

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: P937112

Luminaire Tested: SQ4-FB-075U-075D-830-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937112  
REPORT IS A COMBINATION OF REPORTS P933518 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-075U-075D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

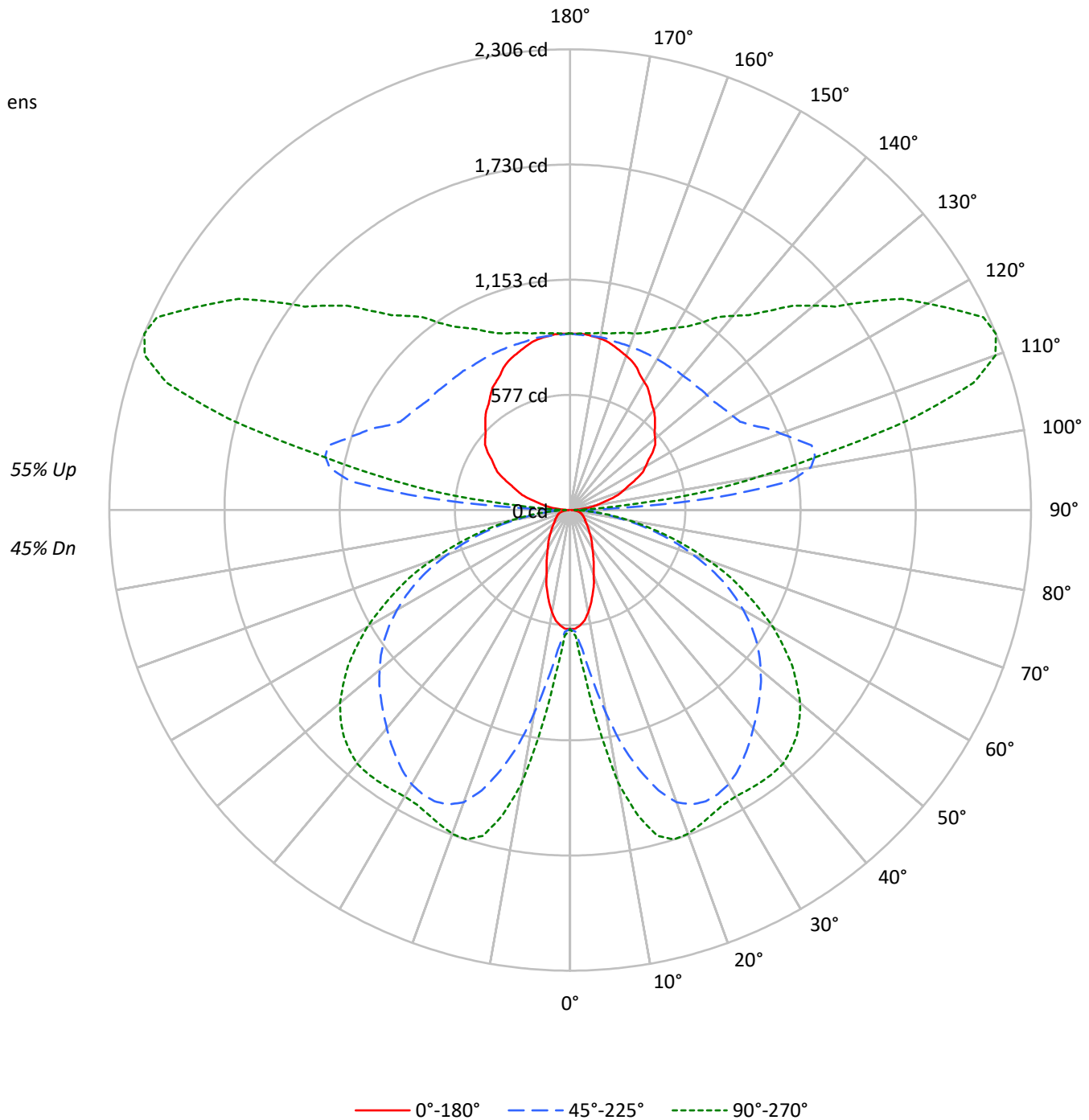
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10328.7 lumens  
Efficiency: N/A  
Efficacy: 121.8 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: General Diffuse

Input Watts (W): 84.8  
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: P937112  
CATALOG NUMBER: SQ4-FB-075U-075D-830-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P937112

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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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 45 | 45 | 45 | 45 |
| 1   | 96  | 92  | 88  | 84  | 88 | 84 | 80 | 77 | 70 | 67 | 65 | 57 | 55 | 53 | 44 | 43 | 42 | 37 | 37 | 37 | 37 |
| 2   | 87  | 79  | 73  | 68  | 79 | 73 | 67 | 63 | 60 | 56 | 53 | 49 | 46 | 44 | 38 | 36 | 35 | 30 | 30 | 30 | 30 |
| 3   | 79  | 69  | 62  | 56  | 72 | 64 | 57 | 52 | 53 | 48 | 44 | 43 | 39 | 36 | 34 | 31 | 29 | 25 | 25 | 25 | 25 |
| 4   | 72  | 61  | 53  | 47  | 65 | 56 | 49 | 43 | 46 | 41 | 37 | 38 | 34 | 31 | 30 | 27 | 24 | 21 | 21 | 21 | 21 |
| 5   | 66  | 54  | 46  | 39  | 60 | 50 | 42 | 37 | 41 | 36 | 31 | 34 | 29 | 26 | 26 | 23 | 21 | 17 | 17 | 17 | 17 |
| 6   | 60  | 48  | 40  | 34  | 55 | 44 | 37 | 31 | 37 | 31 | 27 | 30 | 26 | 22 | 24 | 21 | 18 | 15 | 15 | 15 | 15 |
| 7   | 56  | 43  | 35  | 29  | 51 | 40 | 32 | 27 | 33 | 28 | 23 | 27 | 23 | 20 | 21 | 18 | 16 | 13 | 13 | 13 | 13 |
| 8   | 51  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 30 | 24 | 21 | 25 | 20 | 17 | 20 | 16 | 14 | 11 | 11 | 11 | 11 |
| 9   | 48  | 35  | 28  | 23  | 44 | 33 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 15 | 12 | 10 | 10 | 10 | 10 |
| 10  | 44  | 32  | 25  | 20  | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 17 | 14 | 16 | 13 | 11 | 9  | 9  | 9  | 9  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2759 | 2759 | 2759 |
