

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: P936414

Luminaire Tested: SQ4-FB-025U-100D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

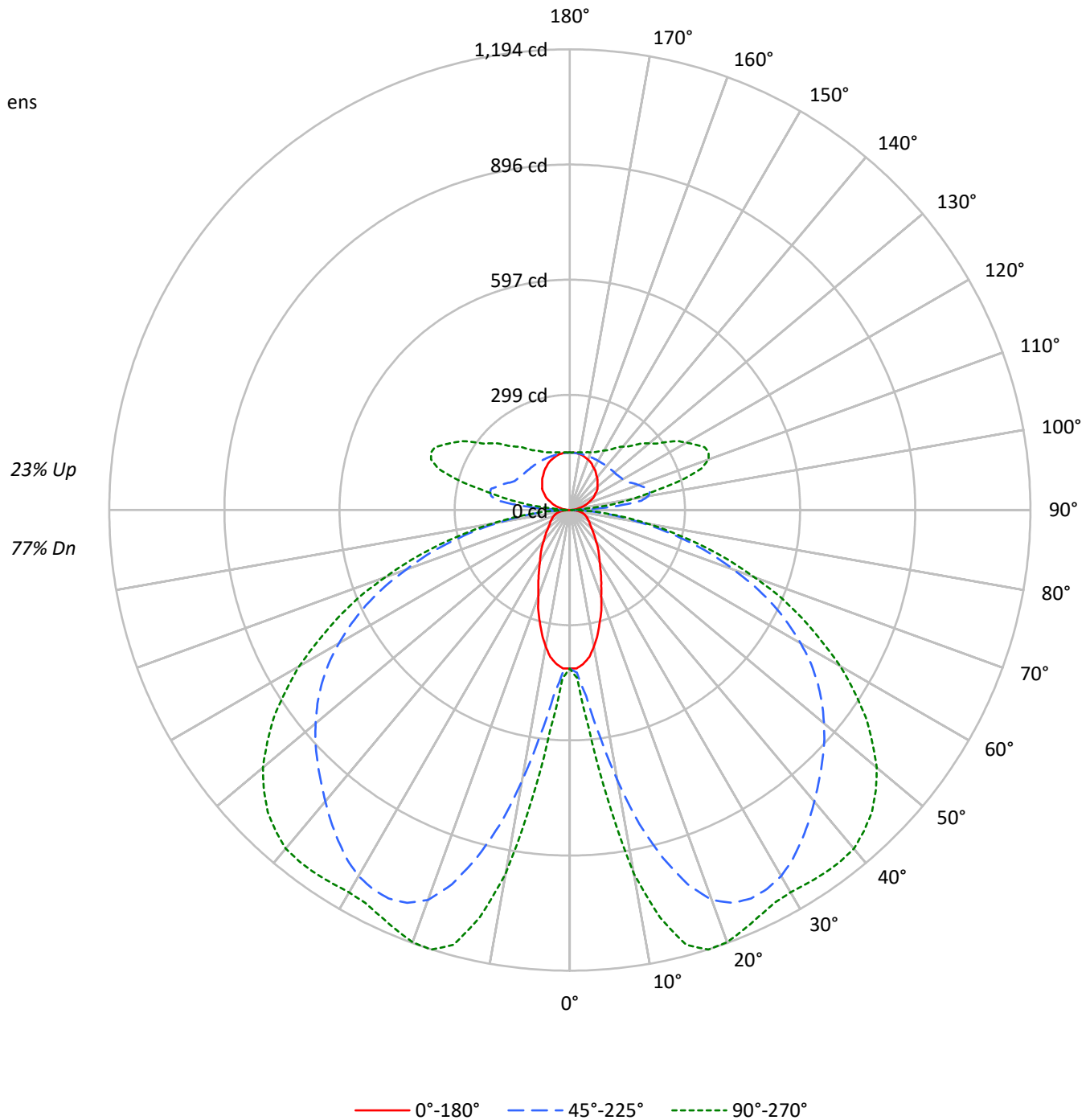
Test Method: LM-79-2019  
Report Number: P936414  
REPORT IS A COMBINATION OF REPORTS P933439 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4147.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 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: Semi-Direct  
  
