

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: P937218

Luminaire Tested: SQ4-FB-075U-100D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937218  
REPORT IS A COMBINATION OF REPORTS P933503 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-075U-100D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

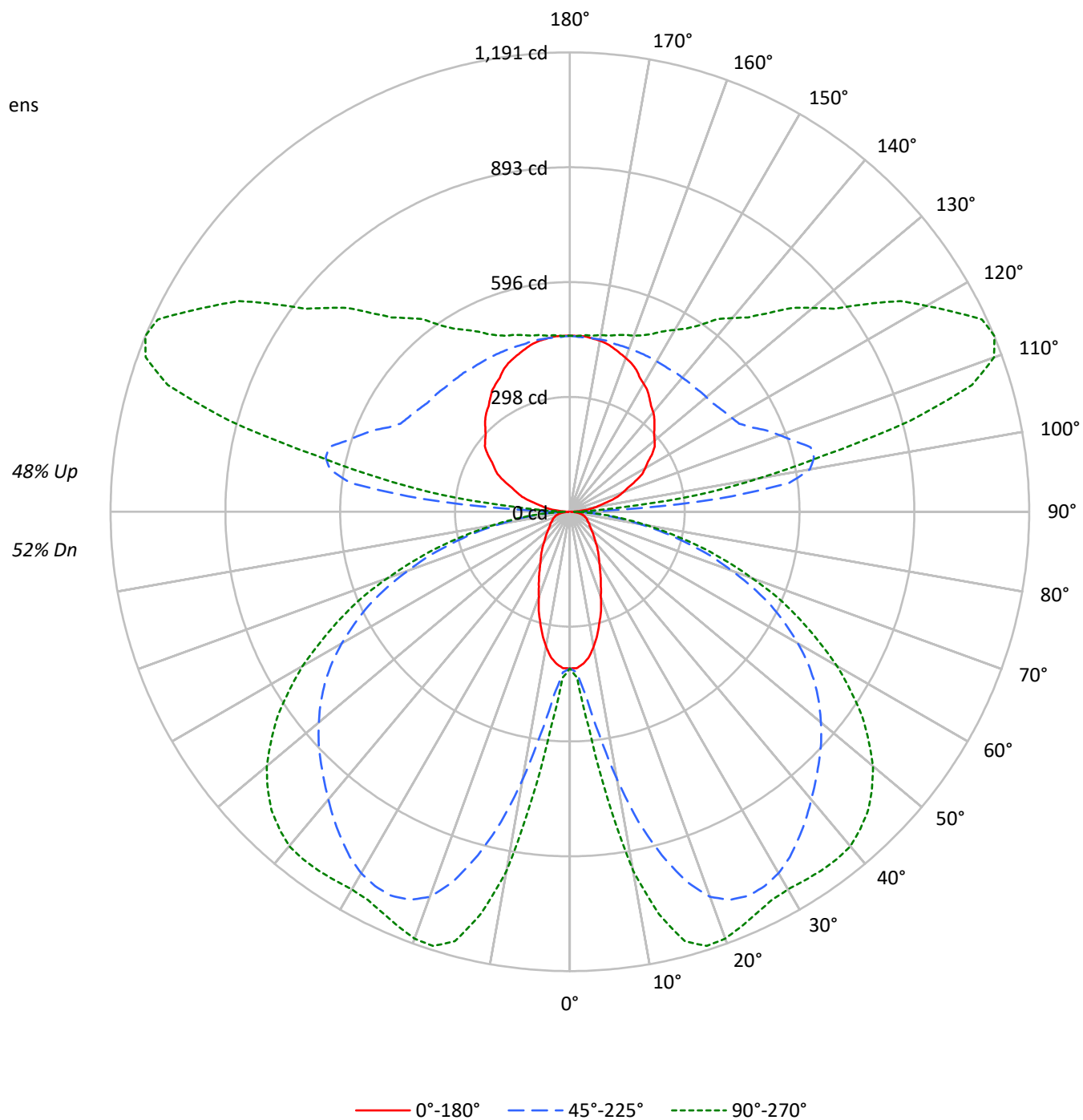
Lumens per Lamp: N/A  
Luminaire Lumens: 6100.9 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse

