

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: P938105

Luminaire Tested: SQ4-FB-125U-100D-B50-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P938105  
REPORT IS A COMBINATION OF REPORTS P933591 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-125U-100D-B50-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

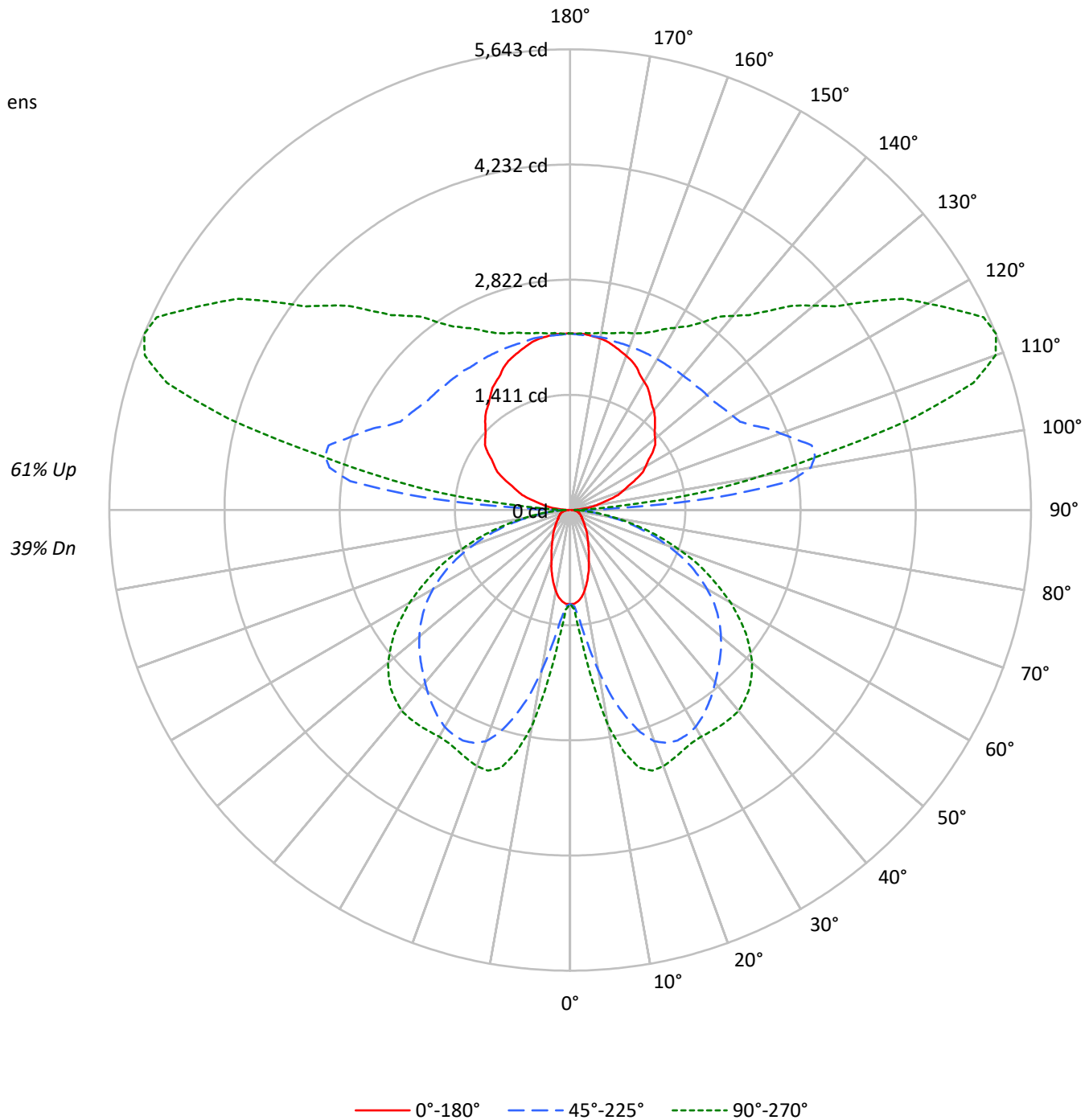
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22927.8 lumens  
Efficiency: N/A  
Efficacy: 118.7 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): 193.2  
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: P938105  
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### Luminous Intensity Polar Plot





TEST NUMBER: P938105

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**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   | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 | 39 |    |    |    | 39 |
| 1   | 95  | 90  | 86  | 83  | 86 | 82 | 79 | 76 | 67 | 65 | 62 | 53 | 51 | 50 | 40 | 39 | 38 | 32 |    |    |    | 32 |
| 2   | 86  | 78  | 72  | 67  | 78 | 71 | 66 | 61 | 58 | 54 | 51 | 46 | 43 | 41 | 35 | 33 | 31 | 26 |    |    |    | 26 |
| 3   | 78  | 68  | 61  | 55  | 71 | 62 | 56 | 51 | 51 | 46 | 42 | 40 | 37 | 34 | 30 | 28 | 26 | 21 |    |    |    | 21 |
| 4   | 71  | 60  | 52  | 46  | 64 | 55 | 48 | 42 | 45 | 40 | 35 | 35 | 32 | 29 | 27 | 24 | 22 | 18 |    |    |    | 18 |
| 5   | 65  | 53  | 45  | 39  | 59 | 49 | 41 | 36 | 40 | 34 | 30 | 31 | 27 | 24 | 24 | 21 | 19 | 15 |    |    |    | 15 |
| 6   | 60  | 47  | 39  | 33  | 54 | 43 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 21 | 21 | 18 | 16 | 13 |    |    |    | 13 |
| 7   | 55  | 43  | 35  | 29  | 50 | 39 | 32 | 27 | 32 | 26 | 23 | 25 | 21 | 18 | 19 | 16 | 14 | 11 |    |    |    | 11 |
| 8   | 51  | 38  | 31  | 25  | 46 | 35 | 28 | 23 | 29 | 24 | 20 | 23 | 19 | 16 | 18 | 15 | 13 | 10 |    |    |    | 10 |
| 9   | 47  | 35  | 27  | 22  | 43 | 32 | 25 | 21 | 26 | 21 | 17 | 21 | 17 | 14 | 16 | 13 | 11 | 9  |    |    |    | 9  |
| 10  | 44  | 32  | 25  | 20  | 40 | 29 | 23 | 18 | 24 | 19 | 16 | 19 | 15 | 13 | 15 | 12 | 10 | 8  |    |    |    | 8  |

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

|     | 0°   | 45°  | 90°   |
