

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: P937500

Luminaire Tested: SQ4-FB-100U-050D-B35-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

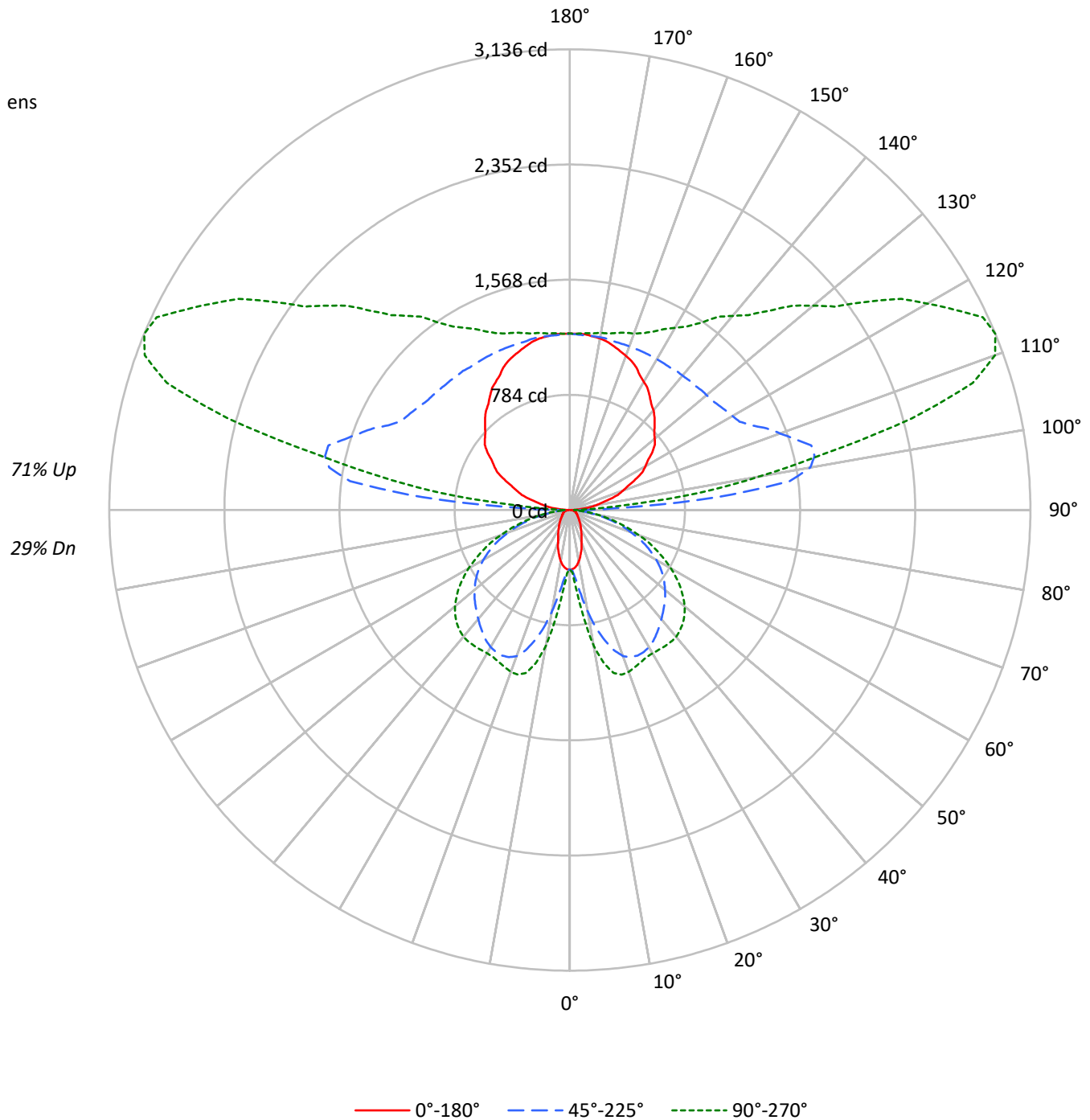
Test Method: LM-79-2019  
Report Number: P937500  
REPORT IS A COMBINATION OF REPORTS P933581 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-100U-050D-B35-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10917.8 lumens  
Efficiency: N/A  
Efficacy: 132.5 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

TEST NUMBER: P937500  
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### Luminous Intensity Polar Plot