Input Watts (W): 51.2  
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: P937218

CATALOG NUMBER: SQ4-FB-075U-100D-840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot



TEST NUMBER: P937218

CATALOG NUMBER: SQ4-FB-075U-100D-840-1D-UNV-STD-W-4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20 |    |    |    |    | 20 |    |    |    |    | 20 |    |    |    |    | 20 |
| RC  | 80  |     |     |     | 70 |    |    |    |    | 50 |    |    |    |    | 30 |    |    |    |    | 0  |
| RW  | 70  | 50  | 30  | 10  | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 58 | 58 | 58 | 58 | 58 | 52 |
| 1   | 98  | 93  | 89  | 85  | 90 | 86 | 82 | 79 | 73 | 70 | 68 | 61 | 59 | 57 | 50 | 49 | 47 | 47 | 47 | 42 |
| 2   | 88  | 80  | 74  | 69  | 81 | 74 | 69 | 64 | 63 | 59 | 55 | 53 | 50 | 47 | 43 | 41 | 39 | 39 | 39 | 34 |
| 3   | 80  | 70  | 62  | 56  | 74 | 65 | 58 | 53 | 55 | 50 | 46 | 46 | 42 | 39 | 38 | 35 | 32 | 32 | 32 | 28 |
| 4   | 73  | 62  | 53  | 47  | 67 | 57 | 50 | 44 | 49 | 43 | 38 | 41 | 36 | 33 | 33 | 30 | 27 | 27 | 27 | 24 |
| 5   | 67  | 55  | 46  | 40  | 61 | 51 | 43 | 37 | 43 | 37 | 33 | 36 | 32 | 28 | 30 | 26 | 23 | 23 | 23 | 20 |
| 6   | 61  | 49  | 40  | 34  | 56 | 45 | 38 | 32 | 39 | 33 | 28 | 32 | 28 | 24 | 27 | 23 | 20 | 20 | 20 | 17 |
| 7   | 56  | 44  | 35  | 30  | 52 | 41 | 33 | 28 | 35 | 29 | 24 | 29 | 25 | 21 | 24 | 20 | 18 | 18 | 18 | 15 |
| 8   | 52  | 39  | 31  | 26  | 48 | 37 | 29 | 24 | 31 | 26 | 21 | 27 | 22 | 19 | 22 | 18 | 16 | 16 | 16 | 13 |
| 9   | 49  | 36  | 28  | 23  | 45 | 33 | 26 | 22 | 29 | 23 | 19 | 24 | 20 | 16 | 20 | 17 | 14 | 14 | 14 | 12 |
| 10  | 45  | 33  | 25  | 20  | 42 | 31 | 24 | 19 | 26 | 21 | 17 | 22 | 18 | 15 | 19 | 15 | 12 | 12 | 12 | 10 |

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

|     | 0°   | 45°   | 90°   |
|-----|------|-------|-------|
| 0°  | 3767 | 3767  | 3767  |
| 5°  | 3677 | 4351  | 5064  |
| 10° | 3331 | 6338  | 8395  |
| 15° | 2827 | 8275  | 10137 |
| 20° | 2299 | 9582  | 10331 |
| 25° | 1916 | 10019 | 10122 |
| 30° | 1613 | 10075 | 10103 |
| 35° | 1424 | 9899  | 10364 |
| 40° | 1239 | 9674  | 10634 |
| 45° | 1119 | 9506  | 10675 |
| 50° | 1025 | 9354  | 10498 |
| 55° | 978  | 9134  | 10033 |
| 60° | 998  | 8721  | 9299  |
| 65° | 1034 | 8099  | 8288  |
| 70° | 1094 | 7049  | 7002  |
| 75° | 1200 | 5734  | 5465  |
| 80° | 1282 | 3962  | 3681  |
| 85° | 1076 | 2090  | 1883  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 10675 cd/sqm

