

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 COMMERCIAL

Report Number: P776057

Luminaire Tested: HCDJBL51525CSD-HCD62TRH-2500lm-3500K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B056)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD62TRH-2500lm-3500K
Description: 6 INCH ROUND NARROW HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3500K CCT
Ballast/Driver: -

Summary

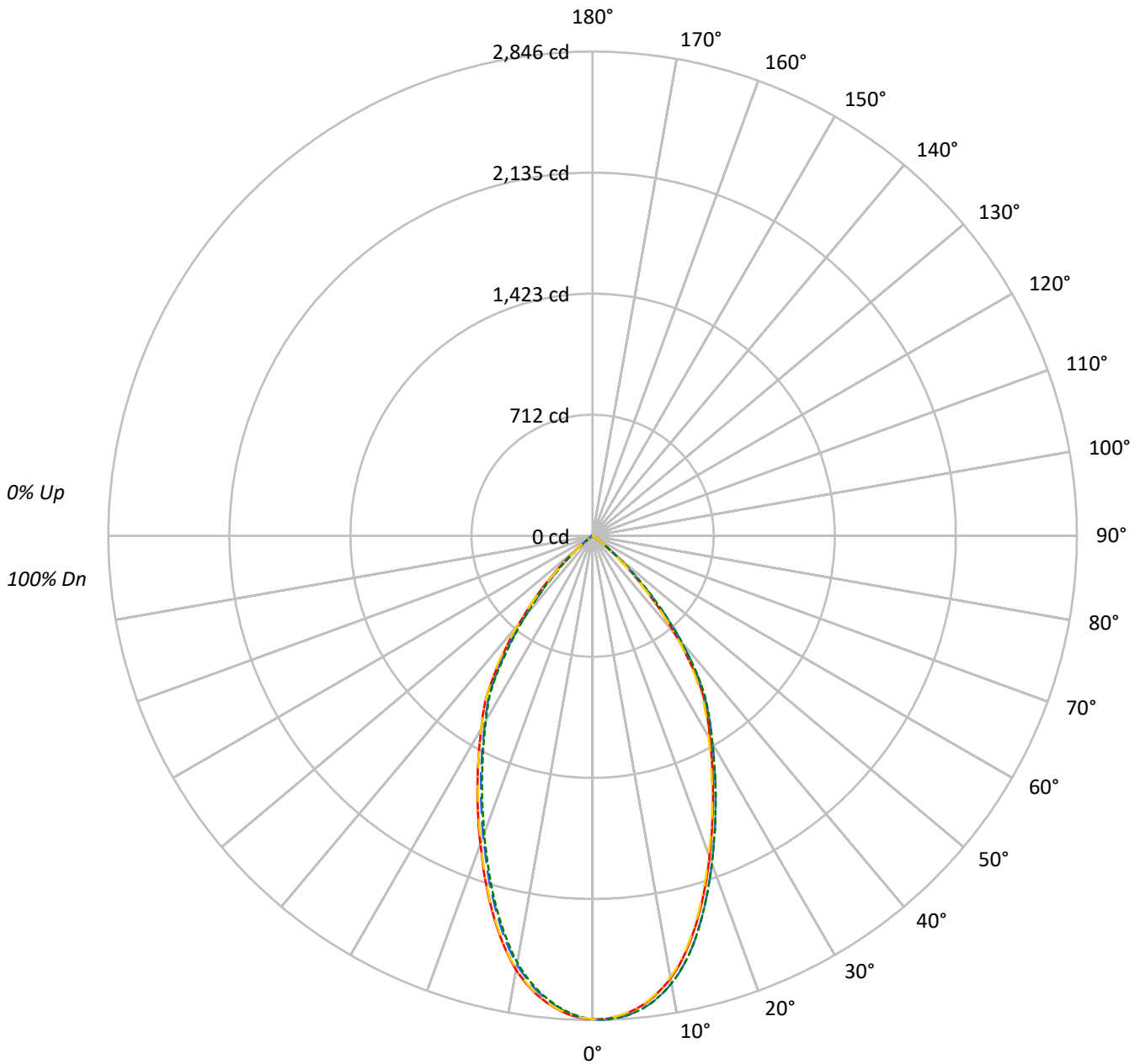
Lumens per Lamp: N/A
Luminaire Lumens: 2643.9 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.82 / 0.91
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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: 24 FT



TEST NUMBER: P776057
CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P776057

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|---|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 93 | | | | | 93 | | | |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 93 | 97 | 94 | 91 | 94 | 92 | 89 | 92 | 89 | 88 | 86 | | | | | 86 | | | |
| 3 | 102 | 95 | 90 | 85 | 100 | 93 | 89 | 85 | 91 | 87 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 79 | | | | | 79 | | | |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 82 | 77 | 85 | 80 | 76 | 83 | 79 | 76 | 81 | 78 | 75 | 73 | | | | | 73 | | | |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 68 | | | | | 68 | | | |
| 6 | 86 | 77 | 70 | 66 | 84 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 67 | 64 | 63 | | | | | 63 | | | |
| 7 | 81 | 72 | 65 | 61 | 80 | 71 | 65 | 61 | 70 | 64 | 60 | 68 | 64 | 60 | 67 | 63 | 60 | 58 | | | | | 58 | | | |
| 8 | 77 | 67 | 61 | 57 | 76 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 54 | | | | | 54 | | | |
| 9 | 73 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 51 | | | | | 51 | | | |
| 10 | 70 | 59 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 57 | 52 | 49 | 47 | | | | | 47 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|--------|--------|
| 0° | 155761 | 155761 | 155761 | 155761 |
| 5° | 153951 | 154820 | 152603 | 151469 |
| 10° | 147008 | 148667 | 144169 | 141770 |
| 15° | 133724 | 136130 | 129479 | 126107 |
| 20° | 117173 | 119530 | 112506 | 108673 |
| 25° | 101322 | 103464 | 96774 | 92890 |
| 30° | 87412 | 89077 | 82930 | 79455 |
| 35° | 75121 | 76888 | 68456 | 64835 |
| 40° | 54123 | 57386 | 48040 | 43839 |
| 45° | 32050 | 35802 | 27344 | 23747 |
| 50° | 13287 | 15530 | 9390 | 7829 |
| 55° | 2256 | 2972 | 2256 | 1491 |
| 60° | 932 | 877 | 910 | 746 |
| 65° | 558 | 519 | 558 | 454 |
| 70° | 369 | 369 | 369 | 321 |
| 75° | 275 | 212 | 275 | 212 |
| 80° | 158 | 158 | 158 | 158 |
| 85° | 0 | 189 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 38097 cd/sqm



