

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: P775954

Luminaire Tested: HCDJBS1525CSD-HCD42TRC-2500lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P775954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B049)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD42TRC-2500lm-5000K
Description: 4 INCH ROUND NARROW SPECULAR CLEAR TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

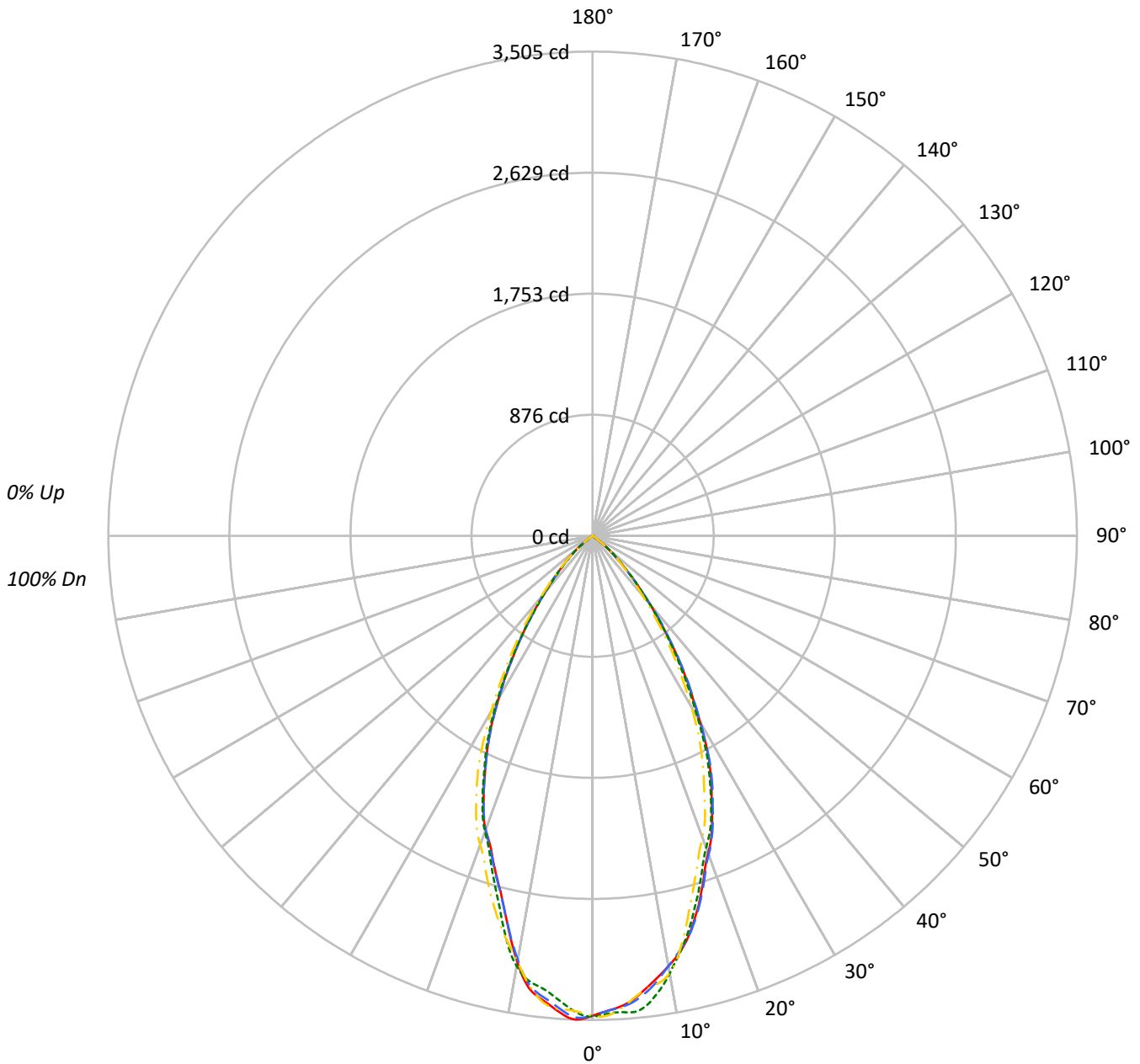
Lumens per Lamp: N/A
Luminaire Lumens: 2859.9 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.81 / 0.84
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P775954
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P775954

