

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: P936949

Luminaire Tested: SQ4-FB-050U-125D-930-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

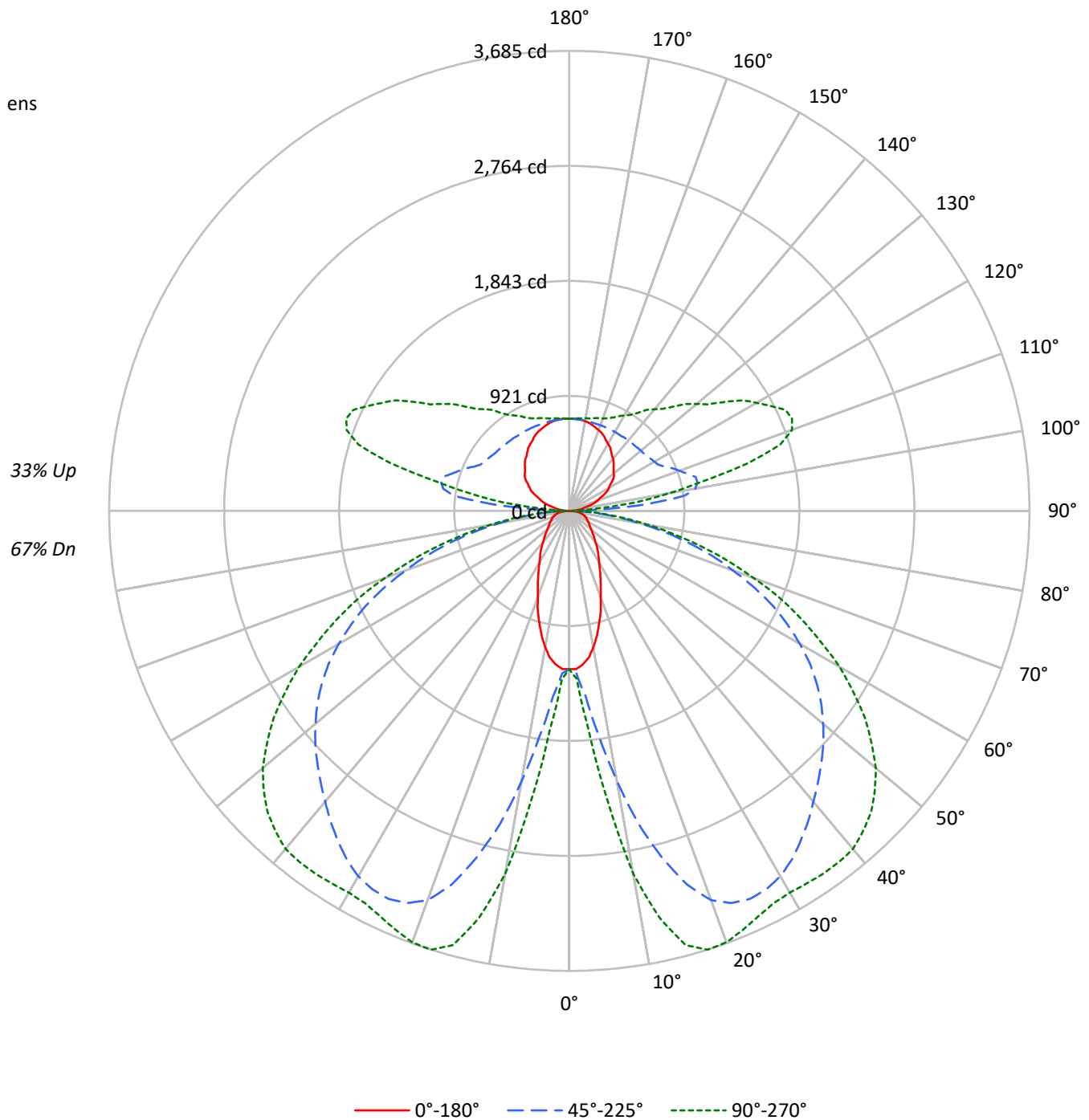
Test Method: LM-79-2019  
Report Number: P936949  
REPORT IS A COMBINATION OF REPORTS P933464 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-050U-125D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14606.6 lumens  
Efficiency: N/A  
Efficacy: 86.9 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-Direct  
  
Input Watts (W): 168  
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: P936949  
CATALOG NUMBER: SQ4-FB-050U-125D-930-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P936949

