

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: P937495

Luminaire Tested: SQ4-FB-100U-050D-B2750-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937495  
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-B2750-1D-UNV-STD-W-8-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

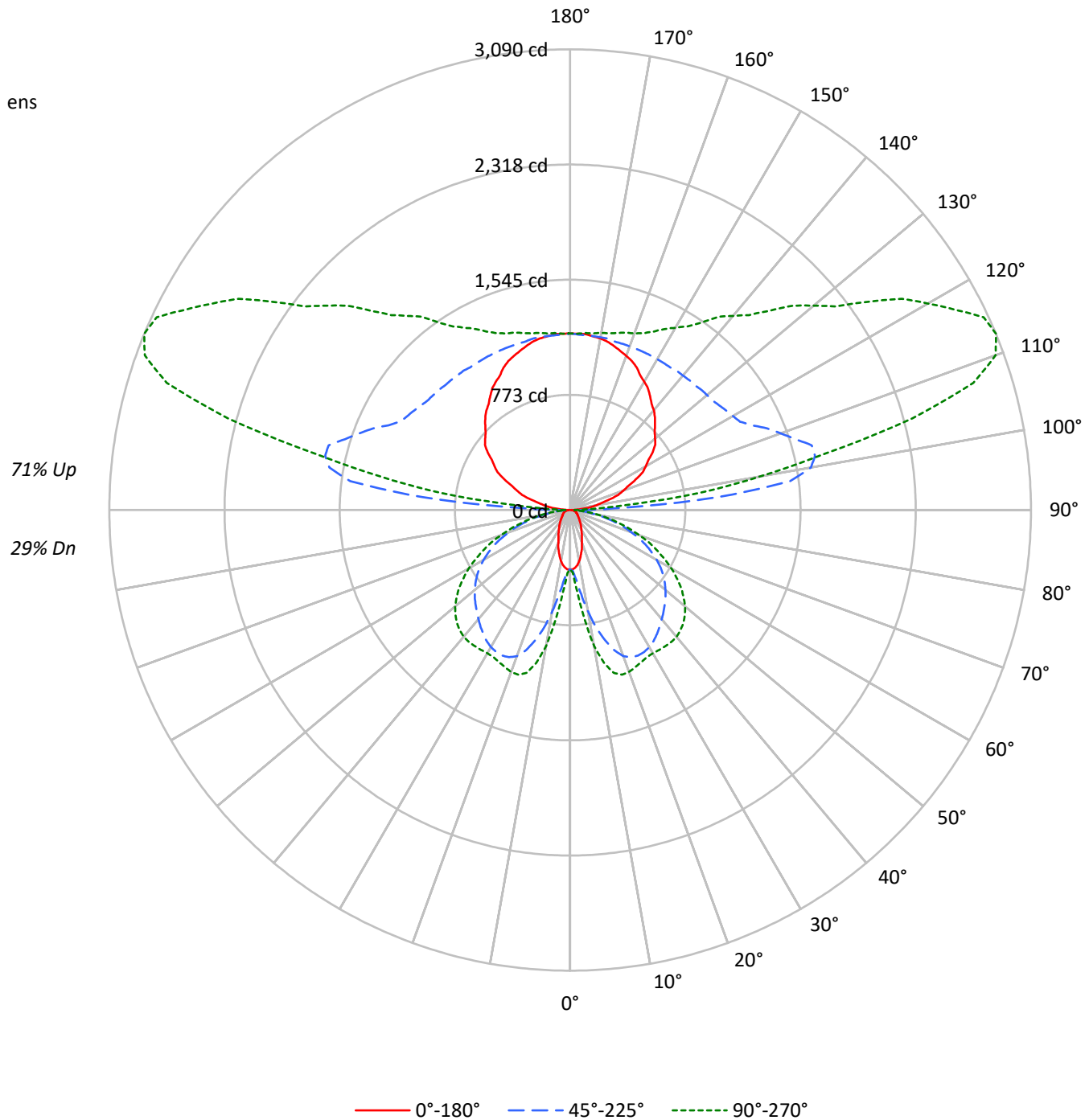
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10760.0 lumens  
Efficiency: N/A  
Efficacy: 130.6 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: P937495  
CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-STD-W-8-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P937495

CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-STD-W-8-4000K

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

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1848 | 1848 | 1848 |
| 5°  | 1806 | 2136 | 2484 |
| 10° | 1638 | 3114 | 4119 |
| 15° | 1392 | 4069 | 4973 |
| 20° | 1133 | 4715 | 5069 |
| 25° | 945  | 4933 | 4965 |
| 30° | 797  | 4965 | 4956 |
| 35° | 705  | 4882 | 5084 |
| 40° | 614  | 4775 | 5217 |
| 45° | 557  | 4696 | 5237 |
| 50° | 510  | 4626 | 5151 |
| 55° | 489  | 4522 | 4922 |
| 60° | 500  | 4324 | 4562 |
| 65° | 521  | 4022 | 4066 |
| 70° | 555  | 3508 | 3436 |
| 75° | 615  | 2860 | 2681 |
| 80° | 671  | 1983 | 1806 |
| 85° | 596  | 1053 | 925  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5237 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 51.5    | 0.5       |
| 10°-20°   | 228.4   | 2.1       |
| 20°-30°   | 399.5   | 3.7       |
| 30°-40°   | 514.2   | 4.8       |
| 40°-50°   | 574.4   | 5.3       |
| 50°-60°   | 550.2   | 5.1       |
| 60°-70°   | 436.0   | 4.1       |
| 70°-80°   | 256.4   | 2.4       |
| 80°-90°   | 75.7    | 0.7       |
| 90°-100°  | 577.0   | 5.4       |
| 100°-110° | 1517.0  | 14.1      |
| 110°-120° | 1573.0  | 14.6      |
| 120°-130° | 1261.7  | 11.7      |
| 130°-140° | 990.0   | 9.2       |
| 140°-150° | 759.9   | 7.1       |
| 150°-160° | 547.2   | 5.1       |
| 160°-170° | 334.8   | 3.1       |
| 170°-180° | 113.1   | 1.1       |
| 0°-30°    | 679.4   | 6.3       |
| 0°-40°    | 1193.6  | 11.1      |
| 0°-60°    | 2318.2  | 21.5      |
| 0°-90°    | 3086.3  | 28.7      |
| 90°-120°  | 3667.0  | 34.1      |
| 90°-150°  | 6678.5  | 62.1      |
| 90°-180°  | 7674.0  | 71.3      |
| 0°-180°   | 10760.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 398  | 398   | 398  | 398   | 398  |      |
| 5°   | 388  | 416   | 469  | 530   | 550  | 36   |
| 15°  | 291  | 537   | 904  | 1096  | 1131 | 81   |
| 25°  | 186  | 608   | 1077 | 1125  | 1126 | 86   |
| 35°  | 126  | 582   | 1014 | 1072  | 1114 | 78   |
| 45°  | 86   | 464   | 897  | 1027  | 1073 | 66   |
| 55°  | 62   | 295   | 761  | 884   | 908  | 56   |
| 65°  | 49   | 156   | 565  | 635   | 644  | 48   |
| 75°  | 36   | 96    | 310  | 341   | 342  | 38   |
| 85°  | 13   | 29    | 77   | 84    | 86   | 14   |
| 90°  | 8    | 22    | 60   | 30    | 30   | 7    |
| 95°  | 76   | 299   | 994  | 512   | 349  | 85   |
| 105° | 273  | 414   | 1677 | 2546  | 2375 | 290  |
| 115° | 485  | 590   | 1343 | 2680  | 3059 | 479  |
| 125° | 675  | 757   | 1222 | 2065  | 2436 | 600  |
| 135° | 805  | 886   | 1184 | 1667  | 1890 | 623  |
| 145° | 934  | 993   | 1169 | 1422  | 1533 | 585  |
| 155° | 1055 | 1084  | 1169 | 1283  | 1320 | 485  |
| 165° | 1138 | 1154  | 1169 | 1215  | 1230 | 321  |
| 175° | 1184 | 1184  | 1177 | 1192  | 1192 | 112  |
| 180° | 1184 | 1184  | 1184 | 1184  | 1184 |      |



