

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: P938297

Luminaire Tested: SQ4-FB-150U-050D-B35-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P938297  
REPORT IS A COMBINATION OF REPORTS P933621 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-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

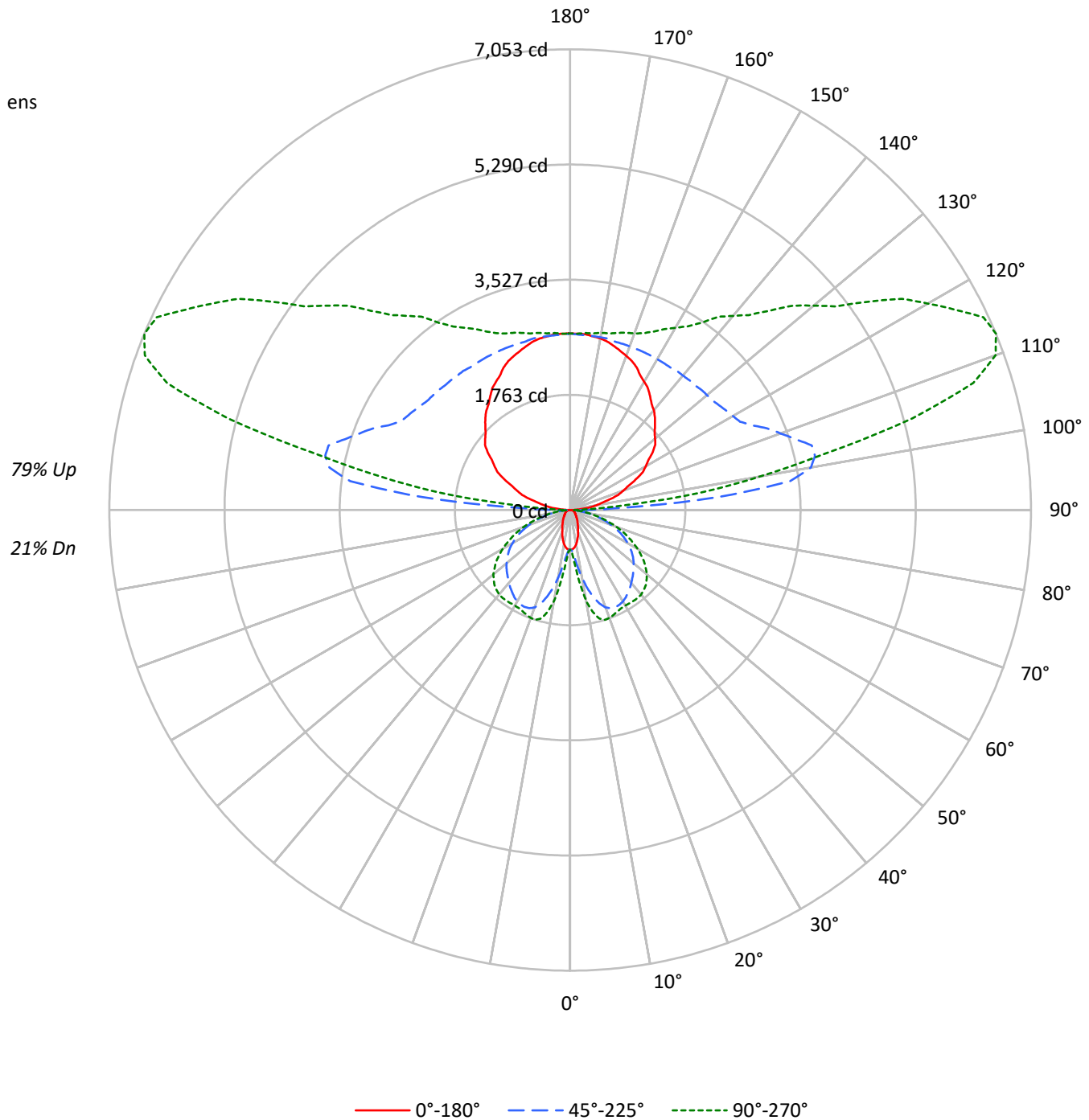
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22214.3 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: 12' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 166.8  
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: P938297  
CATALOG NUMBER: SQ4-FB-150U-050D-B35-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P938297

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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°  | 1876 | 1876 | 1876 |
| 5°  | 1833 | 2168 | 2521 |
| 10° | 1663 | 3161 | 4179 |
| 15° | 1414 | 4132 | 5047 |
| 20° | 1152 | 4789 | 5143 |
| 25° | 961  | 5012 | 5039 |
| 30° | 811  | 5046 | 5029 |
| 35° | 717  | 4963 | 5159 |
| 40° | 626  | 4856 | 5294 |
| 45° | 567  | 4777 | 5315 |
| 50° | 520  | 4707 | 5227 |
| 55° | 499  | 4603 | 4995 |
| 60° | 511  | 4404 | 4629 |
| 65° | 533  | 4099 | 4126 |
| 70° | 568  | 3577 | 3486 |
| 75° | 633  | 2918 | 2720 |
| 80° | 697  | 2027 | 1833 |
| 85° | 632  | 1077 | 938  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 6718 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 78.4    | 0.4       |
| 10°-20°   | 347.6   | 1.6       |
| 20°-30°   | 608.1   | 2.7       |
| 30°-40°   | 782.8   | 3.5       |
| 40°-50°   | 874.3   | 3.9       |
| 50°-60°   | 837.4   | 3.8       |
| 60°-70°   | 663.6   | 3.0       |
| 70°-80°   | 390.2   | 1.8       |
| 80°-90°   | 118.7   | 0.5       |
| 90°-100°  | 1316.9  | 5.9       |
| 100°-110° | 3462.1  | 15.6      |
| 110°-120° | 3589.9  | 16.2      |
| 120°-130° | 2879.5  | 13.0      |
| 130°-140° | 2259.4  | 10.2      |
| 140°-150° | 1734.2  | 7.8       |
| 150°-160° | 1248.9  | 5.6       |
| 160°-170° | 764.1   | 3.4       |
| 170°-180° | 258.2   | 1.2       |
| 0°-30°    | 1034.2  | 4.7       |
| 0°-40°    | 1816.9  | 8.2       |
| 0°-60°    | 3528.6  | 15.9      |
| 0°-90°    | 4701.2  | 21.2      |
| 90°-120°  | 8368.8  | 37.7      |
| 90°-150°  | 15241.9 | 68.6      |
| 90°-180°  | 17513.0 | 78.8      |
