

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: P937684

Luminaire Tested: SQ4-FB-100U-100D-B2750-1D-UNV-W2A-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937684  
REPORT IS A COMBINATION OF REPORTS P933567 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-100U-100D-B2750-1D-UNV-W2A-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

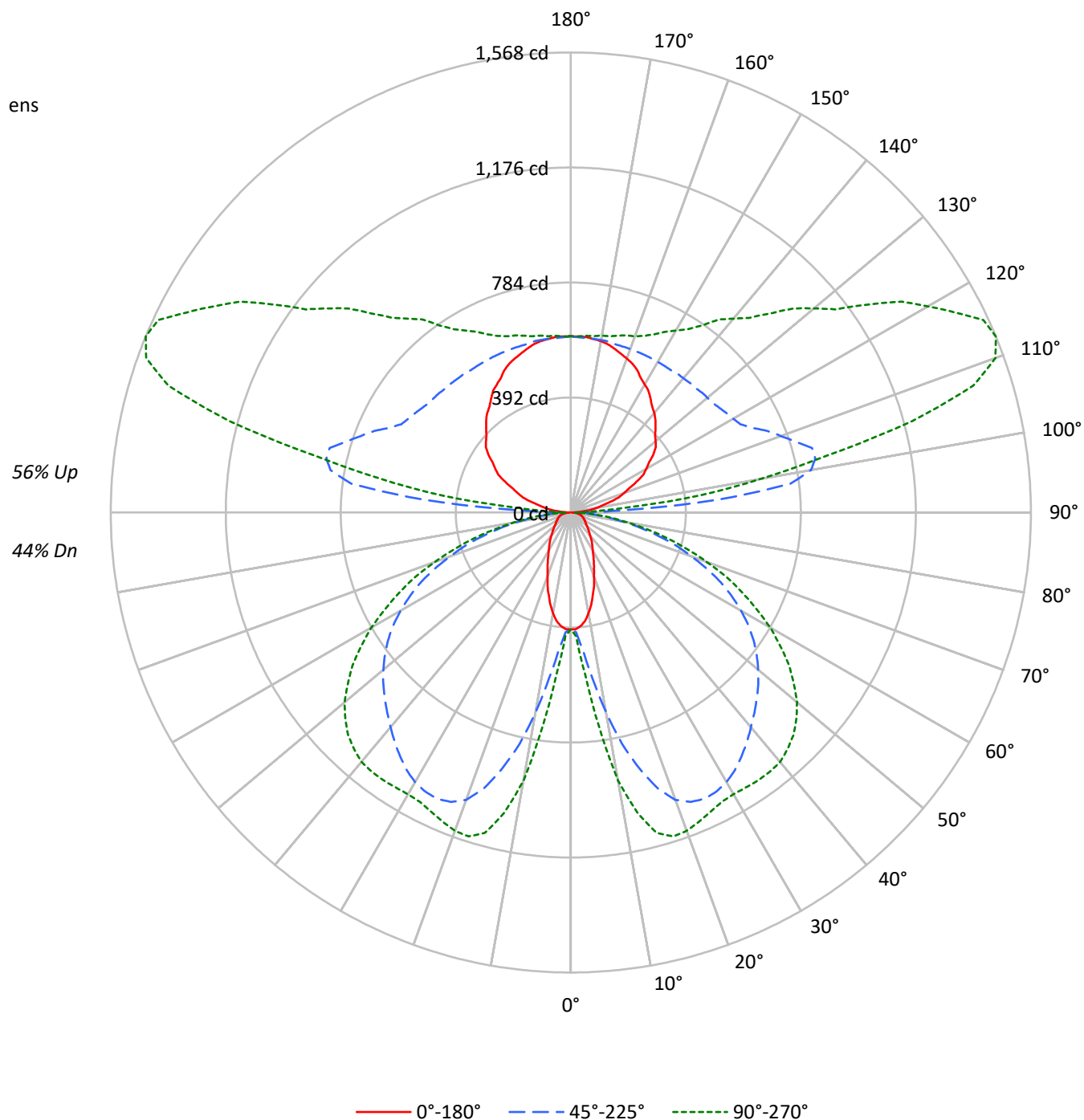
Lumens per Lamp: N/A  
Luminaire Lumens: 6975.8 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 58  
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: P937684