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

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 | | | | | | | | |
| 1 | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | | | | | | | |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 94 | 98 | 95 | 92 | 95 | 93 | 90 | 92 | 90 | 89 | 87 | | | | | | | | |
| 3 | 102 | 96 | 91 | 87 | 100 | 95 | 90 | 86 | 92 | 88 | 85 | 89 | 86 | 84 | 87 | 85 | 82 | 81 | | | | | | | | |
| 4 | 97 | 90 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | | | | | | | | |
| 5 | 92 | 84 | 78 | 74 | 90 | 83 | 77 | 73 | 81 | 76 | 73 | 79 | 75 | 72 | 78 | 74 | 71 | 70 | | | | | | | | |
| 6 | 87 | 78 | 72 | 68 | 86 | 78 | 72 | 68 | 76 | 71 | 67 | 75 | 70 | 67 | 73 | 70 | 66 | 65 | | | | | | | | |
| 7 | 83 | 74 | 68 | 63 | 82 | 73 | 67 | 63 | 72 | 67 | 63 | 71 | 66 | 63 | 69 | 65 | 62 | 61 | | | | | | | | |
| 8 | 79 | 69 | 63 | 59 | 78 | 69 | 63 | 59 | 68 | 62 | 59 | 67 | 62 | 59 | 66 | 61 | 58 | 57 | | | | | | | | |
| 9 | 75 | 65 | 59 | 55 | 74 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 62 | 58 | 55 | 53 | | | | | | | | |
| 10 | 72 | 62 | 56 | 52 | 71 | 61 | 56 | 52 | 61 | 55 | 52 | 60 | 55 | 52 | 59 | 55 | 52 | 50 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|--------|--------|
| 0° | 437378 | 437378 | 437378 | 437378 |
| 5° | 425772 | 437280 | 431975 | 421666 |
| 10° | 404165 | 410938 | 400600 | 404472 |
| 15° | 373018 | 367872 | 341527 | 349475 |
| 20° | 327343 | 321772 | 303210 | 305178 |
| 25° | 282788 | 280358 | 254613 | 257266 |
| 30° | 225971 | 220986 | 198215 | 201136 |
| 35° | 164773 | 160087 | 139623 | 140575 |
| 40° | 105323 | 104420 | 89535 | 87548 |
| 45° | 58822 | 60424 | 53536 | 52023 |
| 50° | 26745 | 28565 | 26529 | 25531 |
| 55° | 1580 | 1536 | 1251 | 1426 |
| 60° | 453 | 579 | 529 | 529 |
| 65° | 238 | 298 | 298 | 298 |
| 70° | 184 | 184 | 184 | 184 |
| 75° | 146 | 146 | 146 | 146 |
| 80° | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 60424 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 317.1 | 11.1 |
| 10°-20° | 767.3 | 26.8 |
| 20°-30° | 880.2 | 30.8 |
| 30°-40° | 615.3 | 21.5 |
| 40°-50° | 251.0 | 8.8 |
| 50°-60° | 27.6 | 1.0 |
| 60°-70° | 1.1 | 0.0 |
| 70°-80° | 0.3 | 0.0 |
| 80°-90° | 0.0 | 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° | 1964.7 | 68.7 |
| 0°-40° | 2580.0 | 90.2 |
| 0°-60° | 2858.5 | 100.0 |
| 0°-90° | 2859.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2859.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 3475 | 3475 | 3475 | 3475 | 3475 | |
| 5° | 3370 | 3461 | 3419 | 3338 | 3370 | 315 |
| 15° | 2863 | 2824 | 2621 | 2682 | 2863 | 794 |
| 25° | 2036 | 2019 | 1834 | 1853 | 2036 | 928 |
| 35° | 1072 | 1042 | 909 | 915 | 1072 | 666 |
| 45° | 330 | 340 | 301 | 292 | 330 | 265 |
| 55° | 7 | 7 | 6 | 6 | 7 | 27 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P775954

