

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: P936617

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

Issue Date: 12/17/2024

**Test Information**

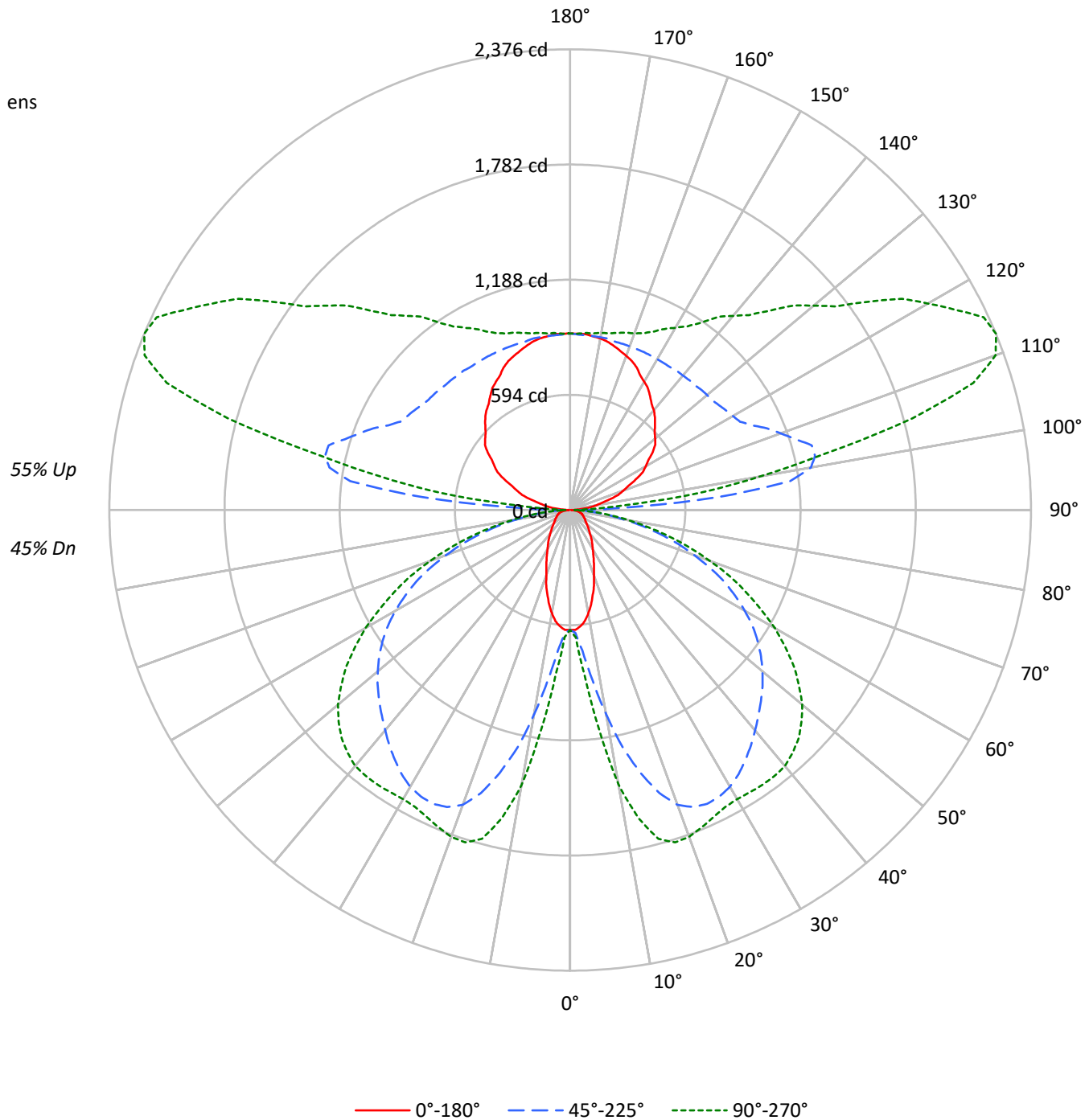
Test Method: LM-79-2019  
Report Number: P936617  
REPORT IS A COMBINATION OF REPORTS P933461 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-050U-050D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10687.2 lumens  
Efficiency: N/A  
Efficacy: 125.4 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: General Diffuse  
  
