

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: P937079

Luminaire Tested: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-3500K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937079  
REPORT IS A COMBINATION OF REPORTS P933493 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

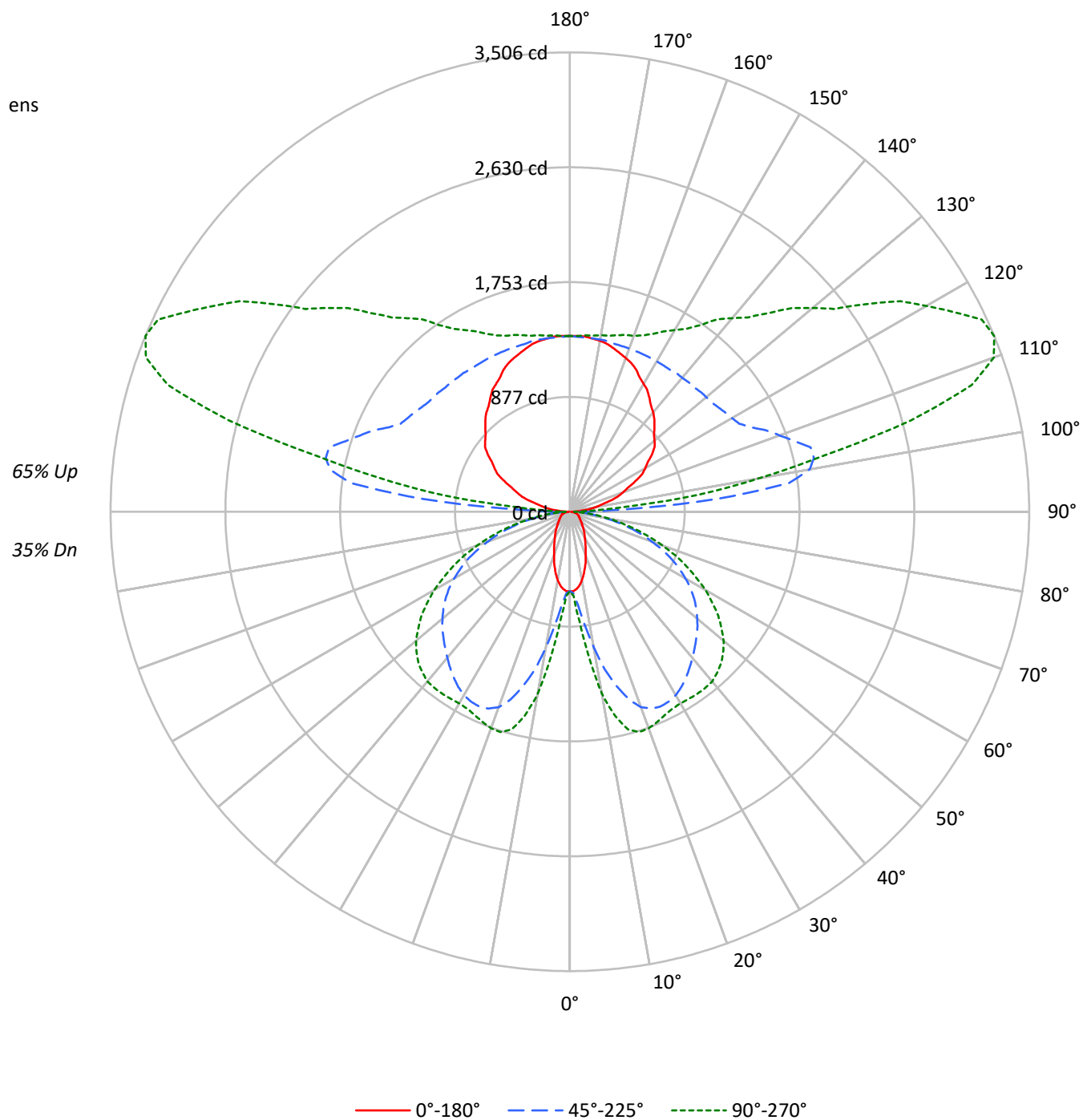
Lumens per Lamp: N/A  
Luminaire Lumens: 13400.3 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 103.2  
Input Voltage (V): NR  
Input Current (Ain): 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: P937079

CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P937079

CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-3500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 |    |    | 35 |
| 1   | 94  | 90  | 86  | 82  | 85 | 81 | 78 | 75 | 65 | 63 | 61 | 50 | 49 | 47 | 37 | 36 | 35 |    |    | 29 |
| 2   | 85  | 78  | 72  | 66  | 77 | 70 | 65 | 61 | 57 | 53 | 50 | 44 | 41 | 39 | 32 | 30 | 29 |    |    | 23 |
| 3   | 77  | 68  | 61  | 55  | 70 | 62 | 55 | 50 | 49 | 45 | 41 | 38 | 35 | 32 | 28 | 26 | 24 |    |    | 19 |
| 4   | 71  | 60  | 52  | 46  | 63 | 54 | 47 | 42 | 44 | 39 | 35 | 34 | 30 | 27 | 25 | 22 | 20 |    |    | 16 |
| 5   | 65  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 39 | 33 | 29 | 30 | 26 | 23 | 22 | 19 | 17 |    |    | 14 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 36 | 31 | 35 | 29 | 25 | 27 | 23 | 20 | 20 | 17 | 15 |    |    | 12 |
| 7   | 55  | 42  | 34  | 29  | 49 | 38 | 31 | 26 | 31 | 26 | 22 | 24 | 20 | 17 | 18 | 15 | 13 |    |    | 10 |
| 8   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 16 | 14 | 12 |    |    | 9  |
| 9   | 47  | 35  | 27  | 22  | 42 | 32 | 25 | 20 | 26 | 21 | 17 | 20 | 16 | 14 | 15 | 12 | 10 |    |    | 8  |
| 10  | 44  | 32  | 24  | 20  | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 12 | 14 | 11 | 9  |    |    | 7  |

**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: 90°

Vertical Angle: 45°

Luminance: 5315 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 78.4    | 0.6       |
| 10°-20°   | 347.6   | 2.6       |
| 20°-30°   | 608.1   | 4.5       |
| 30°-40°   | 782.8   | 5.8       |
| 40°-50°   | 874.3   | 6.5       |
| 50°-60°   | 837.4   | 6.2       |
| 60°-70°   | 663.6   | 5.0       |
| 70°-80°   | 390.2   | 2.9       |
| 80°-90°   | 113.5   | 0.8       |
| 90°-100°  | 654.5   | 4.9       |
| 100°-110° | 1720.7  | 12.8      |
| 110°-120° | 1784.2  | 13.3      |
| 120°-130° | 1431.2  | 10.7      |
| 130°-140° | 1122.9  | 8.4       |
| 140°-150° | 861.9   | 6.4       |
| 150°-160° | 620.7   | 4.6       |
| 160°-170° | 379.8   | 2.8       |
| 170°-180° | 128.3   | 1.0       |
| 0°-30°    | 1034.2  | 7.7       |
| 0°-40°    | 1816.9  | 13.6      |
| 0°-60°    | 3528.6  | 26.3      |
| 0°-90°    | 4696.1  | 35.0      |
| 90°-120°  | 4159.4  | 31.0      |
| 90°-150°  | 7575.4  | 56.5      |
| 90°-180°  | 8704.0  | 65.0      |
| 0°-180°   | 13400.3 | 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°  | 9    | 25    | 68   | 34    | 34   | 9    |
| 95°  | 86   | 339   | 1127 | 581   | 396  | 96   |
| 105° | 310  | 470   | 1902 | 2888  | 2694 | 329  |
| 115° | 551  | 669   | 1524 | 3040  | 3469 | 544  |
| 125° | 766  | 859   | 1386 | 2342  | 2763 | 680  |
| 135° | 913  | 1005  | 1343 | 1891  | 2144 | 706  |
| 145° | 1059 | 1126  | 1326 | 1613  | 1739 | 663  |
| 155° | 1197 | 1230  | 1326 | 1455  | 1498 | 550  |
| 165° | 1291 | 1308  | 1326 | 1378  | 1395 | 364  |
| 175° | 1343 | 1343  | 1335 | 1352  | 1352 | 127  |
| 180° | 1343 | 1343  | 1343 | 1343  | 1343 |      |