| 0°-180°   | 22214.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 606  | 606   | 606  | 606   | 606  |      |
| 5°   | 591  | 634   | 714  | 807   | 836  | 55   |
| 15°  | 443  | 817   | 1377 | 1669  | 1722 | 123  |
| 25°  | 283  | 926   | 1640 | 1712  | 1714 | 130  |
| 35°  | 191  | 885   | 1544 | 1632  | 1696 | 119  |
| 45°  | 131  | 706   | 1365 | 1564  | 1634 | 101  |
| 55°  | 94   | 448   | 1158 | 1345  | 1382 | 85   |
| 65°  | 74   | 238   | 860  | 967   | 981  | 73   |
| 75°  | 55   | 146   | 472  | 519   | 520  | 57   |
| 85°  | 20   | 45    | 117  | 129   | 131  | 21   |
| 90°  | 18   | 51    | 138  | 69    | 69   | 16   |
| 95°  | 174  | 682   | 2268 | 1170  | 796  | 193  |
| 105° | 624  | 945   | 3828 | 5811  | 5421 | 661  |
| 115° | 1108 | 1345  | 3066 | 6116  | 6980 | 1094 |
| 125° | 1541 | 1728  | 2789 | 4712  | 5559 | 1368 |
| 135° | 1837 | 2022  | 2702 | 3804  | 4313 | 1421 |
| 145° | 2130 | 2266  | 2667 | 3246  | 3499 | 1335 |
| 155° | 2408 | 2475  | 2667 | 2928  | 3013 | 1106 |
| 165° | 2598 | 2633  | 2667 | 2772  | 2807 | 733  |
| 175° | 2702 | 2702  | 2685 | 2720  | 2720 | 256  |
| 180° | 2702 | 2702  | 2702 | 2702  | 2702 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 606.4 | 606.4 | 606.4  | 606.4  | 606.4  | 606.4  | 606.4  | 606.4  | 606.4  | 606.4  | 606.4  |
| 2.5°   | 606.4 | 606.4 | 610.3  | 612.2  | 616.1  | 618.0  | 622.0  | 625.9  | 637.6  | 639.5  | 643.4  |
| 5°     | 590.8 | 598.6 | 623.9  | 633.6  | 661.0  | 698.0  | 713.6  | 739.0  | 791.6  | 807.2  | 817.0  |
| 7.5°   | 567.3 | 584.9 | 647.3  | 662.9  | 731.2  | 828.7  | 869.6  | 924.2  | 1008.1 | 1048.9 | 1082.1 |
| 10°    | 530.3 | 567.3 | 678.5  | 715.6  | 826.7  | 974.9  | 1050.9 | 1126.9 | 1253.7 | 1310.3 | 1331.7 |
| 12.5°  | 489.3 | 549.8 | 711.6  | 762.3  | 922.2  | 1138.7 | 1230.3 | 1314.2 | 1458.4 | 1534.5 | 1546.1 |
| 15°    | 442.6 | 524.5 | 742.8  | 817.0  | 1023.7 | 1275.1 | 1376.6 | 1479.9 | 1614.5 | 1669.0 | 1682.7 |
| 17.5°  | 401.7 | 504.9 | 772.1  | 850.1  | 1101.7 | 1398.0 | 1501.3 | 1587.1 | 1696.3 | 1733.3 | 1743.1 |
| 20°    | 351.0 | 473.8 | 791.6  | 893.0  | 1183.5 | 1487.7 | 1587.1 | 1653.4 | 1727.5 | 1750.9 | 1754.8 |
| 22.5°  | 314.0 | 440.6 | 803.3  | 908.6  | 1238.1 | 1542.3 | 1626.1 | 1678.8 | 1729.5 | 1737.2 | 1739.2 |
| 25°    | 282.8 | 403.6 | 801.4  | 926.2  | 1284.9 | 1575.4 | 1639.7 | 1678.8 | 1708.0 | 1711.9 | 1711.9 |
