

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: P938318

Luminaire Tested: SQ4-FB-150U-075D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

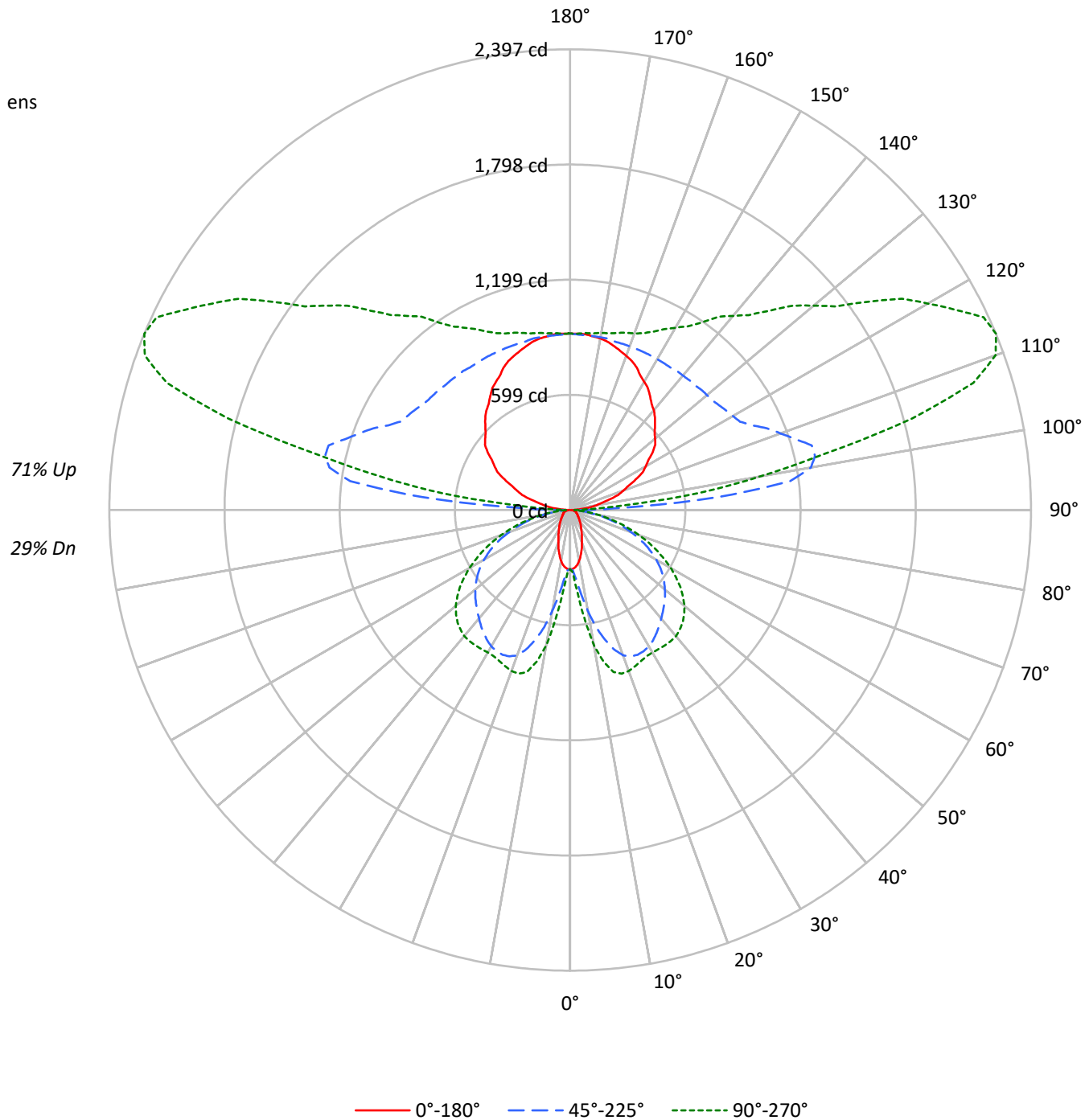
Test Method: LM-79-2019  
Report Number: P938318  
REPORT IS A COMBINATION OF REPORTS P933630 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-150U-075D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8332.7 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 63.6  
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: P938318  
CATALOG NUMBER: SQ4-FB-150U-075D-840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P938318