| 5°  | 2695 | 3189 | 3708 |
| 10° | 2445 | 4648 | 6148 |
| 15° | 2078 | 6073 | 7424 |
| 20° | 1692 | 7038 | 7566 |
| 25° | 1411 | 7365 | 7412 |
| 30° | 1190 | 7411 | 7398 |
| 35° | 1052 | 7288 | 7589 |
| 40° | 917  | 7128 | 7787 |
| 45° | 830  | 7011 | 7818 |
| 50° | 762  | 6906 | 7688 |
| 55° | 730  | 6751 | 7348 |
| 60° | 747  | 6455 | 6810 |
| 65° | 777  | 6004 | 6069 |
| 70° | 828  | 5236 | 5128 |
| 75° | 916  | 4269 | 4002 |
| 80° | 1003 | 2961 | 2697 |
| 85° | 890  | 1570 | 1380 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7818 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 76.9    | 0.7       |
| 10°-20°   | 340.9   | 3.3       |
| 20°-30°   | 596.3   | 5.8       |
| 30°-40°   | 767.6   | 7.4       |
| 40°-50°   | 857.4   | 8.3       |
| 50°-60°   | 821.2   | 8.0       |
| 60°-70°   | 650.8   | 6.3       |
| 70°-80°   | 382.7   | 3.7       |
| 80°-90°   | 109.7   | 1.1       |
| 90°-100°  | 430.5   | 4.2       |
| 100°-110° | 1131.8  | 11.0      |
| 110°-120° | 1173.5  | 11.4      |
| 120°-130° | 941.3   | 9.1       |
| 130°-140° | 738.6   | 7.2       |
| 140°-150° | 566.9   | 5.5       |
| 150°-160° | 408.3   | 4.0       |
| 160°-170° | 249.8   | 2.4       |
| 170°-180° | 84.4    | 0.8       |
| 0°-30°    | 1014.2  | 9.8       |
| 0°-40°    | 1781.8  | 17.3      |
| 0°-60°    | 3460.5  | 33.5      |
| 0°-90°    | 4603.7  | 44.6      |
| 90°-120°  | 2735.8  | 26.5      |
| 90°-150°  | 4982.6  | 48.2      |
| 90°-180°  | 5725.0  | 55.4      |
| 0°-180°   | 10328.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 595 | 595   | 595  | 595   | 595  |      |
| 5°   | 579 | 621   | 700  | 792   | 820  | 53   |
| 15°  | 434 | 801   | 1350 | 1637  | 1688 | 121  |
| 25°  | 277 | 908   | 1608 | 1679  | 1681 | 128  |
| 35°  | 187 | 868   | 1514 | 1600  | 1664 | 117  |
| 45°  | 128 | 692   | 1338 | 1534  | 1602 | 99   |
| 55°  | 92  | 440   | 1136 | 1319  | 1356 | 84   |
| 65°  | 73  | 233   | 843  | 948   | 962  | 72   |
| 75°  | 54  | 143   | 463  | 509   | 510  | 56   |
| 85°  | 19  | 44    | 115  | 126   | 128  | 20   |
| 90°  | 6   | 17    | 45   | 23    | 23   | 6    |
| 95°  | 57  | 223   | 742  | 382   | 260  | 63   |
