

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: P936967

Luminaire Tested: SQ4-FB-050U-125D-93050-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

**Test Information**

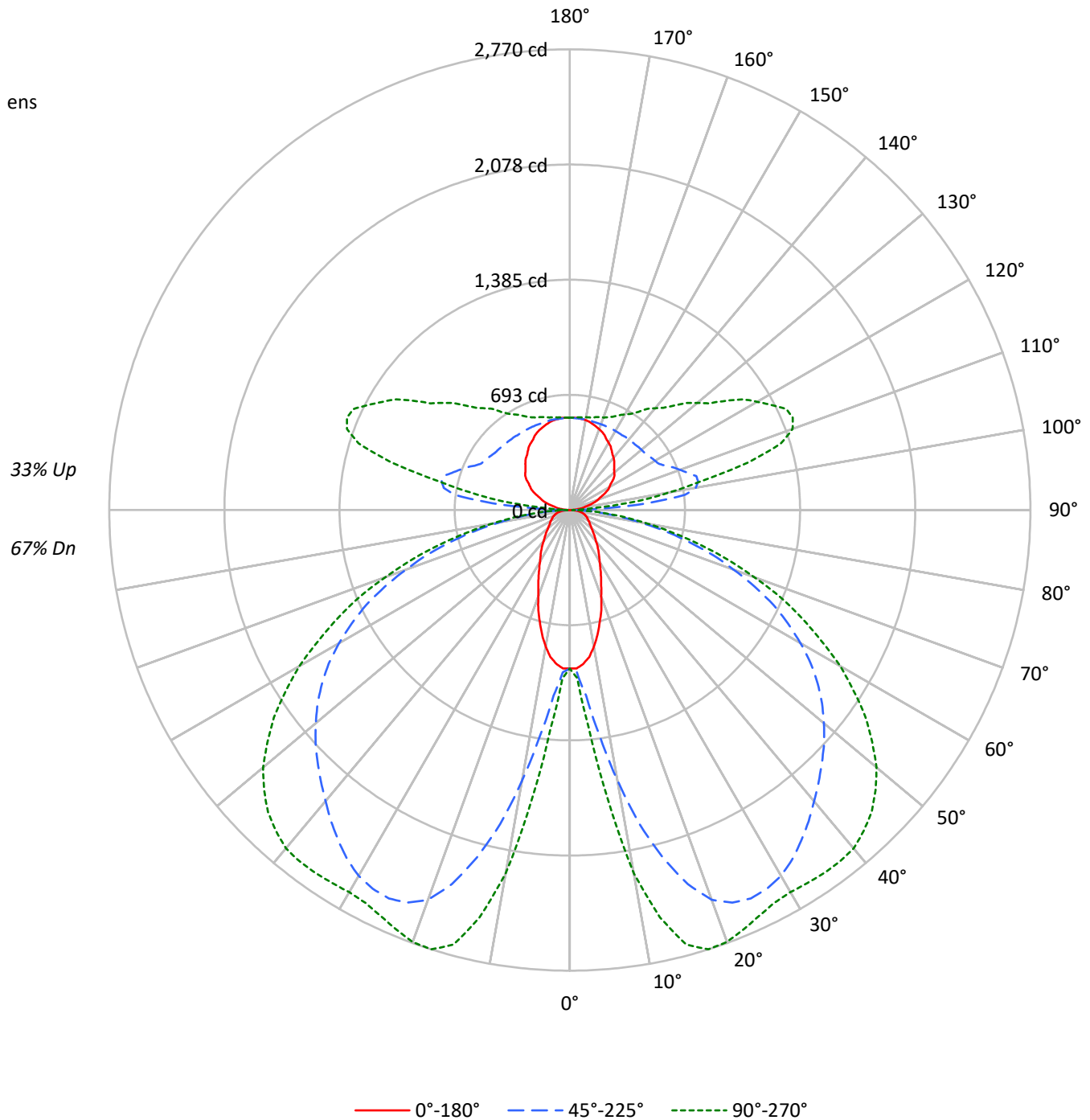
Test Method: LM-79-2019  
Report Number: P936967  
REPORT IS A COMBINATION OF REPORTS P933488 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-050U-125D-93050-1D-UNV-STD-W-8-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10976.9 lumens  
Efficiency: N/A  
Efficacy: 98.0 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-Direct  
  
Input Watts (W): 112  
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: P936967  
CATALOG NUMBER: SQ4-FB-050U-125D-93050-1D-UNV-STD-W-8-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P936967

CATALOG NUMBER: SQ4-FB-050U-125D-93050-1D-UNV-STD-W-8-4000K

**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 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 67 | 67 | 67 | 67 |
| 1   | 101 | 96  | 92  | 88  | 95  | 91  | 87  | 83  | 80 | 78 | 75 | 71 | 69 | 67 | 62 | 61 | 59 | 55 | 55 | 55 | 55 |
| 2   | 91  | 83  | 76  | 71  | 86  | 78  | 72  | 67  | 70 | 65 | 61 | 61 | 58 | 55 | 54 | 51 | 49 | 45 | 45 | 45 | 45 |
| 3   | 83  | 72  | 64  | 58  | 77  | 68  | 61  | 55  | 61 | 55 | 50 | 54 | 49 | 45 | 47 | 44 | 41 | 37 | 37 | 37 | 37 |
| 4   | 75  | 64  | 55  | 48  | 70  | 60  | 52  | 46  | 53 | 47 | 42 | 47 | 42 | 38 | 42 | 38 | 34 | 31 | 31 | 31 | 31 |
| 5   | 69  | 56  | 47  | 41  | 64  | 53  | 45  | 39  | 47 | 41 | 36 | 42 | 37 | 32 | 37 | 33 | 29 | 26 | 26 | 26 | 26 |
| 6   | 63  | 50  | 41  | 35  | 59  | 47  | 39  | 34  | 42 | 36 | 31 | 38 | 32 | 28 | 33 | 29 | 25 | 23 | 23 | 23 | 23 |
| 7   | 58  | 45  | 36  | 30  | 55  | 43  | 35  | 29  | 38 | 32 | 27 | 34 | 29 | 24 | 30 | 26 | 22 | 20 | 20 | 20 | 20 |
| 8   | 54  | 41  | 32  | 27  | 51  | 39  | 31  | 26  | 35 | 28 | 24 | 31 | 26 | 22 | 27 | 23 | 20 | 17 | 17 | 17 | 17 |
| 9   | 50  | 37  | 29  | 24  | 47  | 35  | 28  | 23  | 32 | 25 | 21 | 28 | 23 | 19 | 25 | 21 | 17 | 15 | 15 | 15 | 15 |
| 10  | 47  | 34  | 26  | 21  | 44  | 32  | 25  | 20  | 29 | 23 | 19 | 26 | 21 | 17 | 23 | 19 | 16 | 14 | 14 | 14 | 14 |

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

