

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: P937578

Luminaire Tested: SQ4-FB-100U-075D-B2750-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

**Test Information**

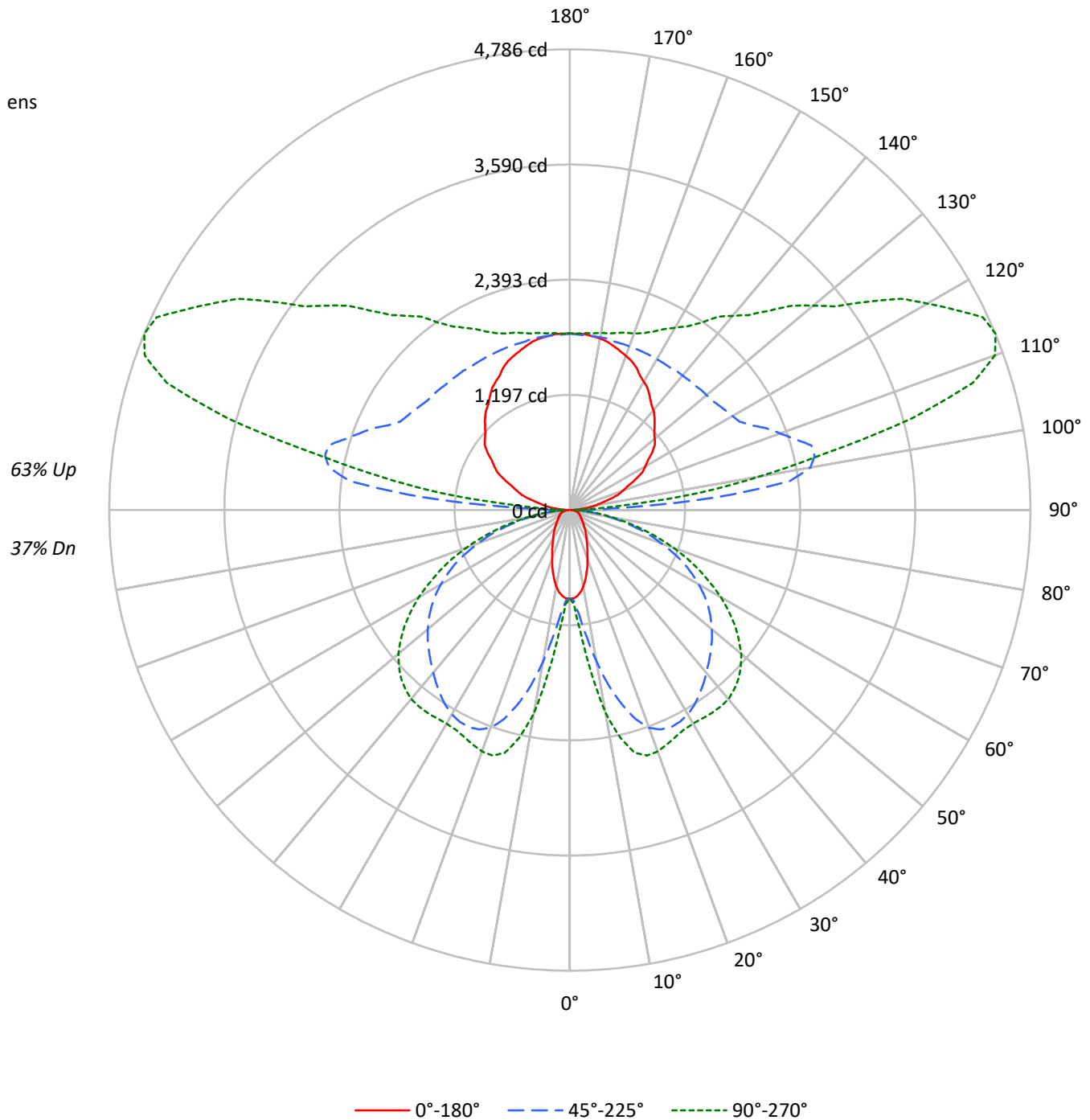
Test Method: LM-79-2019  
Report Number: P937578  
REPORT IS A COMBINATION OF REPORTS P933558 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-100U-075D-B2750-1D-UNV-STD-W-12-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19008.1 lumens  
Efficiency: N/A  
Efficacy: 128.8 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): 147.6  
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: P937578  
CATALOG NUMBER: SQ4-FB-100U-075D-B2750-1D-UNV-STD-W-12-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P937578

