

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: P937491

Luminaire Tested: SQ4-FB-100U-050D-B2750-1D-UNV-W2A-W-6-5000K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937491  
REPORT IS A COMBINATION OF REPORTS P933573 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-100U-050D-B2750-1D-UNV-W2A-W-6-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

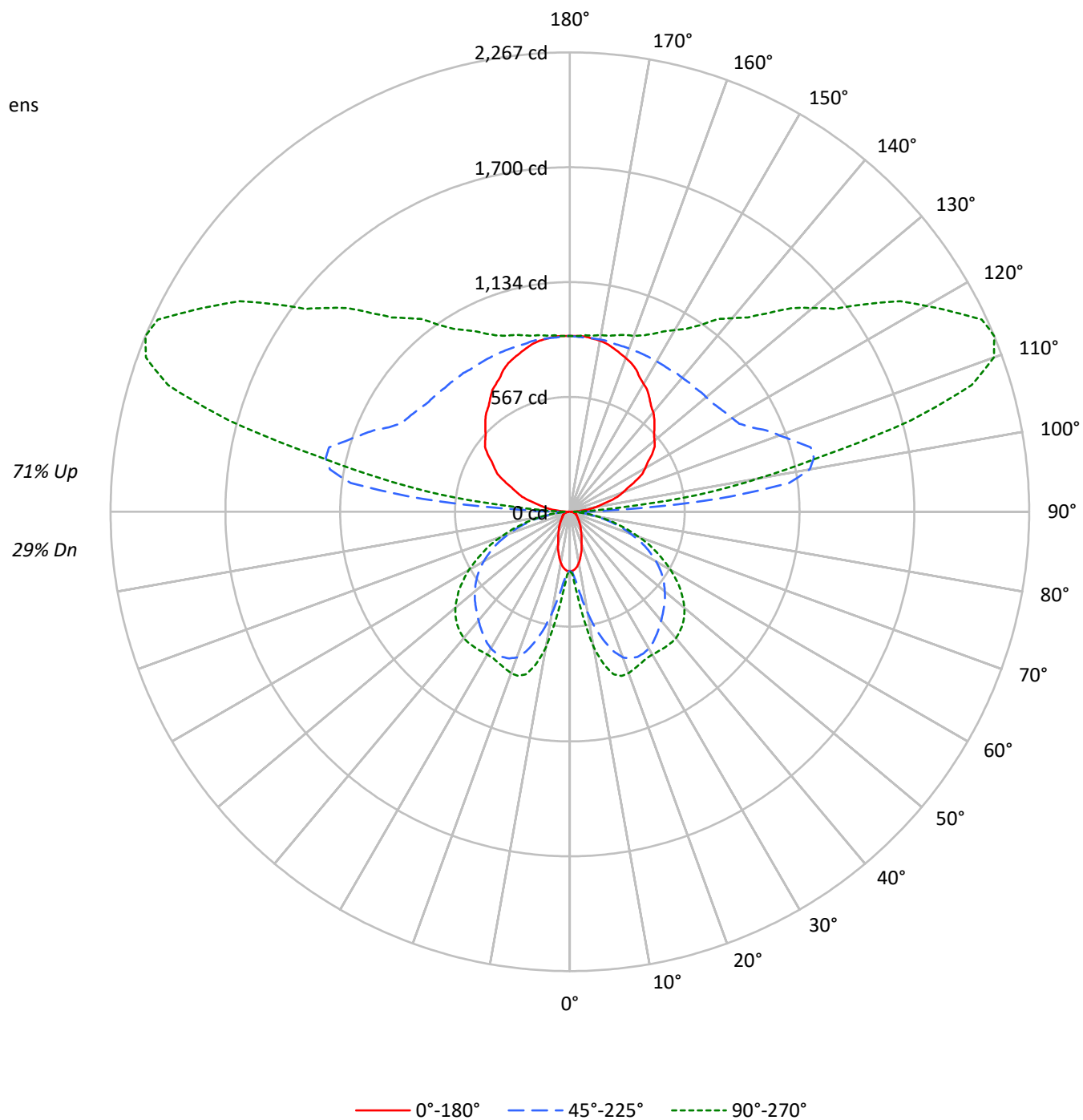
Lumens per Lamp: N/A  
Luminaire Lumens: 7892.3 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 61.8  
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: P937491

CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-W2A-W-6-5000K

### Luminous Intensity Polar Plot



TEST NUMBER: P937491

CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-W2A-W-6-5000K

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

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 37 | 37 | 37 |
| 1   | 93  | 88  | 84  | 81  | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 46 | 45 | 44 | 32 | 31 | 30 |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 59 | 54 | 50 | 47 | 40 | 38 | 36 | 28 | 26 | 25 |
| 3   | 76  | 67  | 60  | 54  | 68 | 60 | 54 | 49 | 47 | 43 | 39 | 35 | 32 | 30 | 24 | 22 | 21 |
| 4   | 70  | 59  | 51  | 45  | 62 | 53 | 46 | 41 | 42 | 37 | 33 | 31 | 28 | 25 | 21 | 19 | 18 |
| 5   | 64  | 52  | 44  | 38  | 57 | 47 | 40 | 35 | 37 | 32 | 28 | 28 | 24 | 21 | 19 | 17 | 15 |
| 6   | 58  | 47  | 39  | 33  | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 25 | 21 | 18 | 17 | 15 | 13 |
| 7   | 54  | 42  | 34  | 28  | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 22 | 19 | 16 | 15 | 13 | 11 |
| 8   | 50  | 38  | 30  | 25  | 44 | 34 | 27 | 23 | 27 | 22 | 18 | 20 | 17 | 14 | 14 | 12 | 10 |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 24 | 20 | 24 | 20 | 16 | 18 | 15 | 12 | 13 | 11 | 9  |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 18 | 14 | 17 | 14 | 11 | 12 | 10 | 8  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1808 | 1808 | 1808 |
| 5°  | 1765 | 2088 | 2429 |
| 10° | 1600 | 3044 | 4027 |
| 15° | 1359 | 3975 | 4864 |
| 20° | 1107 | 4606 | 4957 |
| 25° | 923  | 4819 | 4856 |
| 30° | 778  | 4848 | 4847 |
| 35° | 688  | 4766 | 4972 |
| 40° | 599  | 4660 | 5101 |
| 45° | 542  | 4582 | 5122 |
| 50° | 496  | 4512 | 5037 |
| 55° | 475  | 4410 | 4814 |
| 60° | 486  | 4214 | 4461 |
| 65° | 505  | 3917 | 3976 |
| 70° | 536  | 3414 | 3359 |
| 75° | 592  | 2780 | 2622 |
| 80° | 641  | 1925 | 1766 |
| 85° | 560  | 1021 | 905  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5122 cd/sqm

