

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: P937704

Luminaire Tested: SQ4-FB-100U-100D-B40-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

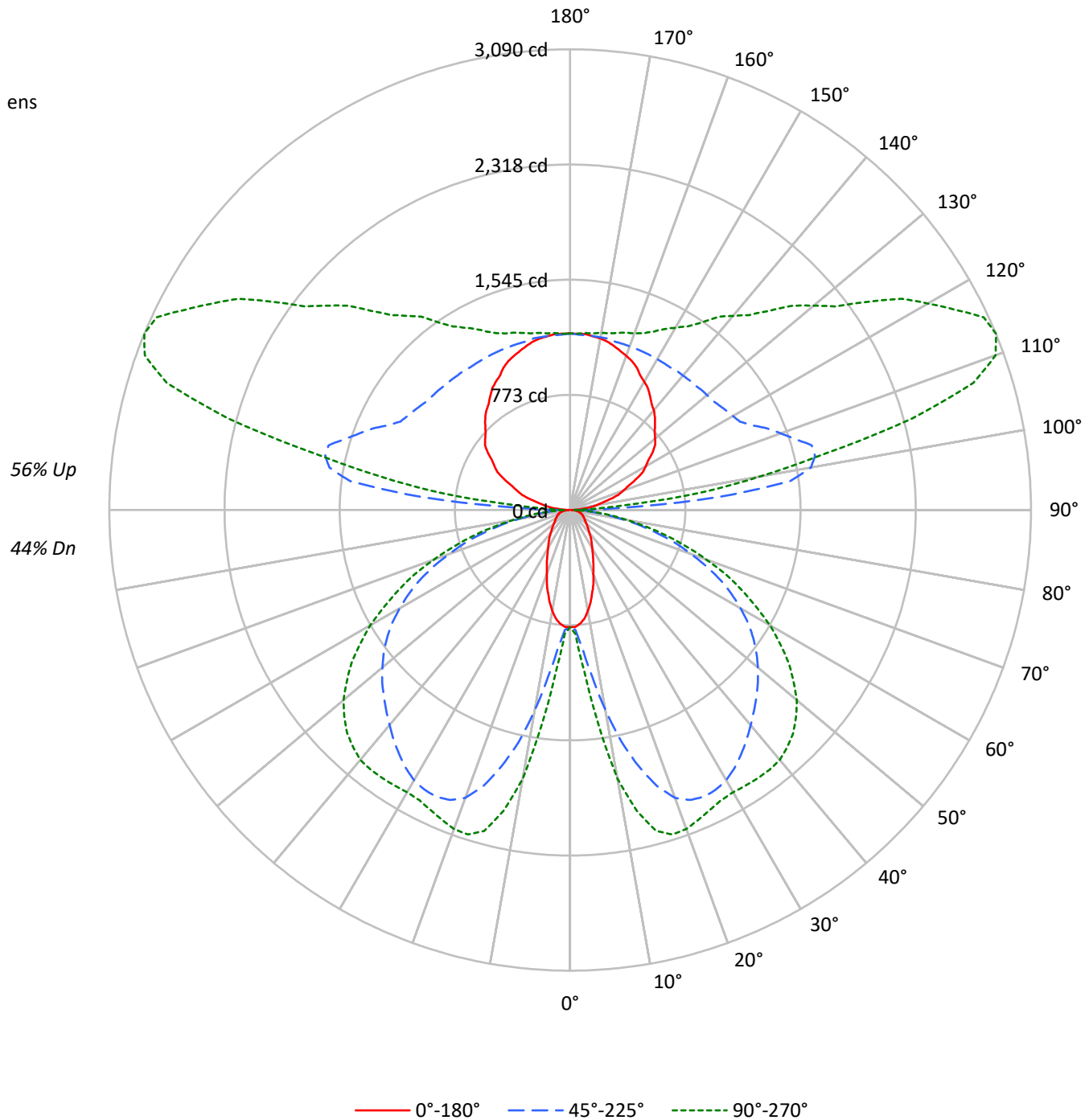
Test Method: LM-79-2019  
Report Number: P937704  
REPORT IS A COMBINATION OF REPORTS P933583 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-100U-100D-B40-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13750.1 lumens  
Efficiency: N/A  
Efficacy: 118.5 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: General Diffuse  
  