CATALOG NUMBER: SQ4-FB-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 60 | 60 | 60 | 45 | 45 | 45 | 37 |    |    | 37 |
| 1   | 95  | 90  | 86  | 83  | 86 | 82 | 78 | 75 | 66 | 64 | 62 | 52 | 50 | 49 | 39 | 38 | 37 | 31 |    |    | 31 |
| 2   | 86  | 78  | 72  | 67  | 77 | 71 | 66 | 61 | 58 | 54 | 50 | 45 | 42 | 40 | 34 | 32 | 30 | 25 |    |    | 25 |
| 3   | 78  | 68  | 61  | 55  | 70 | 62 | 56 | 50 | 50 | 46 | 42 | 39 | 36 | 33 | 29 | 27 | 25 | 21 |    |    | 21 |
| 4   | 71  | 60  | 52  | 46  | 64 | 55 | 48 | 42 | 44 | 39 | 35 | 35 | 31 | 28 | 26 | 23 | 21 | 17 |    |    | 17 |
| 5   | 65  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 39 | 34 | 30 | 31 | 27 | 24 | 23 | 20 | 18 | 15 |    |    | 15 |
| 6   | 60  | 47  | 39  | 33  | 54 | 43 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 21 | 21 | 18 | 16 | 13 |    |    | 13 |
| 7   | 55  | 42  | 34  | 29  | 49 | 39 | 32 | 27 | 32 | 26 | 22 | 25 | 21 | 18 | 19 | 16 | 14 | 11 |    |    | 11 |
| 8   | 51  | 38  | 31  | 25  | 46 | 35 | 28 | 23 | 29 | 23 | 20 | 23 | 19 | 16 | 17 | 14 | 12 | 10 |    |    | 10 |
| 9   | 47  | 35  | 27  | 22  | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 21 | 17 | 14 | 16 | 13 | 11 | 9  |    |    | 9  |
| 10  | 44  | 32  | 24  | 20  | 40 | 29 | 23 | 18 | 24 | 19 | 15 | 19 | 15 | 12 | 14 | 12 | 10 | 8  |    |    | 8  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2845 | 2845 | 2845 |
| 5°  | 2781 | 3289 | 3825 |
| 10° | 2523 | 4797 | 6341 |
| 15° | 2145 | 6268 | 7657 |
| 20° | 1747 | 7265 | 7803 |
| 25° | 1458 | 7605 | 7645 |
| 30° | 1230 | 7655 | 7630 |
| 35° | 1088 | 7530 | 7828 |
| 40° | 949  | 7367 | 8032 |
| 45° | 860  | 7248 | 8063 |
| 50° | 789  | 7142 | 7930 |
| 55° | 757  | 6985 | 7578 |
| 60° | 776  | 6681 | 7023 |
| 65° | 808  | 6218 | 6261 |
| 70° | 863  | 5426 | 5289 |
| 75° | 960  | 4428 | 4127 |
| 80° | 1056 | 3075 | 2781 |
| 85° | 959  | 1634 | 1423 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8063 cd/sqm