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3475.4 | 3475.4 | 3475.4 | 3475.4 | 3475.4 | 3475.4 | 3475.4 | 3475.4 | 3475.4 | 3475.4 | 3475.4 |
| 0.5° | 3464.3 | 3464.0 | 3464.0 | 3464.8 | 3476.9 | 3478.0 | 3481.1 | 3484.2 | 3485.5 | 3485.2 | 3481.8 |
| 1° | 3455.0 | 3454.2 | 3455.5 | 3457.6 | 3470.7 | 3475.1 | 3482.4 | 3490.1 | 3495.3 | 3495.0 | 3488.6 |
| 1.5° | 3446.0 | 3444.9 | 3447.2 | 3451.4 | 3465.1 | 3469.7 | 3479.3 | 3491.7 | 3502.2 | 3502.8 | 3491.7 |
| 2° | 3437.4 | 3435.1 | 3439.5 | 3447.0 | 3459.4 | 3462.2 | 3471.3 | 3487.5 | 3504.8 | 3506.9 | 3489.1 |
| 2.5° | 3429.2 | 3424.8 | 3431.8 | 3444.4 | 3455.8 | 3453.7 | 3458.9 | 3476.7 | 3499.9 | 3504.8 | 3480.3 |
| 3° | 3420.7 | 3412.6 | 3424.8 | 3444.4 | 3454.5 | 3444.4 | 3443.6 | 3461.4 | 3489.3 | 3495.3 | 3466.1 |
| 3.5° | 3411.4 | 3398.7 | 3417.3 | 3447.5 | 3455.5 | 3434.9 | 3425.8 | 3443.4 | 3474.4 | 3481.8 | 3449.1 |
| 4° | 3400.8 | 3383.7 | 3409.3 | 3451.6 | 3458.9 | 3424.3 | 3405.9 | 3423.2 | 3457.1 | 3464.5 | 3431.0 |
| 4.5° | 3387.1 | 3365.1 | 3399.5 | 3456.3 | 3461.4 | 3411.9 | 3385.0 | 3402.6 | 3438.5 | 3446.5 | 3412.1 |
| 5° | 3370.3 | 3345.0 | 3387.9 | 3458.1 | 3461.4 | 3396.4 | 3364.1 | 3382.2 | 3419.4 | 3428.7 | 3393.8 |
| 5.5° | 3350.7 | 3323.8 | 3372.4 | 3454.5 | 3455.5 | 3378.3 | 3343.7 | 3363.9 | 3401.8 | 3410.3 | 3376.8 |
| 6° | 3330.0 | 3302.7 | 3354.3 | 3444.4 | 3442.6 | 3357.1 | 3325.4 | 3347.6 | 3385.5 | 3392.3 | 3361.3 |
| 6.5° | 3308.6 | 3283.8 | 3334.9 | 3426.8 | 3424.8 | 3337.5 | 3309.9 | 3334.2 | 3369.5 | 3374.4 | 3346.0 |
| 7° | 3288.7 | 3268.1 | 3314.8 | 3402.6 | 3402.6 | 3318.4 | 3298.3 | 3322.5 | 3351.7 | 3354.8 | 3329.5 |
| 7.5° | 3268.3 | 3254.1 | 3293.4 | 3372.1 | 3376.5 | 3300.1 | 3289.2 | 3312.0 | 3331.8 | 3330.3 | 3309.4 |
| 8° | 3248.7 | 3241.7 | 3270.1 | 3335.7 | 3349.1 | 3283.3 | 3280.7 | 3299.3 | 3306.3 | 3299.6 | 3283.6 |
| 8.5° | 3226.8 | 3230.9 | 3244.1 | 3293.6 | 3319.2 | 3265.7 | 3271.7 | 3282.5 | 3272.2 | 3261.6 | 3250.5 |
| 9° | 3205.3 | 3220.8 | 3216.9 | 3249.0 | 3287.7 | 3246.6 | 3257.5 | 3259.5 | 3231.9 | 3216.4 | 3212.3 |
| 9.5° | 3183.4 | 3211.3 | 3189.8 | 3204.3 | 3252.1 | 3227.0 | 3238.4 | 3229.6 | 3184.2 | 3164.5 | 3166.3 |
| 10° | 3162.7 | 3203.0 | 3162.7 | 3160.1 | 3215.7 | 3205.1 | 3214.1 | 3193.5 | 3134.8 | 3108.8 | 3118.8 |
| 10.5° | 3141.0 | 3194.7 | 3136.7 | 3120.6 | 3178.5 | 3180.3 | 3182.9 | 3152.9 | 3083.0 | 3047.8 | 3069.8 |
| 11° | 3119.9 | 3185.2 | 3111.9 | 3084.2 | 3141.6 | 3151.6 | 3146.5 | 3108.8 | 3029.2 | 2986.4 | 3020.0 |
| 11.5° | 3096.4 | 3171.0 | 3087.1 | 3052.0 | 3106.4 | 3118.6 | 3103.1 | 3062.8 | 2973.5 | 2924.7 | 2967.5 |
| 12° | 3071.3 | 3149.8 | 3062.6 | 3022.5 | 3069.8 | 3080.6 | 3057.1 | 3015.6 | 2919.0 | 2862.2 | 2914.4 |
| 12.5° | 3042.7 | 3120.9 | 3036.7 | 2995.4 | 3032.3 | 3037.3 | 3005.8 | 2966.5 | 2863.8 | 2802.0 | 2860.1 |
| 13° | 3012.7 | 3085.5 | 3010.7 | 2968.3 | 2994.9 | 2991.6 | 2953.9 | 2916.2 | 2809.0 | 2746.0 | 2809.8 |
| 13.5° | 2978.1 | 3045.5 | 2980.5 | 2938.6 | 2954.4 | 2941.2 | 2899.9 | 2862.5 | 2756.9 | 2693.1 | 2758.4 |
| 14° | 2942.2 | 3001.9 | 2947.9 | 2905.6 | 2911.0 | 2890.1 | 2846.7 | 2812.9 | 2707.6 | 2645.3 | 2710.1 |
| 14.5° | 2903.5 | 2956.4 | 2912.0 | 2871.2 | 2867.4 | 2837.2 | 2794.0 | 2761.8 | 2661.6 | 2600.2 | 2665.7 |
| 15° | 2863.0 | 2908.4 | 2874.1 | 2835.1 | 2823.5 | 2786.0 | 2744.7 | 2714.3 | 2621.3 | 2558.3 | 2625.7 |
| 15.5° | 2823.0 | 2863.0 | 2834.3 | 2799.2 | 2779.6 | 2738.0 | 2697.2 | 2667.5 | 2580.8 | 2520.1 | 2586.5 |
| 16° | 2781.4 | 2816.5 | 2793.5 | 2761.3 | 2736.2 | 2691.3 | 2650.2 | 2622.4 | 2541.8 | 2482.4 | 2547.7 |
| 16.5° | 2738.5 | 2768.5 | 2751.4 | 2721.5 | 2692.8 | 2644.3 | 2602.5 | 2575.4 | 2501.0 | 2444.5 | 2507.2 |
| 17° | 2693.1 | 2720.2 | 2707.6 | 2678.9 | 2647.7 | 2597.3 | 2557.6 | 2528.4 | 2461.0 | 2406.5 | 2467.4 |
| 17.5° | 2648.2 | 2670.4 | 2662.9 | 2636.0 | 2601.7 | 2550.1 | 2512.4 | 2481.9 | 2420.2 | 2369.1 | 2426.9 |
| 18° | 2601.7 | 2621.3 | 2616.4 | 2592.4 | 2557.6 | 2503.3 | 2468.2 | 2438.3 | 2381.7 | 2334.0 | 2389.2 |
| 18.5° | 2556.5 | 2574.1 | 2570.5 | 2549.0 | 2512.9 | 2459.4 | 2426.1 | 2395.4 | 2347.6 | 2302.7 | 2353.6 |
| 19° | 2514.4 | 2530.2 | 2527.3 | 2508.5 | 2472.4 | 2419.7 | 2389.0 | 2359.5 | 2318.0 | 2275.6 | 2324.2 |
| 19.5° | 2477.5 | 2491.5 | 2488.9 | 2473.4 | 2434.7 | 2385.9 | 2356.4 | 2327.0 | 2291.1 | 2249.8 | 2293.9 |
| 20° | 2444.2 | 2456.3 | 2454.8 | 2441.9 | 2402.6 | 2354.4 | 2325.7 | 2295.5 | 2264.0 | 2222.4 | 2264.0 |
| 20.5° | 2414.3 | 2423.3 | 2423.3 | 2413.2 | 2372.7 | 2323.1 | 2293.4 | 2260.9 | 2232.8 | 2190.4 | 2229.7 |
| 21° | 2380.2 | 2388.2 | 2388.2 | 2383.3 | 2342.5 | 2289.0 | 2255.5 | 2221.7 | 2196.6 | 2154.3 | 2191.4 |