|     | 0°   | 45°   | 90°   |
|-----|------|-------|-------|
| 0°  | 4421 | 4421  | 4421  |
| 5°  | 4318 | 5109  | 5942  |
| 10° | 3917 | 7448  | 9851  |
| 15° | 3329 | 9730  | 11895 |
| 20° | 2710 | 11276 | 12122 |
| 25° | 2261 | 11800 | 11876 |
| 30° | 1906 | 11874 | 11854 |
| 35° | 1686 | 11677 | 12160 |
| 40° | 1469 | 11420 | 12477 |
| 45° | 1330 | 11233 | 12526 |
| 50° | 1220 | 11064 | 12319 |
| 55° | 1169 | 10817 | 11772 |
| 60° | 1196 | 10341 | 10910 |
| 65° | 1245 | 9619  | 9726  |
| 70° | 1326 | 8389  | 8216  |
| 75° | 1470 | 6840  | 6412  |
| 80° | 1607 | 4743  | 4320  |
| 85° | 1425 | 2517  | 2212  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12526 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 123.2   | 1.1       |
| 10°-20°   | 546.2   | 5.0       |
| 20°-30°   | 955.5   | 8.7       |
| 30°-40°   | 1229.9  | 11.2      |
| 40°-50°   | 1373.8  | 12.5      |
| 50°-60°   | 1315.8  | 12.0      |
| 60°-70°   | 1042.8  | 9.5       |
| 70°-80°   | 613.2   | 5.6       |
| 80°-90°   | 172.5   | 1.6       |
| 90°-100°  | 271.0   | 2.5       |
| 100°-110° | 712.5   | 6.5       |
| 110°-120° | 738.8   | 6.7       |
| 120°-130° | 592.6   | 5.4       |
| 130°-140° | 465.0   | 4.2       |
| 140°-150° | 356.9   | 3.3       |
| 150°-160° | 257.0   | 2.3       |
| 160°-170° | 157.3   | 1.4       |
| 170°-180° | 53.1    | 0.5       |
| 0°-30°    | 1624.9  | 14.8      |
| 0°-40°    | 2854.9  | 26.0      |
| 0°-60°    | 5544.4  | 50.5      |
| 0°-90°    | 7372.9  | 67.2      |
| 90°-120°  | 1722.2  | 15.7      |
| 90°-150°  | 3136.7  | 28.6      |
| 90°-180°  | 3604.0  | 32.8      |
| 0°-180°   | 10976.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 953 | 953   | 953  | 953   | 953  |      |
| 5°   | 928 | 996   | 1121 | 1268  | 1314 | 86   |
| 15°  | 695 | 1284  | 2163 | 2622  | 2705 | 194  |
| 25°  | 444 | 1455  | 2576 | 2690  | 2693 | 205  |
| 35°  | 300 | 1391  | 2426 | 2564  | 2665 | 187  |
| 45°  | 205 | 1109  | 2144 | 2457  | 2567 | 159  |
| 55°  | 147 | 705   | 1820 | 2114  | 2172 | 134  |
| 65°  | 116 | 374   | 1351 | 1520  | 1541 | 115  |
| 75°  | 86  | 230   | 741  | 815   | 818  | 90   |
| 85°  | 31  | 70    | 184  | 202   | 205  | 33   |
