

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: P936405

Luminaire Tested: SQ4-FB-025U-075D-B50-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

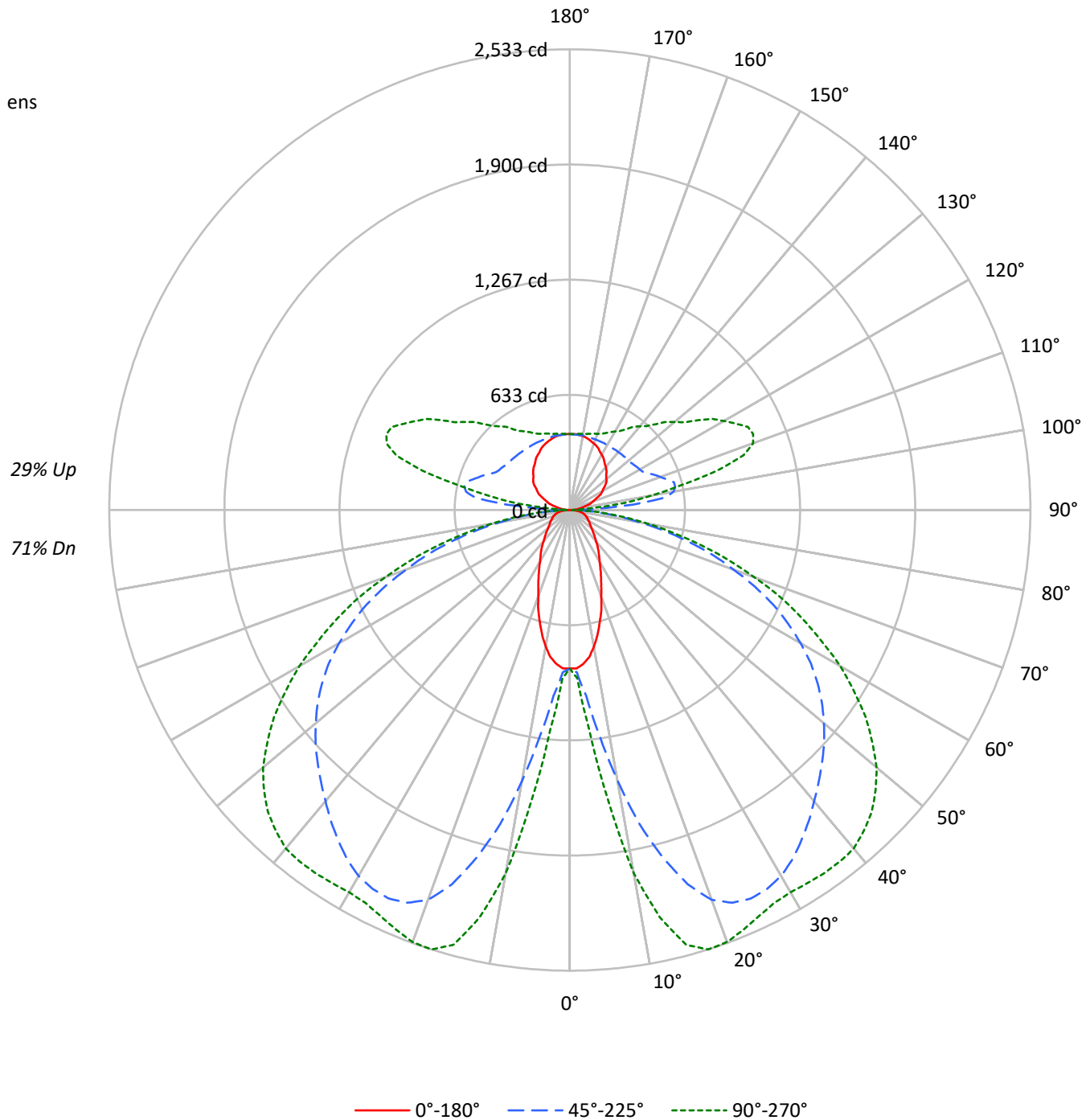
Test Method: LM-79-2019  
Report Number: P936405  
REPORT IS A COMBINATION OF REPORTS P933430 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-075D-B50-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9453.9 lumens  
Efficiency: N/A  
Efficacy: 105.0 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): 90  
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: P936405  
CATALOG NUMBER: SQ4-FB-025U-075D-B50-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P936405