CATALOG NUMBER: SQ4-FB-150U-075D-840-1D-UNV-STD-W-4

**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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 | 29 |    |    | 29 |
| 1   | 93  | 88  | 84  | 81  | 83 | 79 | 76 | 73 | 62 | 60 | 58 | 46 | 45 | 43 | 32 | 31 | 30 | 23 |    |    | 23 |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 59 | 54 | 50 | 47 | 40 | 38 | 36 | 27 | 26 | 25 | 19 |    |    | 19 |
| 3   | 76  | 67  | 60  | 54  | 68 | 60 | 54 | 49 | 47 | 43 | 39 | 35 | 32 | 30 | 24 | 22 | 21 | 16 |    |    | 16 |
| 4   | 70  | 59  | 51  | 45  | 62 | 53 | 46 | 41 | 42 | 37 | 33 | 31 | 28 | 25 | 21 | 19 | 17 | 13 |    |    | 13 |
| 5   | 64  | 52  | 44  | 38  | 57 | 47 | 40 | 35 | 37 | 32 | 28 | 28 | 24 | 21 | 19 | 17 | 15 | 11 |    |    | 11 |
| 6   | 58  | 47  | 39  | 33  | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 25 | 21 | 18 | 17 | 15 | 13 | 10 |    |    | 10 |
| 7   | 54  | 42  | 34  | 28  | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 22 | 19 | 16 | 15 | 13 | 11 | 8  |    |    | 8  |
| 8   | 50  | 38  | 30  | 25  | 44 | 34 | 27 | 23 | 27 | 22 | 18 | 20 | 17 | 14 | 14 | 12 | 10 | 7  |    |    | 7  |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 24 | 20 | 24 | 20 | 16 | 18 | 15 | 12 | 13 | 10 | 9  | 6  |    |    | 6  |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 18 | 14 | 17 | 13 | 11 | 12 | 9  | 8  | 6  |    |    | 6  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2852 | 2852 | 2852 |
| 5°  | 2783 | 3293 | 3833 |
| 10° | 2521 | 4796 | 6354 |
| 15° | 2140 | 6262 | 7672 |
| 20° | 1740 | 7251 | 7819 |
| 25° | 1450 | 7583 | 7660 |
| 30° | 1221 | 7625 | 7645 |
| 35° | 1078 | 7492 | 7844 |
| 40° | 937  | 7321 | 8048 |
| 45° | 848  | 7194 | 8079 |
| 50° | 775  | 7079 | 7946 |
| 55° | 740  | 6913 | 7593 |
| 60° | 756  | 6600 | 7036 |
| 65° | 781  | 6129 | 6273 |
| 70° | 828  | 5335 | 5300 |
| 75° | 908  | 4338 | 4136 |
| 80° | 969  | 2998 | 2786 |
| 85° | 820  | 1583 | 1426 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 8079 cd/sqm