| 105° | 204 | 309   | 1251 | 1900  | 1772 | 216  |
| 115° | 362 | 440   | 1002 | 1999  | 2282 | 358  |
| 125° | 504 | 565   | 912  | 1540  | 1817 | 447  |
| 135° | 600 | 661   | 883  | 1244  | 1410 | 465  |
| 145° | 696 | 741   | 872  | 1061  | 1144 | 436  |
| 155° | 787 | 809   | 872  | 957   | 985  | 362  |
| 165° | 849 | 861   | 872  | 906   | 918  | 240  |
| 175° | 883 | 883   | 878  | 889   | 889  | 84   |
| 180° | 883 | 883   | 883  | 883   | 883  |      |



TEST NUMBER: P937112

CATALOG NUMBER: SQ4-FB-075U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 594.6 | 594.6 | 594.6 | 594.6 | 594.6  | 594.6  | 594.6  | 594.6  | 594.6  | 594.6  | 594.6  |
| 2.5°   | 594.6 | 594.6 | 598.5 | 600.4 | 604.2  | 606.1  | 609.9  | 613.8  | 625.2  | 627.1  | 631.0  |
| 5°     | 579.3 | 587.0 | 611.8 | 621.4 | 648.2  | 684.5  | 699.8  | 724.6  | 776.3  | 791.6  | 801.1  |
| 7.5°   | 556.4 | 573.6 | 634.8 | 650.1 | 717.0  | 812.6  | 852.8  | 906.3  | 988.5  | 1028.7 | 1061.2 |
| 10°    | 520.1 | 556.4 | 665.4 | 701.7 | 810.7  | 956.0  | 1030.6 | 1105.2 | 1229.5 | 1285.0 | 1306.0 |
| 12.5°  | 479.9 | 539.2 | 697.9 | 747.6 | 904.4  | 1116.7 | 1206.6 | 1288.8 | 1430.3 | 1504.8 | 1516.3 |
| 15°    | 434.0 | 514.3 | 728.5 | 801.1 | 1003.8 | 1250.5 | 1350.0 | 1451.3 | 1583.2 | 1636.8 | 1650.2 |
| 17.5°  | 393.9 | 495.2 | 757.2 | 833.6 | 1080.3 | 1371.0 | 1472.3 | 1556.5 | 1663.5 | 1699.9 | 1709.4 |
| 20°    | 344.2 | 464.6 | 776.3 | 875.7 | 1160.7 | 1459.0 | 1556.5 | 1621.5 | 1694.1 | 1717.1 | 1720.9 |
| 22.5°  | 307.8 | 432.1 | 787.7 | 891.0 | 1214.2 | 1512.5 | 1594.7 | 1646.3 | 1696.0 | 1703.7 | 1705.6 |
| 25°    | 277.2 | 395.8 | 785.8 | 908.2 | 1260.1 | 1545.0 | 1608.1 | 1646.3 | 1675.0 | 1678.8 | 1678.8 |
| 27.5°  | 248.6 | 355.6 | 778.2 | 912.0 | 1294.5 | 1552.6 | 1602.4 | 1629.1 | 1642.5 | 1650.2 | 1650.2 |
| 30°    | 223.7 | 317.4 | 759.1 | 904.4 | 1309.8 | 1545.0 | 1585.1 | 1598.5 | 1611.9 | 1623.4 | 1629.1 |
| 32.5°  | 204.6 | 281.1 | 730.4 | 889.1 | 1311.7 | 1525.9 | 1554.6 | 1562.2 | 1581.3 | 1608.1 | 1617.6 |
| 35°    | 187.4 | 244.7 | 697.9 | 868.0 | 1300.3 | 1495.3 | 1514.4 | 1522.0 | 1560.3 | 1600.4 | 1613.8 |