| 90°  | 4   | 10    | 28   | 14    | 14   | 5    |
| 95°  | 36  | 140   | 467  | 241   | 164  | 40   |
| 105° | 128 | 194   | 788  | 1196  | 1116 | 136  |
| 115° | 228 | 277   | 631  | 1258  | 1436 | 225  |
| 125° | 317 | 356   | 574  | 970   | 1144 | 282  |
| 135° | 378 | 416   | 556  | 783   | 888  | 292  |
| 145° | 438 | 466   | 549  | 668   | 720  | 275  |
| 155° | 496 | 509   | 549  | 603   | 620  | 228  |
| 165° | 535 | 542   | 549  | 570   | 578  | 151  |
| 175° | 556 | 556   | 553  | 560   | 560  | 53   |
| 180° | 556 | 556   | 556  | 556   | 556  |      |



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CATALOG NUMBER: SQ4-FB-050U-125D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 952.8 | 952.8 | 952.8  | 952.8  | 952.8  | 952.8  | 952.8  | 952.8  | 952.8  | 952.8  | 952.8  |
| 2.5°   | 952.8 | 952.8 | 958.9  | 962.0  | 968.1  | 971.1  | 977.3  | 983.5  | 1001.8 | 1004.9 | 1011.0 |
| 5°     | 928.2 | 940.6 | 980.4  | 995.7  | 1038.6 | 1096.8 | 1121.3 | 1161.1 | 1243.8 | 1268.3 | 1283.6 |
| 7.5°   | 891.5 | 919.1 | 1017.1 | 1041.7 | 1148.8 | 1302.1 | 1366.3 | 1452.1 | 1583.9 | 1648.2 | 1700.3 |
| 10°    | 833.3 | 891.5 | 1066.1 | 1124.3 | 1299.0 | 1531.8 | 1651.3 | 1770.8 | 1969.9 | 2058.8 | 2092.5 |
| 12.5°  | 768.9 | 864.0 | 1118.2 | 1197.9 | 1449.1 | 1789.1 | 1933.2 | 2064.9 | 2291.6 | 2411.1 | 2429.5 |
| 15°    | 695.4 | 824.1 | 1167.2 | 1283.6 | 1608.4 | 2003.6 | 2162.9 | 2325.3 | 2536.7 | 2622.4 | 2643.9 |
| 17.5°  | 631.1 | 793.5 | 1213.2 | 1335.7 | 1730.9 | 2196.6 | 2358.9 | 2493.8 | 2665.3 | 2723.5 | 2738.8 |
| 20°    | 551.4 | 744.5 | 1243.8 | 1403.1 | 1859.7 | 2337.6 | 2493.8 | 2597.9 | 2714.4 | 2751.1 | 2757.2 |
| 22.5°  | 493.2 | 692.4 | 1262.2 | 1427.6 | 1945.4 | 2423.3 | 2555.1 | 2637.7 | 2717.4 | 2729.7 | 2732.8 |
| 25°    | 444.3 | 634.2 | 1259.2 | 1455.2 | 2019.0 | 2475.4 | 2576.5 | 2637.7 | 2683.7 | 2689.9 | 2689.9 |
| 27.5°  | 398.3 | 569.8 | 1246.9 | 1461.4 | 2074.1 | 2487.7 | 2567.3 | 2610.2 | 2631.7 | 2643.9 | 2643.9 |
| 30°    | 358.4 | 508.5 | 1216.3 | 1449.1 | 2098.6 | 2475.4 | 2539.7 | 2561.2 | 2582.6 | 2601.0 | 2610.2 |
| 32.5°  | 327.8 | 450.3 | 1170.3 | 1424.5 | 2101.6 | 2444.7 | 2490.7 | 2503.0 | 2533.6 | 2576.5 | 2591.8 |