CATALOG NUMBER: SQ4-FB-025U-075D-B50-1D-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   | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 95 | 95 | 95 | 85 | 85 | 85 | 76 | 76 | 76 | 76 | 76 | 76 | 71 |
| 1   | 102 | 97  | 93  | 89  | 96  | 92  | 88  | 85  | 82 | 79 | 77 | 74 | 71 | 69 | 66 | 64 | 62 | 62 | 62 | 62 | 58 |
| 2   | 92  | 84  | 77  | 71  | 87  | 79  | 73  | 68  | 71 | 66 | 62 | 64 | 60 | 57 | 57 | 54 | 51 | 51 | 51 | 51 | 48 |
| 3   | 83  | 73  | 65  | 58  | 79  | 69  | 62  | 56  | 62 | 56 | 51 | 56 | 51 | 47 | 50 | 46 | 43 | 43 | 43 | 43 | 39 |
| 4   | 76  | 64  | 55  | 49  | 71  | 61  | 53  | 47  | 55 | 48 | 43 | 49 | 44 | 39 | 44 | 40 | 36 | 36 | 36 | 36 | 33 |
| 5   | 69  | 57  | 48  | 41  | 65  | 54  | 46  | 40  | 49 | 42 | 37 | 44 | 38 | 34 | 39 | 34 | 31 | 31 | 31 | 31 | 28 |
| 6   | 64  | 51  | 42  | 35  | 60  | 48  | 40  | 34  | 43 | 37 | 32 | 39 | 33 | 29 | 35 | 30 | 27 | 27 | 27 | 27 | 24 |
| 7   | 59  | 45  | 37  | 31  | 55  | 43  | 35  | 30  | 39 | 32 | 27 | 35 | 30 | 25 | 32 | 27 | 23 | 23 | 23 | 23 | 21 |
| 8   | 54  | 41  | 33  | 27  | 51  | 39  | 31  | 26  | 36 | 29 | 24 | 32 | 26 | 22 | 29 | 24 | 21 | 21 | 21 | 21 | 18 |
| 9   | 51  | 37  | 29  | 24  | 48  | 36  | 28  | 23  | 32 | 26 | 21 | 29 | 24 | 20 | 26 | 22 | 18 | 18 | 18 | 18 | 16 |
| 10  | 47  | 34  | 26  | 21  | 45  | 33  | 25  | 21  | 30 | 23 | 19 | 27 | 22 | 18 | 24 | 20 | 16 | 16 | 16 | 16 | 14 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2695 | 2695 | 2695 |
| 5°  | 2634 | 3116 | 3623 |
| 10° | 2390 | 4544 | 6007 |
| 15° | 2032 | 5938 | 7253 |
| 20° | 1655 | 6882 | 7392 |
| 25° | 1381 | 7204 | 7242 |
| 30° | 1165 | 7251 | 7228 |
| 35° | 1031 | 7133 | 7415 |
| 40° | 899  | 6978 | 7608 |
| 45° | 814  | 6866 | 7638 |
| 50° | 748  | 6765 | 7512 |
| 55° | 717  | 6616 | 7178 |
| 60° | 735  | 6329 | 6653 |
| 65° | 766  | 5890 | 5930 |
| 70° | 818  | 5140 | 5010 |
| 75° | 910  | 4195 | 3909 |
| 80° | 1000 | 2913 | 2634 |
| 85° | 907  | 1548 | 1348 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7638 cd/sqm