CATALOG NUMBER: SQ4-FB-050U-125D-930-1D-UNV-STD-W-12

**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   | 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°  | 3922 | 3922  | 3922  |
| 5°  | 3832 | 4534  | 5271  |
| 10° | 3478 | 6610  | 8738  |
| 15° | 2957 | 8638  | 10552 |
| 20° | 2408 | 10012 | 10754 |
| 25° | 2010 | 10480 | 10535 |
| 30° | 1695 | 10549 | 10515 |
| 35° | 1500 | 10377 | 10787 |
| 40° | 1308 | 10152 | 11068 |
| 45° | 1185 | 9988  | 11112 |
| 50° | 1088 | 9841  | 10928 |
| 55° | 1043 | 9625  | 10443 |
| 60° | 1069 | 9207  | 9678  |
| 65° | 1114 | 8569  | 8627  |
| 70° | 1189 | 7478  | 7289  |
| 75° | 1322 | 6103  | 5688  |
| 80° | 1456 | 4237  | 3833  |
| 85° | 1322 | 2252  | 1961  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 11112 cd/sqm



TEST NUMBER: P936949

CATALOG NUMBER: SQ4-FB-050U-125D-930-1D-UNV-STD-W-12

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 164.0   | 1.1       |
| 10°-20°   | 726.8   | 5.0       |
| 20°-30°   | 1271.4  | 8.7       |
| 30°-40°   | 1636.6  | 11.2      |
| 40°-50°   | 1828.0  | 12.5      |
| 50°-60°   | 1750.8  | 12.0      |
| 60°-70°   | 1387.6  | 9.5       |
| 70°-80°   | 815.9   | 5.6       |
| 80°-90°   | 229.5   | 1.6       |
| 90°-100°  | 360.6   | 2.5       |
| 100°-110° | 948.1   | 6.5       |
| 110°-120° | 983.1   | 6.7       |
| 120°-130° | 788.5   | 5.4       |
| 130°-140° | 618.7   | 4.2       |
| 140°-150° | 474.9   | 3.3       |
| 150°-160° | 342.0   | 2.3       |
| 160°-170° | 209.3   | 1.4       |
| 170°-180° | 70.7    | 0.5       |
| 0°-30°    | 2162.2  | 14.8      |
| 0°-40°    | 3798.8  | 26.0      |
| 0°-60°    | 7377.7  | 50.5      |
| 0°-90°    | 9810.7  | 67.2      |
| 90°-120°  | 2291.7  | 15.7      |
| 90°-150°  | 4173.9  | 28.6      |
| 90°-180°  | 4796.0  | 32.8      |
| 0°-180°   | 14606.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1268 | 1268  | 1268 | 1268  | 1268 |      |
| 5°   | 1235 | 1325  | 1492 | 1688  | 1749 | 114  |
| 15°  | 925  | 1708  | 2878 | 3490  | 3600 | 258  |
| 25°  | 591  | 1936  | 3428 | 3579  | 3583 | 272  |
| 35°  | 400  | 1851  | 3229 | 3412  | 3547 | 249  |
| 45°  | 273  | 1476  | 2854 | 3269  | 3416 | 211  |
| 55°  | 196  | 938   | 2422 | 2813  | 2890 | 178  |
| 65°  | 155  | 497   | 1798 | 2022  | 2050 | 154  |
| 75°  | 114  | 306   | 987  | 1084  | 1088 | 119  |
| 85°  | 41   | 94    | 245  | 269   | 273  | 43   |
| 90°  | 5    | 14    | 38   | 19    | 19   | 7    |
| 95°  | 48   | 187   | 621  | 320   | 218  | 53   |
| 105° | 171  | 259   | 1048 | 1591  | 1485 | 181  |
| 115° | 303  | 368   | 840  | 1675  | 1912 | 300  |
| 125° | 422  | 473   | 764  | 1290  | 1522 | 375  |
| 135° | 503  | 554   | 740  | 1042  | 1181 | 389  |
| 145° | 583  | 621   | 730  | 889   | 958  | 365  |
| 155° | 659  | 678   | 730  | 802   | 825  | 303  |
| 165° | 712  | 721   | 730  | 759   | 769  | 201  |
| 175° | 740  | 740   | 735  | 745   | 745  | 70   |
| 180° | 740  | 740   | 740  | 740   | 740  |      |