TEST NUMBER: P937495

CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 398.3 | 398.3 | 398.3 | 398.3 | 398.3 | 398.3  | 398.3  | 398.3  | 398.3  | 398.3  | 398.3  |
| 2.5°   | 398.3 | 398.3 | 400.9 | 402.2 | 404.7 | 406.1  | 408.6  | 411.2  | 418.9  | 420.1  | 422.7  |
| 5°     | 388.1 | 393.3 | 409.9 | 416.3 | 434.2 | 458.6  | 468.8  | 485.4  | 520.1  | 530.3  | 536.7  |
| 7.5°   | 372.7 | 384.3 | 425.3 | 435.5 | 480.4 | 544.4  | 571.3  | 607.2  | 662.2  | 689.1  | 710.9  |
| 10°    | 348.4 | 372.7 | 445.8 | 470.1 | 543.1 | 640.4  | 690.5  | 740.4  | 823.6  | 860.7  | 874.9  |
| 12.5°  | 321.5 | 361.2 | 467.6 | 500.8 | 605.9 | 748.1  | 808.3  | 863.3  | 958.2  | 1008.1 | 1015.7 |
| 15°    | 290.8 | 344.6 | 488.0 | 536.7 | 672.5 | 837.7  | 904.4  | 972.2  | 1060.6 | 1096.4 | 1105.4 |
| 17.5°  | 263.9 | 331.8 | 507.3 | 558.5 | 723.7 | 918.4  | 986.3  | 1042.7 | 1114.4 | 1138.7 | 1145.1 |
| 20°    | 230.5 | 311.2 | 520.1 | 586.7 | 777.6 | 977.3  | 1042.7 | 1086.2 | 1134.9 | 1150.3 | 1152.9 |
| 22.5°  | 206.2 | 289.5 | 527.7 | 596.9 | 813.4 | 1013.3 | 1068.3 | 1102.9 | 1136.2 | 1141.3 | 1142.6 |
| 25°    | 185.7 | 265.1 | 526.5 | 608.4 | 844.1 | 1035.0 | 1077.2 | 1102.9 | 1122.1 | 1124.7 | 1124.7 |
| 27.5°  | 166.6 | 238.3 | 521.3 | 611.0 | 867.2 | 1040.1 | 1073.4 | 1091.4 | 1100.4 | 1105.4 | 1105.4 |
| 30°    | 149.8 | 212.7 | 508.5 | 605.9 | 877.5 | 1035.0 | 1061.9 | 1070.8 | 1079.8 | 1087.6 | 1091.4 |
| 32.5°  | 137.0 | 188.3 | 489.3 | 595.6 | 878.7 | 1022.1 | 1041.4 | 1046.5 | 1059.3 | 1077.2 | 1083.6 |
| 35°    | 125.5 | 164.0 | 467.6 | 581.5 | 871.1 | 1001.7 | 1014.5 | 1019.7 | 1045.2 | 1072.2 | 1081.1 |
| 37.5°  | 114.0 | 146.0 | 439.4 | 557.2 | 859.5 | 977.3  | 986.3  | 995.3  | 1035.0 | 1067.0 | 1077.2 |
| 40°    | 102.5 | 130.6 | 406.1 | 530.3 | 841.5 | 947.9  | 955.6  | 969.7  | 1022.1 | 1059.3 | 1069.6 |
| 42.5°  | 93.5  | 117.8 | 370.2 | 502.1 | 818.5 | 914.6  | 926.2  | 946.6  | 1006.9 | 1046.5 | 1058.0 |
| 45°    | 85.9  | 105.0 | 331.8 | 463.7 | 789.0 | 880.0  | 896.6  | 924.8  | 988.9  | 1027.3 | 1037.5 |
| 47.5°  | 78.1  | 96.1  | 292.0 | 424.0 | 757.0 | 845.5  | 867.2  | 899.2  | 964.6  | 1001.7 | 1010.7 |
| 50°    | 71.7  | 87.1  | 252.3 | 381.7 | 722.5 | 808.3  | 833.9  | 867.2  | 933.8  | 968.4  | 979.9  |
| 52.5°  | 66.6  | 79.5  | 215.2 | 339.4 | 682.7 | 769.8  | 799.3  | 833.9  | 896.6  | 930.0  | 937.6  |
| 55°    | 61.5  | 73.1  | 183.2 | 294.6 | 641.8 | 728.9  | 760.8  | 794.2  | 855.7  | 883.9  | 889.0  |
| 57.5°  | 58.9  | 67.9  | 156.2 | 252.3 | 598.2 | 682.7  | 718.6  | 749.4  | 807.0  | 828.7  | 833.9  |
| 60°    | 55.1  | 64.1  | 135.8 | 216.5 | 550.8 | 639.2  | 669.9  | 700.7  | 749.4  | 767.2  | 771.2  |
| 62.5°  | 51.3  | 61.5  | 120.4 | 181.9 | 502.1 | 588.0  | 618.6  | 646.9  | 687.9  | 700.7  | 705.8  |
| 65°    | 48.7  | 58.9  | 108.9 | 156.2 | 452.2 | 534.1  | 564.9  | 589.2  | 622.6  | 635.4  | 637.9  |
| 67.5°  | 46.1  | 56.3  | 99.9  | 134.5 | 402.2 | 480.4  | 503.4  | 526.5  | 552.1  | 564.9  | 566.1  |
| 70°    | 42.3  | 53.8  | 92.3  | 119.1 | 351.0 | 418.9  | 438.1  | 462.4  | 482.9  | 489.3  | 493.2  |
| 72.5°  | 39.7  | 49.9  | 87.1  | 107.6 | 298.4 | 359.9  | 377.9  | 391.9  | 409.9  | 416.3  | 416.3  |
| 75°    | 35.9  | 44.8  | 81.9  | 96.1  | 244.7 | 294.6  | 310.0  | 324.0  | 338.2  | 340.7  | 336.9  |
| 77.5°  | 32.0  | 39.7  | 70.5  | 80.7  | 190.9 | 233.1  | 245.9  | 253.6  | 265.1  | 267.7  | 269.0  |
| 80°    | 26.9  | 34.6  | 55.1  | 62.7  | 138.4 | 171.6  | 180.6  | 187.0  | 197.3  | 197.3  | 199.8  |
| 82.5°  | 20.5  | 26.9  | 39.7  | 44.8  | 93.5  | 117.8  | 125.5  | 129.4  | 135.8  | 135.8  | 135.8  |
| 85°    | 12.8  | 16.6  | 25.6  | 29.4  | 56.3  | 71.7   | 76.9   | 78.1   | 83.3   | 84.5   | 84.5   |
| 87.5°  | 6.4   | 9.0   | 16.6  | 18.0  | 29.4  | 37.1   | 37.1   | 39.7   | 39.7   | 38.4   | 37.1   |
| 90°    | 7.9   | 14.3  | 20.6  | 22.3  | 35.0  | 51.9   | 60.4   | 53.7   | 40.2   | 30.2   | 30.2   |