CATALOG NUMBER: SQ4-FB-100U-100D-B2750-1D-UNV-W2A-W-4-3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P937684

CATALOG NUMBER: SQ4-FB-100U-100D-B2750-1D-UNV-W2A-W-4-3500K

**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   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 |
| 1   | 96  | 91  | 87  | 84  | 88 | 84 | 80 | 77 | 69 | 67 | 65 | 56 | 55 | 53 | 44 | 43 | 42 |
| 2   | 87  | 79  | 73  | 68  | 79 | 73 | 67 | 63 | 60 | 56 | 53 | 49 | 46 | 43 | 38 | 36 | 34 |
| 3   | 79  | 69  | 62  | 56  | 72 | 63 | 57 | 52 | 53 | 48 | 44 | 43 | 39 | 36 | 33 | 31 | 29 |
| 4   | 72  | 61  | 53  | 46  | 65 | 56 | 49 | 43 | 46 | 41 | 37 | 38 | 34 | 30 | 29 | 27 | 24 |
| 5   | 66  | 54  | 46  | 39  | 60 | 49 | 42 | 37 | 41 | 36 | 31 | 33 | 29 | 26 | 26 | 23 | 21 |
| 6   | 60  | 48  | 40  | 34  | 55 | 44 | 37 | 31 | 37 | 31 | 27 | 30 | 26 | 22 | 24 | 20 | 18 |
| 7   | 56  | 43  | 35  | 29  | 51 | 40 | 32 | 27 | 33 | 27 | 23 | 27 | 23 | 19 | 21 | 18 | 16 |
| 8   | 51  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 25 | 20 | 17 | 19 | 16 | 14 |
| 9   | 48  | 35  | 28  | 23  | 44 | 33 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 15 | 12 |
| 10  | 44  | 32  | 25  | 20  | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 16 | 14 | 16 | 13 | 11 |