Input Watts (W): 116  
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: P937704  
CATALOG NUMBER: SQ4-FB-100U-100D-B40-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P937704  
 CATALOG NUMBER: SQ4-FB-100U-100D-B40-1D-UNV-STD-W-8

**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 | 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 | 44 |    |    |    |    | 44 |    |    |    |    |    |   |  |  |  |  |
|     | 1  | 96  | 91  | 87  | 84  | 88 | 84 | 80 | 77 | 69 | 67 | 65 | 56 | 55 | 53 | 44 | 43 | 42 | 36 |    |    |    |    | 36 |    |    |    |    |    |   |  |  |  |  |
|     | 2  | 87  | 79  | 73  | 68  | 79 | 73 | 67 | 63 | 60 | 56 | 53 | 49 | 46 | 43 | 38 | 36 | 34 | 30 |    |    |    |    | 30 |    |    |    |    |    |   |  |  |  |  |
|     | 3  | 79  | 69  | 62  | 56  | 72 | 63 | 57 | 52 | 53 | 48 | 44 | 43 | 39 | 36 | 33 | 31 | 29 | 24 |    |    |    |    | 24 |    |    |    |    |    |   |  |  |  |  |
|     | 4  | 72  | 61  | 53  | 46  | 65 | 56 | 49 | 43 | 46 | 41 | 37 | 38 | 34 | 30 | 29 | 27 | 24 | 20 |    |    |    |    | 20 |    |    |    |    |    |   |  |  |  |  |
|     | 5  | 66  | 54  | 46  | 39  | 60 | 49 | 42 | 37 | 41 | 36 | 31 | 33 | 29 | 26 | 26 | 23 | 21 | 17 |    |    |    |    | 17 |    |    |    |    |    |   |  |  |  |  |
|     | 6  | 60  | 48  | 40  | 34  | 55 | 44 | 37 | 31 | 37 | 31 | 27 | 30 | 26 | 22 | 24 | 20 | 18 | 15 |    |    |    |    | 15 |    |    |    |    |    |   |  |  |  |  |
|     | 7  | 56  | 43  | 35  | 29  | 51 | 40 | 32 | 27 | 33 | 27 | 23 | 27 | 23 | 19 | 21 | 18 | 16 | 13 |    |    |    |    | 13 |    |    |    |    |    |   |  |  |  |  |
|     | 8  | 51  | 39  | 31  | 26  | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 25 | 20 | 17 | 19 | 16 | 14 | 11 |    |    |    |    | 11 |    |    |    |    |    |   |  |  |  |  |
|     | 9  | 48  | 35  | 28  | 23  | 44 | 33 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 15 | 12 | 10 |    |    |    |    | 10 |    |    |    |    |    |   |  |  |  |  |
|     | 10 | 44  | 32  | 25  | 20  | 41 | 30 | 23 | 19 | 25 | 20 | 16 | 21 | 16 | 14 | 16 | 13 | 11 | 9  |    |    |    |    | 9  |    |    |    |    |    |   |  |  |  |  |

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

|     | 0°   | 45°  | 90°   |
|-----|------|------|-------|
| 0°  | 3642 | 3642 | 3642  |
| 5°  | 3558 | 4209 | 4895  |
| 10° | 3227 | 6135 | 8115  |
| 15° | 2743 | 8015 | 9799  |
| 20° | 2233 | 9289 | 9986  |
| 25° | 1863 | 9720 | 9783  |
| 30° | 1571 | 9782 | 9765  |
| 35° | 1389 | 9619 | 10017 |
| 40° | 1210 | 9408 | 10278 |
| 45° | 1096 | 9254 | 10319 |
| 50° | 1005 | 9115 | 10147 |
| 55° | 962  | 8911 | 9698  |
| 60° | 985  | 8519 | 8988  |
| 65° | 1025 | 7925 | 8012  |
| 70° | 1092 | 6911 | 6768  |
| 75° | 1211 | 5634 | 5282  |
| 80° | 1322 | 3907 | 3559  |
| 85° | 1174 | 2074 | 1822  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10319 cd/sqm