| 37.5°  | 170.2 | 218.0 | 655.8 | 831.7 | 1283.0 | 1459.0 | 1472.3 | 1485.7 | 1545.0 | 1592.8 | 1608.1 |
| 40°    | 153.0 | 195.0 | 606.1 | 791.6 | 1256.3 | 1415.0 | 1426.4 | 1447.5 | 1525.9 | 1581.3 | 1596.6 |
| 42.5°  | 139.6 | 175.9 | 552.6 | 749.5 | 1221.9 | 1365.3 | 1382.5 | 1413.1 | 1502.9 | 1562.2 | 1579.4 |
| 45°    | 128.1 | 156.8 | 495.2 | 692.1 | 1177.9 | 1313.6 | 1338.5 | 1380.6 | 1476.2 | 1533.5 | 1548.8 |
| 47.5°  | 116.6 | 143.4 | 435.9 | 632.9 | 1130.1 | 1262.0 | 1294.5 | 1342.3 | 1439.8 | 1495.3 | 1508.7 |
| 50°    | 107.1 | 130.0 | 376.7 | 569.8 | 1078.4 | 1206.6 | 1244.8 | 1294.5 | 1393.9 | 1445.6 | 1462.8 |
| 52.5°  | 99.4  | 118.5 | 321.2 | 506.7 | 1019.1 | 1149.2 | 1193.2 | 1244.8 | 1338.5 | 1388.2 | 1399.7 |
| 55°    | 91.8  | 109.0 | 273.4 | 439.8 | 957.9  | 1088.0 | 1135.8 | 1185.5 | 1277.3 | 1319.4 | 1327.0 |
| 57.5°  | 88.0  | 101.3 | 233.3 | 376.7 | 892.9  | 1019.1 | 1072.6 | 1118.6 | 1204.7 | 1237.2 | 1244.8 |
| 60°    | 82.2  | 95.6  | 202.7 | 323.1 | 822.2  | 954.1  | 1000.0 | 1045.9 | 1118.6 | 1145.4 | 1151.1 |
| 62.5°  | 76.5  | 91.8  | 179.7 | 271.5 | 749.5  | 877.6  | 923.5  | 965.6  | 1026.7 | 1045.9 | 1053.5 |
| 65°    | 72.7  | 88.0  | 162.5 | 233.3 | 674.9  | 797.3  | 843.2  | 879.5  | 929.2  | 948.4  | 952.2  |
| 67.5°  | 68.8  | 84.1  | 149.1 | 200.8 | 600.4  | 717.0  | 751.4  | 785.8  | 824.1  | 843.2  | 845.1  |
| 70°    | 63.1  | 80.3  | 137.7 | 177.8 | 523.9  | 625.2  | 653.9  | 690.2  | 720.8  | 730.4  | 736.1  |
| 72.5°  | 59.3  | 74.6  | 130.0 | 160.6 | 445.5  | 537.3  | 564.0  | 585.1  | 611.8  | 621.4  | 621.4  |
| 75°    | 53.5  | 66.9  | 122.4 | 143.4 | 365.2  | 439.8  | 462.7  | 483.7  | 504.8  | 508.6  | 502.9  |
| 77.5°  | 47.8  | 59.3  | 105.2 | 120.5 | 284.9  | 348.0  | 367.1  | 378.6  | 395.8  | 399.6  | 401.5  |
| 80°    | 40.2  | 51.6  | 82.2  | 93.7  | 206.5  | 256.2  | 269.6  | 279.2  | 294.4  | 294.4  | 298.3  |
| 82.5°  | 30.6  | 40.2  | 59.3  | 66.9  | 139.6  | 175.9  | 187.4  | 193.1  | 202.7  | 202.7  | 202.7  |
| 85°    | 19.1  | 24.9  | 38.2  | 44.0  | 84.1   | 107.1  | 114.7  | 116.6  | 124.3  | 126.2  | 126.2  |
| 87.5°  | 9.6   | 13.4  | 24.9  | 26.8  | 44.0   | 55.4   | 55.4   | 59.3   | 59.3   | 57.4   | 55.4   |