| 27.5°  | 253.5 | 362.7 | 793.5  | 930.0  | 1320.0 | 1583.2 | 1633.9 | 1661.2 | 1674.8 | 1682.7 | 1682.7 |
| 30°    | 228.1 | 323.6 | 774.0  | 922.2  | 1335.6 | 1575.4 | 1616.4 | 1630.1 | 1643.6 | 1655.3 | 1661.2 |
| 32.5°  | 208.6 | 286.6 | 744.8  | 906.6  | 1337.5 | 1555.9 | 1585.2 | 1592.9 | 1612.4 | 1639.7 | 1649.5 |
| 35°    | 191.1 | 249.6 | 711.6  | 885.2  | 1325.9 | 1524.7 | 1544.2 | 1552.0 | 1591.0 | 1632.0 | 1645.6 |
| 37.5°  | 173.5 | 222.3 | 668.8  | 848.2  | 1308.2 | 1487.7 | 1501.3 | 1514.9 | 1575.4 | 1624.1 | 1639.7 |
| 40°    | 156.0 | 198.8 | 618.0  | 807.2  | 1281.0 | 1442.8 | 1454.6 | 1476.0 | 1555.9 | 1612.4 | 1628.0 |
| 42.5°  | 142.3 | 179.4 | 563.5  | 764.3  | 1245.9 | 1392.2 | 1409.7 | 1440.9 | 1532.5 | 1592.9 | 1610.5 |
| 45°    | 130.6 | 159.9 | 504.9  | 705.8  | 1201.1 | 1339.4 | 1364.8 | 1407.8 | 1505.2 | 1563.7 | 1579.3 |
| 47.5°  | 118.9 | 146.2 | 444.6  | 645.4  | 1152.3 | 1286.8 | 1320.0 | 1368.7 | 1468.1 | 1524.7 | 1538.4 |
| 50°    | 109.2 | 132.6 | 384.1  | 581.0  | 1099.6 | 1230.3 | 1269.3 | 1320.0 | 1421.4 | 1474.0 | 1491.6 |
| 52.5°  | 101.4 | 120.9 | 327.5  | 516.7  | 1039.3 | 1171.8 | 1216.7 | 1269.3 | 1364.8 | 1415.5 | 1427.2 |
| 55°    | 93.6  | 111.1 | 278.8  | 448.5  | 976.8  | 1109.4 | 1158.1 | 1208.8 | 1302.4 | 1345.4 | 1353.1 |
| 57.5°  | 89.7  | 103.3 | 237.9  | 384.1  | 910.6  | 1039.3 | 1093.8 | 1140.6 | 1228.3 | 1261.5 | 1269.3 |
| 60°    | 83.8  | 97.5  | 206.7  | 329.6  | 838.4  | 973.0  | 1019.8 | 1066.5 | 1140.6 | 1167.9 | 1173.7 |
| 62.5°  | 78.0  | 93.6  | 183.2  | 276.8  | 764.3  | 895.0  | 941.8  | 984.6  | 1047.0 | 1066.5 | 1074.3 |
| 65°    | 74.1  | 89.7  | 165.7  | 237.9  | 688.3  | 813.1  | 859.9  | 896.9  | 947.6  | 967.1  | 970.9  |
| 67.5°  | 70.2  | 85.8  | 152.0  | 204.7  | 612.2  | 731.2  | 766.3  | 801.4  | 840.3  | 859.9  | 861.8  |
| 70°    | 64.3  | 81.9  | 140.4  | 181.3  | 534.2  | 637.6  | 666.9  | 703.9  | 735.1  | 744.8  | 750.7  |
| 72.5°  | 60.5  | 76.1  | 132.6  | 163.8  | 454.3  | 547.9  | 575.2  | 596.6  | 623.9  | 633.6  | 633.6  |
| 75°    | 54.6  | 68.2  | 124.8  | 146.2  | 372.4  | 448.5  | 471.8  | 493.3  | 514.7  | 518.6  | 512.8  |
| 77.5°  | 48.7  | 60.5  | 107.3  | 122.9  | 290.5  | 354.8  | 374.3  | 386.0  | 403.6  | 407.5  | 409.4  |