Input Watts (W): 85.2  
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: P936617  
CATALOG NUMBER: SQ4-FB-050U-050D-840-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P936617

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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   | 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 | 81 | 77 | 70 | 67 | 65 | 57 | 55 | 53 | 45 | 43 | 42 | 37 | 37 | 37 | 37 |
| 2   | 87  | 79  | 73  | 68  | 79 | 73 | 67 | 63 | 60 | 56 | 53 | 49 | 46 | 44 | 39 | 37 | 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  | 66 | 56 | 49 | 43 | 47 | 41 | 37 | 38 | 34 | 31 | 30 | 27 | 25 | 21 | 21 | 21 | 21 |
| 5   | 66  | 54  | 46  | 39  | 60 | 50 | 42 | 37 | 41 | 36 | 31 | 34 | 29 | 26 | 26 | 23 | 21 | 18 | 18 | 18 | 18 |
| 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 | 25 | 21 | 25 | 20 | 17 | 20 | 16 | 14 | 12 | 12 | 12 | 12 |
| 9   | 48  | 35  | 28  | 23  | 44 | 33 | 26 | 21 | 27 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 12 | 10 | 10 | 10 | 10 |
| 10  | 45  | 32  | 25  | 20  | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 17 | 14 | 17 | 13 | 11 | 9  | 9  | 9  | 9  |

**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    | 0.7       |
| 10°-20°   | 354.5   | 3.3       |
| 20°-30°   | 620.0   | 5.8       |
| 30°-40°   | 798.1   | 7.5       |
| 40°-50°   | 891.5   | 8.3       |
| 50°-60°   | 853.8   | 8.0       |
| 60°-70°   | 676.7   | 6.3       |
| 70°-80°   | 397.9   | 3.7       |
| 80°-90°   | 114.0   | 1.1       |
| 90°-100°  | 443.7   | 4.2       |
| 100°-110° | 1166.5  | 10.9      |
| 110°-120° | 1209.5  | 11.3      |
| 120°-130° | 970.2   | 9.1       |
| 130°-140° | 761.3   | 7.1       |
| 140°-150° | 584.3   | 5.5       |
| 150°-160° | 420.8   | 3.9       |
| 160°-170° | 257.5   | 2.4       |
| 170°-180° | 87.0    | 0.8       |
| 0°-30°    | 1054.4  | 9.9       |
| 0°-40°    | 1852.5  | 17.3      |
| 0°-60°    | 3597.8  | 33.7      |
| 0°-90°    | 4786.4  | 44.8      |
| 90°-120°  | 2819.7  | 26.4      |
| 90°-150°  | 5135.5  | 48.1      |
| 90°-180°  | 5901.0  | 55.2      |
| 0°-180°   | 10687.2 | 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°  | 6   | 17    | 46   | 23    | 23   | 6    |
| 95°  | 59  | 230   | 764  | 394   | 268  | 65   |
| 105° | 210 | 318   | 1290 | 1958  | 1827 | 223  |
| 115° | 373 | 453   | 1033 | 2061  | 2352 | 369  |
| 125° | 519 | 582   | 940  | 1588  | 1873 | 461  |
| 135° | 619 | 681   | 910  | 1282  | 1453 | 479  |
| 145° | 718 | 764   | 899  | 1094  | 1179 | 450  |
| 155° | 811 | 834   | 899  | 987   | 1015 | 373  |
| 165° | 876 | 887   | 899  | 934   | 946  | 247  |
| 175° | 910 | 910   | 905  | 916   | 916  | 86   |
| 180° | 910 | 910   | 910  | 910   | 910  |      |