TEST NUMBER: P775954

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 2259.9 | 2268.1 | 2272.3 | 2280.3 | 2237.9 | 2173.6 | 2124.1 | 2078.4 | 2061.8 | 2026.2 | 2062.4 |
| 23° | 2212.1 | 2223.5 | 2227.1 | 2239.0 | 2195.1 | 2130.0 | 2075.3 | 2027.2 | 2016.1 | 1984.4 | 2015.9 |
| 23.5° | 2165.6 | 2179.8 | 2182.9 | 2197.1 | 2150.9 | 2087.9 | 2025.7 | 1980.3 | 1970.4 | 1942.3 | 1969.7 |
| 24° | 2120.7 | 2136.5 | 2138.0 | 2152.5 | 2107.3 | 2046.9 | 1983.1 | 1933.3 | 1925.0 | 1900.5 | 1923.5 |
| 24.5° | 2077.8 | 2095.9 | 2096.2 | 2106.2 | 2062.6 | 2003.5 | 1940.5 | 1886.3 | 1879.3 | 1858.4 | 1877.2 |
| 25° | 2036.5 | 2055.9 | 2052.8 | 2057.2 | 2019.0 | 1961.7 | 1897.9 | 1839.3 | 1833.6 | 1816.3 | 1830.8 |
| 25.5° | 1997.0 | 2016.9 | 2012.3 | 2009.9 | 1973.8 | 1920.1 | 1855.3 | 1795.4 | 1790.0 | 1775.3 | 1784.6 |
| 26° | 1955.5 | 1977.7 | 1968.9 | 1959.6 | 1928.6 | 1878.3 | 1812.7 | 1753.1 | 1747.1 | 1731.4 | 1741.4 |
| 26.5° | 1912.9 | 1936.4 | 1925.3 | 1910.3 | 1883.2 | 1836.4 | 1770.1 | 1709.7 | 1701.9 | 1686.2 | 1696.0 |
| 27° | 1868.2 | 1892.0 | 1878.0 | 1857.9 | 1837.7 | 1788.2 | 1726.5 | 1666.8 | 1656.8 | 1639.7 | 1650.0 |
| 27.5° | 1821.5 | 1846.0 | 1829.5 | 1808.3 | 1792.3 | 1740.4 | 1681.0 | 1622.2 | 1610.0 | 1591.9 | 1603.6 |
| 28° | 1771.4 | 1797.7 | 1777.8 | 1756.4 | 1738.3 | 1690.6 | 1634.5 | 1573.6 | 1562.3 | 1543.2 | 1555.0 |
| 28.5° | 1718.7 | 1747.9 | 1723.9 | 1706.8 | 1683.1 | 1639.7 | 1583.4 | 1524.6 | 1511.9 | 1491.5 | 1504.9 |
| 29° | 1663.2 | 1698.8 | 1668.9 | 1655.5 | 1628.4 | 1589.4 | 1532.1 | 1475.0 | 1462.6 | 1440.4 | 1456.1 |
| 29.5° | 1609.5 | 1646.9 | 1614.4 | 1605.6 | 1574.1 | 1537.2 | 1479.9 | 1423.4 | 1413.3 | 1389.3 | 1406.1 |
| 30° | 1555.0 | 1594.5 | 1561.2 | 1555.5 | 1520.7 | 1485.1 | 1428.3 | 1372.8 | 1364.0 | 1340.7 | 1356.7 |
| 30.5° | 1501.6 | 1542.1 | 1509.1 | 1505.7 | 1468.0 | 1433.4 | 1376.4 | 1324.5 | 1314.9 | 1290.1 | 1307.2 |
| 31° | 1449.9 | 1488.7 | 1458.7 | 1454.3 | 1419.7 | 1384.6 | 1326.5 | 1278.0 | 1267.4 | 1241.9 | 1261.0 |
| 31.5° | 1399.9 | 1437.0 | 1411.0 | 1404.5 | 1366.3 | 1334.8 | 1279.3 | 1231.8 | 1220.4 | 1194.9 | 1213.5 |
| 32° | 1351.6 | 1385.7 | 1363.7 | 1354.4 | 1318.0 | 1285.7 | 1232.6 | 1187.6 | 1173.4 | 1152.3 | 1167.5 |
| 32.5° | 1304.1 | 1334.3 | 1317.2 | 1305.4 | 1269.5 | 1234.9 | 1186.6 | 1142.5 | 1125.7 | 1107.1 | 1122.1 |
| 33° | 1258.4 | 1284.5 | 1272.1 | 1257.3 | 1225.1 | 1187.1 | 1140.6 | 1098.8 | 1080.5 | 1064.2 | 1076.6 |
| 33.5° | 1212.2 | 1235.1 | 1224.8 | 1210.6 | 1175.8 | 1138.3 | 1096.2 | 1056.0 | 1034.8 | 1021.4 | 1032.7 |
| 34° | 1165.9 | 1186.1 | 1178.1 | 1165.2 | 1129.3 | 1092.4 | 1051.3 | 1012.6 | 993.0 | 981.9 | 988.8 |
| 34.5° | 1119.0 | 1136.3 | 1131.1 | 1120.8 | 1084.9 | 1044.9 | 1006.7 | 967.7 | 949.9 | 940.0 | 947.0 |
| 35° | 1072.5 | 1087.5 | 1084.6 | 1075.6 | 1042.0 | 999.7 | 960.7 | 924.5 | 908.8 | 900.0 | 905.7 |
| 35.5° | 1026.5 | 1039.7 | 1038.4 | 1031.4 | 997.6 | 954.8 | 916.0 | 882.5 | 868.5 | 860.3 | 865.2 |
| 36° | 980.8 | 993.0 | 991.9 | 986.8 | 954.5 | 912.9 | 871.4 | 841.2 | 830.1 | 822.6 | 824.6 |
| 36.5° | 934.1 | 947.0 | 947.0 | 940.6 | 912.4 | 868.0 | 827.0 | 798.3 | 790.0 | 783.3 | 785.4 |
| 37° | 891.0 | 904.4 | 903.9 | 897.7 | 872.7 | 825.9 | 783.6 | 756.7 | 751.3 | 747.7 | 746.7 |
| 37.5° | 847.9 | 861.8 | 860.8 | 854.8 | 829.8 | 784.6 | 742.5 | 718.3 | 713.4 | 712.1 | 709.2 |
| 38° | 804.8 | 819.0 | 817.9 | 811.7 | 790.0 | 746.1 | 702.5 | 679.8 | 677.5 | 677.5 | 672.3 |
| 38.5° | 761.6 | 776.4 | 774.8 | 768.9 | 750.3 | 707.4 | 664.6 | 641.8 | 642.6 | 643.9 | 637.5 |
| 39° | 718.5 | 733.8 | 731.7 | 726.0 | 712.8 | 670.2 | 627.6 | 604.9 | 608.8 | 611.9 | 603.6 |
| 39.5° | 678.5 | 693.2 | 691.2 | 687.3 | 672.3 | 634.6 | 591.8 | 569.5 | 575.7 | 579.9 | 571.4 |
| 40° | 641.1 | 654.5 | 650.9 | 649.8 | 635.6 | 600.5 | 557.2 | 535.0 | 545.0 | 549.7 | 539.6 |
| 40.5° | 603.6 | 617.3 | 611.1 | 614.0 | 599.8 | 567.5 | 523.9 | 502.7 | 515.8 | 520.5 | 510.4 |
| 41° | 566.5 | 581.7 | 574.2 | 578.3 | 565.9 | 536.2 | 492.6 | 471.4 | 487.7 | 493.1 | 482.0 |
| 41.5° | 531.3 | 546.6 | 538.6 | 544.0 | 532.4 | 505.8 | 463.2 | 443.6 | 460.9 | 466.5 | 454.9 |
| 42° | 499.8 | 514.0 | 505.3 | 510.4 | 502.4 | 477.1 | 435.6 | 417.0 | 434.5 | 441.2 | 429.1 |
| 42.5° | 468.9 | 482.0 | 472.7 | 477.1 | 472.0 | 449.8 | 410.0 | 393.2 | 410.5 | 417.0 | 404.1 |
| 43° | 438.9 | 450.8 | 442.0 | 446.1 | 443.6 | 423.2 | 386.2 | 371.0 | 386.8 | 393.5 | 380.6 |
| 43.5° | 409.0 | 419.8 | 412.8 | 415.4 | 415.9 | 397.6 | 363.8 | 350.6 | 363.8 | 370.5 | 358.1 |



