	606.8	608.2	605.2
59.5°	595.9	590.7	582.4	572.6	576.4	573.8	574.5	579.0	583.3	585.0	581.4
60°	572.5	567.4	558.7	549.9	552.6	550.6	550.9	555.6	560.3	561.5	558.1
60.5°	549.2	544.0	535.5	526.3	529.9	528.0	528.4	533.0	537.3	538.8	534.8
61°	526.4	521.7	512.8	504.2	507.6	505.6	506.0	510.2	515.0	516.4	512.4
61.5°	503.9	499.0	490.7	481.9	485.5	483.2	483.9	488.4	492.9	493.9	489.9
62°	482.5	477.5	468.7	460.2	463.8	461.5	462.3	466.5	471.2	472.7	468.2
62.5°	460.2	455.2	446.7	438.1	442.0	440.2	440.5	445.5	449.6	450.8	446.7
63°	438.8	434.5	425.6	417.5	420.7	418.9	419.4	423.9	427.1	429.4	425.0
63.5°	417.0	413.2	404.6	397.0	400.1	398.4	398.8	403.3	405.0	408.5	404.8
64°	395.3	392.9	384.4	376.5	380.1	378.0	378.7	382.7	383.6	387.7	384.2
64.5°	373.4	371.7	364.5	356.2	360.3	358.8	358.9	363.3	362.2	367.1	364.2
65°	352.9	352.6	344.9	337.1	340.7	339.3	339.4	343.7	341.3	347.2	345.1
65.5°	334.1	330.8	326.4	319.1	321.9	320.4	320.5	324.2	320.3	327.4	326.0
66°	313.8	312.1	307.9	301.1	303.5	302.2	302.2	304.7	300.6	308.0	307.0
66.5°	293.5	293.5	289.5	283.1	285.9	284.3	284.3	286.3	281.6	288.6	289.3
67°	273.2	274.8	271.0	265.1	268.3	266.5	266.8	267.6	263.6	270.3	271.5