TEST NUMBER: P937491

CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-W2A-W-6-5000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.8   | 0.5       |
| 10°-20°   | 167.5  | 2.1       |
| 20°-30°   | 293.0  | 3.7       |
| 30°-40°   | 377.2  | 4.8       |
| 40°-50°   | 421.3  | 5.3       |
| 50°-60°   | 403.5  | 5.1       |
| 60°-70°   | 319.8  | 4.1       |
| 70°-80°   | 188.0  | 2.4       |
| 80°-90°   | 55.6   | 0.7       |
| 90°-100°  | 423.2  | 5.4       |
| 100°-110° | 1112.7 | 14.1      |
| 110°-120° | 1153.8 | 14.6      |
| 120°-130° | 925.5  | 11.7      |
| 130°-140° | 726.2  | 9.2       |
| 140°-150° | 557.4  | 7.1       |
| 150°-160° | 401.4  | 5.1       |
| 160°-170° | 245.6  | 3.1       |
| 170°-180° | 83.0   | 1.1       |
| <hr/>     |        |           |
| 0°-30°    | 498.3  | 6.3       |
| 0°-40°    | 875.5  | 11.1      |
| 0°-60°    | 1700.2 | 21.5      |
| 0°-90°    | 2263.6 | 28.7      |
| 90°-120°  | 2689.7 | 34.1      |
| 90°-150°  | 4898.7 | 62.1      |
| 90°-180°  | 5629.0 | 71.3      |
| 0°-180°   | 7892.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 292 | 292   | 292  | 292   | 292  |      |
| 5°   | 285 | 305   | 344  | 389   | 403  | 26   |
| 15°  | 213 | 394   | 663  | 804   | 830  | 59   |
| 25°  | 136 | 446   | 790  | 825   | 826  | 63   |
| 35°  | 92  | 427   | 744  | 786   | 817  | 57   |
| 45°  | 63  | 340   | 658  | 754   | 787  | 49   |
| 55°  | 45  | 216   | 558  | 648   | 666  | 41   |
| 65°  | 36  | 115   | 414  | 466   | 472  | 35   |
| 75°  | 26  | 70    | 227  | 250   | 251  | 28   |
| 85°  | 9   | 22    | 56   | 62    | 63   | 10   |
| 90°  | 6   | 16    | 44   | 22    | 22   | 5    |
| 95°  | 56  | 219   | 729  | 376   | 256  | 62   |
| 105° | 200 | 304   | 1230 | 1868  | 1742 | 212  |
| 115° | 356 | 432   | 985  | 1966  | 2244 | 352  |
| 125° | 495 | 555   | 896  | 1515  | 1787 | 440  |
| 135° | 590 | 650   | 868  | 1223  | 1386 | 457  |
| 145° | 685 | 728   | 857  | 1043  | 1125 | 429  |
| 155° | 774 | 795   | 857  | 941   | 968  | 356  |
| 165° | 835 | 846   | 857  | 891   | 902  | 236  |
| 175° | 868 | 868   | 863  | 874   | 874  | 82   |
| 180° | 868 | 868   | 868  | 868   | 868  |      |

