

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: P938408

Luminaire Tested: SQ4-FB-150U-075D-B50-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

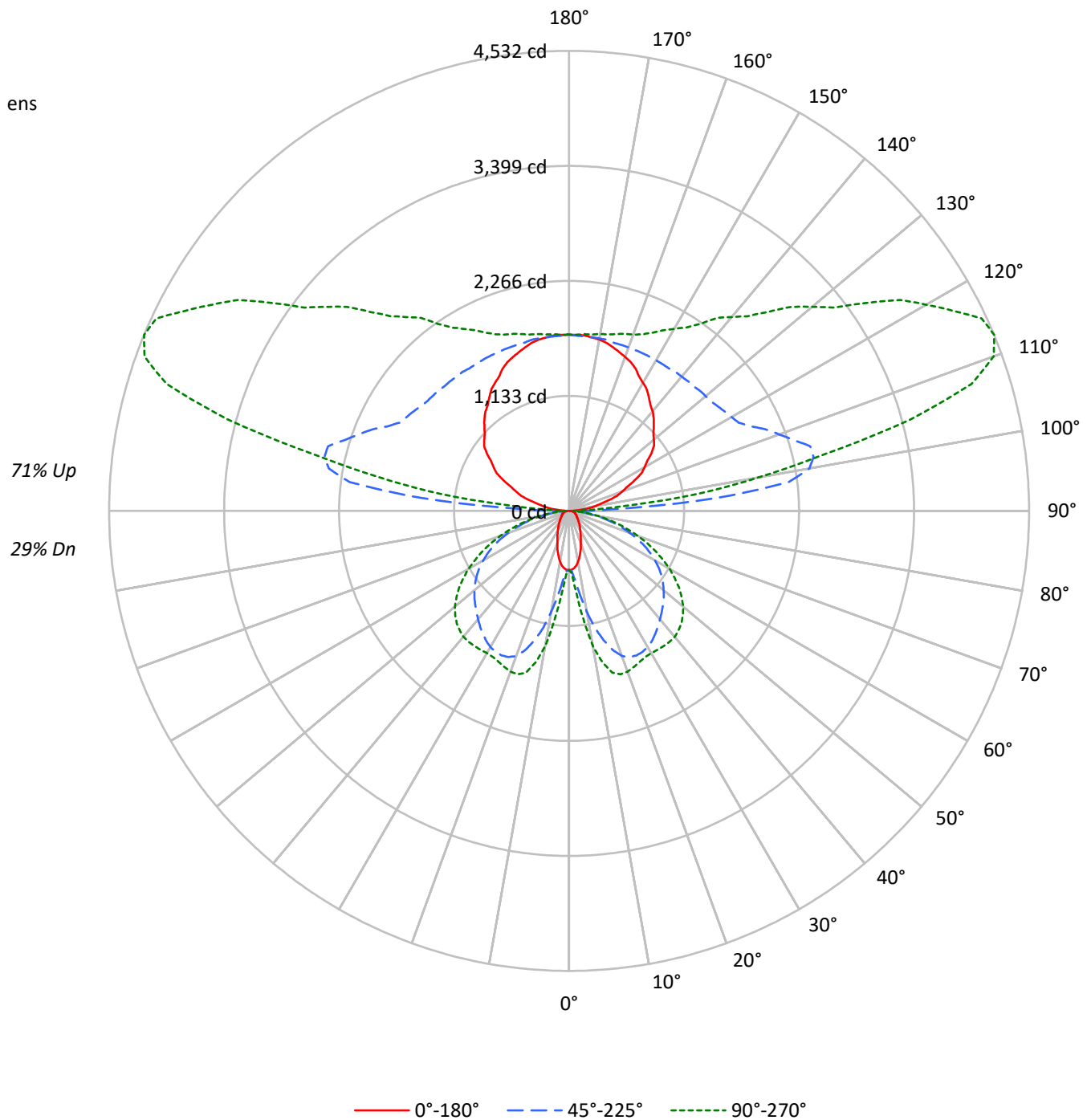
Test Method: LM-79-2019  
Report Number: P938408  
REPORT IS A COMBINATION OF REPORTS P933646 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-150U-075D-B50-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15754.7 lumens  
Efficiency: N/A  
Efficacy: 123.9 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): 127.2  
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: P938408  
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### Luminous Intensity Polar Plot





TEST NUMBER: P938408

CATALOG NUMBER: SQ4-FB-150U-075D-B50-1D-UNV-STD-W-8

**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 | 36 | 36 | 36 | 29 |    |    |    |
| 1   | 93  | 88  | 84  | 81  | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 46 | 45 | 43 | 32 | 31 | 30 | 23 |    |    |    |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 59 | 54 | 50 | 47 | 40 | 38 | 36 | 27 | 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 | 17 | 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 | 10 | 9  | 6  |    |    |    |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 18 | 14 | 17 | 13 | 11 | 12 | 9  | 8  | 6  |    |    |    |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2695 | 2695 | 2695 |
| 5°  | 2633 | 3115 | 3623 |
| 10° | 2388 | 4541 | 6007 |
| 15° | 2030 | 5933 | 7253 |
| 20° | 1652 | 6875 | 7392 |
| 25° | 1379 | 7195 | 7242 |
| 30° | 1163 | 7241 | 7228 |
| 35° | 1028 | 7120 | 7415 |
| 40° | 895  | 6964 | 7608 |
| 45° | 811  | 6850 | 7638 |
| 50° | 744  | 6747 | 7511 |
| 55° | 713  | 6596 | 7179 |
| 60° | 729  | 6306 | 6653 |
| 65° | 759  | 5866 | 5930 |
| 70° | 808  | 5116 | 5010 |
| 75° | 896  | 4171 | 3910 |
| 80° | 978  | 2893 | 2634 |
| 85° | 871  | 1535 | 1349 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7638 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 75.1    | 0.5       |
| 10°-20°   | 333.1   | 2.1       |
| 20°-30°   | 582.6   | 3.7       |