TEST NUMBER: P937578

CATALOG NUMBER: SQ4-FB-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 119.0   | 0.6       |
| 10°-20°   | 527.4   | 2.8       |
| 20°-30°   | 922.5   | 4.9       |
| 30°-40°   | 1187.6  | 6.2       |
| 40°-50°   | 1326.5  | 7.0       |
| 50°-60°   | 1270.5  | 6.7       |
| 60°-70°   | 1006.9  | 5.3       |
| 70°-80°   | 592.0   | 3.1       |
| 80°-90°   | 171.5   | 0.9       |
| 90°-100°  | 893.6   | 4.7       |
| 100°-110° | 2349.4  | 12.4      |
| 110°-120° | 2436.0  | 12.8      |
| 120°-130° | 1954.0  | 10.3      |
| 130°-140° | 1533.2  | 8.1       |
| 140°-150° | 1176.8  | 6.2       |
| 150°-160° | 847.5   | 4.5       |
| 160°-170° | 518.5   | 2.7       |
| 170°-180° | 175.2   | 0.9       |
| 0°-30°    | 1569.0  | 8.3       |
| 0°-40°    | 2756.6  | 14.5      |
| 0°-60°    | 5353.6  | 28.2      |
| 0°-90°    | 7123.9  | 37.5      |
| 90°-120°  | 5679.0  | 29.9      |
| 90°-150°  | 10343.0 | 54.4      |
| 90°-180°  | 11884.0 | 62.5      |
| 0°-180°   | 19008.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 920  | 920   | 920  | 920   | 920  |      |
| 5°   | 896  | 961   | 1083 | 1225  | 1269 | 83   |
| 15°  | 672  | 1240  | 2088 | 2532  | 2612 | 187  |
| 25°  | 429  | 1405  | 2488 | 2597  | 2600 | 198  |
| 35°  | 290  | 1343  | 2343 | 2476  | 2574 | 181  |
| 45°  | 198  | 1071  | 2071 | 2372  | 2479 | 153  |
| 55°  | 142  | 680   | 1757 | 2041  | 2097 | 129  |
| 65°  | 112  | 361   | 1305 | 1467  | 1488 | 111  |
| 75°  | 83   | 222   | 716  | 787   | 790  | 87   |
| 85°  | 30   | 68    | 178  | 195   | 198  | 31   |
| 90°  | 12   | 34    | 94   | 47    | 47   | 12   |
| 95°  | 118  | 463   | 1539 | 794   | 540  | 131  |
| 105° | 423  | 641   | 2597 | 3943  | 3679 | 449  |
| 115° | 752  | 913   | 2081 | 4150  | 4737 | 742  |
| 125° | 1046 | 1173  | 1892 | 3198  | 3772 | 929  |
| 135° | 1246 | 1372  | 1833 | 2581  | 2927 | 964  |
| 145° | 1446 | 1538  | 1810 | 2202  | 2375 | 906  |
| 155° | 1634 | 1680  | 1810 | 1987  | 2045 | 751  |
| 165° | 1763 | 1786  | 1810 | 1881  | 1905 | 498  |
| 175° | 1833 | 1833  | 1822 | 1846  | 1846 | 174  |
| 180° | 1833 | 1833  | 1833 | 1833  | 1833 |      |



