

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: P937417

Luminaire Tested: SQ4-FB-100U-050D-840-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

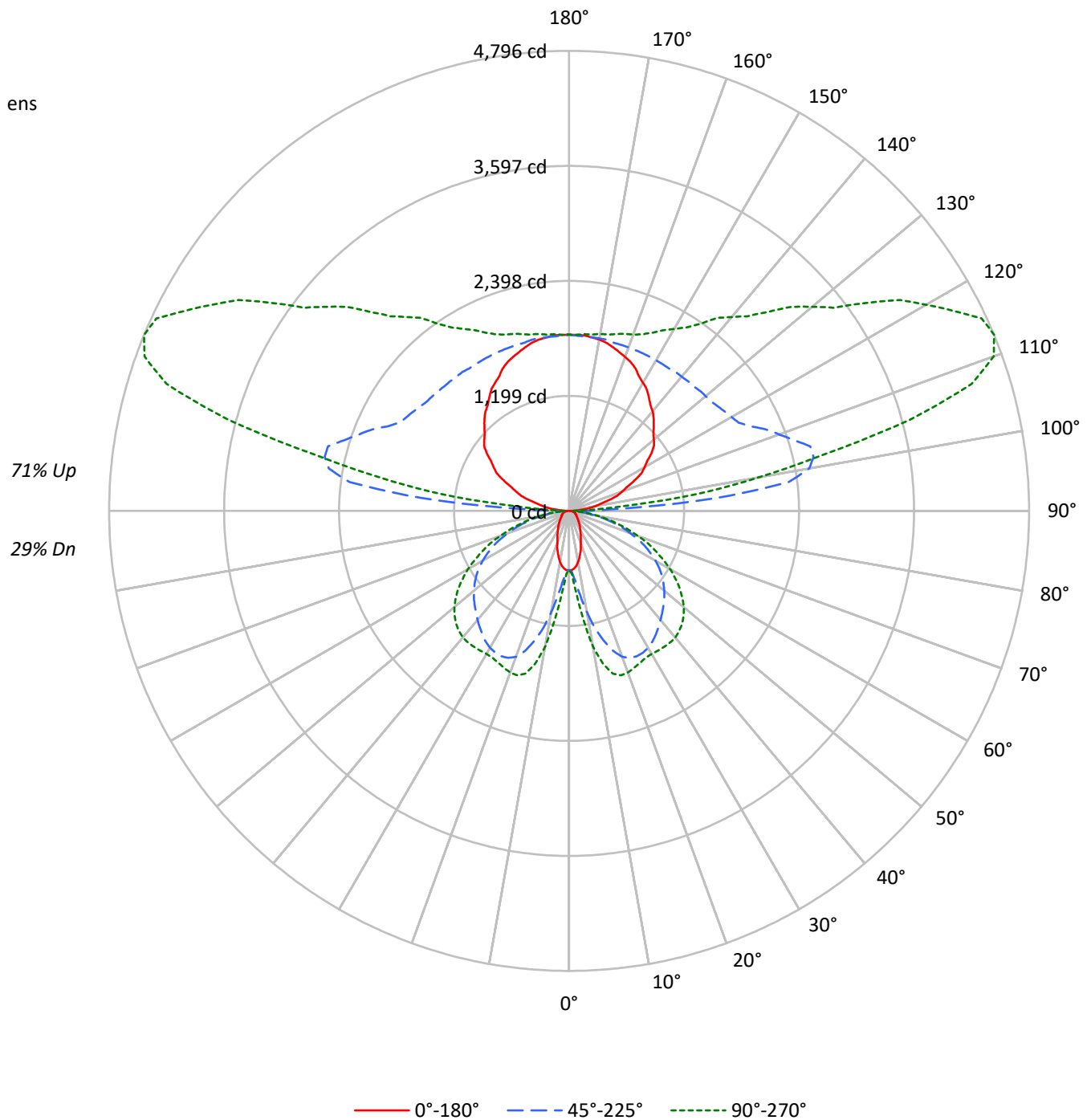
Test Method: LM-79-2019  
Report Number: P937417  
REPORT IS A COMBINATION OF REPORTS P933557 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-100U-050D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16698.2 lumens  
Efficiency: N/A  
Efficacy: 135.1 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): 123.6  
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: P937417  
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### Luminous Intensity Polar Plot





TEST NUMBER: P937417

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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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 37 | 37 | 37 | 29 |
| 1   | 93  | 88  | 84  | 81  | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 46 | 45 | 44 | 32 | 31 | 30 | 23 |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 59 | 54 | 50 | 47 | 40 | 38 | 36 | 28 | 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 | 18 | 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 | 11 | 9  | 7  |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 18 | 14 | 17 | 14 | 11 | 12 | 10 | 8  | 6  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1912 | 1912 | 1912 |
| 5°  | 1869 | 2211 | 2570 |
| 10° | 1696 | 3223 | 4261 |
| 15° | 1442 | 4213 | 5146 |
| 20° | 1174 | 4883 | 5244 |
| 25° | 980  | 5111 | 5138 |
| 30° | 827  | 5145 | 5128 |
| 35° | 731  | 5060 | 5261 |
| 40° | 638  | 4951 | 5398 |
| 45° | 578  | 4871 | 5419 |
| 50° | 530  | 4799 | 5329 |
| 55° | 508  | 4694 | 5093 |
| 60° | 521  | 4490 | 4720 |
| 65° | 544  | 4179 | 4207 |
| 70° | 580  | 3647 | 3554 |
| 75° | 644  | 2976 | 2774 |
| 80° | 711  | 2066 | 1869 |
| 85° | 645  | 1098 | 957  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 5419 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 80.0    | 0.5       |
| 10°-20°   | 354.5   | 2.1       |
| 20°-30°   | 620.0   | 3.7       |
| 30°-40°   | 798.1   | 4.8       |
| 40°-50°   | 891.5   | 5.3       |
| 50°-60°   | 853.8   | 5.1       |
| 60°-70°   | 676.7   | 4.1       |
| 70°-80°   | 397.9   | 2.4       |
| 80°-90°   | 117.6   | 0.7       |
| 90°-100°  | 895.4   | 5.4       |
| 100°-110° | 2354.1  | 14.1      |
| 110°-120° | 2441.0  | 14.6      |
