

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: CORELITE

Report Number: P938481

Luminaire Tested: SQ4-FB-150U-100D-B2750-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

**Test Information**

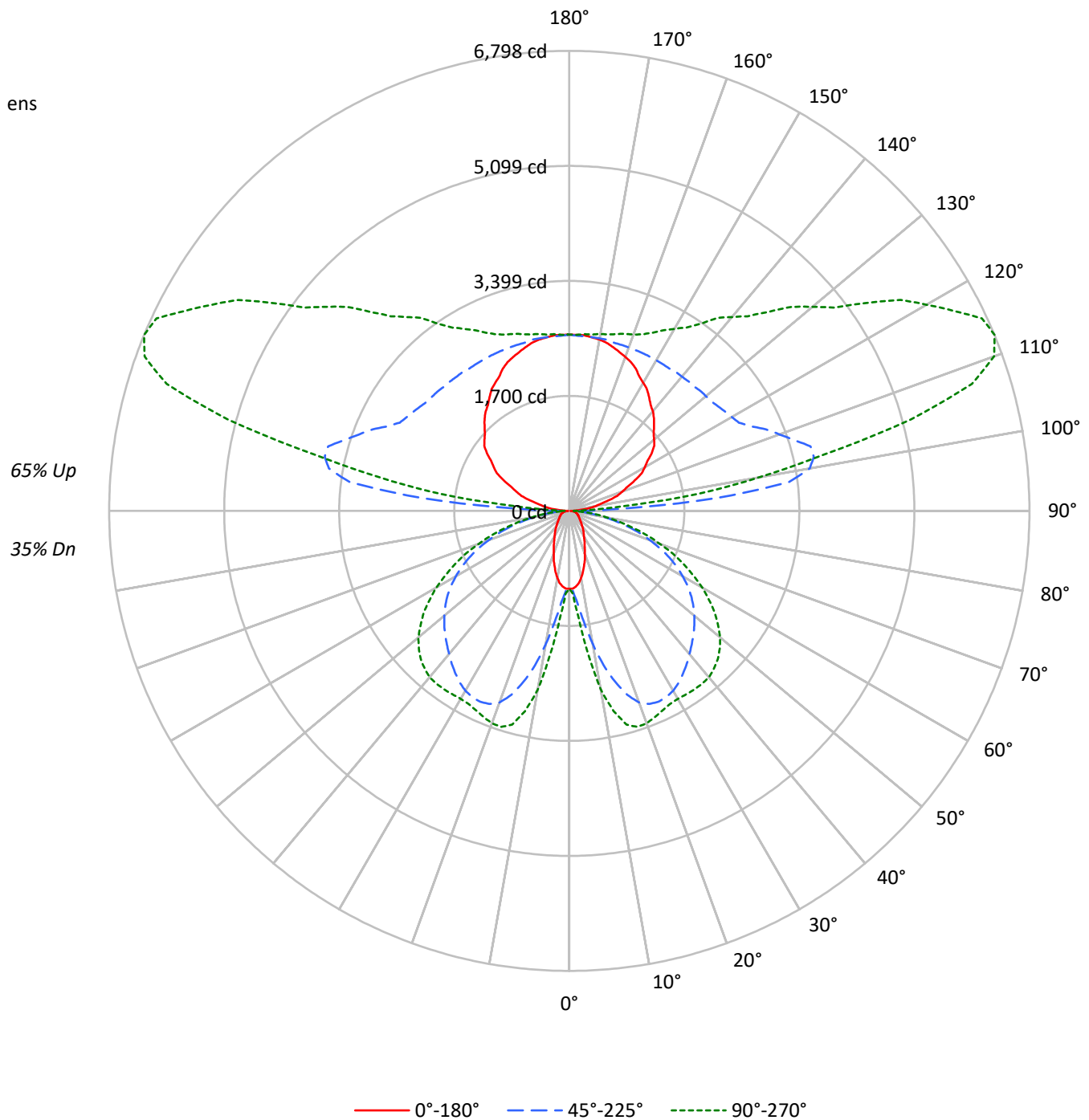
Test Method: LM-79-2019  
Report Number: P938481  
REPORT IS A COMBINATION OF REPORTS P933623 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-150U-100D-B2750-1D-UNV-STD-W-12-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25797.1 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 217.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P938481  
CATALOG NUMBER: SQ4-FB-150U-100D-B2750-1D-UNV-STD-W-12-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P938481

CATALOG NUMBER: SQ4-FB-150U-100D-B2750-1D-UNV-STD-W-12-5000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |    |    | 0  |    |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 42 | 42 | 42 | 35 |
| 1   | 94  | 90  | 86  | 82  | 85 | 81 | 78 | 75 | 65 | 63 | 60 | 50 | 49 | 47 | 36 | 35 | 35 | 36 | 35 | 35 | 28 |
| 2   | 85  | 78  | 72  | 66  | 77 | 70 | 65 | 61 | 56 | 53 | 49 | 43 | 41 | 39 | 32 | 30 | 29 | 32 | 30 | 29 | 23 |
| 3   | 77  | 68  | 61  | 55  | 69 | 61 | 55 | 50 | 49 | 45 | 41 | 38 | 35 | 32 | 28 | 26 | 24 | 28 | 26 | 24 | 19 |
| 4   | 71  | 60  | 52  | 46  | 63 | 54 | 47 | 42 | 43 | 38 | 34 | 34 | 30 | 27 | 24 | 22 | 20 | 24 | 22 | 20 | 16 |
| 5   | 64  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 39 | 33 | 29 | 30 | 26 | 23 | 22 | 19 | 17 | 22 | 19 | 17 | 14 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 36 | 30 | 34 | 29 | 25 | 27 | 23 | 20 | 19 | 17 | 15 | 19 | 17 | 15 | 12 |
| 7   | 54  | 42  | 34  | 29  | 49 | 38 | 31 | 26 | 31 | 26 | 22 | 24 | 20 | 17 | 18 | 15 | 13 | 18 | 15 | 13 | 10 |
| 8   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 16 | 13 | 11 | 16 | 13 | 11 | 9  |
| 9   | 47  | 35  | 27  | 22  | 42 | 31 | 25 | 20 | 26 | 20 | 17 | 20 | 16 | 14 | 15 | 12 | 10 | 15 | 12 | 10 | 8  |
| 10  | 43  | 31  | 24  | 20  | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 12 | 13 | 11 | 9  | 13 | 11 | 9  | 7  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°   |
|-----|------|------|-------|
| 0°  | 3561 | 3561 | 3561  |
| 5°  | 3480 | 4117 | 4787  |
| 10° | 3158 | 6003 | 7935  |
| 15° | 2685 | 7844 | 9582  |