TEST NUMBER: P936405

CATALOG NUMBER: SQ4-FB-025U-075D-B50-1D-UNV-STD-W-12

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.7  | 1.2       |
| 10°-20°   | 499.6  | 5.3       |
| 20°-30°   | 873.9  | 9.2       |
| 30°-40°   | 1125.0 | 11.9      |
| 40°-50°   | 1256.5 | 13.3      |
| 50°-60°   | 1203.5 | 12.7      |
| 60°-70°   | 953.8  | 10.1      |
| 70°-80°   | 560.8  | 5.9       |
| 80°-90°   | 157.4  | 1.7       |
| 90°-100°  | 203.8  | 2.2       |
| 100°-110° | 535.9  | 5.7       |
| 110°-120° | 555.7  | 5.9       |
| 120°-130° | 445.7  | 4.7       |
| 130°-140° | 349.7  | 3.7       |
| 140°-150° | 268.4  | 2.8       |
| 150°-160° | 193.3  | 2.0       |
| 160°-170° | 118.3  | 1.3       |
| 170°-180° | 40.0   | 0.4       |
| 0°-30°    | 1486.2 | 15.7      |
| 0°-40°    | 2611.2 | 27.6      |
| 0°-60°    | 5071.2 | 53.6      |
| 0°-90°    | 6743.2 | 71.3      |
| 90°-120°  | 1295.4 | 13.7      |
| 90°-150°  | 2359.2 | 25.0      |
| 90°-180°  | 2711.0 | 28.7      |
| 0°-180°   | 9453.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 871 | 871   | 871  | 871   | 871  |      |
| 5°   | 849 | 911   | 1026 | 1160  | 1202 | 78   |
| 15°  | 636 | 1174  | 1978 | 2399  | 2474 | 177  |
| 25°  | 406 | 1331  | 2357 | 2460  | 2463 | 187  |
| 35°  | 275 | 1272  | 2219 | 2345  | 2438 | 171  |
| 45°  | 188 | 1014  | 1962 | 2247  | 2348 | 145  |
| 55°  | 134 | 644   | 1664 | 1934  | 1987 | 123  |
| 65°  | 106 | 342   | 1236 | 1390  | 1410 | 106  |
| 75°  | 78  | 210   | 678  | 745   | 748  | 82   |
| 85°  | 28  | 64    | 168  | 185   | 188  | 30   |
| 90°  | 3   | 8     | 21   | 11    | 11   | 4    |
| 95°  | 27  | 106   | 351  | 181   | 123  | 30   |
| 105° | 97  | 146   | 592  | 899   | 839  | 102  |
| 115° | 172 | 208   | 475  | 947   | 1080 | 169  |
| 125° | 238 | 268   | 432  | 729   | 860  | 212  |
| 135° | 284 | 313   | 418  | 589   | 668  | 220  |
| 145° | 330 | 351   | 413  | 502   | 542  | 207  |
| 155° | 373 | 383   | 413  | 453   | 466  | 171  |
| 165° | 402 | 408   | 413  | 429   | 434  | 114  |
| 175° | 418 | 418   | 416  | 421   | 421  | 40   |
| 180° | 418 | 418   | 418  | 418   | 418  |      |