Input Watts (W): 38.8  
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: P936414  
CATALOG NUMBER: SQ4-FB-025U-100D-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P936414

CATALOG NUMBER: SQ4-FB-025U-100D-835-1D-UNV-STD-W-4

**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   | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 98 | 98 | 98 | 89 | 89 | 89 | 81 | 81 | 81 | 77 |    |    |    | 77 |
| 1   | 103 | 98  | 94  | 90  | 98  | 94  | 90  | 86  | 85 | 82 | 79 | 77 | 75 | 73 | 70 | 68 | 66 |    |    |    |    | 63 |
| 2   | 93  | 85  | 78  | 72  | 88  | 81  | 75  | 69  | 73 | 68 | 64 | 67 | 63 | 59 | 61 | 57 | 55 |    |    |    |    | 51 |
| 3   | 84  | 74  | 65  | 59  | 80  | 70  | 63  | 57  | 64 | 58 | 53 | 58 | 53 | 49 | 53 | 49 | 45 |    |    |    |    | 42 |
| 4   | 77  | 65  | 56  | 49  | 73  | 62  | 54  | 47  | 56 | 50 | 44 | 51 | 46 | 41 | 47 | 42 | 38 |    |    |    |    | 35 |
| 5   | 70  | 57  | 48  | 42  | 66  | 55  | 46  | 40  | 50 | 43 | 38 | 46 | 40 | 35 | 41 | 37 | 33 |    |    |    |    | 30 |
| 6   | 64  | 51  | 42  | 36  | 61  | 49  | 41  | 35  | 45 | 38 | 32 | 41 | 35 | 30 | 37 | 32 | 28 |    |    |    |    | 26 |
| 7   | 59  | 46  | 37  | 31  | 56  | 44  | 36  | 30  | 40 | 33 | 28 | 37 | 31 | 27 | 34 | 29 | 25 |    |    |    |    | 22 |
| 8   | 55  | 42  | 33  | 27  | 52  | 40  | 32  | 26  | 37 | 30 | 25 | 34 | 28 | 23 | 31 | 26 | 22 |    |    |    |    | 20 |
| 9   | 51  | 38  | 30  | 24  | 49  | 36  | 29  | 23  | 33 | 27 | 22 | 31 | 25 | 21 | 28 | 23 | 20 |    |    |    |    | 17 |
| 10  | 48  | 35  | 27  | 21  | 45  | 33  | 26  | 21  | 31 | 24 | 20 | 28 | 23 | 19 | 26 | 21 | 17 |    |    |    |    | 16 |

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

|     | 0°   | 45°   | 90°   |
|-----|------|-------|-------|
| 0°  | 3813 | 3813  | 3813  |
| 5°  | 3721 | 4404  | 5126  |
| 10° | 3372 | 6415  | 8497  |
| 15° | 2862 | 8375  | 10260 |
| 20° | 2327 | 9698  | 10456 |
| 25° | 1939 | 10140 | 10245 |
| 30° | 1633 | 10197 | 10225 |
| 35° | 1442 | 10020 | 10490 |
| 40° | 1254 | 9791  | 10763 |
| 45° | 1133 | 9621  | 10805 |
| 50° | 1037 | 9467  | 10626 |
| 55° | 990  | 9245  | 10155 |
| 60° | 1010 | 8827  | 9411  |
| 65° | 1046 | 8197  | 8389  |
| 70° | 1107 | 7134  | 7087  |
| 75° | 1213 | 5803  | 5531  |
| 80° | 1296 | 4009  | 3726  |
| 85° | 1093 | 2117  | 1907  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10805 cd/sqm