| 20° | 2187 | 9093 | 9766  |
| 25° | 1825 | 9517 | 9567  |
| 30° | 1539 | 9580 | 9549  |
| 35° | 1362 | 9423 | 9796  |
| 40° | 1188 | 9219 | 10051 |
| 45° | 1076 | 9070 | 10091 |
| 50° | 988  | 8937 | 9924  |
| 55° | 947  | 8741 | 9484  |
| 60° | 971  | 8361 | 8789  |
| 65° | 1012 | 7781 | 7835  |
| 70° | 1080 | 6791 | 6619  |
| 75° | 1202 | 5542 | 5166  |
| 80° | 1322 | 3848 | 3480  |
| 85° | 1199 | 2045 | 1782  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10091 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 148.9   | 0.6       |
| 10°-20°   | 660.1   | 2.6       |
| 20°-30°   | 1154.5  | 4.5       |
| 30°-40°   | 1486.2  | 5.8       |
| 40°-50°   | 1660.1  | 6.4       |
| 50°-60°   | 1590.0  | 6.2       |
| 60°-70°   | 1260.1  | 4.9       |
| 70°-80°   | 740.9   | 2.9       |
| 80°-90°   | 215.8   | 0.8       |
| 90°-100°  | 1269.3  | 4.9       |
| 100°-110° | 3337.1  | 12.9      |
| 110°-120° | 3460.2  | 13.4      |
| 120°-130° | 2775.5  | 10.8      |
| 130°-140° | 2177.8  | 8.4       |
| 140°-150° | 1671.5  | 6.5       |
| 150°-160° | 1203.8  | 4.7       |
| 160°-170° | 736.5   | 2.9       |
| 170°-180° | 248.8   | 1.0       |
| 0°-30°    | 1963.5  | 7.6       |
| 0°-40°    | 3449.8  | 13.4      |
| 0°-60°    | 6699.8  | 26.0      |
| 0°-90°    | 8916.6  | 34.6      |
| 90°-120°  | 8066.6  | 31.3      |
| 90°-150°  | 14691.3 | 56.9      |
| 90°-180°  | 16880.0 | 65.4      |
| 0°-180°   | 25797.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1151 | 1151  | 1151 | 1151  | 1151 |      |
| 5°   | 1122 | 1203  | 1355 | 1533  | 1588 | 104  |
| 15°  | 840  | 1551  | 2614 | 3169  | 3269 | 234  |
| 25°  | 537  | 1758  | 3113 | 3250  | 3254 | 247  |
| 35°  | 363  | 1681  | 2932 | 3098  | 3221 | 227  |
| 45°  | 248  | 1340  | 2591 | 2969  | 3102 | 192  |
| 55°  | 178  | 851   | 2199 | 2554  | 2625 | 162  |
| 65°  | 141  | 452   | 1632 | 1836  | 1862 | 139  |
| 75°  | 104  | 278   | 896  | 985   | 988  | 109  |
| 85°  | 37   | 85    | 222  | 244   | 248  | 39   |
| 90°  | 18   | 49    | 133  | 66    | 66   | 17   |
| 95°  | 168  | 657   | 2186 | 1127  | 767  | 186  |
| 105° | 601  | 911   | 3689 | 5601  | 5225 | 637  |
| 115° | 1068 | 1297  | 2955 | 5895  | 6728 | 1055 |
| 125° | 1486 | 1666  | 2688 | 4542  | 5358 | 1319 |
| 135° | 1770 | 1949  | 2604 | 3666  | 4158 | 1370 |