| 35°    | 300.2 | 392.1 | 1118.2 | 1390.9 | 2083.2 | 2395.8 | 2426.4 | 2438.6 | 2499.9 | 2564.2 | 2585.7 |
| 37.5°  | 272.6 | 349.2 | 1050.8 | 1332.7 | 2055.7 | 2337.6 | 2358.9 | 2380.4 | 2475.4 | 2552.0 | 2576.5 |
| 40°    | 245.1 | 312.5 | 971.1  | 1268.3 | 2012.8 | 2267.1 | 2285.4 | 2319.1 | 2444.7 | 2533.6 | 2558.1 |
| 42.5°  | 223.7 | 281.9 | 885.4  | 1201.0 | 1957.7 | 2187.4 | 2215.0 | 2264.0 | 2408.0 | 2503.0 | 2530.6 |
| 45°    | 205.3 | 251.2 | 793.5  | 1109.0 | 1887.2 | 2104.7 | 2144.5 | 2211.9 | 2365.1 | 2457.1 | 2481.5 |
| 47.5°  | 186.9 | 229.7 | 698.5  | 1014.1 | 1810.6 | 2021.9 | 2074.1 | 2150.7 | 2306.9 | 2395.8 | 2417.2 |
| 50°    | 171.5 | 208.4 | 603.6  | 912.9  | 1727.9 | 1933.2 | 1994.4 | 2074.1 | 2233.4 | 2316.1 | 2343.6 |
| 52.5°  | 159.3 | 189.9 | 514.7  | 811.8  | 1632.9 | 1841.2 | 1911.7 | 1994.4 | 2144.5 | 2224.2 | 2242.5 |
| 55°    | 147.1 | 174.6 | 438.1  | 704.7  | 1534.9 | 1743.2 | 1819.8 | 1899.5 | 2046.5 | 2113.9 | 2126.1 |
| 57.5°  | 140.9 | 162.4 | 373.7  | 603.6  | 1430.7 | 1632.9 | 1718.7 | 1792.2 | 1930.1 | 1982.1 | 1994.4 |
| 60°    | 131.7 | 153.2 | 324.8  | 517.8  | 1317.4 | 1528.7 | 1602.2 | 1675.8 | 1792.2 | 1835.1 | 1844.3 |
| 62.5°  | 122.6 | 147.1 | 288.0  | 435.0  | 1201.0 | 1406.2 | 1479.8 | 1547.1 | 1645.1 | 1675.8 | 1688.0 |
| 65°    | 116.4 | 140.9 | 260.4  | 373.7  | 1081.5 | 1277.5 | 1351.0 | 1409.2 | 1488.9 | 1519.6 | 1525.6 |
| 67.5°  | 110.2 | 134.8 | 239.0  | 321.7  | 962.0  | 1148.8 | 1204.0 | 1259.2 | 1320.4 | 1351.0 | 1354.1 |
| 70°    | 101.1 | 128.7 | 220.6  | 284.9  | 839.4  | 1001.8 | 1047.7 | 1105.9 | 1155.0 | 1170.3 | 1179.5 |
| 72.5°  | 95.0  | 119.5 | 208.4  | 257.3  | 713.8  | 860.9  | 903.8  | 937.5  | 980.4  | 995.7  | 995.7  |
| 75°    | 85.8  | 107.3 | 196.1  | 229.7  | 585.2  | 704.7  | 741.4  | 775.1  | 808.8  | 814.9  | 805.8  |
| 77.5°  | 76.6  | 95.0  | 168.5  | 193.0  | 456.5  | 557.6  | 588.2  | 606.6  | 634.2  | 640.3  | 643.4  |
| 80°    | 64.4  | 82.7  | 131.7  | 150.1  | 330.8  | 410.5  | 431.9  | 447.3  | 471.8  | 471.8  | 477.9  |
| 82.5°  | 49.1  | 64.4  | 95.0   | 107.3  | 223.7  | 281.9  | 300.2  | 309.4  | 324.8  | 324.8  | 324.8  |