TEST NUMBER: P936949  
 CATALOG NUMBER: SQ4-FB-050U-125D-930-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1267.9 | 1267.9 | 1267.9 | 1267.9 | 1267.9 | 1267.9 | 1267.9 | 1267.9 | 1267.9 | 1267.9 | 1267.9 |
| 2.5°   | 1267.9 | 1267.9 | 1276.0 | 1280.1 | 1288.2 | 1292.3 | 1300.5 | 1308.6 | 1333.1 | 1337.2 | 1345.3 |
| 5°     | 1235.2 | 1251.5 | 1304.5 | 1324.9 | 1382.0 | 1459.5 | 1492.1 | 1545.1 | 1655.1 | 1687.7 | 1708.1 |
| 7.5°   | 1186.3 | 1223.0 | 1353.5 | 1386.1 | 1528.8 | 1732.6 | 1818.2 | 1932.3 | 2107.6 | 2193.2 | 2262.5 |
| 10°    | 1108.9 | 1186.3 | 1418.7 | 1496.1 | 1728.5 | 2038.3 | 2197.2 | 2356.2 | 2621.2 | 2739.4 | 2784.3 |
| 12.5°  | 1023.3 | 1149.6 | 1488.0 | 1594.0 | 1928.2 | 2380.7 | 2572.3 | 2747.6 | 3049.3 | 3208.3 | 3232.7 |
| 15°    | 925.4  | 1096.6 | 1553.2 | 1708.1 | 2140.2 | 2666.1 | 2878.0 | 3094.1 | 3375.4 | 3489.6 | 3518.1 |
| 17.5°  | 839.8  | 1055.9 | 1614.4 | 1777.4 | 2303.2 | 2922.9 | 3139.0 | 3318.3 | 3546.6 | 3624.1 | 3644.5 |
| 20°    | 733.8  | 990.6  | 1655.1 | 1867.1 | 2474.5 | 3110.4 | 3318.3 | 3456.9 | 3611.9 | 3660.8 | 3668.9 |
| 22.5°  | 656.3  | 921.3  | 1679.6 | 1899.7 | 2588.6 | 3224.6 | 3399.9 | 3509.9 | 3615.9 | 3632.2 | 3636.3 |
| 25°    | 591.1  | 843.9  | 1675.5 | 1936.4 | 2686.4 | 3293.9 | 3428.4 | 3509.9 | 3571.1 | 3579.2 | 3579.2 |
| 27.5°  | 530.0  | 758.3  | 1659.2 | 1944.5 | 2759.8 | 3310.2 | 3416.2 | 3473.2 | 3501.8 | 3518.1 | 3518.1 |
| 30°    | 477.0  | 676.7  | 1618.4 | 1928.2 | 2792.4 | 3293.9 | 3379.5 | 3408.0 | 3436.6 | 3461.0 | 3473.2 |
| 32.5°  | 436.2  | 599.3  | 1557.3 | 1895.6 | 2796.5 | 3253.1 | 3314.3 | 3330.6 | 3371.3 | 3428.4 | 3448.8 |
| 35°    | 399.5  | 521.8  | 1488.0 | 1850.8 | 2772.1 | 3187.9 | 3228.6 | 3245.0 | 3326.5 | 3412.1 | 3440.6 |
| 37.5°  | 362.8  | 464.7  | 1398.3 | 1773.3 | 2735.4 | 3110.4 | 3139.0 | 3167.5 | 3293.9 | 3395.8 | 3428.4 |
| 40°    | 326.1  | 415.8  | 1292.3 | 1687.7 | 2678.3 | 3016.7 | 3041.1 | 3086.0 | 3253.1 | 3371.3 | 3403.9 |
| 42.5°  | 297.6  | 375.1  | 1178.2 | 1598.1 | 2604.9 | 2910.7 | 2947.4 | 3012.6 | 3204.2 | 3330.6 | 3367.3 |
| 45°    | 273.1  | 334.3  | 1055.9 | 1475.8 | 2511.1 | 2800.6 | 2853.6 | 2943.3 | 3147.1 | 3269.4 | 3302.0 |
| 47.5°  | 248.7  | 305.8  | 929.5  | 1349.4 | 2409.2 | 2690.5 | 2759.8 | 2861.7 | 3069.7 | 3187.9 | 3216.4 |
| 50°    | 228.3  | 277.2  | 803.1  | 1214.9 | 2299.2 | 2572.3 | 2653.8 | 2759.8 | 2971.8 | 3081.9 | 3118.6 |
| 52.5°  | 212.0  | 252.8  | 684.9  | 1080.3 | 2172.8 | 2450.0 | 2543.8 | 2653.8 | 2853.6 | 2959.6 | 2984.0 |