|-----|------|------|-------|
| 0°  | 3561 | 3561 | 3561  |
| 5°  | 3480 | 4117 | 4787  |
| 10° | 3158 | 6003 | 7935  |
| 15° | 2685 | 7844 | 9582  |
| 20° | 2187 | 9093 | 9766  |
| 25° | 1825 | 9517 | 9567  |
| 30° | 1539 | 9580 | 9549  |
| 35° | 1362 | 9423 | 9796  |
| 40° | 1188 | 9219 | 10051 |
| 45° | 1076 | 9070 | 10091 |
| 50° | 988  | 8937 | 9924  |
| 55° | 947  | 8741 | 9484  |
| 60° | 971  | 8361 | 8789  |
| 65° | 1012 | 7781 | 7835  |
| 70° | 1080 | 6791 | 6619  |
| 75° | 1202 | 5542 | 5166  |
| 80° | 1322 | 3848 | 3480  |
| 85° | 1199 | 2045 | 1782  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10091 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 148.9   | 0.6       |
| 10°-20°   | 660.1   | 2.9       |
| 20°-30°   | 1154.5  | 5.0       |
| 30°-40°   | 1486.2  | 6.5       |
| 40°-50°   | 1660.1  | 7.2       |
| 50°-60°   | 1590.0  | 6.9       |
| 60°-70°   | 1260.1  | 5.5       |
| 70°-80°   | 740.9   | 3.2       |
| 80°-90°   | 214.1   | 0.9       |
| 90°-100°  | 1053.7  | 4.6       |
| 100°-110° | 2770.2  | 12.1      |
| 110°-120° | 2872.4  | 12.5      |
| 120°-130° | 2304.0  | 10.0      |
| 130°-140° | 1807.8  | 7.9       |
| 140°-150° | 1387.6  | 6.1       |
| 150°-160° | 999.3   | 4.4       |
| 160°-170° | 611.4   | 2.7       |
| 170°-180° | 206.6   | 0.9       |
| 0°-30°    | 1963.5  | 8.6       |
| 0°-40°    | 3449.8  | 15.0      |
| 0°-60°    | 6699.8  | 29.2      |
| 0°-90°    | 8914.9  | 38.9      |
| 90°-120°  | 6696.3  | 29.2      |
| 90°-150°  | 12195.7 | 53.2      |
| 90°-180°  | 14013.0 | 61.1      |
| 0°-180°   | 22927.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1151 | 1151  | 1151 | 1151  | 1151 |      |
| 5°   | 1122 | 1203  | 1355 | 1533  | 1588 | 104  |
| 15°  | 840  | 1551  | 2614 | 3169  | 3269 | 234  |
| 25°  | 537  | 1758  | 3113 | 3250  | 3254 | 247  |
| 35°  | 363  | 1681  | 2932 | 3098  | 3221 | 227  |
| 45°  | 248  | 1340  | 2591 | 2969  | 3102 | 192  |
| 55°  | 178  | 851   | 2199 | 2554  | 2625 | 162  |
| 65°  | 141  | 452   | 1632 | 1836  | 1862 | 139  |
| 75°  | 104  | 278   | 896  | 985   | 988  | 109  |
| 85°  | 37   | 85    | 222  | 244   | 248  | 39   |
| 90°  | 14   | 41    | 110  | 55    | 55   | 14   |