| 30°-40°   | 750.0   | 4.8       |
| 40°-50°   | 837.7   | 5.3       |
| 50°-60°   | 802.3   | 5.1       |
| 60°-70°   | 635.8   | 4.0       |
| 70°-80°   | 373.9   | 2.4       |
| 80°-90°   | 110.5   | 0.7       |
| 90°-100°  | 846.2   | 5.4       |
| 100°-110° | 2224.7  | 14.1      |
| 110°-120° | 2306.8  | 14.6      |
| 120°-130° | 1850.3  | 11.7      |
| 130°-140° | 1451.9  | 9.2       |
| 140°-150° | 1114.3  | 7.1       |
| 150°-160° | 802.5   | 5.1       |
| 160°-170° | 491.0   | 3.1       |
| 170°-180° | 165.9   | 1.1       |
| 0°-30°    | 990.8   | 6.3       |
| 0°-40°    | 1740.8  | 11.0      |
| 0°-60°    | 3380.8  | 21.5      |
| 0°-90°    | 4501.0  | 28.6      |
| 90°-120°  | 5377.7  | 34.1      |
| 90°-150°  | 9794.2  | 62.2      |
| 90°-180°  | 11254.0 | 71.4      |
| 0°-180°   | 15754.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 581  | 581   | 581  | 581   | 581  |      |
| 5°   | 566  | 607   | 684  | 773   | 801  | 52   |
| 15°  | 424  | 783   | 1319 | 1599  | 1650 | 118  |
| 25°  | 271  | 887   | 1571 | 1640  | 1642 | 125  |
| 35°  | 183  | 848   | 1480 | 1564  | 1625 | 114  |
| 45°  | 125  | 676   | 1308 | 1498  | 1566 | 97   |
| 55°  | 90   | 430   | 1110 | 1289  | 1324 | 82   |
| 65°  | 71   | 228   | 824  | 926   | 940  | 70   |
| 75°  | 52   | 140   | 452  | 497   | 499  | 55   |
| 85°  | 19   | 43    | 112  | 123   | 125  | 20   |
| 90°  | 12   | 33    | 88   | 44    | 44   | 11   |
| 95°  | 112  | 438   | 1458 | 752   | 512  | 124  |
| 105° | 401  | 607   | 2460 | 3734  | 3484 | 425  |
| 115° | 712  | 864   | 1970 | 3930  | 4486 | 703  |
| 125° | 990  | 1110  | 1792 | 3028  | 3572 | 879  |
| 135° | 1180 | 1299  | 1736 | 2444  | 2772 | 913  |
| 145° | 1369 | 1456  | 1714 | 2086  | 2249 | 858  |
| 155° | 1547 | 1590  | 1714 | 1882  | 1936 | 711  |
| 165° | 1670 | 1692  | 1714 | 1781  | 1804 | 471  |
| 175° | 1736 | 1736  | 1726 | 1748  | 1748 | 165  |
| 180° | 1736 | 1736  | 1736 | 1736  | 1736 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 580.9 | 580.9 | 580.9 | 580.9 | 580.9  | 580.9  | 580.9  | 580.9  | 580.9  | 580.9  | 580.9  |