TEST NUMBER: P776057

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 260.3 | 9.8 |
| 10°-20° | 643.4 | 24.3 |
| 20°-30° | 748.6 | 28.3 |
| 30°-40° | 651.0 | 24.6 |
| 40°-50° | 299.5 | 11.3 |
| 50°-60° | 35.3 | 1.3 |
| 60°-70° | 4.3 | 0.2 |
| 70°-80° | 1.3 | 0.0 |
| 80°-90° | 0.2 | 0.0 |
| 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° | 1652.3 | 62.5 |
| 0°-40° | 2303.4 | 87.1 |
| 0°-60° | 2638.2 | 99.8 |
| 0°-90° | 2643.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2643.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2841 | 2841 | 2841 | 2841 | 2841 | |
| 5° | 2798 | 2813 | 2773 | 2752 | 2798 | 262 |
| 15° | 2356 | 2399 | 2281 | 2222 | 2356 | 655 |
| 25° | 1675 | 1710 | 1600 | 1536 | 1675 | 769 |
| 35° | 1122 | 1149 | 1023 | 969 | 1122 | 682 |
| 45° | 413 | 462 | 353 | 306 | 413 | 325 |
| 55° | 24 | 31 | 24 | 16 | 24 | 39 |
| 65° | 4 | 4 | 4 | 4 | 4 | 5 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: HCDJBL5125CSD-HCD62TRH-2500lm-3500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2841.3 | 2841.3 | 2841.3 | 2841.3 | 2841.3 | 2841.3 | 2841.3 | 2841.3 | 2841.3 | 2841.3 | 2841.3 |
| 0.5° | 2842.5 | 2844.6 | 2844.8 | 2842.5 | 2843.0 | 2841.5 | 2840.5 | 2841.0 | 2840.5 | 2840.8 | 2840.3 |
| 1° | 2842.0 | 2844.8 | 2845.8 | 2844.6 | 2843.8 | 2841.5 | 2840.3 | 2839.3 | 2837.8 | 2837.5 | 2836.5 |
| 1.5° | 2839.8 | 2843.8 | 2845.8 | 2845.3 | 2843.8 | 2840.8 | 2838.5 | 2836.3 | 2833.8 | 2832.5 | 2831.0 |
| 2° | 2837.3 | 2842.3 | 2844.6 | 2845.1 | 2842.5 | 2839.3 | 2836.0 | 2832.0 | 2828.7 | 2826.5 | 2824.0 |
| 2.5° | 2833.3 | 2839.3 | 2842.0 | 2843.8 | 2840.5 | 2836.0 | 2831.8 | 2826.5 | 2822.5 | 2819.2 | 2816.0 |
| 3° | 2828.2 | 2835.3 | 2838.3 | 2841.8 | 2837.0 | 2832.3 | 2826.5 | 2820.5 | 2814.7 | 2810.7 | 2806.7 |
| 3.5° | 2822.5 | 2830.0 | 2834.0 | 2838.5 | 2833.0 | 2827.5 | 2820.2 | 2813.2 | 2806.2 | 2800.7 | 2796.6 |
| 4° | 2815.2 | 2823.7 | 2828.2 | 2834.0 | 2828.0 | 2821.2 | 2813.2 | 2804.2 | 2796.1 | 2789.9 | 2785.4 |
| 4.5° | 2806.9 | 2816.5 | 2822.0 | 2828.2 | 2821.5 | 2813.7 | 2804.7 | 2794.6 | 2785.1 | 2777.8 | 2772.8 |
| 5° | 2797.6 | 2808.2 | 2813.7 | 2822.0 | 2813.4 | 2805.4 | 2794.9 | 2783.8 | 2773.1 | 2764.5 | 2758.5 |
| 5.5° | 2787.6 | 2798.9 | 2805.2 | 2813.9 | 2804.9 | 2795.4 | 2784.1 | 2772.3 | 2760.3 | 2750.5 | 2744.0 |
| 6° | 2775.8 | 2788.1 | 2795.6 | 2805.4 | 2794.9 | 2784.6 | 2772.6 | 2758.3 | 2745.5 | 2734.9 | 2727.9 |
| 6.5° | 2763.5 | 2777.1 | 2784.6 | 2795.4 | 2783.6 | 2772.8 | 2759.5 | 2744.0 | 2730.4 | 2719.4 | 2711.1 |
| 7° | 2749.2 | 2763.8 | 2772.1 | 2784.6 | 2771.8 | 2760.0 | 2745.2 | 2728.9 | 2714.1 | 2702.3 | 2693.5 |
| 7.5° | 2733.9 | 2749.7 | 2758.5 | 2772.1 | 2758.0 | 2744.7 | 2729.7 | 2713.1 | 2696.1 | 2683.3 | 2674.2 |
| 8° | 2717.6 | 2733.9 | 2743.0 | 2758.5 | 2743.2 | 2728.7 | 2713.1 | 2694.8 | 2677.5 | 2663.7 | 2653.7 |