| 92.5°  | 31.8  | 85.9  | 139.9 | 153.4 | 215.5 | 298.5  | 340.0  | 298.0  | 214.0  | 151.0  | 145.0  |
| 95°    | 76.3  | 175.1 | 274.0 | 298.7 | 530.4 | 839.3  | 993.9  | 886.9  | 672.9  | 512.5  | 494.3  |
| 97.5°  | 131.9 | 219.1 | 306.4 | 328.1 | 714.5 | 1229.7 | 1487.2 | 1419.6 | 1284.4 | 1183.0 | 1148.4 |
| 100°   | 174.8 | 253.8 | 333.0 | 352.8 | 781.5 | 1353.1 | 1639.0 | 1643.9 | 1653.8 | 1661.2 | 1620.0 |
| 102.5° | 211.3 | 285.1 | 358.9 | 377.3 | 812.1 | 1391.9 | 1681.9 | 1768.0 | 1940.4 | 2069.6 | 2034.2 |
| 105°   | 273.3 | 335.8 | 398.2 | 413.9 | 835.0 | 1396.4 | 1677.1 | 1870.2 | 2256.5 | 2546.2 | 2527.2 |
| 107.5° | 336.8 | 395.1 | 453.3 | 468.0 | 839.3 | 1334.2 | 1581.8 | 1851.2 | 2390.0 | 2794.0 | 2798.6 |
| 110°   | 379.7 | 432.3 | 484.9 | 498.1 | 832.9 | 1279.1 | 1502.3 | 1803.5 | 2405.8 | 2857.6 | 2877.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 421.8  | 472.0  | 522.2  | 534.7  | 833.1  | 1231.1 | 1430.0 | 1738.3 | 2354.7 | 2817.2 | 2847.5 |
| 115°   | 485.4  | 531.6  | 578.0  | 589.5  | 840.8  | 1175.9 | 1343.4 | 1640.4 | 2234.3 | 2679.7 | 2721.8 |
| 117.5° | 548.2  | 590.2  | 632.2  | 642.7  | 856.4  | 1141.3 | 1283.8 | 1551.8 | 2087.8 | 2489.8 | 2536.5 |
| 120°   | 584.7  | 624.3  | 663.8  | 673.7  | 869.1  | 1129.8 | 1260.0 | 1504.9 | 1994.6 | 2361.9 | 2407.3 |
| 122.5° | 620.5  | 660.4  | 700.3  | 710.2  | 887.4  | 1123.6 | 1241.7 | 1462.2 | 1903.2 | 2234.0 | 2278.8 |
| 125°   | 675.3  | 711.7  | 748.1  | 757.1  | 912.0  | 1118.6 | 1221.8 | 1409.2 | 1783.8 | 2064.8 | 2106.1 |
| 127.5° | 719.8  | 756.5  | 793.2  | 802.4  | 936.7  | 1115.7 | 1205.2 | 1366.0 | 1687.7 | 1928.9 | 1963.7 |
| 130°   | 743.6  | 783.1  | 822.6  | 832.6  | 954.6  | 1117.4 | 1198.8 | 1342.0 | 1628.4 | 1843.2 | 1875.2 |
| 132.5° | 768.2  | 807.7  | 847.3  | 857.2  | 969.2  | 1118.6 | 1193.3 | 1321.4 | 1577.8 | 1770.0 | 1798.7 |
| 135°   | 804.8  | 840.8  | 876.9  | 885.9  | 985.2  | 1117.5 | 1183.7 | 1291.1 | 1505.7 | 1666.8 | 1691.6 |
| 137.5° | 842.1  | 877.7  | 913.5  | 922.3  | 1009.0 | 1124.4 | 1182.1 | 1272.8 | 1454.4 | 1590.5 | 1610.8 |
| 140°   | 873.1  | 905.9  | 938.8  | 947.0  | 1023.5 | 1125.6 | 1176.6 | 1255.0 | 1411.8 | 1529.3 | 1548.3 |
| 142.5° | 896.9  | 927.3  | 957.7  | 965.2  | 1035.7 | 1129.6 | 1176.6 | 1245.4 | 1383.1 | 1486.5 | 1502.8 |
| 145°   | 933.5  | 960.0  | 986.5  | 993.1  | 1051.6 | 1129.7 | 1168.6 | 1225.0 | 1337.6 | 1422.1 | 1434.4 |
| 147.5° | 970.0  | 995.8  | 1021.6 | 1028.1 | 1074.9 | 1137.4 | 1168.6 | 1212.9 | 1301.6 | 1368.0 | 1378.3 |
| 150°   | 993.9  | 1017.2 | 1040.5 | 1046.3 | 1087.1 | 1141.4 | 1168.6 | 1206.1 | 1280.9 | 1337.1 | 1345.4 |
| 152.5° | 1018.5 | 1036.2 | 1053.8 | 1058.2 | 1095.0 | 1144.1 | 1168.6 | 1200.6 | 1264.5 | 1312.5 | 1318.8 |
| 155°   | 1055.0 | 1068.1 | 1081.2 | 1084.4 | 1112.5 | 1149.9 | 1168.6 | 1194.0 | 1244.9 | 1283.0 | 1287.1 |
| 157.5° | 1082.0 | 1094.7 | 1107.5 | 1110.7 | 1130.0 | 1155.7 | 1168.6 | 1188.4 | 1227.9 | 1257.6 | 1260.5 |
| 160°   | 1100.4 | 1110.3 | 1120.1 | 1122.6 | 1138.0 | 1158.4 | 1168.6 | 1185.6 | 1219.5 | 1244.9 | 1246.7 |
| 162.5° | 1118.6 | 1126.0 | 1133.5 | 1135.3 | 1146.4 | 1161.2 | 1168.6 | 1183.0 | 1211.5 | 1233.0 | 1234.6 |
| 165°   | 1138.5 | 1145.1 | 1151.8 | 1153.5 | 1158.6 | 1165.3 | 1168.6 | 1178.9 | 1199.4 | 1214.8 | 1216.5 |
| 167.5° | 1156.7 | 1159.8 | 1163.1 | 1163.9 | 1168.1 | 1173.7 | 1176.6 | 1183.2 | 1196.7 | 1206.7 | 1207.4 |
| 170°   | 1168.6 | 1171.8 | 1175.0 | 1175.8 | 1176.1 | 1176.4 | 1176.6 | 1183.2 | 1196.7 | 1206.7 | 1206.7 |
| 172.5° | 1175.0 | 1175.7 | 1176.4 | 1176.6 | 1176.6 | 1176.6 | 1176.6 | 1181.9 | 1192.5 | 1200.4 | 1199.9 |
| 175°   | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1181.3 | 1178.2 | 1176.6 | 1179.9 | 1186.6 | 1191.6 | 1191.6 |
| 177.5° | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1181.9 | 1179.4 | 1178.2 | 1180.9 | 1186.1 | 1190.1 | 1189.5 |
| 180°   | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 |