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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°    | 9.0   | 16.2  | 23.4  | 25.2  | 39.6   | 58.9   | 68.5   | 60.9   | 45.6   | 34.2   | 34.2   |
| 92.5°  | 36.0  | 97.3  | 158.6 | 173.9 | 244.5  | 338.6  | 385.7  | 338.0  | 242.7  | 171.2  | 164.4  |
| 95°    | 86.5  | 198.6 | 310.9 | 338.9 | 601.7  | 952.1  | 1127.3 | 1006.0 | 763.3  | 581.2  | 560.6  |
| 97.5°  | 149.6 | 248.5 | 347.5 | 372.2 | 810.5  | 1394.8 | 1686.9 | 1610.2 | 1456.8 | 1341.8 | 1302.5 |
| 100°   | 198.3 | 288.0 | 377.7 | 400.1 | 886.4  | 1534.8 | 1859.0 | 1864.6 | 1875.9 | 1884.3 | 1837.5 |
| 102.5° | 239.7 | 323.5 | 407.1 | 428.0 | 921.2  | 1578.9 | 1907.8 | 2005.4 | 2200.9 | 2347.5 | 2307.5 |
| 105°   | 310.0 | 380.9 | 451.7 | 469.5 | 947.1  | 1583.9 | 1902.3 | 2121.4 | 2559.6 | 2888.2 | 2866.7 |
| 107.5° | 382.1 | 448.2 | 514.2 | 530.8 | 951.9  | 1513.5 | 1794.2 | 2099.8 | 2711.0 | 3169.3 | 3174.5 |
| 110°   | 430.7 | 490.4 | 550.1 | 565.0 | 944.7  | 1451.0 | 1704.1 | 2045.8 | 2729.0 | 3241.4 | 3263.8 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 478.5  | 535.4  | 592.3  | 606.5  | 945.1  | 1396.4 | 1622.1 | 1971.7 | 2671.0 | 3195.5 | 3229.9 |
| 115°   | 550.6  | 603.0  | 655.5  | 668.6  | 953.7  | 1333.8 | 1523.8 | 1860.7 | 2534.3 | 3039.6 | 3087.3 |
| 117.5° | 621.8  | 669.5  | 717.1  | 729.0  | 971.4  | 1294.6 | 1456.2 | 1760.2 | 2368.1 | 2824.2 | 2877.2 |
| 120°   | 663.3  | 708.1  | 752.9  | 764.2  | 985.9  | 1281.4 | 1429.2 | 1706.9 | 2262.4 | 2679.1 | 2730.5 |
| 122.5° | 703.8  | 749.0  | 794.3  | 805.6  | 1006.6 | 1274.5 | 1408.4 | 1658.5 | 2158.8 | 2534.0 | 2584.8 |
| 125°   | 766.0  | 807.3  | 848.6  | 858.8  | 1034.5 | 1268.8 | 1386.0 | 1598.5 | 2023.4 | 2342.1 | 2388.9 |
| 127.5° | 816.5  | 858.1  | 899.8  | 910.2  | 1062.5 | 1265.5 | 1367.1 | 1549.5 | 1914.4 | 2188.0 | 2227.4 |
| 130°   | 843.5  | 888.4  | 933.1  | 944.4  | 1082.9 | 1267.5 | 1359.8 | 1522.2 | 1847.0 | 2090.6 | 2127.1 |
| 132.5° | 871.4  | 916.3  | 961.1  | 972.3  | 1099.3 | 1268.8 | 1353.5 | 1498.8 | 1789.6 | 2007.8 | 2040.4 |