| 85°    | 30.6  | 39.8  | 61.3   | 70.4   | 134.8  | 171.5  | 183.8  | 186.9  | 199.1  | 202.2  | 202.2  |
| 87.5°  | 15.3  | 21.5  | 39.8   | 42.9   | 70.4   | 88.9   | 88.9   | 95.0   | 95.0   | 91.9   | 88.9   |
| 90°    | 3.7   | 6.7   | 9.7    | 10.4   | 16.4   | 24.3   | 28.3   | 25.2   | 18.9   | 14.2   | 14.2   |
| 92.5°  | 14.9  | 40.3  | 65.7   | 72.1   | 101.3  | 140.2  | 159.7  | 139.9  | 100.5  | 70.9   | 68.1   |
| 95°    | 35.8  | 82.3  | 128.7  | 140.3  | 249.1  | 394.2  | 466.8  | 416.6  | 316.1  | 240.7  | 232.2  |
| 97.5°  | 61.9  | 102.8 | 143.8  | 154.1  | 335.5  | 577.5  | 698.5  | 666.7  | 603.2  | 555.6  | 539.3  |
| 100°   | 82.1  | 119.2 | 156.3  | 165.6  | 367.0  | 635.5  | 769.7  | 772.1  | 776.7  | 780.2  | 760.8  |
| 102.5° | 99.3  | 134.0 | 168.5  | 177.2  | 381.4  | 653.8  | 789.9  | 830.4  | 911.3  | 972.0  | 955.4  |
| 105°   | 128.4 | 157.7 | 187.1  | 194.4  | 392.2  | 655.9  | 787.7  | 878.4  | 1059.9 | 1195.9 | 1186.9 |
| 107.5° | 158.2 | 185.6 | 212.9  | 219.8  | 394.1  | 626.6  | 742.9  | 869.4  | 1122.5 | 1312.3 | 1314.5 |
| 110°   | 178.3 | 203.0 | 227.8  | 234.0  | 391.2  | 600.8  | 705.6  | 847.0  | 1129.9 | 1342.1 | 1351.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 112.5° | 198.1 | 221.7 | 245.2 | 251.1 | 391.3 | 578.2 | 671.6 | 816.4 | 1105.9 | 1323.1 | 1337.4 |
| 115°   | 228.0 | 249.7 | 271.5 | 276.9 | 394.9 | 552.3 | 631.0 | 770.5 | 1049.4 | 1258.5 | 1278.3 |
| 117.5° | 257.4 | 277.2 | 296.9 | 301.9 | 402.3 | 536.0 | 602.9 | 728.8 | 980.6  | 1169.4 | 1191.3 |
| 120°   | 274.6 | 293.2 | 311.8 | 316.4 | 408.2 | 530.6 | 591.8 | 706.7 | 936.8  | 1109.3 | 1130.5 |
| 122.5° | 291.4 | 310.1 | 328.8 | 333.6 | 416.7 | 527.7 | 583.2 | 686.7 | 893.9  | 1049.3 | 1070.3 |
| 125°   | 317.2 | 334.2 | 351.3 | 355.5 | 428.3 | 525.4 | 573.9 | 661.9 | 837.8  | 969.8  | 989.2  |
| 127.5° | 338.1 | 355.3 | 372.5 | 376.8 | 439.9 | 524.0 | 566.0 | 641.6 | 792.6  | 906.0  | 922.3  |
| 130°   | 349.2 | 367.8 | 386.4 | 391.0 | 448.3 | 524.8 | 563.0 | 630.3 | 764.8  | 865.6  | 880.7  |
| 132.5° | 360.8 | 379.4 | 398.0 | 402.6 | 455.2 | 525.4 | 560.5 | 620.7 | 741.1  | 831.3  | 844.8  |
| 135°   | 378.0 | 394.9 | 411.8 | 416.0 | 462.6 | 524.8 | 555.9 | 606.4 | 707.2  | 782.8  | 794.5  |