TEST NUMBER: P936405

CATALOG NUMBER: SQ4-FB-025U-075D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 871.4 | 871.4 | 871.4  | 871.4  | 871.4  | 871.4  | 871.4  | 871.4  | 871.4  | 871.4  | 871.4  |
| 2.5°   | 871.4 | 871.4 | 877.0  | 879.8  | 885.4  | 888.2  | 893.8  | 899.4  | 916.3  | 919.1  | 924.7  |
| 5°     | 849.0 | 860.2 | 896.6  | 910.6  | 949.9  | 1003.1 | 1025.5 | 1062.1 | 1137.7 | 1160.1 | 1174.1 |
| 7.5°   | 815.4 | 840.6 | 930.3  | 952.7  | 1050.8 | 1190.9 | 1249.8 | 1328.2 | 1448.7 | 1507.6 | 1555.2 |
| 10°    | 762.1 | 815.4 | 975.1  | 1028.3 | 1188.1 | 1401.1 | 1510.4 | 1619.6 | 1801.8 | 1883.0 | 1913.9 |
| 12.5°  | 703.3 | 790.2 | 1022.7 | 1095.7 | 1325.4 | 1636.5 | 1768.2 | 1888.6 | 2096.0 | 2205.3 | 2222.1 |
| 15°    | 636.1 | 753.7 | 1067.7 | 1174.1 | 1471.1 | 1832.6 | 1978.3 | 2126.8 | 2320.1 | 2398.6 | 2418.2 |
| 17.5°  | 577.2 | 725.7 | 1109.7 | 1221.8 | 1583.2 | 2009.1 | 2157.6 | 2280.9 | 2437.8 | 2491.1 | 2505.1 |
| 20°    | 504.4 | 680.9 | 1137.7 | 1283.4 | 1700.9 | 2138.0 | 2280.9 | 2376.2 | 2482.7 | 2516.3 | 2521.9 |
| 22.5°  | 451.1 | 633.3 | 1154.5 | 1305.8 | 1779.4 | 2216.5 | 2337.0 | 2412.6 | 2485.5 | 2496.7 | 2499.5 |
| 25°    | 406.3 | 580.0 | 1151.7 | 1331.0 | 1846.6 | 2264.1 | 2356.6 | 2412.6 | 2454.6 | 2460.2 | 2460.2 |
| 27.5°  | 364.3 | 521.2 | 1140.5 | 1336.6 | 1897.0 | 2275.3 | 2348.2 | 2387.4 | 2407.0 | 2418.2 | 2418.2 |
| 30°    | 327.8 | 465.1 | 1112.5 | 1325.4 | 1919.5 | 2264.1 | 2323.0 | 2342.6 | 2362.2 | 2379.0 | 2387.4 |
| 32.5°  | 299.8 | 411.9 | 1070.5 | 1303.0 | 1922.3 | 2236.1 | 2278.1 | 2289.3 | 2317.3 | 2356.6 | 2370.6 |
| 35°    | 274.6 | 358.7 | 1022.7 | 1272.2 | 1905.5 | 2191.3 | 2219.3 | 2230.5 | 2286.5 | 2345.4 | 2365.0 |
| 37.5°  | 249.4 | 319.4 | 961.1  | 1219.0 | 1880.2 | 2138.0 | 2157.6 | 2177.2 | 2264.1 | 2334.2 | 2356.6 |
| 40°    | 224.2 | 285.8 | 888.2  | 1160.1 | 1841.0 | 2073.6 | 2090.4 | 2121.2 | 2236.1 | 2317.3 | 2339.8 |
| 42.5°  | 204.5 | 257.8 | 809.8  | 1098.5 | 1790.6 | 2000.7 | 2025.9 | 2070.8 | 2202.5 | 2289.3 | 2314.5 |
| 45°    | 187.7 | 229.8 | 725.7  | 1014.3 | 1726.1 | 1925.1 | 1961.5 | 2023.1 | 2163.2 | 2247.3 | 2269.7 |
| 47.5°  | 170.9 | 210.2 | 638.9  | 927.5  | 1656.1 | 1849.4 | 1897.0 | 1967.1 | 2110.0 | 2191.3 | 2210.9 |
| 50°    | 156.9 | 190.5 | 552.0  | 835.0  | 1580.4 | 1768.2 | 1824.2 | 1897.0 | 2042.8 | 2118.4 | 2143.6 |
| 52.5°  | 145.7 | 173.7 | 470.7  | 742.5  | 1493.6 | 1684.1 | 1748.5 | 1824.2 | 1961.5 | 2034.3 | 2051.2 |