TEST NUMBER: P937500

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

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

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1875 | 1875 | 1875 |
| 5°  | 1832 | 2168 | 2521 |
| 10° | 1662 | 3160 | 4179 |
| 15° | 1413 | 4128 | 5046 |
| 20° | 1150 | 4784 | 5143 |
| 25° | 959  | 5006 | 5039 |
| 30° | 808  | 5037 | 5029 |
| 35° | 715  | 4954 | 5159 |
| 40° | 623  | 4845 | 5294 |
| 45° | 564  | 4765 | 5314 |
| 50° | 518  | 4694 | 5226 |
| 55° | 496  | 4589 | 4994 |
| 60° | 508  | 4388 | 4628 |
| 65° | 528  | 4081 | 4126 |
| 70° | 563  | 3559 | 3486 |
| 75° | 623  | 2902 | 2720 |
| 80° | 681  | 2012 | 1832 |
| 85° | 606  | 1068 | 938  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5314 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 52.3    | 0.5       |
| 10°-20°   | 231.7   | 2.1       |
| 20°-30°   | 405.3   | 3.7       |
| 30°-40°   | 521.8   | 4.8       |
| 40°-50°   | 582.8   | 5.3       |
| 50°-60°   | 558.2   | 5.1       |
| 60°-70°   | 442.4   | 4.1       |
| 70°-80°   | 260.1   | 2.4       |
| 80°-90°   | 76.9    | 0.7       |
| 90°-100°  | 585.5   | 5.4       |
| 100°-110° | 1539.2  | 14.1      |
| 110°-120° | 1596.0  | 14.6      |
| 120°-130° | 1280.2  | 11.7      |
| 130°-140° | 1004.5  | 9.2       |
| 140°-150° | 771.0   | 7.1       |
| 150°-160° | 555.2   | 5.1       |
| 160°-170° | 339.7   | 3.1       |
| 170°-180° | 114.8   | 1.1       |
| 0°-30°    | 689.4   | 6.3       |
| 0°-40°    | 1211.2  | 11.1      |
| 0°-60°    | 2352.2  | 21.5      |
| 0°-90°    | 3131.6  | 28.7      |
| 90°-120°  | 3720.7  | 34.1      |
| 90°-150°  | 6776.4  | 62.1      |
| 90°-180°  | 7786.0  | 71.3      |
| 0°-180°   | 10917.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 404  | 404   | 404  | 404   | 404  |      |
| 5°   | 394  | 422   | 476  | 538   | 558  | 36   |
| 15°  | 295  | 545   | 918  | 1112  | 1148 | 82   |
| 25°  | 188  | 617   | 1093 | 1141  | 1142 | 87   |
| 35°  | 127  | 590   | 1029 | 1088  | 1131 | 80   |
| 45°  | 87   | 470   | 910  | 1042  | 1089 | 67   |
| 55°  | 62   | 299   | 772  | 897   | 922  | 57   |
| 65°  | 49   | 158   | 573  | 645   | 654  | 49   |
| 75°  | 36   | 98    | 314  | 346   | 347  | 38   |
| 85°  | 13   | 30    | 78   | 86    | 87   | 14   |
| 90°  | 8    | 23    | 61   | 31    | 31   | 8    |
| 95°  | 77   | 303   | 1008 | 520   | 354  | 86   |
| 105° | 277  | 420   | 1702 | 2584  | 2410 | 294  |
| 115° | 492  | 598   | 1363 | 2719  | 3104 | 486  |
| 125° | 685  | 768   | 1240 | 2095  | 2472 | 608  |
| 135° | 817  | 899   | 1201 | 1691  | 1918 | 632  |
| 145° | 947  | 1008  | 1186 | 1443  | 1556 | 593  |
| 155° | 1070 | 1100  | 1186 | 1302  | 1340 | 492  |
| 165° | 1155 | 1170  | 1186 | 1233  | 1248 | 326  |
| 175° | 1201 | 1201  | 1194 | 1209  | 1209 | 114  |
| 180° | 1201 | 1201  | 1201 | 1201  | 1201 |      |