TEST NUMBER: P775954

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 45° | 330.5 | 335.9 | 333.3 | 334.6 | 339.5 | 328.9 | 303.6 | 293.0 | 300.8 | 306.2 | 296.9 |
| 45.5° | 304.9 | 310.6 | 308.8 | 311.4 | 316.8 | 306.5 | 285.3 | 275.7 | 281.7 | 286.1 | 278.3 |
| 46° | 283.0 | 287.6 | 285.8 | 288.9 | 293.8 | 285.5 | 267.2 | 258.7 | 263.1 | 266.4 | 260.2 |
| 46.5° | 260.2 | 264.6 | 263.3 | 266.7 | 272.9 | 265.9 | 250.4 | 242.7 | 246.0 | 248.9 | 243.5 |
| 47° | 239.9 | 242.9 | 242.4 | 246.3 | 252.5 | 248.1 | 233.9 | 226.7 | 229.3 | 231.6 | 226.9 |
| 47.5° | 218.7 | 221.8 | 221.8 | 226.4 | 233.7 | 230.0 | 217.4 | 210.7 | 212.2 | 214.0 | 210.2 |
| 48° | 200.1 | 202.7 | 202.4 | 207.1 | 214.8 | 212.2 | 200.9 | 194.7 | 195.2 | 196.5 | 193.6 |
| 48.5° | 182.3 | 184.6 | 184.6 | 189.2 | 196.0 | 194.2 | 184.3 | 178.9 | 178.4 | 178.9 | 177.1 |
| 49° | 166.8 | 168.1 | 168.1 | 172.2 | 177.4 | 176.3 | 169.4 | 164.2 | 163.7 | 164.5 | 162.7 |
| 49.5° | 151.6 | 152.1 | 152.3 | 155.4 | 161.1 | 160.6 | 155.2 | 150.3 | 149.2 | 150.3 | 148.7 |
| 50° | 136.6 | 136.6 | 136.8 | 139.9 | 145.9 | 145.4 | 139.9 | 136.1 | 135.5 | 136.3 | 134.5 |
| 50.5° | 120.8 | 120.8 | 120.6 | 123.4 | 129.9 | 129.3 | 125.0 | 121.1 | 121.1 | 121.6 | 119.8 |
| 51° | 103.8 | 103.5 | 103.0 | 105.3 | 112.3 | 112.1 | 107.9 | 104.6 | 104.8 | 104.8 | 103.0 |
| 51.5° | 84.9 | 84.7 | 84.4 | 84.7 | 93.7 | 93.5 | 90.6 | 87.8 | 88.0 | 87.5 | 86.0 |
| 52° | 69.5 | 69.2 | 69.2 | 69.5 | 74.6 | 73.6 | 71.5 | 70.0 | 70.2 | 69.2 | 67.6 |
| 52.5° | 54.0 | 53.7 | 54.2 | 54.2 | 57.1 | 55.5 | 54.0 | 53.2 | 52.7 | 52.2 | 50.9 |
| 53° | 38.5 | 38.5 | 39.0 | 38.7 | 47.0 | 45.7 | 44.1 | 43.6 | 43.1 | 42.9 | 41.8 |
| 53.5° | 23.0 | 23.2 | 24.0 | 23.8 | 36.9 | 35.9 | 34.6 | 34.1 | 33.8 | 33.6 | 32.5 |
| 54° | 13.9 | 14.2 | 14.7 | 14.7 | 26.6 | 25.8 | 25.0 | 24.5 | 24.5 | 24.3 | 23.5 |
| 54.5° | 8.3 | 8.5 | 9.0 | 8.8 | 16.5 | 16.0 | 15.5 | 15.2 | 15.2 | 15.0 | 14.2 |
| 55° | 7.2 | 7.2 | 7.5 | 7.5 | 7.0 | 6.5 | 5.9 | 5.7 | 5.7 | 5.7 | 5.7 |
| 55.5° | 5.9 | 5.9 | 6.2 | 6.2 | 5.4 | 5.2 | 4.6 | 4.6 | 4.4 | 4.4 | 4.6 |
| 56° | 4.6 | 4.6 | 4.9 | 5.2 | 4.6 | 4.4 | 4.1 | 3.9 | 3.9 | 3.9 | 4.1 |
| 56.5° | 3.4 | 3.4 | 3.6 | 3.9 | 4.1 | 3.9 | 3.6 | 3.6 | 3.4 | 3.6 | 3.6 |
| 57° | 3.1 | 3.1 | 3.4 | 3.6 | 3.9 | 3.6 | 3.4 | 3.1 | 3.1 | 3.1 | 3.4 |
| 57.5° | 2.8 | 2.8 | 3.1 | 3.4 | 3.4 | 3.4 | 3.1 | 2.8 | 2.8 | 2.8 | 3.1 |
| 58° | 2.6 | 2.6 | 2.8 | 3.1 | 3.1 | 3.1 | 2.8 | 2.8 | 2.6 | 2.6 | 2.8 |
| 58.5° | 2.3 | 2.3 | 2.6 | 2.8 | 2.8 | 2.8 | 2.6 | 2.6 | 2.3 | 2.6 | 2.6 |
| 59° | 2.1 | 2.3 | 2.3 | 2.6 | 2.8 | 2.6 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 59.5° | 2.1 | 2.1 | 2.3 | 2.3 | 2.6 | 2.3 | 2.3 | 2.1 | 2.1 | 2.1 | 2.3 |
| 60° | 1.8 | 1.8 | 2.1 | 2.3 | 2.3 | 2.3 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 60.5° | 1.8 | 1.8 | 1.8 | 2.1 | 2.1 | 2.1 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 61° | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 1.8 | 1.8 | 1.8 | 1.5 | 1.8 | 1.8 |
| 61.5° | 1.5 | 1.5 | 1.5 | 1.8 | 1.8 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 62° | 1.3 | 1.3 | 1.5 | 1.5 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 62.5° | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 | 1.5 | 1.5 | 1.3 | 1.3 | 1.3 | 1.5 |
| 63° | 1.3 | 1.3 | 1.3 | 1.3 | 1.5 | 1.5 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 63.5° | 1.0 | 1.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 64° | 1.0 | 1.0 | 1.0 | 1.3 | 1.3 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| 64.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 65° | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 65.5° | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.8 | 0.8 | 1.0 | 1.0 |
| 66° | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |



TEST NUMBER: P775954

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-----|-------|-----|-------|-----|--------|------|--------|------|--------|------|
| 67.5° | 0.5 | 0.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 68° | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.5 | 0.5 | 0.5 | 0.8 |
| 68.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 69° | 0.5 | 0.5 | 0.5 | 0.5 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 69.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 70° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 70.5° | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 71° | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 71.5° | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.5 |
| 72° | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 72.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 73° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 73.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 74° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 74.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 75° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 75.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 76° | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 76.5° | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 77° | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.3 | 0.3 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.3 |
| 78° | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 78.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 79° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 79.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 81° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 81.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 83° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 83.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 84° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 84.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 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: P775954
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

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: P775954

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 0° | 3475.4 | 3475.4 | 3475.4 | 3475.4 | 3475.4 | 3475.4 |
| 0.5° | 3476.9 | 3480.0 | 3472.5 | 3468.7 | 3466.1 | 3464.3 |
| 1° | 3479.0 | 3475.4 | 3465.6 | 3460.4 | 3457.3 | 3455.0 |
| 1.5° | 3476.2 | 3465.8 | 3456.5 | 3452.2 | 3449.6 | 3446.0 |
| 2° | 3467.4 | 3452.4 | 3445.2 | 3444.9 | 3443.1 | 3437.4 |
| 2.5° | 3452.7 | 3435.1 | 3433.6 | 3439.8 | 3438.7 | 3429.2 |
| 3° | 3434.6 | 3416.0 | 3422.2 | 3436.7 | 3436.1 | 3420.7 |
| 3.5° | 3413.9 | 3396.1 | 3410.6 | 3435.4 | 3435.4 | 3411.4 |
| 4° | 3393.5 | 3377.0 | 3398.4 | 3434.6 | 3435.4 | 3400.8 |
| 4.5° | 3373.1 | 3357.4 | 3384.2 | 3433.0 | 3433.8 | 3387.1 |
| 5° | 3354.3 | 3337.8 | 3368.2 | 3427.6 | 3428.4 | 3370.3 |
| 5.5° | 3337.0 | 3319.7 | 3348.9 | 3415.7 | 3417.8 | 3350.7 |
| 6° | 3321.8 | 3304.5 | 3328.7 | 3398.2 | 3401.5 | 3330.0 |
| 6.5° | 3309.9 | 3291.8 | 3308.1 | 3375.7 | 3379.9 | 3308.6 |
| 7° | 3300.1 | 3281.0 | 3287.9 | 3349.7 | 3354.0 | 3288.7 |
| 7.5° | 3290.8 | 3271.2 | 3267.8 | 3319.4 | 3320.2 | 3268.3 |
| 8° | 3280.2 | 3259.3 | 3246.4 | 3288.5 | 3286.7 | 3248.7 |
| 8.5° | 3264.2 | 3243.3 | 3225.0 | 3252.1 | 3246.6 | 3226.8 |
| 9° | 3242.2 | 3222.6 | 3200.9 | 3212.8 | 3206.6 | 3205.3 |
| 9.5° | 3212.6 | 3196.3 | 3174.9 | 3171.5 | 3164.3 | 3183.4 |
| 10° | 3176.4 | 3165.1 | 3146.7 | 3132.3 | 3125.8 | 3162.7 |
| 10.5° | 3134.1 | 3131.2 | 3116.5 | 3094.1 | 3090.4 | 3141.0 |
| 11° | 3088.6 | 3091.2 | 3083.5 | 3059.2 | 3057.4 | 3119.9 |
| 11.5° | 3041.6 | 3044.0 | 3046.8 | 3025.1 | 3026.4 | 3096.4 |
| 12° | 2990.8 | 2993.4 | 3007.0 | 2992.1 | 2998.8 | 3071.3 |
| 12.5° | 2938.1 | 2940.7 | 2964.2 | 2957.7 | 2971.4 | 3042.7 |
| 13° | 2886.2 | 2886.2 | 2919.5 | 2923.4 | 2944.3 | 3012.7 |
| 13.5° | 2832.3 | 2831.7 | 2871.2 | 2885.4 | 2914.6 | 2978.1 |
| 14° | 2776.7 | 2779.1 | 2821.2 | 2847.0 | 2883.6 | 2942.2 |
| 14.5° | 2725.1 | 2729.5 | 2772.1 | 2807.5 | 2849.8 | 2903.5 |
| 15° | 2675.8 | 2682.3 | 2723.6 | 2768.2 | 2815.5 | 2863.0 |
| 15.5° | 2628.8 | 2636.6 | 2676.8 | 2729.0 | 2780.9 | 2823.0 |
| 16° | 2582.6 | 2591.1 | 2630.1 | 2688.7 | 2744.0 | 2781.4 |
| 16.5° | 2536.4 | 2547.0 | 2583.6 | 2646.6 | 2705.2 | 2738.5 |
| 17° | 2489.4 | 2502.3 | 2538.4 | 2604.0 | 2663.9 | 2693.1 |
| 17.5° | 2442.7 | 2457.4 | 2492.0 | 2561.4 | 2622.1 | 2648.2 |
| 18° | 2397.5 | 2414.0 | 2447.0 | 2518.3 | 2579.5 | 2601.7 |
| 18.5° | 2355.1 | 2376.0 | 2405.0 | 2476.0 | 2536.9 | 2556.5 |
| 19° | 2318.5 | 2340.7 | 2368.8 | 2438.5 | 2498.2 | 2514.4 |
| 19.5° | 2285.4 | 2310.0 | 2336.8 | 2407.5 | 2465.4 | 2477.5 |
| 20° | 2253.4 | 2278.7 | 2305.0 | 2379.7 | 2436.7 | 2444.2 |
| 20.5° | 2218.3 | 2247.0 | 2273.0 | 2351.0 | 2408.1 | 2414.3 |
| 21° | 2179.3 | 2210.6 | 2238.2 | 2319.0 | 2377.1 | 2380.2 |