| 95°  | 139  | 546   | 1815 | 936   | 637  | 155  |
| 105° | 499  | 756   | 3062 | 4650  | 4338 | 529  |
| 115° | 886  | 1076  | 2453 | 4893  | 5585 | 876  |
| 125° | 1233 | 1383  | 2231 | 3770  | 4448 | 1095 |
| 135° | 1470 | 1618  | 2162 | 3044  | 3451 | 1137 |
| 145° | 1705 | 1814  | 2134 | 2597  | 2800 | 1068 |
| 155° | 1927 | 1980  | 2134 | 2343  | 2411 | 885  |
| 165° | 2079 | 2106  | 2134 | 2218  | 2246 | 587  |
| 175° | 2162 | 2162  | 2149 | 2176  | 2176 | 205  |
| 180° | 2162 | 2162  | 2162 | 2162  | 2162 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 | 1151.3 |
| 2.5°   | 1151.3 | 1151.3 | 1158.7 | 1162.5 | 1169.8 | 1173.6 | 1180.9 | 1188.3 | 1210.6 | 1214.3 | 1221.7 |
| 5°     | 1121.7 | 1136.5 | 1184.7 | 1203.2 | 1255.0 | 1325.3 | 1355.0 | 1403.1 | 1503.0 | 1532.6 | 1551.1 |
| 7.5°   | 1077.3 | 1110.6 | 1229.1 | 1258.7 | 1388.2 | 1573.3 | 1651.1 | 1754.7 | 1914.0 | 1991.7 | 2054.6 |
| 10°    | 1006.9 | 1077.3 | 1288.3 | 1358.6 | 1569.7 | 1851.0 | 1995.4 | 2139.8 | 2380.4 | 2487.7 | 2528.4 |
| 12.5°  | 929.2  | 1043.9 | 1351.2 | 1447.5 | 1751.1 | 2161.9 | 2335.9 | 2495.2 | 2769.1 | 2913.5 | 2935.7 |
| 15°    | 840.3  | 995.8  | 1410.4 | 1551.1 | 1943.6 | 2421.1 | 2613.6 | 2809.8 | 3065.3 | 3168.9 | 3194.8 |
| 17.5°  | 762.6  | 958.8  | 1466.0 | 1614.0 | 2091.6 | 2654.3 | 2850.6 | 3013.5 | 3220.7 | 3291.0 | 3309.6 |
| 20°    | 666.3  | 899.6  | 1503.0 | 1695.5 | 2247.1 | 2824.6 | 3013.5 | 3139.3 | 3279.9 | 3324.4 | 3331.8 |
| 22.5°  | 596.0  | 836.7  | 1525.2 | 1725.1 | 2350.8 | 2928.3 | 3087.4 | 3187.5 | 3283.7 | 3298.5 | 3302.2 |
| 25°    | 536.8  | 766.3  | 1521.5 | 1758.4 | 2439.6 | 2991.2 | 3113.4 | 3187.5 | 3242.9 | 3250.3 | 3250.3 |
| 27.5°  | 481.3  | 688.5  | 1506.7 | 1765.8 | 2506.3 | 3006.0 | 3102.3 | 3154.1 | 3180.0 | 3194.8 | 3194.8 |
| 30°    | 433.1  | 614.6  | 1469.6 | 1751.1 | 2535.9 | 2991.2 | 3068.9 | 3094.9 | 3120.8 | 3143.0 | 3154.1 |
| 32.5°  | 396.1  | 544.1  | 1414.2 | 1721.5 | 2539.5 | 2954.2 | 3009.7 | 3024.6 | 3061.6 | 3113.4 | 3131.9 |
| 35°    | 362.8  | 473.8  | 1351.2 | 1680.7 | 2517.3 | 2894.9 | 2932.0 | 2946.8 | 3020.8 | 3098.5 | 3124.5 |
| 37.5°  | 329.5  | 422.1  | 1269.8 | 1610.4 | 2484.1 | 2824.6 | 2850.6 | 2876.4 | 2991.2 | 3083.8 | 3113.4 |