| 8.5° | 2700.3 | 2717.9 | 2727.2 | 2743.7 | 2726.7 | 2712.6 | 2695.3 | 2675.5 | 2657.4 | 2642.9 | 2632.3 |
| 9° | 2681.5 | 2700.1 | 2709.3 | 2726.9 | 2709.3 | 2694.5 | 2676.5 | 2655.4 | 2636.4 | 2620.5 | 2609.5 |
| 9.5° | 2661.7 | 2680.8 | 2691.3 | 2709.3 | 2690.8 | 2675.0 | 2655.9 | 2635.1 | 2613.8 | 2597.5 | 2585.4 |
| 10° | 2640.9 | 2660.2 | 2671.0 | 2690.5 | 2670.7 | 2654.4 | 2634.8 | 2611.3 | 2589.9 | 2572.9 | 2559.6 |
| 10.5° | 2618.0 | 2639.6 | 2650.1 | 2670.7 | 2650.4 | 2633.3 | 2611.5 | 2587.4 | 2564.1 | 2545.0 | 2531.5 |
| 11° | 2594.5 | 2616.5 | 2627.6 | 2649.9 | 2627.6 | 2609.8 | 2587.7 | 2561.3 | 2536.8 | 2515.2 | 2501.9 |
| 11.5° | 2568.9 | 2591.5 | 2603.2 | 2627.3 | 2603.7 | 2585.2 | 2561.9 | 2534.3 | 2507.7 | 2486.1 | 2472.0 |
| 12° | 2541.3 | 2565.6 | 2577.2 | 2602.7 | 2578.2 | 2558.6 | 2533.8 | 2504.7 | 2478.3 | 2456.2 | 2440.9 |
| 12.5° | 2512.9 | 2537.5 | 2550.3 | 2576.7 | 2551.6 | 2530.7 | 2504.9 | 2475.6 | 2447.0 | 2424.1 | 2408.6 |
| 13° | 2483.6 | 2508.9 | 2522.5 | 2549.6 | 2523.2 | 2502.2 | 2475.8 | 2445.0 | 2415.6 | 2391.5 | 2375.5 |
| 13.5° | 2453.2 | 2479.3 | 2493.4 | 2521.5 | 2493.9 | 2471.8 | 2445.0 | 2413.4 | 2383.0 | 2358.2 | 2341.1 |
| 14° | 2421.6 | 2448.7 | 2462.5 | 2492.9 | 2462.8 | 2441.2 | 2413.1 | 2380.5 | 2349.6 | 2325.3 | 2307.7 |
| 14.5° | 2389.5 | 2416.9 | 2431.4 | 2460.8 | 2430.9 | 2408.3 | 2380.0 | 2347.1 | 2316.3 | 2289.7 | 2272.9 |
| 15° | 2356.2 | 2384.5 | 2398.1 | 2430.4 | 2398.6 | 2375.2 | 2346.9 | 2313.5 | 2281.4 | 2255.6 | 2237.8 |
| 15.5° | 2322.3 | 2350.9 | 2364.4 | 2397.5 | 2365.7 | 2341.9 | 2313.5 | 2279.4 | 2246.8 | 2220.5 | 2202.1 |
| 16° | 2288.4 | 2317.3 | 2331.1 | 2363.9 | 2331.3 | 2307.7 | 2279.7 | 2244.3 | 2211.9 | 2185.6 | 2167.0 |
| 16.5° | 2254.6 | 2283.4 | 2297.7 | 2330.3 | 2297.0 | 2273.6 | 2245.3 | 2210.2 | 2177.6 | 2149.7 | 2131.7 |
| 17° | 2220.5 | 2248.8 | 2262.3 | 2296.2 | 2262.6 | 2238.8 | 2209.4 | 2174.8 | 2141.9 | 2113.8 | 2095.3 |
| 17.5° | 2184.8 | 2213.9 | 2227.2 | 2260.8 | 2227.0 | 2202.6 | 2174.3 | 2140.2 | 2106.1 | 2078.5 | 2058.4 |
| 18° | 2149.7 | 2178.3 | 2192.1 | 2225.7 | 2191.6 | 2167.3 | 2138.9 | 2104.6 | 2069.9 | 2041.9 | 2021.3 |
| 18.5° | 2114.6 | 2143.4 | 2156.5 | 2189.9 | 2155.7 | 2132.2 | 2103.6 | 2067.7 | 2034.3 | 2005.5 | 1984.9 |
| 19° | 2079.0 | 2108.3 | 2120.1 | 2153.7 | 2120.4 | 2096.8 | 2067.2 | 2032.1 | 1997.7 | 1968.9 | 1948.8 |
| 19.5° | 2044.1 | 2072.7 | 2085.0 | 2117.9 | 2084.5 | 2061.2 | 2031.1 | 1997.5 | 1961.8 | 1935.0 | 1914.9 |
| 20° | 2008.5 | 2036.8 | 2048.6 | 2082.2 | 2048.9 | 2025.0 | 1996.2 | 1961.1 | 1928.5 | 1901.1 | 1880.8 |
| 20.5° | 1973.1 | 2002.2 | 2013.8 | 2045.9 | 2012.8 | 1989.2 | 1960.6 | 1927.7 | 1895.1 | 1867.3 | 1846.7 |
| 21° | 1938.5 | 1967.4 | 1979.4 | 2011.5 | 1977.4 | 1954.3 | 1927.2 | 1894.4 | 1861.8 | 1833.4 | 1812.6 |