TEST NUMBER: P937491

CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-W2A-W-6-5000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 292.2 | 292.2 | 292.2 | 292.2 | 292.2 | 292.2  | 292.2  | 292.2  | 292.2  | 292.2  | 292.2  |
| 2.5°   | 292.2 | 292.2 | 294.0 | 295.0 | 296.9 | 297.9  | 299.7  | 301.6  | 307.2  | 308.1  | 310.0  |
| 5°     | 284.7 | 288.4 | 300.7 | 305.3 | 318.5 | 336.3  | 343.8  | 356.0  | 381.4  | 388.9  | 393.7  |
| 7.5°   | 273.4 | 281.9 | 311.9 | 319.4 | 352.3 | 399.3  | 419.0  | 445.3  | 485.7  | 505.5  | 521.5  |
| 10°    | 255.5 | 273.4 | 326.9 | 344.8 | 398.4 | 469.7  | 506.4  | 543.0  | 604.1  | 631.3  | 641.7  |
| 12.5°  | 235.8 | 265.0 | 342.9 | 367.3 | 444.4 | 548.6  | 592.8  | 633.3  | 702.7  | 739.4  | 745.0  |
| 15°    | 213.2 | 252.7 | 357.9 | 393.7 | 493.2 | 614.4  | 663.2  | 713.1  | 777.9  | 804.2  | 810.8  |
| 17.5°  | 193.5 | 243.3 | 372.0 | 409.7 | 530.8 | 673.6  | 723.4  | 764.8  | 817.3  | 835.2  | 839.9  |
| 20°    | 169.1 | 228.3 | 381.4 | 430.3 | 570.3 | 716.8  | 764.8  | 796.7  | 832.4  | 843.7  | 845.6  |
| 22.5°  | 151.2 | 212.3 | 387.0 | 437.8 | 596.5 | 743.1  | 783.5  | 808.8  | 833.3  | 837.1  | 838.0  |
| 25°    | 136.3 | 194.5 | 386.1 | 446.3 | 619.1 | 759.1  | 790.1  | 808.8  | 822.9  | 824.8  | 824.8  |
| 27.5°  | 122.2 | 174.8 | 382.4 | 448.1 | 636.1 | 762.9  | 787.3  | 800.4  | 807.0  | 810.8  | 810.8  |
| 30°    | 109.9 | 156.0 | 372.9 | 444.4 | 643.5 | 759.1  | 778.9  | 785.4  | 791.9  | 797.6  | 800.4  |
| 32.5°  | 100.5 | 138.1 | 358.8 | 436.8 | 644.5 | 749.7  | 763.8  | 767.6  | 776.9  | 790.1  | 794.8  |
| 35°    | 92.1  | 120.3 | 342.9 | 426.6 | 638.9 | 734.7  | 744.0  | 747.9  | 766.6  | 786.3  | 792.9  |
| 37.5°  | 83.6  | 107.1 | 322.2 | 408.7 | 630.4 | 716.8  | 723.4  | 730.0  | 759.1  | 782.6  | 790.1  |
| 40°    | 75.2  | 95.8  | 297.9 | 388.9 | 617.3 | 695.2  | 700.9  | 711.1  | 749.7  | 776.9  | 784.5  |
| 42.5°  | 68.6  | 86.4  | 271.5 | 368.3 | 600.3 | 670.8  | 679.2  | 694.2  | 738.4  | 767.6  | 776.0  |
| 45°    | 63.0  | 77.1  | 243.3 | 340.1 | 578.7 | 645.4  | 657.6  | 678.3  | 725.3  | 753.5  | 760.9  |
| 47.5°  | 57.3  | 70.4  | 214.2 | 310.9 | 555.3 | 620.1  | 636.1  | 659.5  | 707.4  | 734.7  | 741.2  |
| 50°    | 52.6  | 63.9  | 185.1 | 279.9 | 529.9 | 592.8  | 611.6  | 636.1  | 684.9  | 710.2  | 718.7  |
| 52.5°  | 48.8  | 58.3  | 157.8 | 249.0 | 500.7 | 564.6  | 586.3  | 611.6  | 657.6  | 682.1  | 687.7  |
| 55°    | 45.1  | 53.5  | 134.3 | 216.0 | 470.6 | 534.5  | 558.1  | 582.4  | 627.6  | 648.2  | 652.0  |
| 57.5°  | 43.2  | 49.8  | 114.6 | 185.1 | 438.7 | 500.7  | 527.1  | 549.6  | 591.9  | 607.8  | 611.6  |