TEST NUMBER: P775954

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|--------|--------|--------|--------|--------|
| 22.5° | 2044.0 | 2082.8 | 2122.8 | 2203.6 | 2263.2 | 2259.9 |
| 23° | 1998.1 | 2036.5 | 2079.7 | 2159.2 | 2217.5 | 2212.1 |
| 23.5° | 1952.4 | 1990.6 | 2037.3 | 2113.5 | 2172.1 | 2165.6 |
| 24° | 1906.4 | 1943.3 | 1994.7 | 2068.8 | 2124.8 | 2120.7 |
| 24.5° | 1860.7 | 1897.6 | 1952.4 | 2024.7 | 2079.1 | 2077.8 |
| 25° | 1814.8 | 1852.7 | 1906.9 | 1980.8 | 2032.9 | 2036.5 |
| 25.5° | 1773.7 | 1810.1 | 1864.6 | 1936.6 | 1986.5 | 1997.0 |
| 26° | 1731.6 | 1767.0 | 1819.9 | 1890.1 | 1938.2 | 1955.5 |
| 26.5° | 1688.0 | 1723.9 | 1774.7 | 1842.1 | 1890.4 | 1912.9 |
| 27° | 1644.1 | 1680.0 | 1725.9 | 1791.8 | 1839.8 | 1868.2 |
| 27.5° | 1597.4 | 1633.3 | 1678.2 | 1739.1 | 1788.7 | 1821.5 |
| 28° | 1549.9 | 1585.8 | 1626.8 | 1682.8 | 1737.0 | 1771.4 |
| 28.5° | 1498.7 | 1536.4 | 1574.7 | 1628.6 | 1688.5 | 1718.7 |
| 29° | 1447.6 | 1486.9 | 1521.2 | 1574.4 | 1635.8 | 1663.2 |
| 29.5° | 1397.3 | 1434.5 | 1469.1 | 1521.5 | 1585.2 | 1609.5 |
| 30° | 1349.0 | 1384.1 | 1417.9 | 1469.1 | 1533.1 | 1555.0 |
| 30.5° | 1301.5 | 1333.3 | 1365.8 | 1419.0 | 1482.2 | 1501.6 |
| 31° | 1256.8 | 1283.2 | 1316.5 | 1368.4 | 1431.4 | 1449.9 |
| 31.5° | 1211.6 | 1234.1 | 1268.2 | 1319.3 | 1381.3 | 1399.9 |
| 32° | 1169.6 | 1185.6 | 1220.7 | 1271.0 | 1330.9 | 1351.6 |
| 32.5° | 1124.9 | 1139.6 | 1173.4 | 1221.2 | 1281.6 | 1304.1 |
| 33° | 1082.3 | 1094.2 | 1127.7 | 1173.7 | 1234.6 | 1258.4 |
| 33.5° | 1038.1 | 1050.0 | 1081.5 | 1127.2 | 1188.7 | 1212.2 |
| 34° | 993.7 | 1005.1 | 1035.6 | 1081.5 | 1142.7 | 1165.9 |
| 34.5° | 950.4 | 959.4 | 991.4 | 1037.9 | 1098.0 | 1119.0 |
| 35° | 908.3 | 915.0 | 946.2 | 993.5 | 1053.1 | 1072.5 |
| 35.5° | 866.5 | 872.7 | 904.9 | 951.9 | 1010.0 | 1026.5 |
| 36° | 826.4 | 830.1 | 863.6 | 923.0 | 965.1 | 980.8 |
| 36.5° | 785.9 | 787.7 | 822.6 | 879.9 | 916.3 | 934.1 |
| 37° | 748.5 | 745.4 | 781.3 | 836.3 | 873.9 | 891.0 |
| 37.5° | 708.7 | 705.9 | 740.2 | 792.9 | 831.9 | 847.9 |
| 38° | 670.5 | 668.9 | 702.0 | 749.5 | 789.5 | 804.8 |
| 38.5° | 633.1 | 632.5 | 665.9 | 710.8 | 747.4 | 761.6 |
| 39° | 595.6 | 599.0 | 631.0 | 673.3 | 708.5 | 718.5 |
| 39.5° | 559.5 | 564.1 | 596.9 | 636.7 | 669.5 | 678.5 |
| 40° | 525.1 | 532.9 | 563.6 | 600.3 | 632.8 | 641.1 |
| 40.5° | 492.6 | 501.4 | 532.9 | 566.2 | 596.9 | 603.6 |
| 41° | 463.2 | 473.2 | 502.9 | 533.1 | 562.3 | 566.5 |
| 41.5° | 435.8 | 445.6 | 474.5 | 502.2 | 529.0 | 531.3 |
| 42° | 410.3 | 419.5 | 449.0 | 472.5 | 496.0 | 499.8 |
| 42.5° | 387.3 | 396.1 | 422.6 | 444.6 | 465.2 | 468.9 |
| 43° | 365.6 | 372.8 | 397.6 | 416.2 | 435.0 | 438.9 |
| 43.5° | 345.4 | 351.1 | 373.6 | 389.3 | 406.1 | 409.0 |