TEST NUMBER: P936617

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

**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°    | 6.1   | 11.0  | 15.9  | 17.1  | 26.9   | 39.9   | 46.4   | 41.3   | 30.9   | 23.2   | 23.2   |
| 92.5°  | 24.4  | 65.9  | 107.5 | 117.9 | 165.7  | 229.5  | 261.4  | 229.1  | 164.5  | 116.1  | 111.4  |
| 95°    | 58.7  | 134.7 | 210.7 | 229.7 | 407.8  | 645.5  | 764.2  | 681.9  | 517.4  | 394.0  | 380.0  |
| 97.5°  | 101.4 | 168.5 | 235.5 | 252.3 | 549.4  | 945.5  | 1143.6 | 1091.6 | 987.6  | 909.7  | 883.1  |
| 100°   | 134.4 | 195.2 | 256.0 | 271.2 | 600.9  | 1040.5 | 1260.3 | 1264.0 | 1271.7 | 1277.4 | 1245.7 |
| 102.5° | 162.5 | 219.2 | 275.9 | 290.2 | 624.5  | 1070.4 | 1293.3 | 1359.5 | 1492.0 | 1591.4 | 1564.2 |
| 105°   | 210.1 | 258.2 | 306.2 | 318.2 | 642.0  | 1073.8 | 1289.6 | 1438.1 | 1735.1 | 1957.9 | 1943.3 |
| 107.5° | 259.1 | 303.8 | 348.7 | 359.8 | 645.4  | 1026.0 | 1216.3 | 1423.5 | 1837.9 | 2148.6 | 2152.2 |
| 110°   | 292.1 | 332.5 | 373.0 | 383.0 | 640.4  | 983.7  | 1155.3 | 1386.9 | 1850.0 | 2197.4 | 2212.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 324.4 | 362.9 | 401.4 | 411.1 | 640.6 | 946.6 | 1099.6 | 1336.7 | 1810.7 | 2166.3 | 2189.6 |
| 115°   | 373.3 | 408.8 | 444.4 | 453.3 | 646.5 | 904.2 | 1033.1 | 1261.4 | 1718.0 | 2060.6 | 2093.0 |
| 117.5° | 421.5 | 453.8 | 486.1 | 494.2 | 658.5 | 877.6 | 987.2  | 1193.3 | 1605.4 | 1914.5 | 1950.4 |
| 120°   | 449.6 | 480.1 | 510.4 | 518.0 | 668.3 | 868.7 | 968.9  | 1157.2 | 1533.8 | 1816.2 | 1851.1 |
| 122.5° | 477.1 | 507.8 | 538.5 | 546.2 | 682.4 | 864.0 | 954.8  | 1124.3 | 1463.5 | 1717.8 | 1752.2 |
| 125°   | 519.3 | 547.3 | 575.2 | 582.2 | 701.4 | 860.2 | 939.6  | 1083.6 | 1371.6 | 1587.7 | 1619.4 |
| 127.5° | 553.5 | 581.7 | 610.0 | 617.0 | 720.3 | 857.9 | 926.7  | 1050.4 | 1297.7 | 1483.3 | 1510.1 |
| 130°   | 571.9 | 602.3 | 632.6 | 640.2 | 734.1 | 859.3 | 921.9  | 1032.0 | 1252.2 | 1417.3 | 1442.0 |
| 132.5° | 590.7 | 621.2 | 651.6 | 659.2 | 745.3 | 860.2 | 917.6  | 1016.2 | 1213.3 | 1361.1 | 1383.2 |
| 135°   | 618.9 | 646.5 | 674.2 | 681.1 | 757.5 | 859.4 | 910.2  | 992.8  | 1157.9 | 1281.7 | 1300.8 |
| 137.5° | 647.5 | 675.0 | 702.5 | 709.3 | 775.9 | 864.7 | 909.1  | 978.8  | 1118.4 | 1223.0 | 1238.7 |
| 140°   | 671.3 | 696.6 | 721.8 | 728.2 | 787.0 | 865.5 | 904.7  | 965.0  | 1085.6 | 1176.0 | 1190.6 |
| 142.5° | 689.7 | 713.0 | 736.5 | 742.3 | 796.4 | 868.6 | 904.7  | 957.7  | 1063.6 | 1143.0 | 1155.6 |
| 145°   | 717.8 | 738.1 | 758.5 | 763.6 | 808.7 | 868.6 | 898.7  | 942.0  | 1028.6 | 1093.5 | 1103.0 |
| 147.5° | 745.9 | 765.7 | 785.6 | 790.5 | 826.6 | 874.7 | 898.7  | 932.8  | 1000.9 | 1052.0 | 1059.9 |
| 150°   | 764.2 | 782.1 | 800.1 | 804.5 | 835.9 | 877.7 | 898.7  | 927.4  | 984.9  | 1028.1 | 1034.5 |
| 152.5° | 783.2 | 796.7 | 810.4 | 813.7 | 842.1 | 879.8 | 898.7  | 923.3  | 972.4  | 1009.2 | 1014.1 |
| 155°   | 811.2 | 821.3 | 831.4 | 833.9 | 855.5 | 884.3 | 898.7  | 918.2  | 957.3  | 986.6  | 989.8  |
| 157.5° | 832.1 | 841.9 | 851.6 | 854.0 | 868.9 | 888.8 | 898.7  | 913.9  | 944.2  | 967.1  | 969.3  |
| 160°   | 846.1 | 853.7 | 861.3 | 863.2 | 875.1 | 890.8 | 898.7  | 911.7  | 937.7  | 957.3  | 958.6  |
| 162.5° | 860.2 | 865.9 | 871.6 | 873.0 | 881.6 | 893.0 | 898.7  | 909.7  | 931.6  | 948.1  | 949.3  |
| 165°   | 875.5 | 880.6 | 885.7 | 887.0 | 890.9 | 896.1 | 898.7  | 906.6  | 922.3  | 934.1  | 935.3  |
| 167.5° | 889.5 | 891.9 | 894.3 | 894.9 | 898.2 | 902.5 | 904.7  | 909.8  | 920.2  | 927.9  | 928.5  |
| 170°   | 898.7 | 901.1 | 903.5 | 904.1 | 904.3 | 904.6 | 904.7  | 909.8  | 920.2  | 927.9  | 927.9  |
| 172.5° | 903.5 | 904.0 | 904.6 | 904.7 | 904.7 | 904.7 | 904.7  | 908.8  | 917.0  | 923.1  | 922.6  |
| 175°   | 910.2 | 910.2 | 910.2 | 910.2 | 908.4 | 905.9 | 904.7  | 907.3  | 912.5  | 916.4  | 916.4  |
| 177.5° | 910.2 | 910.2 | 910.2 | 910.2 | 908.9 | 907.0 | 906.0  | 908.1  | 912.1  | 915.2  | 914.6  |
| 180°   | 910.2 | 910.2 | 910.2 | 910.2 | 910.2 | 910.2 | 910.2  | 910.2  | 910.2  | 910.2  | 910.2  |