| 80°    | 41.0  | 52.6  | 83.8   | 95.5   | 210.6  | 261.2  | 274.9  | 284.7  | 300.3  | 300.3  | 304.2  |
| 82.5°  | 31.2  | 41.0  | 60.5   | 68.2   | 142.3  | 179.4  | 191.1  | 196.9  | 206.7  | 206.7  | 206.7  |
| 85°    | 19.5  | 25.4  | 39.0   | 44.9   | 85.8   | 109.2  | 117.0  | 118.9  | 126.7  | 128.7  | 128.7  |
| 87.5°  | 9.8   | 13.7  | 25.4   | 27.3   | 44.9   | 56.6   | 56.6   | 60.5   | 60.5   | 58.5   | 56.6   |
| 90°    | 18.1  | 32.7  | 47.2   | 50.8   | 79.7   | 118.4  | 137.8  | 122.5  | 91.9   | 68.9   | 68.9   |
| 92.5°  | 72.5  | 195.7 | 319.1  | 349.9  | 492.0  | 681.3  | 776.0  | 680.0  | 488.3  | 344.5  | 330.8  |
| 95°    | 174.0 | 399.6 | 625.3  | 681.7  | 1210.6 | 1915.7 | 2268.2 | 2024.0 | 1535.8 | 1169.5 | 1128.0 |
| 97.5°  | 301.0 | 500.0 | 699.0  | 748.8  | 1630.6 | 2806.3 | 3394.1 | 3239.9 | 2931.2 | 2699.7 | 2620.8 |
| 100°   | 398.8 | 579.4 | 759.9  | 805.0  | 1783.5 | 3088.1 | 3740.4 | 3751.7 | 3774.3 | 3791.2 | 3697.1 |
| 102.5° | 482.3 | 650.7 | 819.1  | 861.2  | 1853.6 | 3176.8 | 3838.4 | 4035.0 | 4428.2 | 4723.2 | 4642.6 |
| 105°   | 623.7 | 766.4 | 909.0  | 944.7  | 1905.6 | 3186.8 | 3827.5 | 4268.3 | 5149.8 | 5811.0 | 5767.7 |
| 107.5° | 768.8 | 901.8 | 1034.7 | 1067.9 | 1915.2 | 3045.0 | 3609.9 | 4224.7 | 5454.4 | 6376.7 | 6387.2 |
| 110°   | 866.7 | 986.7 | 1106.8 | 1136.8 | 1900.8 | 2919.3 | 3428.6 | 4116.0 | 5490.7 | 6521.8 | 6566.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 962.8  | 1077.2 | 1191.7 | 1220.3 | 1901.4 | 2809.5 | 3263.6 | 3967.1 | 5374.1 | 6429.3 | 6498.6 |
| 115°   | 1107.9 | 1213.4 | 1319.0 | 1345.4 | 1918.9 | 2683.6 | 3066.0 | 3743.7 | 5099.1 | 6115.6 | 6211.8 |
| 117.5° | 1251.1 | 1346.9 | 1442.8 | 1466.8 | 1954.5 | 2604.8 | 2930.0 | 3541.6 | 4764.9 | 5682.3 | 5788.9 |
| 120°   | 1334.4 | 1424.7 | 1514.9 | 1537.5 | 1983.5 | 2578.2 | 2875.6 | 3434.4 | 4552.1 | 5390.4 | 5493.9 |
| 122.5° | 1416.0 | 1507.1 | 1598.2 | 1620.9 | 2025.3 | 2564.4 | 2833.9 | 3337.1 | 4343.6 | 5098.5 | 5200.6 |
| 125°   | 1541.2 | 1624.1 | 1707.2 | 1727.9 | 2081.5 | 2552.9 | 2788.6 | 3216.1 | 4071.1 | 4712.2 | 4806.3 |
| 127.5° | 1642.6 | 1726.5 | 1810.3 | 1831.2 | 2137.6 | 2546.2 | 2750.5 | 3117.6 | 3851.7 | 4402.3 | 4481.6 |
| 130°   | 1697.1 | 1787.3 | 1877.5 | 1900.1 | 2178.7 | 2550.2 | 2736.0 | 3062.7 | 3716.3 | 4206.4 | 4279.8 |
| 132.5° | 1753.3 | 1843.5 | 1933.7 | 1956.3 | 2211.9 | 2552.8 | 2723.3 | 3015.8 | 3600.9 | 4039.7 | 4105.4 |