| 120°-130° | 1958.0  | 11.7      |
| 130°-140° | 1536.3  | 9.2       |
| 140°-150° | 1179.2  | 7.1       |
| 150°-160° | 849.2   | 5.1       |
| 160°-170° | 519.6   | 3.1       |
| 170°-180° | 175.5   | 1.1       |
| 0°-30°    | 1054.4  | 6.3       |
| 0°-40°    | 1852.5  | 11.1      |
| 0°-60°    | 3597.8  | 21.5      |
| 0°-90°    | 4789.9  | 28.7      |
| 90°-120°  | 5690.5  | 34.1      |
| 90°-150°  | 10364.0 | 62.1      |
| 90°-180°  | 11908.0 | 71.3      |
| 0°-180°   | 16698.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 618  | 618   | 618  | 618   | 618  |      |
| 5°   | 602  | 646   | 728  | 823   | 853  | 56   |
| 15°  | 451  | 833   | 1404 | 1702  | 1755 | 126  |
| 25°  | 288  | 944   | 1672 | 1746  | 1748 | 133  |
| 35°  | 195  | 902   | 1574 | 1664  | 1730 | 122  |
| 45°  | 133  | 720   | 1392 | 1594  | 1666 | 103  |
| 55°  | 95   | 457   | 1181 | 1372  | 1410 | 87   |
| 65°  | 76   | 243   | 877  | 986   | 1000 | 75   |
| 75°  | 56   | 149   | 481  | 529   | 531  | 58   |
| 85°  | 20   | 46    | 119  | 131   | 133  | 21   |
| 90°  | 12   | 34    | 94   | 47    | 47   | 12   |
| 95°  | 118  | 464   | 1542 | 795   | 541  | 131  |
| 105° | 424  | 642   | 2603 | 3951  | 3686 | 450  |
| 115° | 753  | 915   | 2085 | 4158  | 4746 | 744  |
| 125° | 1048 | 1175  | 1896 | 3204  | 3780 | 930  |
| 135° | 1249 | 1375  | 1837 | 2586  | 2933 | 966  |
| 145° | 1449 | 1541  | 1814 | 2207  | 2379 | 908  |
| 155° | 1637 | 1683  | 1814 | 1991  | 2049 | 752  |
| 165° | 1767 | 1790  | 1814 | 1885  | 1908 | 499  |
| 175° | 1837 | 1837  | 1826 | 1849  | 1849 | 174  |
| 180° | 1837 | 1837  | 1837 | 1837  | 1837 |      |



TEST NUMBER: P937417

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 618.3 | 618.3 | 618.3 | 618.3 | 618.3  | 618.3  | 618.3  | 618.3  | 618.3  | 618.3  | 618.3  |
| 2.5°   | 618.3 | 618.3 | 622.2 | 624.2 | 628.2  | 630.1  | 634.2  | 638.1  | 650.1  | 652.1  | 656.0  |
| 5°     | 602.4 | 610.3 | 636.2 | 646.1 | 673.9  | 711.7  | 727.6  | 753.4  | 807.1  | 823.0  | 833.0  |
| 7.5°   | 578.5 | 596.4 | 660.0 | 675.9 | 745.5  | 844.9  | 886.6  | 942.4  | 1027.8 | 1069.5 | 1103.3 |
| 10°    | 540.7 | 578.5 | 691.8 | 729.6 | 842.9  | 994.0  | 1071.5 | 1149.0 | 1278.3 | 1336.0 | 1357.8 |
| 12.5°  | 498.9 | 560.6 | 725.6 | 777.3 | 940.3  | 1161.0 | 1254.5 | 1339.9 | 1487.0 | 1564.6 | 1576.5 |
| 15°    | 451.3 | 534.8 | 757.4 | 833.0 | 1043.7 | 1300.1 | 1403.6 | 1508.9 | 1646.1 | 1701.7 | 1715.7 |
