

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: P936263

Luminaire Tested: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P936263  
REPORT IS A COMBINATION OF REPORTS P933445 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-6-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

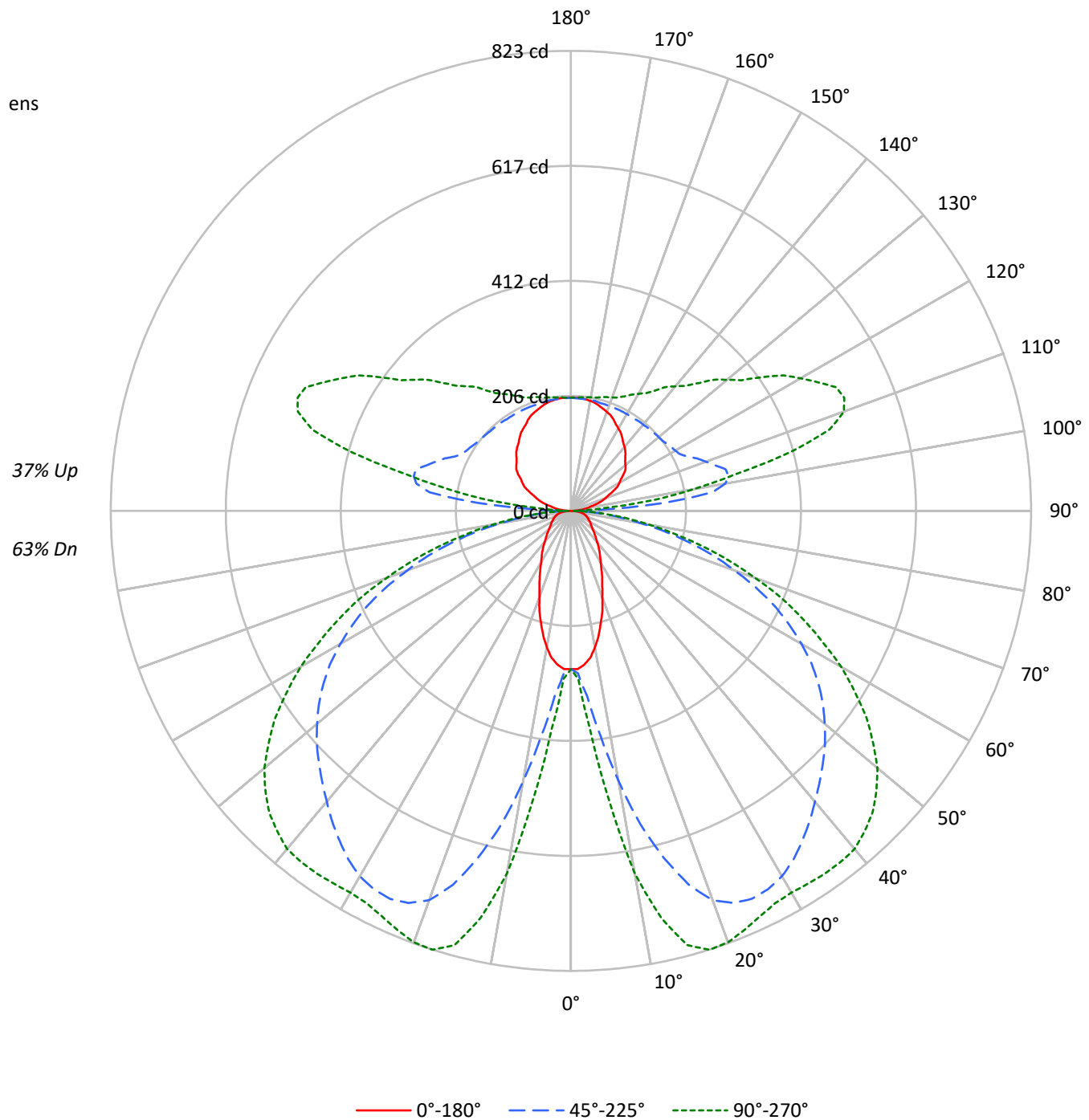
Lumens per Lamp: N/A  
Luminaire Lumens: 3504.8 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Direct

Input Watts (W): 33  
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: P936263

CATALOG NUMBER: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-6-4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P936263