| 135°   | 912.9  | 953.7  | 994.6  | 1004.8 | 1117.5 | 1267.6 | 1342.7 | 1464.4 | 1708.0 | 1890.6 | 1918.7 |
| 137.5° | 955.2  | 995.6  | 1036.2 | 1046.2 | 1144.5 | 1275.4 | 1340.9 | 1443.8 | 1649.7 | 1804.1 | 1827.1 |
| 140°   | 990.3  | 1027.5 | 1064.8 | 1074.1 | 1161.0 | 1276.8 | 1334.6 | 1423.6 | 1601.4 | 1734.7 | 1756.2 |
| 142.5° | 1017.4 | 1051.8 | 1086.2 | 1094.9 | 1174.8 | 1281.3 | 1334.6 | 1412.7 | 1568.9 | 1686.1 | 1704.6 |
| 145°   | 1058.8 | 1088.9 | 1118.9 | 1126.5 | 1192.8 | 1281.3 | 1325.6 | 1389.4 | 1517.3 | 1613.1 | 1627.1 |
| 147.5° | 1100.3 | 1129.6 | 1158.8 | 1166.1 | 1219.3 | 1290.1 | 1325.6 | 1375.9 | 1476.4 | 1551.8 | 1563.4 |
| 150°   | 1127.3 | 1153.8 | 1180.2 | 1186.8 | 1233.1 | 1294.8 | 1325.6 | 1368.0 | 1452.9 | 1516.6 | 1526.0 |
| 152.5° | 1155.2 | 1175.3 | 1195.3 | 1200.3 | 1242.1 | 1297.8 | 1325.6 | 1361.8 | 1434.3 | 1488.7 | 1495.7 |
| 155°   | 1196.7 | 1211.5 | 1226.4 | 1230.0 | 1261.9 | 1304.4 | 1325.6 | 1354.5 | 1412.1 | 1455.3 | 1460.1 |
| 157.5° | 1227.3 | 1241.8 | 1256.2 | 1259.8 | 1281.7 | 1311.0 | 1325.6 | 1348.0 | 1392.8 | 1426.5 | 1429.8 |
| 160°   | 1248.1 | 1259.3 | 1270.6 | 1273.4 | 1290.8 | 1314.0 | 1325.6 | 1344.8 | 1383.2 | 1412.1 | 1414.1 |
| 162.5° | 1268.8 | 1277.2 | 1285.6 | 1287.7 | 1300.3 | 1317.2 | 1325.6 | 1341.8 | 1374.2 | 1398.6 | 1400.4 |
| 165°   | 1291.4 | 1298.9 | 1306.5 | 1308.4 | 1314.2 | 1321.8 | 1325.6 | 1337.2 | 1360.4 | 1377.8 | 1379.8 |
| 167.5° | 1312.0 | 1315.6 | 1319.3 | 1320.2 | 1325.0 | 1331.4 | 1334.6 | 1342.2 | 1357.4 | 1368.8 | 1369.6 |
| 170°   | 1325.6 | 1329.2 | 1332.9 | 1333.7 | 1334.0 | 1334.4 | 1334.6 | 1342.2 | 1357.4 | 1368.8 | 1368.8 |
| 172.5° | 1332.8 | 1333.5 | 1334.4 | 1334.6 | 1334.6 | 1334.6 | 1334.6 | 1340.6 | 1352.6 | 1361.6 | 1361.0 |
| 175°   | 1342.7 | 1342.7 | 1342.7 | 1342.7 | 1340.0 | 1336.4 | 1334.6 | 1338.4 | 1346.0 | 1351.8 | 1351.8 |
| 177.5° | 1342.7 | 1342.7 | 1342.7 | 1342.7 | 1340.6 | 1337.8 | 1336.4 | 1339.4 | 1345.5 | 1349.9 | 1349.1 |
| 180°   | 1342.7 | 1342.7 | 1342.7 | 1342.7 | 1342.7 | 1342.7 | 1342.7 | 1342.7 | 1342.7 | 1342.7 | 1342.7 |