TEST NUMBER: P937704

CATALOG NUMBER: SQ4-FB-100U-100D-B40-1D-UNV-STD-W-8

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 101.5   | 0.7       |
| 10°-20°   | 450.0   | 3.3       |
| 20°-30°   | 787.1   | 5.7       |
| 30°-40°   | 1013.2  | 7.4       |
| 40°-50°   | 1131.7  | 8.2       |
| 50°-60°   | 1083.9  | 7.9       |
| 60°-70°   | 859.0   | 6.2       |
| 70°-80°   | 505.1   | 3.7       |
| 80°-90°   | 144.9   | 1.1       |
| 90°-100°  | 577.0   | 4.2       |
| 100°-110° | 1517.0  | 11.0      |
| 110°-120° | 1573.0  | 11.4      |
| 120°-130° | 1261.7  | 9.2       |
| 130°-140° | 990.0   | 7.2       |
| 140°-150° | 759.9   | 5.5       |
| 150°-160° | 547.2   | 4.0       |
| 160°-170° | 334.8   | 2.4       |
| 170°-180° | 113.1   | 0.8       |
| 0°-30°    | 1338.6  | 9.7       |
| 0°-40°    | 2351.8  | 17.1      |
| 0°-60°    | 4567.4  | 33.2      |
| 0°-90°    | 6076.4  | 44.2      |
| 90°-120°  | 3667.0  | 26.7      |
| 90°-150°  | 6678.5  | 48.6      |
| 90°-180°  | 7674.0  | 55.8      |
| 0°-180°   | 13750.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 785  | 785   | 785  | 785   | 785  |      |
| 5°   | 765  | 820   | 924  | 1045  | 1083 | 71   |
| 15°  | 573  | 1058  | 1782 | 2160  | 2228 | 159  |
| 25°  | 366  | 1199  | 2122 | 2216  | 2218 | 169  |
| 35°  | 247  | 1146  | 1999 | 2112  | 2196 | 154  |
| 45°  | 169  | 914   | 1767 | 2024  | 2115 | 131  |
| 55°  | 121  | 580   | 1499 | 1741  | 1789 | 110  |
| 65°  | 96   | 308   | 1113 | 1252  | 1270 | 95   |
| 75°  | 71   | 189   | 611  | 671   | 674  | 74   |
| 85°  | 25   | 58    | 152  | 167   | 169  | 27   |
| 90°  | 8    | 22    | 60   | 30    | 30   | 8    |
| 95°  | 76   | 299   | 994  | 512   | 349  | 85   |
| 105° | 273  | 414   | 1677 | 2546  | 2375 | 290  |
| 115° | 485  | 590   | 1343 | 2680  | 3059 | 479  |
| 125° | 675  | 757   | 1222 | 2065  | 2436 | 600  |
| 135° | 805  | 886   | 1184 | 1667  | 1890 | 623  |
| 145° | 934  | 993   | 1169 | 1422  | 1533 | 585  |
| 155° | 1055 | 1084  | 1169 | 1283  | 1320 | 485  |
| 165° | 1138 | 1154  | 1169 | 1215  | 1230 | 321  |
| 175° | 1184 | 1184  | 1177 | 1192  | 1192 | 112  |
| 180° | 1184 | 1184  | 1184 | 1184  | 1184 |      |