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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° | 1836.9 | 1864.3 | 1875.3 | 1905.4 | 1876.0 | 1853.7 | 1827.4 | 1794.3 | 1760.7 | 1732.3 | 1711.2 |
| 23° | 1803.8 | 1830.1 | 1841.7 | 1871.3 | 1842.4 | 1820.1 | 1794.0 | 1760.4 | 1728.1 | 1698.7 | 1678.9 |
| 23.5° | 1771.4 | 1797.0 | 1808.3 | 1837.4 | 1809.1 | 1786.5 | 1759.9 | 1727.8 | 1695.2 | 1666.6 | 1646.5 |
| 24° | 1738.3 | 1764.7 | 1775.0 | 1803.3 | 1775.5 | 1753.4 | 1726.8 | 1695.7 | 1663.1 | 1634.5 | 1613.9 |
| 24.5° | 1707.0 | 1732.3 | 1741.8 | 1769.9 | 1742.9 | 1719.3 | 1694.4 | 1663.6 | 1631.0 | 1603.1 | 1582.6 |
| 25° | 1675.1 | 1700.2 | 1709.7 | 1737.8 | 1710.5 | 1687.4 | 1661.8 | 1631.2 | 1599.9 | 1571.8 | 1551.5 |
| 25.5° | 1643.8 | 1668.4 | 1677.9 | 1705.7 | 1677.9 | 1656.3 | 1630.2 | 1600.4 | 1569.3 | 1540.7 | 1521.4 |
| 26° | 1612.9 | 1638.3 | 1646.5 | 1673.4 | 1646.3 | 1625.5 | 1599.4 | 1569.8 | 1538.7 | 1510.6 | 1491.3 |
| 26.5° | 1582.8 | 1606.1 | 1615.7 | 1640.8 | 1615.2 | 1593.6 | 1568.5 | 1538.9 | 1508.1 | 1480.5 | 1460.2 |
| 27° | 1552.2 | 1575.5 | 1584.3 | 1609.9 | 1584.1 | 1562.0 | 1537.7 | 1508.8 | 1478.2 | 1450.9 | 1430.8 |
| 27.5° | 1522.1 | 1545.4 | 1553.7 | 1579.3 | 1553.2 | 1533.1 | 1507.8 | 1478.7 | 1448.6 | 1421.8 | 1401.7 |
| 28° | 1492.8 | 1516.6 | 1523.6 | 1549.0 | 1522.6 | 1502.8 | 1477.7 | 1449.9 | 1419.8 | 1392.4 | 1373.4 |
| 28.5° | 1463.4 | 1487.2 | 1494.0 | 1518.8 | 1493.3 | 1472.7 | 1448.6 | 1420.5 | 1390.7 | 1364.1 | 1345.0 |
| 29° | 1435.6 | 1457.6 | 1464.9 | 1488.5 | 1463.9 | 1443.8 | 1420.8 | 1392.4 | 1363.6 | 1336.7 | 1317.4 |
| 29.5° | 1408.2 | 1429.8 | 1435.8 | 1459.7 | 1435.6 | 1415.8 | 1392.4 | 1365.1 | 1336.2 | 1310.1 | 1291.1 |
| 30° | 1380.9 | 1402.7 | 1408.7 | 1431.8 | 1407.2 | 1388.4 | 1365.1 | 1338.2 | 1310.1 | 1283.6 | 1265.2 |
| 30.5° | 1354.3 | 1375.6 | 1381.9 | 1404.2 | 1380.1 | 1361.1 | 1338.5 | 1311.4 | 1283.8 | 1257.7 | 1239.9 |
| 31° | 1328.5 | 1349.3 | 1355.3 | 1376.6 | 1354.0 | 1335.2 | 1312.2 | 1285.8 | 1258.0 | 1232.4 | 1214.3 |
| 31.5° | 1302.4 | 1322.9 | 1329.0 | 1350.3 | 1328.0 | 1309.6 | 1286.6 | 1260.7 | 1233.1 | 1207.8 | 1190.2 |
| 32° | 1278.0 | 1298.6 | 1303.9 | 1324.2 | 1302.9 | 1283.8 | 1262.2 | 1236.4 | 1208.6 | 1183.2 | 1165.4 |
| 32.5° | 1253.7 | 1273.5 | 1278.8 | 1298.6 | 1277.3 | 1259.0 | 1236.9 | 1210.8 | 1184.0 | 1158.4 | 1141.3 |
| 33° | 1229.4 | 1248.9 | 1254.2 | 1273.8 | 1253.5 | 1234.4 | 1212.1 | 1185.0 | 1157.4 | 1131.0 | 1113.2 |
| 33.5° | 1203.8 | 1223.4 | 1228.1 | 1248.7 | 1228.1 | 1209.8 | 1185.5 | 1155.6 | 1127.5 | 1099.4 | 1080.1 |
| 34° | 1178.5 | 1197.3 | 1200.0 | 1223.4 | 1203.3 | 1184.0 | 1157.4 | 1124.8 | 1095.2 | 1066.6 | 1047.5 |
| 34.5° | 1150.1 | 1168.9 | 1169.7 | 1196.0 | 1177.0 | 1156.9 | 1126.8 | 1092.7 | 1059.1 | 1032.7 | 1011.9 |
| 35° | 1122.5 | 1138.8 | 1139.3 | 1165.9 | 1148.9 | 1129.0 | 1096.2 | 1060.8 | 1022.9 | 998.1 | 977.3 |
| 35.5° | 1091.9 | 1107.7 | 1109.0 | 1136.3 | 1120.0 | 1100.2 | 1065.1 | 1027.2 | 985.1 | 959.7 | 943.4 |
| 36° | 1059.3 | 1075.4 | 1078.1 | 1105.5 | 1089.9 | 1069.3 | 1034.0 | 993.3 | 949.7 | 921.6 | 909.3 |
| 36.5° | 1023.4 | 1042.0 | 1047.3 | 1075.4 | 1056.8 | 1035.7 | 1001.1 | 958.5 | 914.6 | 884.2 | 872.4 |
| 37° | 984.6 | 1007.9 | 1016.2 | 1044.5 | 1022.9 | 1000.1 | 967.5 | 923.4 | 881.0 | 847.3 | 836.8 |
| 37.5° | 944.2 | 972.8 | 984.3 | 1012.9 | 987.1 | 964.2 | 933.1 | 886.7 | 846.8 | 811.0 | 799.4 |
| 38° | 905.0 | 938.1 | 950.9 | 980.5 | 950.2 | 927.9 | 898.3 | 851.9 | 813.2 | 775.4 | 762.8 |
| 38.5° | 867.9 | 901.8 | 916.8 | 948.2 | 912.3 | 889.0 | 862.1 | 816.7 | 778.1 | 741.2 | 723.9 |
| 39° | 830.8 | 864.4 | 882.5 | 915.3 | 874.7 | 849.4 | 826.3 | 782.4 | 743.5 | 708.4 | 688.6 |
| 39.5° | 793.4 | 827.0 | 847.8 | 880.2 | 838.3 | 811.5 | 788.6 | 747.8 | 707.6 | 673.3 | 651.7 |
| 40° | 756.3 | 789.7 | 813.2 | 845.1 | 801.9 | 775.4 | 750.8 | 713.6 | 671.3 | 638.1 | 616.8 |
| 40.5° | 719.2 | 752.5 | 778.6 | 810.0 | 765.8 | 739.0 | 712.1 | 679.5 | 635.6 | 604.5 | 580.7 |
| 41° | 683.8 | 715.2 | 744.2 | 774.9 | 731.2 | 703.6 | 673.8 | 645.2 | 602.5 | 570.9 | 546.3 |
| 41.5° | 647.4 | 678.8 | 707.9 | 739.7 | 696.6 | 666.7 | 636.1 | 610.3 | 569.7 | 537.8 | 511.5 |
| 42° | 612.8 | 644.7 | 671.3 | 702.9 | 662.7 | 632.1 | 599.5 | 574.9 | 537.8 | 504.9 | 477.9 |
| 42.5° | 577.2 | 611.1 | 635.1 | 666.5 | 628.1 | 598.0 | 563.9 | 540.1 | 507.0 | 473.3 | 446.0 |
| 43° | 542.8 | 576.9 | 598.3 | 631.1 | 594.0 | 563.9 | 529.5 | 505.9 | 475.8 | 444.0 | 415.9 |
| 43.5° | 508.2 | 541.6 | 561.1 | 595.5 | 560.1 | 529.0 | 495.4 | 471.8 | 444.2 | 412.9 | 385.5 |