TEST NUMBER: P937500

CATALOG NUMBER: SQ4-FB-100U-050D-B35-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 404.2 | 404.2 | 404.2 | 404.2 | 404.2 | 404.2  | 404.2  | 404.2  | 404.2  | 404.2  | 404.2  |
| 2.5°   | 404.2 | 404.2 | 406.8 | 408.1 | 410.7 | 412.0  | 414.6  | 417.3  | 425.0  | 426.3  | 428.9  |
| 5°     | 393.8 | 399.0 | 415.9 | 422.4 | 440.6 | 465.3  | 475.7  | 492.5  | 527.7  | 538.1  | 544.6  |
| 7.5°   | 378.2 | 389.9 | 431.5 | 441.9 | 487.4 | 552.3  | 579.7  | 616.1  | 671.9  | 699.2  | 721.3  |
| 10°    | 353.5 | 378.2 | 452.3 | 477.0 | 551.1 | 649.8  | 700.6  | 751.3  | 835.7  | 873.4  | 887.7  |
| 12.5°  | 326.3 | 366.5 | 474.4 | 508.1 | 614.7 | 759.0  | 820.2  | 876.0  | 972.2  | 1022.9 | 1030.6 |
| 15°    | 295.1 | 349.6 | 495.2 | 544.6 | 682.4 | 850.0  | 917.6  | 986.4  | 1076.2 | 1112.5 | 1121.6 |
| 17.5°  | 267.7 | 336.6 | 514.7 | 566.7 | 734.3 | 931.9  | 1000.8 | 1058.0 | 1130.7 | 1155.4 | 1161.9 |
| 20°    | 233.9 | 315.8 | 527.7 | 595.3 | 789.0 | 991.7  | 1058.0 | 1102.1 | 1151.6 | 1167.2 | 1169.8 |
| 22.5°  | 209.2 | 293.7 | 535.5 | 605.6 | 825.3 | 1028.1 | 1083.9 | 1119.1 | 1152.8 | 1158.1 | 1159.3 |
| 25°    | 188.5 | 269.0 | 534.2 | 617.3 | 856.5 | 1050.2 | 1093.0 | 1119.1 | 1138.6 | 1141.2 | 1141.2 |
| 27.5°  | 169.0 | 241.8 | 529.0 | 620.0 | 879.9 | 1055.3 | 1089.2 | 1107.4 | 1116.5 | 1121.6 | 1121.6 |
| 30°    | 152.0 | 215.8 | 516.0 | 614.7 | 890.3 | 1050.2 | 1077.4 | 1086.5 | 1095.6 | 1103.5 | 1107.4 |
| 32.5°  | 139.1 | 191.1 | 496.5 | 604.4 | 891.6 | 1037.1 | 1056.7 | 1061.8 | 1074.8 | 1093.0 | 1099.5 |
| 35°    | 127.3 | 166.4 | 474.4 | 590.0 | 883.8 | 1016.4 | 1029.4 | 1034.6 | 1060.6 | 1087.9 | 1096.9 |
| 37.5°  | 115.7 | 148.2 | 445.8 | 565.4 | 872.1 | 991.7  | 1000.8 | 1009.9 | 1050.2 | 1082.7 | 1093.0 |
| 40°    | 104.0 | 132.6 | 412.0 | 538.1 | 853.9 | 961.8  | 969.6  | 983.9  | 1037.1 | 1074.8 | 1085.3 |
| 42.5°  | 94.9  | 119.6 | 375.6 | 509.5 | 830.5 | 928.0  | 939.7  | 960.5  | 1021.6 | 1061.8 | 1073.6 |
| 45°    | 87.1  | 106.6 | 336.6 | 470.4 | 800.6 | 892.9  | 909.8  | 938.4  | 1003.4 | 1042.4 | 1052.7 |
| 47.5°  | 79.3  | 97.5  | 296.3 | 430.2 | 768.1 | 857.9  | 879.9  | 912.4  | 978.7  | 1016.4 | 1025.5 |
| 50°    | 72.8  | 88.4  | 256.0 | 387.3 | 733.0 | 820.2  | 846.1  | 879.9  | 947.5  | 982.6  | 994.3  |
| 52.5°  | 67.5  | 80.6  | 218.3 | 344.4 | 692.7 | 781.1  | 811.1  | 846.1  | 909.8  | 943.6  | 951.4  |
| 55°    | 62.4  | 74.1  | 185.9 | 298.9 | 651.2 | 739.5  | 772.0  | 805.8  | 868.2  | 896.8  | 902.0  |
| 57.5°  | 59.8  | 68.9  | 158.5 | 256.0 | 607.0 | 692.7  | 729.2  | 760.4  | 818.8  | 840.9  | 846.1  |