| 135°   | 1836.6 | 1918.8 | 2001.1 | 2021.6 | 2248.3 | 2550.5 | 2701.6 | 2946.5 | 3436.5 | 3803.9 | 3860.5 |
| 137.5° | 1921.9 | 2003.3 | 2084.7 | 2105.1 | 2302.6 | 2566.1 | 2697.9 | 2905.0 | 3319.2 | 3629.9 | 3676.2 |
| 140°   | 1992.7 | 2067.6 | 2142.6 | 2161.3 | 2335.9 | 2568.7 | 2685.2 | 2864.1 | 3221.9 | 3490.2 | 3533.6 |
| 142.5° | 2047.0 | 2116.3 | 2185.6 | 2202.9 | 2363.7 | 2578.0 | 2685.2 | 2842.4 | 3156.6 | 3392.4 | 3429.7 |
| 145°   | 2130.4 | 2190.9 | 2251.3 | 2266.4 | 2399.9 | 2578.0 | 2667.1 | 2795.6 | 3052.6 | 3245.5 | 3273.7 |
| 147.5° | 2213.8 | 2272.6 | 2331.4 | 2346.1 | 2453.1 | 2595.8 | 2667.1 | 2768.2 | 2970.5 | 3122.2 | 3145.6 |
| 150°   | 2268.2 | 2321.4 | 2374.6 | 2387.9 | 2480.9 | 2605.1 | 2667.1 | 2752.5 | 2923.4 | 3051.5 | 3070.4 |
| 152.5° | 2324.4 | 2364.7 | 2405.0 | 2415.0 | 2499.1 | 2611.1 | 2667.1 | 2740.0 | 2885.9 | 2995.3 | 3009.6 |
| 155°   | 2407.9 | 2437.7 | 2467.5 | 2474.9 | 2539.0 | 2624.3 | 2667.1 | 2725.1 | 2841.2 | 2928.2 | 2937.7 |
| 157.5° | 2469.5 | 2498.5 | 2527.4 | 2534.7 | 2578.8 | 2637.6 | 2667.1 | 2712.2 | 2802.4 | 2870.2 | 2876.9 |
| 160°   | 2511.2 | 2533.7 | 2556.3 | 2561.9 | 2597.0 | 2643.7 | 2667.1 | 2705.7 | 2783.1 | 2841.1 | 2845.0 |
| 162.5° | 2552.8 | 2569.8 | 2586.6 | 2590.9 | 2616.3 | 2650.1 | 2667.1 | 2699.7 | 2765.0 | 2814.0 | 2817.6 |
| 165°   | 2598.2 | 2613.5 | 2628.8 | 2632.7 | 2644.1 | 2659.4 | 2667.1 | 2690.4 | 2737.1 | 2772.2 | 2776.1 |
| 167.5° | 2639.9 | 2647.2 | 2654.4 | 2656.2 | 2665.9 | 2678.8 | 2685.2 | 2700.5 | 2731.1 | 2754.1 | 2755.7 |
| 170°   | 2667.1 | 2674.3 | 2681.6 | 2683.5 | 2684.0 | 2684.8 | 2685.2 | 2700.5 | 2731.1 | 2754.1 | 2754.1 |
| 172.5° | 2681.6 | 2683.2 | 2684.8 | 2685.2 | 2685.2 | 2685.2 | 2685.2 | 2697.3 | 2721.5 | 2739.7 | 2738.2 |
| 175°   | 2701.6 | 2701.6 | 2701.6 | 2701.6 | 2696.1 | 2688.9 | 2685.2 | 2692.9 | 2708.2 | 2719.7 | 2719.7 |
| 177.5° | 2701.6 | 2701.6 | 2701.6 | 2701.6 | 2697.3 | 2691.7 | 2688.9 | 2694.9 | 2707.0 | 2716.0 | 2714.4 |
| 180°   | 2701.6 | 2701.6 | 2701.6 | 2701.6 | 2701.6 | 2701.6 | 2701.6 | 2701.6 | 2701.6 | 2701.6 | 2701.6 |



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CATALOG NUMBER: SQ4-FB-150U-050D-B35-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 606.4  | 606.4  |
| 2.5°   | 647.3  | 643.4  |