TEST NUMBER: P776057

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 413.4 | 443.5 | 456.3 | 491.4 | 461.8 | 431.2 | 400.3 | 374.0 | 352.7 | 326.1 | 304.0 |
| 45.5° | 382.8 | 411.9 | 422.4 | 458.3 | 430.4 | 400.3 | 369.7 | 343.7 | 323.6 | 298.3 | 278.7 |
| 46° | 354.2 | 381.0 | 390.3 | 425.2 | 400.8 | 370.0 | 340.9 | 314.3 | 295.7 | 272.2 | 255.1 |
| 46.5° | 325.6 | 350.9 | 358.7 | 393.1 | 369.7 | 340.6 | 312.5 | 285.7 | 268.7 | 249.6 | 234.3 |
| 47° | 298.0 | 322.1 | 327.6 | 361.2 | 339.4 | 314.1 | 285.2 | 261.4 | 243.8 | 227.3 | 213.7 |
| 47.5° | 271.2 | 294.0 | 298.5 | 331.1 | 310.8 | 287.5 | 259.4 | 237.3 | 219.2 | 204.7 | 192.9 |
| 48° | 246.1 | 266.4 | 270.7 | 301.0 | 283.7 | 261.4 | 236.3 | 213.2 | 194.4 | 182.4 | 172.1 |
| 48.5° | 222.0 | 239.1 | 244.3 | 272.2 | 258.4 | 238.0 | 213.2 | 189.1 | 169.6 | 159.8 | 154.3 |
| 49° | 199.2 | 213.7 | 219.2 | 246.1 | 232.8 | 214.7 | 190.4 | 165.1 | 148.2 | 141.5 | 137.5 |
| 49.5° | 177.3 | 189.1 | 194.9 | 219.5 | 207.4 | 191.4 | 167.3 | 145.5 | 128.2 | 123.7 | 121.9 |
| 50° | 155.8 | 165.8 | 172.1 | 195.2 | 182.1 | 168.3 | 147.7 | 127.4 | 110.1 | 108.1 | 107.4 |
| 50.5° | 136.0 | 144.0 | 150.8 | 171.6 | 156.8 | 147.7 | 128.9 | 110.9 | 94.3 | 93.3 | 93.6 |
| 51° | 117.1 | 124.2 | 130.9 | 150.3 | 135.7 | 127.9 | 112.1 | 95.6 | 80.5 | 80.5 | 81.0 |
| 51.5° | 99.6 | 105.9 | 112.4 | 129.2 | 116.9 | 110.1 | 97.1 | 82.3 | 69.2 | 69.0 | 70.0 |
| 52° | 83.3 | 89.8 | 95.1 | 110.6 | 99.1 | 93.1 | 83.0 | 69.7 | 59.2 | 58.7 | 59.7 |
| 52.5° | 71.7 | 78.3 | 82.8 | 93.6 | 82.5 | 78.0 | 70.2 | 58.7 | 50.4 | 49.4 | 49.9 |
| 53° | 60.2 | 66.7 | 70.5 | 81.5 | 68.2 | 64.5 | 58.4 | 49.2 | 42.9 | 41.4 | 41.4 |
| 53.5° | 48.7 | 55.4 | 58.2 | 69.5 | 55.7 | 52.4 | 48.4 | 40.9 | 36.1 | 34.4 | 33.9 |
| 54° | 37.4 | 43.9 | 45.9 | 57.4 | 44.9 | 42.4 | 39.6 | 33.6 | 30.1 | 30.4 | 29.9 |
| 54.5° | 29.6 | 32.6 | 33.6 | 45.4 | 35.9 | 33.9 | 34.4 | 29.6 | 26.8 | 26.3 | 25.6 |
| 55° | 23.6 | 25.6 | 26.3 | 33.4 | 31.1 | 29.6 | 29.1 | 25.6 | 23.6 | 22.1 | 21.3 |
| 55.5° | 18.8 | 20.1 | 20.3 | 26.1 | 26.6 | 25.3 | 24.1 | 21.6 | 20.3 | 18.1 | 17.3 |
| 56° | 15.8 | 16.3 | 16.1 | 20.1 | 21.8 | 21.1 | 19.1 | 17.8 | 17.1 | 14.0 | 13.0 |
| 56.5° | 14.0 | 14.3 | 14.0 | 15.8 | 17.1 | 16.8 | 14.0 | 13.8 | 13.8 | 12.8 | 12.0 |
| 57° | 13.0 | 13.0 | 12.8 | 13.5 | 12.5 | 12.5 | 12.8 | 12.8 | 12.8 | 12.0 | 11.3 |
| 57.5° | 12.3 | 12.3 | 11.8 | 12.3 | 11.5 | 11.5 | 11.8 | 12.0 | 11.8 | 11.3 | 10.5 |
| 58° | 11.3 | 11.3 | 11.0 | 11.3 | 10.8 | 10.8 | 11.0 | 11.3 | 11.0 | 10.5 | 9.8 |
| 58.5° | 10.5 | 10.5 | 10.0 | 10.5 | 10.0 | 10.0 | 10.3 | 10.5 | 10.3 | 9.8 | 9.0 |
| 59° | 9.8 | 9.8 | 9.5 | 9.8 | 9.3 | 9.3 | 9.5 | 9.8 | 9.5 | 9.0 | 8.5 |
| 59.5° | 9.3 | 9.0 | 8.8 | 9.0 | 8.5 | 8.5 | 8.8 | 9.0 | 9.0 | 8.5 | 7.8 |
| 60° | 8.5 | 8.5 | 8.3 | 8.5 | 8.0 | 8.0 | 8.3 | 8.3 | 8.3 | 7.8 | 7.3 |
| 60.5° | 8.0 | 7.8 | 7.5 | 7.8 | 7.5 | 7.5 | 7.5 | 7.8 | 7.8 | 7.3 | 6.8 |
| 61° | 7.3 | 7.3 | 7.0 | 7.3 | 6.8 | 7.0 | 7.0 | 7.3 | 7.3 | 6.8 | 6.3 |
| 61.5° | 6.8 | 6.8 | 6.5 | 6.8 | 6.5 | 6.5 | 6.5 | 6.8 | 6.8 | 6.3 | 6.0 |
| 62° | 6.3 | 6.3 | 6.0 | 6.3 | 6.0 | 6.0 | 6.3 | 6.3 | 6.3 | 6.0 | 5.5 |
| 62.5° | 6.0 | 6.0 | 5.5 | 5.8 | 5.5 | 5.5 | 5.8 | 6.0 | 6.0 | 5.5 | 5.3 |
| 63° | 5.5 | 5.5 | 5.3 | 5.5 | 5.3 | 5.3 | 5.3 | 5.5 | 5.5 | 5.3 | 4.8 |
| 63.5° | 5.3 | 5.3 | 5.0 | 5.0 | 4.8 | 5.0 | 5.0 | 5.3 | 5.3 | 5.0 | 4.5 |
| 64° | 5.0 | 4.8 | 4.5 | 4.8 | 4.5 | 4.5 | 4.8 | 5.0 | 5.0 | 4.8 | 4.3 |
| 64.5° | 4.5 | 4.5 | 4.3 | 4.5 | 4.3 | 4.3 | 4.5 | 4.5 | 4.5 | 4.3 | 4.0 |
| 65° | 4.3 | 4.3 | 4.0 | 4.3 | 4.0 | 4.0 | 4.3 | 4.3 | 4.3 | 4.0 | 3.8 |
| 65.5° | 4.0 | 4.0 | 3.8 | 4.0 | 3.8 | 3.8 | 4.0 | 4.0 | 4.0 | 3.8 | 3.5 |
| 66° | 3.8 | 3.8 | 3.5 | 3.8 | 3.5 | 3.5 | 3.8 | 3.8 | 3.8 | 3.5 | 3.3 |