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CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 398.3  | 398.3  |
| 2.5°   | 425.3  | 422.7  |
| 5°     | 546.9  | 549.5  |
| 7.5°   | 736.5  | 735.3  |
| 10°    | 915.8  | 927.4  |
| 12.5°  | 1046.5 | 1049.1 |
| 15°    | 1125.9 | 1131.1 |
| 17.5°  | 1156.7 | 1157.9 |
| 20°    | 1157.9 | 1155.4 |
| 22.5°  | 1143.9 | 1141.3 |
| 25°    | 1127.2 | 1125.9 |
| 27.5°  | 1111.8 | 1113.1 |
| 30°    | 1105.4 | 1109.3 |
| 32.5°  | 1105.4 | 1111.8 |
| 35°    | 1108.0 | 1114.4 |
| 37.5°  | 1106.7 | 1114.4 |
| 40°    | 1101.6 | 1110.6 |
| 42.5°  | 1087.6 | 1094.0 |
| 45°    | 1065.8 | 1073.4 |
| 47.5°  | 1037.5 | 1042.7 |
| 50°    | 1001.7 | 1006.9 |
| 52.5°  | 956.8  | 958.2  |
| 55°    | 903.0  | 908.2  |
| 57.5°  | 845.5  | 846.7  |
| 60°    | 781.4  | 785.2  |
| 62.5°  | 713.5  | 713.5  |
| 65°    | 641.8  | 644.3  |
| 67.5°  | 567.5  | 573.9  |
| 70°    | 491.9  | 493.2  |
| 72.5°  | 417.6  | 417.6  |
| 75°    | 340.7  | 342.0  |
| 77.5°  | 267.7  | 267.7  |
| 80°    | 198.5  | 199.8  |
| 82.5°  | 137.0  | 139.6  |
| 85°    | 85.9   | 85.9   |
| 87.5°  | 39.7   | 35.9   |
| 90°    | 30.2   | 30.2   |
| 92.5°  | 121.0  | 96.9   |
| 95°    | 421.5  | 348.8  |
| 97.5°  | 1009.9 | 871.5  |
| 100°   | 1455.1 | 1290.2 |
| 102.5° | 1893.0 | 1751.8 |
| 105°   | 2451.3 | 2375.4 |
| 107.5° | 2817.1 | 2835.4 |
| 110°   | 2956.5 | 3035.6 |