TEST NUMBER: P938318

CATALOG NUMBER: SQ4-FB-150U-075D-840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.7   | 0.5       |
| 10°-20°   | 176.2  | 2.1       |
| 20°-30°   | 308.1  | 3.7       |
| 30°-40°   | 396.6  | 4.8       |
| 40°-50°   | 443.0  | 5.3       |
| 50°-60°   | 424.3  | 5.1       |
| 60°-70°   | 336.3  | 4.0       |
| 70°-80°   | 197.7  | 2.4       |
| 80°-90°   | 58.4   | 0.7       |
| 90°-100°  | 447.6  | 5.4       |
| 100°-110° | 1176.7 | 14.1      |
| 110°-120° | 1220.1 | 14.6      |
| 120°-130° | 978.7  | 11.7      |
| 130°-140° | 767.9  | 9.2       |
| 140°-150° | 589.4  | 7.1       |
| 150°-160° | 424.5  | 5.1       |
| 160°-170° | 259.7  | 3.1       |
| 170°-180° | 87.7   | 1.1       |
| 0°-30°    | 524.0  | 6.3       |
| 0°-40°    | 920.7  | 11.0      |
| 0°-60°    | 1788.1 | 21.5      |
| 0°-90°    | 2380.5 | 28.6      |
| 90°-120°  | 2844.3 | 34.1      |
| 90°-150°  | 5180.3 | 62.2      |
| 90°-180°  | 5952.0 | 71.4      |
| 0°-180°   | 8332.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 307 | 307   | 307  | 307   | 307  |      |
| 5°   | 299 | 321   | 362  | 409   | 424  | 28   |
| 15°  | 224 | 414   | 698  | 846   | 872  | 62   |
| 25°  | 143 | 469   | 831  | 868   | 868  | 66   |
| 35°  | 97  | 449   | 782  | 827   | 860  | 60   |
| 45°  | 66  | 358   | 692  | 792   | 828  | 51   |
| 55°  | 47  | 227   | 587  | 682   | 700  | 43   |
| 65°  | 38  | 120   | 436  | 490   | 497  | 37   |
| 75°  | 28  | 74    | 239  | 263   | 264  | 29   |
| 85°  | 10  | 23    | 59   | 65    | 66   | 10   |
| 90°  | 6   | 17    | 47   | 23    | 23   | 6    |
| 95°  | 59  | 232   | 771  | 398   | 270  | 66   |
| 105° | 212 | 321   | 1301 | 1975  | 1842 | 225  |
| 115° | 376 | 457   | 1042 | 2079  | 2372 | 372  |
| 125° | 524 | 587   | 948  | 1602  | 1889 | 465  |
| 135° | 624 | 687   | 918  | 1293  | 1466 | 483  |
| 145° | 724 | 770   | 906  | 1103  | 1189 | 454  |
| 155° | 818 | 841   | 906  | 995   | 1024 | 376  |
| 165° | 883 | 895   | 906  | 942   | 954  | 249  |
| 175° | 918 | 918   | 913  | 924   | 924  | 87   |
| 180° | 918 | 918   | 918  | 918   | 918  |      |