| 40°    | 296.2  | 377.6  | 1173.6 | 1532.6 | 2432.2 | 2739.5 | 2761.7 | 2802.4 | 2954.2 | 3061.6 | 3091.2 |
| 42.5°  | 270.2  | 340.6  | 1069.9 | 1451.2 | 2365.5 | 2643.2 | 2676.6 | 2735.8 | 2909.8 | 3024.6 | 3057.8 |
| 45°    | 248.1  | 303.6  | 958.8  | 1340.1 | 2280.5 | 2543.3 | 2591.4 | 2672.8 | 2857.9 | 2969.0 | 2998.6 |
| 47.5°  | 225.8  | 277.7  | 844.1  | 1225.4 | 2187.9 | 2443.3 | 2506.3 | 2598.8 | 2787.6 | 2894.9 | 2920.9 |
| 50°    | 207.3  | 251.7  | 729.3  | 1103.2 | 2088.0 | 2335.9 | 2410.0 | 2506.3 | 2698.8 | 2798.7 | 2832.1 |
| 52.5°  | 192.5  | 229.5  | 622.0  | 981.1  | 1973.2 | 2224.9 | 2310.1 | 2410.0 | 2591.4 | 2687.7 | 2709.9 |
| 55°    | 177.7  | 211.0  | 529.4  | 851.4  | 1854.7 | 2106.5 | 2199.0 | 2295.2 | 2473.0 | 2554.4 | 2569.2 |
| 57.5°  | 170.3  | 196.2  | 451.7  | 729.3  | 1728.8 | 1973.2 | 2076.8 | 2165.7 | 2332.3 | 2395.1 | 2410.0 |
| 60°    | 159.2  | 185.1  | 392.4  | 625.6  | 1591.8 | 1847.3 | 1936.2 | 2025.0 | 2165.7 | 2217.5 | 2228.6 |
| 62.5°  | 148.0  | 177.7  | 348.0  | 525.7  | 1451.2 | 1699.2 | 1788.0 | 1869.5 | 1988.0 | 2025.0 | 2039.8 |
| 65°    | 140.7  | 170.3  | 314.7  | 451.7  | 1306.9 | 1543.7 | 1632.5 | 1703.0 | 1799.2 | 1836.2 | 1843.6 |
| 67.5°  | 133.3  | 162.9  | 288.8  | 388.7  | 1162.5 | 1388.2 | 1454.9 | 1521.5 | 1595.6 | 1632.5 | 1636.3 |
| 70°    | 122.2  | 155.5  | 266.6  | 344.3  | 1014.3 | 1210.6 | 1266.1 | 1336.5 | 1395.7 | 1414.2 | 1425.3 |
| 72.5°  | 114.8  | 144.4  | 251.7  | 310.9  | 862.5  | 1040.3 | 1092.1 | 1132.8 | 1184.7 | 1203.2 | 1203.2 |
| 75°    | 103.7  | 129.5  | 237.0  | 277.7  | 707.0  | 851.4  | 895.9  | 936.6  | 977.3  | 984.7  | 973.6  |
| 77.5°  | 92.6   | 114.8  | 203.6  | 233.2  | 551.6  | 673.8  | 710.8  | 733.0  | 766.3  | 773.7  | 777.5  |
| 80°    | 77.7   | 99.9   | 159.2  | 181.4  | 399.8  | 496.0  | 522.0  | 540.5  | 570.1  | 570.1  | 577.5  |
| 82.5°  | 59.2   | 77.7   | 114.8  | 129.5  | 270.2  | 340.6  | 362.8  | 373.9  | 392.4  | 392.4  | 392.4  |
| 85°    | 37.0   | 48.1   | 74.1   | 85.2   | 162.9  | 207.3  | 222.1  | 225.8  | 240.6  | 244.3  | 244.3  |
| 87.5°  | 18.5   | 25.9   | 48.1   | 51.8   | 85.2   | 107.3  | 107.3  | 114.8  | 114.8  | 111.1  | 107.3  |