| 60°    | 55.9  | 65.0  | 137.8 | 219.7 | 558.9 | 648.6  | 679.8  | 711.0  | 760.4  | 778.5  | 782.5  |
| 62.5°  | 52.0  | 62.4  | 122.2 | 184.6 | 509.5 | 596.6  | 627.7  | 656.4  | 698.0  | 711.0  | 716.2  |
| 65°    | 49.4  | 59.8  | 110.5 | 158.5 | 458.8 | 542.0  | 573.2  | 597.9  | 631.7  | 644.7  | 647.3  |
| 67.5°  | 46.8  | 57.2  | 101.4 | 136.4 | 408.1 | 487.4  | 510.8  | 534.2  | 560.2  | 573.2  | 574.4  |
| 70°    | 42.9  | 54.6  | 93.6  | 120.8 | 356.1 | 425.0  | 444.5  | 469.2  | 490.0  | 496.5  | 500.4  |
| 72.5°  | 40.3  | 50.7  | 88.4  | 109.2 | 302.8 | 365.2  | 383.4  | 397.7  | 415.9  | 422.4  | 422.4  |
| 75°    | 36.4  | 45.4  | 83.1  | 97.5  | 248.3 | 298.9  | 314.5  | 328.8  | 343.1  | 345.7  | 341.9  |
| 77.5°  | 32.5  | 40.3  | 71.5  | 81.9  | 193.7 | 236.5  | 249.5  | 257.4  | 269.0  | 271.6  | 273.0  |
| 80°    | 27.3  | 35.1  | 55.9  | 63.7  | 140.4 | 174.1  | 183.2  | 189.7  | 200.2  | 200.2  | 202.7  |
| 82.5°  | 20.8  | 27.3  | 40.3  | 45.4  | 94.9  | 119.6  | 127.3  | 131.3  | 137.8  | 137.8  | 137.8  |
| 85°    | 13.0  | 16.9  | 26.0  | 29.8  | 57.2  | 72.8   | 78.0   | 79.3   | 84.5   | 85.8   | 85.8   |
| 87.5°  | 6.5   | 9.1   | 16.9  | 18.2  | 29.8  | 37.7   | 37.7   | 40.3   | 40.3   | 39.0   | 37.7   |
| 90°    | 8.0   | 14.5  | 20.9  | 22.6  | 35.5  | 52.6   | 61.2   | 54.5   | 40.8   | 30.6   | 30.6   |
| 92.5°  | 32.3  | 87.1  | 142.0 | 155.6 | 218.7 | 302.9  | 345.0  | 302.3  | 217.2  | 153.2  | 147.1  |
| 95°    | 77.4  | 177.7 | 278.0 | 303.1 | 538.2 | 851.7  | 1008.4 | 899.9  | 682.8  | 520.0  | 501.6  |
| 97.5°  | 133.8 | 222.3 | 310.9 | 332.9 | 725.0 | 1247.7 | 1509.0 | 1440.4 | 1303.2 | 1200.3 | 1165.2 |
| 100°   | 177.3 | 257.6 | 337.9 | 357.9 | 792.9 | 1373.0 | 1663.0 | 1668.0 | 1678.0 | 1685.6 | 1643.7 |
| 102.5° | 214.4 | 289.2 | 364.2 | 382.9 | 824.0 | 1412.3 | 1706.5 | 1793.9 | 1968.8 | 2099.9 | 2064.1 |
| 105°   | 277.3 | 340.7 | 404.1 | 420.0 | 847.2 | 1416.9 | 1701.7 | 1897.6 | 2289.6 | 2583.5 | 2564.3 |
| 107.5° | 341.8 | 400.9 | 460.0 | 474.8 | 851.6 | 1353.8 | 1605.0 | 1878.3 | 2425.0 | 2835.0 | 2839.7 |
| 110°   | 385.3 | 438.7 | 492.1 | 505.4 | 845.1 | 1297.9 | 1524.3 | 1830.0 | 2441.1 | 2899.5 | 2919.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 428.0  | 478.9  | 529.8  | 542.5  | 845.4  | 1249.1 | 1451.0 | 1763.8 | 2389.3 | 2858.5 | 2889.3 |
| 115°   | 492.5  | 539.4  | 586.4  | 598.2  | 853.1  | 1193.1 | 1363.1 | 1664.5 | 2267.1 | 2719.0 | 2761.7 |
| 117.5° | 556.2  | 598.8  | 641.5  | 652.1  | 869.0  | 1158.1 | 1302.6 | 1574.5 | 2118.4 | 2526.3 | 2573.7 |
| 120°   | 593.3  | 633.4  | 673.6  | 683.5  | 881.9  | 1146.3 | 1278.5 | 1527.0 | 2023.9 | 2396.5 | 2442.6 |