| 55°    | 134.5 | 159.7 | 400.7  | 644.5  | 1403.9 | 1594.4 | 1664.5 | 1737.3 | 1871.8 | 1933.5 | 1944.7 |
| 57.5°  | 128.9 | 148.5 | 341.8  | 552.0  | 1308.6 | 1493.6 | 1572.0 | 1639.3 | 1765.4 | 1813.0 | 1824.2 |
| 60°    | 120.5 | 140.1 | 297.0  | 473.5  | 1205.0 | 1398.3 | 1465.5 | 1532.8 | 1639.3 | 1678.5 | 1686.9 |
| 62.5°  | 112.1 | 134.5 | 263.4  | 397.9  | 1098.5 | 1286.2 | 1353.5 | 1415.1 | 1504.8 | 1532.8 | 1544.0 |
| 65°    | 106.5 | 128.9 | 238.2  | 341.8  | 989.1  | 1168.5 | 1235.8 | 1289.0 | 1361.9 | 1389.9 | 1395.5 |
| 67.5°  | 100.9 | 123.3 | 218.6  | 294.2  | 879.8  | 1050.8 | 1101.3 | 1151.7 | 1207.8 | 1235.8 | 1238.6 |
| 70°    | 92.5  | 117.7 | 201.7  | 260.6  | 767.7  | 916.3  | 958.3  | 1011.5 | 1056.4 | 1070.5 | 1078.9 |
| 72.5°  | 86.9  | 109.3 | 190.5  | 235.4  | 652.9  | 787.4  | 826.6  | 857.4  | 896.6  | 910.6  | 910.6  |
| 75°    | 78.5  | 98.1  | 179.3  | 210.2  | 535.2  | 644.5  | 678.1  | 708.9  | 739.7  | 745.3  | 736.9  |
| 77.5°  | 70.0  | 86.9  | 154.1  | 176.5  | 417.5  | 510.0  | 538.0  | 554.8  | 580.0  | 585.6  | 588.4  |
| 80°    | 58.8  | 75.7  | 120.5  | 137.3  | 302.6  | 375.5  | 395.1  | 409.1  | 431.5  | 431.5  | 437.1  |
| 82.5°  | 44.8  | 58.8  | 86.9   | 98.1   | 204.5  | 257.8  | 274.6  | 283.0  | 297.0  | 297.0  | 297.0  |
| 85°    | 28.0  | 36.4  | 56.0   | 64.4   | 123.3  | 156.9  | 168.1  | 170.9  | 182.1  | 184.9  | 184.9  |
| 87.5°  | 14.0  | 19.6  | 36.4   | 39.2   | 64.4   | 81.3   | 81.3   | 86.9   | 86.9   | 84.1   | 81.3   |
| 90°    | 2.8   | 5.0   | 7.3    | 7.8    | 12.3   | 18.3   | 21.3   | 19.0   | 14.2   | 10.6   | 10.6   |
| 92.5°  | 11.2  | 30.3  | 49.4   | 54.2   | 76.1   | 105.4  | 120.1  | 105.3  | 75.6   | 53.3   | 51.2   |
| 95°    | 26.9  | 61.8  | 96.8   | 105.5  | 187.4  | 296.5  | 351.1  | 313.3  | 237.7  | 181.0  | 174.6  |
| 97.5°  | 46.6  | 77.4  | 108.3  | 115.9  | 252.4  | 434.4  | 525.4  | 501.5  | 453.7  | 417.9  | 405.6  |
| 100°   | 61.7  | 89.7  | 117.6  | 124.6  | 276.1  | 478.0  | 579.0  | 580.8  | 584.2  | 586.8  | 572.3  |
| 102.5° | 74.6  | 100.7 | 126.7  | 133.3  | 286.9  | 491.8  | 594.1  | 624.6  | 685.4  | 731.0  | 718.5  |
| 105°   | 96.6  | 118.6 | 140.7  | 146.2  | 295.0  | 493.2  | 592.4  | 660.6  | 797.1  | 899.4  | 892.7  |
| 107.5° | 119.0 | 139.5 | 160.2  | 165.3  | 296.5  | 471.3  | 558.7  | 653.9  | 844.2  | 987.1  | 988.6  |
| 110°   | 134.1 | 152.7 | 171.3  | 176.0  | 294.2  | 451.9  | 530.7  | 637.1  | 849.8  | 1009.5 | 1016.5 |