TEST NUMBER: P937218

CATALOG NUMBER: SQ4-FB-075U-100D-840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.5   | 0.9       |
| 10°-20°   | 232.8  | 3.8       |
| 20°-30°   | 407.1  | 6.7       |
| 30°-40°   | 524.1  | 8.6       |
| 40°-50°   | 585.4  | 9.6       |
| 50°-60°   | 560.7  | 9.2       |
| 60°-70°   | 444.4  | 7.3       |
| 70°-80°   | 261.3  | 4.3       |
| 80°-90°   | 74.3   | 1.2       |
| 90°-100°  | 222.5  | 3.6       |
| 100°-110° | 584.8  | 9.6       |
| 110°-120° | 606.4  | 9.9       |
| 120°-130° | 486.4  | 8.0       |
| 130°-140° | 381.7  | 6.3       |
| 140°-150° | 292.9  | 4.8       |
| 150°-160° | 211.0  | 3.5       |
| 160°-170° | 129.1  | 2.1       |
| 170°-180° | 43.6   | 0.7       |
| <hr/>     |        |           |
| 0°-30°    | 692.4  | 11.3      |
| 0°-40°    | 1216.5 | 19.9      |
| 0°-60°    | 2362.6 | 38.7      |
| 0°-90°    | 3142.6 | 51.5      |
| 90°-120°  | 1413.7 | 23.2      |
| 90°-150°  | 2574.7 | 42.2      |
| 90°-180°  | 2958.0 | 48.5      |
| 0°-180°   | 6100.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|-----|-------|------|-------|------|------|
| 0°   | 406 | 406   | 406  | 406   | 406  |      |
| 5°   | 396 | 424   | 478  | 540   | 560  | 37   |
| 15°  | 296 | 547   | 922  | 1118  | 1153 | 82   |
| 25°  | 189 | 620   | 1098 | 1146  | 1148 | 87   |
| 35°  | 128 | 593   | 1034 | 1093  | 1136 | 80   |
| 45°  | 87  | 473   | 914  | 1047  | 1094 | 68   |
| 55°  | 63  | 300   | 776  | 901   | 926  | 57   |
| 65°  | 50  | 159   | 576  | 648   | 657  | 49   |
| 75°  | 37  | 98    | 316  | 347   | 349  | 38   |
| 85°  | 13  | 30    | 78   | 86    | 87   | 14   |
| 90°  | 3   | 9     | 23   | 12    | 12   | 3    |
| 95°  | 29  | 115   | 383  | 198   | 134  | 33   |
| 105° | 105 | 160   | 646  | 982   | 916  | 112  |
| 115° | 187 | 227   | 518  | 1033  | 1179 | 185  |
| 125° | 260 | 292   | 471  | 796   | 939  | 231  |
| 135° | 310 | 342   | 456  | 643   | 729  | 240  |
| 145° | 360 | 383   | 450  | 548   | 591  | 225  |
| 155° | 407 | 418   | 450  | 495   | 509  | 187  |
| 165° | 439 | 445   | 450  | 468   | 474  | 124  |
| 175° | 456 | 456   | 454  | 459   | 459  | 43   |
| 180° | 456 | 456   | 456  | 456   | 456  |      |