| 90°    | 5.9   | 10.7  | 15.5  | 16.6  | 26.1   | 38.7   | 45.0   | 40.1   | 30.0   | 22.6   | 22.6   |
| 92.5°  | 23.7  | 64.1  | 104.4 | 114.4 | 160.9  | 222.7  | 253.7  | 222.4  | 159.7  | 112.6  | 108.1  |
| 95°    | 56.9  | 130.7 | 204.4 | 222.8 | 395.7  | 626.2  | 741.5  | 661.6  | 502.0  | 382.3  | 368.7  |
| 97.5°  | 98.4  | 163.5 | 228.6 | 244.8 | 533.1  | 917.4  | 1109.5 | 1059.1 | 958.2  | 882.6  | 856.8  |
| 100°   | 130.4 | 189.4 | 248.5 | 263.2 | 583.1  | 1009.5 | 1222.7 | 1226.5 | 1233.8 | 1239.4 | 1208.6 |
| 102.5° | 157.6 | 212.7 | 267.8 | 281.5 | 605.9  | 1038.5 | 1254.8 | 1319.0 | 1447.6 | 1544.0 | 1517.6 |
| 105°   | 203.9 | 250.6 | 297.1 | 308.8 | 622.9  | 1041.8 | 1251.2 | 1395.3 | 1683.4 | 1899.6 | 1885.4 |
| 107.5° | 251.3 | 294.8 | 338.2 | 349.1 | 626.1  | 995.4  | 1180.1 | 1381.0 | 1783.0 | 2084.6 | 2088.0 |
| 110°   | 283.4 | 322.6 | 361.8 | 371.6 | 621.3  | 954.3  | 1120.8 | 1345.5 | 1794.9 | 2132.0 | 2146.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 314.7 | 352.1 | 389.5 | 398.8 | 621.5 | 918.4 | 1066.9 | 1296.9 | 1756.8 | 2101.8 | 2124.4 |
| 115°   | 362.1 | 396.6 | 431.2 | 439.8 | 627.2 | 877.2 | 1002.3 | 1223.8 | 1666.9 | 1999.2 | 2030.6 |
| 117.5° | 409.0 | 440.3 | 471.7 | 479.5 | 639.0 | 851.5 | 957.8  | 1157.7 | 1557.6 | 1857.5 | 1892.3 |
| 120°   | 436.2 | 465.7 | 495.2 | 502.6 | 648.4 | 842.8 | 940.0  | 1122.7 | 1488.1 | 1762.1 | 1795.9 |
| 122.5° | 462.9 | 492.7 | 522.5 | 529.9 | 662.0 | 838.2 | 926.4  | 1090.9 | 1419.9 | 1666.7 | 1700.1 |
| 125°   | 503.8 | 531.0 | 558.0 | 564.8 | 680.4 | 834.5 | 911.5  | 1051.3 | 1330.8 | 1540.4 | 1571.2 |
| 127.5° | 537.0 | 564.4 | 591.8 | 598.6 | 698.8 | 832.4 | 899.1  | 1019.1 | 1259.1 | 1439.1 | 1465.0 |
| 130°   | 554.8 | 584.2 | 613.8 | 621.1 | 712.2 | 833.7 | 894.4  | 1001.2 | 1214.9 | 1375.1 | 1399.1 |
| 132.5° | 573.1 | 602.7 | 632.2 | 639.6 | 723.1 | 834.5 | 890.2  | 985.8  | 1177.1 | 1320.5 | 1342.0 |
| 135°   | 600.4 | 627.2 | 654.2 | 660.9 | 735.0 | 833.7 | 883.2  | 963.3  | 1123.4 | 1243.5 | 1262.0 |
| 137.5° | 628.3 | 654.9 | 681.4 | 688.1 | 752.8 | 838.9 | 881.9  | 949.6  | 1085.1 | 1186.6 | 1201.7 |
| 140°   | 651.4 | 675.9 | 700.4 | 706.5 | 763.6 | 839.8 | 877.8  | 936.3  | 1053.2 | 1141.0 | 1155.1 |