TEST NUMBER: P937495

CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 2968.9 | 3090.4 |
| 115°   | 2890.2 | 3058.7 |
| 117.5° | 2723.3 | 2910.1 |
| 120°   | 2588.8 | 2770.3 |
| 122.5° | 2457.8 | 2636.8 |
| 125°   | 2270.9 | 2435.8 |
| 127.5° | 2102.8 | 2242.0 |
| 130°   | 2003.8 | 2132.3 |
| 132.5° | 1913.9 | 2029.0 |
| 135°   | 1790.8 | 1890.0 |
| 137.5° | 1692.0 | 1773.2 |
| 140°   | 1624.2 | 1700.1 |
| 142.5° | 1568.1 | 1633.4 |
| 145°   | 1483.9 | 1533.3 |
| 147.5° | 1419.2 | 1460.2 |
| 150°   | 1378.5 | 1411.8 |
| 152.5° | 1343.8 | 1368.8 |
| 155°   | 1303.8 | 1320.4 |
| 157.5° | 1272.2 | 1283.8 |
| 160°   | 1253.3 | 1260.0 |
| 162.5° | 1240.9 | 1247.3 |
| 165°   | 1223.2 | 1229.8 |
| 167.5° | 1210.3 | 1213.1 |
| 170°   | 1206.7 | 1206.7 |
| 172.5° | 1197.4 | 1194.9 |
| 175°   | 1191.6 | 1191.6 |
| 177.5° | 1186.6 | 1183.7 |
| 180°   | 1183.7 | 1183.7 |