| 17.5°  | 409.5 | 514.8 | 787.2 | 866.8 | 1123.3 | 1425.4 | 1530.7 | 1618.2 | 1729.6 | 1767.3 | 1777.3 |
| 20°    | 357.9 | 483.1 | 807.1 | 910.5 | 1206.7 | 1516.9 | 1618.2 | 1685.8 | 1761.4 | 1785.2 | 1789.2 |
| 22.5°  | 320.1 | 449.2 | 819.1 | 926.4 | 1262.4 | 1572.5 | 1658.0 | 1711.7 | 1763.4 | 1771.3 | 1773.3 |
| 25°    | 288.3 | 411.5 | 817.1 | 944.3 | 1310.1 | 1606.3 | 1671.9 | 1711.7 | 1741.4 | 1745.5 | 1745.5 |
| 27.5°  | 258.5 | 369.8 | 809.1 | 948.3 | 1345.9 | 1614.3 | 1666.0 | 1693.7 | 1707.7 | 1715.7 | 1715.7 |
| 30°    | 232.6 | 330.0 | 789.2 | 940.3 | 1361.8 | 1606.3 | 1648.1 | 1662.0 | 1675.8 | 1687.8 | 1693.7 |
| 32.5°  | 212.7 | 292.3 | 759.4 | 924.4 | 1363.7 | 1586.4 | 1616.3 | 1624.2 | 1644.0 | 1671.9 | 1681.9 |
| 35°    | 194.8 | 254.5 | 725.6 | 902.5 | 1351.9 | 1554.6 | 1574.5 | 1582.5 | 1622.2 | 1664.0 | 1677.8 |
| 37.5°  | 177.0 | 226.6 | 681.9 | 864.8 | 1333.9 | 1516.9 | 1530.7 | 1544.6 | 1606.3 | 1656.0 | 1671.9 |
| 40°    | 159.1 | 202.7 | 630.1 | 823.0 | 1306.1 | 1471.1 | 1483.1 | 1504.9 | 1586.4 | 1644.0 | 1659.9 |
| 42.5°  | 145.1 | 182.9 | 574.5 | 779.3 | 1270.4 | 1419.5 | 1437.3 | 1469.2 | 1562.5 | 1624.2 | 1642.1 |
| 45°    | 133.2 | 163.0 | 514.8 | 719.7 | 1224.6 | 1365.7 | 1391.6 | 1435.4 | 1534.8 | 1594.3 | 1610.2 |
| 47.5°  | 121.2 | 149.1 | 453.3 | 658.0 | 1174.9 | 1312.1 | 1345.9 | 1395.6 | 1496.9 | 1554.6 | 1568.5 |
| 50°    | 111.3 | 135.2 | 391.6 | 592.4 | 1121.2 | 1254.5 | 1294.2 | 1345.9 | 1449.3 | 1502.9 | 1520.8 |
| 52.5°  | 103.3 | 123.3 | 333.9 | 526.8 | 1059.6 | 1194.8 | 1240.5 | 1294.2 | 1391.6 | 1443.3 | 1455.2 |
| 55°    | 95.4  | 113.3 | 284.2 | 457.2 | 996.0  | 1131.2 | 1180.9 | 1232.5 | 1328.0 | 1371.7 | 1379.6 |
| 57.5°  | 91.5  | 105.3 | 242.6 | 391.6 | 928.4  | 1059.6 | 1115.3 | 1163.0 | 1252.4 | 1286.3 | 1294.2 |
| 60°    | 85.5  | 99.4  | 210.7 | 336.0 | 854.8  | 992.1  | 1039.8 | 1087.4 | 1163.0 | 1190.8 | 1196.8 |
| 62.5°  | 79.5  | 95.4  | 186.8 | 282.3 | 779.3  | 912.5  | 960.2  | 1003.9 | 1067.5 | 1087.4 | 1095.4 |
| 65°    | 75.6  | 91.5  | 168.9 | 242.6 | 701.8  | 829.0  | 876.8  | 914.5  | 966.2  | 986.0  | 990.0  |
| 67.5°  | 71.5  | 87.4  | 155.0 | 208.8 | 624.2  | 745.5  | 781.3  | 817.1  | 856.8  | 876.8  | 878.7  |
| 70°    | 65.6  | 83.5  | 143.2 | 184.9 | 544.7  | 650.1  | 679.9  | 717.7  | 749.5  | 759.4  | 765.4  |