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

|     | 0°   | 45°  | 90°   |
|-----|------|------|-------|
| 0°  | 3695 | 3695 | 3695  |
| 5°  | 3606 | 4267 | 4967  |
| 10° | 3267 | 6216 | 8233  |
| 15° | 2773 | 8116 | 9942  |
| 20° | 2255 | 9398 | 10133 |
| 25° | 1879 | 9827 | 9927  |
| 30° | 1582 | 9881 | 9908  |
| 35° | 1397 | 9710 | 10165 |
| 40° | 1215 | 9487 | 10429 |
| 45° | 1098 | 9323 | 10470 |
| 50° | 1005 | 9173 | 10297 |
| 55° | 959  | 8959 | 9840  |
| 60° | 978  | 8554 | 9120  |
| 65° | 1013 | 7942 | 8129  |
| 70° | 1071 | 6913 | 6867  |
| 75° | 1177 | 5623 | 5360  |
| 80° | 1254 | 3884 | 3611  |
| 85° | 1060 | 2050 | 1849  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 10470 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.5   | 0.7       |
| 10°-20°   | 228.3  | 3.3       |
| 20°-30°   | 399.3  | 5.7       |
| 30°-40°   | 514.0  | 7.4       |
| 40°-50°   | 574.2  | 8.2       |
| 50°-60°   | 549.9  | 7.9       |
| 60°-70°   | 435.8  | 6.2       |
| 70°-80°   | 256.3  | 3.7       |
| 80°-90°   | 73.5   | 1.1       |
| 90°-100°  | 292.7  | 4.2       |
| 100°-110° | 769.6  | 11.0      |
| 110°-120° | 798.0  | 11.4      |
| 120°-130° | 640.1  | 9.2       |
| 130°-140° | 502.2  | 7.2       |
| 140°-150° | 385.5  | 5.5       |
| 150°-160° | 277.6  | 4.0       |
| 160°-170° | 169.9  | 2.4       |
| 170°-180° | 57.4   | 0.8       |
| 0°-30°    | 679.1  | 9.7       |
| 0°-40°    | 1193.1 | 17.1      |
| 0°-60°    | 2317.2 | 33.2      |
| 0°-90°    | 3082.7 | 44.2      |
| 90°-120°  | 1860.4 | 26.7      |
| 90°-150°  | 3388.2 | 48.6      |
| 90°-180°  | 3893.0 | 55.8      |
| 0°-180°   | 6975.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 398 | 398   | 398  | 398   | 398  |      |
| 5°   | 388 | 416   | 469  | 530   | 549  | 36   |
| 15°  | 291 | 536   | 904  | 1096  | 1130 | 81   |
| 25°  | 186 | 608   | 1077 | 1124  | 1126 | 86   |
| 35°  | 126 | 581   | 1014 | 1072  | 1114 | 78   |
| 45°  | 86  | 464   | 896  | 1027  | 1073 | 66   |
| 55°  | 61  | 294   | 761  | 883   | 908  | 56   |
| 65°  | 49  | 156   | 565  | 635   | 644  | 48   |
| 75°  | 36  | 96    | 310  | 341   | 342  | 38   |
| 85°  | 13  | 30    | 77   | 84    | 86   | 14   |
| 90°  | 4   | 11    | 31   | 15    | 15   | 4    |
| 95°  | 39  | 152   | 504  | 260   | 177  | 43   |
| 105° | 139 | 210   | 851  | 1292  | 1205 | 147  |
| 115° | 246 | 299   | 682  | 1360  | 1552 | 243  |
| 125° | 343 | 384   | 620  | 1048  | 1236 | 304  |
| 135° | 408 | 449   | 601  | 846   | 959  | 316  |
| 145° | 474 | 504   | 593  | 721   | 778  | 297  |
| 155° | 535 | 550   | 593  | 651   | 670  | 246  |
| 165° | 578 | 585   | 593  | 616   | 624  | 163  |
| 175° | 601 | 601   | 597  | 605   | 605  | 57   |
| 180° | 601 | 601   | 601  | 601   | 601  |      |

