

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: P937452

Luminaire Tested: SQ4-FB-100U-050D-930-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

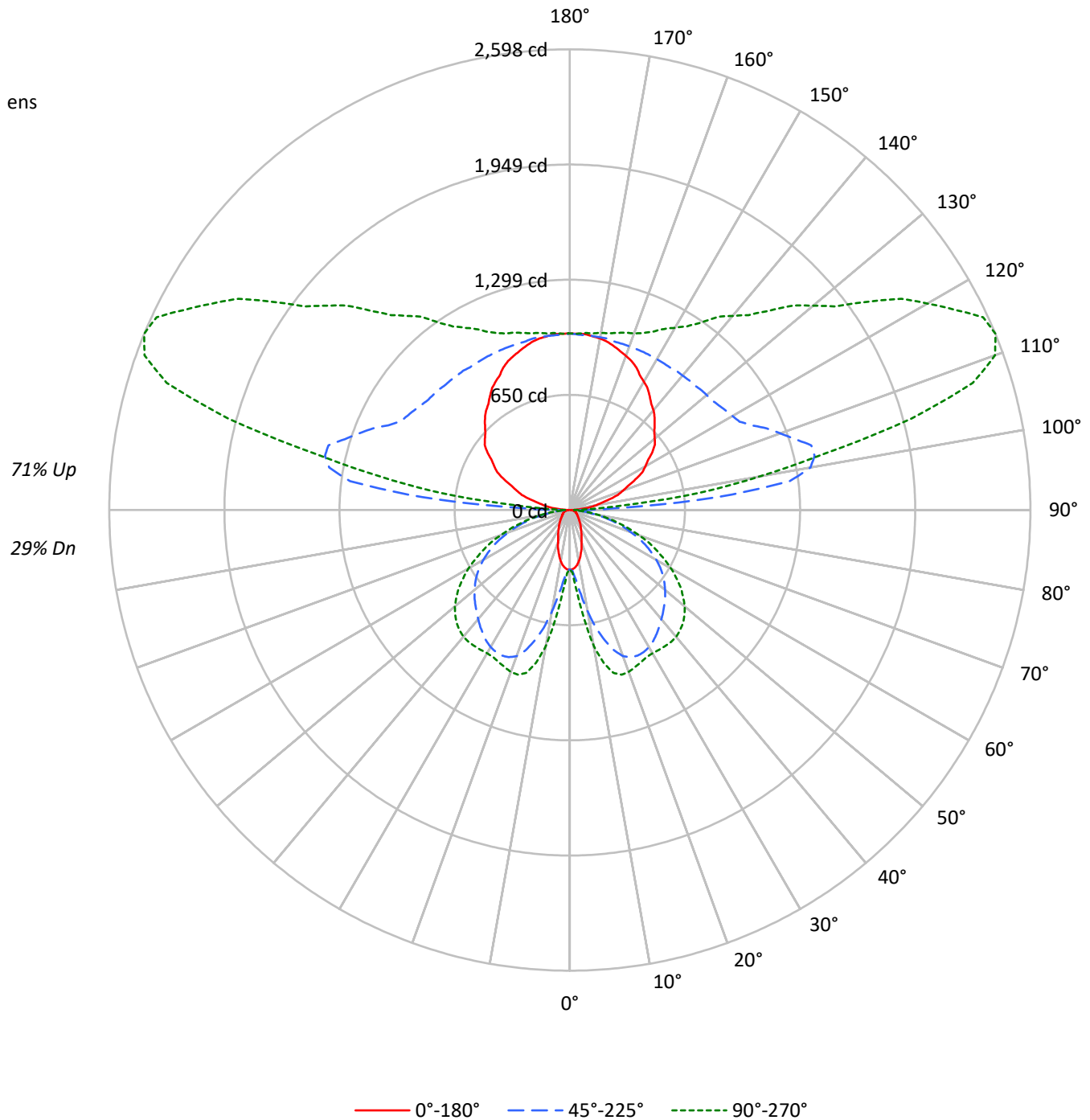
Test Method: LM-79-2019  
Report Number: P937452  
REPORT IS A COMBINATION OF REPORTS P933581 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-100U-050D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9047.4 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 82.4  
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

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### Luminous Intensity Polar Plot



TEST NUMBER: P937452

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**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 | 50 | 30 | 10 | 0  |  |   |
| RCR | 0  | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 29 |  |   |
|     | 1  | 93  | 88  | 84  | 81  | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 46 | 45 | 44 | 32 | 31 | 30 | 30 | 30 | 30 | 30 | 30 | 23 |  |   |
|     | 2  | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 59 | 54 | 50 | 47 | 40 | 38 | 36 | 28 | 26 | 25 | 25 | 25 | 25 | 25 | 25 | 19 |  |   |
|     | 3  | 76  | 67  | 60  | 54  | 68 | 60 | 54 | 49 | 47 | 43 | 39 | 35 | 32 | 30 | 24 | 22 | 21 | 21 | 21 | 21 | 21 | 21 | 16 |  |   |
|     | 4  | 70  | 59  | 51  | 45  | 62 | 53 | 46 | 41 | 42 | 37 | 33 | 31 | 28 | 25 | 21 | 19 | 18 | 18 | 18 | 18 | 18 | 18 | 13 |  |   |
|     | 5  | 64  | 52  | 44  | 38  | 57 | 47 | 40 | 35 | 37 | 32 | 28 | 28 | 24 | 21 | 19 | 17 | 15 | 15 | 15 | 15 | 15 | 15 | 11 |  |   |
|     | 6  | 58  | 47  | 39  | 33  | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 25 | 21 | 18 | 17 | 15 | 13 | 13 | 13 | 13 | 13 | 13 | 10 |  |   |
|     | 7  | 54  | 42  | 34  | 28  | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 22 | 19 | 16 | 15 | 13 | 11 | 11 | 11 | 11 | 11 | 11 | 8  |  |   |
|     | 8  | 50  | 38  | 30  | 25  | 44 | 34 | 27 | 23 | 27 | 22 | 18 | 20 | 17 | 14 | 14 | 12 | 10 | 10 | 10 | 10 | 10 | 10 | 7  |  |   |
|     | 9  | 46  | 34  | 27  | 22  | 41 | 31 | 24 | 20 | 24 | 20 | 16 | 18 | 15 | 12 | 13 | 11 | 9  | 9  | 9  | 9  | 9  | 9  | 7  |  |   |