TEST NUMBER: P937704

CATALOG NUMBER: SQ4-FB-100U-100D-B40-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 784.9 | 784.9 | 784.9  | 784.9  | 784.9  | 784.9  | 784.9  | 784.9  | 784.9  | 784.9  | 784.9  |
| 2.5°   | 784.9 | 784.9 | 790.0  | 792.5  | 797.5  | 800.0  | 805.1  | 810.1  | 825.3  | 827.8  | 832.9  |
| 5°     | 764.7 | 774.8 | 807.6  | 820.2  | 855.6  | 903.5  | 923.7  | 956.5  | 1024.6 | 1044.9 | 1057.5 |
| 7.5°   | 734.4 | 757.1 | 837.9  | 858.1  | 946.4  | 1072.6 | 1125.6 | 1196.2 | 1304.8 | 1357.8 | 1400.7 |
| 10°    | 686.5 | 734.4 | 878.3  | 926.3  | 1070.1 | 1261.8 | 1360.3 | 1458.8 | 1622.7 | 1696.0 | 1723.7 |
| 12.5°  | 633.5 | 711.7 | 921.2  | 986.8  | 1193.8 | 1473.9 | 1592.5 | 1701.0 | 1887.7 | 1986.2 | 2001.3 |
| 15°    | 572.9 | 678.9 | 961.6  | 1057.5 | 1325.0 | 1650.5 | 1781.7 | 1915.5 | 2089.6 | 2160.3 | 2178.0 |
| 17.5°  | 519.9 | 653.7 | 999.4  | 1100.4 | 1425.9 | 1809.5 | 1943.3 | 2054.3 | 2195.6 | 2243.6 | 2256.3 |
| 20°    | 454.3 | 613.3 | 1024.6 | 1155.8 | 1531.9 | 1925.7 | 2054.3 | 2140.2 | 2236.0 | 2266.3 | 2271.4 |
| 22.5°  | 406.4 | 570.3 | 1039.8 | 1176.1 | 1602.6 | 1996.3 | 2104.8 | 2172.9 | 2238.6 | 2248.6 | 2251.2 |
| 25°    | 366.0 | 522.4 | 1037.2 | 1198.8 | 1663.1 | 2039.2 | 2122.5 | 2172.9 | 2210.8 | 2215.9 | 2215.9 |
| 27.5°  | 328.0 | 469.4 | 1027.2 | 1203.9 | 1708.6 | 2049.3 | 2114.9 | 2150.3 | 2167.9 | 2178.0 | 2178.0 |
| 30°    | 295.3 | 419.0 | 1001.9 | 1193.8 | 1728.7 | 2039.2 | 2092.2 | 2109.9 | 2127.5 | 2142.6 | 2150.3 |
| 32.5°  | 270.1 | 371.0 | 964.1  | 1173.5 | 1731.3 | 2014.0 | 2051.8 | 2061.9 | 2087.2 | 2122.5 | 2135.1 |
| 35°    | 247.3 | 323.1 | 921.2  | 1145.8 | 1716.1 | 1973.6 | 1998.8 | 2008.9 | 2059.4 | 2112.4 | 2130.0 |
| 37.5°  | 224.6 | 287.7 | 865.6  | 1097.9 | 1693.4 | 1925.7 | 1943.3 | 1961.0 | 2039.2 | 2102.2 | 2122.5 |
| 40°    | 201.9 | 257.5 | 800.0  | 1044.9 | 1658.1 | 1867.6 | 1882.7 | 1910.5 | 2014.0 | 2087.2 | 2107.3 |
| 42.5°  | 184.2 | 232.2 | 729.3  | 989.3  | 1612.7 | 1802.0 | 1824.7 | 1865.0 | 1983.6 | 2061.9 | 2084.7 |
| 45°    | 169.1 | 206.9 | 653.7  | 913.6  | 1554.6 | 1733.8 | 1766.7 | 1822.1 | 1948.3 | 2024.0 | 2044.3 |
| 47.5°  | 153.9 | 189.3 | 575.4  | 835.3  | 1491.5 | 1665.7 | 1708.6 | 1771.7 | 1900.4 | 1973.6 | 1991.3 |
| 50°    | 141.3 | 171.6 | 497.2  | 752.1  | 1423.4 | 1592.5 | 1643.0 | 1708.6 | 1839.8 | 1908.0 | 1930.6 |
| 52.5°  | 131.2 | 156.4 | 424.0  | 668.8  | 1345.1 | 1516.7 | 1574.8 | 1643.0 | 1766.7 | 1832.3 | 1847.4 |