TEST NUMBER: P937684

CATALOG NUMBER: SQ4-FB-100U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 398.2 | 398.2 | 398.2 | 398.2 | 398.2 | 398.2  | 398.2  | 398.2  | 398.2  | 398.2  | 398.2  |
| 2.5°   | 398.2 | 398.2 | 400.8 | 402.0 | 404.6 | 405.9  | 408.4  | 411.0  | 418.7  | 420.0  | 422.5  |
| 5°     | 388.0 | 393.1 | 409.7 | 416.1 | 434.0 | 458.3  | 468.6  | 485.3  | 519.9  | 530.0  | 536.4  |
| 7.5°   | 372.6 | 384.1 | 425.1 | 435.4 | 480.1 | 544.2  | 571.0  | 606.9  | 661.9  | 688.9  | 710.6  |
| 10°    | 348.3 | 372.6 | 445.5 | 469.9 | 542.8 | 640.2  | 690.1  | 740.0  | 823.3  | 860.4  | 874.5  |
| 12.5°  | 321.4 | 361.0 | 467.3 | 500.6 | 605.6 | 747.8  | 808.0  | 863.0  | 957.8  | 1007.7 | 1015.3 |
| 15°    | 290.6 | 344.4 | 487.8 | 536.4 | 672.2 | 837.4  | 904.0  | 971.8  | 1060.2 | 1096.0 | 1105.0 |
| 17.5°  | 263.8 | 331.6 | 507.0 | 558.2 | 723.5 | 918.0  | 985.9  | 1042.3 | 1114.0 | 1138.3 | 1144.7 |
| 20°    | 230.4 | 311.1 | 519.9 | 586.4 | 777.2 | 976.9  | 1042.3 | 1085.8 | 1134.4 | 1149.8 | 1152.3 |
| 22.5°  | 206.1 | 289.3 | 527.5 | 596.6 | 813.0 | 1012.8 | 1067.8 | 1102.4 | 1135.7 | 1140.8 | 1142.1 |
| 25°    | 185.7 | 265.0 | 526.3 | 608.1 | 843.8 | 1034.5 | 1076.8 | 1102.4 | 1121.6 | 1124.1 | 1124.1 |
| 27.5°  | 166.5 | 238.2 | 521.1 | 610.8 | 866.8 | 1039.6 | 1073.0 | 1090.9 | 1099.8 | 1105.0 | 1105.0 |
| 30°    | 149.8 | 212.5 | 508.3 | 605.6 | 877.0 | 1034.5 | 1061.4 | 1070.4 | 1079.4 | 1087.0 | 1090.9 |
| 32.5°  | 137.0 | 188.2 | 489.2 | 595.4 | 878.3 | 1021.7 | 1040.9 | 1046.0 | 1058.8 | 1076.8 | 1083.2 |
| 35°    | 125.5 | 163.9 | 467.3 | 581.3 | 870.6 | 1001.3 | 1014.1 | 1019.2 | 1044.8 | 1071.7 | 1080.6 |
| 37.5°  | 114.0 | 145.9 | 439.2 | 557.0 | 859.1 | 976.9  | 985.9  | 994.9  | 1034.5 | 1066.6 | 1076.8 |
| 40°    | 102.4 | 130.6 | 405.9 | 530.0 | 841.2 | 947.5  | 955.1  | 969.3  | 1021.7 | 1058.8 | 1069.1 |
| 42.5°  | 93.5  | 117.8 | 370.1 | 501.9 | 818.1 | 914.2  | 925.7  | 946.2  | 1006.4 | 1046.0 | 1057.6 |
| 45°    | 85.8  | 104.9 | 331.6 | 463.5 | 788.7 | 879.7  | 896.2  | 924.4  | 988.5  | 1026.8 | 1037.1 |
| 47.5°  | 78.1  | 96.0  | 292.0 | 423.8 | 756.7 | 845.1  | 866.8  | 898.8  | 964.2  | 1001.3 | 1010.2 |
| 50°    | 71.7  | 87.1  | 252.2 | 381.6 | 722.1 | 808.0  | 833.5  | 866.8  | 933.4  | 967.9  | 979.5  |
| 52.5°  | 66.6  | 79.4  | 215.1 | 339.3 | 682.5 | 769.5  | 798.9  | 833.5  | 896.2  | 929.6  | 937.2  |
| 55°    | 61.4  | 73.0  | 183.1 | 294.5 | 641.5 | 728.5  | 760.6  | 793.8  | 855.3  | 883.4  | 888.6  |
| 57.5°  | 58.9  | 67.8  | 156.2 | 252.2 | 598.0 | 682.5  | 718.3  | 749.0  | 806.6  | 828.4  | 833.5  |