TEST NUMBER: P640229

CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	253.0	256.2	252.6	247.1	251.1	250.0	249.7	250.1	246.1	252.7	254.5
68°	235.6	238.9	236.5	230.9	234.7	233.6	233.5	232.8	229.2	235.7	237.7
68.5°	218.7	222.1	220.5	215.2	219.2	218.1	217.7	216.3	212.8	219.2	221.8
69°	202.4	205.6	205.0	199.9	203.7	202.4	202.6	200.6	197.0	203.3	206.4
69.5°	186.5	190.3	189.7	185.3	188.9	188.0	187.9	185.6	181.8	188.2	191.6
70°	171.6	175.7	176.1	171.6	174.6	173.9	173.5	171.4	167.1	173.9	177.1
70.5°	157.5	161.7	162.2	158.3	161.3	160.5	160.6	158.1	153.9	160.3	163.8
71°	144.0	148.3	149.3	145.3	148.4	147.9	147.8	145.2	140.7	147.2	150.7
71.5°	131.2	135.6	136.5	133.6	136.4	136.0	135.8	133.3	128.3	135.2	138.5
72°	118.9	123.9	125.5	122.5	125.0	124.4	124.3	122.0	116.6	123.6	127.0
72.5°	107.1	113.0	114.7	112.1	114.5	114.0	114.1	111.6	105.7	112.9	116.2
73°	96.8	102.9	104.6	102.5	104.5	104.3	104.0	101.8	95.2	103.0	106.2
73.5°	87.5	94.1	95.2	93.7	95.9	95.4	95.2	94.6	88.4	94.1	97.1
74°	80.0	85.9	87.3	85.8	89.1	88.6	88.3	87.5	81.7	87.3	90.6
74.5°	74.2	78.7	80.0	78.7	82.3	81.8	81.4	80.3	74.9	80.6	84.2
75°	68.8	72.3	73.6	72.7	75.6	75.1	74.6	73.2	68.1	73.9	77.7
75.5°	64.9	66.9	68.0	67.5	68.8	68.4	67.8	66.1	64.4	67.2	71.3
76°	61.7	62.6	63.9	63.6	64.6	64.3	63.7	62.0	61.1	62.8	64.9
76.5°	58.5	59.3	60.8	60.5	61.5	61.2	60.6	58.8	58.0	59.6	61.7
77°	55.5	56.2	57.8	57.6	58.5	58.2	57.5	55.7	54.9	56.4	58.6
77.5°	52.5	53.2	54.8	54.7	55.6	55.4	54.7	52.7	52.1	53.5	55.7
78°	49.6	50.2	51.8	51.9	52.7	52.5	51.8	49.8	49.0	50.4	52.7
78.5°	46.7	47.3	49.0	49.0	49.9	49.7	49.0	46.9	46.2	47.5	49.9
79°	43.9	44.4	46.2	46.3	47.2	47.0	46.3	44.1	43.4	44.6	47.1
79.5°	41.1	41.5	43.4	43.6	44.4	44.2	43.5	41.3	40.7	41.9	44.3
80°	38.3	38.7	40.7	41.0	41.7	41.6	40.8	38.6	37.9	39.1	41.6
80.5°	35.7	36.2	38.1	38.5	39.2	39.0	38.2	35.9	35.3	36.4	39.0
81°	33.5	33.5	35.4	35.9	36.7	36.5	35.6	33.3	32.8	33.8	36.3
81.5°	30.9	30.9	33.0	33.2	34.1	33.9	33.1	30.8	30.2	31.2	33.8
82°	28.3	28.4	30.5	30.8	31.6	31.5	30.6	28.3	27.6	28.6	31.3
82.5°	25.6	25.9	28.1	28.5	29.2	29.1	28.1	25.7	25.2	26.1	28.8
83°	23.0	23.4	25.6	26.1	26.9	26.7	25.7	23.3	22.8	23.6	26.4
83.5°	20.6	20.9	23.2	23.8	24.4	24.3	23.3	20.9	20.5	21.3	24.0
84°	18.2	18.6	20.9	21.4	22.1	22.0	21.0	18.6	18.1	18.9	21.7
84.5°	16.0	16.3	18.7	19.2	19.9	19.7	18.8	16.4	15.8	16.6	19.4
85°	13.7	14.0	16.6	17.0	17.6	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	11.7	12.7	15.1
86°	9.8	10.3	12.4	12.7	13.3	13.2	12.4	10.6	10.0	11.0	13.0
86.5°	8.1	8.5	10.4	10.5	11.2	11.1	10.5	8.9	8.4	9.3	11.1
87°	6.5	6.9	8.5	8.5	9.2	9.1	8.6	7.2	6.8	7.5	9.1
87.5°	5.1	5.4	6.5	6.5	7.1	7.1	6.7	5.5	5.2	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: P640229  
 CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**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	0.4	0.3	0.2	0.3	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: P640229  
 CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**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	0.5	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	0.5	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	0.6	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	0.6	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	0.7	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°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	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	0.7	0.7	0.7	0.7	0.7
127°	0.8	0.8	0.8	0.8	0.7	0.7	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°	0.9	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	0.8	0.8	0.8	0.8	0.7
131°	0.9	0.9	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	0.9	0.8	0.9	0.9	1.0	0.9	0.8



TEST NUMBER: P640229  
 CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**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	1.0	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	1.0	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	1.0
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	1.1	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	1.2	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	1.2	1.1
146°	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.2	1.2	1.2
146.5°	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
147°	1.2	1.2	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	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
148.5°	1.2	1.2	1.2	1.2	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	1.3	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	1.4	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°	1.3	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: P640229  
 CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**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	1.5	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	1.5
158.5°	1.3	1.3	1.3	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	1.5	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	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
166°	1.3	1.3	1.3	1.3	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	1.6	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	1.6	1.6	1.5	1.5
172.5°	1.4	1.4	1.3	1.3	1.5	1.5	1.5	1.6	1.6	1.5	1.5
173°	1.4	1.4	1.4	1.3	1.5	1.5	1.5	1.6	1.6	1.5	1.5
173.5°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.5
174°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	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	1.6
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°	1.5	1.5	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	1.6
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: P640229  
CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**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: P640229

CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2519.7	2519.7	2519.7	2519.7	2519.7	2519.7
0.5°	2519.7	2519.8	2519.9	2520.0	2520.1	2519.8
1°	2519.7	2519.7	2519.9	2519.8	2520.1	2519.5
1.5°	2518.8	2519.1	2519.2	2519.5	2519.9	2519.3
2°	2518.0	2518.3	2518.7	2518.8	2518.7	2518.5
2.5°	2516.5	2517.3	2517.5	2518.1	2518.1	2517.7
3°	2515.3	2515.5	2516.4	2516.7	2516.7	2516.5
3.5°	2513.2	2513.9	2514.7	2515.1	2515.4	2514.9
4°	2510.8	2511.5	2512.8	2512.9	2513.7	2512.7
4.5°	2508.5	2509.2	2510.5	2510.9	2511.2	2510.4
5°	2505.7	2506.5	2507.8	2508.4	2508.9	2507.7
5.5°	2502.6	2503.5	2504.8	2505.7	2506.1	2504.9
6°	2499.1	2500.1	2501.8	2502.7	2502.7	2501.5
6.5°	2495.5	2496.6	2498.4	2499.5	2499.3	2498.1
7°	2491.4	2492.3	2494.4	2495.6	2495.6	2494.3
7.5°	2486.7	2488.0	2490.1	2491.5	2491.3	2490.2
8°	2481.9	2483.1	2485.7	2487.1	2487.1	2485.9
8.5°	2476.9	2478.1	2480.4	2482.0	2482.4	2480.9
9°	2471.6	2472.8	2475.7	2477.1	2477.6	2475.9
9.5°	2466.2	2467.1	2470.0	2471.9	2472.1	2470.6
10°	2460.4	2461.3	2464.2	2466.1	2466.6	2465.1
10.5°	2454.1	2455.1	2458.2	2460.7	2460.8	2458.9
11°	2447.3	2448.7	2451.9	2454.0	2454.2	2452.7
11.5°	2440.5	2441.9	2444.9	2447.1	2447.4	2446.1
12°	2433.2	2434.6	2437.9	2440.4	2440.6	2439.2
12.5°	2425.8	2427.1	2430.5	2433.1	2433.3	2431.9
13°	2417.7	2419.3	2423.2	2425.3	2426.0	2424.6
13.5°	2409.7	2411.7	2415.1	2417.4	2418.2	2416.5
14°	2401.5	2402.9	2406.6	2408.9	2410.1	2408.3
14.5°	2392.5	2394.2	2398.0	2400.8	2401.9	2399.9
15°	2383.5	2385.3	2388.8	2391.9	2393.0	2391.0
15.5°	2374.2	2375.9	2379.3	2382.9	2383.8	2381.9
16°	2364.6	2366.2	2370.0	2373.2	2374.4	2372.5
16.5°	2354.6	2356.2	2360.2	2363.7	2365.2	2363.0
17°	2344.3	2345.9	2349.7	2353.8	2355.1	2353.1
17.5°	2333.9	2334.9	2339.6	2343.5	2344.6	2342.8
18°	2322.6	2324.3	2328.6	2332.0	2333.8	2332.4
18.5°	2311.8	2312.9	2317.6	2321.0	2323.1	2321.2
19°	2300.0	2301.6	2306.4	2310.1	2311.9	2310.0
19.5°	2288.3	2289.7	2294.1	2298.2	2300.4	2298.4
20°	2276.3	2277.7	2282.3	2286.6	2288.5	2287.3
20.5°	2263.7	2265.2	2269.9	2274.3	2276.4	2274.5
21°	2250.6	2252.2	2257.2	2261.8	2264.2	2262.1
21.5°	2237.9	2239.5	2244.1	2249.1	2251.2	2249.3
22°	2224.7	2225.9	2230.8	2235.9	2238.3	2236.7