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

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 68 | 68 | 68 |
| 1   | 100 | 95  | 91  | 87  | 93  | 89  | 86  | 82  | 78 | 75 | 73 | 68 | 66 | 64 | 59 | 57 | 56 |
| 2   | 90  | 82  | 76  | 70  | 84  | 77  | 71  | 66  | 68 | 63 | 59 | 59 | 55 | 52 | 51 | 48 | 46 |
| 3   | 82  | 72  | 64  | 57  | 76  | 67  | 60  | 55  | 59 | 53 | 49 | 51 | 47 | 43 | 44 | 41 | 38 |
| 4   | 75  | 63  | 54  | 48  | 69  | 59  | 52  | 46  | 52 | 46 | 41 | 45 | 40 | 37 | 39 | 35 | 32 |
| 5   | 68  | 56  | 47  | 41  | 63  | 52  | 45  | 39  | 46 | 40 | 35 | 40 | 35 | 31 | 35 | 31 | 28 |
| 6   | 63  | 50  | 41  | 35  | 58  | 47  | 39  | 33  | 41 | 35 | 30 | 36 | 31 | 27 | 31 | 27 | 24 |
| 7   | 58  | 45  | 36  | 30  | 54  | 42  | 34  | 29  | 37 | 31 | 26 | 33 | 27 | 23 | 28 | 24 | 21 |
| 8   | 53  | 40  | 32  | 26  | 50  | 38  | 31  | 25  | 34 | 27 | 23 | 30 | 24 | 21 | 26 | 22 | 18 |
| 9   | 50  | 37  | 29  | 23  | 46  | 35  | 27  | 22  | 31 | 25 | 20 | 27 | 22 | 18 | 24 | 19 | 16 |
| 10  | 46  | 34  | 26  | 21  | 43  | 32  | 25  | 20  | 28 | 22 | 18 | 25 | 20 | 16 | 22 | 18 | 15 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1751 | 1751 | 1751 |
| 5°  | 1711 | 2024 | 2355 |
| 10° | 1551 | 2950 | 3903 |
| 15° | 1317 | 3853 | 4714 |
| 20° | 1072 | 4464 | 4804 |
| 25° | 895  | 4670 | 4706 |
| 30° | 753  | 4698 | 4697 |
| 35° | 666  | 4619 | 4818 |
| 40° | 581  | 4516 | 4944 |
| 45° | 525  | 4440 | 4964 |
| 50° | 481  | 4372 | 4881 |
| 55° | 460  | 4273 | 4665 |
| 60° | 471  | 4084 | 4323 |
| 65° | 489  | 3796 | 3853 |
| 70° | 521  | 3309 | 3256 |
| 75° | 574  | 2695 | 2541 |
| 80° | 622  | 1867 | 1712 |
| 85° | 543  | 990  | 876  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4964 cd/sqm

TEST NUMBER: P936263

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.6   | 1.0       |
| 10°-20°   | 162.3  | 4.6       |
| 20°-30°   | 283.9  | 8.1       |
| 30°-40°   | 365.5  | 10.4      |
| 40°-50°   | 408.3  | 11.6      |
| 50°-60°   | 391.0  | 11.2      |
| 60°-70°   | 309.9  | 8.8       |
| 70°-80°   | 182.2  | 5.2       |
| 80°-90°   | 51.4   | 1.5       |
| 90°-100°  | 98.7   | 2.8       |
| 100°-110° | 259.7  | 7.4       |
| 110°-120° | 269.2  | 7.7       |
| 120°-130° | 216.0  | 6.2       |
| 130°-140° | 169.5  | 4.8       |
| 140°-150° | 130.1  | 3.7       |
| 150°-160° | 93.7   | 2.7       |
| 160°-170° | 57.3   | 1.6       |
| 170°-180° | 19.4   | 0.6       |
| <hr/>     |        |           |
| 0°-30°    | 482.9  | 13.8      |
| 0°-40°    | 848.4  | 24.2      |
| 0°-60°    | 1647.7 | 47.0      |
| 0°-90°    | 2191.3 | 62.5      |
| 90°-120°  | 627.7  | 17.9      |
| 90°-150°  | 1143.2 | 32.6      |
| 90°-180°  | 1313.0 | 37.5      |
| 0°-180°   | 3504.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 283 | 283   | 283 | 283   | 283 |      |
| 5°   | 276 | 296   | 333 | 377   | 391 | 25   |
| 15°  | 207 | 382   | 643 | 779   | 804 | 58   |
| 25°  | 132 | 432   | 766 | 799   | 800 | 61   |
| 35°  | 89  | 413   | 721 | 762   | 792 | 56   |
| 45°  | 61  | 330   | 637 | 730   | 763 | 47   |
| 55°  | 44  | 209   | 541 | 628   | 646 | 40   |
| 65°  | 35  | 111   | 402 | 452   | 458 | 34   |
| 75°  | 26  | 68    | 220 | 242   | 243 | 27   |
| 85°  | 9   | 21    | 55  | 60    | 61  | 10   |
| 90°  | 1   | 4     | 10  | 5     | 5   | 2    |
| 95°  | 13  | 51    | 170 | 88    | 60  | 14   |
| 105° | 47  | 71    | 287 | 436   | 407 | 50   |
| 115° | 83  | 101   | 230 | 459   | 524 | 82   |
| 125° | 116 | 130   | 209 | 354   | 417 | 103  |
| 135° | 138 | 152   | 203 | 285   | 324 | 107  |
| 145° | 160 | 170   | 200 | 243   | 262 | 100  |
| 155° | 181 | 186   | 200 | 220   | 226 | 83   |
| 165° | 195 | 197   | 200 | 208   | 210 | 55   |
| 175° | 203 | 203   | 201 | 204   | 204 | 19   |
| 180° | 203 | 203   | 203 | 203   | 203 |      |