| 55°    | 121.1 | 143.8 | 360.9  | 580.4  | 1264.4 | 1436.0 | 1499.1 | 1564.8 | 1685.9 | 1741.3 | 1751.5 |
| 57.5°  | 116.1 | 133.8 | 307.9  | 497.2  | 1178.6 | 1345.1 | 1415.8 | 1476.4 | 1590.0 | 1632.9 | 1643.0 |
| 60°    | 108.5 | 126.2 | 267.5  | 426.5  | 1085.3 | 1259.4 | 1319.9 | 1380.5 | 1476.4 | 1511.8 | 1519.3 |
| 62.5°  | 100.9 | 121.1 | 237.2  | 358.4  | 989.3  | 1158.4 | 1219.0 | 1274.5 | 1355.2 | 1380.5 | 1390.6 |
| 65°    | 95.9  | 116.1 | 214.5  | 307.9  | 890.9  | 1052.4 | 1113.0 | 1160.9 | 1226.5 | 1251.8 | 1256.9 |
| 67.5°  | 90.8  | 111.1 | 196.8  | 265.0  | 792.5  | 946.4  | 991.9  | 1037.2 | 1087.7 | 1113.0 | 1115.5 |
| 70°    | 83.3  | 106.0 | 181.7  | 234.7  | 691.5  | 825.3  | 863.1  | 911.1  | 951.5  | 964.1  | 971.6  |
| 72.5°  | 78.2  | 98.5  | 171.6  | 212.0  | 588.0  | 709.2  | 744.5  | 772.3  | 807.6  | 820.2  | 820.2  |
| 75°    | 70.7  | 88.3  | 161.5  | 189.3  | 482.1  | 580.4  | 610.7  | 638.5  | 666.3  | 671.4  | 663.7  |
| 77.5°  | 63.1  | 78.2  | 138.8  | 159.0  | 376.1  | 459.4  | 484.6  | 499.7  | 522.4  | 527.4  | 530.0  |
| 80°    | 53.0  | 68.2  | 108.5  | 123.7  | 272.6  | 338.2  | 355.8  | 368.4  | 388.7  | 388.7  | 393.7  |
| 82.5°  | 40.4  | 53.0  | 78.2   | 88.3   | 184.2  | 232.2  | 247.3  | 254.9  | 267.5  | 267.5  | 267.5  |
| 85°    | 25.2  | 32.9  | 50.5   | 58.1   | 111.1  | 141.3  | 151.5  | 153.9  | 164.1  | 166.6  | 166.6  |
| 87.5°  | 12.6  | 17.7  | 32.9   | 35.3   | 58.1   | 73.2   | 73.2   | 78.2   | 78.2   | 75.7   | 73.2   |
| 90°    | 7.9   | 14.3  | 20.6   | 22.3   | 35.0   | 51.9   | 60.4   | 53.7   | 40.2   | 30.2   | 30.2   |
| 92.5°  | 31.8  | 85.9  | 139.9  | 153.4  | 215.5  | 298.5  | 340.0  | 298.0  | 214.0  | 151.0  | 145.0  |
| 95°    | 76.3  | 175.1 | 274.0  | 298.7  | 530.4  | 839.3  | 993.9  | 886.9  | 672.9  | 512.5  | 494.3  |
| 97.5°  | 131.9 | 219.1 | 306.4  | 328.1  | 714.5  | 1229.7 | 1487.2 | 1419.6 | 1284.4 | 1183.0 | 1148.4 |
| 100°   | 174.8 | 253.8 | 333.0  | 352.8  | 781.5  | 1353.1 | 1639.0 | 1643.9 | 1653.8 | 1661.2 | 1620.0 |
| 102.5° | 211.3 | 285.1 | 358.9  | 377.3  | 812.1  | 1391.9 | 1681.9 | 1768.0 | 1940.4 | 2069.6 | 2034.2 |
| 105°   | 273.3 | 335.8 | 398.2  | 413.9  | 835.0  | 1396.4 | 1677.1 | 1870.2 | 2256.5 | 2546.2 | 2527.2 |
| 107.5° | 336.8 | 395.1 | 453.3  | 468.0  | 839.3  | 1334.2 | 1581.8 | 1851.2 | 2390.0 | 2794.0 | 2798.6 |
| 110°   | 379.7 | 432.3 | 484.9  | 498.1  | 832.9  | 1279.1 | 1502.3 | 1803.5 | 2405.8 | 2857.6 | 2877.4 |