TEST NUMBER: P937578

CATALOG NUMBER: SQ4-FB-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 919.9 | 919.9 | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  | 919.9  |
| 2.5°   | 919.9 | 919.9 | 925.9  | 928.8  | 934.7  | 937.7  | 943.6  | 949.5  | 967.3  | 970.2  | 976.1  |
| 5°     | 896.3 | 908.1 | 946.6  | 961.4  | 1002.8 | 1059.0 | 1082.6 | 1121.2 | 1201.0 | 1224.7 | 1239.5 |
| 7.5°   | 860.8 | 887.4 | 982.1  | 1005.7 | 1109.2 | 1257.2 | 1319.4 | 1402.2 | 1529.4 | 1591.5 | 1641.8 |
| 10°    | 804.6 | 860.8 | 1029.4 | 1085.6 | 1254.3 | 1479.1 | 1594.5 | 1709.8 | 1902.1 | 1987.9 | 2020.4 |
| 12.5°  | 742.5 | 834.2 | 1079.7 | 1156.7 | 1399.2 | 1727.6 | 1866.6 | 1993.8 | 2212.7 | 2328.0 | 2345.8 |
| 15°    | 671.5 | 795.7 | 1127.1 | 1239.5 | 1553.0 | 1934.6 | 2088.4 | 2245.2 | 2449.3 | 2532.1 | 2552.9 |
| 17.5°  | 609.3 | 766.1 | 1171.5 | 1289.8 | 1671.4 | 2121.0 | 2277.8 | 2407.9 | 2573.6 | 2629.8 | 2644.6 |
| 20°    | 532.4 | 718.8 | 1201.0 | 1354.9 | 1795.6 | 2257.1 | 2407.9 | 2508.5 | 2620.9 | 2656.4 | 2662.3 |
| 22.5°  | 476.2 | 668.5 | 1218.8 | 1378.5 | 1878.4 | 2339.9 | 2467.1 | 2546.9 | 2623.8 | 2635.7 | 2638.6 |
| 25°    | 428.9 | 612.3 | 1215.8 | 1405.1 | 1949.4 | 2390.2 | 2487.8 | 2546.9 | 2591.3 | 2597.2 | 2597.2 |
| 27.5°  | 384.5 | 550.2 | 1204.0 | 1411.1 | 2002.7 | 2402.0 | 2478.9 | 2520.3 | 2541.0 | 2552.9 | 2552.9 |
| 30°    | 346.1 | 491.0 | 1174.4 | 1399.2 | 2026.3 | 2390.2 | 2452.3 | 2473.0 | 2493.7 | 2511.4 | 2520.3 |
| 32.5°  | 316.5 | 434.8 | 1130.1 | 1375.6 | 2029.3 | 2360.6 | 2405.0 | 2416.8 | 2446.4 | 2487.8 | 2502.6 |
| 35°    | 289.9 | 378.6 | 1079.7 | 1343.0 | 2011.5 | 2313.3 | 2342.8 | 2354.7 | 2413.8 | 2475.9 | 2496.7 |
| 37.5°  | 263.3 | 337.2 | 1014.6 | 1286.8 | 1984.9 | 2257.1 | 2277.8 | 2298.5 | 2390.2 | 2464.1 | 2487.8 |
| 40°    | 236.6 | 301.7 | 937.7  | 1224.7 | 1943.5 | 2189.0 | 2206.8 | 2239.3 | 2360.6 | 2446.4 | 2470.0 |
| 42.5°  | 215.9 | 272.1 | 854.9  | 1159.6 | 1890.3 | 2112.1 | 2138.7 | 2186.1 | 2325.1 | 2416.8 | 2443.4 |
| 45°    | 198.2 | 242.6 | 766.1  | 1070.8 | 1822.2 | 2032.2 | 2070.7 | 2135.8 | 2283.7 | 2372.4 | 2396.1 |
| 47.5°  | 180.4 | 221.8 | 674.4  | 979.1  | 1748.3 | 1952.4 | 2002.7 | 2076.6 | 2227.5 | 2313.3 | 2334.0 |
| 50°    | 165.6 | 201.1 | 582.7  | 881.5  | 1668.4 | 1866.6 | 1925.8 | 2002.7 | 2156.5 | 2236.3 | 2263.0 |
| 52.5°  | 153.8 | 183.4 | 496.9  | 783.9  | 1576.7 | 1777.9 | 1845.9 | 1925.8 | 2070.7 | 2147.6 | 2165.4 |