TEST NUMBER: P937218

CATALOG NUMBER: SQ4-FB-075U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 406.0 | 406.0 | 406.0 | 406.0 | 406.0 | 406.0  | 406.0  | 406.0  | 406.0  | 406.0  | 406.0  |
| 2.5°   | 406.0 | 406.0 | 408.6 | 409.9 | 412.5 | 413.9  | 416.4  | 419.0  | 426.9  | 428.2  | 430.8  |
| 5°     | 395.6 | 400.8 | 417.7 | 424.2 | 442.5 | 467.3  | 477.8  | 494.8  | 530.1  | 540.4  | 547.0  |
| 7.5°   | 379.9 | 391.6 | 433.4 | 443.9 | 489.6 | 554.9  | 582.2  | 618.8  | 674.9  | 702.4  | 724.5  |
| 10°    | 355.1 | 379.9 | 454.3 | 479.1 | 553.5 | 652.8  | 703.7  | 754.5  | 839.4  | 877.2  | 891.7  |
| 12.5°  | 327.7 | 368.1 | 476.5 | 510.4 | 617.5 | 762.4  | 823.8  | 879.9  | 976.5  | 1027.4 | 1035.2 |
| 15°    | 296.3 | 351.1 | 497.4 | 547.0 | 685.4 | 853.8  | 921.7  | 990.9  | 1081.0 | 1117.5 | 1126.6 |
| 17.5°  | 268.9 | 338.1 | 516.9 | 569.2 | 737.6 | 936.0  | 1005.2 | 1062.7 | 1135.8 | 1160.6 | 1167.1 |
| 20°    | 234.9 | 317.2 | 530.1 | 597.9 | 792.5 | 996.1  | 1062.7 | 1107.1 | 1156.7 | 1172.4 | 1174.9 |
| 22.5°  | 210.1 | 295.0 | 537.9 | 608.3 | 828.9 | 1032.7 | 1088.8 | 1124.0 | 1157.9 | 1163.2 | 1164.5 |
| 25°    | 189.3 | 270.2 | 536.6 | 620.1 | 860.4 | 1054.8 | 1097.9 | 1124.0 | 1143.6 | 1146.2 | 1146.2 |
| 27.5°  | 169.7 | 242.9 | 531.3 | 622.7 | 883.8 | 1060.0 | 1094.0 | 1112.3 | 1121.4 | 1126.6 | 1126.6 |
| 30°    | 152.7 | 216.7 | 518.3 | 617.5 | 894.2 | 1054.8 | 1082.3 | 1091.3 | 1100.5 | 1108.3 | 1112.3 |
| 32.5°  | 139.7 | 191.9 | 498.7 | 607.0 | 895.5 | 1041.7 | 1061.3 | 1066.5 | 1079.6 | 1097.9 | 1104.5 |
| 35°    | 127.9 | 167.1 | 476.5 | 592.7 | 887.7 | 1020.9 | 1033.9 | 1039.2 | 1065.3 | 1092.7 | 1101.8 |
| 37.5°  | 116.2 | 148.8 | 447.8 | 567.9 | 876.0 | 996.1  | 1005.2 | 1014.4 | 1054.8 | 1087.5 | 1097.9 |
| 40°    | 104.4 | 133.2 | 413.9 | 540.4 | 857.7 | 966.1  | 973.9  | 988.3  | 1041.7 | 1079.6 | 1090.1 |
| 42.5°  | 95.3  | 120.1 | 377.3 | 511.8 | 834.2 | 932.1  | 943.8  | 964.8  | 1026.1 | 1066.5 | 1078.3 |
| 45°    | 87.4  | 107.0 | 338.1 | 472.6 | 804.1 | 896.9  | 913.8  | 942.6  | 1007.9 | 1047.0 | 1057.5 |
| 47.5°  | 79.6  | 97.9  | 297.7 | 432.2 | 771.5 | 861.6  | 883.8  | 916.5  | 983.1  | 1020.9 | 1030.0 |
| 50°    | 73.1  | 88.8  | 257.2 | 389.1 | 736.3 | 823.8  | 849.9  | 883.8  | 951.7  | 986.9  | 998.7  |
| 52.5°  | 67.9  | 80.9  | 219.3 | 346.0 | 695.8 | 784.6  | 814.6  | 849.9  | 913.8  | 947.8  | 955.6  |