|     | 10 | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 18 | 14 | 17 | 14 | 11 | 12 | 10 | 8  | 8  | 8  | 8  | 8  | 8  | 6  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1554 | 1554 | 1554 |
| 5°  | 1518 | 1796 | 2089 |
| 10° | 1377 | 2619 | 3463 |
| 15° | 1170 | 3421 | 4182 |
| 20° | 953  | 3964 | 4262 |
| 25° | 795  | 4148 | 4175 |
| 30° | 670  | 4175 | 4168 |
| 35° | 592  | 4105 | 4275 |
| 40° | 517  | 4015 | 4386 |
| 45° | 468  | 3949 | 4404 |
| 50° | 429  | 3890 | 4331 |
| 55° | 411  | 3803 | 4139 |
| 60° | 421  | 3636 | 3835 |
| 65° | 438  | 3382 | 3419 |
| 70° | 467  | 2949 | 2889 |
| 75° | 517  | 2405 | 2254 |
| 80° | 564  | 1667 | 1519 |
| 85° | 503  | 884  | 778  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4404 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.3   | 0.5       |
| 10°-20°   | 192.0  | 2.1       |
| 20°-30°   | 335.9  | 3.7       |
| 30°-40°   | 432.4  | 4.8       |
| 40°-50°   | 483.0  | 5.3       |
| 50°-60°   | 462.6  | 5.1       |
| 60°-70°   | 366.6  | 4.1       |
| 70°-80°   | 215.6  | 2.4       |
| 80°-90°   | 63.7   | 0.7       |
| 90°-100°  | 485.2  | 5.4       |
| 100°-110° | 1275.5 | 14.1      |
| 110°-120° | 1322.6 | 14.6      |
| 120°-130° | 1060.9 | 11.7      |
| 130°-140° | 832.4  | 9.2       |
| 140°-150° | 638.9  | 7.1       |
| 150°-160° | 460.1  | 5.1       |
| 160°-170° | 281.5  | 3.1       |
| 170°-180° | 95.1   | 1.1       |
| 0°-30°    | 571.3  | 6.3       |
| 0°-40°    | 1003.7 | 11.1      |
| 0°-60°    | 1949.2 | 21.5      |
| 0°-90°    | 2595.1 | 28.7      |
| 90°-120°  | 3083.3 | 34.1      |
| 90°-150°  | 5615.6 | 62.1      |
| 90°-180°  | 6452.0 | 71.3      |
| 0°-180°   | 9047.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 335 | 335   | 335  | 335   | 335  |      |
| 5°   | 326 | 350   | 394  | 446   | 462  | 30   |
| 15°  | 244 | 451   | 760  | 922   | 951  | 68   |
| 25°  | 156 | 512   | 906  | 946   | 947  | 72   |
| 35°  | 106 | 489   | 853  | 902   | 937  | 66   |
| 45°  | 72  | 390   | 754  | 864   | 903  | 56   |
| 55°  | 52  | 248   | 640  | 743   | 764  | 47   |
| 65°  | 41  | 131   | 475  | 534   | 542  | 41   |
| 75°  | 30  | 81    | 261  | 286   | 288  | 32   |