| 145° | 2054 | 2184  | 2571 | 3128  | 3373 | 1286 |
| 155° | 2321 | 2386  | 2571 | 2822  | 2905 | 1066 |
| 165° | 2504 | 2538  | 2571 | 2672  | 2705 | 707  |
| 175° | 2604 | 2604  | 2588 | 2622  | 2622 | 247  |
| 180° | 2604 | 2604  | 2604 | 2604  | 2604 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 |
| 2.5°   | 1151.3 | 1151.3 | 1158.7 | 1162.5 | 1169.8 | 1173.6 | 1180.9 | 1188.3 | 1210.6 | 1214.3 | 1221.7 |
| 5°     | 1121.7 | 1136.5 | 1184.7 | 1203.2 | 1255.0 | 1325.3 | 1355.0 | 1403.1 | 1503.0 | 1532.6 | 1551.1 |
| 7.5°   | 1077.3 | 1110.6 | 1229.1 | 1258.7 | 1388.2 | 1573.3 | 1651.1 | 1754.7 | 1914.0 | 1991.7 | 2054.6 |
| 10°    | 1006.9 | 1077.3 | 1288.3 | 1358.6 | 1569.7 | 1851.0 | 1995.4 | 2139.8 | 2380.4 | 2487.7 | 2528.4 |
| 12.5°  | 929.2  | 1043.9 | 1351.2 | 1447.5 | 1751.1 | 2161.9 | 2335.9 | 2495.2 | 2769.1 | 2913.5 | 2935.7 |
| 15°    | 840.3  | 995.8  | 1410.4 | 1551.1 | 1943.6 | 2421.1 | 2613.6 | 2809.8 | 3065.3 | 3168.9 | 3194.8 |
| 17.5°  | 762.6  | 958.8  | 1466.0 | 1614.0 | 2091.6 | 2654.3 | 2850.6 | 3013.5 | 3220.7 | 3291.0 | 3309.6 |
| 20°    | 666.3  | 899.6  | 1503.0 | 1695.5 | 2247.1 | 2824.6 | 3013.5 | 3139.3 | 3279.9 | 3324.4 | 3331.8 |
| 22.5°  | 596.0  | 836.7  | 1525.2 | 1725.1 | 2350.8 | 2928.3 | 3087.4 | 3187.5 | 3283.7 | 3298.5 | 3302.2 |
| 25°    | 536.8  | 766.3  | 1521.5 | 1758.4 | 2439.6 | 2991.2 | 3113.4 | 3187.5 | 3242.9 | 3250.3 | 3250.3 |
| 27.5°  | 481.3  | 688.5  | 1506.7 | 1765.8 | 2506.3 | 3006.0 | 3102.3 | 3154.1 | 3180.0 | 3194.8 | 3194.8 |
| 30°    | 433.1  | 614.6  | 1469.6 | 1751.1 | 2535.9 | 2991.2 | 3068.9 | 3094.9 | 3120.8 | 3143.0 | 3154.1 |
| 32.5°  | 396.1  | 544.1  | 1414.2 | 1721.5 | 2539.5 | 2954.2 | 3009.7 | 3024.6 | 3061.6 | 3113.4 | 3131.9 |
| 35°    | 362.8  | 473.8  | 1351.2 | 1680.7 | 2517.3 | 2894.9 | 2932.0 | 2946.8 | 3020.8 | 3098.5 | 3124.5 |
| 37.5°  | 329.5  | 422.1  | 1269.8 | 1610.4 | 2484.1 | 2824.6 | 2850.6 | 2876.4 | 2991.2 | 3083.8 | 3113.4 |
| 40°    | 296.2  | 377.6  | 1173.6 | 1532.6 | 2432.2 | 2739.5 | 2761.7 | 2802.4 | 2954.2 | 3061.6 | 3091.2 |
| 42.5°  | 270.2  | 340.6  | 1069.9 | 1451.2 | 2365.5 | 2643.2 | 2676.6 | 2735.8 | 2909.8 | 3024.6 | 3057.8 |
| 45°    | 248.1  | 303.6  | 958.8  | 1340.1 | 2280.5 | 2543.3 | 2591.4 | 2672.8 | 2857.9 | 2969.0 | 2998.6 |