| 60°    | 40.4  | 47.0  | 99.6  | 158.8 | 404.0 | 468.8  | 491.4  | 513.9  | 549.6  | 562.7  | 565.5  |
| 62.5°  | 37.5  | 45.1  | 88.4  | 133.4 | 368.3 | 431.2  | 453.7  | 474.5  | 504.5  | 513.9  | 517.6  |
| 65°    | 35.7  | 43.2  | 79.9  | 114.6 | 331.7 | 391.7  | 414.3  | 432.2  | 456.5  | 466.0  | 467.8  |
| 67.5°  | 33.8  | 41.4  | 73.3  | 98.6  | 295.0 | 352.3  | 369.2  | 386.1  | 404.9  | 414.3  | 415.3  |
| 70°    | 31.0  | 39.4  | 67.6  | 87.3  | 257.4 | 307.2  | 321.3  | 339.1  | 354.2  | 358.8  | 361.7  |
| 72.5°  | 29.1  | 36.6  | 63.9  | 78.9  | 218.9 | 263.9  | 277.1  | 287.5  | 300.7  | 305.3  | 305.3  |
| 75°    | 26.3  | 32.9  | 60.1  | 70.4  | 179.4 | 216.0  | 227.3  | 237.7  | 248.0  | 249.9  | 247.0  |
| 77.5°  | 23.4  | 29.1  | 51.7  | 59.2  | 140.0 | 171.0  | 180.4  | 186.1  | 194.5  | 196.3  | 197.3  |
| 80°    | 19.7  | 25.4  | 40.4  | 46.0  | 101.4 | 125.9  | 132.4  | 137.2  | 144.7  | 144.7  | 146.5  |
| 82.5°  | 15.0  | 19.7  | 29.1  | 32.9  | 68.6  | 86.4   | 92.1   | 94.9   | 99.6   | 99.6   | 99.6   |
| 85°    | 9.4   | 12.2  | 18.8  | 21.6  | 41.4  | 52.6   | 56.4   | 57.3   | 61.1   | 62.0   | 62.0   |
| 87.5°  | 4.7   | 6.5   | 12.2  | 13.2  | 21.6  | 27.3   | 27.3   | 29.1   | 29.1   | 28.2   | 27.3   |
| 90°    | 5.8   | 10.5  | 15.1  | 16.3  | 25.7  | 38.1   | 44.3   | 39.3   | 29.5   | 22.1   | 22.1   |
| 92.5°  | 23.4  | 63.0  | 102.6 | 112.5 | 158.1 | 218.9  | 249.4  | 218.6  | 156.9  | 110.7  | 106.3  |
| 95°    | 55.9  | 128.4 | 201.0 | 219.1 | 389.1 | 615.7  | 729.0  | 650.5  | 493.5  | 375.8  | 362.5  |
| 97.5°  | 96.8  | 160.7 | 224.7 | 240.7 | 524.1 | 902.0  | 1090.9 | 1041.3 | 942.1  | 867.7  | 842.3  |
| 100°   | 128.2 | 186.2 | 244.2 | 258.7 | 573.2 | 992.5  | 1202.2 | 1205.8 | 1213.1 | 1218.5 | 1188.2 |
| 102.5° | 155.0 | 209.2 | 263.3 | 276.8 | 595.8 | 1021.0 | 1233.6 | 1296.9 | 1423.2 | 1518.0 | 1492.2 |
| 105°   | 200.4 | 246.3 | 292.2 | 303.6 | 612.5 | 1024.3 | 1230.2 | 1371.9 | 1655.1 | 1867.6 | 1853.7 |
| 107.5° | 247.0 | 289.8 | 332.6 | 343.2 | 615.6 | 978.6  | 1160.2 | 1357.8 | 1753.0 | 2049.5 | 2052.8 |
| 110°   | 278.5 | 317.1 | 355.8 | 365.4 | 610.9 | 938.3  | 1101.9 | 1322.8 | 1764.7 | 2096.1 | 2110.6 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 309.4 | 346.2 | 383.0 | 392.2 | 611.1 | 903.0 | 1048.9 | 1275.0 | 1727.2 | 2066.4 | 2088.6 |
| 115°   | 356.0 | 389.9 | 423.8 | 432.3 | 616.7 | 862.5 | 985.4  | 1203.2 | 1638.9 | 1965.6 | 1996.5 |
| 117.5° | 402.1 | 432.9 | 463.7 | 471.4 | 628.1 | 837.1 | 941.7  | 1138.3 | 1531.4 | 1826.3 | 1860.5 |