| 85°  | 11  | 25    | 65   | 71    | 72   | 11   |
| 90°  | 7   | 19    | 51   | 25    | 25   | 6    |
| 95°  | 64  | 251   | 836  | 431   | 293  | 71   |
| 105° | 230 | 348   | 1410 | 2141  | 1997 | 244  |
| 115° | 408 | 496   | 1130 | 2253  | 2572 | 403  |
| 125° | 568 | 637   | 1027 | 1736  | 2048 | 504  |
| 135° | 677 | 745   | 995  | 1402  | 1589 | 524  |
| 145° | 785 | 835   | 983  | 1196  | 1289 | 492  |
| 155° | 887 | 912   | 983  | 1079  | 1110 | 408  |
| 165° | 957 | 970   | 983  | 1021  | 1034 | 270  |
| 175° | 995 | 995   | 989  | 1002  | 1002 | 94   |
| 180° | 995 | 995   | 995  | 995   | 995  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 334.9 | 334.9 | 334.9 | 334.9 | 334.9 | 334.9  | 334.9  | 334.9  | 334.9  | 334.9  | 334.9  |
| 2.5°   | 334.9 | 334.9 | 337.1 | 338.2 | 340.3 | 341.4  | 343.6  | 345.8  | 352.2  | 353.2  | 355.4  |
| 5°     | 326.3 | 330.7 | 344.6 | 350.0 | 365.1 | 385.6  | 394.2  | 408.2  | 437.3  | 445.9  | 451.3  |
| 7.5°   | 313.4 | 323.1 | 357.6 | 366.2 | 403.9 | 457.7  | 480.4  | 510.5  | 556.8  | 579.4  | 597.8  |
| 10°    | 292.9 | 313.4 | 374.8 | 395.3 | 456.7 | 538.5  | 580.6  | 622.6  | 692.5  | 723.7  | 735.6  |
| 12.5°  | 270.4 | 303.7 | 393.1 | 421.1 | 509.4 | 629.0  | 679.7  | 725.9  | 805.6  | 847.6  | 854.1  |
| 15°    | 244.5 | 289.7 | 410.3 | 451.3 | 565.5 | 704.4  | 760.4  | 817.5  | 891.8  | 921.9  | 929.5  |
| 17.5°  | 221.9 | 279.0 | 426.6 | 469.6 | 608.5 | 772.2  | 829.3  | 876.7  | 937.0  | 957.5  | 962.9  |
| 20°    | 193.8 | 261.7 | 437.3 | 493.3 | 653.8 | 821.8  | 876.7  | 913.3  | 954.3  | 967.2  | 969.4  |
| 22.5°  | 173.4 | 243.4 | 443.7 | 501.9 | 683.9 | 852.0  | 898.2  | 927.4  | 955.3  | 959.7  | 960.7  |
| 25°    | 156.2 | 222.9 | 442.7 | 511.6 | 709.8 | 870.3  | 905.8  | 927.4  | 943.5  | 945.7  | 945.7  |
| 27.5°  | 140.0 | 200.3 | 438.4 | 513.8 | 729.2 | 874.5  | 902.6  | 917.7  | 925.2  | 929.5  | 929.5  |
| 30°    | 126.0 | 178.8 | 427.6 | 509.4 | 737.8 | 870.3  | 892.9  | 900.4  | 908.0  | 914.5  | 917.7  |
| 32.5°  | 115.2 | 158.4 | 411.5 | 500.8 | 738.8 | 859.5  | 875.7  | 879.9  | 890.7  | 905.8  | 911.2  |
| 35°    | 105.5 | 137.9 | 393.1 | 488.9 | 732.4 | 842.3  | 853.0  | 857.4  | 878.9  | 901.5  | 909.0  |