TEST NUMBER: P936405

CATALOG NUMBER: SQ4-FB-025U-075D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 149.1 | 166.7 | 184.5 | 188.9 | 294.3 | 434.9 | 505.2 | 614.1 | 831.8 | 995.2 | 1005.9 |
| 115°   | 171.5 | 187.8 | 204.2 | 208.3 | 297.0 | 415.3 | 474.6 | 579.5 | 789.2 | 946.6 | 961.5  |
| 117.5° | 193.6 | 208.5 | 223.3 | 227.1 | 302.5 | 403.2 | 453.6 | 548.3 | 737.6 | 879.5 | 896.1  |
| 120°   | 206.5 | 220.5 | 234.5 | 238.0 | 307.0 | 399.0 | 445.1 | 531.5 | 704.6 | 834.3 | 850.4  |
| 122.5° | 219.2 | 233.3 | 247.3 | 250.9 | 313.5 | 396.9 | 438.6 | 516.5 | 672.3 | 789.1 | 804.9  |
| 125°   | 238.5 | 251.4 | 264.3 | 267.5 | 322.2 | 395.2 | 431.6 | 497.7 | 630.1 | 729.4 | 743.9  |
| 127.5° | 254.2 | 267.2 | 280.2 | 283.5 | 330.9 | 394.1 | 425.7 | 482.5 | 596.2 | 681.4 | 693.7  |
| 130°   | 262.6 | 276.7 | 290.7 | 294.1 | 337.3 | 394.7 | 423.5 | 474.1 | 575.3 | 651.1 | 662.5  |
| 132.5° | 271.4 | 285.3 | 299.3 | 302.8 | 342.4 | 395.2 | 421.5 | 466.8 | 557.4 | 625.3 | 635.5  |
| 135°   | 284.3 | 297.0 | 309.7 | 312.9 | 348.0 | 394.8 | 418.2 | 456.1 | 531.9 | 588.8 | 597.6  |
| 137.5° | 297.5 | 310.1 | 322.6 | 325.8 | 356.4 | 397.2 | 417.6 | 449.6 | 513.7 | 561.8 | 569.0  |
| 140°   | 308.4 | 320.0 | 331.7 | 334.6 | 361.6 | 397.6 | 415.6 | 443.3 | 498.7 | 540.2 | 547.0  |
| 142.5° | 316.8 | 327.6 | 338.3 | 341.0 | 365.8 | 399.0 | 415.6 | 439.9 | 488.6 | 525.1 | 530.9  |
| 145°   | 329.8 | 339.1 | 348.5 | 350.8 | 371.5 | 399.0 | 412.8 | 432.7 | 472.5 | 502.3 | 506.7  |
| 147.5° | 342.7 | 351.7 | 360.9 | 363.1 | 379.7 | 401.8 | 412.8 | 428.5 | 459.8 | 483.3 | 486.9  |
| 150°   | 351.1 | 359.3 | 367.5 | 369.6 | 384.0 | 403.2 | 412.8 | 426.1 | 452.5 | 472.3 | 475.2  |
| 152.5° | 359.8 | 366.0 | 372.2 | 373.8 | 386.8 | 404.1 | 412.8 | 424.1 | 446.7 | 463.6 | 465.9  |
| 155°   | 372.7 | 377.2 | 381.9 | 383.0 | 392.9 | 406.2 | 412.8 | 421.8 | 439.8 | 453.3 | 454.8  |
| 157.5° | 382.2 | 386.7 | 391.3 | 392.4 | 399.2 | 408.3 | 412.8 | 419.8 | 433.7 | 444.2 | 445.2  |
| 160°   | 388.7 | 392.2 | 395.7 | 396.6 | 402.0 | 409.2 | 412.8 | 418.8 | 430.8 | 439.7 | 440.3  |
| 162.5° | 395.2 | 397.8 | 400.4 | 401.1 | 405.0 | 410.2 | 412.8 | 417.9 | 428.0 | 435.5 | 436.1  |
| 165°   | 402.2 | 404.5 | 406.9 | 407.5 | 409.3 | 411.6 | 412.8 | 416.5 | 423.7 | 429.1 | 429.6  |
| 167.5° | 408.6 | 409.7 | 410.9 | 411.1 | 412.6 | 414.6 | 415.6 | 418.0 | 422.7 | 426.3 | 426.6  |
| 170°   | 412.8 | 413.9 | 415.1 | 415.3 | 415.4 | 415.5 | 415.6 | 418.0 | 422.7 | 426.3 | 426.3  |
| 172.5° | 415.1 | 415.3 | 415.5 | 415.6 | 415.6 | 415.6 | 415.6 | 417.5 | 421.2 | 424.0 | 423.8  |
| 175°   | 418.2 | 418.2 | 418.2 | 418.2 | 417.3 | 416.2 | 415.6 | 416.8 | 419.2 | 421.0 | 421.0  |
| 177.5° | 418.2 | 418.2 | 418.2 | 418.2 | 417.5 | 416.7 | 416.2 | 417.1 | 419.0 | 420.4 | 420.1  |
| 180°   | 418.2 | 418.2 | 418.2 | 418.2 | 418.2 | 418.2 | 418.2 | 418.2 | 418.2 | 418.2 | 418.2  |