| 55°    | 195.7  | 232.4  | 583.0  | 937.6  | 2042.4 | 2319.5 | 2421.5 | 2527.5 | 2723.1 | 2812.8 | 2829.1 |
| 57.5°  | 187.5  | 216.1  | 497.4  | 803.1  | 1903.8 | 2172.8 | 2286.9 | 2384.8 | 2568.2 | 2637.5 | 2653.8 |
| 60°    | 175.3  | 203.8  | 432.1  | 689.0  | 1752.9 | 2034.2 | 2132.0 | 2229.9 | 2384.8 | 2441.8 | 2454.1 |
| 62.5°  | 163.1  | 195.7  | 383.2  | 578.9  | 1598.1 | 1871.2 | 1969.0 | 2058.7 | 2189.1 | 2229.9 | 2246.2 |
| 65°    | 154.9  | 187.5  | 346.5  | 497.4  | 1439.1 | 1700.0 | 1797.8 | 1875.2 | 1981.2 | 2022.0 | 2030.1 |
| 67.5°  | 146.8  | 179.4  | 318.0  | 428.1  | 1280.1 | 1528.8 | 1602.1 | 1675.5 | 1757.0 | 1797.8 | 1801.9 |
| 70°    | 134.5  | 171.2  | 293.5  | 379.1  | 1117.0 | 1333.1 | 1394.2 | 1471.7 | 1536.9 | 1557.3 | 1569.5 |
| 72.5°  | 126.4  | 159.0  | 277.2  | 342.4  | 949.9  | 1145.6 | 1202.6 | 1247.5 | 1304.5 | 1324.9 | 1324.9 |
| 75°    | 114.1  | 142.7  | 260.9  | 305.8  | 778.6  | 937.6  | 986.6  | 1031.4 | 1076.2 | 1084.4 | 1072.2 |
| 77.5°  | 101.9  | 126.4  | 224.2  | 256.8  | 607.4  | 742.0  | 782.7  | 807.2  | 843.9  | 852.0  | 856.1  |
| 80°    | 85.6   | 110.1  | 175.3  | 199.8  | 440.3  | 546.3  | 574.8  | 595.2  | 627.8  | 627.8  | 636.0  |
| 82.5°  | 65.2   | 85.6   | 126.4  | 142.7  | 297.6  | 375.1  | 399.5  | 411.7  | 432.1  | 432.1  | 432.1  |
| 85°    | 40.8   | 53.0   | 81.5   | 93.8   | 179.4  | 228.3  | 244.6  | 248.7  | 265.0  | 269.1  | 269.1  |
| 87.5°  | 20.4   | 28.5   | 53.0   | 57.1   | 93.8   | 118.2  | 118.2  | 126.4  | 126.4  | 122.3  | 118.2  |
| 90°    | 5.0    | 8.9    | 12.9   | 13.9   | 21.8   | 32.4   | 37.7   | 33.6   | 25.1   | 18.9   | 18.9   |
| 92.5°  | 19.8   | 53.6   | 87.4   | 95.8   | 134.7  | 186.5  | 212.5  | 186.2  | 133.7  | 94.4   | 90.6   |
| 95°    | 47.7   | 109.4  | 171.3  | 186.7  | 331.5  | 524.6  | 621.1  | 554.2  | 420.5  | 320.2  | 308.8  |
| 97.5°  | 82.4   | 136.9  | 191.4  | 205.1  | 446.5  | 768.5  | 929.5  | 887.2  | 802.7  | 739.3  | 717.7  |
| 100°   | 109.2  | 158.7  | 208.1  | 220.4  | 488.4  | 845.6  | 1024.3 | 1027.4 | 1033.5 | 1038.2 | 1012.4 |
| 102.5° | 132.1  | 178.2  | 224.3  | 235.8  | 507.6  | 870.0  | 1051.1 | 1104.9 | 1212.6 | 1293.4 | 1271.3 |
| 105°   | 170.8  | 209.8  | 248.8  | 258.6  | 521.8  | 872.7  | 1048.2 | 1168.8 | 1410.2 | 1591.3 | 1579.4 |
| 107.5° | 210.5  | 246.9  | 283.4  | 292.5  | 524.5  | 833.9  | 988.6  | 1157.0 | 1493.7 | 1746.3 | 1749.2 |
| 110°   | 237.4  | 270.2  | 303.1  | 311.3  | 520.5  | 799.5  | 938.9  | 1127.2 | 1503.6 | 1786.0 | 1798.3 |