| 47.5°  | 225.8  | 277.7  | 844.1  | 1225.4 | 2187.9 | 2443.3 | 2506.3 | 2598.8 | 2787.6 | 2894.9 | 2920.9 |
| 50°    | 207.3  | 251.7  | 729.3  | 1103.2 | 2088.0 | 2335.9 | 2410.0 | 2506.3 | 2698.8 | 2798.7 | 2832.1 |
| 52.5°  | 192.5  | 229.5  | 622.0  | 981.1  | 1973.2 | 2224.9 | 2310.1 | 2410.0 | 2591.4 | 2687.7 | 2709.9 |
| 55°    | 177.7  | 211.0  | 529.4  | 851.4  | 1854.7 | 2106.5 | 2199.0 | 2295.2 | 2473.0 | 2554.4 | 2569.2 |
| 57.5°  | 170.3  | 196.2  | 451.7  | 729.3  | 1728.8 | 1973.2 | 2076.8 | 2165.7 | 2332.3 | 2395.1 | 2410.0 |
| 60°    | 159.2  | 185.1  | 392.4  | 625.6  | 1591.8 | 1847.3 | 1936.2 | 2025.0 | 2165.7 | 2217.5 | 2228.6 |
| 62.5°  | 148.0  | 177.7  | 348.0  | 525.7  | 1451.2 | 1699.2 | 1788.0 | 1869.5 | 1988.0 | 2025.0 | 2039.8 |
| 65°    | 140.7  | 170.3  | 314.7  | 451.7  | 1306.9 | 1543.7 | 1632.5 | 1703.0 | 1799.2 | 1836.2 | 1843.6 |
| 67.5°  | 133.3  | 162.9  | 288.8  | 388.7  | 1162.5 | 1388.2 | 1454.9 | 1521.5 | 1595.6 | 1632.5 | 1636.3 |
| 70°    | 122.2  | 155.5  | 266.6  | 344.3  | 1014.3 | 1210.6 | 1266.1 | 1336.5 | 1395.7 | 1414.2 | 1425.3 |
| 72.5°  | 114.8  | 144.4  | 251.7  | 310.9  | 862.5  | 1040.3 | 1092.1 | 1132.8 | 1184.7 | 1203.2 | 1203.2 |
| 75°    | 103.7  | 129.5  | 237.0  | 277.7  | 707.0  | 851.4  | 895.9  | 936.6  | 977.3  | 984.7  | 973.6  |
| 77.5°  | 92.6   | 114.8  | 203.6  | 233.2  | 551.6  | 673.8  | 710.8  | 733.0  | 766.3  | 773.7  | 777.5  |
| 80°    | 77.7   | 99.9   | 159.2  | 181.4  | 399.8  | 496.0  | 522.0  | 540.5  | 570.1  | 570.1  | 577.5  |
| 82.5°  | 59.2   | 77.7   | 114.8  | 129.5  | 270.2  | 340.6  | 362.8  | 373.9  | 392.4  | 392.4  | 392.4  |
| 85°    | 37.0   | 48.1   | 74.1   | 85.2   | 162.9  | 207.3  | 222.1  | 225.8  | 240.6  | 244.3  | 244.3  |
| 87.5°  | 18.5   | 25.9   | 48.1   | 51.8   | 85.2   | 107.3  | 107.3  | 114.8  | 114.8  | 111.1  | 107.3  |
| 90°    | 17.5   | 31.5   | 45.5   | 48.9   | 76.9   | 114.1  | 132.8  | 118.1  | 88.5   | 66.4   | 66.4   |
| 92.5°  | 69.9   | 188.7  | 307.6  | 337.3  | 474.2  | 656.7  | 747.9  | 655.5  | 470.6  | 332.0  | 318.9  |
| 95°    | 167.7  | 385.2  | 602.7  | 657.1  | 1166.8 | 1846.5 | 2186.3 | 1950.9 | 1480.3 | 1127.2 | 1087.3 |
| 97.5°  | 290.1  | 481.9  | 673.8  | 721.8  | 1571.7 | 2705.0 | 3271.5 | 3122.8 | 2825.4 | 2602.2 | 2526.1 |