| 122.5° | 629.6  | 670.1  | 710.6  | 720.6  | 900.4  | 1140.0 | 1259.9 | 1483.6 | 1931.1 | 2266.8 | 2312.2 |
| 125°   | 685.2  | 722.1  | 759.0  | 768.2  | 925.4  | 1135.0 | 1239.7 | 1429.9 | 1810.0 | 2095.1 | 2136.9 |
| 127.5° | 730.3  | 767.5  | 804.9  | 814.2  | 950.4  | 1132.1 | 1222.9 | 1386.1 | 1712.4 | 1957.2 | 1992.5 |
| 130°   | 754.5  | 794.6  | 834.7  | 844.8  | 968.6  | 1133.8 | 1216.4 | 1361.6 | 1652.2 | 1870.2 | 1902.7 |
| 132.5° | 779.5  | 819.6  | 859.7  | 869.8  | 983.4  | 1135.0 | 1210.8 | 1340.8 | 1600.9 | 1795.9 | 1825.1 |
| 135°   | 816.6  | 853.1  | 889.7  | 898.8  | 999.6  | 1133.9 | 1201.1 | 1310.0 | 1527.8 | 1691.2 | 1716.4 |
| 137.5° | 854.5  | 890.6  | 926.8  | 935.9  | 1023.7 | 1140.9 | 1199.4 | 1291.5 | 1475.7 | 1613.8 | 1634.4 |
| 140°   | 885.9  | 919.2  | 952.5  | 960.9  | 1038.5 | 1142.1 | 1193.8 | 1273.4 | 1432.5 | 1551.8 | 1571.0 |
| 142.5° | 910.1  | 940.9  | 971.7  | 979.4  | 1050.9 | 1146.1 | 1193.8 | 1263.7 | 1403.4 | 1508.2 | 1524.8 |
| 145°   | 947.2  | 974.0  | 1001.0 | 1007.7 | 1067.1 | 1146.2 | 1185.8 | 1242.9 | 1357.2 | 1442.9 | 1455.4 |
| 147.5° | 984.2  | 1010.4 | 1036.5 | 1043.1 | 1090.7 | 1154.1 | 1185.8 | 1230.7 | 1320.7 | 1388.1 | 1398.5 |
| 150°   | 1008.4 | 1032.1 | 1055.7 | 1061.6 | 1103.0 | 1158.1 | 1185.8 | 1223.8 | 1299.7 | 1356.7 | 1365.1 |
| 152.5° | 1033.4 | 1051.4 | 1069.3 | 1073.7 | 1111.1 | 1160.9 | 1185.8 | 1218.2 | 1283.1 | 1331.7 | 1338.1 |
| 155°   | 1070.5 | 1083.7 | 1097.0 | 1100.3 | 1128.8 | 1166.8 | 1185.8 | 1211.5 | 1263.2 | 1301.9 | 1306.0 |
| 157.5° | 1097.9 | 1110.8 | 1123.7 | 1126.9 | 1146.5 | 1172.7 | 1185.8 | 1205.8 | 1245.9 | 1276.1 | 1279.0 |
| 160°   | 1116.5 | 1126.6 | 1136.5 | 1139.1 | 1154.7 | 1175.4 | 1185.8 | 1203.0 | 1237.4 | 1263.2 | 1264.9 |
| 162.5° | 1135.0 | 1142.5 | 1150.1 | 1151.9 | 1163.2 | 1178.2 | 1185.8 | 1200.3 | 1229.3 | 1251.1 | 1252.7 |
| 165°   | 1155.1 | 1161.9 | 1168.7 | 1170.5 | 1175.6 | 1182.4 | 1185.8 | 1196.1 | 1217.0 | 1232.6 | 1234.3 |
| 167.5° | 1173.7 | 1176.9 | 1180.1 | 1180.9 | 1185.2 | 1190.9 | 1193.8 | 1200.6 | 1214.3 | 1224.4 | 1225.1 |
| 170°   | 1185.8 | 1189.0 | 1192.3 | 1193.0 | 1193.3 | 1193.6 | 1193.8 | 1200.6 | 1214.3 | 1224.4 | 1224.4 |
| 172.5° | 1192.3 | 1192.9 | 1193.6 | 1193.8 | 1193.8 | 1193.8 | 1193.8 | 1199.2 | 1210.0 | 1218.0 | 1217.5 |
| 175°   | 1201.1 | 1201.1 | 1201.1 | 1201.1 | 1198.7 | 1195.5 | 1193.8 | 1197.2 | 1204.0 | 1209.1 | 1209.1 |
| 177.5° | 1201.1 | 1201.1 | 1201.1 | 1201.1 | 1199.2 | 1196.7 | 1195.5 | 1198.2 | 1203.5 | 1207.6 | 1206.9 |
| 180°   | 1201.1 | 1201.1 | 1201.1 | 1201.1 | 1201.1 | 1201.1 | 1201.1 | 1201.1 | 1201.1 | 1201.1 | 1201.1 |