TEST NUMBER: P937704

CATALOG NUMBER: SQ4-FB-100U-100D-B40-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 421.8  | 472.0  | 522.2  | 534.7  | 833.1  | 1231.1 | 1430.0 | 1738.3 | 2354.7 | 2817.2 | 2847.5 |
| 115°   | 485.4  | 531.6  | 578.0  | 589.5  | 840.8  | 1175.9 | 1343.4 | 1640.4 | 2234.3 | 2679.7 | 2721.8 |
| 117.5° | 548.2  | 590.2  | 632.2  | 642.7  | 856.4  | 1141.3 | 1283.8 | 1551.8 | 2087.8 | 2489.8 | 2536.5 |
| 120°   | 584.7  | 624.3  | 663.8  | 673.7  | 869.1  | 1129.8 | 1260.0 | 1504.9 | 1994.6 | 2361.9 | 2407.3 |
| 122.5° | 620.5  | 660.4  | 700.3  | 710.2  | 887.4  | 1123.6 | 1241.7 | 1462.2 | 1903.2 | 2234.0 | 2278.8 |
| 125°   | 675.3  | 711.7  | 748.1  | 757.1  | 912.0  | 1118.6 | 1221.8 | 1409.2 | 1783.8 | 2064.8 | 2106.1 |
| 127.5° | 719.8  | 756.5  | 793.2  | 802.4  | 936.7  | 1115.7 | 1205.2 | 1366.0 | 1687.7 | 1928.9 | 1963.7 |
| 130°   | 743.6  | 783.1  | 822.6  | 832.6  | 954.6  | 1117.4 | 1198.8 | 1342.0 | 1628.4 | 1843.2 | 1875.2 |
| 132.5° | 768.2  | 807.7  | 847.3  | 857.2  | 969.2  | 1118.6 | 1193.3 | 1321.4 | 1577.8 | 1770.0 | 1798.7 |
| 135°   | 804.8  | 840.8  | 876.9  | 885.9  | 985.2  | 1117.5 | 1183.7 | 1291.1 | 1505.7 | 1666.8 | 1691.6 |
| 137.5° | 842.1  | 877.7  | 913.5  | 922.3  | 1009.0 | 1124.4 | 1182.1 | 1272.8 | 1454.4 | 1590.5 | 1610.8 |
| 140°   | 873.1  | 905.9  | 938.8  | 947.0  | 1023.5 | 1125.6 | 1176.6 | 1255.0 | 1411.8 | 1529.3 | 1548.3 |
| 142.5° | 896.9  | 927.3  | 957.7  | 965.2  | 1035.7 | 1129.6 | 1176.6 | 1245.4 | 1383.1 | 1486.5 | 1502.8 |
| 145°   | 933.5  | 960.0  | 986.5  | 993.1  | 1051.6 | 1129.7 | 1168.6 | 1225.0 | 1337.6 | 1422.1 | 1434.4 |
| 147.5° | 970.0  | 995.8  | 1021.6 | 1028.1 | 1074.9 | 1137.4 | 1168.6 | 1212.9 | 1301.6 | 1368.0 | 1378.3 |
| 150°   | 993.9  | 1017.2 | 1040.5 | 1046.3 | 1087.1 | 1141.4 | 1168.6 | 1206.1 | 1280.9 | 1337.1 | 1345.4 |
| 152.5° | 1018.5 | 1036.2 | 1053.8 | 1058.2 | 1095.0 | 1144.1 | 1168.6 | 1200.6 | 1264.5 | 1312.5 | 1318.8 |
| 155°   | 1055.0 | 1068.1 | 1081.2 | 1084.4 | 1112.5 | 1149.9 | 1168.6 | 1194.0 | 1244.9 | 1283.0 | 1287.1 |
| 157.5° | 1082.0 | 1094.7 | 1107.5 | 1110.7 | 1130.0 | 1155.7 | 1168.6 | 1188.4 | 1227.9 | 1257.6 | 1260.5 |
| 160°   | 1100.4 | 1110.3 | 1120.1 | 1122.6 | 1138.0 | 1158.4 | 1168.6 | 1185.6 | 1219.5 | 1244.9 | 1246.7 |
| 162.5° | 1118.6 | 1126.0 | 1133.5 | 1135.3 | 1146.4 | 1161.2 | 1168.6 | 1183.0 | 1211.5 | 1233.0 | 1234.6 |
| 165°   | 1138.5 | 1145.1 | 1151.8 | 1153.5 | 1158.6 | 1165.3 | 1168.6 | 1178.9 | 1199.4 | 1214.8 | 1216.5 |
| 167.5° | 1156.7 | 1159.8 | 1163.1 | 1163.9 | 1168.1 | 1173.7 | 1176.6 | 1183.2 | 1196.7 | 1206.7 | 1207.4 |
| 170°   | 1168.6 | 1171.8 | 1175.0 | 1175.8 | 1176.1 | 1176.4 | 1176.6 | 1183.2 | 1196.7 | 1206.7 | 1206.7 |
| 172.5° | 1175.0 | 1175.7 | 1176.4 | 1176.6 | 1176.6 | 1176.6 | 1176.6 | 1181.9 | 1192.5 | 1200.4 | 1199.9 |
| 175°   | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1181.3 | 1178.2 | 1176.6 | 1179.9 | 1186.6 | 1191.6 | 1191.6 |
| 177.5° | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1181.9 | 1179.4 | 1178.2 | 1180.9 | 1186.1 | 1190.1 | 1189.5 |
| 180°   | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 | 1183.7 |