| 2.5°   | 580.9 | 580.9 | 584.7 | 586.6 | 590.3  | 592.2  | 595.9  | 599.6  | 610.8  | 612.7  | 616.4  |
| 5°     | 566.0 | 573.5 | 597.8 | 607.1 | 633.3  | 668.7  | 683.7  | 708.0  | 758.4  | 773.4  | 782.7  |
| 7.5°   | 543.6 | 560.4 | 620.2 | 635.1 | 700.5  | 793.9  | 833.1  | 885.4  | 965.8  | 1005.0 | 1036.7 |
| 10°    | 508.1 | 543.6 | 650.1 | 685.6 | 792.0  | 934.0  | 1006.9 | 1079.8 | 1201.2 | 1255.4 | 1275.9 |
| 12.5°  | 468.9 | 526.8 | 681.8 | 730.4 | 883.6  | 1091.0 | 1178.8 | 1259.1 | 1397.4 | 1470.2 | 1481.4 |
| 15°    | 424.0 | 502.5 | 711.7 | 782.7 | 980.7  | 1221.8 | 1318.9 | 1417.9 | 1546.8 | 1599.1 | 1612.2 |
| 17.5°  | 384.8 | 483.8 | 739.7 | 814.4 | 1055.4 | 1339.4 | 1438.5 | 1520.6 | 1625.3 | 1660.7 | 1670.1 |
| 20°    | 336.2 | 453.9 | 758.4 | 855.5 | 1134.0 | 1425.4 | 1520.6 | 1584.2 | 1655.1 | 1677.6 | 1681.3 |
| 22.5°  | 300.7 | 422.2 | 769.6 | 870.5 | 1186.3 | 1477.7 | 1558.0 | 1608.4 | 1657.0 | 1664.5 | 1666.3 |
| 25°    | 270.9 | 386.7 | 767.7 | 887.3 | 1231.1 | 1509.4 | 1571.1 | 1608.4 | 1636.5 | 1640.2 | 1640.2 |
| 27.5°  | 242.8 | 347.4 | 760.3 | 891.0 | 1264.7 | 1516.9 | 1565.5 | 1591.6 | 1604.7 | 1612.2 | 1612.2 |
| 30°    | 218.6 | 310.1 | 741.6 | 883.6 | 1279.7 | 1509.4 | 1548.7 | 1561.7 | 1574.8 | 1586.0 | 1591.6 |
| 32.5°  | 199.9 | 274.6 | 713.6 | 868.6 | 1281.5 | 1490.8 | 1518.8 | 1526.2 | 1544.9 | 1571.1 | 1580.4 |
| 35°    | 183.1 | 239.1 | 681.8 | 848.1 | 1270.3 | 1460.9 | 1479.5 | 1487.0 | 1524.4 | 1563.6 | 1576.7 |
| 37.5°  | 166.3 | 213.0 | 640.7 | 812.6 | 1253.5 | 1425.4 | 1438.5 | 1451.5 | 1509.4 | 1556.1 | 1571.1 |
| 40°    | 149.4 | 190.5 | 592.2 | 773.4 | 1227.4 | 1382.4 | 1393.6 | 1414.2 | 1490.8 | 1544.9 | 1559.9 |
| 42.5°  | 136.4 | 171.9 | 539.9 | 732.3 | 1193.7 | 1333.8 | 1350.7 | 1380.5 | 1468.3 | 1526.2 | 1543.1 |
| 45°    | 125.2 | 153.2 | 483.8 | 676.2 | 1150.8 | 1283.4 | 1307.7 | 1348.8 | 1442.2 | 1498.2 | 1513.2 |
| 47.5°  | 113.9 | 140.1 | 425.9 | 618.3 | 1104.1 | 1233.0 | 1264.7 | 1311.4 | 1406.7 | 1460.9 | 1473.9 |
| 50°    | 104.6 | 127.0 | 368.0 | 556.7 | 1053.6 | 1178.8 | 1216.2 | 1264.7 | 1361.9 | 1412.3 | 1429.1 |