TEST NUMBER: P775954

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 45° | 289.9 | 292.3 | 308.3 | 316.3 | 326.3 | 330.5 |
| 45.5° | 272.6 | 274.2 | 287.6 | 294.1 | 302.8 | 304.9 |
| 46° | 255.9 | 256.6 | 267.5 | 273.2 | 281.2 | 283.0 |
| 46.5° | 239.9 | 238.8 | 247.9 | 252.5 | 259.7 | 260.2 |
| 47° | 224.1 | 222.0 | 229.0 | 232.6 | 239.3 | 239.9 |
| 47.5° | 208.4 | 205.5 | 210.4 | 213.8 | 220.0 | 218.7 |
| 48° | 192.6 | 189.5 | 193.6 | 196.0 | 201.4 | 200.1 |
| 48.5° | 176.6 | 174.5 | 177.4 | 178.9 | 183.6 | 182.3 |
| 49° | 162.7 | 160.1 | 162.7 | 163.4 | 167.8 | 166.8 |
| 49.5° | 148.7 | 145.6 | 147.9 | 147.9 | 152.3 | 151.6 |
| 50° | 134.3 | 130.4 | 132.7 | 133.0 | 137.1 | 136.6 |
| 50.5° | 119.3 | 114.4 | 117.0 | 117.0 | 121.1 | 120.8 |
| 51° | 102.5 | 96.6 | 98.9 | 99.9 | 104.0 | 103.8 |
| 51.5° | 85.7 | 81.3 | 83.4 | 84.2 | 85.2 | 84.9 |
| 52° | 67.1 | 66.1 | 67.6 | 68.4 | 69.5 | 69.5 |
| 52.5° | 51.4 | 50.9 | 52.2 | 52.7 | 53.7 | 54.0 |
| 53° | 42.1 | 35.6 | 36.4 | 36.9 | 38.2 | 38.5 |
| 53.5° | 33.0 | 20.4 | 20.9 | 21.4 | 22.5 | 23.0 |
| 54° | 23.8 | 12.1 | 12.7 | 12.9 | 13.7 | 13.9 |
| 54.5° | 14.7 | 7.2 | 7.7 | 7.7 | 8.0 | 8.3 |
| 55° | 5.9 | 6.5 | 6.7 | 6.5 | 6.7 | 7.2 |
| 55.5° | 4.9 | 5.7 | 5.7 | 5.7 | 5.7 | 5.9 |
| 56° | 4.4 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 |
| 56.5° | 3.9 | 3.9 | 3.6 | 3.6 | 3.4 | 3.4 |
| 57° | 3.6 | 3.4 | 3.4 | 3.1 | 3.1 | 3.1 |
| 57.5° | 3.4 | 3.1 | 3.1 | 2.8 | 2.8 | 2.8 |
| 58° | 3.1 | 2.8 | 2.8 | 2.6 | 2.6 | 2.6 |
| 58.5° | 2.8 | 2.8 | 2.6 | 2.6 | 2.3 | 2.3 |
| 59° | 2.6 | 2.6 | 2.3 | 2.3 | 2.3 | 2.1 |
| 59.5° | 2.3 | 2.3 | 2.3 | 2.1 | 2.1 | 2.1 |
| 60° | 2.3 | 2.1 | 2.1 | 2.1 | 1.8 | 1.8 |
| 60.5° | 2.1 | 2.1 | 2.1 | 1.8 | 1.8 | 1.8 |
| 61° | 1.8 | 1.8 | 1.8 | 1.8 | 1.5 | 1.5 |
| 61.5° | 1.8 | 1.8 | 1.8 | 1.5 | 1.5 | 1.5 |
| 62° | 1.5 | 1.5 | 1.5 | 1.5 | 1.3 | 1.3 |
| 62.5° | 1.5 | 1.5 | 1.5 | 1.3 | 1.3 | 1.3 |
| 63° | 1.5 | 1.5 | 1.3 | 1.3 | 1.3 | 1.3 |
| 63.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.0 | 1.0 |
| 64° | 1.3 | 1.3 | 1.3 | 1.0 | 1.0 | 1.0 |
| 64.5° | 1.3 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 |
| 65° | 1.0 | 1.0 | 1.0 | 1.0 | 0.8 | 0.8 |
| 65.5° | 1.0 | 1.0 | 1.0 | 0.8 | 0.8 | 0.8 |
| 66° | 1.0 | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 |



TEST NUMBER: P775954

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRC-2500lm-5000K

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|------|--------|------|--------|------|
| 67.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.5 | 0.5 |
| 68° | 0.8 | 0.8 | 0.8 | 0.5 | 0.5 | 0.5 |
| 68.5° | 0.8 | 0.8 | 0.5 | 0.5 | 0.5 | 0.5 |
| 69° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 69.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 70° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 70.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 |
| 71° | 0.5 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 |
| 71.5° | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 |
| 72° | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.3 |
| 72.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 73° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 73.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 74° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 74.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 75° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 75.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 76° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 |
| 76.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 |
| 77° | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 |
| 77.5° | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 78° | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 78.5° | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 79° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 79.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 81° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 81.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 83° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 83.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 84° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 84.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 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: P775954

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRC-2500lm-5000K

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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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





| | | | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 21.5° | 2342.7 | 2351.0 | 2351.8 | 2353.1 | 2310.0 | 2253.4 | 2215.2 | 2177.5 | 2155.3 | 2113.2 | 2150.9 |
| 22° | 2301.4 | 2309.7 | 2312.3 | 2318.7 | 2275.6 | 2215.5 | 2171.3 | 2129.7 | 2109.9 | 2070.9 | 2107.8 |



| | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44° | 382.1 | 390.9 | 384.7 | 386.2 | 389.3 | 373.1 | 342.9 | 329.7 | 341.8 | 348.3 | 336.9 |
| 44.5° | 356.0 | 362.5 | 358.1 | 359.4 | 363.5 | 350.9 | 323.5 | 311.4 | 320.7 | 326.9 | 316.5 |



| | | | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 66.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 67° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |



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

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| | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|
| 21.5° | 2138.0 | 2171.3 | 2202.3 | 2283.9 | 2343.0 | 2342.7 |
| 22° | 2092.0 | 2127.9 | 2162.0 | 2246.2 | 2304.3 | 2301.4 |



| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 44° | 325.8 | 330.2 | 351.4 | 363.8 | 378.0 | 382.1 |
| 44.5° | 307.5 | 311.1 | 328.9 | 339.5 | 351.1 | 356.0 |

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| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| 66.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 67° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |

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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)