TEST NUMBER: P938318  
 CATALOG NUMBER: SQ4-FB-150U-075D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 307.3 | 307.3 | 307.3 | 307.3 | 307.3 | 307.3  | 307.3  | 307.3  | 307.3  | 307.3  | 307.3  |
| 2.5°   | 307.3 | 307.3 | 309.2 | 310.2 | 312.2 | 313.2  | 315.2  | 317.1  | 323.1  | 324.1  | 326.0  |
| 5°     | 299.4 | 303.3 | 316.2 | 321.1 | 334.9 | 353.7  | 361.6  | 374.5  | 401.1  | 409.0  | 414.0  |
| 7.5°   | 287.5 | 296.4 | 328.0 | 335.9 | 370.5 | 419.9  | 440.6  | 468.3  | 510.8  | 531.5  | 548.3  |
| 10°    | 268.7 | 287.5 | 343.8 | 362.6 | 418.9 | 494.0  | 532.5  | 571.1  | 635.3  | 663.9  | 674.8  |
| 12.5°  | 248.0 | 278.6 | 360.6 | 386.3 | 467.3 | 577.0  | 623.4  | 665.9  | 739.0  | 777.6  | 783.5  |
| 15°    | 224.3 | 265.8 | 376.4 | 414.0 | 518.7 | 646.2  | 697.5  | 749.9  | 818.1  | 845.7  | 852.6  |
| 17.5°  | 203.5 | 255.9 | 391.2 | 430.8 | 558.2 | 708.4  | 760.8  | 804.2  | 859.6  | 878.3  | 883.3  |
| 20°    | 177.8 | 240.1 | 401.1 | 452.5 | 599.7 | 753.8  | 804.2  | 837.8  | 875.4  | 887.2  | 889.2  |
| 22.5°  | 159.1 | 223.3 | 407.1 | 460.4 | 627.4 | 781.5  | 824.0  | 850.7  | 876.4  | 880.3  | 881.3  |
| 25°    | 143.3 | 204.5 | 406.1 | 469.3 | 651.1 | 798.3  | 830.9  | 850.7  | 865.5  | 867.5  | 867.5  |
| 27.5°  | 128.4 | 183.8 | 402.1 | 471.3 | 668.9 | 802.3  | 827.9  | 841.8  | 848.7  | 852.6  | 852.6  |
| 30°    | 115.6 | 164.0 | 392.2 | 467.3 | 676.8 | 798.3  | 819.1  | 826.0  | 832.9  | 838.8  | 841.8  |
| 32.5°  | 105.7 | 145.2 | 377.4 | 459.4 | 677.8 | 788.4  | 803.2  | 807.2  | 817.1  | 830.9  | 835.8  |
| 35°    | 96.8  | 126.5 | 360.6 | 448.6 | 671.8 | 772.6  | 782.5  | 786.4  | 806.2  | 827.0  | 833.9  |
| 37.5°  | 87.9  | 112.6 | 338.9 | 429.8 | 662.9 | 753.8  | 760.8  | 767.7  | 798.3  | 823.0  | 830.9  |
| 40°    | 79.0  | 100.8 | 313.2 | 409.0 | 649.1 | 731.1  | 737.0  | 747.9  | 788.4  | 817.1  | 825.0  |
| 42.5°  | 72.1  | 90.9  | 285.5 | 387.3 | 631.3 | 705.4  | 714.3  | 730.1  | 776.6  | 807.2  | 816.1  |
| 45°    | 66.2  | 81.0  | 255.9 | 357.7 | 608.6 | 678.8  | 691.6  | 713.3  | 762.7  | 792.4  | 800.3  |
| 47.5°  | 60.3  | 74.1  | 225.3 | 327.0 | 583.9 | 652.1  | 668.9  | 693.6  | 744.0  | 772.6  | 779.5  |
| 50°    | 55.3  | 67.2  | 194.6 | 294.4 | 557.2 | 623.4  | 643.2  | 668.9  | 720.3  | 746.9  | 755.8  |
| 52.5°  | 51.4  | 61.3  | 166.0 | 261.8 | 526.6 | 593.8  | 616.5  | 643.2  | 691.6  | 717.3  | 723.2  |