| 55°    | 62.6  | 74.4  | 186.7 | 300.3 | 654.1 | 742.8  | 775.5  | 809.4  | 872.1  | 900.8  | 906.0  |
| 57.5°  | 60.1  | 69.2  | 159.3 | 257.2 | 609.7 | 695.8  | 732.4  | 763.7  | 822.4  | 844.6  | 849.9  |
| 60°    | 56.1  | 65.3  | 138.4 | 220.6 | 561.4 | 651.4  | 682.8  | 714.1  | 763.7  | 782.0  | 785.9  |
| 62.5°  | 52.3  | 62.6  | 122.7 | 185.3 | 511.8 | 599.2  | 630.5  | 659.3  | 701.1  | 714.1  | 719.4  |
| 65°    | 49.6  | 60.1  | 111.0 | 159.3 | 460.8 | 544.4  | 575.7  | 600.5  | 634.5  | 647.5  | 650.1  |
| 67.5°  | 47.0  | 57.4  | 101.9 | 137.0 | 409.9 | 489.6  | 513.1  | 536.6  | 562.7  | 575.7  | 577.0  |
| 70°    | 43.1  | 54.8  | 94.0  | 121.4 | 357.7 | 426.9  | 446.5  | 471.3  | 492.1  | 498.7  | 502.6  |
| 72.5°  | 40.5  | 50.9  | 88.8  | 109.7 | 304.2 | 366.8  | 385.1  | 399.4  | 417.7  | 424.2  | 424.2  |
| 75°    | 36.6  | 45.6  | 83.6  | 97.9  | 249.4 | 300.3  | 316.0  | 330.3  | 344.6  | 347.3  | 343.3  |
| 77.5°  | 32.6  | 40.5  | 71.8  | 82.2  | 194.5 | 237.6  | 250.7  | 258.5  | 270.2  | 272.9  | 274.2  |
| 80°    | 27.4  | 35.3  | 56.1  | 63.9  | 141.0 | 175.0  | 184.1  | 190.6  | 201.1  | 201.1  | 203.6  |
| 82.5°  | 20.8  | 27.4  | 40.5  | 45.6  | 95.3  | 120.1  | 127.9  | 131.9  | 138.4  | 138.4  | 138.4  |
| 85°    | 13.0  | 17.0  | 26.1  | 30.0  | 57.4  | 73.1   | 78.3   | 79.6   | 84.9   | 86.2   | 86.2   |
| 87.5°  | 6.5   | 9.1   | 17.0  | 18.3  | 30.0  | 37.8   | 37.8   | 40.5   | 40.5   | 39.1   | 37.8   |
| 90°    | 3.1   | 5.5   | 8.0   | 8.6   | 13.5  | 20.1   | 23.3   | 20.7   | 15.5   | 11.7   | 11.7   |
| 92.5°  | 12.3  | 33.1  | 53.8  | 59.1  | 83.1  | 115.1  | 131.1  | 114.9  | 82.5   | 58.2   | 55.9   |
| 95°    | 29.4  | 67.6  | 105.7 | 115.2 | 204.5 | 323.6  | 383.1  | 341.8  | 259.4  | 197.5  | 190.5  |
| 97.5°  | 50.9  | 84.5  | 118.1 | 126.5 | 275.5 | 474.0  | 573.3  | 547.3  | 495.2  | 456.1  | 442.7  |
| 100°   | 67.4  | 97.8  | 128.3 | 135.9 | 301.2 | 521.7  | 631.8  | 633.7  | 637.6  | 640.4  | 624.5  |
| 102.5° | 81.5  | 110.0 | 138.3 | 145.4 | 313.1 | 536.7  | 648.4  | 681.6  | 748.0  | 797.8  | 784.2  |
| 105°   | 105.3 | 129.4 | 153.5 | 159.6 | 321.9 | 538.4  | 646.5  | 721.0  | 869.9  | 981.6  | 974.3  |
| 107.5° | 129.8 | 152.3 | 174.8 | 180.4 | 323.6 | 514.4  | 609.8  | 713.6  | 921.3  | 1077.1 | 1078.9 |
| 110°   | 146.4 | 166.7 | 187.0 | 192.1 | 321.1 | 493.1  | 579.2  | 695.3  | 927.4  | 1101.6 | 1109.2 |