| 5°     | 832.6  | 836.4  |
| 7.5°   | 1121.1 | 1119.2 |
| 10°    | 1394.1 | 1411.6 |
| 12.5°  | 1592.9 | 1596.8 |
| 15°    | 1713.9 | 1721.6 |
| 17.5°  | 1760.7 | 1762.6 |
| 20°    | 1762.6 | 1758.7 |
| 22.5°  | 1741.1 | 1737.2 |
| 25°    | 1715.8 | 1713.9 |
| 27.5°  | 1692.4 | 1694.4 |
| 30°    | 1682.7 | 1688.5 |
| 32.5°  | 1682.7 | 1692.4 |
| 35°    | 1686.5 | 1696.3 |
| 37.5°  | 1684.6 | 1696.3 |
| 40°    | 1676.8 | 1690.4 |
| 42.5°  | 1655.3 | 1665.1 |
| 45°    | 1622.2 | 1633.9 |
| 47.5°  | 1579.3 | 1587.1 |
| 50°    | 1524.7 | 1532.5 |
| 52.5°  | 1456.5 | 1458.4 |
| 55°    | 1374.6 | 1382.4 |
| 57.5°  | 1286.8 | 1288.8 |
| 60°    | 1189.4 | 1195.2 |
| 62.5°  | 1086.1 | 1086.1 |
| 65°    | 976.8  | 980.7  |
| 67.5°  | 863.8  | 873.5  |
| 70°    | 748.7  | 750.7  |
| 72.5°  | 635.7  | 635.7  |
| 75°    | 518.6  | 520.5  |
| 77.5°  | 407.5  | 407.5  |
| 80°    | 302.2  | 304.2  |
| 82.5°  | 208.6  | 212.5  |
| 85°    | 130.6  | 130.6  |
| 87.5°  | 60.5   | 54.6   |
| 90°    | 68.9   | 68.9   |
| 92.5°  | 276.0  | 221.2  |
| 95°    | 961.9  | 795.9  |
| 97.5°  | 2304.9 | 1989.0 |
| 100°   | 3320.9 | 2944.5 |
| 102.5° | 4320.3 | 3997.9 |
| 105°   | 5594.5 | 5421.3 |
| 107.5° | 6429.1 | 6471.0 |
| 110°   | 6747.4 | 6928.0 |





TEST NUMBER: P938297

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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 6775.8 | 7053.1 |
| 115°   | 6596.1 | 6980.5 |
| 117.5° | 6215.2 | 6641.4 |
| 120°   | 5908.1 | 6322.3 |
| 122.5° | 5609.3 | 6017.8 |
| 125°   | 5182.7 | 5559.1 |
| 127.5° | 4799.2 | 5116.6 |
| 130°   | 4573.1 | 4866.4 |
| 132.5° | 4368.0 | 4630.7 |
| 135°   | 4087.0 | 4313.4 |
| 137.5° | 3861.6 | 4046.8 |
| 140°   | 3706.8 | 3880.1 |
| 142.5° | 3578.7 | 3727.7 |
| 145°   | 3386.6 | 3499.3 |
| 147.5° | 3239.1 | 3332.5 |
| 150°   | 3146.1 | 3221.9 |
| 152.5° | 3066.8 | 3124.0 |
| 155°   | 2975.5 | 3013.4 |
| 157.5° | 2903.4 | 2930.0 |
| 160°   | 2860.3 | 2875.6 |
| 162.5° | 2832.1 | 2846.6 |
| 165°   | 2791.4 | 2806.7 |
| 167.5° | 2762.1 | 2768.6 |
| 170°   | 2754.1 | 2754.1 |
| 172.5° | 2732.6 | 2727.0 |
| 175°   | 2719.7 | 2719.7 |
| 177.5° | 2708.0 | 2701.6 |
| 180°   | 2701.6 | 2701.6 |



TEST NUMBER: P938297  
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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 | 0.00             | 0.29  | 0.79  | 1.44  | 3.07  | 12.81          | 13.48 | 13.98 | 14.63 | 16.26 |