| 55°    | 47.4  | 56.3  | 141.3 | 227.2 | 495.0 | 562.2  | 586.9  | 612.6  | 660.0  | 681.7  | 685.7  |
| 57.5°  | 45.4  | 52.4  | 120.5 | 194.6 | 461.4 | 526.6  | 554.3  | 578.0  | 622.4  | 639.2  | 643.2  |
| 60°    | 42.5  | 49.4  | 104.7 | 167.0 | 424.8 | 493.0  | 516.7  | 540.4  | 578.0  | 591.8  | 594.8  |
| 62.5°  | 39.5  | 47.4  | 92.9  | 140.3 | 387.3 | 453.5  | 477.2  | 498.9  | 530.6  | 540.4  | 544.4  |
| 65°    | 37.5  | 45.4  | 84.0  | 120.5 | 348.8 | 412.0  | 435.7  | 454.5  | 480.2  | 490.0  | 492.0  |
| 67.5°  | 35.6  | 43.5  | 77.1  | 103.7 | 310.2 | 370.5  | 388.3  | 406.1  | 425.8  | 435.7  | 436.7  |
| 70°    | 32.6  | 41.5  | 71.1  | 91.9  | 270.7 | 323.1  | 337.9  | 356.7  | 372.5  | 377.4  | 380.4  |
| 72.5°  | 30.6  | 38.5  | 67.2  | 83.0  | 230.2 | 277.6  | 291.5  | 302.3  | 316.2  | 321.1  | 321.1  |
| 75°    | 27.7  | 34.6  | 63.2  | 74.1  | 188.7 | 227.2  | 239.1  | 250.0  | 260.8  | 262.8  | 259.8  |
| 77.5°  | 24.7  | 30.6  | 54.3  | 62.2  | 147.2 | 179.8  | 189.7  | 195.6  | 204.5  | 206.5  | 207.5  |
| 80°    | 20.7  | 26.7  | 42.5  | 48.4  | 106.7 | 132.4  | 139.3  | 144.2  | 152.2  | 152.2  | 154.1  |
| 82.5°  | 15.8  | 20.7  | 30.6  | 34.6  | 72.1  | 90.9   | 96.8   | 99.8   | 104.7  | 104.7  | 104.7  |
| 85°    | 9.9   | 12.8  | 19.8  | 22.7  | 43.5  | 55.3   | 59.3   | 60.3   | 64.2   | 65.2   | 65.2   |
| 87.5°  | 4.9   | 6.9   | 12.8  | 13.8  | 22.7  | 28.7   | 28.7   | 30.6   | 30.6   | 29.6   | 28.7   |
| 90°    | 6.1   | 11.1  | 16.0  | 17.3  | 27.2  | 40.3   | 46.8   | 41.6   | 31.2   | 23.4   | 23.4   |
| 92.5°  | 24.6  | 66.5  | 108.5 | 119.0 | 167.2 | 231.5  | 263.7  | 231.1  | 166.0  | 117.1  | 112.4  |
| 95°    | 59.2  | 135.8 | 212.5 | 231.7 | 411.4 | 651.1  | 770.9  | 687.9  | 522.0  | 397.5  | 383.3  |
| 97.5°  | 102.3 | 169.9 | 237.6 | 254.5 | 554.2 | 953.8  | 1153.6 | 1101.1 | 996.2  | 917.6  | 890.7  |
| 100°   | 135.6 | 196.9 | 258.3 | 273.6 | 606.1 | 1049.6 | 1271.3 | 1275.1 | 1282.8 | 1288.5 | 1256.5 |
| 102.5° | 163.9 | 221.2 | 278.4 | 292.7 | 630.0 | 1079.7 | 1304.6 | 1371.3 | 1505.0 | 1605.3 | 1577.9 |
| 105°   | 212.0 | 260.5 | 308.9 | 321.1 | 647.6 | 1083.0 | 1300.8 | 1450.6 | 1750.2 | 1975.0 | 1960.3 |
| 107.5° | 261.3 | 306.5 | 351.7 | 363.0 | 651.0 | 1034.9 | 1226.9 | 1435.9 | 1853.8 | 2167.3 | 2170.8 |
| 110°   | 294.5 | 335.3 | 376.2 | 386.4 | 646.1 | 992.1  | 1165.2 | 1398.9 | 1866.1 | 2216.6 | 2231.9 |