TEST NUMBER: P937218

CATALOG NUMBER: SQ4-FB-075U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 112.5° | 162.6 | 182.0 | 201.3 | 206.1 | 321.2 | 474.6 | 551.3 | 670.2 | 907.8 | 1086.0 | 1097.8 |
| 115°   | 187.1 | 204.9 | 222.8 | 227.2 | 324.2 | 453.3 | 517.9 | 632.4 | 861.3 | 1033.1 | 1049.3 |
| 117.5° | 211.3 | 227.5 | 243.7 | 247.8 | 330.2 | 440.0 | 494.9 | 598.2 | 804.8 | 959.8  | 977.8  |
| 120°   | 225.5 | 240.7 | 255.9 | 259.7 | 335.0 | 435.5 | 485.7 | 580.2 | 769.0 | 910.5  | 928.0  |
| 122.5° | 239.2 | 254.6 | 269.9 | 273.8 | 342.0 | 433.1 | 478.7 | 563.7 | 733.7 | 861.2  | 878.5  |
| 125°   | 260.3 | 274.4 | 288.4 | 291.9 | 351.6 | 431.3 | 471.1 | 543.3 | 687.7 | 796.0  | 811.9  |
| 127.5° | 277.5 | 291.7 | 305.8 | 309.3 | 361.1 | 430.2 | 464.7 | 526.7 | 650.7 | 743.7  | 757.1  |
| 130°   | 286.7 | 301.9 | 317.1 | 321.0 | 368.0 | 430.8 | 462.2 | 517.4 | 627.8 | 710.6  | 722.9  |
| 132.5° | 296.2 | 311.4 | 326.6 | 330.5 | 373.7 | 431.3 | 460.0 | 509.4 | 608.3 | 682.4  | 693.5  |
| 135°   | 310.2 | 324.1 | 338.0 | 341.5 | 379.8 | 430.9 | 456.4 | 497.8 | 580.5 | 642.6  | 652.2  |
| 137.5° | 324.7 | 338.4 | 352.1 | 355.6 | 389.0 | 433.5 | 455.8 | 490.7 | 560.7 | 613.2  | 621.0  |
| 140°   | 336.6 | 349.3 | 361.9 | 365.1 | 394.6 | 433.9 | 453.6 | 483.8 | 544.2 | 589.5  | 596.9  |
| 142.5° | 345.8 | 357.5 | 369.1 | 372.1 | 399.3 | 435.5 | 453.6 | 480.2 | 533.2 | 573.0  | 579.4  |
| 145°   | 359.8 | 370.1 | 380.3 | 382.8 | 405.4 | 435.5 | 450.5 | 472.3 | 515.6 | 548.2  | 553.0  |
| 147.5° | 374.0 | 383.8 | 393.8 | 396.3 | 414.4 | 438.5 | 450.5 | 467.6 | 501.8 | 527.4  | 531.3  |
| 150°   | 383.1 | 392.1 | 401.1 | 403.4 | 419.1 | 440.1 | 450.5 | 465.0 | 493.8 | 515.4  | 518.6  |
| 152.5° | 392.6 | 399.4 | 406.3 | 407.9 | 422.2 | 441.0 | 450.5 | 462.9 | 487.5 | 506.0  | 508.3  |
| 155°   | 406.8 | 411.8 | 416.7 | 418.0 | 428.9 | 443.3 | 450.5 | 460.3 | 479.9 | 494.6  | 496.2  |
| 157.5° | 417.1 | 422.1 | 427.0 | 428.2 | 435.6 | 445.6 | 450.5 | 458.1 | 473.4 | 484.8  | 485.9  |
| 160°   | 424.1 | 428.0 | 431.8 | 432.7 | 438.7 | 446.6 | 450.5 | 457.0 | 470.2 | 480.0  | 480.6  |
| 162.5° | 431.3 | 434.1 | 437.0 | 437.7 | 441.9 | 447.7 | 450.5 | 456.1 | 467.0 | 475.3  | 475.9  |
| 165°   | 438.9 | 441.4 | 444.0 | 444.7 | 446.7 | 449.2 | 450.5 | 454.5 | 462.4 | 468.3  | 469.0  |
| 167.5° | 445.9 | 447.1 | 448.4 | 448.7 | 450.3 | 452.5 | 453.6 | 456.2 | 461.4 | 465.2  | 465.5  |
| 170°   | 450.5 | 451.7 | 453.0 | 453.3 | 453.4 | 453.5 | 453.6 | 456.2 | 461.4 | 465.2  | 465.2  |
| 172.5° | 453.0 | 453.3 | 453.5 | 453.6 | 453.6 | 453.6 | 453.6 | 455.7 | 459.7 | 462.8  | 462.6  |
| 175°   | 456.4 | 456.4 | 456.4 | 456.4 | 455.5 | 454.2 | 453.6 | 454.9 | 457.4 | 459.4  | 459.4  |
| 177.5° | 456.4 | 456.4 | 456.4 | 456.4 | 455.7 | 454.7 | 454.2 | 455.2 | 457.2 | 458.8  | 458.5  |
| 180°   | 456.4 | 456.4 | 456.4 | 456.4 | 456.4 | 456.4 | 456.4 | 456.4 | 456.4 | 456.4  | 456.4  |