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CATALOG NUMBER: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 283.1 | 283.1 | 283.1 | 283.1 | 283.1 | 283.1 | 283.1 | 283.1 | 283.1 | 283.1 | 283.1 |
| 2.5°   | 283.1 | 283.1 | 284.9 | 285.8 | 287.8 | 288.7 | 290.5 | 292.3 | 297.7 | 298.6 | 300.4 |
| 5°     | 275.9 | 279.5 | 291.4 | 295.9 | 308.7 | 325.9 | 333.2 | 345.0 | 369.7 | 376.9 | 381.5 |
| 7.5°   | 264.9 | 273.2 | 302.2 | 309.6 | 341.4 | 387.0 | 406.1 | 431.6 | 470.7 | 489.9 | 505.4 |
| 10°    | 247.7 | 264.9 | 316.8 | 334.2 | 386.1 | 455.2 | 490.8 | 526.3 | 585.5 | 611.8 | 621.8 |
| 12.5°  | 228.6 | 256.8 | 332.3 | 356.0 | 430.7 | 531.7 | 574.5 | 613.7 | 681.0 | 716.5 | 722.0 |
| 15°    | 206.6 | 244.9 | 346.9 | 381.5 | 478.0 | 595.4 | 642.8 | 691.1 | 753.9 | 779.3 | 785.8 |
| 17.5°  | 187.5 | 235.8 | 360.5 | 397.0 | 514.4 | 652.8 | 701.0 | 741.1 | 792.1 | 809.4 | 813.9 |
| 20°    | 163.9 | 221.2 | 369.7 | 417.0 | 552.7 | 694.7 | 741.1 | 772.1 | 806.7 | 817.6 | 819.4 |
| 22.5°  | 146.5 | 205.7 | 375.1 | 424.2 | 578.1 | 720.1 | 759.3 | 783.9 | 807.6 | 811.2 | 812.1 |
| 25°    | 132.1 | 188.5 | 374.2 | 432.5 | 600.0 | 735.6 | 765.7 | 783.9 | 797.5 | 799.3 | 799.3 |
| 27.5°  | 118.4 | 169.4 | 370.6 | 434.3 | 616.4 | 739.3 | 763.0 | 775.7 | 782.1 | 785.8 | 785.8 |
| 30°    | 106.5 | 151.2 | 361.4 | 430.7 | 623.7 | 735.6 | 754.8 | 761.1 | 767.5 | 773.0 | 775.7 |
| 32.5°  | 97.4  | 133.9 | 347.8 | 423.3 | 624.6 | 726.6 | 740.2 | 743.9 | 752.9 | 765.7 | 770.3 |
| 35°    | 89.2  | 116.6 | 332.3 | 413.4 | 619.1 | 712.0 | 721.1 | 724.8 | 743.0 | 762.1 | 768.4 |
| 37.5°  | 81.0  | 103.8 | 312.3 | 396.1 | 610.9 | 694.7 | 701.0 | 707.5 | 735.6 | 758.4 | 765.7 |
| 40°    | 72.9  | 92.9  | 288.7 | 376.9 | 598.2 | 673.7 | 679.2 | 689.2 | 726.6 | 752.9 | 760.2 |
| 42.5°  | 66.4  | 83.7  | 263.1 | 356.9 | 581.7 | 650.1 | 658.2 | 672.8 | 715.6 | 743.9 | 752.0 |
| 45°    | 61.0  | 74.7  | 235.8 | 329.6 | 560.8 | 625.5 | 637.3 | 657.3 | 702.9 | 730.2 | 737.4 |
| 47.5°  | 55.6  | 68.2  | 207.6 | 301.3 | 538.1 | 600.9 | 616.4 | 639.1 | 685.6 | 712.0 | 718.3 |
| 50°    | 51.0  | 61.9  | 179.4 | 271.3 | 513.5 | 574.5 | 592.7 | 616.4 | 663.8 | 688.3 | 696.5 |