| 55°    | 142.0 | 168.6 | 423.0  | 680.3  | 1482.1 | 1683.2 | 1757.2 | 1834.1 | 1976.0 | 2041.1 | 2053.0 |
| 57.5°  | 136.1 | 156.8 | 360.9  | 582.7  | 1381.5 | 1576.7 | 1659.5 | 1730.5 | 1863.6 | 1913.9 | 1925.8 |
| 60°    | 127.2 | 147.9 | 313.5  | 499.9  | 1272.0 | 1476.1 | 1547.1 | 1618.1 | 1730.5 | 1771.9 | 1780.8 |
| 62.5°  | 118.3 | 142.0 | 278.1  | 420.0  | 1159.6 | 1357.8 | 1428.8 | 1493.9 | 1588.5 | 1618.1 | 1630.0 |
| 65°    | 112.4 | 136.1 | 251.4  | 360.9  | 1044.2 | 1233.6 | 1304.6 | 1360.8 | 1437.7 | 1467.3 | 1473.2 |
| 67.5°  | 106.5 | 130.2 | 230.7  | 310.6  | 928.8  | 1109.2 | 1162.6 | 1215.8 | 1275.0 | 1304.6 | 1307.5 |
| 70°    | 97.6  | 124.2 | 213.0  | 275.1  | 810.5  | 967.3  | 1011.6 | 1067.8 | 1115.2 | 1130.1 | 1138.9 |
| 72.5°  | 91.7  | 115.4 | 201.1  | 248.5  | 689.2  | 831.2  | 872.6  | 905.1  | 946.6  | 961.4  | 961.4  |
| 75°    | 82.8  | 103.5 | 189.3  | 221.8  | 565.0  | 680.3  | 715.8  | 748.4  | 780.9  | 786.8  | 778.0  |
| 77.5°  | 74.0  | 91.7  | 162.7  | 186.4  | 440.7  | 538.4  | 567.9  | 585.7  | 612.3  | 618.2  | 621.2  |
| 80°    | 62.1  | 79.9  | 127.2  | 144.9  | 319.5  | 396.4  | 417.1  | 431.9  | 455.5  | 455.5  | 461.4  |
| 82.5°  | 47.3  | 62.1  | 91.7   | 103.5  | 215.9  | 272.1  | 289.9  | 298.8  | 313.5  | 313.5  | 313.5  |
| 85°    | 29.6  | 38.5  | 59.2   | 68.0   | 130.2  | 165.6  | 177.5  | 180.4  | 192.3  | 195.2  | 195.2  |
| 87.5°  | 14.8  | 20.7  | 38.5   | 41.4   | 68.0   | 85.8   | 85.8   | 91.7   | 91.7   | 88.7   | 85.8   |
| 90°    | 12.3  | 22.2  | 31.9   | 34.4   | 54.1   | 80.4   | 93.5   | 83.1   | 62.3   | 46.7   | 46.7   |
| 92.5°  | 49.2  | 132.8 | 216.5  | 237.4  | 333.9  | 462.3  | 526.6  | 461.5  | 331.4  | 233.8  | 224.5  |
| 95°    | 118.1 | 271.2 | 424.4  | 462.6  | 821.4  | 1299.9 | 1539.1 | 1373.5 | 1042.1 | 793.5  | 765.3  |
| 97.5°  | 204.2 | 339.3 | 474.4  | 508.2  | 1106.5 | 1904.3 | 2303.2 | 2198.5 | 1989.1 | 1832.0 | 1778.4 |
| 100°   | 270.7 | 393.1 | 515.6  | 546.2  | 1210.2 | 2095.5 | 2538.3 | 2546.0 | 2561.2 | 2572.7 | 2508.9 |
| 102.5° | 327.3 | 441.5 | 555.8  | 584.4  | 1257.8 | 2155.8 | 2604.7 | 2738.1 | 3004.9 | 3205.1 | 3150.4 |
| 105°   | 423.3 | 520.0 | 616.8  | 641.0  | 1293.1 | 2162.6 | 2597.3 | 2896.5 | 3494.7 | 3943.3 | 3913.9 |
| 107.5° | 521.7 | 611.9 | 702.1  | 724.7  | 1299.6 | 2066.3 | 2449.6 | 2866.9 | 3701.3 | 4327.2 | 4334.3 |
| 110°   | 588.1 | 669.6 | 751.0  | 771.4  | 1289.8 | 1981.0 | 2326.6 | 2793.0 | 3725.9 | 4425.6 | 4456.2 |