| 72.5°  | 61.7  | 77.6  | 135.2 | 167.0 | 463.2  | 558.6  | 586.5  | 608.3  | 636.2  | 646.1  | 646.1  |
| 75°    | 55.6  | 69.6  | 127.3 | 149.1 | 379.7  | 457.2  | 481.1  | 503.0  | 524.8  | 528.8  | 522.8  |
| 77.5°  | 49.7  | 61.7  | 109.4 | 125.3 | 296.2  | 361.8  | 381.7  | 393.6  | 411.5  | 415.5  | 417.4  |
| 80°    | 41.8  | 53.6  | 85.5  | 97.4  | 214.7  | 266.4  | 280.3  | 290.3  | 306.2  | 306.2  | 310.1  |
| 82.5°  | 31.8  | 41.8  | 61.7  | 69.6  | 145.1  | 182.9  | 194.8  | 200.8  | 210.7  | 210.7  | 210.7  |
| 85°    | 19.9  | 25.9  | 39.7  | 45.7  | 87.4   | 111.3  | 119.3  | 121.2  | 129.2  | 131.2  | 131.2  |
| 87.5°  | 10.0  | 13.9  | 25.9  | 27.9  | 45.7   | 57.7   | 57.7   | 61.7   | 61.7   | 59.7   | 57.7   |
| 90°    | 12.4  | 22.2  | 32.0  | 34.5  | 54.2   | 80.5   | 93.7   | 83.3   | 62.4   | 46.8   | 46.8   |
| 92.5°  | 49.3  | 133.1 | 217.0 | 237.9 | 334.5  | 463.3  | 527.7  | 462.5  | 332.1  | 234.3  | 225.0  |
| 95°    | 118.4 | 271.8 | 425.2 | 463.6 | 823.1  | 1302.6 | 1542.3 | 1376.3 | 1044.2 | 795.1  | 766.9  |
| 97.5°  | 204.6 | 340.0 | 475.3 | 509.2 | 1108.7 | 1908.1 | 2307.9 | 2202.9 | 1993.1 | 1835.7 | 1782.1 |
| 100°   | 271.2 | 393.9 | 516.6 | 547.4 | 1212.7 | 2099.8 | 2543.4 | 2551.1 | 2566.4 | 2577.9 | 2514.0 |
| 102.5° | 327.9 | 442.4 | 556.9 | 585.6 | 1260.4 | 2160.2 | 2610.0 | 2743.7 | 3011.0 | 3211.6 | 3156.8 |
| 105°   | 424.1 | 521.1 | 618.1 | 642.3 | 1295.8 | 2167.0 | 2602.6 | 2902.3 | 3501.8 | 3951.3 | 3921.9 |
| 107.5° | 522.8 | 613.2 | 703.6 | 726.2 | 1302.3 | 2070.5 | 2454.6 | 2872.7 | 3708.9 | 4335.9 | 4343.1 |
| 110°   | 589.3 | 671.0 | 752.6 | 773.0 | 1292.4 | 1985.0 | 2331.3 | 2798.7 | 3733.5 | 4434.5 | 4465.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 654.6  | 732.5  | 810.3  | 829.7  | 1292.9 | 1910.4 | 2219.1 | 2697.5 | 3654.2 | 4371.7 | 4418.8 |
| 115°   | 753.3  | 825.1  | 896.8  | 914.8  | 1304.8 | 1824.7 | 2084.8 | 2545.6 | 3467.2 | 4158.4 | 4223.7 |
| 117.5° | 850.7  | 915.9  | 981.1  | 997.4  | 1329.1 | 1771.2 | 1992.3 | 2408.2 | 3239.9 | 3863.8 | 3936.2 |
| 120°   | 907.4  | 968.7  | 1030.2 | 1045.5 | 1348.8 | 1753.2 | 1955.4 | 2335.3 | 3095.3 | 3665.3 | 3735.7 |
| 122.5° | 962.9  | 1024.9 | 1086.7 | 1102.2 | 1377.2 | 1743.7 | 1927.0 | 2269.1 | 2953.5 | 3466.8 | 3536.2 |
| 125°   | 1048.0 | 1104.4 | 1160.8 | 1174.9 | 1415.3 | 1735.9 | 1896.2 | 2186.8 | 2768.2 | 3204.2 | 3268.1 |
| 127.5° | 1116.9 | 1173.9 | 1230.9 | 1245.2 | 1453.5 | 1731.4 | 1870.3 | 2119.9 | 2619.0 | 2993.3 | 3047.3 |