| 60°    | 55.0  | 64.1  | 135.8 | 216.4 | 550.6 | 638.9  | 669.7  | 700.4  | 749.0  | 767.0  | 770.7  |
| 62.5°  | 51.3  | 61.4  | 120.3 | 181.8 | 501.9 | 587.7  | 618.4  | 646.6  | 687.6  | 700.4  | 705.5  |
| 65°    | 48.6  | 58.9  | 108.8 | 156.2 | 451.9 | 533.9  | 564.6  | 589.0  | 622.3  | 635.1  | 637.6  |
| 67.5°  | 46.1  | 56.3  | 99.9  | 134.4 | 402.0 | 480.1  | 503.2  | 526.3  | 551.8  | 564.6  | 565.9  |
| 70°    | 42.2  | 53.8  | 92.2  | 119.1 | 350.8 | 418.7  | 437.9  | 462.2  | 482.7  | 489.2  | 492.9  |
| 72.5°  | 39.7  | 49.9  | 87.1  | 107.6 | 298.4 | 359.8  | 377.7  | 391.8  | 409.7  | 416.1  | 416.1  |
| 75°    | 35.9  | 44.8  | 82.0  | 96.0  | 244.6 | 294.5  | 309.9  | 323.9  | 338.0  | 340.6  | 336.7  |
| 77.5°  | 32.0  | 39.7  | 70.4  | 80.6  | 190.8 | 233.0  | 245.8  | 253.5  | 265.0  | 267.6  | 268.9  |
| 80°    | 26.8  | 34.6  | 55.0  | 62.7  | 138.3 | 171.6  | 180.5  | 186.9  | 197.2  | 197.2  | 199.7  |
| 82.5°  | 20.4  | 26.8  | 39.7  | 44.8  | 93.5  | 117.8  | 125.5  | 129.4  | 135.8  | 135.8  | 135.8  |
| 85°    | 12.8  | 16.7  | 25.6  | 29.5  | 56.3  | 71.7   | 76.8   | 78.1   | 83.2   | 84.5   | 84.5   |
| 87.5°  | 6.4   | 8.9   | 16.7  | 17.9  | 29.5  | 37.1   | 37.1   | 39.7   | 39.7   | 38.4   | 37.1   |
| 90°    | 4.1   | 7.3   | 10.5  | 11.2  | 17.7  | 26.4   | 30.6   | 27.2   | 20.4   | 15.3   | 15.3   |
| 92.5°  | 16.1  | 43.5  | 70.9  | 77.8  | 109.4 | 151.5  | 172.5  | 151.2  | 108.5  | 76.6   | 73.5   |
| 95°    | 38.7  | 88.9  | 139.1 | 151.6 | 269.1 | 425.8  | 504.2  | 449.9  | 341.4  | 260.0  | 250.8  |
| 97.5°  | 66.9  | 111.1 | 155.4 | 166.5 | 362.5 | 623.8  | 754.5  | 720.2  | 651.6  | 600.1  | 582.6  |
| 100°   | 88.7  | 128.8 | 168.9 | 179.0 | 396.5 | 686.5  | 831.5  | 834.0  | 839.0  | 842.7  | 821.8  |
| 102.5° | 107.2 | 144.7 | 182.1 | 191.5 | 412.1 | 706.2  | 853.3  | 897.0  | 984.4  | 1049.9 | 1032.0 |
| 105°   | 138.7 | 170.4 | 202.0 | 210.0 | 423.6 | 708.4  | 850.9  | 948.8  | 1144.8 | 1291.8 | 1282.2 |
| 107.5° | 170.9 | 200.5 | 230.0 | 237.4 | 425.8 | 676.8  | 802.4  | 939.2  | 1212.5 | 1417.6 | 1419.9 |
| 110°   | 192.6 | 219.4 | 246.0 | 252.7 | 422.5 | 648.9  | 762.1  | 914.9  | 1220.6 | 1449.7 | 1459.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 112.5° | 214.1 | 239.4 | 264.8 | 271.2 | 422.7 | 624.5 | 725.5 | 881.9 | 1194.6 | 1429.2 | 1444.6 |
| 115°   | 246.2 | 269.7 | 293.1 | 299.0 | 426.6 | 596.6 | 681.6 | 832.3 | 1133.5 | 1359.5 | 1380.8 |
| 117.5° | 278.1 | 299.4 | 320.7 | 326.1 | 434.5 | 579.1 | 651.4 | 787.3 | 1059.2 | 1263.2 | 1286.8 |