| 52.5°  | 97.1  | 115.8 | 313.8 | 495.0 | 995.6  | 1122.8 | 1165.7 | 1216.2 | 1307.7 | 1356.3 | 1367.5 |
| 55°    | 89.7  | 106.5 | 267.1 | 429.6 | 935.9  | 1063.0 | 1109.7 | 1158.3 | 1247.9 | 1289.0 | 1296.5 |
| 57.5°  | 85.9  | 99.0  | 227.9 | 368.0 | 872.4  | 995.6  | 1047.9 | 1092.9 | 1176.9 | 1208.7 | 1216.2 |
| 60°    | 80.3  | 93.4  | 198.0 | 315.7 | 803.2  | 932.1  | 977.0  | 1021.8 | 1092.9 | 1119.0 | 1124.6 |
| 62.5°  | 74.7  | 89.7  | 175.6 | 265.3 | 732.3  | 857.4  | 902.2  | 943.3  | 1003.1 | 1021.8 | 1029.3 |
| 65°    | 71.0  | 85.9  | 158.8 | 227.9 | 659.4  | 779.0  | 823.8  | 859.3  | 907.8  | 926.5  | 930.3  |
| 67.5°  | 67.2  | 82.2  | 145.7 | 196.1 | 586.6  | 700.5  | 734.1  | 767.7  | 805.1  | 823.8  | 825.7  |
| 70°    | 61.6  | 78.5  | 134.5 | 173.7 | 511.8  | 610.8  | 638.9  | 674.3  | 704.2  | 713.6  | 719.2  |
| 72.5°  | 57.9  | 72.9  | 127.0 | 156.9 | 435.2  | 524.9  | 551.1  | 571.6  | 597.8  | 607.1  | 607.1  |
| 75°    | 52.3  | 65.4  | 119.6 | 140.1 | 356.8  | 429.6  | 452.1  | 472.6  | 493.2  | 496.9  | 491.3  |
| 77.5°  | 46.7  | 57.9  | 102.7 | 117.7 | 278.3  | 340.0  | 358.7  | 369.9  | 386.7  | 390.4  | 392.3  |
| 80°    | 39.2  | 50.4  | 80.3  | 91.5  | 201.7  | 250.3  | 263.4  | 272.7  | 287.7  | 287.7  | 291.4  |
| 82.5°  | 29.9  | 39.2  | 57.9  | 65.4  | 136.4  | 171.9  | 183.1  | 188.7  | 198.0  | 198.0  | 198.0  |
| 85°    | 18.7  | 24.3  | 37.4  | 43.0  | 82.2   | 104.6  | 112.1  | 113.9  | 121.4  | 123.3  | 123.3  |
| 87.5°  | 9.3   | 13.1  | 24.3  | 26.2  | 43.0   | 54.2   | 54.2   | 57.9   | 57.9   | 56.0   | 54.2   |
| 90°    | 11.7  | 21.0  | 30.3  | 32.6  | 51.3   | 76.1   | 88.5   | 78.7   | 59.0   | 44.3   | 44.3   |
| 92.5°  | 46.6  | 125.8 | 205.1 | 224.9 | 316.2  | 437.9  | 498.7  | 437.0  | 313.8  | 221.4  | 212.6  |
| 95°    | 111.9 | 256.8 | 401.8 | 438.0 | 777.8  | 1230.9 | 1457.5 | 1300.6 | 986.9  | 751.5  | 724.8  |
| 97.5°  | 193.4 | 321.3 | 449.3 | 481.2 | 1047.9 | 1803.4 | 2181.1 | 2081.9 | 1883.6 | 1734.8 | 1684.1 |
| 100°   | 256.3 | 372.3 | 488.3 | 517.3 | 1146.1 | 1984.4 | 2403.6 | 2410.8 | 2425.3 | 2436.2 | 2375.7 |