| 130°   | 1154.0 | 1215.3 | 1276.7 | 1292.0 | 1481.5 | 1734.1 | 1860.4 | 2082.6 | 2527.0 | 2860.3 | 2910.2 |
| 132.5° | 1192.2 | 1253.6 | 1314.9 | 1330.2 | 1504.0 | 1735.8 | 1851.7 | 2050.6 | 2448.5 | 2746.8 | 2791.5 |
| 135°   | 1248.9 | 1304.8 | 1360.7 | 1374.6 | 1528.7 | 1734.2 | 1837.0 | 2003.6 | 2336.6 | 2586.5 | 2625.0 |
| 137.5° | 1306.8 | 1362.2 | 1417.5 | 1431.3 | 1565.7 | 1744.9 | 1834.5 | 1975.3 | 2257.0 | 2468.2 | 2499.7 |
| 140°   | 1354.9 | 1405.9 | 1456.8 | 1469.6 | 1588.3 | 1746.7 | 1825.8 | 1947.4 | 2190.8 | 2373.3 | 2402.7 |
| 142.5° | 1391.9 | 1439.0 | 1486.1 | 1497.9 | 1607.2 | 1752.9 | 1825.8 | 1932.7 | 2146.4 | 2306.7 | 2332.0 |
| 145°   | 1448.6 | 1489.7 | 1530.8 | 1541.1 | 1631.9 | 1753.0 | 1813.6 | 1900.9 | 2075.7 | 2206.8 | 2226.0 |
| 147.5° | 1505.3 | 1545.3 | 1585.3 | 1595.3 | 1668.0 | 1765.1 | 1813.6 | 1882.3 | 2019.9 | 2123.0 | 2138.9 |
| 150°   | 1542.3 | 1578.4 | 1614.6 | 1623.7 | 1687.0 | 1771.4 | 1813.6 | 1871.7 | 1987.8 | 2074.9 | 2087.7 |
| 152.5° | 1580.5 | 1607.9 | 1635.3 | 1642.2 | 1699.3 | 1775.4 | 1813.6 | 1863.2 | 1962.3 | 2036.7 | 2046.3 |
| 155°   | 1637.2 | 1657.5 | 1677.8 | 1682.9 | 1726.4 | 1784.5 | 1813.6 | 1853.0 | 1931.8 | 1991.0 | 1997.4 |
| 157.5° | 1679.1 | 1698.9 | 1718.6 | 1723.6 | 1753.6 | 1793.6 | 1813.6 | 1844.2 | 1905.6 | 1951.6 | 1956.1 |
| 160°   | 1707.5 | 1722.9 | 1738.2 | 1742.0 | 1765.9 | 1797.7 | 1813.6 | 1839.9 | 1892.4 | 1931.8 | 1934.4 |
| 162.5° | 1735.8 | 1747.3 | 1758.8 | 1761.7 | 1779.0 | 1802.0 | 1813.6 | 1835.7 | 1880.1 | 1913.4 | 1915.8 |
| 165°   | 1766.6 | 1777.0 | 1787.5 | 1790.1 | 1797.9 | 1808.3 | 1813.6 | 1829.5 | 1861.2 | 1885.0 | 1887.6 |
| 167.5° | 1795.0 | 1799.9 | 1804.9 | 1806.2 | 1812.7 | 1821.5 | 1825.8 | 1836.3 | 1857.1 | 1872.8 | 1873.8 |
| 170°   | 1813.6 | 1818.5 | 1823.5 | 1824.6 | 1825.0 | 1825.5 | 1825.8 | 1836.3 | 1857.1 | 1872.8 | 1872.8 |
| 172.5° | 1823.4 | 1824.4 | 1825.5 | 1825.8 | 1825.8 | 1825.8 | 1825.8 | 1834.0 | 1850.5 | 1862.9 | 1861.9 |
| 175°   | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1833.2 | 1828.3 | 1825.8 | 1831.1 | 1841.4 | 1849.2 | 1849.2 |
| 177.5° | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1834.1 | 1830.3 | 1828.3 | 1832.4 | 1840.6 | 1846.8 | 1845.7 |
| 180°   | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 | 1837.0 |