TEST NUMBER: P937500

CATALOG NUMBER: SQ4-FB-100U-050D-B35-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 404.2  | 404.2  |
| 2.5°   | 431.5  | 428.9  |
| 5°     | 554.9  | 557.6  |
| 7.5°   | 747.3  | 746.0  |
| 10°    | 929.3  | 941.0  |
| 12.5°  | 1061.8 | 1064.4 |
| 15°    | 1142.5 | 1147.7 |
| 17.5°  | 1173.7 | 1174.9 |
| 20°    | 1174.9 | 1172.3 |
| 22.5°  | 1160.7 | 1158.1 |
| 25°    | 1143.7 | 1142.5 |
| 27.5°  | 1128.1 | 1129.5 |
| 30°    | 1121.6 | 1125.6 |
| 32.5°  | 1121.6 | 1128.1 |
| 35°    | 1124.2 | 1130.7 |
| 37.5°  | 1123.0 | 1130.7 |
| 40°    | 1117.7 | 1126.9 |
| 42.5°  | 1103.5 | 1110.0 |
| 45°    | 1081.4 | 1089.2 |
| 47.5°  | 1052.7 | 1058.0 |
| 50°    | 1016.4 | 1021.6 |
| 52.5°  | 970.8  | 972.2  |
| 55°    | 916.3  | 921.5  |
| 57.5°  | 857.9  | 859.1  |
| 60°    | 792.8  | 796.7  |
| 62.5°  | 723.9  | 723.9  |
| 65°    | 651.2  | 653.8  |
| 67.5°  | 575.8  | 582.3  |
| 70°    | 499.1  | 500.4  |
| 72.5°  | 423.7  | 423.7  |
| 75°    | 345.7  | 347.0  |
| 77.5°  | 271.6  | 271.6  |
| 80°    | 201.5  | 202.7  |
| 82.5°  | 139.1  | 141.7  |
| 85°    | 87.1   | 87.1   |
| 87.5°  | 40.3   | 36.4   |
| 90°    | 30.6   | 30.6   |
| 92.5°  | 122.8  | 98.4   |
| 95°    | 427.7  | 353.9  |
| 97.5°  | 1024.7 | 884.3  |
| 100°   | 1476.5 | 1309.1 |
| 102.5° | 1920.8 | 1777.4 |
| 105°   | 2487.2 | 2410.2 |
| 107.5° | 2858.4 | 2877.0 |
| 110°   | 2999.8 | 3080.1 |