| 142.5° | 669.2 | 691.9 | 714.5 | 720.2 | 772.7 | 842.8 | 877.8  | 929.1  | 1031.9 | 1109.0 | 1121.1 |
| 145°   | 696.4 | 716.2 | 735.9 | 740.9 | 784.6 | 842.8 | 871.9  | 913.9  | 998.0  | 1061.0 | 1070.1 |
| 147.5° | 723.7 | 742.9 | 762.2 | 767.0 | 802.0 | 848.5 | 871.9  | 904.9  | 971.0  | 1020.6 | 1028.3 |
| 150°   | 741.5 | 758.9 | 776.3 | 780.6 | 811.0 | 851.6 | 871.9  | 899.8  | 955.6  | 997.5  | 1003.7 |
| 152.5° | 759.8 | 773.0 | 786.2 | 789.5 | 816.9 | 853.5 | 871.9  | 895.7  | 943.4  | 979.1  | 983.8  |
| 155°   | 787.1 | 796.8 | 806.6 | 809.1 | 830.0 | 857.9 | 871.9  | 890.8  | 928.8  | 957.2  | 960.3  |
| 157.5° | 807.2 | 816.7 | 826.2 | 828.6 | 843.0 | 862.2 | 871.9  | 886.6  | 916.1  | 938.2  | 940.4  |
| 160°   | 820.9 | 828.3 | 835.6 | 837.5 | 848.9 | 864.2 | 871.9  | 884.5  | 909.8  | 928.8  | 930.0  |
| 162.5° | 834.5 | 840.0 | 845.6 | 847.0 | 855.3 | 866.3 | 871.9  | 882.6  | 903.9  | 919.9  | 921.0  |
| 165°   | 849.3 | 854.3 | 859.3 | 860.6 | 864.3 | 869.4 | 871.9  | 879.5  | 894.8  | 906.3  | 907.5  |
| 167.5° | 863.0 | 865.4 | 867.8 | 868.3 | 871.5 | 875.7 | 877.8  | 882.8  | 892.8  | 900.4  | 900.8  |
| 170°   | 871.9 | 874.3 | 876.7 | 877.2 | 877.4 | 877.7 | 877.8  | 882.8  | 892.8  | 900.4  | 900.4  |
| 172.5° | 876.7 | 877.1 | 877.7 | 877.8 | 877.8 | 877.8 | 877.8  | 881.7  | 889.7  | 895.6  | 895.1  |
| 175°   | 883.2 | 883.2 | 883.2 | 883.2 | 881.3 | 878.9 | 877.8  | 880.3  | 885.4  | 889.1  | 889.1  |
| 177.5° | 883.2 | 883.2 | 883.2 | 883.2 | 881.7 | 879.9 | 878.9  | 881.0  | 884.9  | 887.8  | 887.4  |
| 180°   | 883.2 | 883.2 | 883.2 | 883.2 | 883.2 | 883.2 | 883.2  | 883.2  | 883.2  | 883.2  | 883.2  |



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CATALOG NUMBER: SQ4-FB-075U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 594.6  | 594.6  |
| 2.5°   | 634.8  | 631.0  |
| 5°     | 816.4  | 820.2  |
| 7.5°   | 1099.5 | 1097.6 |
| 10°    | 1367.2 | 1384.4 |
| 12.5°  | 1562.2 | 1566.0 |
| 15°    | 1680.7 | 1688.4 |
| 17.5°  | 1726.6 | 1728.5 |
| 20°    | 1728.5 | 1724.7 |
| 22.5°  | 1707.5 | 1703.7 |
| 25°    | 1682.7 | 1680.7 |
| 27.5°  | 1659.7 | 1661.6 |