TEST NUMBER: P640229

CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2211.3	2212.4	2217.4	2222.6	2225.1	2223.4
23°	2197.4	2198.3	2203.9	2208.9	2211.7	2209.9
23.5°	2183.7	2184.1	2189.5	2194.7	2198.0	2196.2
24°	2169.4	2169.8	2175.5	2180.6	2183.9	2182.1
24.5°	2154.4	2155.1	2160.4	2165.8	2169.0	2167.7
25°	2139.3	2139.7	2145.6	2151.5	2154.6	2153.2
25.5°	2124.4	2124.5	2130.4	2136.4	2139.7	2138.6
26°	2109.0	2109.4	2115.1	2121.2	2124.7	2123.4
26.5°	2093.3	2093.6	2099.0	2105.1	2109.2	2107.7
27°	2076.9	2077.3	2083.2	2089.9	2093.3	2092.3
27.5°	2060.8	2061.1	2066.9	2073.7	2077.2	2076.4
28°	2044.6	2044.3	2050.3	2057.1	2061.3	2060.4
28.5°	2027.8	2027.5	2033.3	2040.6	2045.0	2043.6
29°	2011.0	2010.5	2016.5	2023.8	2028.5	2027.1
29.5°	1993.7	1993.3	1998.9	2006.6	2011.4	2010.3
30°	1976.6	1976.2	1981.6	1989.3	1994.4	1993.4
30.5°	1959.0	1958.2	1963.8	1971.9	1976.9	1975.7
31°	1941.3	1940.0	1945.6	1953.7	1959.2	1958.4
31.5°	1923.0	1921.8	1927.4	1935.6	1941.4	1940.6
32°	1904.6	1903.8	1909.1	1917.6	1923.2	1923.0
32.5°	1886.4	1884.7	1890.4	1899.5	1905.1	1904.6
33°	1867.8	1865.9	1871.7	1880.6	1886.7	1886.0
33.5°	1848.8	1846.9	1852.7	1861.4	1868.1	1867.6
34°	1829.5	1827.7	1833.7	1842.5	1849.1	1849.1
34.5°	1810.5	1807.8	1813.6	1823.0	1829.4	1829.7
35°	1790.8	1788.4	1793.7	1803.3	1810.1	1810.3
35.5°	1771.1	1768.3	1774.1	1783.9	1790.8	1790.8
36°	1751.5	1748.1	1754.0	1763.5	1771.1	1771.3
36.5°	1731.1	1727.8	1733.8	1743.3	1750.6	1751.4
37°	1710.1	1707.4	1712.8	1722.9	1730.4	1731.5
37.5°	1690.0	1686.1	1692.0	1702.6	1710.2	1711.3
38°	1669.1	1665.1	1671.1	1681.7	1689.7	1690.3
38.5°	1648.5	1644.0	1650.2	1660.3	1668.7	1669.9
39°	1627.6	1623.0	1628.7	1639.7	1648.1	1649.3
39.5°	1606.4	1601.5	1607.2	1618.0	1627.0	1628.3
40°	1585.0	1579.3	1585.3	1596.6	1605.8	1607.0
40.5°	1563.8	1557.7	1563.7	1574.8	1584.0	1585.4
41°	1541.6	1536.0	1541.4	1552.8	1562.6	1563.9
41.5°	1519.6	1513.3	1519.1	1530.9	1541.1	1542.1
42°	1497.0	1491.1	1496.5	1508.0	1517.8	1518.7
42.5°	1473.3	1466.6	1472.6	1484.3	1493.9	1495.2
43°	1448.9	1441.5	1447.0	1459.2	1468.3	1469.5
43.5°	1423.6	1415.3	1421.5	1433.3	1443.0	1443.9
44°	1397.3	1389.5	1395.0	1407.2	1416.5	1417.4
44.5°	1371.2	1363.0	1368.4	1380.7	1390.4	1391.8