TEST NUMBER: P937218

CATALOG NUMBER: SQ4-FB-075U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 406.0  | 406.0  |
| 2.5°   | 433.4  | 430.8  |
| 5°     | 557.4  | 560.1  |
| 7.5°   | 750.7  | 749.3  |
| 10°    | 933.5  | 945.1  |
| 12.5°  | 1066.5 | 1069.2 |
| 15°    | 1147.6 | 1152.7 |
| 17.5°  | 1178.9 | 1180.2 |
| 20°    | 1180.2 | 1177.5 |
| 22.5°  | 1165.8 | 1163.2 |
| 25°    | 1148.8 | 1147.6 |
| 27.5°  | 1133.1 | 1134.4 |
| 30°    | 1126.6 | 1130.6 |
| 32.5°  | 1126.6 | 1133.1 |
| 35°    | 1129.3 | 1135.8 |
| 37.5°  | 1127.9 | 1135.8 |
| 40°    | 1122.8 | 1131.9 |
| 42.5°  | 1108.3 | 1114.9 |
| 45°    | 1086.2 | 1094.0 |
| 47.5°  | 1057.5 | 1062.7 |
| 50°    | 1020.9 | 1026.1 |
| 52.5°  | 975.2  | 976.5  |
| 55°    | 920.3  | 925.6  |
| 57.5°  | 861.6  | 862.9  |
| 60°    | 796.3  | 800.3  |
| 62.5°  | 727.2  | 727.2  |
| 65°    | 654.1  | 656.6  |
| 67.5°  | 578.4  | 584.9  |
| 70°    | 501.3  | 502.6  |
| 72.5°  | 425.6  | 425.6  |
| 75°    | 347.3  | 348.6  |
| 77.5°  | 272.9  | 272.9  |
| 80°    | 202.3  | 203.6  |
| 82.5°  | 139.7  | 142.3  |
| 85°    | 87.4   | 87.4   |
| 87.5°  | 40.5   | 36.6   |
| 90°    | 11.7   | 11.7   |
| 92.5°  | 46.6   | 37.3   |
| 95°    | 162.5  | 134.5  |
| 97.5°  | 389.4  | 336.0  |
| 100°   | 561.0  | 497.4  |
| 102.5° | 729.7  | 675.3  |
| 105°   | 945.0  | 915.8  |
| 107.5° | 1086.0 | 1093.1 |
| 110°   | 1139.8 | 1170.3 |



TEST NUMBER: P937218

CATALOG NUMBER: SQ4-FB-075U-100D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 1144.6 | 1191.4 |
| 115°   | 1114.3 | 1179.2 |
| 117.5° | 1049.8 | 1121.9 |
| 120°   | 998.0  | 1067.9 |
| 122.5° | 947.5  | 1016.6 |
| 125°   | 875.5  | 939.0  |
| 127.5° | 810.7  | 864.3  |
| 130°   | 772.5  | 822.0  |
| 132.5° | 737.8  | 782.2  |
| 135°   | 690.4  | 728.6  |
| 137.5° | 652.3  | 683.6  |
| 140°   | 626.2  | 655.4  |
| 142.5° | 604.5  | 629.7  |
| 145°   | 572.1  | 591.1  |
| 147.5° | 547.2  | 563.0  |
| 150°   | 531.4  | 544.3  |
| 152.5° | 518.0  | 527.7  |
| 155°   | 502.6  | 509.0  |
| 157.5° | 490.4  | 494.9  |
| 160°   | 483.1  | 485.7  |
| 162.5° | 478.4  | 480.9  |
| 165°   | 471.6  | 474.1  |
| 167.5° | 466.6  | 467.7  |
| 170°   | 465.2  | 465.2  |
| 172.5° | 461.6  | 460.6  |
| 175°   | 459.4  | 459.4  |
| 177.5° | 457.4  | 456.4  |
| 180°   | 456.4  | 456.4  |