TEST NUMBER: P936949

CATALOG NUMBER: SQ4-FB-050U-125D-930-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 263.6 | 294.9 | 326.3 | 334.1 | 520.7 | 769.4 | 893.7 | 1086.4 | 1471.7 | 1760.7 | 1779.6 |
| 115°   | 303.4 | 332.3 | 361.2 | 368.4 | 525.5 | 734.9 | 839.6 | 1025.2 | 1396.3 | 1674.7 | 1701.1 |
| 117.5° | 342.6 | 368.8 | 395.1 | 401.7 | 535.2 | 713.3 | 802.4 | 969.9  | 1304.8 | 1556.1 | 1585.2 |
| 120°   | 365.4 | 390.2 | 414.8 | 421.0 | 543.1 | 706.1 | 787.5 | 940.6  | 1246.6 | 1476.2 | 1504.5 |
| 122.5° | 387.8 | 412.7 | 437.6 | 443.9 | 554.6 | 702.2 | 776.0 | 913.8  | 1189.5 | 1396.2 | 1424.1 |
| 125°   | 422.1 | 444.8 | 467.5 | 473.2 | 570.0 | 699.1 | 763.7 | 880.7  | 1114.8 | 1290.4 | 1316.2 |
| 127.5° | 449.8 | 472.8 | 495.8 | 501.5 | 585.4 | 697.2 | 753.2 | 853.7  | 1054.7 | 1205.5 | 1227.3 |
| 130°   | 464.8 | 489.5 | 514.2 | 520.3 | 596.6 | 698.4 | 749.3 | 838.7  | 1017.7 | 1151.9 | 1172.0 |
| 132.5° | 480.1 | 504.8 | 529.6 | 535.8 | 605.8 | 699.1 | 745.7 | 825.9  | 986.1  | 1106.2 | 1124.2 |
| 135°   | 503.0 | 525.5 | 548.0 | 553.6 | 615.7 | 698.4 | 739.8 | 806.9  | 941.1  | 1041.7 | 1057.2 |
| 137.5° | 526.3 | 548.6 | 570.9 | 576.5 | 630.6 | 702.8 | 738.8 | 795.5  | 909.0  | 994.0  | 1006.7 |
| 140°   | 545.6 | 566.2 | 586.7 | 591.8 | 639.7 | 703.4 | 735.3 | 784.3  | 882.3  | 955.8  | 967.7  |
| 142.5° | 560.6 | 579.5 | 598.6 | 603.3 | 647.3 | 706.0 | 735.3 | 778.3  | 864.4  | 929.0  | 939.2  |
| 145°   | 583.4 | 599.9 | 616.5 | 620.6 | 657.3 | 706.0 | 730.4 | 765.6  | 836.0  | 888.8  | 896.5  |
| 147.5° | 606.3 | 622.3 | 638.5 | 642.5 | 671.8 | 710.9 | 730.4 | 758.1  | 813.5  | 855.0  | 861.5  |
| 150°   | 621.1 | 635.7 | 650.3 | 653.9 | 679.4 | 713.4 | 730.4 | 753.8  | 800.5  | 835.6  | 840.8  |
| 152.5° | 636.5 | 647.5 | 658.6 | 661.4 | 684.4 | 715.1 | 730.4 | 750.4  | 790.3  | 820.3  | 824.2  |
| 155°   | 659.3 | 667.5 | 675.7 | 677.7 | 695.3 | 718.7 | 730.4 | 746.3  | 778.0  | 801.9  | 804.4  |
| 157.5° | 676.3 | 684.2 | 692.1 | 694.1 | 706.2 | 722.4 | 730.4 | 742.8  | 767.4  | 786.0  | 787.8  |
| 160°   | 687.7 | 693.9 | 700.1 | 701.6 | 711.2 | 724.0 | 730.4 | 741.0  | 762.1  | 778.0  | 779.1  |
| 162.5° | 699.1 | 703.7 | 708.4 | 709.5 | 716.5 | 725.8 | 730.4 | 739.3  | 757.1  | 770.6  | 771.5  |
| 165°   | 711.5 | 715.7 | 719.9 | 720.9 | 724.1 | 728.3 | 730.4 | 736.8  | 749.6  | 759.2  | 760.2  |
| 167.5° | 722.9 | 724.9 | 726.9 | 727.4 | 730.0 | 733.5 | 735.3 | 739.5  | 747.9  | 754.2  | 754.7  |
| 170°   | 730.4 | 732.3 | 734.3 | 734.8 | 735.0 | 735.2 | 735.3 | 739.5  | 747.9  | 754.2  | 754.2  |
| 172.5° | 734.3 | 734.7 | 735.2 | 735.3 | 735.3 | 735.3 | 735.3 | 738.6  | 745.3  | 750.2  | 749.8  |
| 175°   | 739.8 | 739.8 | 739.8 | 739.8 | 738.3 | 736.3 | 735.3 | 737.4  | 741.7  | 744.8  | 744.8  |
| 177.5° | 739.8 | 739.8 | 739.8 | 739.8 | 738.7 | 737.2 | 736.4 | 738.0  | 741.3  | 743.8  | 743.3  |
| 180°   | 739.8 | 739.8 | 739.8 | 739.8 | 739.8 | 739.8 | 739.8 | 739.8  | 739.8  | 739.8  | 739.8  |