TEST NUMBER: P938318

CATALOG NUMBER: SQ4-FB-150U-075D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 327.2 | 366.2 | 405.1 | 414.8 | 646.3 | 954.9 | 1109.2 | 1348.3 | 1826.5 | 2185.2 | 2208.7 |
| 115°   | 376.5 | 412.4 | 448.3 | 457.2 | 652.2 | 912.1 | 1042.0 | 1272.3 | 1733.1 | 2078.6 | 2111.3 |
| 117.5° | 425.2 | 457.8 | 490.4 | 498.5 | 664.3 | 885.3 | 995.8  | 1203.7 | 1619.4 | 1931.2 | 1967.5 |
| 120°   | 453.5 | 484.2 | 514.8 | 522.6 | 674.1 | 876.3 | 977.3  | 1167.2 | 1547.1 | 1832.0 | 1867.2 |
| 122.5° | 481.3 | 512.2 | 543.2 | 550.9 | 688.3 | 871.6 | 963.2  | 1134.2 | 1476.3 | 1732.9 | 1767.5 |
| 125°   | 523.8 | 552.0 | 580.3 | 587.3 | 707.4 | 867.7 | 947.8  | 1093.0 | 1383.6 | 1601.5 | 1633.6 |
| 127.5° | 558.3 | 586.8 | 615.2 | 622.3 | 726.5 | 865.4 | 934.8  | 1059.6 | 1309.1 | 1496.2 | 1523.2 |
| 130°   | 576.8 | 607.4 | 638.1 | 645.8 | 740.5 | 866.8 | 929.9  | 1041.0 | 1263.1 | 1429.6 | 1454.5 |
| 132.5° | 595.9 | 626.6 | 657.2 | 664.9 | 751.8 | 867.7 | 925.6  | 1025.0 | 1223.8 | 1372.9 | 1395.3 |
| 135°   | 624.2 | 652.2 | 680.0 | 687.1 | 764.1 | 866.8 | 918.1  | 1001.4 | 1167.9 | 1292.8 | 1312.1 |
| 137.5° | 653.2 | 680.8 | 708.5 | 715.4 | 782.6 | 872.2 | 917.0  | 987.3  | 1128.1 | 1233.7 | 1249.4 |
| 140°   | 677.3 | 702.8 | 728.3 | 734.6 | 794.0 | 873.1 | 912.6  | 973.4  | 1095.0 | 1186.2 | 1200.9 |
| 142.5° | 695.7 | 719.3 | 742.8 | 748.7 | 803.3 | 876.2 | 912.6  | 966.1  | 1072.9 | 1153.0 | 1165.6 |
| 145°   | 724.1 | 744.7 | 765.1 | 770.2 | 815.7 | 876.3 | 906.5  | 950.2  | 1037.5 | 1103.0 | 1112.6 |
| 147.5° | 752.4 | 772.4 | 792.4 | 797.4 | 833.8 | 882.3 | 906.5  | 940.9  | 1009.5 | 1061.1 | 1069.0 |
| 150°   | 770.9 | 789.0 | 807.0 | 811.5 | 843.2 | 885.3 | 906.5  | 935.5  | 993.5  | 1037.1 | 1043.5 |
| 152.5° | 790.0 | 803.7 | 817.4 | 820.8 | 849.4 | 887.4 | 906.5  | 931.3  | 980.9  | 1018.0 | 1022.9 |
| 155°   | 818.4 | 828.5 | 838.6 | 841.2 | 862.9 | 892.0 | 906.5  | 926.2  | 965.7  | 995.2  | 998.5  |
| 157.5° | 839.3 | 849.2 | 859.0 | 861.4 | 876.5 | 896.5 | 906.5  | 921.8  | 952.4  | 975.5  | 977.7  |
| 160°   | 853.4 | 861.1 | 868.8 | 870.7 | 882.7 | 898.6 | 906.5  | 919.6  | 945.9  | 965.6  | 966.9  |
| 162.5° | 867.7 | 873.4 | 879.1 | 880.6 | 889.2 | 900.8 | 906.5  | 917.6  | 939.8  | 956.4  | 957.6  |
| 165°   | 883.1 | 888.2 | 893.4 | 894.7 | 898.7 | 903.9 | 906.5  | 914.4  | 930.3  | 942.2  | 943.4  |
| 167.5° | 897.2 | 899.7 | 902.1 | 902.7 | 906.0 | 910.4 | 912.6  | 917.9  | 928.2  | 936.0  | 936.6  |
| 170°   | 906.5 | 909.0 | 911.4 | 912.0 | 912.2 | 912.5 | 912.6  | 917.9  | 928.2  | 936.0  | 936.0  |
| 172.5° | 911.4 | 911.9 | 912.5 | 912.6 | 912.6 | 912.6 | 912.6  | 916.8  | 925.0  | 931.1  | 930.6  |
| 175°   | 918.1 | 918.1 | 918.1 | 918.1 | 916.3 | 913.8 | 912.6  | 915.2  | 920.4  | 924.4  | 924.4  |
| 177.5° | 918.1 | 918.1 | 918.1 | 918.1 | 916.8 | 914.9 | 913.9  | 916.0  | 920.0  | 923.1  | 922.5  |
| 180°   | 918.1 | 918.1 | 918.1 | 918.1 | 918.1 | 918.1 | 918.1  | 918.1  | 918.1  | 918.1  | 918.1  |