TEST NUMBER: P937218

CATALOG NUMBER: SQ4-FB-075U-100D-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 | 5.74             | 6.65  | 6.67  | 7.61  | 8.86  | 18.88          | 19.79 | 19.81 | 20.75 | 22.00 |
|                 | 3H   | 6.45             | 7.27  | 7.39  | 8.24  | 9.51  | 20.70          | 21.53 | 21.65 | 22.49 | 23.76 |
|                 | 4H   | 6.75             | 7.53  | 7.71  | 8.50  | 9.78  | 21.34          | 22.12 | 22.30 | 23.09 | 24.37 |
|                 | 6H   | 7.00             | 7.72  | 7.97  | 8.70  | 9.99  | 21.76          | 22.48 | 22.74 | 23.46 | 24.75 |
|                 | 8H   | 7.07             | 7.76  | 8.05  | 8.75  | 10.04 | 21.88          | 22.56 | 22.86 | 23.56 | 24.85 |
|                 | 12H  | 7.09             | 7.74  | 8.08  | 8.73  | 10.05 | 21.94          | 22.59 | 22.93 | 23.58 | 24.90 |
| 4H              | 2H   | 12.93            | 13.71 | 13.90 | 14.69 | 15.96 | 19.16          | 19.94 | 20.12 | 20.91 | 22.19 |
|                 | 3H   | 14.51            | 15.16 | 15.49 | 16.16 | 17.46 | 21.19          | 21.85 | 22.17 | 22.85 | 24.14 |
|                 | 4H   | 14.61            | 15.20 | 15.59 | 16.20 | 17.51 | 21.95          | 22.55 | 22.94 | 23.55 | 24.86 |
|                 | 6H   | 14.62            | 15.14 | 15.62 | 16.16 | 17.47 | 22.48          | 23.00 | 23.48 | 24.02 | 25.33 |
|                 | 8H   | 14.60            | 15.08 | 15.60 | 16.09 | 17.42 | 22.64          | 23.12 | 23.64 | 24.13 | 25.46 |
|                 | 12H  | 14.56            | 15.00 | 15.58 | 16.02 | 17.36 | 22.73          | 23.16 | 23.75 | 24.19 | 25.53 |
| 8H              | 4H   | 16.05            | 16.53 | 17.05 | 17.54 | 18.87 | 22.02          | 22.50 | 23.02 | 23.51 | 24.84 |
|                 | 6H   | 16.29            | 16.69 | 17.32 | 17.74 | 19.07 | 22.64          | 23.04 | 23.66 | 24.09 | 25.42 |
|                 | 8H   | 16.31            | 16.66 | 17.34 | 17.70 | 19.05 | 22.85          | 23.20 | 23.88 | 24.24 | 25.59 |
|                 | 12H  | 16.28            | 16.59 | 17.32 | 17.63 | 19.01 | 22.99          | 23.30 | 24.03 | 24.33 | 25.72 |
| 12H             | 4H   | 16.19            | 16.62 | 17.21 | 17.65 | 18.99 | 21.97          | 22.41 | 22.99 | 23.44 | 24.77 |
|                 | 6H   | 16.55            | 16.90 | 17.58 | 17.94 | 19.28 | 22.62          | 22.98 | 23.66 | 24.01 | 25.36 |
|                 | 8H   | 16.62            | 16.93 | 17.66 | 17.96 | 19.35 | 22.85          | 23.16 | 23.89 | 24.19 | 25.58 |

END OF REPORT