TEST NUMBER: P936949

CATALOG NUMBER: SQ4-FB-050U-125D-930-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 1267.9 | 1267.9 |
| 2.5°   | 1353.5 | 1345.3 |
| 5°     | 1740.7 | 1748.9 |
| 7.5°   | 2344.0 | 2339.9 |
| 10°    | 2914.7 | 2951.4 |
| 12.5°  | 3330.6 | 3338.7 |
| 15°    | 3583.3 | 3599.6 |
| 17.5°  | 3681.2 | 3685.2 |
| 20°    | 3685.2 | 3677.1 |
| 22.5°  | 3640.4 | 3632.2 |
| 25°    | 3587.4 | 3583.3 |
| 27.5°  | 3538.5 | 3542.6 |
| 30°    | 3518.1 | 3530.3 |
| 32.5°  | 3518.1 | 3538.5 |
| 35°    | 3526.2 | 3546.6 |
| 37.5°  | 3522.2 | 3546.6 |
| 40°    | 3505.9 | 3534.4 |
| 42.5°  | 3461.0 | 3481.4 |
| 45°    | 3391.7 | 3416.2 |
| 47.5°  | 3302.0 | 3318.3 |
| 50°    | 3187.9 | 3204.2 |
| 52.5°  | 3045.2 | 3049.3 |
| 55°    | 2874.0 | 2890.3 |
| 57.5°  | 2690.5 | 2694.6 |
| 60°    | 2486.7 | 2498.9 |
| 62.5°  | 2270.6 | 2270.6 |
| 65°    | 2042.4 | 2050.5 |
| 67.5°  | 1805.9 | 1826.3 |
| 70°    | 1565.4 | 1569.5 |
| 72.5°  | 1329.0 | 1329.0 |
| 75°    | 1084.4 | 1088.5 |
| 77.5°  | 852.0  | 852.0  |
| 80°    | 631.9  | 636.0  |
| 82.5°  | 436.2  | 444.4  |
| 85°    | 273.1  | 273.1  |
| 87.5°  | 126.4  | 114.1  |
| 90°    | 18.9   | 18.9   |
| 92.5°  | 75.6   | 60.5   |
| 95°    | 263.4  | 217.9  |
| 97.5°  | 631.2  | 544.7  |
| 100°   | 909.4  | 806.4  |
| 102.5° | 1183.1 | 1094.8 |
| 105°   | 1532.0 | 1484.6 |
| 107.5° | 1760.6 | 1772.1 |
| 110°   | 1847.7 | 1897.2 |