| 52.5°  | 47.3  | 56.5  | 153.0 | 241.3 | 485.3 | 547.2 | 568.2 | 592.7 | 637.3 | 661.0 | 666.5 |
| 55°    | 43.7  | 51.9  | 130.2 | 209.4 | 456.1 | 518.0 | 540.8 | 564.5 | 608.2 | 628.2 | 631.9 |
| 57.5°  | 41.9  | 48.2  | 111.1 | 179.4 | 425.2 | 485.3 | 510.8 | 532.6 | 573.6 | 589.1 | 592.7 |
| 60°    | 39.2  | 45.5  | 96.5  | 153.9 | 391.5 | 454.3 | 476.2 | 498.0 | 532.6 | 545.4 | 548.1 |
| 62.5°  | 36.4  | 43.7  | 85.6  | 129.3 | 356.9 | 417.9 | 439.7 | 459.8 | 488.9 | 498.0 | 501.6 |
| 65°    | 34.6  | 41.9  | 77.4  | 111.1 | 321.4 | 379.6 | 401.5 | 418.8 | 442.4 | 451.6 | 453.4 |
| 67.5°  | 32.8  | 40.1  | 71.1  | 95.6  | 285.8 | 341.4 | 357.8 | 374.2 | 392.4 | 401.5 | 402.4 |
| 70°    | 30.1  | 38.2  | 65.5  | 84.6  | 249.5 | 297.7 | 311.4 | 328.7 | 343.2 | 347.8 | 350.6 |
| 72.5°  | 28.2  | 35.5  | 61.9  | 76.5  | 212.2 | 255.8 | 268.6 | 278.6 | 291.4 | 295.9 | 295.9 |
| 75°    | 25.5  | 31.9  | 58.3  | 68.2  | 173.9 | 209.4 | 220.3 | 230.4 | 240.3 | 242.2 | 239.4 |
| 77.5°  | 22.7  | 28.2  | 50.1  | 57.4  | 135.7 | 165.7 | 174.8 | 180.3 | 188.5 | 190.3 | 191.2 |
| 80°    | 19.1  | 24.6  | 39.2  | 44.6  | 98.3  | 122.0 | 128.4 | 133.0 | 140.2 | 140.2 | 142.0 |
| 82.5°  | 14.6  | 19.1  | 28.2  | 31.9  | 66.4  | 83.7  | 89.2  | 92.0  | 96.5  | 96.5  | 96.5  |
| 85°    | 9.1   | 11.9  | 18.2  | 20.9  | 40.1  | 51.0  | 54.7  | 55.6  | 59.2  | 60.1  | 60.1  |
| 87.5°  | 4.5   | 6.3   | 11.9  | 12.8  | 20.9  | 26.4  | 26.4  | 28.2  | 28.2  | 27.3  | 26.4  |
| 90°    | 1.4   | 2.4   | 3.5   | 3.8   | 6.0   | 8.9   | 10.3  | 9.1   | 6.9   | 5.2   | 5.2   |
| 92.5°  | 5.4   | 14.7  | 23.9  | 26.2  | 36.9  | 51.1  | 58.2  | 51.0  | 36.6  | 25.8  | 24.8  |
| 95°    | 13.0  | 30.0  | 46.9  | 51.1  | 90.8  | 143.6 | 170.1 | 151.8 | 115.1 | 87.7  | 84.6  |
| 97.5°  | 22.5  | 37.5  | 52.4  | 56.1  | 122.3 | 210.4 | 254.5 | 242.9 | 219.9 | 202.5 | 196.6 |
| 100°   | 30.0  | 43.4  | 57.0  | 60.4  | 133.8 | 231.6 | 280.5 | 281.3 | 283.0 | 284.3 | 277.3 |
| 102.5° | 36.2  | 48.9  | 61.5  | 64.6  | 139.0 | 238.2 | 287.8 | 302.6 | 332.1 | 354.3 | 348.2 |