TEST NUMBER: P936414

CATALOG NUMBER: SQ4-FB-025U-100D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.2   | 1.3       |
| 10°-20°   | 235.6  | 5.7       |
| 20°-30°   | 412.1  | 9.9       |
| 30°-40°   | 530.5  | 12.8      |
| 40°-50°   | 592.5  | 14.3      |
| 50°-60°   | 567.5  | 13.7      |
| 60°-70°   | 449.7  | 10.8      |
| 70°-80°   | 264.5  | 6.4       |
| 80°-90°   | 74.0   | 1.8       |
| 90°-100°  | 72.7   | 1.8       |
| 100°-110° | 191.3  | 4.6       |
| 110°-120° | 198.3  | 4.8       |
| 120°-130° | 159.0  | 3.8       |
| 130°-140° | 124.8  | 3.0       |
| 140°-150° | 95.8   | 2.3       |
| 150°-160° | 69.0   | 1.7       |
| 160°-170° | 42.2   | 1.0       |
| 170°-180° | 14.3   | 0.3       |
| 0°-30°    | 700.8  | 16.9      |
| 0°-40°    | 1231.3 | 29.7      |
| 0°-60°    | 2391.3 | 57.7      |
| 0°-90°    | 3179.6 | 76.7      |
| 90°-120°  | 462.3  | 11.1      |
| 90°-150°  | 842.0  | 20.3      |
| 90°-180°  | 967.0  | 23.3      |
| 0°-180°   | 4147.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 411 | 411   | 411  | 411   | 411  |      |
| 5°   | 400 | 429   | 484  | 547   | 567  | 37   |
| 15°  | 300 | 554   | 933  | 1131  | 1167 | 83   |
| 25°  | 192 | 628   | 1111 | 1160  | 1162 | 88   |
| 35°  | 130 | 600   | 1046 | 1106  | 1150 | 81   |
| 45°  | 88  | 478   | 925  | 1060  | 1107 | 68   |
| 55°  | 63  | 304   | 785  | 912   | 937  | 58   |
| 65°  | 50  | 161   | 583  | 655   | 665  | 50   |
| 75°  | 37  | 99    | 320  | 352   | 353  | 39   |
| 85°  | 13  | 30    | 79   | 87    | 88   | 14   |
| 90°  | 1   | 3     | 8    | 4     | 4    | 2    |
| 95°  | 10  | 38    | 125  | 65    | 44   | 11   |
| 105° | 34  | 52    | 211  | 321   | 300  | 37   |
| 115° | 61  | 74    | 169  | 338   | 386  | 60   |
| 125° | 85  | 96    | 154  | 260   | 307  | 76   |
| 135° | 102 | 112   | 149  | 210   | 238  | 79   |
| 145° | 118 | 125   | 147  | 179   | 193  | 74   |
| 155° | 133 | 137   | 147  | 162   | 166  | 61   |
| 165° | 144 | 145   | 147  | 153   | 155  | 40   |
| 175° | 149 | 149   | 148  | 150   | 150  | 14   |
| 180° | 149 | 149   | 149  | 149   | 149  |      |