| 137.5° | 395.6 | 412.3 | 429.0 | 433.2 | 473.9 | 528.1 | 555.2 | 597.9 | 683.1  | 747.0  | 756.5  |
| 140°   | 410.0 | 425.5 | 440.9 | 444.8 | 480.7 | 528.6 | 552.6 | 589.4 | 663.0  | 718.2  | 727.1  |
| 142.5° | 421.3 | 435.5 | 449.8 | 453.3 | 486.4 | 530.5 | 552.6 | 584.9 | 649.6  | 698.2  | 705.8  |
| 145°   | 438.5 | 450.9 | 463.4 | 466.4 | 493.9 | 530.6 | 548.9 | 575.3 | 628.3  | 667.9  | 673.7  |
| 147.5° | 455.6 | 467.7 | 479.8 | 482.8 | 504.8 | 534.2 | 548.9 | 569.7 | 611.3  | 642.5  | 647.3  |
| 150°   | 466.8 | 477.7 | 488.7 | 491.4 | 510.6 | 536.1 | 548.9 | 566.4 | 601.7  | 628.0  | 631.9  |
| 152.5° | 478.4 | 486.7 | 494.9 | 497.0 | 514.3 | 537.4 | 548.9 | 563.9 | 593.9  | 616.4  | 619.4  |
| 155°   | 495.5 | 501.6 | 507.8 | 509.3 | 522.5 | 540.1 | 548.9 | 560.8 | 584.6  | 602.6  | 604.6  |
| 157.5° | 508.2 | 514.1 | 520.1 | 521.6 | 530.7 | 542.8 | 548.9 | 558.1 | 576.7  | 590.6  | 592.0  |
| 160°   | 516.8 | 521.5 | 526.1 | 527.3 | 534.5 | 544.1 | 548.9 | 556.9 | 572.7  | 584.6  | 585.5  |
| 162.5° | 525.4 | 528.9 | 532.3 | 533.2 | 538.5 | 545.5 | 548.9 | 555.6 | 569.1  | 579.1  | 579.8  |
| 165°   | 534.7 | 537.8 | 540.9 | 541.7 | 544.1 | 547.3 | 548.9 | 553.7 | 563.3  | 570.5  | 571.3  |
| 167.5° | 543.3 | 544.7 | 546.3 | 546.6 | 548.6 | 551.2 | 552.6 | 555.8 | 562.1  | 566.8  | 567.2  |
| 170°   | 548.9 | 550.3 | 551.9 | 552.2 | 552.3 | 552.5 | 552.6 | 555.8 | 562.1  | 566.8  | 566.8  |
| 172.5° | 551.9 | 552.2 | 552.5 | 552.6 | 552.6 | 552.6 | 552.6 | 555.1 | 560.1  | 563.8  | 563.6  |
| 175°   | 555.9 | 555.9 | 555.9 | 555.9 | 554.9 | 553.3 | 552.6 | 554.1 | 557.3  | 559.7  | 559.7  |
| 177.5° | 555.9 | 555.9 | 555.9 | 555.9 | 555.0 | 553.9 | 553.3 | 554.6 | 557.0  | 558.9  | 558.6  |
| 180°   | 555.9 | 555.9 | 555.9 | 555.9 | 555.9 | 555.9 | 555.9 | 555.9 | 555.9  | 555.9  | 555.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 952.8  | 952.8  |
| 2.5°   | 1017.1 | 1011.0 |
| 5°     | 1308.1 | 1314.3 |
| 7.5°   | 1761.5 | 1758.5 |
| 10°    | 2190.5 | 2218.1 |
| 12.5°  | 2503.0 | 2509.1 |
| 15°    | 2692.9 | 2705.2 |
| 17.5°  | 2766.4 | 2769.5 |
| 20°    | 2769.5 | 2763.4 |
| 22.5°  | 2735.8 | 2729.7 |
| 25°    | 2696.0 | 2692.9 |