TEST NUMBER: P776057

CATALOG NUMBER: HCDJBL1525CSD-HCD62TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 67.5° | 3.3 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.3 | 3.3 | 3.0 | 2.8 |
| 68° | 3.0 | 3.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 3.0 | 3.0 | 2.8 | 2.8 |
| 68.5° | 2.8 | 2.8 | 2.5 | 2.8 | 2.5 | 2.5 | 2.8 | 2.8 | 2.8 | 2.8 | 2.5 |
| 69° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.8 | 2.8 | 2.5 | 2.3 |
| 69.5° | 2.5 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.5 | 2.5 | 2.5 | 2.3 | 2.3 |
| 70° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.0 |
| 70.5° | 2.3 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.3 | 2.3 | 2.0 | 2.0 |
| 71° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.8 |
| 71.5° | 2.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 2.0 | 2.0 | 1.8 | 1.8 |
| 72° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.5 |
| 72.5° | 1.8 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.8 | 1.8 | 1.8 | 1.5 | 1.5 |
| 73° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 73.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.3 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.3 |
| 74° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 | 1.3 | 1.3 |
| 74.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 75° | 1.3 | 1.3 | 1.0 | 1.3 | 1.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.0 |
| 75.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 | 1.3 | 1.0 | 1.0 |
| 76° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 76.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.8 |
| 77° | 1.0 | 0.8 | 0.8 | 1.0 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 0.8 | 0.8 |
| 77.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 78° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 78.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 79° | 0.8 | 0.5 | 0.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.5 | 0.5 |
| 79.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 80° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 80.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 81° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 81.5° | 0.5 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 |
| 82° | 0.3 | 0.3 | 0.3 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 82.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 83° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 83.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 84° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 84.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.3 |
| 85° | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85.5° | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 86° | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 86.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 88° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 88.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P776057

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-----|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 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: P776057

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 2841.3 | 2841.3 | 2841.3 | 2841.3 | 2841.3 | 2841.3 |
| 0.5° | 2835.3 | 2837.3 | 2837.3 | 2838.5 | 2840.5 | 2842.5 |
| 1° | 2830.0 | 2833.0 | 2833.5 | 2835.8 | 2838.5 | 2842.0 |
| 1.5° | 2823.2 | 2826.7 | 2828.0 | 2831.3 | 2835.8 | 2839.8 |
| 2° | 2815.0 | 2820.0 | 2822.0 | 2826.2 | 2831.8 | 2837.3 |
| 2.5° | 2805.7 | 2811.4 | 2813.9 | 2820.0 | 2827.0 | 2833.3 |
| 3° | 2795.1 | 2801.9 | 2805.4 | 2812.2 | 2820.7 | 2828.2 |
| 3.5° | 2783.3 | 2791.9 | 2795.6 | 2803.7 | 2813.2 | 2822.5 |
| 4° | 2770.8 | 2779.3 | 2784.9 | 2793.6 | 2804.7 | 2815.2 |
| 4.5° | 2756.8 | 2766.8 | 2772.6 | 2782.6 | 2795.1 | 2806.9 |
| 5° | 2742.0 | 2752.5 | 2759.3 | 2770.3 | 2784.6 | 2797.6 |
| 5.5° | 2725.4 | 2737.7 | 2744.7 | 2757.0 | 2773.1 | 2787.6 |
| 6° | 2708.6 | 2721.9 | 2729.7 | 2742.7 | 2760.5 | 2775.8 |
| 6.5° | 2690.3 | 2704.1 | 2713.4 | 2727.7 | 2746.5 | 2763.5 |
| 7° | 2671.2 | 2685.8 | 2695.8 | 2711.4 | 2731.2 | 2749.2 |
| 7.5° | 2651.2 | 2666.0 | 2676.7 | 2693.3 | 2714.6 | 2733.9 |
| 8° | 2628.8 | 2645.1 | 2656.4 | 2674.5 | 2696.8 | 2717.6 |
| 8.5° | 2605.5 | 2623.1 | 2635.6 | 2653.9 | 2678.2 | 2700.3 |
| 9° | 2581.2 | 2599.0 | 2612.3 | 2632.3 | 2657.7 | 2681.5 |
| 9.5° | 2555.1 | 2574.4 | 2588.2 | 2609.8 | 2636.6 | 2661.7 |
| 10° | 2527.2 | 2546.8 | 2561.3 | 2585.7 | 2614.8 | 2640.9 |
| 10.5° | 2497.1 | 2519.0 | 2534.5 | 2559.8 | 2590.7 | 2618.0 |
| 11° | 2466.0 | 2489.9 | 2505.9 | 2531.8 | 2565.1 | 2594.5 |
| 11.5° | 2435.2 | 2458.0 | 2477.1 | 2503.2 | 2537.5 | 2568.9 |
| 12° | 2402.8 | 2426.6 | 2444.5 | 2474.1 | 2508.9 | 2541.3 |
| 12.5° | 2369.7 | 2393.5 | 2412.3 | 2443.0 | 2479.6 | 2512.9 |
| 13° | 2336.1 | 2360.4 | 2381.0 | 2411.8 | 2449.7 | 2483.6 |
| 13.5° | 2301.7 | 2326.3 | 2347.9 | 2378.5 | 2417.6 | 2453.2 |
| 14° | 2267.1 | 2292.7 | 2313.0 | 2344.9 | 2385.5 | 2421.6 |
| 14.5° | 2231.2 | 2257.8 | 2278.4 | 2312.3 | 2352.1 | 2389.5 |
| 15° | 2196.9 | 2222.0 | 2243.5 | 2277.4 | 2318.8 | 2356.2 |
| 15.5° | 2160.8 | 2186.3 | 2208.9 | 2242.8 | 2284.7 | 2322.3 |
| 16° | 2124.4 | 2150.5 | 2173.0 | 2206.4 | 2250.1 | 2288.4 |
| 16.5° | 2088.5 | 2114.9 | 2137.7 | 2172.3 | 2215.4 | 2254.6 |
| 17° | 2051.9 | 2079.0 | 2101.6 | 2136.9 | 2181.1 | 2220.5 |
| 17.5° | 2016.0 | 2042.4 | 2065.4 | 2101.1 | 2145.7 | 2184.8 |
| 18° | 1977.9 | 2005.5 | 2028.3 | 2064.2 | 2110.1 | 2149.7 |
| 18.5° | 1942.5 | 1968.4 | 1991.9 | 2027.8 | 2074.5 | 2114.6 |
| 19° | 1907.4 | 1932.7 | 1955.6 | 1993.4 | 2038.6 | 2079.0 |
| 19.5° | 1872.3 | 1897.9 | 1920.9 | 1958.8 | 2004.0 | 2044.1 |
| 20° | 1837.2 | 1862.8 | 1887.1 | 1923.5 | 1968.9 | 2008.5 |
| 20.5° | 1802.3 | 1828.6 | 1852.7 | 1888.8 | 1934.5 | 1973.1 |
| 21° | 1771.4 | 1793.3 | 1817.6 | 1854.0 | 1899.1 | 1938.5 |