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CATALOG NUMBER: SQ4-FB-050U-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°    | 23.2   | 23.2   |
| 92.5°  | 93.0   | 74.5   |
| 95°    | 324.1  | 268.1  |
| 97.5°  | 776.6  | 670.2  |
| 100°   | 1118.9 | 992.1  |
| 102.5° | 1455.6 | 1347.0 |
| 105°   | 1885.0 | 1826.6 |
| 107.5° | 2166.2 | 2180.3 |
| 110°   | 2273.4 | 2334.2 |





TEST NUMBER: P936617

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

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 2283.1 | 2376.4 |
| 115°   | 2222.5 | 2352.0 |
| 117.5° | 2094.1 | 2237.7 |
| 120°   | 1990.7 | 2130.2 |
| 122.5° | 1889.9 | 2027.6 |
| 125°   | 1746.2 | 1873.1 |
| 127.5° | 1617.0 | 1724.0 |
| 130°   | 1540.9 | 1639.7 |
| 132.5° | 1471.7 | 1560.2 |
| 135°   | 1377.1 | 1453.3 |
| 137.5° | 1301.1 | 1363.5 |
| 140°   | 1248.9 | 1307.3 |
| 142.5° | 1205.9 | 1256.0 |
| 145°   | 1141.0 | 1179.1 |
| 147.5° | 1091.3 | 1122.9 |
| 150°   | 1060.0 | 1085.6 |
| 152.5° | 1033.3 | 1052.6 |
| 155°   | 1002.6 | 1015.4 |
| 157.5° | 978.2  | 987.2  |
| 160°   | 963.8  | 968.9  |
| 162.5° | 954.2  | 959.2  |
| 165°   | 940.6  | 945.7  |
| 167.5° | 930.7  | 932.9  |
| 170°   | 927.9  | 927.9  |
| 172.5° | 920.7  | 918.8  |
| 175°   | 916.4  | 916.4  |
| 177.5° | 912.4  | 910.2  |
| 180°   | 910.2  | 910.2  |