| 120°   | 296.6 | 316.7 | 336.7 | 341.8 | 440.9 | 573.2 | 639.2 | 763.5 | 1011.9 | 1198.3 | 1221.3 |
| 122.5° | 314.8 | 335.1 | 355.3 | 360.4 | 450.2 | 570.1 | 629.9 | 741.8 | 965.5  | 1133.3 | 1156.0 |
| 125°   | 342.6 | 361.0 | 379.5 | 384.1 | 462.7 | 567.4 | 619.9 | 714.9 | 904.9  | 1047.5 | 1068.4 |
| 127.5° | 365.1 | 383.7 | 402.4 | 407.1 | 475.2 | 566.0 | 611.4 | 693.0 | 856.2  | 978.6  | 996.2  |
| 130°   | 377.2 | 397.3 | 417.3 | 422.4 | 484.3 | 567.0 | 608.2 | 680.9 | 826.2  | 935.1  | 951.4  |
| 132.5° | 389.7 | 409.8 | 429.8 | 434.9 | 491.7 | 567.4 | 605.3 | 670.4 | 800.4  | 898.0  | 912.6  |
| 135°   | 408.3 | 426.6 | 444.9 | 449.4 | 499.8 | 567.0 | 600.6 | 655.0 | 763.9  | 845.5  | 858.1  |
| 137.5° | 427.2 | 445.4 | 463.4 | 467.9 | 511.8 | 570.5 | 599.7 | 645.7 | 737.8  | 806.9  | 817.2  |
| 140°   | 442.9 | 459.6 | 476.3 | 480.4 | 519.3 | 571.0 | 596.9 | 636.6 | 716.2  | 775.9  | 785.5  |
| 142.5° | 455.0 | 470.4 | 485.9 | 489.7 | 525.5 | 573.1 | 596.9 | 631.8 | 701.7  | 754.1  | 762.4  |
| 145°   | 473.6 | 487.0 | 500.4 | 503.8 | 533.5 | 573.2 | 592.9 | 621.5 | 678.6  | 721.4  | 727.7  |
| 147.5° | 492.2 | 505.2 | 518.2 | 521.5 | 545.4 | 577.0 | 592.9 | 615.4 | 660.4  | 694.1  | 699.3  |
| 150°   | 504.2 | 516.0 | 527.8 | 530.8 | 551.6 | 579.2 | 592.9 | 611.9 | 649.8  | 678.3  | 682.5  |
| 152.5° | 516.7 | 525.6 | 534.6 | 536.8 | 555.5 | 580.4 | 592.9 | 609.1 | 641.5  | 665.8  | 669.0  |
| 155°   | 535.3 | 541.9 | 548.6 | 550.2 | 564.4 | 583.4 | 592.9 | 605.8 | 631.6  | 650.9  | 653.0  |
| 157.5° | 548.9 | 555.4 | 561.8 | 563.5 | 573.3 | 586.3 | 592.9 | 602.9 | 623.0  | 638.0  | 639.4  |
| 160°   | 558.2 | 563.3 | 568.2 | 569.5 | 577.3 | 587.7 | 592.9 | 601.6 | 618.7  | 631.6  | 632.5  |
| 162.5° | 567.4 | 571.2 | 575.0 | 576.0 | 581.6 | 589.2 | 592.9 | 600.2 | 614.6  | 625.5  | 626.3  |
| 165°   | 577.5 | 580.9 | 584.3 | 585.2 | 587.8 | 591.2 | 592.9 | 598.2 | 608.5  | 616.3  | 617.2  |
| 167.5° | 586.8 | 588.5 | 590.1 | 590.5 | 592.6 | 595.5 | 596.9 | 600.3 | 607.1  | 612.2  | 612.6  |
| 170°   | 592.9 | 594.5 | 596.1 | 596.5 | 596.6 | 596.8 | 596.9 | 600.3 | 607.1  | 612.2  | 612.2  |
| 172.5° | 596.1 | 596.5 | 596.8 | 596.9 | 596.9 | 596.9 | 596.9 | 599.6 | 604.9  | 609.0  | 608.7  |
| 175°   | 600.6 | 600.6 | 600.6 | 600.6 | 599.3 | 597.7 | 596.9 | 598.6 | 602.0  | 604.6  | 604.6  |
| 177.5° | 600.6 | 600.6 | 600.6 | 600.6 | 599.6 | 598.4 | 597.7 | 599.0 | 601.7  | 603.8  | 603.4  |
| 180°   | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6  | 600.6  | 600.6  |