| 27.5°  | 2659.2 | 2662.3 |
| 30°    | 2643.9 | 2653.1 |
| 32.5°  | 2643.9 | 2659.2 |
| 35°    | 2650.0 | 2665.3 |
| 37.5°  | 2647.0 | 2665.3 |
| 40°    | 2634.7 | 2656.2 |
| 42.5°  | 2601.0 | 2616.4 |
| 45°    | 2548.9 | 2567.3 |
| 47.5°  | 2481.5 | 2493.8 |
| 50°    | 2395.8 | 2408.0 |
| 52.5°  | 2288.5 | 2291.6 |
| 55°    | 2159.8 | 2172.1 |
| 57.5°  | 2021.9 | 2025.0 |
| 60°    | 1868.8 | 1878.0 |
| 62.5°  | 1706.4 | 1706.4 |
| 65°    | 1534.9 | 1541.0 |
| 67.5°  | 1357.2 | 1372.5 |
| 70°    | 1176.4 | 1179.5 |
| 72.5°  | 998.8  | 998.8  |
| 75°    | 814.9  | 818.0  |
| 77.5°  | 640.3  | 640.3  |
| 80°    | 474.8  | 477.9  |
| 82.5°  | 327.8  | 333.9  |
| 85°    | 205.3  | 205.3  |
| 87.5°  | 95.0   | 85.8   |
| 90°    | 14.2   | 14.2   |
| 92.5°  | 56.8   | 45.5   |
| 95°    | 198.0  | 163.8  |
| 97.5°  | 474.3  | 409.3  |
| 100°   | 683.4  | 605.9  |
| 102.5° | 889.0  | 822.7  |
| 105°   | 1151.3 | 1115.6 |
| 107.5° | 1323.1 | 1331.7 |
| 110°   | 1388.5 | 1425.7 |





TEST NUMBER: P936967

CATALOG NUMBER: SQ4-FB-050U-125D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 1394.4 | 1451.4 |
| 115°   | 1357.4 | 1436.5 |
| 117.5° | 1279.1 | 1366.8 |
| 120°   | 1215.8 | 1301.1 |
| 122.5° | 1154.4 | 1238.4 |
| 125°   | 1066.6 | 1144.0 |
| 127.5° | 987.6  | 1053.0 |
| 130°   | 941.1  | 1001.5 |
| 132.5° | 898.9  | 953.0  |
| 135°   | 841.1  | 887.7  |
| 137.5° | 794.7  | 832.8  |
| 140°   | 762.8  | 798.4  |
| 142.5° | 736.4  | 767.1  |
| 145°   | 697.0  | 720.1  |
| 147.5° | 666.6  | 685.8  |
| 150°   | 647.5  | 663.0  |
| 152.5° | 631.2  | 642.9  |
| 155°   | 612.3  | 620.1  |
| 157.5° | 597.5  | 602.9  |
| 160°   | 588.6  | 591.8  |
| 162.5° | 582.8  | 585.8  |
| 165°   | 574.4  | 577.6  |
| 167.5° | 568.4  | 569.8  |
| 170°   | 566.8  | 566.8  |
| 172.5° | 562.4  | 561.2  |
| 175°   | 559.7  | 559.7  |
| 177.5° | 557.3  | 555.9  |
| 180°   | 555.9  | 555.9  |



TEST NUMBER: P936967  
 CATALOG NUMBER: SQ4-FB-050U-125D-93050-1D-UNV-STD-W-8-4000K

**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 | 7.60             | 8.69  | 8.38  | 9.51  | 10.51 | 20.78          | 21.87 | 21.56 | 22.69 | 23.69 |
|                 | 3H   | 8.32             | 9.31  | 9.12  | 10.13 | 11.16 | 22.63          | 23.62 | 23.43 | 24.44 | 25.47 |