TEST NUMBER: P936414

CATALOG NUMBER: SQ4-FB-025U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 410.9 | 410.9 | 410.9 | 410.9 | 410.9 | 410.9  | 410.9  | 410.9  | 410.9  | 410.9  | 410.9  |
| 2.5°   | 410.9 | 410.9 | 413.6 | 414.9 | 417.5 | 418.9  | 421.5  | 424.1  | 432.1  | 433.4  | 436.0  |
| 5°     | 400.4 | 405.7 | 422.8 | 429.4 | 447.9 | 473.0  | 483.6  | 500.8  | 536.5  | 547.0  | 553.6  |
| 7.5°   | 384.5 | 396.4 | 438.7 | 449.3 | 495.5 | 561.6  | 589.3  | 626.3  | 683.1  | 710.9  | 733.3  |
| 10°    | 359.4 | 384.5 | 459.8 | 484.9 | 560.2 | 660.7  | 712.2  | 763.7  | 849.6  | 887.9  | 902.5  |
| 12.5°  | 331.7 | 372.6 | 482.3 | 516.6 | 625.0 | 771.7  | 833.8  | 890.6  | 988.4  | 1039.9 | 1047.8 |
| 15°    | 299.9 | 355.4 | 503.4 | 553.6 | 693.7 | 864.2  | 932.9  | 1002.9 | 1094.1 | 1131.1 | 1140.3 |
| 17.5°  | 272.2 | 342.2 | 523.2 | 576.1 | 746.6 | 947.4  | 1017.4 | 1075.6 | 1149.6 | 1174.7 | 1181.3 |
| 20°    | 237.8 | 321.1 | 536.5 | 605.2 | 802.1 | 1008.2 | 1075.6 | 1120.5 | 1170.7 | 1186.6 | 1189.2 |
| 22.5°  | 212.7 | 298.6 | 544.4 | 615.7 | 839.0 | 1045.2 | 1102.0 | 1137.7 | 1172.0 | 1177.3 | 1178.6 |
| 25°    | 191.6 | 273.5 | 543.1 | 627.6 | 870.8 | 1067.6 | 1111.2 | 1137.7 | 1157.5 | 1160.1 | 1160.1 |
| 27.5°  | 171.8 | 245.8 | 537.8 | 630.3 | 894.5 | 1072.9 | 1107.3 | 1125.8 | 1135.0 | 1140.3 | 1140.3 |
| 30°    | 154.6 | 219.3 | 524.6 | 625.0 | 905.1 | 1067.6 | 1095.4 | 1104.6 | 1113.9 | 1121.8 | 1125.8 |
| 32.5°  | 141.4 | 194.2 | 504.8 | 614.4 | 906.4 | 1054.4 | 1074.2 | 1079.5 | 1092.7 | 1111.2 | 1117.9 |
| 35°    | 129.5 | 169.1 | 482.3 | 599.9 | 898.5 | 1033.3 | 1046.5 | 1051.8 | 1078.2 | 1106.0 | 1115.2 |
| 37.5°  | 117.6 | 150.6 | 453.2 | 574.8 | 886.6 | 1008.2 | 1017.4 | 1026.7 | 1067.6 | 1100.7 | 1111.2 |
| 40°    | 105.7 | 134.8 | 418.9 | 547.0 | 868.1 | 977.8  | 985.7  | 1000.3 | 1054.4 | 1092.7 | 1103.3 |
| 42.5°  | 96.5  | 121.6 | 381.9 | 518.0 | 844.3 | 943.4  | 955.3  | 976.5  | 1038.6 | 1079.5 | 1091.4 |
| 45°    | 88.5  | 108.3 | 342.2 | 478.3 | 813.9 | 907.8  | 924.9  | 954.0  | 1020.1 | 1059.7 | 1070.3 |
| 47.5°  | 80.6  | 99.1  | 301.3 | 437.4 | 780.9 | 872.1  | 894.5  | 927.6  | 995.0  | 1033.3 | 1042.5 |
| 50°    | 74.0  | 89.9  | 260.3 | 393.8 | 745.2 | 833.8  | 860.2  | 894.5  | 963.3  | 998.9  | 1010.8 |
| 52.5°  | 68.7  | 81.9  | 222.0 | 350.2 | 704.3 | 794.1  | 824.5  | 860.2  | 924.9  | 959.3  | 967.2  |