| 102.5° | 309.9 | 418.2 | 526.3 | 553.4 | 1191.1 | 2041.4 | 2466.5 | 2592.9 | 2845.5 | 3035.0 | 2983.3 |
| 105°   | 400.8 | 492.4 | 584.1 | 607.0 | 1224.5 | 2047.8 | 2459.5 | 2742.8 | 3309.3 | 3734.1 | 3706.3 |
| 107.5° | 494.0 | 579.5 | 664.8 | 686.2 | 1230.7 | 1956.7 | 2319.7 | 2714.8 | 3505.0 | 4097.6 | 4104.4 |
| 110°   | 556.9 | 634.1 | 711.2 | 730.5 | 1221.4 | 1875.9 | 2203.2 | 2644.9 | 3528.3 | 4190.9 | 4219.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 618.7  | 692.2  | 765.7  | 784.1  | 1221.8 | 1805.3 | 2097.1 | 2549.2 | 3453.3 | 4131.4 | 4175.9 |
| 115°   | 711.9  | 779.7  | 847.5  | 864.5  | 1233.1 | 1724.4 | 1970.2 | 2405.6 | 3276.6 | 3929.8 | 3991.5 |
| 117.5° | 803.9  | 865.5  | 927.2  | 942.6  | 1255.9 | 1673.8 | 1882.8 | 2275.8 | 3061.8 | 3651.4 | 3719.8 |
| 120°   | 857.5  | 915.5  | 973.5  | 988.0  | 1274.6 | 1656.7 | 1847.8 | 2206.9 | 2925.2 | 3463.8 | 3530.3 |
| 122.5° | 909.9  | 968.5  | 1026.9 | 1041.6 | 1301.4 | 1647.9 | 1821.0 | 2144.4 | 2791.2 | 3276.2 | 3341.9 |
| 125°   | 990.3  | 1043.7 | 1097.0 | 1110.3 | 1337.5 | 1640.4 | 1791.9 | 2066.6 | 2615.9 | 3028.0 | 3088.5 |
| 127.5° | 1055.6 | 1109.4 | 1163.3 | 1176.7 | 1373.6 | 1636.2 | 1767.4 | 2003.2 | 2475.0 | 2828.8 | 2879.8 |
| 130°   | 1090.5 | 1148.5 | 1206.5 | 1221.0 | 1400.1 | 1638.7 | 1758.1 | 1968.0 | 2388.1 | 2703.0 | 2750.2 |
| 132.5° | 1126.7 | 1184.7 | 1242.7 | 1257.2 | 1421.5 | 1640.5 | 1749.9 | 1937.9 | 2313.8 | 2595.8 | 2638.0 |
| 135°   | 1180.2 | 1233.1 | 1285.9 | 1299.1 | 1444.7 | 1638.9 | 1735.9 | 1893.4 | 2208.3 | 2444.4 | 2480.7 |
| 137.5° | 1235.0 | 1287.3 | 1339.5 | 1352.6 | 1479.6 | 1649.0 | 1733.7 | 1866.8 | 2132.9 | 2332.5 | 2362.3 |
| 140°   | 1280.4 | 1328.6 | 1376.7 | 1388.8 | 1501.0 | 1650.7 | 1725.5 | 1840.4 | 2070.4 | 2242.8 | 2270.6 |
| 142.5° | 1315.4 | 1359.9 | 1404.5 | 1415.6 | 1518.9 | 1656.6 | 1725.5 | 1826.4 | 2028.4 | 2179.9 | 2203.8 |
| 145°   | 1369.0 | 1407.8 | 1446.7 | 1456.4 | 1542.2 | 1656.6 | 1713.8 | 1796.4 | 1961.6 | 2085.5 | 2103.6 |
| 147.5° | 1422.6 | 1460.4 | 1498.2 | 1507.7 | 1576.4 | 1668.0 | 1713.8 | 1778.8 | 1908.7 | 2006.2 | 2021.3 |