| 37.5°  | 95.9  | 122.8 | 369.5 | 468.6 | 722.7 | 821.8  | 829.3  | 836.9  | 870.3  | 897.2  | 905.8  |
| 40°    | 86.2  | 109.9 | 341.4 | 445.9 | 707.6 | 797.1  | 803.5  | 815.4  | 859.5  | 890.7  | 899.4  |
| 42.5°  | 78.6  | 99.1  | 311.2 | 422.2 | 688.3 | 769.0  | 778.7  | 795.9  | 846.6  | 879.9  | 889.6  |
| 45°    | 72.2  | 88.3  | 279.0 | 389.9 | 663.4 | 740.0  | 753.9  | 777.6  | 831.5  | 863.8  | 872.4  |
| 47.5°  | 65.7  | 80.8  | 245.6 | 356.5 | 636.5 | 710.9  | 729.2  | 756.1  | 811.0  | 842.3  | 849.8  |
| 50°    | 60.3  | 73.2  | 212.2 | 321.0 | 607.5 | 679.7  | 701.2  | 729.2  | 785.2  | 814.2  | 824.0  |
| 52.5°  | 56.0  | 66.8  | 180.9 | 285.4 | 574.1 | 647.3  | 672.1  | 701.2  | 753.9  | 782.0  | 788.4  |
| 55°    | 51.7  | 61.4  | 154.0 | 247.7 | 539.6 | 612.8  | 639.8  | 667.8  | 719.5  | 743.2  | 747.5  |
| 57.5°  | 49.5  | 57.1  | 131.4 | 212.2 | 503.0 | 574.1  | 604.3  | 630.1  | 678.5  | 696.8  | 701.2  |
| 60°    | 46.3  | 53.9  | 114.2 | 182.0 | 463.2 | 537.4  | 563.3  | 589.2  | 630.1  | 645.1  | 648.4  |
| 62.5°  | 43.1  | 51.7  | 101.3 | 153.0 | 422.2 | 494.4  | 520.2  | 544.0  | 578.4  | 589.2  | 593.5  |
| 65°    | 41.0  | 49.5  | 91.5  | 131.4 | 380.2 | 449.1  | 475.0  | 495.5  | 523.5  | 534.2  | 536.4  |
| 67.5°  | 38.8  | 47.4  | 84.0  | 113.1 | 338.2 | 403.9  | 423.3  | 442.7  | 464.2  | 475.0  | 476.0  |
| 70°    | 35.6  | 45.2  | 77.6  | 100.1 | 295.1 | 352.2  | 368.3  | 388.8  | 406.1  | 411.5  | 414.7  |
| 72.5°  | 33.4  | 42.0  | 73.2  | 90.5  | 250.9 | 302.7  | 317.7  | 329.6  | 344.6  | 350.0  | 350.0  |
| 75°    | 30.2  | 37.7  | 68.9  | 80.8  | 205.7 | 247.7  | 260.7  | 272.5  | 284.3  | 286.5  | 283.3  |
| 77.5°  | 26.9  | 33.4  | 59.3  | 67.9  | 160.5 | 196.0  | 206.8  | 213.3  | 222.9  | 225.1  | 226.2  |
| 80°    | 22.6  | 29.1  | 46.3  | 52.8  | 116.4 | 144.3  | 151.8  | 157.2  | 165.9  | 165.9  | 168.0  |
| 82.5°  | 17.3  | 22.6  | 33.4  | 37.7  | 78.6  | 99.1   | 105.5  | 108.8  | 114.2  | 114.2  | 114.2  |
| 85°    | 10.8  | 14.0  | 21.5  | 24.7  | 47.4  | 60.3   | 64.6   | 65.7   | 70.0   | 71.1   | 71.1   |
| 87.5°  | 5.4   | 7.5   | 14.0  | 15.1  | 24.7  | 31.2   | 31.2   | 33.4   | 33.4   | 32.3   | 31.2   |