| 30°    | 1650.2 | 1655.9 |
| 32.5°  | 1650.2 | 1659.7 |
| 35°    | 1654.0 | 1663.5 |
| 37.5°  | 1652.1 | 1663.5 |
| 40°    | 1644.4 | 1657.8 |
| 42.5°  | 1623.4 | 1632.9 |
| 45°    | 1590.9 | 1602.4 |
| 47.5°  | 1548.8 | 1556.5 |
| 50°    | 1495.3 | 1502.9 |
| 52.5°  | 1428.4 | 1430.3 |
| 55°    | 1348.1 | 1355.7 |
| 57.5°  | 1262.0 | 1263.9 |
| 60°    | 1166.4 | 1172.2 |
| 62.5°  | 1065.0 | 1065.0 |
| 65°    | 957.9  | 961.7  |
| 67.5°  | 847.0  | 856.6  |
| 70°    | 734.2  | 736.1  |
| 72.5°  | 623.3  | 623.3  |
| 75°    | 508.6  | 510.5  |
| 77.5°  | 399.6  | 399.6  |
| 80°    | 296.4  | 298.3  |
| 82.5°  | 204.6  | 208.4  |
| 85°    | 128.1  | 128.1  |
| 87.5°  | 59.3   | 53.5   |
| 90°    | 22.6   | 22.6   |
| 92.5°  | 90.2   | 72.3   |
| 95°    | 314.5  | 260.2  |
| 97.5°  | 753.4  | 650.2  |
| 100°   | 1085.6 | 962.6  |
| 102.5° | 1412.3 | 1306.9 |
| 105°   | 1828.7 | 1772.1 |
| 107.5° | 2101.7 | 2115.3 |
| 110°   | 2205.8 | 2264.8 |





TEST NUMBER: P937112

CATALOG NUMBER: SQ4-FB-075U-075D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 2215.0 | 2305.6 |
| 115°   | 2156.3 | 2281.9 |
| 117.5° | 2031.7 | 2171.1 |
| 120°   | 1931.4 | 2066.8 |
| 122.5° | 1833.6 | 1967.2 |
| 125°   | 1694.2 | 1817.3 |
| 127.5° | 1568.8 | 1672.6 |
| 130°   | 1494.9 | 1590.8 |
| 132.5° | 1427.9 | 1513.7 |
| 135°   | 1336.0 | 1410.0 |
| 137.5° | 1262.3 | 1322.9 |
| 140°   | 1211.8 | 1268.4 |
| 142.5° | 1169.9 | 1218.6 |
| 145°   | 1107.0 | 1143.9 |
| 147.5° | 1058.8 | 1089.4 |
| 150°   | 1028.5 | 1053.2 |
| 152.5° | 1002.5 | 1021.2 |
| 155°   | 972.7  | 985.1  |
| 157.5° | 949.1  | 957.8  |
| 160°   | 935.1  | 940.0  |
| 162.5° | 925.8  | 930.6  |
| 165°   | 912.5  | 917.5  |
| 167.5° | 902.9  | 905.0  |
| 170°   | 900.4  | 900.4  |
| 172.5° | 893.3  | 891.5  |
| 175°   | 889.1  | 889.1  |
| 177.5° | 885.3  | 883.2  |
| 180°   | 883.2  | 883.2  |



TEST NUMBER: P937112  
 CATALOG NUMBER: SQ4-FB-075U-075D-830-1D-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 | 4.02             | 4.86  | 5.01  | 5.87  | 7.22  | 17.19          | 18.04 | 18.19 | 19.05 | 20.40 |
|                 | 3H   | 4.72             | 5.48  | 5.72  | 6.50  | 7.86  | 19.03          | 19.79 | 20.04 | 20.81 | 22.18 |