| 90°    | 14.5   | 26.1   | 37.7   | 40.6   | 63.8   | 94.7   | 110.2  | 98.0   | 73.5   | 55.1   | 55.1   |
| 92.5°  | 58.0   | 156.6  | 255.4  | 280.0  | 393.7  | 545.2  | 620.9  | 544.1  | 390.7  | 275.6  | 264.7  |
| 95°    | 139.3  | 319.8  | 500.3  | 545.5  | 968.6  | 1532.8 | 1814.9 | 1619.5 | 1228.8 | 935.8  | 902.5  |
| 97.5°  | 240.8  | 400.0  | 559.4  | 599.2  | 1304.7 | 2245.4 | 2715.8 | 2592.3 | 2345.4 | 2160.2 | 2096.9 |
| 100°   | 319.1  | 463.6  | 608.0  | 644.2  | 1427.1 | 2471.0 | 2992.9 | 3002.0 | 3020.0 | 3033.5 | 2958.3 |
| 102.5° | 385.9  | 520.7  | 655.4  | 689.1  | 1483.2 | 2541.9 | 3071.3 | 3228.6 | 3543.2 | 3779.2 | 3714.8 |
| 105°   | 499.0  | 613.2  | 727.3  | 755.9  | 1524.8 | 2549.9 | 3062.5 | 3415.2 | 4120.6 | 4649.6 | 4615.0 |
| 107.5° | 615.1  | 721.5  | 827.9  | 854.5  | 1532.5 | 2436.5 | 2888.5 | 3380.4 | 4364.3 | 5102.3 | 5110.7 |
| 110°   | 693.5  | 789.5  | 885.6  | 909.6  | 1520.8 | 2335.8 | 2743.3 | 3293.4 | 4393.3 | 5218.4 | 5254.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 770.4  | 861.9  | 953.4  | 976.3  | 1521.3 | 2248.0 | 2611.4 | 3174.3 | 4300.0 | 5144.4 | 5199.9 |
| 115°   | 886.4  | 970.8  | 1055.3 | 1076.4 | 1535.4 | 2147.3 | 2453.2 | 2995.5 | 4080.0 | 4893.4 | 4970.3 |
| 117.5° | 1001.1 | 1077.7 | 1154.5 | 1173.7 | 1563.9 | 2084.2 | 2344.4 | 2833.8 | 3812.6 | 4546.6 | 4631.9 |
| 120°   | 1067.7 | 1139.9 | 1212.2 | 1230.3 | 1587.1 | 2063.0 | 2300.9 | 2748.1 | 3642.4 | 4313.1 | 4396.0 |
| 122.5° | 1133.0 | 1205.9 | 1278.7 | 1297.0 | 1620.5 | 2051.9 | 2267.6 | 2670.2 | 3475.5 | 4079.5 | 4161.3 |
| 125°   | 1233.2 | 1299.6 | 1366.0 | 1382.6 | 1665.5 | 2042.7 | 2231.2 | 2573.3 | 3257.4 | 3770.5 | 3845.7 |
| 127.5° | 1314.4 | 1381.5 | 1448.5 | 1465.3 | 1710.4 | 2037.3 | 2200.8 | 2494.4 | 3081.8 | 3522.4 | 3585.9 |
| 130°   | 1357.9 | 1430.1 | 1502.3 | 1520.4 | 1743.3 | 2040.6 | 2189.2 | 2450.6 | 2973.6 | 3365.8 | 3424.4 |
| 132.5° | 1402.9 | 1475.1 | 1547.4 | 1565.4 | 1769.9 | 2042.7 | 2179.0 | 2413.1 | 2881.2 | 3232.3 | 3284.9 |
| 135°   | 1469.6 | 1535.4 | 1601.2 | 1617.6 | 1799.0 | 2040.8 | 2161.6 | 2357.7 | 2749.7 | 3043.7 | 3089.0 |
| 137.5° | 1537.8 | 1602.9 | 1668.0 | 1684.3 | 1842.4 | 2053.3 | 2158.8 | 2324.4 | 2655.8 | 2904.4 | 2941.4 |
