

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: P938300

Luminaire Tested: SQ4-FB-150U-050D-B35-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P938300  
REPORT IS A COMBINATION OF REPORTS P933645 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-150U-050D-B35-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

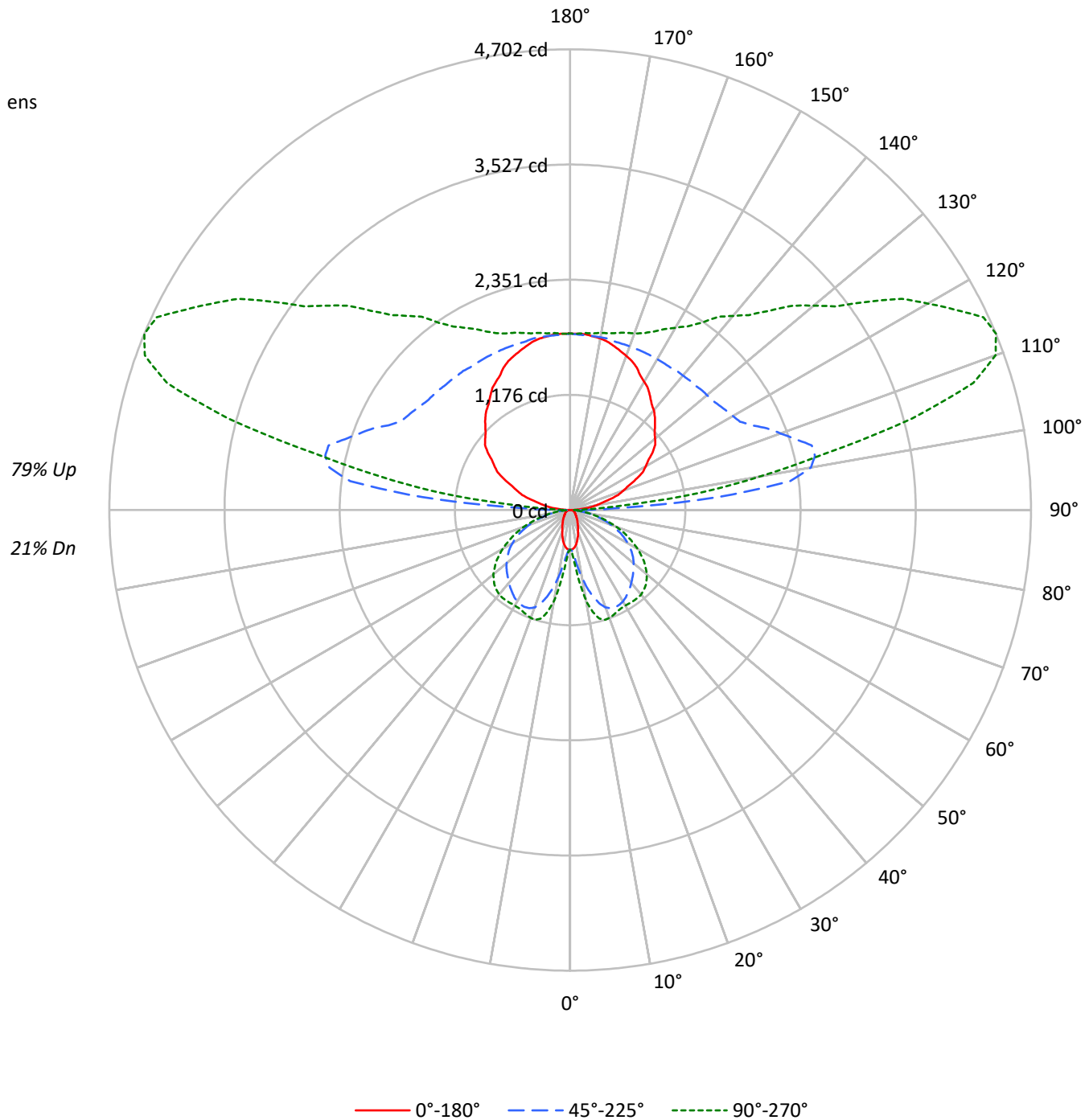
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14809.3 lumens  
Efficiency: N/A  
Efficacy: 133.2 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): 111.2  
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: P938300  
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### Luminous Intensity Polar Plot