TEST NUMBER: P776057

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 22.5° | 1672.4 | 1693.7 | 1718.3 | 1755.1 | 1798.5 | 1836.9 |
| 23° | 1640.0 | 1661.3 | 1685.2 | 1721.5 | 1765.4 | 1803.8 |
| 23.5° | 1608.1 | 1629.2 | 1653.8 | 1690.2 | 1733.3 | 1771.4 |
| 24° | 1577.5 | 1598.1 | 1622.4 | 1657.6 | 1701.5 | 1738.3 |
| 24.5° | 1545.7 | 1567.0 | 1590.8 | 1627.0 | 1669.1 | 1707.0 |
| 25° | 1515.8 | 1535.7 | 1560.0 | 1594.6 | 1638.0 | 1675.1 |
| 25.5° | 1485.0 | 1505.8 | 1530.1 | 1564.8 | 1607.1 | 1643.8 |
| 26° | 1455.1 | 1476.0 | 1500.3 | 1534.7 | 1576.8 | 1612.9 |
| 26.5° | 1426.0 | 1446.9 | 1470.9 | 1505.1 | 1546.4 | 1582.8 |
| 27° | 1396.7 | 1417.5 | 1441.3 | 1475.7 | 1516.6 | 1552.2 |
| 27.5° | 1367.8 | 1389.2 | 1412.2 | 1446.4 | 1487.0 | 1522.1 |
| 28° | 1340.2 | 1360.6 | 1383.9 | 1416.8 | 1457.9 | 1492.8 |
| 28.5° | 1313.4 | 1333.0 | 1356.6 | 1389.2 | 1429.3 | 1463.4 |
| 29° | 1287.3 | 1306.6 | 1330.0 | 1362.6 | 1401.7 | 1435.6 |
| 29.5° | 1260.5 | 1280.5 | 1302.9 | 1335.5 | 1374.1 | 1408.2 |
| 30° | 1234.9 | 1255.2 | 1277.5 | 1309.4 | 1348.0 | 1380.9 |
| 30.5° | 1210.3 | 1230.1 | 1252.2 | 1283.3 | 1321.9 | 1354.3 |
| 31° | 1186.2 | 1205.5 | 1228.1 | 1259.0 | 1296.4 | 1328.5 |
| 31.5° | 1161.7 | 1181.2 | 1204.0 | 1234.6 | 1270.8 | 1302.4 |
| 32° | 1136.8 | 1157.1 | 1179.2 | 1210.1 | 1246.4 | 1278.0 |
| 32.5° | 1109.7 | 1133.1 | 1155.1 | 1186.2 | 1222.6 | 1253.7 |
| 33° | 1079.4 | 1104.7 | 1128.0 | 1159.4 | 1198.5 | 1229.4 |
| 33.5° | 1046.3 | 1073.4 | 1097.9 | 1130.0 | 1171.9 | 1203.8 |
| 34° | 1010.4 | 1040.2 | 1065.6 | 1098.9 | 1142.8 | 1178.5 |
| 34.5° | 974.8 | 1004.6 | 1030.2 | 1068.6 | 1113.2 | 1150.1 |
| 35° | 939.9 | 968.8 | 994.3 | 1035.5 | 1082.1 | 1122.5 |
| 35.5° | 904.8 | 930.9 | 958.5 | 1003.1 | 1050.0 | 1091.9 |
| 36° | 868.9 | 889.5 | 923.6 | 969.3 | 1016.7 | 1059.3 |
| 36.5° | 831.5 | 854.4 | 901.5 | 934.6 | 982.8 | 1023.4 |
| 37° | 794.4 | 819.8 | 864.7 | 900.3 | 948.2 | 984.6 |
| 37.5° | 758.0 | 785.1 | 827.5 | 864.2 | 911.8 | 944.2 |
| 38° | 720.2 | 750.3 | 790.4 | 828.0 | 873.7 | 905.0 |
| 38.5° | 683.5 | 716.4 | 753.3 | 791.9 | 835.6 | 867.9 |
| 39° | 648.4 | 681.8 | 718.4 | 755.8 | 797.4 | 830.8 |
| 39.5° | 614.1 | 647.2 | 682.0 | 719.7 | 759.3 | 793.4 |
| 40° | 579.4 | 612.6 | 645.9 | 684.0 | 720.9 | 756.3 |
| 40.5° | 546.3 | 578.7 | 610.3 | 648.9 | 682.5 | 719.2 |
| 41° | 513.2 | 545.3 | 575.2 | 613.8 | 644.2 | 683.8 |
| 41.5° | 479.6 | 512.0 | 541.6 | 577.7 | 605.8 | 647.4 |
| 42° | 446.7 | 481.4 | 509.0 | 543.8 | 570.2 | 612.8 |
| 42.5° | 416.6 | 449.5 | 477.9 | 508.5 | 534.5 | 577.2 |
| 43° | 385.8 | 421.2 | 446.7 | 473.8 | 501.7 | 542.8 |
| 43.5° | 356.9 | 391.3 | 415.4 | 438.5 | 467.8 | 508.2 |