TEST NUMBER: P937500

CATALOG NUMBER: SQ4-FB-100U-050D-B35-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 3012.4 | 3135.7 |
| 115°   | 2932.6 | 3103.5 |
| 117.5° | 2763.2 | 2952.7 |
| 120°   | 2626.8 | 2810.9 |
| 122.5° | 2493.8 | 2675.4 |
| 125°   | 2304.2 | 2471.5 |
| 127.5° | 2133.6 | 2274.8 |
| 130°   | 2033.2 | 2163.6 |
| 132.5° | 1942.0 | 2058.7 |
| 135°   | 1817.1 | 1917.7 |
| 137.5° | 1716.8 | 1799.2 |
| 140°   | 1648.0 | 1725.0 |
| 142.5° | 1591.1 | 1657.4 |
| 145°   | 1505.6 | 1555.7 |
| 147.5° | 1440.0 | 1481.6 |
| 150°   | 1398.8 | 1432.5 |
| 152.5° | 1363.5 | 1388.9 |
| 155°   | 1322.9 | 1339.7 |
| 157.5° | 1290.8 | 1302.6 |
| 160°   | 1271.7 | 1278.5 |
| 162.5° | 1259.1 | 1265.6 |
| 165°   | 1241.1 | 1247.9 |
| 167.5° | 1228.0 | 1230.9 |
| 170°   | 1224.4 | 1224.4 |
| 172.5° | 1214.9 | 1212.4 |
| 175°   | 1209.1 | 1209.1 |
| 177.5° | 1204.0 | 1201.1 |
| 180°   | 1201.1 | 1201.1 |



TEST NUMBER: P937500  
 CATALOG NUMBER: SQ4-FB-100U-050D-B35-1D-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 | 0.81             | 1.53  | 1.93  | 2.64  | 4.19  | 14.00          | 14.71 | 15.11 | 15.83 | 17.37 |
|                 | 3H   | 1.51             | 2.15  | 2.63  | 3.27  | 4.83  | 15.82          | 16.47 | 16.95 | 17.59 | 19.15 |
|                 | 4H   | 1.80             | 2.41  | 2.93  | 3.53  | 5.10  | 16.46          | 17.07 | 17.60 | 18.20 | 19.76 |
|                 | 6H   | 2.04             | 2.61  | 3.19  | 3.73  | 5.31  | 16.88          | 17.45 | 18.03 | 18.57 | 20.15 |
|                 | 8H   | 2.11             | 2.64  | 3.25  | 3.78  | 5.35  | 17.00          | 17.54 | 18.15 | 18.68 | 20.25 |
|                 | 12H  | 2.12             | 2.63  | 3.27  | 3.76  | 5.36  | 17.06          | 17.57 | 18.21 | 18.71 | 20.30 |
| 4H              | 2H   | 8.01             | 8.63  | 9.16  | 9.75  | 11.31 | 14.25          | 14.86 | 15.39 | 15.99 | 17.55 |
|                 | 3H   | 9.57             | 10.08 | 10.71 | 11.23 | 12.81 | 16.28          | 16.79 | 17.43 | 17.94 | 19.52 |
|                 | 4H   | 9.66             | 10.13 | 10.81 | 11.26 | 12.86 | 17.04          | 17.51 | 18.19 | 18.65 | 20.25 |
|                 | 6H   | 9.66             | 10.06 | 10.81 | 11.22 | 12.81 | 17.57          | 17.98 | 18.73 | 19.14 | 20.73 |
|                 | 8H   | 9.63             | 10.01 | 10.79 | 11.16 | 12.76 | 17.73          | 18.11 | 18.89 | 19.26 | 20.87 |
|                 | 12H  | 9.58             | 9.92  | 10.75 | 11.09 | 12.70 | 17.82          | 18.16 | 18.99 | 19.32 | 20.93 |
| 8H              | 4H   | 11.09            | 11.46 | 12.24 | 12.62 | 14.22 | 17.09          | 17.47 | 18.25 | 18.62 | 20.23 |
|                 | 6H   | 11.32            | 11.63 | 12.50 | 12.83 | 14.43 | 17.71          | 18.03 | 18.89 | 19.22 | 20.82 |
|                 | 8H   | 11.34            | 11.61 | 12.52 | 12.78 | 14.41 | 17.93          | 18.20 | 19.11 | 19.38 | 21.00 |
|                 | 12H  | 11.30            | 11.54 | 12.49 | 12.71 | 14.36 | 18.07          | 18.31 | 19.26 | 19.48 | 21.13 |
| 12H             | 4H   | 11.22            | 11.57 | 12.40 | 12.73 | 14.34 | 17.04          | 17.38 | 18.21 | 18.54 | 20.15 |
|                 | 6H   | 11.58            | 11.85 | 12.76 | 13.02 | 14.65 | 17.70          | 17.97 | 18.88 | 19.14 | 20.76 |
|                 | 8H   | 11.64            | 11.88 | 12.83 | 13.05 | 14.71 | 17.92          | 18.16 | 19.10 | 19.33 | 20.98 |