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CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-3500K

**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°    | 34.2   | 34.2   |
| 92.5°  | 137.2  | 110.0  |
| 95°    | 478.1  | 395.6  |
| 97.5°  | 1145.6 | 988.6  |
| 100°   | 1650.5 | 1463.5 |
| 102.5° | 2147.2 | 1987.0 |
| 105°   | 2780.5 | 2694.4 |
| 107.5° | 3195.4 | 3216.2 |
| 110°   | 3353.5 | 3443.2 |

TEST NUMBER: P937079

CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 3367.7 | 3505.5 |
| 115°   | 3278.3 | 3469.4 |
| 117.5° | 3089.0 | 3300.9 |
| 120°   | 2936.5 | 3142.3 |
| 122.5° | 2787.8 | 2990.9 |
| 125°   | 2575.9 | 2762.9 |
| 127.5° | 2385.3 | 2543.0 |
| 130°   | 2272.9 | 2418.7 |
| 132.5° | 2170.9 | 2301.6 |
| 135°   | 2031.3 | 2143.8 |
| 137.5° | 1919.2 | 2011.4 |
| 140°   | 1842.4 | 1928.4 |
| 142.5° | 1778.7 | 1852.7 |
| 145°   | 1683.2 | 1739.2 |
| 147.5° | 1609.8 | 1656.3 |
| 150°   | 1563.7 | 1601.4 |
| 152.5° | 1524.2 | 1552.6 |
| 155°   | 1478.9 | 1497.7 |
| 157.5° | 1443.0 | 1456.2 |
| 160°   | 1421.6 | 1429.2 |
| 162.5° | 1407.6 | 1414.8 |
| 165°   | 1387.3 | 1395.0 |
| 167.5° | 1372.9 | 1376.1 |
| 170°   | 1368.8 | 1368.8 |
| 172.5° | 1358.2 | 1355.3 |
| 175°   | 1351.8 | 1351.8 |
| 177.5° | 1345.9 | 1342.7 |
| 180°   | 1342.7 | 1342.7 |

TEST NUMBER: P937079

CATALOG NUMBER: SQ4-FB-075U-050D-B2750-1D-UNV-W2A-W-12-3500K

**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 | 1.65             | 2.41  | 2.71  | 3.49  | 4.95  | 14.84          | 15.60 | 15.91 | 16.68 | 18.15 |
|                 | 3H   | 2.34             | 3.03  | 3.42  | 4.11  | 5.60  | 16.67          | 17.36 | 17.75 | 18.45 | 19.93 |
|                 | 4H   | 2.64             | 3.29  | 3.73  | 4.37  | 5.87  | 17.32          | 17.97 | 18.41 | 19.06 | 20.55 |
|                 | 6H   | 2.88             | 3.48  | 3.98  | 4.57  | 6.08  | 17.75          | 18.35 | 18.85 | 19.44 | 20.94 |
|                 | 8H   | 2.95             | 3.52  | 4.05  | 4.62  | 6.12  | 17.87          | 18.44 | 18.97 | 19.55 | 21.04 |
|                 | 12H  | 2.96             | 3.51  | 4.07  | 4.60  | 6.13  | 17.94          | 18.48 | 19.04 | 19.58 | 21.10 |
| 4H              | 2H   | 8.86             | 9.51  | 9.95  | 10.59 | 12.09 | 15.10          | 15.75 | 16.20 | 16.84 | 18.33 |
|                 | 3H   | 10.41            | 10.96 | 11.52 | 12.07 | 13.58 | 17.14          | 17.69 | 18.24 | 18.80 | 20.30 |
|                 | 4H   | 10.50            | 11.01 | 11.61 | 12.11 | 13.63 | 17.91          | 18.41 | 19.02 | 19.51 | 21.03 |
|                 | 6H   | 10.51            | 10.94 | 11.63 | 12.07 | 13.58 | 18.44          | 18.88 | 19.56 | 20.00 | 21.52 |
|                 | 8H   | 10.48            | 10.89 | 11.60 | 12.00 | 13.54 | 18.61          | 19.01 | 19.72 | 20.13 | 21.66 |
|                 | 12H  | 10.44            | 10.80 | 11.57 | 11.93 | 13.47 | 18.70          | 19.06 | 19.83 | 20.19 | 21.73 |
| 8H              | 4H   | 11.94            | 12.35 | 13.06 | 13.46 | 15.00 | 17.96          | 18.36 | 19.07 | 19.48 | 21.01 |
|                 | 6H   | 12.18            | 12.52 | 13.32 | 13.67 | 15.20 | 18.59          | 18.92 | 19.73 | 20.08 | 21.61 |
|                 | 8H   | 12.20            | 12.49 | 13.34 | 13.63 | 15.18 | 18.81          | 19.10 | 19.95 | 20.24 | 21.79 |
|                 | 12H  | 12.16            | 12.42 | 13.31 | 13.56 | 15.14 | 18.95          | 19.21 | 20.10 | 20.34 | 21.93 |
| 12H             | 4H   | 12.08            | 12.45 | 13.22 | 13.58 | 15.12 | 17.91          | 18.27 | 19.04 | 19.40 | 20.94 |
|                 | 6H   | 12.44            | 12.73 | 13.59 | 13.87 | 15.42 | 18.57          | 18.86 | 19.71 | 20.00 | 21.55 |
|                 | 8H   | 12.51            | 12.76 | 13.65 | 13.90 | 15.48 | 18.80          | 19.05 | 19.95 | 20.19 | 21.78 |