| 90°    | 6.7   | 12.0  | 17.3  | 18.7  | 29.4  | 43.6   | 50.7   | 45.1   | 33.8   | 25.4   | 25.4   |
| 92.5°  | 26.7  | 72.2  | 117.6 | 129.0 | 181.2 | 251.0  | 285.9  | 250.5  | 180.0  | 127.0  | 121.9  |
| 95°    | 64.2  | 147.3 | 230.4 | 251.2 | 446.0 | 705.8  | 835.7  | 745.7  | 565.8  | 430.9  | 415.6  |
| 97.5°  | 110.9 | 184.2 | 257.6 | 275.9 | 600.8 | 1033.9 | 1250.5 | 1193.7 | 1080.0 | 994.7  | 965.6  |
| 100°   | 146.9 | 213.4 | 280.0 | 296.6 | 657.1 | 1137.8 | 1378.1 | 1382.3 | 1390.6 | 1396.8 | 1362.1 |
| 102.5° | 177.7 | 239.7 | 301.8 | 317.3 | 682.9 | 1170.4 | 1414.2 | 1486.6 | 1631.5 | 1740.2 | 1710.5 |
| 105°   | 229.8 | 282.3 | 334.9 | 348.0 | 702.1 | 1174.1 | 1410.1 | 1572.5 | 1897.3 | 2141.0 | 2125.0 |
| 107.5° | 283.2 | 332.2 | 381.2 | 393.5 | 705.7 | 1121.9 | 1330.0 | 1556.5 | 2009.6 | 2349.3 | 2353.2 |
| 110°   | 319.3 | 363.5 | 407.8 | 418.8 | 700.3 | 1075.5 | 1263.2 | 1516.5 | 2022.9 | 2402.8 | 2419.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 354.7 | 396.8 | 439.1 | 449.6 | 700.5 | 1035.1 | 1202.4 | 1461.6 | 1980.0 | 2368.8 | 2394.3 |
| 115°   | 408.2 | 447.0 | 486.0 | 495.7 | 707.0 | 988.7  | 1129.6 | 1379.3 | 1878.7 | 2253.2 | 2288.6 |
| 117.5° | 460.9 | 496.3 | 531.6 | 540.4 | 720.1 | 959.7  | 1079.5 | 1304.8 | 1755.5 | 2093.5 | 2132.8 |
| 120°   | 491.7 | 524.9 | 558.2 | 566.4 | 730.8 | 949.9  | 1059.5 | 1265.4 | 1677.1 | 1986.0 | 2024.1 |
| 122.5° | 521.7 | 555.3 | 588.8 | 597.2 | 746.1 | 944.7  | 1044.1 | 1229.5 | 1600.3 | 1878.5 | 1916.1 |
| 125°   | 567.8 | 598.4 | 629.0 | 636.6 | 766.9 | 940.6  | 1027.4 | 1184.9 | 1499.9 | 1736.2 | 1770.9 |
| 127.5° | 605.2 | 636.1 | 667.0 | 674.7 | 787.6 | 938.1  | 1013.4 | 1148.6 | 1419.1 | 1621.9 | 1651.1 |
| 130°   | 625.2 | 658.5 | 691.7 | 700.1 | 802.7 | 939.6  | 1008.0 | 1128.4 | 1369.2 | 1549.8 | 1576.8 |
| 132.5° | 645.9 | 679.2 | 712.4 | 720.8 | 815.0 | 940.6  | 1003.3 | 1111.1 | 1326.6 | 1488.3 | 1512.5 |
| 135°   | 676.7 | 707.0 | 737.3 | 744.9 | 828.4 | 939.7  | 995.3  | 1085.6 | 1266.1 | 1401.5 | 1422.4 |
| 137.5° | 708.1 | 738.0 | 768.1 | 775.5 | 848.4 | 945.5  | 994.0  | 1070.2 | 1222.9 | 1337.3 | 1354.4 |