TEST NUMBER: P937684

CATALOG NUMBER: SQ4-FB-100U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 398.2  | 398.2  |
| 2.5°   | 425.1  | 422.5  |
| 5°     | 546.7  | 549.3  |
| 7.5°   | 736.2  | 734.9  |
| 10°    | 915.5  | 926.9  |
| 12.5°  | 1046.0 | 1048.7 |
| 15°    | 1125.5 | 1130.5 |
| 17.5°  | 1156.2 | 1157.5 |
| 20°    | 1157.5 | 1154.9 |
| 22.5°  | 1143.4 | 1140.8 |
| 25°    | 1126.8 | 1125.5 |
| 27.5°  | 1111.3 | 1112.6 |
| 30°    | 1105.0 | 1108.8 |
| 32.5°  | 1105.0 | 1111.3 |
| 35°    | 1107.6 | 1114.0 |
| 37.5°  | 1106.2 | 1114.0 |
| 40°    | 1101.2 | 1110.1 |
| 42.5°  | 1087.0 | 1093.4 |
| 45°    | 1065.3 | 1073.0 |
| 47.5°  | 1037.1 | 1042.3 |
| 50°    | 1001.3 | 1006.4 |
| 52.5°  | 956.4  | 957.8  |
| 55°    | 902.6  | 907.8  |
| 57.5°  | 845.1  | 846.3  |
| 60°    | 781.0  | 784.9  |
| 62.5°  | 713.2  | 713.2  |
| 65°    | 641.5  | 644.0  |
| 67.5°  | 567.3  | 573.6  |
| 70°    | 491.7  | 492.9  |
| 72.5°  | 417.4  | 417.4  |
| 75°    | 340.6  | 341.9  |
| 77.5°  | 267.6  | 267.6  |
| 80°    | 198.5  | 199.7  |
| 82.5°  | 137.0  | 139.5  |
| 85°    | 85.8   | 85.8   |
| 87.5°  | 39.7   | 35.9   |
| 90°    | 15.3   | 15.3   |
| 92.5°  | 61.3   | 49.1   |
| 95°    | 213.9  | 176.9  |
| 97.5°  | 512.3  | 442.2  |
| 100°   | 738.2  | 654.6  |
| 102.5° | 960.4  | 888.8  |
| 105°   | 1243.6 | 1205.1 |
| 107.5° | 1429.2 | 1438.5 |
| 110°   | 1499.9 | 1540.0 |

TEST NUMBER: P937684

CATALOG NUMBER: SQ4-FB-100U-100D-B2750-1D-UNV-W2A-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 1506.2 | 1567.8 |
| 115°   | 1466.3 | 1551.8 |
| 117.5° | 1381.6 | 1476.4 |
| 120°   | 1313.4 | 1405.4 |
| 122.5° | 1246.9 | 1337.7 |
| 125°   | 1152.0 | 1235.8 |
| 127.5° | 1066.9 | 1137.4 |
| 130°   | 1016.6 | 1081.8 |
| 132.5° | 970.9  | 1029.4 |
| 135°   | 908.4  | 958.8  |
| 137.5° | 858.4  | 899.6  |
| 140°   | 824.0  | 862.5  |
| 142.5° | 795.5  | 828.7  |
| 145°   | 752.8  | 777.9  |
| 147.5° | 720.1  | 740.8  |
| 150°   | 699.3  | 716.2  |
| 152.5° | 681.7  | 694.5  |
| 155°   | 661.4  | 669.9  |
| 157.5° | 645.5  | 651.4  |
| 160°   | 635.9  | 639.2  |
| 162.5° | 629.6  | 632.8  |
| 165°   | 620.5  | 623.9  |
| 167.5° | 614.0  | 615.4  |
| 170°   | 612.2  | 612.2  |
| 172.5° | 607.5  | 606.2  |
| 175°   | 604.6  | 604.6  |
| 177.5° | 602.0  | 600.6  |
| 180°   | 600.6  | 600.6  |