| 140°   | 1594.3 | 1654.3 | 1714.3 | 1729.3 | 1869.0 | 2055.4 | 2148.6 | 2291.7 | 2577.9 | 2792.7 | 2827.3 |
| 142.5° | 1637.9 | 1693.3 | 1748.8 | 1762.6 | 1891.3 | 2062.8 | 2148.6 | 2274.3 | 2525.8 | 2714.4 | 2744.2 |
| 145°   | 1704.6 | 1753.0 | 1801.4 | 1813.5 | 1920.3 | 2062.8 | 2134.1 | 2236.9 | 2442.6 | 2596.8 | 2619.4 |
| 147.5° | 1771.3 | 1818.4 | 1865.5 | 1877.2 | 1962.9 | 2077.0 | 2134.1 | 2215.0 | 2376.8 | 2498.2 | 2516.8 |
| 150°   | 1814.9 | 1857.4 | 1900.0 | 1910.7 | 1985.1 | 2084.4 | 2134.1 | 2202.5 | 2339.1 | 2441.6 | 2456.7 |
| 152.5° | 1859.9 | 1892.1 | 1924.4 | 1932.4 | 1999.7 | 2089.3 | 2134.1 | 2192.5 | 2309.1 | 2396.6 | 2408.1 |
| 155°   | 1926.6 | 1950.5 | 1974.3 | 1980.3 | 2031.5 | 2099.9 | 2134.1 | 2180.5 | 2273.4 | 2342.9 | 2350.5 |
| 157.5° | 1976.0 | 1999.1 | 2022.4 | 2028.2 | 2063.5 | 2110.6 | 2134.1 | 2170.1 | 2242.3 | 2296.5 | 2301.8 |
| 160°   | 2009.3 | 2027.3 | 2045.5 | 2049.9 | 2078.0 | 2115.4 | 2134.1 | 2165.0 | 2226.9 | 2273.4 | 2276.4 |
| 162.5° | 2042.7 | 2056.2 | 2069.7 | 2073.1 | 2093.5 | 2120.6 | 2134.1 | 2160.2 | 2212.5 | 2251.6 | 2254.5 |
| 165°   | 2078.9 | 2091.1 | 2103.4 | 2106.5 | 2115.7 | 2127.9 | 2134.1 | 2152.8 | 2190.1 | 2218.2 | 2221.2 |
| 167.5° | 2112.3 | 2118.1 | 2123.9 | 2125.3 | 2133.1 | 2143.4 | 2148.6 | 2160.8 | 2185.3 | 2203.7 | 2205.0 |
| 170°   | 2134.1 | 2139.9 | 2145.7 | 2147.1 | 2147.5 | 2148.2 | 2148.6 | 2160.8 | 2185.3 | 2203.7 | 2203.7 |
| 172.5° | 2145.7 | 2147.0 | 2148.3 | 2148.6 | 2148.6 | 2148.6 | 2148.6 | 2158.3 | 2177.6 | 2192.1 | 2191.0 |
| 175°   | 2161.6 | 2161.6 | 2161.6 | 2161.6 | 2157.3 | 2151.5 | 2148.6 | 2154.7 | 2167.0 | 2176.1 | 2176.1 |
| 177.5° | 2161.6 | 2161.6 | 2161.6 | 2161.6 | 2158.3 | 2153.7 | 2151.5 | 2156.3 | 2165.9 | 2173.2 | 2171.9 |
| 180°   | 2161.6 | 2161.6 | 2161.6 | 2161.6 | 2161.6 | 2161.6 | 2161.6 | 2161.6 | 2161.6 | 2161.6 | 2161.6 |



TEST NUMBER: P938105  
 CATALOG NUMBER: SQ4-FB-125U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 1151.3 | 1151.3 |
| 2.5°   | 1229.1 | 1221.7 |
| 5°     | 1580.8 | 1588.2 |
| 7.5°   | 2128.7 | 2124.9 |
| 10°    | 2647.0 | 2680.2 |
| 12.5°  | 3024.6 | 3032.0 |
| 15°    | 3254.1 | 3268.9 |
| 17.5°  | 3342.9 | 3346.6 |
| 20°    | 3346.6 | 3339.2 |