| 100°   | 384.4  | 558.4  | 732.4  | 776.0  | 1719.1 | 2976.6 | 3605.3 | 3616.2 | 3637.9 | 3654.3 | 3563.6 |
| 102.5° | 464.9  | 627.2  | 789.5  | 830.1  | 1786.6 | 3062.0 | 3699.8 | 3889.3 | 4268.3 | 4552.6 | 4474.9 |
| 105°   | 601.2  | 738.7  | 876.2  | 910.6  | 1836.8 | 3071.7 | 3689.2 | 4114.1 | 4963.8 | 5601.1 | 5559.4 |
| 107.5° | 741.0  | 869.2  | 997.3  | 1029.4 | 1846.1 | 2935.0 | 3479.5 | 4072.1 | 5257.4 | 6146.4 | 6156.5 |
| 110°   | 835.4  | 951.1  | 1066.8 | 1095.8 | 1832.1 | 2813.9 | 3304.8 | 3967.4 | 5292.4 | 6286.2 | 6329.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 928.0  | 1038.3 | 1148.6 | 1176.2 | 1832.7 | 2708.0 | 3145.7 | 3823.8 | 5180.0 | 6197.1 | 6263.9 |
| 115°   | 1067.8 | 1169.6 | 1271.4 | 1296.8 | 1849.6 | 2586.7 | 2955.3 | 3608.5 | 4914.9 | 5894.8 | 5987.4 |
| 117.5° | 1205.9 | 1298.3 | 1390.7 | 1413.8 | 1883.9 | 2510.7 | 2824.1 | 3413.7 | 4592.8 | 5477.1 | 5579.8 |
| 120°   | 1286.2 | 1373.3 | 1460.2 | 1482.0 | 1911.9 | 2485.1 | 2771.7 | 3310.4 | 4387.7 | 5195.7 | 5295.5 |
| 122.5° | 1364.9 | 1452.7 | 1540.4 | 1562.4 | 1952.2 | 2471.7 | 2731.6 | 3216.6 | 4186.7 | 4914.3 | 5012.8 |
| 125°   | 1485.5 | 1565.5 | 1645.5 | 1665.5 | 2006.3 | 2460.7 | 2687.9 | 3099.9 | 3924.0 | 4542.0 | 4632.7 |
| 127.5° | 1583.3 | 1664.1 | 1744.9 | 1765.1 | 2060.4 | 2454.3 | 2651.2 | 3005.0 | 3712.6 | 4243.3 | 4319.8 |
| 130°   | 1635.8 | 1722.8 | 1809.7 | 1831.5 | 2100.0 | 2458.1 | 2637.1 | 2952.1 | 3582.1 | 4054.5 | 4125.2 |
| 132.5° | 1690.0 | 1776.9 | 1863.9 | 1885.7 | 2132.0 | 2460.6 | 2624.9 | 2906.9 | 3470.8 | 3893.8 | 3957.1 |
| 135°   | 1770.3 | 1849.5 | 1928.8 | 1948.6 | 2167.1 | 2458.4 | 2604.0 | 2840.1 | 3312.3 | 3666.5 | 3721.1 |
| 137.5° | 1852.5 | 1931.0 | 2009.4 | 2029.0 | 2219.5 | 2473.4 | 2600.4 | 2800.0 | 3199.3 | 3498.8 | 3543.4 |
| 140°   | 1920.7 | 1992.9 | 2065.2 | 2083.2 | 2251.5 | 2475.9 | 2588.2 | 2760.6 | 3105.6 | 3364.2 | 3405.9 |
| 142.5° | 1973.1 | 2039.9 | 2106.6 | 2123.4 | 2278.3 | 2484.9 | 2588.2 | 2739.7 | 3042.6 | 3269.8 | 3305.8 |
| 145°   | 2053.5 | 2111.8 | 2170.0 | 2184.5 | 2313.2 | 2484.9 | 2570.7 | 2694.6 | 2942.4 | 3128.2 | 3155.4 |
| 147.5° | 2133.8 | 2190.5 | 2247.2 | 2261.4 | 2364.5 | 2502.0 | 2570.7 | 2668.3 | 2863.2 | 3009.4 | 3032.0 |
| 150°   | 2186.3 | 2237.6 | 2288.9 | 2301.7 | 2391.3 | 2511.0 | 2570.7 | 2653.1 | 2817.8 | 2941.3 | 2959.5 |