TEST NUMBER: P937578

CATALOG NUMBER: SQ4-FB-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 653.3  | 731.0  | 808.6  | 828.0  | 1290.3 | 1906.5 | 2214.7 | 2692.1 | 3646.8 | 4362.9 | 4409.9 |
| 115°   | 751.7  | 823.4  | 895.0  | 912.9  | 1302.1 | 1821.0 | 2080.6 | 2540.4 | 3460.2 | 4150.0 | 4215.2 |
| 117.5° | 848.9  | 914.0  | 979.1  | 995.4  | 1326.4 | 1767.6 | 1988.3 | 2403.3 | 3233.4 | 3856.0 | 3928.2 |
| 120°   | 905.5  | 966.8  | 1028.1 | 1043.4 | 1346.1 | 1749.7 | 1951.4 | 2330.6 | 3089.0 | 3657.9 | 3728.2 |
| 122.5° | 961.0  | 1022.8 | 1084.5 | 1100.0 | 1374.4 | 1740.2 | 1923.1 | 2264.5 | 2947.5 | 3459.8 | 3529.1 |
| 125°   | 1045.9 | 1102.2 | 1158.5 | 1172.6 | 1412.4 | 1732.4 | 1892.3 | 2182.4 | 2762.6 | 3197.7 | 3261.5 |
| 127.5° | 1114.7 | 1171.6 | 1228.5 | 1242.7 | 1450.6 | 1727.9 | 1866.5 | 2115.6 | 2613.7 | 2987.3 | 3041.1 |
| 130°   | 1151.6 | 1212.9 | 1274.1 | 1289.4 | 1478.5 | 1730.6 | 1856.6 | 2078.4 | 2521.9 | 2854.5 | 2904.3 |
| 132.5° | 1189.8 | 1251.0 | 1312.3 | 1327.6 | 1501.0 | 1732.3 | 1848.0 | 2046.4 | 2443.5 | 2741.3 | 2785.8 |
| 135°   | 1246.4 | 1302.1 | 1357.9 | 1371.8 | 1525.6 | 1730.7 | 1833.3 | 1999.5 | 2331.9 | 2581.2 | 2619.7 |
| 137.5° | 1304.2 | 1359.4 | 1414.6 | 1428.4 | 1562.5 | 1741.4 | 1830.8 | 1971.3 | 2252.4 | 2463.2 | 2494.7 |
| 140°   | 1352.2 | 1403.1 | 1453.9 | 1466.6 | 1585.1 | 1743.1 | 1822.1 | 1943.5 | 2186.4 | 2368.5 | 2397.9 |
| 142.5° | 1389.1 | 1436.1 | 1483.1 | 1494.9 | 1603.9 | 1749.4 | 1822.1 | 1928.8 | 2142.1 | 2302.0 | 2327.3 |
| 145°   | 1445.7 | 1486.7 | 1527.7 | 1538.0 | 1628.6 | 1749.5 | 1809.9 | 1897.1 | 2071.5 | 2202.3 | 2221.5 |
| 147.5° | 1502.3 | 1542.2 | 1582.1 | 1592.1 | 1664.7 | 1761.5 | 1809.9 | 1878.5 | 2015.8 | 2118.7 | 2134.6 |
| 150°   | 1539.1 | 1575.2 | 1611.3 | 1620.4 | 1683.6 | 1767.8 | 1809.9 | 1867.9 | 1983.7 | 2070.7 | 2083.5 |
| 152.5° | 1577.3 | 1604.6 | 1632.0 | 1638.8 | 1695.8 | 1771.8 | 1809.9 | 1859.4 | 1958.3 | 2032.5 | 2042.2 |
| 155°   | 1633.9 | 1654.1 | 1674.4 | 1679.5 | 1722.9 | 1780.9 | 1809.9 | 1849.2 | 1927.9 | 1987.0 | 1993.4 |
| 157.5° | 1675.7 | 1695.4 | 1715.1 | 1720.1 | 1750.1 | 1790.0 | 1809.9 | 1840.5 | 1901.7 | 1947.6 | 1952.2 |
| 160°   | 1704.0 | 1719.4 | 1734.7 | 1738.5 | 1762.3 | 1794.0 | 1809.9 | 1836.1 | 1888.6 | 1927.9 | 1930.5 |
| 162.5° | 1732.3 | 1743.7 | 1755.3 | 1758.1 | 1775.4 | 1798.4 | 1809.9 | 1832.0 | 1876.3 | 1909.5 | 1912.0 |
| 165°   | 1763.1 | 1773.4 | 1783.9 | 1786.4 | 1794.2 | 1804.7 | 1809.9 | 1825.8 | 1857.4 | 1881.2 | 1883.8 |
| 167.5° | 1791.4 | 1796.3 | 1801.2 | 1802.5 | 1809.0 | 1817.8 | 1822.1 | 1832.6 | 1853.4 | 1869.0 | 1870.0 |
| 170°   | 1809.9 | 1814.8 | 1819.8 | 1820.9 | 1821.3 | 1821.8 | 1822.1 | 1832.6 | 1853.4 | 1869.0 | 1869.0 |
| 172.5° | 1819.7 | 1820.7 | 1821.8 | 1822.1 | 1822.1 | 1822.1 | 1822.1 | 1830.3 | 1846.8 | 1859.1 | 1858.1 |
| 175°   | 1833.3 | 1833.3 | 1833.3 | 1833.3 | 1829.5 | 1824.6 | 1822.1 | 1827.4 | 1837.7 | 1845.5 | 1845.5 |
| 177.5° | 1833.3 | 1833.3 | 1833.3 | 1833.3 | 1830.4 | 1826.6 | 1824.6 | 1828.7 | 1836.9 | 1843.0 | 1841.9 |
| 180°   | 1833.3 | 1833.3 | 1833.3 | 1833.3 | 1833.3 | 1833.3 | 1833.3 | 1833.3 | 1833.3 | 1833.3 | 1833.3 |