TEST NUMBER: P640229

CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1344.6	1335.5	1341.2	1353.5	1362.8	1364.4
45.5°	1317.9	1308.2	1314.2	1326.3	1336.4	1337.6
46°	1290.9	1281.2	1286.2	1298.9	1308.7	1310.3
46.5°	1263.2	1253.4	1258.9	1271.2	1281.7	1282.7
47°	1235.5	1225.9	1230.2	1242.6	1253.6	1254.8
47.5°	1207.4	1196.7	1202.2	1215.4	1225.9	1227.2
48°	1180.0	1169.5	1173.8	1187.1	1197.8	1199.6
48.5°	1152.6	1141.3	1146.1	1158.9	1170.7	1171.9
49°	1124.7	1113.1	1118.1	1131.1	1142.9	1144.6
49.5°	1096.6	1086.2	1090.0	1103.5	1114.9	1116.9
50°	1068.6	1057.3	1060.9	1074.4	1086.3	1088.6
50.5°	1040.9	1029.5	1033.5	1046.6	1059.1	1061.1
51°	1013.7	1001.2	1005.9	1018.9	1031.9	1033.6
51.5°	985.7	974.3	978.2	991.4	1004.4	1006.7
52°	958.7	946.6	950.9	963.7	976.8	979.7
52.5°	931.6	919.7	923.8	937.0	949.8	952.2
53°	904.3	892.4	896.7	909.1	922.8	925.6
53.5°	877.2	865.5	869.9	882.2	895.8	898.7
54°	850.7	838.2	843.1	855.1	868.4	871.9
54.5°	824.3	813.0	816.9	829.3	842.4	846.1
55°	798.5	787.1	790.9	802.7	815.8	819.9
55.5°	772.7	760.6	765.1	776.6	790.3	793.4
56°	747.9	735.1	739.6	751.1	763.6	768.1
56.5°	723.1	710.3	714.5	725.7	738.6	742.7
57°	698.4	685.6	689.3	700.8	712.4	717.3
57.5°	673.6	661.2	664.6	675.4	688.2	692.7
58°	648.9	636.8	640.7	651.0	663.7	667.9
58.5°	624.5	613.0	616.9	626.8	639.5	643.7
59°	600.7	589.5	592.7	602.8	614.8	619.6
59.5°	577.3	566.6	569.8	579.5	591.0	595.9
60°	554.4	543.5	547.1	556.1	567.6	572.5
60.5°	531.2	521.2	524.5	533.2	544.6	549.2
61°	508.7	499.2	502.6	510.7	521.3	526.4
61.5°	486.7	477.7	480.6	489.0	499.2	503.9
62°	465.7	457.0	459.4	467.4	477.2	482.5
62.5°	444.1	435.4	438.4	445.8	455.1	460.2
63°	423.3	415.0	417.9	424.8	434.3	438.8
63.5°	402.6	395.0	397.8	404.4	413.3	417.0
64°	382.9	375.5	377.6	384.4	392.4	395.3
64.5°	363.0	356.4	358.6	364.5	372.3	373.4
65°	343.9	336.9	340.3	345.7	353.0	352.9
65.5°	325.3	318.9	322.4	327.6	331.5	334.1
66°	306.8	301.0	304.6	309.5	313.3	313.8
66.5°	288.7	283.1	286.7	291.4	295.1	293.5
67°	271.5	265.2	268.8	273.3	276.8	273.2