TEST NUMBER: P936405

CATALOG NUMBER: SQ4-FB-025U-075D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 871.4  | 871.4  |
| 2.5°   | 930.3  | 924.7  |
| 5°     | 1196.5 | 1202.2 |
| 7.5°   | 1611.2 | 1608.4 |
| 10°    | 2003.5 | 2028.7 |
| 12.5°  | 2289.3 | 2294.9 |
| 15°    | 2463.1 | 2474.3 |
| 17.5°  | 2530.3 | 2533.1 |
| 20°    | 2533.1 | 2527.5 |
| 22.5°  | 2502.3 | 2496.7 |
| 25°    | 2465.9 | 2463.1 |
| 27.5°  | 2432.2 | 2435.0 |
| 30°    | 2418.2 | 2426.6 |
| 32.5°  | 2418.2 | 2432.2 |
| 35°    | 2423.8 | 2437.8 |
| 37.5°  | 2421.0 | 2437.8 |
| 40°    | 2409.8 | 2429.4 |
| 42.5°  | 2379.0 | 2393.0 |
| 45°    | 2331.4 | 2348.2 |
| 47.5°  | 2269.7 | 2280.9 |
| 50°    | 2191.3 | 2202.5 |
| 52.5°  | 2093.2 | 2096.0 |
| 55°    | 1975.5 | 1986.7 |
| 57.5°  | 1849.4 | 1852.2 |
| 60°    | 1709.3 | 1717.7 |
| 62.5°  | 1560.8 | 1560.8 |
| 65°    | 1403.9 | 1409.5 |
| 67.5°  | 1241.4 | 1255.4 |
| 70°    | 1076.1 | 1078.9 |
| 72.5°  | 913.5  | 913.5  |
| 75°    | 745.3  | 748.1  |
| 77.5°  | 585.6  | 585.6  |
| 80°    | 434.3  | 437.1  |
| 82.5°  | 299.8  | 305.4  |
| 85°    | 187.7  | 187.7  |
| 87.5°  | 86.9   | 78.5   |
| 90°    | 10.6   | 10.6   |
| 92.5°  | 42.8   | 34.3   |
| 95°    | 148.9  | 123.2  |
| 97.5°  | 356.8  | 307.8  |
| 100°   | 514.1  | 455.8  |
| 102.5° | 668.7  | 618.8  |
| 105°   | 865.9  | 839.1  |
| 107.5° | 995.2  | 1001.6 |
| 110°   | 1044.4 | 1072.3 |





TEST NUMBER: P936405

CATALOG NUMBER: SQ4-FB-025U-075D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 1048.8 | 1091.7 |
| 115°   | 1021.0 | 1080.5 |
| 117.5° | 962.0  | 1028.0 |
| 120°   | 914.5  | 978.6  |
| 122.5° | 868.2  | 931.5  |
| 125°   | 802.1  | 860.4  |
| 127.5° | 742.8  | 791.9  |
| 130°   | 707.9  | 753.3  |
| 132.5° | 676.1  | 716.8  |
| 135°   | 632.6  | 667.6  |
| 137.5° | 597.7  | 626.4  |
| 140°   | 573.8  | 600.6  |
| 142.5° | 554.0  | 577.0  |
| 145°   | 524.2  | 541.6  |
| 147.5° | 501.4  | 515.8  |
| 150°   | 487.0  | 498.7  |
| 152.5° | 474.7  | 483.5  |
| 155°   | 460.6  | 466.4  |
| 157.5° | 449.4  | 453.6  |
| 160°   | 442.7  | 445.1  |
| 162.5° | 438.3  | 440.6  |
| 165°   | 432.1  | 434.4  |
| 167.5° | 427.5  | 428.5  |
| 170°   | 426.3  | 426.3  |
| 172.5° | 422.9  | 422.1  |
| 175°   | 421.0  | 421.0  |
| 177.5° | 419.2  | 418.2  |
| 180°   | 418.2  | 418.2  |