| 55°    | 63.4  | 75.3  | 189.0 | 303.9 | 662.0 | 751.8  | 784.9  | 819.2  | 882.7  | 911.7  | 917.0  |
| 57.5°  | 60.8  | 70.0  | 161.2 | 260.3 | 617.1 | 704.3  | 741.3  | 773.0  | 832.4  | 854.9  | 860.2  |
| 60°    | 56.8  | 66.1  | 140.1 | 223.3 | 568.2 | 659.3  | 691.1  | 722.8  | 773.0  | 791.5  | 795.4  |
| 62.5°  | 52.9  | 63.4  | 124.2 | 187.6 | 518.0 | 606.5  | 638.2  | 667.3  | 709.6  | 722.8  | 728.1  |
| 65°    | 50.2  | 60.8  | 112.3 | 161.2 | 466.4 | 551.0  | 582.7  | 607.8  | 642.2  | 655.4  | 658.0  |
| 67.5°  | 47.6  | 58.1  | 103.1 | 138.7 | 414.9 | 495.5  | 519.3  | 543.1  | 569.5  | 582.7  | 584.0  |
| 70°    | 43.6  | 55.5  | 95.1  | 122.9 | 362.0 | 432.1  | 451.9  | 477.0  | 498.1  | 504.8  | 508.7  |
| 72.5°  | 41.0  | 51.5  | 89.9  | 111.0 | 307.9 | 371.3  | 389.8  | 404.3  | 422.8  | 429.4  | 429.4  |
| 75°    | 37.0  | 46.2  | 84.6  | 99.1  | 252.4 | 303.9  | 319.8  | 334.3  | 348.8  | 351.5  | 347.5  |
| 77.5°  | 33.0  | 41.0  | 72.7  | 83.2  | 196.9 | 240.5  | 253.7  | 261.6  | 273.5  | 276.2  | 277.5  |
| 80°    | 27.7  | 35.7  | 56.8  | 64.7  | 142.7 | 177.1  | 186.3  | 192.9  | 203.5  | 203.5  | 206.1  |
| 82.5°  | 21.1  | 27.7  | 41.0  | 46.2  | 96.5  | 121.6  | 129.5  | 133.5  | 140.1  | 140.1  | 140.1  |
| 85°    | 13.2  | 17.2  | 26.4  | 30.4  | 58.1  | 74.0   | 79.3   | 80.6   | 85.9   | 87.2   | 87.2   |
| 87.5°  | 6.6   | 9.2   | 17.2  | 18.5  | 30.4  | 38.3   | 38.3   | 41.0   | 41.0   | 39.6   | 38.3   |
| 90°    | 1.0   | 1.8   | 2.6   | 2.8   | 4.4   | 6.5    | 7.6    | 6.8    | 5.1    | 3.8    | 3.8    |
| 92.5°  | 4.0   | 10.8  | 17.6  | 19.3  | 27.2  | 37.7   | 42.9   | 37.6   | 27.0   | 19.0   | 18.2   |
| 95°    | 9.6   | 22.1  | 34.6  | 37.7  | 66.9  | 105.8  | 125.3  | 111.8  | 84.8   | 64.6   | 62.3   |
| 97.5°  | 16.6  | 27.6  | 38.6  | 41.4  | 90.1  | 155.0  | 187.5  | 179.0  | 161.9  | 149.1  | 144.7  |
| 100°   | 22.0  | 32.0  | 42.0  | 44.5  | 98.5  | 170.6  | 206.6  | 207.2  | 208.5  | 209.4  | 204.2  |
| 102.5° | 26.6  | 35.9  | 45.3  | 47.6  | 102.4 | 175.5  | 212.0  | 222.9  | 244.6  | 260.9  | 256.4  |
| 105°   | 34.5  | 42.4  | 50.2  | 52.2  | 105.3 | 176.0  | 211.4  | 235.8  | 284.5  | 321.0  | 318.6  |
| 107.5° | 42.5  | 49.8  | 57.2  | 59.0  | 105.8 | 168.2  | 199.4  | 233.4  | 301.3  | 352.3  | 352.9  |
| 110°   | 47.9  | 54.5  | 61.1  | 62.8  | 105.0 | 161.3  | 189.4  | 227.4  | 303.3  | 360.3  | 362.8  |