TEST NUMBER: P640229

CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	254.8	248.7	251.0	255.2	258.6	253.0
68°	238.3	232.6	234.6	238.8	241.8	235.6
68.5°	222.5	216.8	219.1	222.7	224.9	218.7
69°	207.1	202.0	204.0	207.7	208.4	202.4
69.5°	192.4	187.5	189.4	192.6	192.8	186.5
70°	178.1	173.6	175.7	179.0	178.3	171.6
70.5°	164.7	160.2	162.1	165.2	164.3	157.5
71°	151.9	147.5	149.7	152.2	150.9	144.0
71.5°	139.4	135.4	137.5	139.9	138.8	131.2
72°	127.9	124.3	126.1	128.6	126.9	118.9
72.5°	117.3	113.7	115.5	117.8	116.0	107.1
73°	107.2	103.9	105.7	107.6	105.7	96.8
73.5°	98.2	94.9	96.5	98.1	96.4	87.5
74°	91.7	87.2	88.3	89.9	87.9	80.0
74.5°	85.2	80.1	80.9	82.2	80.3	74.2
75°	78.8	74.1	74.7	75.5	73.6	68.8
75.5°	72.3	68.9	69.4	69.7	67.9	64.9
76°	65.9	64.9	65.1	65.1	63.2	61.7
76.5°	62.6	61.8	62.0	62.0	59.8	58.5
77°	59.6	58.8	59.1	59.0	56.8	55.5
77.5°	56.7	55.9	56.1	56.0	53.8	52.5
78°	53.8	53.0	53.3	53.1	50.8	49.6
78.5°	50.9	50.2	50.4	50.2	47.9	46.7
79°	48.1	47.4	47.7	47.4	45.0	43.9
79.5°	45.5	44.7	44.9	44.6	42.2	41.1
80°	42.8	41.9	42.2	41.8	39.4	38.3
80.5°	40.1	39.4	39.6	39.2	36.8	35.7
81°	37.5	36.8	37.0	36.5	34.1	33.5
81.5°	35.1	34.2	34.4	33.9	31.6	30.9
82°	32.4	31.8	32.0	31.4	29.0	28.3
82.5°	30.0	29.4	29.5	29.0	26.5	25.6
83°	27.6	27.0	27.1	26.5	24.0	23.0
83.5°	25.2	24.6	24.7	24.1	21.4	20.6
84°	22.8	22.2	22.3	21.6	19.0	18.2
84.5°	20.5	19.9	20.0	19.4	16.7	16.0
85°	18.3	17.5	17.7	17.1	14.6	13.7
85.5°	16.0	15.3	15.5	15.0	12.6	11.6
86°	13.8	13.2	13.2	12.9	10.6	9.8
86.5°	11.8	11.0	11.1	10.9	8.8	8.1
87°	9.7	8.9	9.0	8.8	7.2	6.5
87.5°	7.6	6.8	7.0	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	3.4	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: P640229

CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**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: P640229  
 CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**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	0.8
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°	0.7	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	0.9
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: P640229  
 CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**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	1.1	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	1.2
147°	1.2	1.1	1.1	1.1	1.1	1.2
147.5°	1.2	1.1	1.1	1.1	1.2	1.2
148°	1.2	1.1	1.1	1.1	1.2	1.2
148.5°	1.2	1.2	1.1	1.2	1.2	1.2
149°	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
150°	1.3	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°	1.4	1.2	1.2	1.2	1.2	1.2
154.5°	1.4	1.2	1.2	1.2	1.2	1.3
155°	1.4	1.2	1.2	1.2	1.2	1.3
155.5°	1.4	1.2	1.2	1.2	1.3	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: P640229  
 CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**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	1.3	1.3	1.3	1.3
165°	1.5	1.2	1.3	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	1.4	1.4	1.4	1.4
174°	1.5	1.4	1.4	1.4	1.4	1.4
174.5°	1.6	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	1.5
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: P640229  
CATALOG NUMBER: LCR850RD9FSE010-50W-3500K

**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)