TEST NUMBER: P938318

CATALOG NUMBER: SQ4-FB-150U-075D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 307.3  | 307.3  |
| 2.5°   | 328.0  | 326.0  |
| 5°     | 421.9  | 423.9  |
| 7.5°   | 568.1  | 567.1  |
| 10°    | 706.4  | 715.3  |
| 12.5°  | 807.2  | 809.2  |
| 15°    | 868.5  | 872.4  |
| 17.5°  | 892.2  | 893.2  |
| 20°    | 893.2  | 891.2  |
| 22.5°  | 882.3  | 880.3  |
| 25°    | 869.4  | 868.5  |
| 27.5°  | 857.6  | 858.6  |
| 30°    | 852.6  | 855.6  |
| 32.5°  | 852.6  | 857.6  |
| 35°    | 854.6  | 859.6  |
| 37.5°  | 853.6  | 859.6  |
| 40°    | 849.7  | 856.6  |
| 42.5°  | 838.8  | 843.8  |
| 45°    | 822.0  | 827.9  |
| 47.5°  | 800.3  | 804.2  |
| 50°    | 772.6  | 776.6  |
| 52.5°  | 738.0  | 739.0  |
| 55°    | 696.5  | 700.5  |
| 57.5°  | 652.1  | 653.1  |
| 60°    | 602.7  | 605.6  |
| 62.5°  | 550.3  | 550.3  |
| 65°    | 495.0  | 497.0  |
| 67.5°  | 437.7  | 442.6  |
| 70°    | 379.4  | 380.4  |
| 72.5°  | 322.1  | 322.1  |
| 75°    | 262.8  | 263.8  |
| 77.5°  | 206.5  | 206.5  |
| 80°    | 153.1  | 154.1  |
| 82.5°  | 105.7  | 107.7  |
| 85°    | 66.2   | 66.2   |
| 87.5°  | 30.6   | 27.7   |
| 90°    | 23.4   | 23.4   |
| 92.5°  | 93.8   | 75.2   |
| 95°    | 326.9  | 270.5  |
| 97.5°  | 783.4  | 676.0  |
| 100°   | 1128.7 | 1000.7 |
| 102.5° | 1468.4 | 1358.8 |
| 105°   | 1901.4 | 1842.5 |
| 107.5° | 2185.1 | 2199.3 |
| 110°   | 2293.2 | 2354.6 |





TEST NUMBER: P938318

CATALOG NUMBER: SQ4-FB-150U-075D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 2302.9 | 2397.1 |
| 115°   | 2241.9 | 2372.5 |
| 117.5° | 2112.3 | 2257.2 |
| 120°   | 2008.0 | 2148.8 |
| 122.5° | 1906.4 | 2045.3 |
| 125°   | 1761.4 | 1889.4 |
| 127.5° | 1631.1 | 1739.0 |
| 130°   | 1554.2 | 1653.9 |
| 132.5° | 1484.5 | 1573.8 |
| 135°   | 1389.0 | 1466.0 |
| 137.5° | 1312.5 | 1375.4 |
| 140°   | 1259.8 | 1318.7 |
| 142.5° | 1216.3 | 1266.9 |
| 145°   | 1151.0 | 1189.4 |
| 147.5° | 1100.8 | 1132.6 |
| 150°   | 1069.3 | 1095.0 |
| 152.5° | 1042.3 | 1061.7 |
| 155°   | 1011.3 | 1024.2 |
| 157.5° | 986.7  | 995.8  |
| 160°   | 972.1  | 977.3  |
| 162.5° | 962.5  | 967.4  |
| 165°   | 948.7  | 953.9  |
| 167.5° | 938.8  | 941.0  |
| 170°   | 936.0  | 936.0  |
| 172.5° | 928.7  | 926.8  |
| 175°   | 924.4  | 924.4  |
| 177.5° | 920.3  | 918.1  |
| 180°   | 918.1  | 918.1  |