| 152.5° | 2240.5 | 2279.3 | 2318.1 | 2327.8 | 2408.8 | 2516.8 | 2570.7 | 2641.1 | 2781.6 | 2887.1 | 2900.9 |
| 155°   | 2320.9 | 2349.7 | 2378.3 | 2385.5 | 2447.3 | 2529.6 | 2570.7 | 2626.7 | 2738.6 | 2822.5 | 2831.6 |
| 157.5° | 2380.3 | 2408.2 | 2436.2 | 2443.2 | 2485.7 | 2542.3 | 2570.7 | 2614.3 | 2701.2 | 2766.5 | 2773.0 |
| 160°   | 2420.5 | 2442.2 | 2464.0 | 2469.4 | 2503.2 | 2548.2 | 2570.7 | 2608.0 | 2682.5 | 2738.5 | 2742.2 |
| 162.5° | 2460.6 | 2477.0 | 2493.2 | 2497.3 | 2521.8 | 2554.4 | 2570.7 | 2602.2 | 2665.2 | 2712.3 | 2715.8 |
| 165°   | 2504.3 | 2519.1 | 2533.8 | 2537.6 | 2548.6 | 2563.4 | 2570.7 | 2593.3 | 2638.3 | 2672.1 | 2675.8 |
| 167.5° | 2544.6 | 2551.6 | 2558.5 | 2560.3 | 2569.6 | 2582.0 | 2588.2 | 2603.0 | 2632.5 | 2654.6 | 2656.2 |
| 170°   | 2570.7 | 2577.7 | 2584.8 | 2586.5 | 2587.1 | 2587.8 | 2588.2 | 2603.0 | 2632.5 | 2654.6 | 2654.6 |
| 172.5° | 2584.8 | 2586.2 | 2587.8 | 2588.2 | 2588.2 | 2588.2 | 2588.2 | 2599.9 | 2623.2 | 2640.7 | 2639.3 |
| 175°   | 2604.0 | 2604.0 | 2604.0 | 2604.0 | 2598.8 | 2591.8 | 2588.2 | 2595.6 | 2610.3 | 2621.5 | 2621.5 |
| 177.5° | 2604.0 | 2604.0 | 2604.0 | 2604.0 | 2599.9 | 2594.5 | 2591.8 | 2597.5 | 2609.2 | 2617.9 | 2616.3 |
| 180°   | 2604.0 | 2604.0 | 2604.0 | 2604.0 | 2604.0 | 2604.0 | 2604.0 | 2604.0 | 2604.0 | 2604.0 | 2604.0 |



TEST NUMBER: P938481

CATALOG NUMBER: SQ4-FB-150U-100D-B2750-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 1151.3 | 1151.3 |
| 2.5°   | 1229.1 | 1221.7 |
| 5°     | 1580.8 | 1588.2 |
| 7.5°   | 2128.7 | 2124.9 |
| 10°    | 2647.0 | 2680.2 |
| 12.5°  | 3024.6 | 3032.0 |
| 15°    | 3254.1 | 3268.9 |
| 17.5°  | 3342.9 | 3346.6 |
| 20°    | 3346.6 | 3339.2 |
| 22.5°  | 3305.9 | 3298.5 |
| 25°    | 3257.8 | 3254.1 |
| 27.5°  | 3213.3 | 3217.1 |
| 30°    | 3194.8 | 3206.0 |
| 32.5°  | 3194.8 | 3213.3 |
| 35°    | 3202.2 | 3220.7 |
| 37.5°  | 3198.5 | 3220.7 |
| 40°    | 3183.7 | 3209.6 |
| 42.5°  | 3143.0 | 3161.5 |
| 45°    | 3080.1 | 3102.3 |
| 47.5°  | 2998.6 | 3013.5 |
| 50°    | 2894.9 | 2909.8 |
| 52.5°  | 2765.4 | 2769.1 |
| 55°    | 2609.9 | 2624.7 |
| 57.5°  | 2443.3 | 2447.0 |
| 60°    | 2258.2 | 2269.3 |
| 62.5°  | 2062.0 | 2062.0 |
| 65°    | 1854.7 | 1862.1 |
| 67.5°  | 1640.0 | 1658.5 |
| 70°    | 1421.5 | 1425.3 |
| 72.5°  | 1206.8 | 1206.8 |