TEST NUMBER: P936617

CATALOG NUMBER: SQ4-FB-050U-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 | 2.77             | 3.62  | 3.76  | 4.63  | 5.97  | 15.96          | 16.81 | 16.95 | 17.82 | 19.16 |
|                 | 3H   | 3.47             | 4.24  | 4.48  | 5.25  | 6.62  | 17.80          | 18.57 | 18.81 | 19.59 | 20.95 |
|                 | 4H   | 3.77             | 4.49  | 4.79  | 5.52  | 6.88  | 18.45          | 19.18 | 19.47 | 20.20 | 21.57 |
|                 | 6H   | 4.02             | 4.69  | 5.05  | 5.71  | 7.10  | 18.89          | 19.55 | 19.91 | 20.58 | 21.96 |
|                 | 8H   | 4.09             | 4.72  | 5.12  | 5.77  | 7.14  | 19.01          | 19.64 | 20.04 | 20.69 | 22.07 |
|                 | 12H  | 4.10             | 4.71  | 5.14  | 5.75  | 7.15  | 19.08          | 19.68 | 20.12 | 20.72 | 22.12 |
| 4H              | 2H   | 9.99             | 10.71 | 11.01 | 11.74 | 13.10 | 16.23          | 16.96 | 17.25 | 17.98 | 19.35 |
|                 | 3H   | 11.56            | 12.16 | 12.59 | 13.21 | 14.59 | 18.28          | 18.89 | 19.31 | 19.94 | 21.32 |
|                 | 4H   | 11.65            | 12.20 | 12.69 | 13.25 | 14.65 | 19.05          | 19.61 | 20.09 | 20.65 | 22.05 |
|                 | 6H   | 11.66            | 12.14 | 12.71 | 13.20 | 14.60 | 19.59          | 20.07 | 20.64 | 21.14 | 22.54 |
|                 | 8H   | 11.64            | 12.08 | 12.69 | 13.14 | 14.56 | 19.76          | 20.21 | 20.81 | 21.26 | 22.68 |
|                 | 12H  | 11.59            | 12.00 | 12.66 | 13.07 | 14.49 | 19.85          | 20.26 | 20.92 | 21.33 | 22.75 |
| 8H              | 4H   | 13.10            | 13.54 | 14.15 | 14.60 | 16.02 | 19.11          | 19.56 | 20.16 | 20.62 | 22.03 |
|                 | 6H   | 13.34            | 13.71 | 14.41 | 14.81 | 16.22 | 19.74          | 20.11 | 20.82 | 21.21 | 22.63 |
|                 | 8H   | 13.36            | 13.68 | 14.44 | 14.77 | 16.20 | 19.97          | 20.29 | 21.05 | 21.38 | 22.81 |
|                 | 12H  | 13.32            | 13.61 | 14.41 | 14.69 | 16.16 | 20.11          | 20.40 | 21.20 | 21.48 | 22.95 |
| 12H             | 4H   | 13.24            | 13.65 | 14.31 | 14.72 | 16.14 | 19.06          | 19.47 | 20.13 | 20.54 | 21.96 |
|                 | 6H   | 13.60            | 13.92 | 14.68 | 15.01 | 16.44 | 19.73          | 20.05 | 20.81 | 21.14 | 22.57 |
|                 | 8H   | 13.67            | 13.95 | 14.75 | 15.03 | 16.51 | 19.96          | 20.25 | 21.04 | 21.32 | 22.80 |