TEST NUMBER: P936949

CATALOG NUMBER: SQ4-FB-050U-125D-930-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 1855.6 | 1931.5 |
| 115°   | 1806.3 | 1911.6 |
| 117.5° | 1702.0 | 1818.7 |
| 120°   | 1618.0 | 1731.3 |
| 122.5° | 1536.1 | 1647.9 |
| 125°   | 1419.2 | 1522.3 |
| 127.5° | 1314.2 | 1401.2 |
| 130°   | 1252.4 | 1332.7 |
| 132.5° | 1196.1 | 1268.1 |
| 135°   | 1119.2 | 1181.2 |
| 137.5° | 1057.5 | 1108.2 |
| 140°   | 1015.1 | 1062.5 |
| 142.5° | 980.1  | 1020.9 |
| 145°   | 927.4  | 958.3  |
| 147.5° | 887.0  | 912.6  |
| 150°   | 861.5  | 882.3  |
| 152.5° | 839.9  | 855.5  |
| 155°   | 814.9  | 825.2  |
| 157.5° | 795.1  | 802.4  |
| 160°   | 783.3  | 787.5  |
| 162.5° | 775.5  | 779.6  |
| 165°   | 764.5  | 768.6  |
| 167.5° | 756.4  | 758.2  |
| 170°   | 754.2  | 754.2  |
| 172.5° | 748.3  | 746.8  |
| 175°   | 744.8  | 744.8  |
| 177.5° | 741.6  | 739.8  |
| 180°   | 739.8  | 739.8  |



TEST NUMBER: P936949  
 CATALOG NUMBER: SQ4-FB-050U-125D-930-1D-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 | 7.19             | 8.28  | 7.97  | 9.10  | 10.10 | 20.38          | 21.47 | 21.16 | 22.29 | 23.29 |
|                 | 3H   | 7.91             | 8.90  | 8.71  | 9.72  | 10.75 | 22.24          | 23.23 | 23.04 | 24.05 | 25.08 |
|                 | 4H   | 8.22             | 9.15  | 9.03  | 9.98  | 11.02 | 22.90          | 23.83 | 23.71 | 24.67 | 25.70 |
|                 | 6H   | 8.48             | 9.34  | 9.31  | 10.18 | 11.24 | 23.35          | 24.21 | 24.17 | 25.05 | 26.10 |
|                 | 8H   | 8.55             | 9.38  | 9.39  | 10.24 | 11.29 | 23.48          | 24.30 | 24.31 | 25.16 | 26.21 |
|                 | 12H  | 8.58             | 9.37  | 9.42  | 10.22 | 11.30 | 23.55          | 24.34 | 24.40 | 25.19 | 26.28 |
| 4H              | 2H   | 14.44            | 15.37 | 15.26 | 16.20 | 17.24 | 20.68          | 21.61 | 21.50 | 22.45 | 23.48 |
|                 | 3H   | 16.02            | 16.81 | 16.86 | 17.67 | 18.73 | 22.75          | 23.54 | 23.58 | 24.40 | 25.46 |
|                 | 4H   | 16.13            | 16.85 | 16.98 | 17.71 | 18.79 | 23.53          | 24.25 | 24.38 | 25.11 | 26.19 |
|                 | 6H   | 16.15            | 16.78 | 17.02 | 17.66 | 18.75 | 24.09          | 24.71 | 24.95 | 25.60 | 26.68 |
|                 | 8H   | 16.14            | 16.72 | 17.00 | 17.60 | 18.70 | 24.26          | 24.84 | 25.13 | 25.72 | 26.82 |
|                 | 12H  | 16.11            | 16.63 | 16.99 | 17.53 | 18.64 | 24.37          | 24.89 | 25.25 | 25.80 | 26.90 |
| 8H              | 4H   | 17.60            | 18.18 | 18.46 | 19.06 | 20.16 | 23.61          | 24.19 | 24.48 | 25.08 | 26.18 |
|                 | 6H   | 17.85            | 18.33 | 18.75 | 19.26 | 20.36 | 24.26          | 24.74 | 25.15 | 25.66 | 26.76 |
|                 | 8H   | 17.87            | 18.30 | 18.78 | 19.22 | 20.34 | 24.48          | 24.91 | 25.39 | 25.83 | 26.95 |
|                 | 12H  | 17.85            | 18.23 | 18.76 | 19.14 | 20.31 | 24.64          | 25.02 | 25.55 | 25.93 | 27.10 |
| 12H             | 4H   | 17.75            | 18.28 | 18.64 | 19.18 | 20.29 | 23.58          | 24.10 | 24.46 | 25.00 | 26.11 |
|                 | 6H   | 18.11            | 18.54 | 19.02 | 19.46 | 20.58 | 24.24          | 24.67 | 25.15 | 25.59 | 26.71 |
|                 | 8H   | 18.20            | 18.57 | 19.10 | 19.48 | 20.65 | 24.49          | 24.87 | 25.40 | 25.78 | 26.94 |