TEST NUMBER: P776057

CATALOG NUMBER: HCDJBLS1525CSD-HCD62TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 277.9 | 306.3 | 324.8 | 341.6 | 375.8 | 413.4 |
| 45.5° | 254.4 | 279.7 | 296.2 | 312.5 | 346.4 | 382.8 |
| 46° | 233.3 | 253.4 | 268.7 | 284.5 | 318.8 | 354.2 |
| 46.5° | 212.2 | 228.0 | 241.8 | 258.1 | 292.0 | 325.6 |
| 47° | 191.1 | 204.7 | 216.7 | 233.3 | 266.1 | 298.0 |
| 47.5° | 170.1 | 182.6 | 192.9 | 209.5 | 241.1 | 271.2 |
| 48° | 152.3 | 161.3 | 170.6 | 187.1 | 217.2 | 246.1 |
| 48.5° | 135.5 | 141.7 | 149.5 | 166.3 | 194.4 | 222.0 |
| 49° | 119.2 | 123.9 | 129.7 | 147.2 | 172.6 | 199.2 |
| 49.5° | 104.6 | 107.4 | 111.6 | 129.7 | 152.5 | 177.3 |
| 50° | 91.3 | 91.8 | 95.6 | 112.9 | 133.4 | 155.8 |
| 50.5° | 78.8 | 81.8 | 85.0 | 97.8 | 116.1 | 136.0 |
| 51° | 67.5 | 71.5 | 74.5 | 84.0 | 100.3 | 117.1 |
| 51.5° | 56.9 | 61.5 | 64.0 | 73.5 | 85.5 | 99.6 |
| 52° | 47.9 | 51.4 | 53.4 | 63.2 | 74.5 | 83.3 |
| 52.5° | 39.6 | 41.1 | 42.9 | 52.7 | 63.5 | 71.7 |
| 53° | 32.4 | 34.4 | 36.1 | 42.4 | 52.7 | 60.2 |
| 53.5° | 28.3 | 28.1 | 29.9 | 34.9 | 41.9 | 48.7 |
| 54° | 24.6 | 23.1 | 24.6 | 28.1 | 33.6 | 37.4 |
| 54.5° | 20.6 | 18.8 | 20.1 | 22.6 | 26.8 | 29.6 |
| 55° | 16.6 | 15.6 | 16.3 | 18.1 | 21.3 | 23.6 |
| 55.5° | 12.5 | 13.3 | 13.8 | 15.1 | 17.1 | 18.8 |
| 56° | 11.5 | 12.0 | 12.5 | 13.3 | 14.8 | 15.8 |
| 56.5° | 10.8 | 11.3 | 11.5 | 12.3 | 13.3 | 14.0 |
| 57° | 10.0 | 10.5 | 10.8 | 11.5 | 12.3 | 13.0 |
| 57.5° | 9.5 | 9.8 | 10.0 | 10.5 | 11.5 | 12.3 |
| 58° | 8.8 | 9.3 | 9.5 | 9.8 | 10.8 | 11.3 |
| 58.5° | 8.0 | 8.5 | 8.8 | 9.3 | 10.0 | 10.5 |
| 59° | 7.5 | 8.0 | 8.3 | 8.5 | 9.3 | 9.8 |
| 59.5° | 7.0 | 7.3 | 7.5 | 8.0 | 8.8 | 9.3 |
| 60° | 6.5 | 6.8 | 7.0 | 7.3 | 8.0 | 8.5 |
| 60.5° | 6.0 | 6.3 | 6.5 | 6.8 | 7.5 | 8.0 |
| 61° | 5.8 | 6.0 | 6.0 | 6.3 | 6.8 | 7.3 |
| 61.5° | 5.3 | 5.5 | 5.8 | 6.0 | 6.5 | 6.8 |
| 62° | 5.0 | 5.3 | 5.3 | 5.5 | 6.0 | 6.3 |
| 62.5° | 4.8 | 4.8 | 5.0 | 5.3 | 5.5 | 6.0 |
| 63° | 4.5 | 4.5 | 4.8 | 4.8 | 5.3 | 5.5 |
| 63.5° | 4.3 | 4.3 | 4.3 | 4.5 | 5.0 | 5.3 |
| 64° | 4.0 | 4.0 | 4.0 | 4.3 | 4.8 | 5.0 |
| 64.5° | 3.8 | 3.8 | 3.8 | 4.0 | 4.3 | 4.5 |
| 65° | 3.5 | 3.5 | 3.5 | 3.8 | 4.0 | 4.3 |
| 65.5° | 3.3 | 3.3 | 3.5 | 3.5 | 3.8 | 4.0 |
| 66° | 3.0 | 3.3 | 3.3 | 3.3 | 3.5 | 3.8 |



TEST NUMBER: P776057

CATALOG NUMBER: HCDJBL51525CSD-HCD62TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 2.5 | 2.5 | 2.8 | 2.8 | 3.0 | 3.3 |
| 68° | 2.5 | 2.5 | 2.5 | 2.5 | 2.8 | 3.0 |
| 68.5° | 2.3 | 2.3 | 2.3 | 2.5 | 2.8 | 2.8 |
| 69° | 2.0 | 2.3 | 2.3 | 2.3 | 2.5 | 2.5 |
| 69.5° | 2.0 | 2.0 | 2.0 | 2.3 | 2.3 | 2.5 |
| 70° | 1.8 | 2.0 | 2.0 | 2.0 | 2.3 | 2.3 |
| 70.5° | 1.8 | 1.8 | 1.8 | 2.0 | 2.0 | 2.3 |
| 71° | 1.8 | 1.8 | 1.8 | 1.8 | 2.0 | 2.0 |
| 71.5° | 1.5 | 1.5 | 1.5 | 1.8 | 1.8 | 2.0 |
| 72° | 1.5 | 1.5 | 1.5 | 1.5 | 1.8 | 1.8 |
| 72.5° | 1.3 | 1.5 | 1.5 | 1.5 | 1.5 | 1.8 |
| 73° | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 | 1.5 |
| 73.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 |
| 74° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 74.5° | 1.0 | 1.0 | 1.0 | 1.3 | 1.3 | 1.3 |
| 75° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| 75.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 76° | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 76.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 |
| 77° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 |
| 77.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 78° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 78.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 |
| 79° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 |
| 79.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 80° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 80.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 81° | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 81.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 |
| 82° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 82.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 83° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 83.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 84° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 84.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.3 |
| 85° | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| 85.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 86° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 86.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 88° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 88.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P776057

CATALOG NUMBER: HCDJBL1525CSD-HCD62TRH-2500lm-3500K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-----|--------|------|--------|------|--------|------|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





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

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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





| | | | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 21.5° | 1904.6 | 1931.5 | 1944.5 | 1976.9 | 1943.0 | 1920.7 | 1893.9 | 1861.0 | 1828.1 | 1799.5 | 1778.7 |
| 22° | 1870.0 | 1897.1 | 1908.9 | 1941.0 | 1909.7 | 1887.3 | 1860.7 | 1827.6 | 1794.8 | 1765.2 | 1744.9 |



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44° | 476.1 | 508.2 | 526.3 | 560.1 | 526.5 | 494.2 | 462.6 | 438.2 | 412.9 | 383.3 | 357.2 |
| 44.5° | 445.0 | 475.6 | 490.9 | 525.0 | 493.7 | 462.3 | 431.2 | 405.1 | 382.3 | 353.7 | 329.9 |



| | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 66.5° | 3.5 | 3.5 | 3.3 | 3.5 | 3.3 | 3.3 | 3.5 | 3.5 | 3.5 | 3.5 | 3.3 |
| 67° | 3.3 | 3.3 | 3.3 | 3.3 | 3.0 | 3.3 | 3.3 | 3.3 | 3.5 | 3.3 | 3.0 |



| | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 89° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 89.5° | 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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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





| | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|
| 21.5° | 1738.6 | 1759.9 | 1784.7 | 1821.1 | 1865.5 | 1904.6 |
| 22° | 1705.0 | 1726.3 | 1750.4 | 1787.0 | 1832.2 | 1870.0 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 44° | 328.9 | 362.2 | 384.5 | 405.4 | 435.7 | 476.1 |
| 44.5° | 303.0 | 333.6 | 354.4 | 372.0 | 405.1 | 445.0 |



| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| 66.5° | 2.8 | 3.0 | 3.0 | 3.3 | 3.5 | 3.5 |
| 67° | 2.8 | 2.8 | 2.8 | 3.0 | 3.3 | 3.3 |

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Peachtree City, GA 30269

Scaled Data Report



| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| 89° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 89.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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(END OF REPORT)