TEST NUMBER: P937704

CATALOG NUMBER: SQ4-FB-100U-100D-B40-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 784.9  | 784.9  |
| 2.5°   | 837.9  | 832.9  |
| 5°     | 1077.6 | 1082.7 |
| 7.5°   | 1451.1 | 1448.6 |
| 10°    | 1804.5 | 1827.2 |
| 12.5°  | 2061.9 | 2067.0 |
| 15°    | 2218.4 | 2228.5 |
| 17.5°  | 2278.9 | 2281.5 |
| 20°    | 2281.5 | 2276.4 |
| 22.5°  | 2253.7 | 2248.6 |
| 25°    | 2220.9 | 2218.4 |
| 27.5°  | 2190.6 | 2193.2 |
| 30°    | 2178.0 | 2185.6 |
| 32.5°  | 2178.0 | 2190.6 |
| 35°    | 2183.0 | 2195.6 |
| 37.5°  | 2180.6 | 2195.6 |
| 40°    | 2170.4 | 2188.1 |
| 42.5°  | 2142.6 | 2155.2 |
| 45°    | 2099.8 | 2114.9 |
| 47.5°  | 2044.3 | 2054.3 |
| 50°    | 1973.6 | 1983.6 |
| 52.5°  | 1885.3 | 1887.7 |
| 55°    | 1779.3 | 1789.4 |
| 57.5°  | 1665.7 | 1668.2 |
| 60°    | 1539.5 | 1547.1 |
| 62.5°  | 1405.8 | 1405.8 |
| 65°    | 1264.4 | 1269.5 |
| 67.5°  | 1118.0 | 1130.6 |
| 70°    | 969.1  | 971.6  |
| 72.5°  | 822.7  | 822.7  |
| 75°    | 671.4  | 673.8  |
| 77.5°  | 527.4  | 527.4  |
| 80°    | 391.2  | 393.7  |
| 82.5°  | 270.1  | 275.1  |
| 85°    | 169.1  | 169.1  |
| 87.5°  | 78.2   | 70.7   |
| 90°    | 30.2   | 30.2   |
| 92.5°  | 121.0  | 96.9   |
| 95°    | 421.5  | 348.8  |
| 97.5°  | 1009.9 | 871.5  |
| 100°   | 1455.1 | 1290.2 |
| 102.5° | 1893.0 | 1751.8 |
| 105°   | 2451.3 | 2375.4 |
| 107.5° | 2817.1 | 2835.4 |
| 110°   | 2956.5 | 3035.6 |





TEST NUMBER: P937704

CATALOG NUMBER: SQ4-FB-100U-100D-B40-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 2968.9 | 3090.4 |
| 115°   | 2890.2 | 3058.7 |
| 117.5° | 2723.3 | 2910.1 |
| 120°   | 2588.8 | 2770.3 |
| 122.5° | 2457.8 | 2636.8 |
| 125°   | 2270.9 | 2435.8 |
| 127.5° | 2102.8 | 2242.0 |
| 130°   | 2003.8 | 2132.3 |
| 132.5° | 1913.9 | 2029.0 |
| 135°   | 1790.8 | 1890.0 |
| 137.5° | 1692.0 | 1773.2 |
| 140°   | 1624.2 | 1700.1 |
| 142.5° | 1568.1 | 1633.4 |
| 145°   | 1483.9 | 1533.3 |
| 147.5° | 1419.2 | 1460.2 |
| 150°   | 1378.5 | 1411.8 |
| 152.5° | 1343.8 | 1368.8 |
| 155°   | 1303.8 | 1320.4 |
| 157.5° | 1272.2 | 1283.8 |
| 160°   | 1253.3 | 1260.0 |
| 162.5° | 1240.9 | 1247.3 |
| 165°   | 1223.2 | 1229.8 |
| 167.5° | 1210.3 | 1213.1 |
| 170°   | 1206.7 | 1206.7 |
| 172.5° | 1197.4 | 1194.9 |
| 175°   | 1191.6 | 1191.6 |
| 177.5° | 1186.6 | 1183.7 |
| 180°   | 1183.7 | 1183.7 |