TEST NUMBER: P938300

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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   | 100 | 100 | 100 | 100 | 89 | 89 | 89 | 89 | 67 | 67 | 67 | 48 | 48 | 48 | 30 | 30 | 30 | 30 | 30 | 30 | 21 |
| 1   | 91  | 87  | 83  | 80  | 80 | 77 | 74 | 71 | 58 | 56 | 54 | 41 | 40 | 39 | 26 | 25 | 24 | 24 | 24 | 24 | 17 |
| 2   | 83  | 75  | 70  | 65  | 73 | 67 | 62 | 58 | 51 | 48 | 45 | 36 | 34 | 32 | 22 | 21 | 20 | 20 | 20 | 20 | 14 |
| 3   | 75  | 66  | 59  | 53  | 66 | 59 | 53 | 48 | 45 | 40 | 37 | 32 | 29 | 27 | 20 | 18 | 17 | 17 | 17 | 17 | 12 |
| 4   | 69  | 58  | 50  | 45  | 60 | 52 | 45 | 40 | 39 | 35 | 31 | 28 | 25 | 23 | 17 | 16 | 14 | 14 | 14 | 14 | 10 |
| 5   | 63  | 51  | 44  | 38  | 55 | 46 | 39 | 34 | 35 | 30 | 27 | 25 | 22 | 19 | 15 | 14 | 12 | 12 | 12 | 12 | 8  |
| 6   | 57  | 46  | 38  | 32  | 51 | 41 | 34 | 29 | 31 | 26 | 23 | 22 | 19 | 17 | 14 | 12 | 11 | 11 | 11 | 11 | 7  |
| 7   | 53  | 41  | 33  | 28  | 47 | 37 | 30 | 25 | 28 | 23 | 20 | 20 | 17 | 14 | 12 | 11 | 9  | 9  | 9  | 9  | 6  |
| 8   | 49  | 37  | 30  | 24  | 43 | 33 | 27 | 22 | 25 | 21 | 17 | 18 | 15 | 13 | 11 | 9  | 8  | 8  | 8  | 8  | 5  |
| 9   | 45  | 34  | 26  | 21  | 40 | 30 | 24 | 19 | 23 | 18 | 15 | 16 | 13 | 11 | 10 | 9  | 7  | 7  | 7  | 7  | 5  |
| 10  | 42  | 31  | 24  | 19  | 37 | 27 | 21 | 17 | 21 | 17 | 14 | 15 | 12 | 10 | 10 | 8  | 6  | 6  | 6  | 6  | 4  |

**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    | 0.4       |
| 10°-20°   | 231.7   | 1.6       |
| 20°-30°   | 405.3   | 2.7       |
| 30°-40°   | 521.8   | 3.5       |
| 40°-50°   | 582.8   | 3.9       |
| 50°-60°   | 558.2   | 3.8       |
| 60°-70°   | 442.4   | 3.0       |
| 70°-80°   | 260.1   | 1.8       |
| 80°-90°   | 79.1    | 0.5       |
| 90°-100°  | 877.9   | 5.9       |
| 100°-110° | 2308.1  | 15.6      |
| 110°-120° | 2393.2  | 16.2      |
| 120°-130° | 1919.7  | 13.0      |
| 130°-140° | 1506.3  | 10.2      |
| 140°-150° | 1156.1  | 7.8       |
| 150°-160° | 832.6   | 5.6       |
| 160°-170° | 509.4   | 3.4       |
| 170°-180° | 172.1   | 1.2       |
| 0°-30°    | 689.4   | 4.7       |
| 0°-40°    | 1211.2  | 8.2       |
| 0°-60°    | 2352.2  | 15.9      |
| 0°-90°    | 3133.9  | 21.2      |
| 90°-120°  | 5579.2  | 37.7      |
| 90°-150°  | 10161.3 | 68.6      |
| 90°-180°  | 11675.0 | 78.8      |
| 0°-180°   | 14809.3 | 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°  | 12   | 34    | 92   | 46    | 46   | 11   |
| 95°  | 116  | 454   | 1512 | 780   | 531  | 129  |
| 105° | 416  | 630   | 2552 | 3874  | 3614 | 441  |
| 115° | 739  | 897   | 2044 | 4077  | 4654 | 729  |
| 125° | 1027 | 1152  | 1859 | 3142  | 3706 | 912  |
| 135° | 1224 | 1348  | 1801 | 2536  | 2876 | 947  |
| 145° | 1420 | 1511  | 1778 | 2164  | 2333 | 890  |
| 155° | 1605 | 1650  | 1778 | 1952  | 2009 | 738  |
| 165° | 1732 | 1755  | 1778 | 1848  | 1871 | 489  |
| 175° | 1801 | 1801  | 1790 | 1813  | 1813 | 171  |
| 180° | 1801 | 1801  | 1801 | 1801  | 1801 |      |