TEST NUMBER: P938318  
 CATALOG NUMBER: SQ4-FB-150U-075D-840-1D-UNV-STD-W-4

**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 | 2.24             | 2.96  | 3.36  | 4.07  | 5.62  | 15.38          | 16.10 | 16.50 | 17.21 | 18.76 |
|                 | 3H   | 2.94             | 3.58  | 4.06  | 4.70  | 6.26  | 17.19          | 17.84 | 18.32 | 18.96 | 20.52 |
|                 | 4H   | 3.23             | 3.84  | 4.36  | 4.96  | 6.53  | 17.82          | 18.43 | 18.96 | 19.55 | 21.12 |
|                 | 6H   | 3.47             | 4.03  | 4.61  | 5.16  | 6.74  | 18.23          | 18.79 | 19.37 | 19.92 | 21.50 |
|                 | 8H   | 3.53             | 4.07  | 4.68  | 5.21  | 6.78  | 18.34          | 18.88 | 19.49 | 20.02 | 21.59 |
|                 | 12H  | 3.55             | 4.05  | 4.70  | 5.19  | 6.78  | 18.40          | 18.91 | 19.55 | 20.04 | 21.64 |
| 4H              | 2H   | 9.41             | 10.02 | 10.56 | 11.15 | 12.71 | 15.64          | 16.25 | 16.78 | 17.37 | 18.94 |
|                 | 3H   | 10.97            | 11.48 | 12.12 | 12.63 | 14.21 | 17.66          | 18.17 | 18.80 | 19.31 | 20.89 |
|                 | 4H   | 11.06            | 11.53 | 12.21 | 12.67 | 14.27 | 18.41          | 18.88 | 19.56 | 20.01 | 21.61 |
|                 | 6H   | 11.06            | 11.46 | 12.22 | 12.63 | 14.21 | 18.92          | 19.33 | 20.08 | 20.49 | 22.08 |
|                 | 8H   | 11.03            | 11.41 | 12.19 | 12.56 | 14.17 | 19.07          | 19.45 | 20.23 | 20.60 | 22.21 |
|                 | 12H  | 10.98            | 11.33 | 12.16 | 12.49 | 14.10 | 19.15          | 19.49 | 20.33 | 20.66 | 22.27 |
| 8H              | 4H   | 12.48            | 12.86 | 13.64 | 14.01 | 15.62 | 18.45          | 18.83 | 19.61 | 19.98 | 21.59 |
|                 | 6H   | 12.72            | 13.03 | 13.89 | 14.22 | 15.82 | 19.06          | 19.37 | 20.24 | 20.57 | 22.17 |
|                 | 8H   | 12.73            | 13.00 | 13.91 | 14.18 | 15.80 | 19.27          | 19.55 | 20.46 | 20.72 | 22.34 |
|                 | 12H  | 12.69            | 12.93 | 13.88 | 14.10 | 15.76 | 19.40          | 19.64 | 20.59 | 20.81 | 22.47 |
| 12H             | 4H   | 12.61            | 12.96 | 13.79 | 14.12 | 15.73 | 18.40          | 18.74 | 19.57 | 19.90 | 21.52 |
|                 | 6H   | 12.97            | 13.24 | 14.15 | 14.41 | 16.04 | 19.05          | 19.32 | 20.23 | 20.49 | 22.11 |
|                 | 8H   | 13.03            | 13.27 | 14.22 | 14.44 | 16.10 | 19.26          | 19.50 | 20.45 | 20.67 | 22.33 |