TEST NUMBER: P937704  
 CATALOG NUMBER: SQ4-FB-100U-100D-B40-1D-UNV-STD-W-8

**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 | 4.94             | 5.79  | 5.94  | 6.80  | 8.15  | 18.12          | 18.96 | 19.12 | 19.98 | 21.33 |
|                 | 3H   | 5.65             | 6.40  | 6.65  | 7.43  | 8.80  | 19.96          | 20.72 | 20.97 | 21.74 | 23.11 |
|                 | 4H   | 5.94             | 6.66  | 6.96  | 7.69  | 9.06  | 20.60          | 21.32 | 21.62 | 22.35 | 23.72 |
|                 | 6H   | 6.19             | 6.86  | 7.22  | 7.89  | 9.28  | 21.03          | 21.69 | 22.06 | 22.73 | 24.11 |
|                 | 8H   | 6.26             | 6.89  | 7.30  | 7.94  | 9.32  | 21.15          | 21.78 | 22.19 | 22.83 | 24.22 |
|                 | 12H  | 6.28             | 6.88  | 7.32  | 7.92  | 9.33  | 21.22          | 21.82 | 22.26 | 22.86 | 24.27 |
| 4H              | 2H   | 12.15            | 12.87 | 13.18 | 13.90 | 15.28 | 18.39          | 19.11 | 19.42 | 20.14 | 21.51 |
|                 | 3H   | 13.72            | 14.32 | 14.76 | 15.38 | 16.77 | 20.44          | 21.04 | 21.47 | 22.09 | 23.48 |
|                 | 4H   | 13.81            | 14.37 | 14.86 | 15.41 | 16.82 | 21.20          | 21.75 | 22.25 | 22.80 | 24.21 |
|                 | 6H   | 13.82            | 14.30 | 14.88 | 15.37 | 16.78 | 21.74          | 22.22 | 22.79 | 23.29 | 24.69 |
|                 | 8H   | 13.80            | 14.24 | 14.86 | 15.31 | 16.73 | 21.90          | 22.35 | 22.96 | 23.41 | 24.83 |
|                 | 12H  | 13.76            | 14.16 | 14.83 | 15.23 | 16.66 | 21.99          | 22.40 | 23.07 | 23.47 | 24.90 |
| 8H              | 4H   | 15.26            | 15.70 | 16.31 | 16.76 | 18.19 | 21.26          | 21.71 | 22.32 | 22.77 | 24.19 |
|                 | 6H   | 15.50            | 15.87 | 16.58 | 16.97 | 18.39 | 21.89          | 22.26 | 22.97 | 23.36 | 24.78 |
|                 | 8H   | 15.52            | 15.84 | 16.60 | 16.93 | 18.37 | 22.11          | 22.43 | 23.19 | 23.52 | 24.96 |
|                 | 12H  | 15.48            | 15.77 | 16.57 | 16.85 | 18.33 | 22.25          | 22.54 | 23.34 | 23.62 | 25.10 |
| 12H             | 4H   | 15.40            | 15.80 | 16.47 | 16.88 | 18.31 | 21.21          | 21.62 | 22.29 | 22.69 | 24.12 |
|                 | 6H   | 15.76            | 16.08 | 16.84 | 17.17 | 18.61 | 21.87          | 22.20 | 22.96 | 23.28 | 24.72 |
|                 | 8H   | 15.83            | 16.11 | 16.92 | 17.19 | 18.67 | 22.10          | 22.39 | 23.19 | 23.47 | 24.95 |