| 140°   | 734.1 | 761.7 | 789.3 | 796.3 | 860.6 | 946.4  | 989.3  | 1055.2 | 1187.1 | 1285.9 | 1301.9 |
| 142.5° | 754.2 | 779.7 | 805.2 | 811.6 | 870.9 | 949.8  | 989.3  | 1047.2 | 1163.0 | 1249.9 | 1263.6 |
| 145°   | 784.9 | 807.2 | 829.5 | 835.0 | 884.3 | 949.9  | 982.6  | 1030.0 | 1124.7 | 1195.7 | 1206.1 |
| 147.5° | 815.6 | 837.3 | 859.0 | 864.4 | 903.9 | 956.4  | 982.6  | 1019.9 | 1094.4 | 1150.3 | 1158.9 |
| 150°   | 835.7 | 855.3 | 874.9 | 879.8 | 914.1 | 959.7  | 982.6  | 1014.1 | 1077.1 | 1124.3 | 1131.3 |
| 152.5° | 856.4 | 871.3 | 886.1 | 889.8 | 920.7 | 962.0  | 982.6  | 1009.5 | 1063.3 | 1103.6 | 1108.9 |
| 155°   | 887.1 | 898.1 | 909.1 | 911.8 | 935.4 | 966.9  | 982.6  | 1004.0 | 1046.8 | 1078.8 | 1082.3 |
| 157.5° | 909.8 | 920.5 | 931.2 | 933.9 | 950.1 | 971.8  | 982.6  | 999.3  | 1032.5 | 1057.5 | 1059.9 |
| 160°   | 925.2 | 933.6 | 941.8 | 943.9 | 956.9 | 974.0  | 982.6  | 996.9  | 1025.4 | 1046.8 | 1048.2 |
| 162.5° | 940.6 | 946.8 | 953.1 | 954.6 | 963.9 | 976.4  | 982.6  | 994.7  | 1018.7 | 1036.8 | 1038.1 |
| 165°   | 957.3 | 962.9 | 968.5 | 969.9 | 974.2 | 979.8  | 982.6  | 991.2  | 1008.5 | 1021.4 | 1022.9 |
| 167.5° | 972.6 | 975.2 | 978.0 | 978.6 | 982.1 | 986.9  | 989.3  | 994.9  | 1006.2 | 1014.7 | 1015.2 |
| 170°   | 982.6 | 985.3 | 988.0 | 988.7 | 988.9 | 989.1  | 989.3  | 994.9  | 1006.2 | 1014.7 | 1014.7 |
| 172.5° | 988.0 | 988.6 | 989.1 | 989.3 | 989.3 | 989.3  | 989.3  | 993.8  | 1002.7 | 1009.4 | 1008.9 |
| 175°   | 995.3 | 995.3 | 995.3 | 995.3 | 993.3 | 990.7  | 989.3  | 992.1  | 997.7  | 1002.0 | 1002.0 |
| 177.5° | 995.3 | 995.3 | 995.3 | 995.3 | 993.8 | 991.7  | 990.7  | 992.9  | 997.3  | 1000.7 | 1000.1 |
| 180°   | 995.3 | 995.3 | 995.3 | 995.3 | 995.3 | 995.3  | 995.3  | 995.3  | 995.3  | 995.3  | 995.3  |



TEST NUMBER: P937452

CATALOG NUMBER: SQ4-FB-100U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 334.9  | 334.9  |
| 2.5°   | 357.6  | 355.4  |
| 5°     | 459.9  | 462.0  |
| 7.5°   | 619.3  | 618.2  |
| 10°    | 770.1  | 779.8  |
| 12.5°  | 879.9  | 882.1  |
| 15°    | 946.7  | 951.1  |
| 17.5°  | 972.6  | 973.6  |
| 20°    | 973.6  | 971.5  |
| 22.5°  | 961.8  | 959.7  |
| 25°    | 947.8  | 946.7  |
| 27.5°  | 934.9  | 936.0  |