| 150°   | 1457.5 | 1491.7 | 1525.9 | 1534.4 | 1594.2 | 1673.9 | 1713.8 | 1768.7 | 1878.5 | 1960.8 | 1973.0 |
| 152.5° | 1493.7 | 1519.5 | 1545.5 | 1551.9 | 1605.9 | 1677.8 | 1713.8 | 1760.7 | 1854.4 | 1924.7 | 1933.8 |
| 155°   | 1547.3 | 1566.4 | 1585.6 | 1590.3 | 1631.5 | 1686.3 | 1713.8 | 1751.1 | 1825.7 | 1881.6 | 1887.7 |
| 157.5° | 1586.9 | 1605.5 | 1624.1 | 1628.8 | 1657.1 | 1694.9 | 1713.8 | 1742.8 | 1800.8 | 1844.4 | 1848.7 |
| 160°   | 1613.7 | 1628.1 | 1642.6 | 1646.3 | 1668.8 | 1698.8 | 1713.8 | 1738.6 | 1788.4 | 1825.7 | 1828.1 |
| 162.5° | 1640.5 | 1651.3 | 1662.2 | 1664.9 | 1681.2 | 1703.0 | 1713.8 | 1734.8 | 1776.7 | 1808.2 | 1810.6 |
| 165°   | 1669.5 | 1679.3 | 1689.2 | 1691.7 | 1699.0 | 1708.8 | 1713.8 | 1728.8 | 1758.9 | 1781.4 | 1783.8 |
| 167.5° | 1696.3 | 1701.0 | 1705.7 | 1706.9 | 1713.0 | 1721.4 | 1725.5 | 1735.3 | 1755.0 | 1769.7 | 1770.8 |
| 170°   | 1713.8 | 1718.5 | 1723.1 | 1724.4 | 1724.7 | 1725.2 | 1725.5 | 1735.3 | 1755.0 | 1769.7 | 1769.7 |
| 172.5° | 1723.1 | 1724.2 | 1725.2 | 1725.5 | 1725.5 | 1725.5 | 1725.5 | 1733.2 | 1748.7 | 1760.4 | 1759.5 |
| 175°   | 1735.9 | 1735.9 | 1735.9 | 1735.9 | 1732.5 | 1727.8 | 1725.5 | 1730.4 | 1740.2 | 1747.6 | 1747.6 |
| 177.5° | 1735.9 | 1735.9 | 1735.9 | 1735.9 | 1733.2 | 1729.6 | 1727.8 | 1731.7 | 1739.5 | 1745.3 | 1744.2 |
| 180°   | 1735.9 | 1735.9 | 1735.9 | 1735.9 | 1735.9 | 1735.9 | 1735.9 | 1735.9 | 1735.9 | 1735.9 | 1735.9 |



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CATALOG NUMBER: SQ4-FB-150U-075D-B50-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 580.9  | 580.9  |
| 2.5°   | 620.2  | 616.4  |
| 5°     | 797.6  | 801.4  |
| 7.5°   | 1074.2 | 1072.3 |
| 10°    | 1335.7 | 1352.5 |
| 12.5°  | 1526.2 | 1530.0 |
| 15°    | 1642.1 | 1649.5 |
| 17.5°  | 1686.9 | 1688.8 |
| 20°    | 1688.8 | 1685.0 |
| 22.5°  | 1668.2 | 1664.5 |
| 25°    | 1643.9 | 1642.1 |
| 27.5°  | 1621.5 | 1623.4 |
| 30°    | 1612.2 | 1617.8 |
| 32.5°  | 1612.2 | 1621.5 |
| 35°    | 1615.9 | 1625.3 |
| 37.5°  | 1614.0 | 1625.3 |
| 40°    | 1606.6 | 1619.6 |
| 42.5°  | 1586.0 | 1595.4 |