TEST NUMBER: P936414

CATALOG NUMBER: SQ4-FB-025U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 53.2  | 59.5  | 65.8  | 67.4  | 105.0 | 155.2 | 180.3 | 219.2 | 296.9 | 355.2 | 359.0 |
| 115°   | 61.2  | 67.0  | 72.8  | 74.3  | 106.0 | 148.3 | 169.4 | 206.8 | 281.7 | 337.8 | 343.1 |
| 117.5° | 69.1  | 74.4  | 79.7  | 81.0  | 108.0 | 143.9 | 161.9 | 195.7 | 263.2 | 313.9 | 319.8 |
| 120°   | 73.7  | 78.7  | 83.7  | 84.9  | 109.5 | 142.4 | 158.8 | 189.7 | 251.5 | 297.8 | 303.5 |
| 122.5° | 78.2  | 83.2  | 88.2  | 89.5  | 111.8 | 141.6 | 156.5 | 184.3 | 239.9 | 281.6 | 287.2 |
| 125°   | 85.1  | 89.7  | 94.3  | 95.5  | 115.0 | 141.0 | 154.0 | 177.6 | 224.9 | 260.3 | 265.5 |
| 127.5° | 90.7  | 95.4  | 100.0 | 101.2 | 118.1 | 140.6 | 151.9 | 172.2 | 212.8 | 243.2 | 247.6 |
| 130°   | 93.7  | 98.7  | 103.7 | 105.0 | 120.4 | 140.9 | 151.1 | 169.2 | 205.3 | 232.4 | 236.4 |
| 132.5° | 96.9  | 101.9 | 106.9 | 108.1 | 122.2 | 141.0 | 150.4 | 166.6 | 198.9 | 223.2 | 226.8 |
| 135°   | 101.5 | 106.0 | 110.6 | 111.7 | 124.2 | 140.9 | 149.2 | 162.7 | 189.8 | 210.1 | 213.2 |
| 137.5° | 106.2 | 110.7 | 115.2 | 116.3 | 127.2 | 141.7 | 149.0 | 160.4 | 183.3 | 200.5 | 203.1 |
| 140°   | 110.1 | 114.2 | 118.4 | 119.4 | 129.0 | 141.9 | 148.3 | 158.2 | 178.0 | 192.8 | 195.2 |
| 142.5° | 113.1 | 116.9 | 120.7 | 121.7 | 130.6 | 142.4 | 148.3 | 157.0 | 174.4 | 187.4 | 189.5 |
| 145°   | 117.7 | 121.0 | 124.4 | 125.2 | 132.6 | 142.4 | 147.3 | 154.4 | 168.6 | 179.3 | 180.9 |
| 147.5° | 122.3 | 125.5 | 128.8 | 129.6 | 135.5 | 143.4 | 147.3 | 152.9 | 164.1 | 172.5 | 173.8 |
| 150°   | 125.3 | 128.2 | 131.2 | 131.9 | 137.0 | 143.9 | 147.3 | 152.0 | 161.5 | 168.6 | 169.6 |
| 152.5° | 128.4 | 130.6 | 132.8 | 133.4 | 138.0 | 144.2 | 147.3 | 151.3 | 159.4 | 165.5 | 166.3 |
| 155°   | 133.0 | 134.6 | 136.3 | 136.7 | 140.2 | 144.9 | 147.3 | 150.5 | 157.0 | 161.8 | 162.3 |
| 157.5° | 136.4 | 138.0 | 139.6 | 140.0 | 142.4 | 145.7 | 147.3 | 149.8 | 154.8 | 158.5 | 158.9 |
| 160°   | 138.7 | 139.9 | 141.2 | 141.5 | 143.4 | 146.0 | 147.3 | 149.4 | 153.7 | 156.9 | 157.1 |
| 162.5° | 141.0 | 141.9 | 142.9 | 143.1 | 144.5 | 146.4 | 147.3 | 149.1 | 152.7 | 155.4 | 155.6 |
| 165°   | 143.5 | 144.3 | 145.2 | 145.4 | 146.0 | 146.9 | 147.3 | 148.6 | 151.2 | 153.1 | 153.3 |
| 167.5° | 145.8 | 146.2 | 146.6 | 146.7 | 147.2 | 147.9 | 148.3 | 149.1 | 150.8 | 152.1 | 152.2 |
| 170°   | 147.3 | 147.7 | 148.1 | 148.2 | 148.2 | 148.3 | 148.3 | 149.1 | 150.8 | 152.1 | 152.1 |
| 172.5° | 148.1 | 148.2 | 148.3 | 148.3 | 148.3 | 148.3 | 148.3 | 149.0 | 150.3 | 151.3 | 151.2 |
| 175°   | 149.2 | 149.2 | 149.2 | 149.2 | 148.9 | 148.5 | 148.3 | 148.7 | 149.6 | 150.2 | 150.2 |
| 177.5° | 149.2 | 149.2 | 149.2 | 149.2 | 149.0 | 148.7 | 148.5 | 148.8 | 149.5 | 150.0 | 149.9 |
| 180°   | 149.2 | 149.2 | 149.2 | 149.2 | 149.2 | 149.2 | 149.2 | 149.2 | 149.2 | 149.2 | 149.2 |