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CATALOG NUMBER: SQ4-FB-100U-050D-840-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 618.3  | 618.3  |
| 2.5°   | 660.0  | 656.0  |
| 5°     | 848.9  | 852.8  |
| 7.5°   | 1143.1 | 1141.1 |
| 10°    | 1421.4 | 1439.3 |
| 12.5°  | 1624.2 | 1628.1 |
| 15°    | 1747.5 | 1755.4 |
| 17.5°  | 1795.2 | 1797.2 |
| 20°    | 1797.2 | 1793.2 |
| 22.5°  | 1775.2 | 1771.3 |
| 25°    | 1749.5 | 1747.5 |
| 27.5°  | 1725.5 | 1727.6 |
| 30°    | 1715.7 | 1721.6 |
| 32.5°  | 1715.7 | 1725.5 |
| 35°    | 1719.6 | 1729.6 |
| 37.5°  | 1717.6 | 1729.6 |
| 40°    | 1709.6 | 1723.6 |
| 42.5°  | 1687.8 | 1697.8 |
| 45°    | 1654.0 | 1666.0 |
| 47.5°  | 1610.2 | 1618.2 |
| 50°    | 1554.6 | 1562.5 |
| 52.5°  | 1485.1 | 1487.0 |
| 55°    | 1401.6 | 1409.5 |
| 57.5°  | 1312.1 | 1314.0 |
| 60°    | 1212.7 | 1218.6 |
| 62.5°  | 1107.4 | 1107.4 |
| 65°    | 996.0  | 1000.0 |
| 67.5°  | 880.7  | 890.6  |
| 70°    | 763.4  | 765.4  |
| 72.5°  | 648.1  | 648.1  |
| 75°    | 528.8  | 530.8  |
| 77.5°  | 415.5  | 415.5  |
| 80°    | 308.2  | 310.1  |
| 82.5°  | 212.7  | 216.7  |
| 85°    | 133.2  | 133.2  |
| 87.5°  | 61.7   | 55.6   |
| 90°    | 46.8   | 46.8   |
| 92.5°  | 187.6  | 150.4  |
| 95°    | 654.1  | 541.2  |
| 97.5°  | 1567.3 | 1352.5 |
| 100°   | 2258.1 | 2002.2 |
| 102.5° | 2937.6 | 2718.5 |
| 105°   | 3804.0 | 3686.2 |
| 107.5° | 4371.6 | 4400.1 |
| 110°   | 4588.0 | 4710.8 |





TEST NUMBER: P937417

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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 4607.3 | 4795.9 |
| 115°   | 4485.1 | 4746.5 |
| 117.5° | 4226.1 | 4516.0 |
| 120°   | 4017.3 | 4299.0 |
| 122.5° | 3814.0 | 4091.8 |
| 125°   | 3524.0 | 3779.9 |
| 127.5° | 3263.3 | 3479.1 |
| 130°   | 3109.5 | 3309.0 |
| 132.5° | 2970.1 | 3148.8 |
| 135°   | 2778.9 | 2933.0 |
| 137.5° | 2625.7 | 2751.8 |
| 140°   | 2520.6 | 2638.4 |
| 142.5° | 2433.3 | 2534.7 |
| 145°   | 2302.7 | 2379.4 |
| 147.5° | 2202.4 | 2266.0 |
| 150°   | 2139.3 | 2190.8 |
| 152.5° | 2085.3 | 2124.2 |
| 155°   | 2023.2 | 2049.0 |
| 157.5° | 1974.2 | 1992.3 |
| 160°   | 1944.9 | 1955.4 |
| 162.5° | 1925.7 | 1935.6 |
| 165°   | 1898.0 | 1908.4 |
| 167.5° | 1878.2 | 1882.5 |
| 170°   | 1872.8 | 1872.8 |
| 172.5° | 1858.0 | 1854.2 |
| 175°   | 1849.2 | 1849.2 |
| 177.5° | 1841.3 | 1837.0 |
| 180°   | 1837.0 | 1837.0 |



TEST NUMBER: P937417  
 CATALOG NUMBER: SQ4-FB-100U-050D-840-1D-UNV-STD-W-12