| 22.5°  | 3305.9 | 3298.5 |
| 25°    | 3257.8 | 3254.1 |
| 27.5°  | 3213.3 | 3217.1 |
| 30°    | 3194.8 | 3206.0 |
| 32.5°  | 3194.8 | 3213.3 |
| 35°    | 3202.2 | 3220.7 |
| 37.5°  | 3198.5 | 3220.7 |
| 40°    | 3183.7 | 3209.6 |
| 42.5°  | 3143.0 | 3161.5 |
| 45°    | 3080.1 | 3102.3 |
| 47.5°  | 2998.6 | 3013.5 |
| 50°    | 2894.9 | 2909.8 |
| 52.5°  | 2765.4 | 2769.1 |
| 55°    | 2609.9 | 2624.7 |
| 57.5°  | 2443.3 | 2447.0 |
| 60°    | 2258.2 | 2269.3 |
| 62.5°  | 2062.0 | 2062.0 |
| 65°    | 1854.7 | 1862.1 |
| 67.5°  | 1640.0 | 1658.5 |
| 70°    | 1421.5 | 1425.3 |
| 72.5°  | 1206.8 | 1206.8 |
| 75°    | 984.7  | 988.5  |
| 77.5°  | 773.7  | 773.7  |
| 80°    | 573.8  | 577.5  |
| 82.5°  | 396.1  | 403.5  |
| 85°    | 248.1  | 248.1  |
| 87.5°  | 114.8  | 103.7  |
| 90°    | 55.1   | 55.1   |
| 92.5°  | 220.8  | 177.0  |
| 95°    | 769.7  | 636.9  |
| 97.5°  | 1844.2 | 1591.4 |
| 100°   | 2657.1 | 2356.0 |
| 102.5° | 3456.8 | 3199.0 |
| 105°   | 4476.4 | 4337.8 |
| 107.5° | 5144.2 | 5177.7 |
| 110°   | 5398.9 | 5543.3 |





TEST NUMBER: P938105  
CATALOG NUMBER: SQ4-FB-125U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 5421.6 | 5643.4 |
| 115°   | 5277.8 | 5585.4 |
| 117.5° | 4973.0 | 5314.1 |
| 120°   | 4727.3 | 5058.7 |
| 122.5° | 4488.2 | 4815.1 |
| 125°   | 4146.9 | 4448.0 |
| 127.5° | 3840.0 | 4094.0 |
| 130°   | 3659.1 | 3893.8 |
| 132.5° | 3495.0 | 3705.2 |
| 135°   | 3270.1 | 3451.3 |
| 137.5° | 3089.8 | 3238.1 |
| 140°   | 2966.0 | 3104.6 |
| 142.5° | 2863.5 | 2982.7 |
| 145°   | 2709.6 | 2799.9 |
| 147.5° | 2591.7 | 2666.5 |
| 150°   | 2517.4 | 2578.0 |
| 152.5° | 2453.9 | 2499.7 |
| 155°   | 2380.9 | 2411.1 |
| 157.5° | 2323.1 | 2344.4 |
| 160°   | 2288.7 | 2300.9 |
| 162.5° | 2266.1 | 2277.7 |
| 165°   | 2233.5 | 2245.8 |
| 167.5° | 2210.1 | 2215.3 |
| 170°   | 2203.7 | 2203.7 |
| 172.5° | 2186.4 | 2181.9 |
| 175°   | 2176.1 | 2176.1 |
| 177.5° | 2166.8 | 2161.6 |
| 180°   | 2161.6 | 2161.6 |



TEST NUMBER: P938105  
 CATALOG NUMBER: SQ4-FB-125U-100D-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 | 4.31             | 5.11  | 5.35  | 6.16  | 7.58  | 17.50          | 18.30 | 18.54 | 19.35 | 20.77 |