TEST NUMBER: P936414

CATALOG NUMBER: SQ4-FB-025U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 410.9  | 410.9  |
| 2.5°   | 438.7  | 436.0  |
| 5°     | 564.2  | 566.9  |
| 7.5°   | 759.8  | 758.4  |
| 10°    | 944.8  | 956.6  |
| 12.5°  | 1079.5 | 1082.2 |
| 15°    | 1161.5 | 1166.7 |
| 17.5°  | 1193.2 | 1194.5 |
| 20°    | 1194.5 | 1191.8 |
| 22.5°  | 1180.0 | 1177.3 |
| 25°    | 1162.8 | 1161.5 |
| 27.5°  | 1146.9 | 1148.2 |
| 30°    | 1140.3 | 1144.3 |
| 32.5°  | 1140.3 | 1146.9 |
| 35°    | 1143.0 | 1149.6 |
| 37.5°  | 1141.6 | 1149.6 |
| 40°    | 1136.4 | 1145.6 |
| 42.5°  | 1121.8 | 1128.4 |
| 45°    | 1099.4 | 1107.3 |
| 47.5°  | 1070.3 | 1075.6 |
| 50°    | 1033.3 | 1038.6 |
| 52.5°  | 987.0  | 988.4  |
| 55°    | 931.5  | 936.8  |
| 57.5°  | 872.1  | 873.4  |
| 60°    | 806.0  | 810.0  |
| 62.5°  | 736.0  | 736.0  |
| 65°    | 662.0  | 664.6  |
| 67.5°  | 585.4  | 592.0  |
| 70°    | 507.4  | 508.7  |
| 72.5°  | 430.8  | 430.8  |
| 75°    | 351.5  | 352.8  |
| 77.5°  | 276.2  | 276.2  |
| 80°    | 204.8  | 206.1  |
| 82.5°  | 141.4  | 144.0  |
| 85°    | 88.5   | 88.5   |
| 87.5°  | 41.0   | 37.0   |
| 90°    | 3.8    | 3.8    |
| 92.5°  | 15.2   | 12.2   |
| 95°    | 53.2   | 44.0   |
| 97.5°  | 127.3  | 109.9  |
| 100°   | 183.5  | 162.7  |
| 102.5° | 238.6  | 220.8  |
| 105°   | 309.1  | 299.5  |
| 107.5° | 355.2  | 357.5  |
| 110°   | 372.7  | 382.7  |





TEST NUMBER: P936414

CATALOG NUMBER: SQ4-FB-025U-100D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   |
|--------|-------|-------|
| 112.5° | 374.3 | 389.6 |
| 115°   | 364.4 | 385.6 |
| 117.5° | 343.3 | 366.9 |
| 120°   | 326.4 | 349.2 |
| 122.5° | 309.8 | 332.4 |
| 125°   | 286.3 | 307.1 |
| 127.5° | 265.1 | 282.6 |
| 130°   | 252.6 | 268.8 |
| 132.5° | 241.3 | 255.8 |
| 135°   | 225.8 | 238.3 |
| 137.5° | 213.3 | 223.6 |
| 140°   | 204.7 | 214.3 |
| 142.5° | 197.7 | 205.9 |
| 145°   | 187.1 | 193.3 |
| 147.5° | 178.9 | 184.1 |
| 150°   | 173.8 | 178.0 |
| 152.5° | 169.4 | 172.6 |
| 155°   | 164.4 | 166.5 |
| 157.5° | 160.4 | 161.9 |
| 160°   | 158.0 | 158.8 |
| 162.5° | 156.4 | 157.2 |
| 165°   | 154.2 | 155.0 |
| 167.5° | 152.5 | 152.9 |
| 170°   | 152.1 | 152.1 |
| 172.5° | 150.9 | 150.6 |
| 175°   | 150.2 | 150.2 |
| 177.5° | 149.6 | 149.2 |
| 180°   | 149.2 | 149.2 |