TEST NUMBER: P938300

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**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°    | 12.1  | 21.8  | 31.4  | 33.8  | 53.2   | 79.0   | 91.9   | 81.7   | 61.2   | 45.9   | 45.9   |
| 92.5°  | 48.4  | 130.5 | 212.8 | 233.3 | 328.0  | 454.3  | 517.3  | 453.4  | 325.6  | 229.7  | 220.5  |
| 95°    | 116.1 | 266.5 | 416.9 | 454.5 | 807.0  | 1277.0 | 1512.1 | 1349.3 | 1023.8 | 779.7  | 751.9  |
| 97.5°  | 200.7 | 333.3 | 466.1 | 499.2 | 1087.1 | 1870.9 | 2262.8 | 2159.9 | 1954.2 | 1799.8 | 1747.2 |
| 100°   | 265.9 | 386.2 | 506.6 | 536.7 | 1189.1 | 2058.7 | 2493.6 | 2501.2 | 2516.2 | 2527.4 | 2464.7 |
| 102.5° | 321.5 | 433.8 | 546.0 | 574.1 | 1235.8 | 2117.8 | 2558.9 | 2690.0 | 2952.2 | 3148.8 | 3095.1 |
| 105°   | 415.8 | 510.9 | 606.0 | 629.8 | 1270.4 | 2124.5 | 2551.7 | 2845.6 | 3433.3 | 3874.1 | 3845.2 |
| 107.5° | 512.5 | 601.2 | 689.7 | 711.9 | 1276.9 | 2030.1 | 2406.6 | 2816.5 | 3636.4 | 4251.2 | 4258.2 |
| 110°   | 577.8 | 657.9 | 737.9 | 757.9 | 1267.2 | 1946.2 | 2285.8 | 2744.0 | 3660.5 | 4347.9 | 4377.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 641.9  | 718.1  | 794.4  | 813.5  | 1267.5 | 1873.0 | 2175.7 | 2644.7 | 3582.7 | 4286.2 | 4332.4 |
| 115°   | 738.6  | 808.9  | 879.3  | 896.9  | 1279.3 | 1789.1 | 2044.0 | 2495.8 | 3399.3 | 4077.1 | 4141.1 |
| 117.5° | 834.0  | 898.0  | 961.9  | 977.9  | 1303.0 | 1736.5 | 1953.3 | 2361.1 | 3176.6 | 3788.2 | 3859.2 |
| 120°   | 889.6  | 949.8  | 1010.0 | 1025.0 | 1322.4 | 1718.8 | 1917.1 | 2289.7 | 3034.8 | 3593.6 | 3662.6 |
| 122.5° | 944.0  | 1004.8 | 1065.4 | 1080.6 | 1350.2 | 1709.6 | 1889.3 | 2224.7 | 2895.8 | 3399.0 | 3467.1 |
| 125°   | 1027.4 | 1082.8 | 1138.1 | 1151.9 | 1387.6 | 1701.9 | 1859.0 | 2144.0 | 2714.0 | 3141.5 | 3204.2 |
| 127.5° | 1095.2 | 1151.0 | 1206.9 | 1220.8 | 1425.1 | 1697.5 | 1833.6 | 2078.3 | 2567.8 | 2934.8 | 2987.7 |
| 130°   | 1131.4 | 1191.6 | 1251.8 | 1266.8 | 1452.5 | 1700.1 | 1823.9 | 2041.8 | 2477.5 | 2804.3 | 2853.2 |
| 132.5° | 1168.9 | 1229.1 | 1289.3 | 1304.3 | 1474.7 | 1702.0 | 1815.5 | 2010.5 | 2400.5 | 2693.0 | 2736.8 |