| 120°   | 428.9 | 457.9 | 486.9 | 494.2 | 637.5 | 828.6 | 924.2  | 1103.8 | 1463.0 | 1732.5 | 1765.7 |
| 122.5° | 455.1 | 484.4 | 513.7 | 521.0 | 650.9 | 824.2 | 910.8  | 1072.6 | 1396.0 | 1638.6 | 1671.5 |
| 125°   | 495.3 | 522.0 | 548.7 | 555.4 | 669.0 | 820.5 | 896.3  | 1033.7 | 1308.4 | 1514.6 | 1544.8 |
| 127.5° | 528.0 | 554.9 | 581.9 | 588.6 | 687.1 | 818.4 | 884.0  | 1002.0 | 1237.9 | 1414.9 | 1440.4 |
| 130°   | 545.5 | 574.5 | 603.5 | 610.7 | 700.3 | 819.7 | 879.4  | 984.3  | 1194.4 | 1352.0 | 1375.5 |
| 132.5° | 563.5 | 592.5 | 621.5 | 628.8 | 711.0 | 820.5 | 875.3  | 969.3  | 1157.3 | 1298.4 | 1319.5 |
| 135°   | 590.3 | 616.7 | 643.2 | 649.8 | 722.6 | 819.7 | 868.2  | 947.0  | 1104.5 | 1222.6 | 1240.8 |
| 137.5° | 617.7 | 643.8 | 670.1 | 676.6 | 740.1 | 824.8 | 867.1  | 933.7  | 1066.8 | 1166.7 | 1181.5 |
| 140°   | 640.4 | 664.5 | 688.6 | 694.6 | 750.7 | 825.6 | 863.0  | 920.6  | 1035.5 | 1121.7 | 1135.7 |
| 142.5° | 657.9 | 680.2 | 702.5 | 708.1 | 759.7 | 828.6 | 863.0  | 913.5  | 1014.5 | 1090.3 | 1102.2 |
| 145°   | 684.7 | 704.1 | 723.6 | 728.4 | 771.4 | 828.6 | 857.2  | 898.5  | 981.2  | 1043.1 | 1052.2 |
| 147.5° | 711.5 | 730.4 | 749.3 | 754.0 | 788.4 | 834.2 | 857.2  | 889.7  | 954.7  | 1003.5 | 1011.0 |
| 150°   | 729.0 | 746.1 | 763.2 | 767.5 | 797.4 | 837.2 | 857.2  | 884.7  | 939.5  | 980.7  | 986.8  |
| 152.5° | 747.1 | 760.1 | 773.0 | 776.2 | 803.2 | 839.2 | 857.2  | 880.7  | 927.6  | 962.7  | 967.3  |
| 155°   | 773.9 | 783.4 | 793.0 | 795.4 | 816.0 | 843.5 | 857.2  | 875.9  | 913.2  | 941.1  | 944.2  |
| 157.5° | 793.7 | 803.1 | 812.3 | 814.6 | 828.8 | 847.8 | 857.2  | 871.7  | 900.7  | 922.5  | 924.7  |
| 160°   | 807.1 | 814.4 | 821.6 | 823.4 | 834.7 | 849.8 | 857.2  | 869.6  | 894.5  | 913.2  | 914.4  |
| 162.5° | 820.5 | 825.9 | 831.4 | 832.8 | 840.9 | 851.8 | 857.2  | 867.7  | 888.7  | 904.4  | 905.5  |
| 165°   | 835.1 | 839.9 | 844.9 | 846.1 | 849.8 | 854.8 | 857.2  | 864.7  | 879.7  | 891.0  | 892.3  |
| 167.5° | 848.4 | 850.8 | 853.1 | 853.7 | 856.8 | 861.0 | 863.0  | 868.0  | 877.8  | 885.2  | 885.7  |
| 170°   | 857.2 | 859.6 | 861.9 | 862.5 | 862.6 | 862.9 | 863.0  | 868.0  | 877.8  | 885.2  | 885.2  |
| 172.5° | 861.9 | 862.4 | 862.9 | 863.0 | 863.0 | 863.0 | 863.0  | 866.9  | 874.7  | 880.5  | 880.0  |
| 175°   | 868.2 | 868.2 | 868.2 | 868.2 | 866.5 | 864.1 | 863.0  | 865.4  | 870.4  | 874.1  | 874.1  |
| 177.5° | 868.2 | 868.2 | 868.2 | 868.2 | 866.9 | 865.2 | 864.2  | 866.2  | 870.0  | 872.9  | 872.4  |
| 180°   | 868.2 | 868.2 | 868.2 | 868.2 | 868.2 | 868.2 | 868.2  | 868.2  | 868.2  | 868.2  | 868.2  |