|                 | 3H   | 5.01             | 5.73  | 6.06  | 6.79  | 8.23  | 19.34          | 20.06 | 20.39 | 21.12 | 22.56 |
|                 | 4H   | 5.31             | 5.99  | 6.37  | 7.05  | 8.49  | 19.99          | 20.67 | 21.05 | 21.73 | 23.17 |
|                 | 6H   | 5.55             | 6.18  | 6.63  | 7.25  | 8.70  | 20.42          | 21.05 | 21.49 | 22.11 | 23.57 |
|                 | 8H   | 5.62             | 6.22  | 6.70  | 7.30  | 8.75  | 20.54          | 21.14 | 21.62 | 22.22 | 23.67 |
|                 | 12H  | 5.64             | 6.20  | 6.72  | 7.28  | 8.75  | 20.61          | 21.18 | 21.69 | 22.25 | 23.73 |
| 4H              | 2H   | 11.53            | 12.21 | 12.60 | 13.27 | 14.71 | 17.77          | 18.45 | 18.84 | 19.51 | 20.95 |
|                 | 3H   | 13.09            | 13.66 | 14.16 | 14.75 | 16.20 | 19.81          | 20.38 | 20.89 | 21.47 | 22.93 |
|                 | 4H   | 13.18            | 13.70 | 14.26 | 14.78 | 16.26 | 20.58          | 21.10 | 21.66 | 22.18 | 23.66 |
|                 | 6H   | 13.19            | 13.64 | 14.28 | 14.74 | 16.21 | 21.12          | 21.57 | 22.21 | 22.67 | 24.15 |
|                 | 8H   | 13.16            | 13.58 | 14.25 | 14.68 | 16.17 | 21.29          | 21.70 | 22.38 | 22.80 | 24.29 |
|                 | 12H  | 13.11            | 13.50 | 14.22 | 14.60 | 16.10 | 21.38          | 21.76 | 22.49 | 22.87 | 24.36 |
| 8H              | 4H   | 14.62            | 15.04 | 15.71 | 16.14 | 17.63 | 20.64          | 21.06 | 21.73 | 22.15 | 23.64 |
|                 | 6H   | 14.86            | 15.21 | 15.98 | 16.35 | 17.83 | 21.27          | 21.61 | 22.38 | 22.75 | 24.24 |
|                 | 8H   | 14.88            | 15.18 | 16.00 | 16.30 | 17.81 | 21.49          | 21.79 | 22.61 | 22.91 | 24.42 |
|                 | 12H  | 14.84            | 15.11 | 15.97 | 16.23 | 17.77 | 21.63          | 21.90 | 22.76 | 23.02 | 24.56 |
| 12H             | 4H   | 14.76            | 15.14 | 15.87 | 16.25 | 17.75 | 20.59          | 20.97 | 21.70 | 22.07 | 23.57 |
|                 | 6H   | 15.12            | 15.43 | 16.24 | 16.54 | 18.05 | 21.25          | 21.55 | 22.37 | 22.67 | 24.18 |
|                 | 8H   | 15.19            | 15.46 | 16.31 | 16.57 | 18.11 | 21.48          | 21.75 | 22.60 | 22.86 | 24.40 |