| 75°    | 984.7  | 988.5  |
| 77.5°  | 773.7  | 773.7  |
| 80°    | 573.8  | 577.5  |
| 82.5°  | 396.1  | 403.5  |
| 85°    | 248.1  | 248.1  |
| 87.5°  | 114.8  | 103.7  |
| 90°    | 66.4   | 66.4   |
| 92.5°  | 266.0  | 213.2  |
| 95°    | 927.2  | 767.2  |
| 97.5°  | 2221.6 | 1917.1 |
| 100°   | 3200.9 | 2838.1 |
| 102.5° | 4164.2 | 3853.5 |
| 105°   | 5392.4 | 5225.4 |
| 107.5° | 6196.9 | 6237.3 |
| 110°   | 6503.7 | 6677.7 |





TEST NUMBER: P938481

CATALOG NUMBER: SQ4-FB-150U-100D-B2750-1D-UNV-STD-W-12-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 6531.1 | 6798.3 |
| 115°   | 6357.8 | 6728.3 |
| 117.5° | 5990.7 | 6401.5 |
| 120°   | 5694.7 | 6094.0 |
| 122.5° | 5406.6 | 5800.4 |
| 125°   | 4995.5 | 5358.3 |
| 127.5° | 4625.8 | 4931.8 |
| 130°   | 4407.9 | 4690.6 |
| 132.5° | 4210.2 | 4463.4 |
| 135°   | 3939.3 | 4157.6 |
| 137.5° | 3722.1 | 3900.7 |
| 140°   | 3572.9 | 3739.9 |
| 142.5° | 3449.4 | 3593.1 |
| 145°   | 3264.2 | 3373.0 |
| 147.5° | 3122.1 | 3212.1 |
| 150°   | 3032.5 | 3105.6 |
| 152.5° | 2956.0 | 3011.1 |
| 155°   | 2868.0 | 2904.6 |
| 157.5° | 2798.5 | 2824.1 |
| 160°   | 2757.0 | 2771.7 |
| 162.5° | 2729.8 | 2743.8 |
| 165°   | 2690.6 | 2705.3 |
| 167.5° | 2662.4 | 2668.6 |
| 170°   | 2654.6 | 2654.6 |
| 172.5° | 2633.9 | 2628.5 |
| 175°   | 2621.5 | 2621.5 |
| 177.5° | 2610.2 | 2604.0 |
| 180°   | 2604.0 | 2604.0 |



TEST NUMBER: P938481  
 CATALOG NUMBER: SQ4-FB-150U-100D-B2750-1D-UNV-STD-W-12-5000K

**CIE UGR TABLE:**

| Reflectances:   |      |                  |       |       |       |       |                |       |       |       |       |
|-----------------|------|------------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|
| Ceiling         |      | 0.7              | 0.7   | 0.5   | 0.5   | 0.3   | 0.7            | 0.7   | 0.5   | 0.5   | 0.3   |
| Wall            |      | 0.5              | 0.3   | 0.5   | 0.3   | 0.3   | 0.5            | 0.3   | 0.5   | 0.3   | 0.3   |
| Reference plane |      | 0.2              | 0.2   | 0.2   | 0.2   | 0.2   | 0.2            | 0.2   | 0.2   | 0.2   | 0.2   |
| Room dimensions |      | Viewed crosswise |       |       |       |       | Viewed endwise |       |       |       |       |
| X=2H            | Y=2H | 3.82             | 4.58  | 4.89  | 5.66  | 7.13  | 17.01          | 17.77 | 18.08 | 18.85 | 20.32 |