TEST NUMBER: P936414  
 CATALOG NUMBER: SQ4-FB-025U-100D-835-1D-UNV-STD-W-4

**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 | 7.77             | 9.01  | 8.45  | 9.71  | 10.54 | 20.91          | 22.14 | 21.59 | 22.85 | 23.68 |
|                 | 3H   | 8.50             | 9.62  | 9.20  | 10.33 | 11.19 | 22.76          | 23.88 | 23.46 | 24.59 | 25.45 |
|                 | 4H   | 8.82             | 9.87  | 9.53  | 10.60 | 11.47 | 23.41          | 24.47 | 24.13 | 25.19 | 26.07 |
|                 | 6H   | 9.09             | 10.06 | 9.82  | 10.80 | 11.69 | 23.85          | 24.83 | 24.58 | 25.56 | 26.45 |
|                 | 8H   | 9.17             | 10.10 | 9.90  | 10.86 | 11.75 | 23.98          | 24.91 | 24.71 | 25.66 | 26.55 |
|                 | 12H  | 9.20             | 10.09 | 9.94  | 10.84 | 11.76 | 24.05          | 24.94 | 24.79 | 25.69 | 26.61 |
| 4H              | 2H   | 15.01            | 16.06 | 15.72 | 16.79 | 17.66 | 21.23          | 22.28 | 21.95 | 23.01 | 23.88 |
|                 | 3H   | 16.61            | 17.49 | 17.34 | 18.26 | 19.15 | 23.29          | 24.18 | 24.02 | 24.94 | 25.83 |
|                 | 4H   | 16.72            | 17.53 | 17.47 | 18.29 | 19.21 | 24.07          | 24.87 | 24.81 | 25.64 | 26.56 |
|                 | 6H   | 16.75            | 17.46 | 17.52 | 18.24 | 19.17 | 24.62          | 25.32 | 25.38 | 26.11 | 27.03 |
|                 | 8H   | 16.74            | 17.40 | 17.51 | 18.18 | 19.12 | 24.78          | 25.44 | 25.55 | 26.22 | 27.16 |
|                 | 12H  | 16.72            | 17.31 | 17.51 | 18.12 | 19.06 | 24.88          | 25.48 | 25.67 | 26.28 | 27.23 |
| 8H              | 4H   | 18.19            | 18.84 | 18.96 | 19.63 | 20.57 | 24.16          | 24.82 | 24.93 | 25.60 | 26.54 |
|                 | 6H   | 18.45            | 18.99 | 19.25 | 19.82 | 20.76 | 24.79          | 25.34 | 25.59 | 26.17 | 27.11 |
|                 | 8H   | 18.47            | 18.96 | 19.28 | 19.78 | 20.74 | 25.01          | 25.50 | 25.82 | 26.32 | 27.28 |
|                 | 12H  | 18.46            | 18.89 | 19.27 | 19.70 | 20.72 | 25.17          | 25.60 | 25.98 | 26.41 | 27.43 |
| 12H             | 4H   | 18.35            | 18.94 | 19.14 | 19.75 | 20.69 | 24.13          | 24.72 | 24.92 | 25.53 | 26.48 |
|                 | 6H   | 18.71            | 19.19 | 19.52 | 20.02 | 20.98 | 24.78          | 25.27 | 25.59 | 26.10 | 27.05 |
|                 | 8H   | 18.79            | 19.22 | 19.61 | 20.04 | 21.06 | 25.02          | 25.45 | 25.84 | 26.27 | 27.28 |