|                 | 4H   | 8.63             | 9.56  | 9.44  | 10.40 | 11.43 | 23.29          | 24.22 | 24.10 | 25.06 | 26.09 |
|                 | 6H   | 8.89             | 9.76  | 9.72  | 10.60 | 11.65 | 23.73          | 24.59 | 24.56 | 25.43 | 26.49 |
|                 | 8H   | 8.97             | 9.79  | 9.80  | 10.65 | 11.70 | 23.86          | 24.68 | 24.70 | 25.54 | 26.60 |
|                 | 12H  | 8.99             | 9.78  | 9.84  | 10.63 | 11.71 | 23.93          | 24.72 | 24.78 | 25.57 | 26.66 |
| 4H              | 2H   | 14.84            | 15.77 | 15.66 | 16.61 | 17.65 | 21.08          | 22.01 | 21.90 | 22.84 | 23.88 |
|                 | 3H   | 16.43            | 17.21 | 17.26 | 18.08 | 19.13 | 23.14          | 23.93 | 23.98 | 24.79 | 25.85 |
|                 | 4H   | 16.53            | 17.25 | 17.38 | 18.11 | 19.19 | 23.92          | 24.64 | 24.77 | 25.50 | 26.58 |
|                 | 6H   | 16.56            | 17.18 | 17.42 | 18.07 | 19.15 | 24.47          | 25.10 | 25.34 | 25.98 | 27.07 |
|                 | 8H   | 16.54            | 17.12 | 17.41 | 18.01 | 19.10 | 24.64          | 25.22 | 25.51 | 26.11 | 27.21 |
|                 | 12H  | 16.51            | 17.03 | 17.40 | 17.94 | 19.04 | 24.75          | 25.27 | 25.63 | 26.18 | 27.28 |
| 8H              | 4H   | 18.00            | 18.58 | 18.86 | 19.46 | 20.56 | 24.00          | 24.58 | 24.87 | 25.47 | 26.57 |
|                 | 6H   | 18.25            | 18.73 | 19.15 | 19.66 | 20.76 | 24.64          | 25.13 | 25.54 | 26.05 | 27.15 |
|                 | 8H   | 18.27            | 18.70 | 19.18 | 19.62 | 20.74 | 24.87          | 25.29 | 25.77 | 26.21 | 27.33 |
|                 | 12H  | 18.25            | 18.63 | 19.16 | 19.54 | 20.71 | 25.02          | 25.40 | 25.93 | 26.31 | 27.48 |
| 12H             | 4H   | 18.15            | 18.68 | 19.04 | 19.58 | 20.69 | 23.97          | 24.49 | 24.85 | 25.39 | 26.50 |
|                 | 6H   | 18.51            | 18.94 | 19.42 | 19.86 | 20.98 | 24.63          | 25.06 | 25.53 | 25.98 | 27.09 |
|                 | 8H   | 18.59            | 18.97 | 19.50 | 19.88 | 21.05 | 24.87          | 25.25 | 25.78 | 26.16 | 27.33 |