**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 | 0.89             | 1.61  | 2.01  | 2.72  | 4.27  | 14.08          | 14.80 | 15.20 | 15.91 | 17.46 |
|                 | 3H   | 1.58             | 2.23  | 2.71  | 3.35  | 4.91  | 15.92          | 16.56 | 17.04 | 17.68 | 19.24 |
|                 | 4H   | 1.88             | 2.49  | 3.01  | 3.61  | 5.17  | 16.56          | 17.17 | 17.69 | 18.29 | 19.86 |
|                 | 6H   | 2.12             | 2.68  | 3.26  | 3.81  | 5.38  | 16.98          | 17.55 | 18.13 | 18.67 | 20.25 |
|                 | 8H   | 2.18             | 2.72  | 3.33  | 3.86  | 5.43  | 17.10          | 17.64 | 18.25 | 18.78 | 20.35 |
|                 | 12H  | 2.19             | 2.70  | 3.34  | 3.84  | 5.43  | 17.17          | 17.68 | 18.32 | 18.81 | 20.41 |
| 4H              | 2H   | 8.10             | 8.71  | 9.24  | 9.83  | 11.39 | 14.34          | 14.95 | 15.48 | 16.07 | 17.64 |
|                 | 3H   | 9.65             | 10.16 | 10.80 | 11.31 | 12.89 | 16.37          | 16.89 | 17.52 | 18.03 | 19.61 |
|                 | 4H   | 9.74             | 10.21 | 10.89 | 11.34 | 12.94 | 17.14          | 17.61 | 18.29 | 18.75 | 20.34 |
|                 | 6H   | 9.74             | 10.14 | 10.89 | 11.30 | 12.89 | 17.67          | 18.08 | 18.83 | 19.24 | 20.82 |
|                 | 8H   | 9.71             | 10.09 | 10.87 | 11.24 | 12.85 | 17.83          | 18.21 | 18.99 | 19.36 | 20.97 |
|                 | 12H  | 9.66             | 10.00 | 10.83 | 11.17 | 12.78 | 17.92          | 18.27 | 19.10 | 19.43 | 21.04 |
| 8H              | 4H   | 11.17            | 11.55 | 12.33 | 12.70 | 14.31 | 17.19          | 17.56 | 18.34 | 18.71 | 20.32 |
|                 | 6H   | 11.41            | 11.72 | 12.58 | 12.91 | 14.51 | 17.81          | 18.12 | 18.99 | 19.32 | 20.92 |
|                 | 8H   | 11.42            | 11.70 | 12.61 | 12.87 | 14.49 | 18.03          | 18.31 | 19.21 | 19.48 | 21.10 |
|                 | 12H  | 11.38            | 11.62 | 12.57 | 12.79 | 14.45 | 18.17          | 18.41 | 19.36 | 19.58 | 21.24 |
| 12H             | 4H   | 11.31            | 11.65 | 12.48 | 12.81 | 14.42 | 17.13          | 17.47 | 18.30 | 18.64 | 20.25 |
|                 | 6H   | 11.67            | 11.94 | 12.85 | 13.11 | 14.73 | 17.79          | 18.07 | 18.98 | 19.24 | 20.86 |
|                 | 8H   | 11.73            | 11.97 | 12.91 | 13.14 | 14.79 | 18.02          | 18.26 | 19.21 | 19.43 | 21.08 |