| 30°    | 929.5  | 932.8  |
| 32.5°  | 929.5  | 934.9  |
| 35°    | 931.6  | 937.0  |
| 37.5°  | 930.6  | 937.0  |
| 40°    | 926.3  | 933.8  |
| 42.5°  | 914.5  | 919.8  |
| 45°    | 896.1  | 902.6  |
| 47.5°  | 872.4  | 876.7  |
| 50°    | 842.3  | 846.6  |
| 52.5°  | 804.5  | 805.6  |
| 55°    | 759.3  | 763.7  |
| 57.5°  | 710.9  | 711.9  |
| 60°    | 657.0  | 660.2  |
| 62.5°  | 599.9  | 599.9  |
| 65°    | 539.6  | 541.8  |
| 67.5°  | 477.1  | 482.5  |
| 70°    | 413.6  | 414.7  |
| 72.5°  | 351.2  | 351.2  |
| 75°    | 286.5  | 287.6  |
| 77.5°  | 225.1  | 225.1  |
| 80°    | 166.9  | 168.0  |
| 82.5°  | 115.2  | 117.4  |
| 85°    | 72.2   | 72.2   |
| 87.5°  | 33.4   | 30.2   |
| 90°    | 25.4   | 25.4   |
| 92.5°  | 101.7  | 81.5   |
| 95°    | 354.4  | 293.3  |
| 97.5°  | 849.2  | 732.8  |
| 100°   | 1223.5 | 1084.9 |
| 102.5° | 1591.7 | 1472.9 |
| 105°   | 2061.1 | 1997.3 |
| 107.5° | 2368.7 | 2384.1 |
| 110°   | 2485.9 | 2552.4 |





TEST NUMBER: P937452

CATALOG NUMBER: SQ4-FB-100U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 2496.4 | 2598.5 |
| 115°   | 2430.2 | 2571.8 |
| 117.5° | 2289.8 | 2446.9 |
| 120°   | 2176.8 | 2329.3 |
| 122.5° | 2066.6 | 2217.1 |
| 125°   | 1909.5 | 2048.1 |
| 127.5° | 1768.1 | 1885.1 |
| 130°   | 1684.9 | 1792.9 |
| 132.5° | 1609.3 | 1706.1 |
| 135°   | 1505.8 | 1589.2 |
| 137.5° | 1422.7 | 1491.0 |
| 140°   | 1365.7 | 1429.5 |
| 142.5° | 1318.5 | 1373.5 |
| 145°   | 1247.7 | 1289.2 |
| 147.5° | 1193.3 | 1227.8 |
| 150°   | 1159.1 | 1187.1 |
| 152.5° | 1129.9 | 1150.9 |
| 155°   | 1096.3 | 1110.2 |
| 157.5° | 1069.7 | 1079.5 |
| 160°   | 1053.9 | 1059.5 |
| 162.5° | 1043.4 | 1048.8 |
| 165°   | 1028.5 | 1034.1 |
| 167.5° | 1017.6 | 1020.1 |
| 170°   | 1014.7 | 1014.7 |
| 172.5° | 1006.8 | 1004.7 |
| 175°   | 1002.0 | 1002.0 |
| 177.5° | 997.7  | 995.3  |
| 180°   | 995.3  | 995.3  |



TEST NUMBER: P937452  
 CATALOG NUMBER: SQ4-FB-100U-050D-930-1D-UNV-STD-W-8

**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 | 0.16             | 0.88  | 1.28  | 1.99  | 3.54  | 13.34          | 14.06 | 14.46 | 15.17 | 16.72 |
|                 | 3H   | 0.86             | 1.50  | 1.98  | 2.62  | 4.18  | 15.17          | 15.81 | 16.29 | 16.94 | 18.50 |