|                 | 3H   | 4.51             | 5.20  | 5.59  | 6.28  | 7.77  | 18.84          | 19.53 | 19.93 | 20.61 | 22.11 |
|                 | 4H   | 4.81             | 5.46  | 5.90  | 6.54  | 8.04  | 19.49          | 20.14 | 20.58 | 21.23 | 22.72 |
|                 | 6H   | 5.05             | 5.65  | 6.15  | 6.74  | 8.25  | 19.92          | 20.52 | 21.02 | 21.61 | 23.12 |
|                 | 8H   | 5.12             | 5.69  | 6.22  | 6.79  | 8.30  | 20.04          | 20.61 | 21.14 | 21.71 | 23.22 |
|                 | 12H  | 5.13             | 5.67  | 6.24  | 6.77  | 8.30  | 20.10          | 20.65 | 21.22 | 21.75 | 23.27 |
| 4H              | 2H   | 11.03            | 11.68 | 12.13 | 12.76 | 14.26 | 17.27          | 17.92 | 18.37 | 19.01 | 20.50 |
|                 | 3H   | 12.58            | 13.13 | 13.69 | 14.24 | 15.75 | 19.31          | 19.85 | 20.42 | 20.97 | 22.48 |
|                 | 4H   | 12.67            | 13.17 | 13.79 | 14.28 | 15.81 | 20.08          | 20.57 | 21.19 | 21.68 | 23.21 |
|                 | 6H   | 12.68            | 13.11 | 13.80 | 14.23 | 15.76 | 20.61          | 21.04 | 21.73 | 22.17 | 23.69 |
|                 | 8H   | 12.65            | 13.05 | 13.77 | 14.17 | 15.71 | 20.78          | 21.18 | 21.89 | 22.30 | 23.84 |
|                 | 12H  | 12.60            | 12.97 | 13.74 | 14.10 | 15.64 | 20.87          | 21.23 | 22.00 | 22.36 | 23.91 |
| 8H              | 4H   | 14.11            | 14.51 | 15.23 | 15.63 | 17.17 | 20.13          | 20.53 | 21.25 | 21.65 | 23.19 |
|                 | 6H   | 14.35            | 14.68 | 15.49 | 15.84 | 17.38 | 20.76          | 21.09 | 21.90 | 22.25 | 23.79 |
|                 | 8H   | 14.37            | 14.66 | 15.51 | 15.80 | 17.36 | 20.98          | 21.27 | 22.12 | 22.41 | 23.97 |
|                 | 12H  | 14.33            | 14.59 | 15.48 | 15.72 | 17.32 | 21.12          | 21.38 | 22.27 | 22.51 | 24.11 |
| 12H             | 4H   | 14.25            | 14.62 | 15.39 | 15.75 | 17.29 | 20.07          | 20.44 | 21.21 | 21.57 | 23.11 |
|                 | 6H   | 14.61            | 14.90 | 15.76 | 16.04 | 17.60 | 20.74          | 21.03 | 21.88 | 22.17 | 23.73 |
|                 | 8H   | 14.67            | 14.93 | 15.83 | 16.07 | 17.66 | 20.97          | 21.22 | 22.12 | 22.36 | 23.95 |