| 135°   | 1224.4 | 1279.3 | 1334.1 | 1347.8 | 1498.8 | 1700.3 | 1801.0 | 1964.4 | 2291.0 | 2536.0 | 2573.7 |
| 137.5° | 1281.3 | 1335.6 | 1389.7 | 1403.3 | 1535.1 | 1710.8 | 1798.7 | 1936.7 | 2212.8 | 2419.9 | 2450.8 |
| 140°   | 1328.4 | 1378.4 | 1428.3 | 1440.8 | 1557.3 | 1712.5 | 1790.1 | 1909.4 | 2148.0 | 2326.9 | 2355.7 |
| 142.5° | 1364.6 | 1410.9 | 1457.1 | 1468.6 | 1575.8 | 1718.7 | 1790.1 | 1894.9 | 2104.4 | 2261.5 | 2286.4 |
| 145°   | 1420.3 | 1460.6 | 1500.9 | 1511.0 | 1600.0 | 1718.7 | 1778.0 | 1863.7 | 2035.1 | 2163.7 | 2182.5 |
| 147.5° | 1475.9 | 1515.1 | 1554.4 | 1564.2 | 1635.5 | 1730.5 | 1778.0 | 1845.5 | 1980.2 | 2081.4 | 2097.0 |
| 150°   | 1512.1 | 1547.6 | 1583.1 | 1591.9 | 1653.9 | 1736.6 | 1778.0 | 1835.0 | 1948.9 | 2034.3 | 2046.9 |
| 152.5° | 1549.6 | 1576.5 | 1603.4 | 1610.1 | 1666.1 | 1740.7 | 1778.0 | 1826.7 | 1923.9 | 1996.8 | 2006.3 |
| 155°   | 1605.2 | 1625.1 | 1645.0 | 1649.9 | 1692.6 | 1749.5 | 1778.0 | 1816.7 | 1894.1 | 1952.1 | 1958.4 |
| 157.5° | 1646.3 | 1665.7 | 1685.0 | 1689.8 | 1719.2 | 1758.4 | 1778.0 | 1808.2 | 1868.3 | 1913.5 | 1917.9 |
| 160°   | 1674.1 | 1689.2 | 1704.2 | 1708.0 | 1731.3 | 1762.4 | 1778.0 | 1803.8 | 1855.4 | 1894.1 | 1896.6 |
| 162.5° | 1702.0 | 1713.2 | 1724.5 | 1727.3 | 1744.2 | 1766.8 | 1778.0 | 1799.8 | 1843.3 | 1876.0 | 1878.4 |
| 165°   | 1732.1 | 1742.3 | 1752.5 | 1755.1 | 1762.7 | 1772.9 | 1778.0 | 1793.6 | 1824.8 | 1848.2 | 1850.7 |
| 167.5° | 1759.9 | 1764.7 | 1769.6 | 1770.8 | 1777.2 | 1785.9 | 1790.1 | 1800.3 | 1820.8 | 1836.1 | 1837.1 |
| 170°   | 1778.0 | 1782.9 | 1787.7 | 1789.0 | 1789.4 | 1789.8 | 1790.1 | 1800.3 | 1820.8 | 1836.1 | 1836.1 |
| 172.5° | 1787.7 | 1788.8 | 1789.8 | 1790.1 | 1790.1 | 1790.1 | 1790.1 | 1798.2 | 1814.3 | 1826.4 | 1825.4 |
| 175°   | 1801.0 | 1801.0 | 1801.0 | 1801.0 | 1797.4 | 1792.6 | 1790.1 | 1795.3 | 1805.4 | 1813.1 | 1813.1 |
| 177.5° | 1801.0 | 1801.0 | 1801.0 | 1801.0 | 1798.2 | 1794.4 | 1792.6 | 1796.6 | 1804.7 | 1810.7 | 1809.6 |
| 180°   | 1801.0 | 1801.0 | 1801.0 | 1801.0 | 1801.0 | 1801.0 | 1801.0 | 1801.0 | 1801.0 | 1801.0 | 1801.0 |