TEST NUMBER: P936405  
 CATALOG NUMBER: SQ4-FB-025U-075D-B50-1D-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 | 6.19             | 7.35  | 6.94  | 8.12  | 9.04  | 19.39          | 20.54 | 20.13 | 21.31 | 22.24 |
|                 | 3H   | 6.92             | 7.96  | 7.68  | 8.74  | 9.70  | 21.25          | 22.29 | 22.01 | 23.07 | 24.03 |
|                 | 4H   | 7.23             | 8.22  | 8.00  | 9.01  | 9.97  | 21.92          | 22.90 | 22.69 | 23.69 | 24.66 |
|                 | 6H   | 7.50             | 8.41  | 8.28  | 9.21  | 10.19 | 22.37          | 23.28 | 23.15 | 24.07 | 25.06 |
|                 | 8H   | 7.57             | 8.44  | 8.37  | 9.26  | 10.24 | 22.50          | 23.37 | 23.29 | 24.18 | 25.17 |
|                 | 12H  | 7.60             | 8.43  | 8.40  | 9.24  | 10.25 | 22.58          | 23.41 | 23.38 | 24.22 | 25.23 |
| 4H              | 2H   | 13.45            | 14.44 | 14.23 | 15.23 | 16.19 | 19.70          | 20.68 | 20.47 | 21.47 | 22.44 |
|                 | 3H   | 15.05            | 15.87 | 15.84 | 16.70 | 17.68 | 21.77          | 22.60 | 22.56 | 23.42 | 24.41 |
|                 | 4H   | 15.15            | 15.91 | 15.96 | 16.73 | 17.74 | 22.56          | 23.31 | 23.36 | 24.13 | 25.14 |
|                 | 6H   | 15.18            | 15.84 | 16.00 | 16.68 | 17.70 | 23.12          | 23.77 | 23.94 | 24.62 | 25.64 |
|                 | 8H   | 15.17            | 15.78 | 15.99 | 16.62 | 17.65 | 23.29          | 23.90 | 24.11 | 24.74 | 25.78 |
|                 | 12H  | 15.14            | 15.69 | 15.98 | 16.55 | 17.59 | 23.40          | 23.95 | 24.25 | 24.82 | 25.85 |
| 8H              | 4H   | 16.63            | 17.24 | 17.45 | 18.08 | 19.11 | 22.64          | 23.25 | 23.47 | 24.10 | 25.13 |
|                 | 6H   | 16.88            | 17.39 | 17.74 | 18.28 | 19.31 | 23.29          | 23.80 | 24.14 | 24.68 | 25.71 |
|                 | 8H   | 16.91            | 17.36 | 17.77 | 18.24 | 19.29 | 23.52          | 23.97 | 24.38 | 24.85 | 25.90 |
|                 | 12H  | 16.89            | 17.29 | 17.76 | 18.16 | 19.26 | 23.68          | 24.08 | 24.55 | 24.95 | 26.05 |
| 12H             | 4H   | 16.79            | 17.34 | 17.63 | 18.20 | 19.24 | 22.61          | 23.16 | 23.45 | 24.02 | 25.06 |
|                 | 6H   | 17.15            | 17.60 | 18.01 | 18.48 | 19.53 | 23.28          | 23.73 | 24.14 | 24.61 | 25.66 |
|                 | 8H   | 17.23            | 17.63 | 18.10 | 18.50 | 19.60 | 23.52          | 23.92 | 24.39 | 24.79 | 25.90 |