| 45°    | 1554.3 | 1565.5 |
| 47.5°  | 1513.2 | 1520.6 |
| 50°    | 1460.9 | 1468.3 |
| 52.5°  | 1395.5 | 1397.4 |
| 55°    | 1317.0 | 1324.5 |
| 57.5°  | 1233.0 | 1234.8 |
| 60°    | 1139.6 | 1145.2 |
| 62.5°  | 1040.5 | 1040.5 |
| 65°    | 935.9  | 939.6  |
| 67.5°  | 827.5  | 836.9  |
| 70°    | 717.3  | 719.2  |
| 72.5°  | 609.0  | 609.0  |
| 75°    | 496.9  | 498.8  |
| 77.5°  | 390.4  | 390.4  |
| 80°    | 289.5  | 291.4  |
| 82.5°  | 199.9  | 203.6  |
| 85°    | 125.2  | 125.2  |
| 87.5°  | 57.9   | 52.3   |
| 90°    | 44.3   | 44.3   |
| 92.5°  | 177.4  | 142.2  |
| 95°    | 618.1  | 511.5  |
| 97.5°  | 1481.0 | 1278.1 |
| 100°   | 2133.9 | 1892.1 |
| 102.5° | 2776.1 | 2569.1 |
| 105°   | 3595.0 | 3483.6 |
| 107.5° | 4131.3 | 4158.2 |
| 110°   | 4335.8 | 4451.8 |





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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 4354.0 | 4532.1 |
| 115°   | 4238.6 | 4485.5 |
| 117.5° | 3993.8 | 4267.7 |
| 120°   | 3796.5 | 4062.6 |
| 122.5° | 3604.4 | 3866.9 |
| 125°   | 3330.4 | 3572.2 |
| 127.5° | 3083.9 | 3287.9 |
| 130°   | 2938.6 | 3127.1 |
| 132.5° | 2806.8 | 2975.6 |
| 135°   | 2626.2 | 2771.7 |
| 137.5° | 2481.4 | 2600.4 |
| 140°   | 2382.0 | 2493.3 |
| 142.5° | 2299.6 | 2395.4 |
| 145°   | 2176.1 | 2248.6 |
| 147.5° | 2081.3 | 2141.4 |
| 150°   | 2021.7 | 2070.4 |
| 152.5° | 1970.6 | 2007.4 |
| 155°   | 1912.1 | 1936.4 |
| 157.5° | 1865.7 | 1882.8 |
| 160°   | 1838.0 | 1847.8 |
| 162.5° | 1819.8 | 1829.1 |
| 165°   | 1793.7 | 1803.6 |
| 167.5° | 1775.0 | 1779.1 |
| 170°   | 1769.7 | 1769.7 |
| 172.5° | 1755.9 | 1752.3 |
| 175°   | 1747.6 | 1747.6 |
| 177.5° | 1740.0 | 1735.9 |
| 180°   | 1735.9 | 1735.9 |



TEST NUMBER: P938408  
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**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 | 2.06             | 2.78  | 3.18  | 3.89  | 5.44  | 15.24          | 15.96 | 16.36 | 17.07 | 18.62 |
|                 | 3H   | 2.76             | 3.40  | 3.88  | 4.52  | 6.08  | 17.07          | 17.71 | 18.19 | 18.83 | 20.39 |