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CATALOG NUMBER: SQ4-FB-150U-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°    | 45.9   | 45.9   |
| 92.5°  | 184.0  | 147.5  |
| 95°    | 641.3  | 530.6  |
| 97.5°  | 1536.5 | 1326.0 |
| 100°   | 2213.9 | 1963.0 |
| 102.5° | 2880.2 | 2665.3 |
| 105°   | 3729.7 | 3614.2 |
| 107.5° | 4286.1 | 4314.0 |
| 110°   | 4498.3 | 4618.6 |





TEST NUMBER: P938300

CATALOG NUMBER: SQ4-FB-150U-050D-B35-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 4517.2 | 4702.0 |
| 115°   | 4397.4 | 4653.6 |
| 117.5° | 4143.4 | 4427.7 |
| 120°   | 3938.8 | 4214.9 |
| 122.5° | 3739.5 | 4011.9 |
| 125°   | 3455.2 | 3706.0 |
| 127.5° | 3199.4 | 3411.1 |
| 130°   | 3048.8 | 3244.3 |
| 132.5° | 2911.9 | 3087.1 |
| 135°   | 2724.6 | 2875.6 |
| 137.5° | 2574.3 | 2697.9 |
| 140°   | 2471.2 | 2586.7 |
| 142.5° | 2385.8 | 2485.2 |
| 145°   | 2257.7 | 2332.9 |
| 147.5° | 2159.3 | 2221.6 |
| 150°   | 2097.5 | 2148.0 |
| 152.5° | 2044.5 | 2082.7 |
| 155°   | 1983.7 | 2008.9 |
| 157.5° | 1935.6 | 1953.3 |
| 160°   | 1906.9 | 1917.1 |
| 162.5° | 1888.0 | 1897.7 |
| 165°   | 1861.0 | 1871.1 |
| 167.5° | 1841.5 | 1845.8 |
| 170°   | 1836.1 | 1836.1 |
| 172.5° | 1821.7 | 1817.9 |
| 175°   | 1813.1 | 1813.1 |
| 177.5° | 1805.2 | 1801.0 |
| 180°   | 1801.0 | 1801.0 |



TEST NUMBER: P938300  
 CATALOG NUMBER: SQ4-FB-150U-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 | 0.00             | 0.28  | 0.78  | 1.43  | 3.06  | 12.79          | 13.46 | 13.96 | 14.61 | 16.24 |
|                 | 3H   | 0.30             | 0.90  | 1.48  | 2.06  | 3.70  | 14.62          | 15.21 | 15.79 | 16.38 | 18.02 |
|                 | 4H   | 0.59             | 1.16  | 1.77  | 2.32  | 3.97  | 15.25          | 15.82 | 16.44 | 16.98 | 18.63 |
|                 | 6H   | 0.83             | 1.35  | 2.02  | 2.52  | 4.18  | 15.67          | 16.19 | 16.86 | 17.36 | 19.02 |
|                 | 8H   | 0.89             | 1.39  | 2.09  | 2.57  | 4.22  | 15.79          | 16.28 | 16.98 | 17.46 | 19.11 |
|                 | 12H  | 0.90             | 1.37  | 2.10  | 2.55  | 4.22  | 15.85          | 16.32 | 17.04 | 17.49 | 19.17 |
| 4H              | 2H   | 6.81             | 7.37  | 8.00  | 8.53  | 10.18 | 13.04          | 13.61 | 14.23 | 14.77 | 16.42 |
|                 | 3H   | 8.35             | 8.83  | 9.55  | 10.01 | 11.67 | 15.07          | 15.54 | 16.26 | 16.73 | 18.39 |
|                 | 4H   | 8.44             | 8.88  | 9.64  | 10.05 | 11.73 | 15.83          | 16.26 | 17.02 | 17.44 | 19.12 |
|                 | 6H   | 8.44             | 8.81  | 9.64  | 10.01 | 11.68 | 16.36          | 16.73 | 17.55 | 17.93 | 19.59 |
|                 | 8H   | 8.41             | 8.76  | 9.61  | 9.95  | 11.63 | 16.51          | 16.86 | 17.71 | 18.05 | 19.73 |
|                 | 12H  | 8.36             | 8.67  | 9.57  | 9.87  | 11.56 | 16.60          | 16.91 | 17.81 | 18.11 | 19.80 |
| 8H              | 4H   | 9.87             | 10.22 | 11.07 | 11.40 | 13.09 | 15.87          | 16.22 | 17.07 | 17.41 | 19.09 |
|                 | 6H   | 10.10            | 10.39 | 11.32 | 11.62 | 13.30 | 16.49          | 16.78 | 17.71 | 18.01 | 19.69 |
|                 | 8H   | 10.12            | 10.37 | 11.34 | 11.57 | 13.27 | 16.71          | 16.96 | 17.93 | 18.17 | 19.87 |
|                 | 12H  | 10.07            | 10.29 | 11.30 | 11.50 | 13.23 | 16.84          | 17.06 | 18.07 | 18.27 | 20.00 |
| 12H             | 4H   | 10.00            | 10.32 | 11.22 | 11.52 | 13.21 | 15.81          | 16.13 | 17.03 | 17.33 | 19.02 |
|                 | 6H   | 10.36            | 10.61 | 11.58 | 11.81 | 13.52 | 16.47          | 16.72 | 17.69 | 17.93 | 19.63 |
|                 | 8H   | 10.42            | 10.64 | 11.64 | 11.84 | 13.57 | 16.69          | 16.91 | 17.92 | 18.12 | 19.85 |