TEST NUMBER: P937684

CATALOG NUMBER: SQ4-FB-100U-100D-B2750-1D-UNV-W2A-W-4-3500K

**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 | 4.98             | 5.82  | 5.97  | 6.84  | 8.18  | 18.12          | 18.96 | 19.11 | 19.97 | 21.32 |
|                 | 3H   | 5.68             | 6.44  | 6.69  | 7.46  | 8.83  | 19.94          | 20.70 | 20.95 | 21.72 | 23.09 |
|                 | 4H   | 5.98             | 6.70  | 7.00  | 7.72  | 9.10  | 20.57          | 21.29 | 21.59 | 22.32 | 23.69 |
|                 | 6H   | 6.23             | 6.89  | 7.26  | 7.92  | 9.31  | 20.99          | 21.65 | 22.02 | 22.68 | 24.07 |
|                 | 8H   | 6.30             | 6.93  | 7.33  | 7.98  | 9.36  | 21.10          | 21.74 | 22.14 | 22.78 | 24.17 |
|                 | 12H  | 6.31             | 6.91  | 7.36  | 7.96  | 9.37  | 21.16          | 21.77 | 22.21 | 22.81 | 24.22 |
| 4H              | 2H   | 12.17            | 12.88 | 13.19 | 13.91 | 15.29 | 18.39          | 19.11 | 19.42 | 20.13 | 21.51 |
|                 | 3H   | 13.73            | 14.34 | 14.77 | 15.39 | 16.78 | 20.42          | 21.02 | 21.46 | 22.08 | 23.47 |
|                 | 4H   | 13.83            | 14.38 | 14.87 | 15.43 | 16.84 | 21.17          | 21.73 | 22.22 | 22.77 | 24.19 |
|                 | 6H   | 13.84            | 14.31 | 14.89 | 15.38 | 16.79 | 21.70          | 22.18 | 22.75 | 23.25 | 24.65 |
|                 | 8H   | 13.82            | 14.26 | 14.87 | 15.32 | 16.75 | 21.86          | 22.30 | 22.91 | 23.36 | 24.79 |
|                 | 12H  | 13.77            | 14.17 | 14.84 | 15.25 | 16.68 | 21.94          | 22.34 | 23.01 | 23.42 | 24.85 |
| 8H              | 4H   | 15.26            | 15.71 | 16.32 | 16.77 | 18.19 | 21.23          | 21.68 | 22.29 | 22.74 | 24.17 |
|                 | 6H   | 15.50            | 15.87 | 16.58 | 16.97 | 18.40 | 21.85          | 22.22 | 22.93 | 23.32 | 24.74 |
|                 | 8H   | 15.52            | 15.85 | 16.61 | 16.93 | 18.37 | 22.06          | 22.39 | 23.15 | 23.47 | 24.91 |
|                 | 12H  | 15.49            | 15.77 | 16.58 | 16.86 | 18.34 | 22.20          | 22.48 | 23.29 | 23.57 | 25.05 |
| 12H             | 4H   | 15.40            | 15.80 | 16.47 | 16.88 | 18.31 | 21.19          | 21.59 | 22.26 | 22.67 | 24.09 |
|                 | 6H   | 15.76            | 16.08 | 16.84 | 17.17 | 18.61 | 21.83          | 22.16 | 22.92 | 23.24 | 24.69 |
|                 | 8H   | 15.83            | 16.11 | 16.92 | 17.19 | 18.67 | 22.06          | 22.34 | 23.15 | 23.42 | 24.90 |