|                 | 4H   | 3.05             | 3.66  | 4.18  | 4.78  | 6.35  | 17.71          | 18.32 | 18.84 | 19.44 | 21.01 |
|                 | 6H   | 3.29             | 3.85  | 4.43  | 4.98  | 6.56  | 18.13          | 18.69 | 19.27 | 19.82 | 21.40 |
|                 | 8H   | 3.35             | 3.89  | 4.50  | 5.03  | 6.60  | 18.25          | 18.78 | 19.39 | 19.92 | 21.49 |
|                 | 12H  | 3.37             | 3.87  | 4.52  | 5.01  | 6.60  | 18.31          | 18.82 | 19.46 | 19.95 | 21.55 |
| 4H              | 2H   | 9.26             | 9.87  | 10.40 | 10.99 | 12.56 | 15.50          | 16.11 | 16.64 | 17.23 | 18.80 |
|                 | 3H   | 10.81            | 11.32 | 11.96 | 12.47 | 14.05 | 17.53          | 18.04 | 18.68 | 19.19 | 20.77 |
|                 | 4H   | 10.90            | 11.37 | 12.05 | 12.51 | 14.11 | 18.29          | 18.76 | 19.44 | 19.90 | 21.49 |
|                 | 6H   | 10.90            | 11.30 | 12.06 | 12.47 | 14.05 | 18.82          | 19.22 | 19.98 | 20.38 | 21.97 |
|                 | 8H   | 10.87            | 11.25 | 12.03 | 12.40 | 14.01 | 18.98          | 19.35 | 20.13 | 20.51 | 22.11 |
|                 | 12H  | 10.82            | 11.17 | 12.00 | 12.33 | 13.94 | 19.06          | 19.40 | 20.24 | 20.57 | 22.18 |
| 8H              | 4H   | 12.33            | 12.71 | 13.49 | 13.86 | 15.47 | 18.34          | 18.71 | 19.49 | 19.86 | 21.47 |
|                 | 6H   | 12.57            | 12.88 | 13.74 | 14.07 | 15.68 | 18.96          | 19.27 | 20.13 | 20.46 | 22.07 |
|                 | 8H   | 12.58            | 12.85 | 13.77 | 14.03 | 15.65 | 19.18          | 19.45 | 20.36 | 20.62 | 22.24 |
|                 | 12H  | 12.54            | 12.78 | 13.73 | 13.95 | 15.61 | 19.31          | 19.55 | 20.50 | 20.72 | 22.38 |
| 12H             | 4H   | 12.47            | 12.81 | 13.64 | 13.97 | 15.58 | 18.28          | 18.62 | 19.45 | 19.79 | 21.40 |
|                 | 6H   | 12.82            | 13.10 | 14.01 | 14.27 | 15.89 | 18.94          | 19.21 | 20.12 | 20.38 | 22.01 |
|                 | 8H   | 12.89            | 13.12 | 14.07 | 14.30 | 15.95 | 19.16          | 19.40 | 20.35 | 20.57 | 22.23 |