|                 | 4H   | 1.15             | 1.76  | 2.28  | 2.88  | 4.45  | 15.81          | 16.42 | 16.94 | 17.54 | 19.11 |
|                 | 6H   | 1.39             | 1.96  | 2.53  | 3.08  | 4.66  | 16.23          | 16.79 | 17.37 | 17.92 | 19.50 |
|                 | 8H   | 1.46             | 1.99  | 2.60  | 3.13  | 4.70  | 16.35          | 16.88 | 17.49 | 18.02 | 19.59 |
|                 | 12H  | 1.47             | 1.98  | 2.62  | 3.11  | 4.71  | 16.41          | 16.92 | 17.56 | 18.05 | 19.65 |
| 4H              | 2H   | 7.36             | 7.97  | 8.50  | 9.09  | 10.66 | 13.60          | 14.21 | 14.74 | 15.33 | 16.90 |
|                 | 3H   | 8.92             | 9.43  | 10.06 | 10.57 | 12.15 | 15.63          | 16.14 | 16.78 | 17.29 | 18.87 |
|                 | 4H   | 9.00             | 9.47  | 10.15 | 10.61 | 12.21 | 16.39          | 16.86 | 17.54 | 18.00 | 19.60 |
|                 | 6H   | 9.01             | 9.41  | 10.16 | 10.57 | 12.16 | 16.92          | 17.33 | 18.08 | 18.49 | 20.07 |
|                 | 8H   | 8.98             | 9.36  | 10.13 | 10.51 | 12.11 | 17.08          | 17.46 | 18.24 | 18.61 | 20.21 |
|                 | 12H  | 8.93             | 9.27  | 10.10 | 10.43 | 12.04 | 17.17          | 17.51 | 18.34 | 18.67 | 20.28 |
| 8H              | 4H   | 10.44            | 10.81 | 11.59 | 11.96 | 13.57 | 16.44          | 16.82 | 17.59 | 17.97 | 19.57 |
|                 | 6H   | 10.67            | 10.98 | 11.85 | 12.18 | 13.78 | 17.06          | 17.37 | 18.24 | 18.57 | 20.17 |
|                 | 8H   | 10.69            | 10.96 | 11.87 | 12.13 | 13.75 | 17.28          | 17.55 | 18.46 | 18.72 | 20.35 |
|                 | 12H  | 10.65            | 10.89 | 11.83 | 12.06 | 13.71 | 17.42          | 17.66 | 18.60 | 18.83 | 20.48 |
| 12H             | 4H   | 10.57            | 10.91 | 11.74 | 12.08 | 13.69 | 16.38          | 16.73 | 17.56 | 17.89 | 19.50 |
|                 | 6H   | 10.93            | 11.20 | 12.11 | 12.37 | 13.99 | 17.04          | 17.31 | 18.22 | 18.49 | 20.11 |
|                 | 8H   | 10.99            | 11.23 | 12.18 | 12.40 | 14.05 | 17.27          | 17.50 | 18.45 | 18.67 | 20.33 |