TEST NUMBER: P937491

CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-W2A-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 292.2  | 292.2  |
| 2.5°   | 311.9  | 310.0  |
| 5°     | 401.2  | 403.0  |
| 7.5°   | 540.2  | 539.3  |
| 10°    | 671.7  | 680.1  |
| 12.5°  | 767.6  | 769.4  |
| 15°    | 825.8  | 829.6  |
| 17.5°  | 848.4  | 849.3  |
| 20°    | 849.3  | 847.4  |
| 22.5°  | 838.9  | 837.1  |
| 25°    | 826.8  | 825.8  |
| 27.5°  | 815.5  | 816.4  |
| 30°    | 810.8  | 813.6  |
| 32.5°  | 810.8  | 815.5  |
| 35°    | 812.7  | 817.3  |
| 37.5°  | 811.7  | 817.3  |
| 40°    | 807.9  | 814.5  |
| 42.5°  | 797.6  | 802.3  |
| 45°    | 781.7  | 787.3  |
| 47.5°  | 760.9  | 764.8  |
| 50°    | 734.7  | 738.4  |
| 52.5°  | 701.8  | 702.7  |
| 55°    | 662.3  | 666.1  |
| 57.5°  | 620.1  | 621.0  |
| 60°    | 573.1  | 575.9  |
| 62.5°  | 523.3  | 523.3  |
| 65°    | 470.6  | 472.5  |
| 67.5°  | 416.2  | 420.9  |
| 70°    | 360.8  | 361.7  |
| 72.5°  | 306.3  | 306.3  |
| 75°    | 249.9  | 250.9  |
| 77.5°  | 196.3  | 196.3  |
| 80°    | 145.6  | 146.5  |
| 82.5°  | 100.5  | 102.4  |
| 85°    | 63.0   | 63.0   |
| 87.5°  | 29.1   | 26.3   |
| 90°    | 22.1   | 22.1   |
| 92.5°  | 88.6   | 71.1   |
| 95°    | 309.2  | 255.8  |
| 97.5°  | 740.8  | 639.2  |
| 100°   | 1067.3 | 946.3  |
| 102.5° | 1388.5 | 1284.9 |
| 105°   | 1798.0 | 1742.4 |
| 107.5° | 2066.4 | 2079.8 |
| 110°   | 2168.7 | 2226.7 |



TEST NUMBER: P937491

CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-W2A-W-6-5000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 2177.7 | 2266.8 |
| 115°   | 2120.0 | 2243.6 |
| 117.5° | 1997.5 | 2134.6 |
| 120°   | 1898.9 | 2032.0 |
| 122.5° | 1802.8 | 1934.1 |
| 125°   | 1665.7 | 1786.6 |
| 127.5° | 1542.5 | 1644.5 |
| 130°   | 1469.8 | 1564.1 |
| 132.5° | 1403.9 | 1488.3 |
| 135°   | 1313.6 | 1386.3 |
| 137.5° | 1241.1 | 1300.7 |
| 140°   | 1191.4 | 1247.1 |
| 142.5° | 1150.2 | 1198.1 |
| 145°   | 1088.5 | 1124.7 |
| 147.5° | 1041.0 | 1071.1 |
| 150°   | 1011.1 | 1035.5 |
| 152.5° | 985.7  | 1004.0 |
| 155°   | 956.3  | 968.5  |
| 157.5° | 933.2  | 941.7  |
| 160°   | 919.3  | 924.2  |
| 162.5° | 910.2  | 914.9  |
| 165°   | 897.2  | 902.1  |
| 167.5° | 887.8  | 889.8  |
| 170°   | 885.2  | 885.2  |
| 172.5° | 878.2  | 876.5  |
| 175°   | 874.1  | 874.1  |
| 177.5° | 870.3  | 868.2  |
| 180°   | 868.2  | 868.2  |