|                 | 4H   | 5.02             | 5.74  | 6.03  | 6.76  | 8.13  | 19.68          | 20.40 | 20.69 | 21.42 | 22.79 |
|                 | 6H   | 5.27             | 5.93  | 6.30  | 6.96  | 8.34  | 20.11          | 20.77 | 21.13 | 21.80 | 23.18 |
|                 | 8H   | 5.33             | 5.97  | 6.37  | 7.01  | 8.39  | 20.23          | 20.86 | 21.26 | 21.91 | 23.29 |
|                 | 12H  | 5.35             | 5.95  | 6.39  | 6.99  | 8.40  | 20.29          | 20.90 | 21.33 | 21.94 | 23.34 |
| 4H              | 2H   | 11.23            | 11.95 | 12.25 | 12.97 | 14.35 | 17.47          | 18.19 | 18.49 | 19.21 | 20.58 |
|                 | 3H   | 12.79            | 13.40 | 13.83 | 14.45 | 15.84 | 19.51          | 20.11 | 20.54 | 21.17 | 22.55 |
|                 | 4H   | 12.89            | 13.44 | 13.93 | 14.49 | 15.89 | 20.28          | 20.83 | 21.32 | 21.87 | 23.28 |
|                 | 6H   | 12.90            | 13.38 | 13.95 | 14.44 | 15.85 | 20.81          | 21.29 | 21.87 | 22.36 | 23.76 |
|                 | 8H   | 12.88            | 13.32 | 13.93 | 14.38 | 15.80 | 20.98          | 21.42 | 22.03 | 22.48 | 23.90 |
|                 | 12H  | 12.83            | 13.23 | 13.90 | 14.31 | 15.73 | 21.07          | 21.47 | 22.14 | 22.55 | 23.97 |
| 8H              | 4H   | 14.33            | 14.78 | 15.38 | 15.84 | 17.26 | 20.34          | 20.78 | 21.39 | 21.84 | 23.26 |
|                 | 6H   | 14.57            | 14.94 | 15.65 | 16.04 | 17.46 | 20.96          | 21.33 | 22.04 | 22.43 | 23.85 |
|                 | 8H   | 14.59            | 14.92 | 15.67 | 16.00 | 17.44 | 21.18          | 21.51 | 22.27 | 22.59 | 24.03 |
|                 | 12H  | 14.56            | 14.85 | 15.65 | 15.93 | 17.40 | 21.33          | 21.61 | 22.42 | 22.69 | 24.17 |
| 12H             | 4H   | 14.47            | 14.88 | 15.55 | 15.95 | 17.38 | 20.29          | 20.69 | 21.36 | 21.77 | 23.19 |
|                 | 6H   | 14.83            | 15.16 | 15.92 | 16.24 | 17.68 | 20.95          | 21.27 | 22.03 | 22.36 | 23.79 |
|                 | 8H   | 14.90            | 15.19 | 15.99 | 16.27 | 17.74 | 21.18          | 21.46 | 22.26 | 22.54 | 24.02 |