TEST NUMBER: P937578

CATALOG NUMBER: SQ4-FB-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 919.9  | 919.9  |
| 2.5°   | 982.1  | 976.1  |
| 5°     | 1263.2 | 1269.1 |
| 7.5°   | 1700.9 | 1698.0 |
| 10°    | 2115.1 | 2141.7 |
| 12.5°  | 2416.8 | 2422.7 |
| 15°    | 2600.2 | 2612.0 |
| 17.5°  | 2671.2 | 2674.1 |
| 20°    | 2674.1 | 2668.2 |
| 22.5°  | 2641.6 | 2635.7 |
| 25°    | 2603.1 | 2600.2 |
| 27.5°  | 2567.6 | 2570.6 |
| 30°    | 2552.9 | 2561.7 |
| 32.5°  | 2552.9 | 2567.6 |
| 35°    | 2558.8 | 2573.6 |
| 37.5°  | 2555.8 | 2573.6 |
| 40°    | 2544.0 | 2564.7 |
| 42.5°  | 2511.4 | 2526.2 |
| 45°    | 2461.2 | 2478.9 |
| 47.5°  | 2396.1 | 2407.9 |
| 50°    | 2313.3 | 2325.1 |
| 52.5°  | 2209.7 | 2212.7 |
| 55°    | 2085.5 | 2097.3 |
| 57.5°  | 1952.4 | 1955.3 |
| 60°    | 1804.5 | 1813.4 |
| 62.5°  | 1647.7 | 1647.7 |
| 65°    | 1482.1 | 1488.0 |
| 67.5°  | 1310.5 | 1325.3 |
| 70°    | 1136.0 | 1138.9 |
| 72.5°  | 964.3  | 964.3  |
| 75°    | 786.8  | 789.8  |
| 77.5°  | 618.2  | 618.2  |
| 80°    | 458.5  | 461.4  |
| 82.5°  | 316.5  | 322.4  |
| 85°    | 198.2  | 198.2  |
| 87.5°  | 91.7   | 82.8   |
| 90°    | 46.7   | 46.7   |
| 92.5°  | 187.2  | 150.1  |
| 95°    | 652.7  | 540.1  |
| 97.5°  | 1564.1 | 1349.7 |
| 100°   | 2253.5 | 1998.1 |
| 102.5° | 2931.7 | 2713.0 |
| 105°   | 3796.3 | 3678.8 |
| 107.5° | 4362.8 | 4391.2 |
| 110°   | 4578.7 | 4701.2 |





TEST NUMBER: P937578

CATALOG NUMBER: SQ4-FB-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 4598.0 | 4786.1 |
| 115°   | 4476.0 | 4736.8 |
| 117.5° | 4217.5 | 4506.8 |
| 120°   | 4009.2 | 4290.3 |
| 122.5° | 3806.3 | 4083.5 |
| 125°   | 3516.9 | 3772.2 |
| 127.5° | 3256.7 | 3472.1 |
| 130°   | 3103.2 | 3302.3 |
| 132.5° | 2964.1 | 3142.4 |
| 135°   | 2773.3 | 2927.0 |
| 137.5° | 2620.4 | 2746.2 |
| 140°   | 2515.5 | 2633.0 |
| 142.5° | 2428.4 | 2529.6 |
| 145°   | 2298.1 | 2374.6 |
| 147.5° | 2198.0 | 2261.4 |
| 150°   | 2135.0 | 2186.4 |
| 152.5° | 2081.1 | 2119.9 |
| 155°   | 2019.1 | 2044.9 |
| 157.5° | 1970.2 | 1988.3 |
| 160°   | 1940.9 | 1951.4 |
| 162.5° | 1921.8 | 1931.7 |
| 165°   | 1894.2 | 1904.6 |
| 167.5° | 1874.4 | 1878.7 |
| 170°   | 1869.0 | 1869.0 |
| 172.5° | 1854.3 | 1850.4 |
| 175°   | 1845.5 | 1845.5 |
| 177.5° | 1837.6 | 1833.3 |
| 180°   | 1833.3 | 1833.3 |