TEST NUMBER: P937495  
 CATALOG NUMBER: SQ4-FB-100U-050D-B2750-1D-UNV-STD-W-8-4000K

**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 | 0.76             | 1.48  | 1.88  | 2.59  | 4.14  | 13.95          | 14.66 | 15.06 | 15.77 | 17.32 |
|                 | 3H   | 1.46             | 2.10  | 2.58  | 3.22  | 4.78  | 15.77          | 16.42 | 16.90 | 17.54 | 19.10 |
|                 | 4H   | 1.75             | 2.36  | 2.88  | 3.48  | 5.05  | 16.41          | 17.02 | 17.55 | 18.15 | 19.71 |
|                 | 6H   | 1.99             | 2.55  | 3.13  | 3.68  | 5.26  | 16.83          | 17.40 | 17.98 | 18.52 | 20.10 |
|                 | 8H   | 2.06             | 2.59  | 3.20  | 3.73  | 5.30  | 16.95          | 17.49 | 18.10 | 18.63 | 20.20 |
|                 | 12H  | 2.07             | 2.58  | 3.22  | 3.71  | 5.30  | 17.01          | 17.52 | 18.16 | 18.66 | 20.25 |
| 4H              | 2H   | 7.96             | 8.57  | 9.10  | 9.70  | 11.26 | 14.20          | 14.81 | 15.34 | 15.93 | 17.50 |
|                 | 3H   | 9.52             | 10.03 | 10.66 | 11.18 | 12.75 | 16.23          | 16.74 | 17.38 | 17.89 | 19.47 |
|                 | 4H   | 9.61             | 10.08 | 10.76 | 11.21 | 12.81 | 16.99          | 17.46 | 18.14 | 18.60 | 20.20 |
|                 | 6H   | 9.61             | 10.01 | 10.76 | 11.17 | 12.76 | 17.52          | 17.93 | 18.68 | 19.09 | 20.68 |
|                 | 8H   | 9.58             | 9.96  | 10.74 | 11.11 | 12.71 | 17.68          | 18.06 | 18.84 | 19.21 | 20.82 |
|                 | 12H  | 9.53             | 9.87  | 10.70 | 11.03 | 12.64 | 17.77          | 18.11 | 18.94 | 19.27 | 20.88 |
| 8H              | 4H   | 11.04            | 11.41 | 12.19 | 12.57 | 14.17 | 17.04          | 17.42 | 18.20 | 18.57 | 20.17 |
|                 | 6H   | 11.27            | 11.58 | 12.45 | 12.78 | 14.38 | 17.66          | 17.98 | 18.84 | 19.17 | 20.77 |
|                 | 8H   | 11.29            | 11.56 | 12.47 | 12.73 | 14.35 | 17.88          | 18.15 | 19.06 | 19.33 | 20.95 |
|                 | 12H  | 11.25            | 11.49 | 12.44 | 12.66 | 14.31 | 18.02          | 18.26 | 19.20 | 19.43 | 21.08 |
| 12H             | 4H   | 11.17            | 11.52 | 12.35 | 12.68 | 14.29 | 16.99          | 17.33 | 18.16 | 18.49 | 20.10 |
|                 | 6H   | 11.53            | 11.80 | 12.71 | 12.97 | 14.60 | 17.64          | 17.92 | 18.83 | 19.09 | 20.71 |
|                 | 8H   | 11.59            | 11.83 | 12.78 | 13.00 | 14.66 | 17.87          | 18.11 | 19.05 | 19.28 | 20.93 |