TEST NUMBER: P937491

CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-W2A-W-6-5000K

**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 | 0.68             | 1.40  | 1.80  | 2.51  | 4.06  | 13.85          | 14.57 | 14.96 | 15.68 | 17.22 |
|                 | 3H   | 1.38             | 2.02  | 2.50  | 3.14  | 4.70  | 15.67          | 16.31 | 16.80 | 17.44 | 19.00 |
|                 | 4H   | 1.67             | 2.28  | 2.80  | 3.40  | 4.97  | 16.31          | 16.92 | 17.44 | 18.04 | 19.61 |
|                 | 6H   | 1.91             | 2.47  | 3.05  | 3.60  | 5.18  | 16.73          | 17.29 | 17.87 | 18.41 | 19.99 |
|                 | 8H   | 1.97             | 2.51  | 3.12  | 3.65  | 5.22  | 16.84          | 17.38 | 17.98 | 18.52 | 20.09 |
|                 | 12H  | 1.99             | 2.50  | 3.14  | 3.63  | 5.22  | 16.90          | 17.41 | 18.05 | 18.54 | 20.14 |
| 4H              | 2H   | 7.87             | 8.48  | 9.01  | 9.61  | 11.17 | 14.11          | 14.72 | 15.25 | 15.84 | 17.40 |
|                 | 3H   | 9.43             | 9.94  | 10.57 | 11.09 | 12.66 | 16.13          | 16.64 | 17.28 | 17.79 | 19.37 |
|                 | 4H   | 9.52             | 9.99  | 10.67 | 11.12 | 12.72 | 16.89          | 17.36 | 18.04 | 18.50 | 20.09 |
|                 | 6H   | 9.52             | 9.92  | 10.67 | 11.08 | 12.67 | 17.42          | 17.82 | 18.57 | 18.98 | 20.57 |
|                 | 8H   | 9.49             | 9.87  | 10.65 | 11.02 | 12.62 | 17.57          | 17.95 | 18.73 | 19.10 | 20.70 |
|                 | 12H  | 9.44             | 9.78  | 10.61 | 10.94 | 12.55 | 17.65          | 18.00 | 18.83 | 19.16 | 20.77 |
| 8H              | 4H   | 10.94            | 11.32 | 12.10 | 12.47 | 14.08 | 16.94          | 17.31 | 18.09 | 18.47 | 20.07 |
|                 | 6H   | 11.18            | 11.49 | 12.36 | 12.68 | 14.29 | 17.56          | 17.87 | 18.73 | 19.06 | 20.66 |
|                 | 8H   | 11.20            | 11.47 | 12.38 | 12.64 | 14.26 | 17.77          | 18.04 | 18.95 | 19.21 | 20.84 |
|                 | 12H  | 11.16            | 11.40 | 12.34 | 12.57 | 14.22 | 17.91          | 18.14 | 19.09 | 19.31 | 20.97 |
| 12H             | 4H   | 11.08            | 11.42 | 12.25 | 12.58 | 14.19 | 16.88          | 17.22 | 18.06 | 18.39 | 20.00 |
|                 | 6H   | 11.43            | 11.71 | 12.62 | 12.88 | 14.50 | 17.54          | 17.81 | 18.72 | 18.98 | 20.60 |
|                 | 8H   | 11.50            | 11.74 | 12.68 | 12.91 | 14.56 | 17.76          | 18.00 | 18.94 | 19.17 | 20.82 |