TEST NUMBER: P937578  
 CATALOG NUMBER: SQ4-FB-100U-075D-B2750-1D-UNV-STD-W-12-3000K

**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 | 3.38             | 4.16  | 4.43  | 5.22  | 6.66  | 16.57          | 17.35 | 17.62 | 18.41 | 19.85 |
|                 | 3H   | 4.08             | 4.78  | 5.14  | 5.85  | 7.30  | 18.41          | 19.11 | 19.47 | 20.18 | 21.64 |
|                 | 4H   | 4.37             | 5.04  | 5.44  | 6.11  | 7.57  | 19.05          | 19.72 | 20.12 | 20.79 | 22.25 |
|                 | 6H   | 4.62             | 5.23  | 5.70  | 6.31  | 7.78  | 19.48          | 20.10 | 20.56 | 21.17 | 22.65 |
|                 | 8H   | 4.68             | 5.27  | 5.77  | 6.36  | 7.83  | 19.60          | 20.19 | 20.69 | 21.28 | 22.75 |
|                 | 12H  | 4.70             | 5.26  | 5.79  | 6.34  | 7.83  | 19.67          | 20.23 | 20.76 | 21.31 | 22.81 |
| 4H              | 2H   | 10.59            | 11.26 | 11.67 | 12.33 | 13.79 | 16.83          | 17.50 | 17.91 | 18.57 | 20.03 |
|                 | 3H   | 12.15            | 12.71 | 13.24 | 13.81 | 15.28 | 18.88          | 19.44 | 19.96 | 20.53 | 22.01 |
|                 | 4H   | 12.24            | 12.76 | 13.33 | 13.84 | 15.34 | 19.64          | 20.16 | 20.74 | 21.25 | 22.74 |
|                 | 6H   | 12.25            | 12.69 | 13.35 | 13.80 | 15.29 | 20.18          | 20.62 | 21.28 | 21.74 | 23.22 |
|                 | 8H   | 12.22            | 12.64 | 13.32 | 13.74 | 15.24 | 20.34          | 20.76 | 21.45 | 21.86 | 23.37 |
|                 | 12H  | 12.17            | 12.55 | 13.29 | 13.67 | 15.18 | 20.44          | 20.81 | 21.56 | 21.93 | 23.44 |
| 8H              | 4H   | 13.68            | 14.10 | 14.78 | 15.20 | 16.70 | 19.70          | 20.11 | 20.80 | 21.21 | 22.72 |
|                 | 6H   | 13.92            | 14.26 | 15.04 | 15.41 | 16.91 | 20.33          | 20.67 | 21.45 | 21.81 | 23.32 |
|                 | 8H   | 13.94            | 14.24 | 15.07 | 15.36 | 16.89 | 20.55          | 20.85 | 21.68 | 21.97 | 23.50 |
|                 | 12H  | 13.90            | 14.17 | 15.04 | 15.29 | 16.85 | 20.69          | 20.96 | 21.83 | 22.08 | 23.64 |
| 12H             | 4H   | 13.82            | 14.20 | 14.94 | 15.31 | 16.82 | 19.65          | 20.02 | 20.76 | 21.14 | 22.65 |
|                 | 6H   | 14.18            | 14.48 | 15.31 | 15.61 | 17.13 | 20.31          | 20.61 | 21.44 | 21.73 | 23.26 |
|                 | 8H   | 14.25            | 14.51 | 15.38 | 15.63 | 17.19 | 20.54          | 20.80 | 21.67 | 21.92 | 23.48 |