|                 | 3H   | 0.31             | 0.91  | 1.48  | 2.07  | 3.71  | 14.64          | 15.24 | 15.82 | 16.40 | 18.04 |
|                 | 4H   | 0.60             | 1.17  | 1.78  | 2.33  | 3.98  | 15.28          | 15.85 | 16.46 | 17.01 | 18.66 |
|                 | 6H   | 0.84             | 1.36  | 2.03  | 2.52  | 4.18  | 15.71          | 16.23 | 16.89 | 17.39 | 19.05 |
|                 | 8H   | 0.90             | 1.40  | 2.09  | 2.58  | 4.23  | 15.82          | 16.32 | 17.01 | 17.50 | 19.15 |
|                 | 12H  | 0.91             | 1.38  | 2.11  | 2.55  | 4.23  | 15.89          | 16.36 | 17.08 | 17.53 | 19.20 |
| 4H              | 2H   | 6.82             | 7.39  | 8.01  | 8.55  | 10.20 | 13.06          | 13.63 | 14.25 | 14.79 | 16.44 |
|                 | 3H   | 8.37             | 8.84  | 9.56  | 10.03 | 11.69 | 15.09          | 15.57 | 16.29 | 16.75 | 18.41 |
|                 | 4H   | 8.45             | 8.89  | 9.65  | 10.06 | 11.74 | 15.85          | 16.29 | 17.05 | 17.47 | 19.14 |
|                 | 6H   | 8.45             | 8.83  | 9.65  | 10.02 | 11.69 | 16.39          | 16.76 | 17.59 | 17.96 | 19.62 |
|                 | 8H   | 8.42             | 8.77  | 9.62  | 9.96  | 11.65 | 16.55          | 16.89 | 17.74 | 18.08 | 19.77 |
|                 | 12H  | 8.37             | 8.69  | 9.58  | 9.89  | 11.57 | 16.63          | 16.95 | 17.85 | 18.15 | 19.84 |
| 8H              | 4H   | 9.88             | 10.23 | 11.08 | 11.42 | 13.11 | 15.90          | 16.25 | 17.10 | 17.44 | 19.12 |
|                 | 6H   | 10.12            | 10.40 | 11.33 | 11.64 | 13.32 | 16.52          | 16.81 | 17.74 | 18.04 | 19.72 |
|                 | 8H   | 10.13            | 10.38 | 11.35 | 11.59 | 13.29 | 16.74          | 16.99 | 17.96 | 18.20 | 19.90 |
|                 | 12H  | 10.09            | 10.31 | 11.32 | 11.52 | 13.25 | 16.88          | 17.10 | 18.11 | 18.31 | 20.04 |
| 12H             | 4H   | 10.02            | 10.34 | 11.23 | 11.53 | 13.22 | 15.84          | 16.16 | 17.05 | 17.36 | 19.05 |
|                 | 6H   | 10.37            | 10.62 | 11.60 | 11.83 | 13.53 | 16.50          | 16.75 | 17.72 | 17.96 | 19.66 |
|                 | 8H   | 10.43            | 10.65 | 11.66 | 11.86 | 13.59 | 16.73          | 16.95 | 17.95 | 18.15 | 19.88 |