| 105°   | 46.8  | 57.5  | 68.2  | 70.9  | 142.9 | 239.0 | 287.0 | 320.1 | 386.2 | 435.8 | 432.6 |
| 107.5° | 57.7  | 67.6  | 77.6  | 80.1  | 143.6 | 228.4 | 270.7 | 316.9 | 409.1 | 478.3 | 479.1 |
| 110°   | 65.0  | 74.0  | 83.0  | 85.3  | 142.6 | 219.0 | 257.2 | 308.8 | 411.8 | 489.1 | 492.5 |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 72.2  | 80.8  | 89.3  | 91.5  | 142.6 | 210.7 | 244.8 | 297.5 | 403.1 | 482.2 | 487.3 |
| 115°   | 83.1  | 91.1  | 98.9  | 100.9 | 143.9 | 201.2 | 229.9 | 280.8 | 382.4 | 458.6 | 465.9 |
| 117.5° | 93.9  | 101.0 | 108.2 | 110.0 | 146.5 | 195.3 | 219.8 | 265.7 | 357.4 | 426.1 | 434.1 |
| 120°   | 100.1 | 106.9 | 113.6 | 115.3 | 148.8 | 193.4 | 215.7 | 257.6 | 341.4 | 404.3 | 412.1 |
| 122.5° | 106.2 | 113.1 | 119.8 | 121.6 | 151.9 | 192.3 | 212.5 | 250.3 | 325.8 | 382.4 | 390.1 |
| 125°   | 115.6 | 121.8 | 128.1 | 129.6 | 156.1 | 191.5 | 209.2 | 241.2 | 305.4 | 353.5 | 360.5 |
| 127.5° | 123.2 | 129.4 | 135.8 | 137.3 | 160.3 | 191.0 | 206.3 | 233.8 | 288.9 | 330.2 | 336.2 |
| 130°   | 127.3 | 134.1 | 140.8 | 142.5 | 163.4 | 191.3 | 205.2 | 229.7 | 278.7 | 315.4 | 321.0 |
| 132.5° | 131.5 | 138.3 | 145.0 | 146.7 | 165.9 | 191.5 | 204.3 | 226.2 | 270.1 | 303.0 | 307.8 |
| 135°   | 137.8 | 143.9 | 150.1 | 151.6 | 168.6 | 191.4 | 202.7 | 221.0 | 257.8 | 285.3 | 289.6 |
| 137.5° | 144.2 | 150.3 | 156.3 | 157.9 | 172.7 | 192.5 | 202.4 | 218.0 | 249.0 | 272.3 | 275.7 |
| 140°   | 149.4 | 155.1 | 160.7 | 162.1 | 175.2 | 192.7 | 201.4 | 214.8 | 241.7 | 261.8 | 265.0 |
| 142.5° | 153.5 | 158.7 | 163.9 | 165.2 | 177.2 | 193.3 | 201.4 | 213.2 | 236.8 | 254.4 | 257.2 |
| 145°   | 159.8 | 164.3 | 168.8 | 170.0 | 180.0 | 193.3 | 200.0 | 209.6 | 228.9 | 243.4 | 245.5 |
| 147.5° | 166.0 | 170.4 | 174.9 | 176.0 | 184.0 | 194.7 | 200.0 | 207.6 | 222.8 | 234.2 | 235.9 |
| 150°   | 170.1 | 174.1 | 178.1 | 179.1 | 186.1 | 195.4 | 200.0 | 206.5 | 219.2 | 228.8 | 230.3 |
| 152.5° | 174.3 | 177.3 | 180.4 | 181.1 | 187.5 | 195.9 | 200.0 | 205.5 | 216.4 | 224.7 | 225.7 |
| 155°   | 180.6 | 182.8 | 185.1 | 185.6 | 190.4 | 196.9 | 200.0 | 204.4 | 213.1 | 219.6 | 220.3 |
| 157.5° | 185.2 | 187.4 | 189.5 | 190.1 | 193.4 | 197.9 | 200.0 | 203.4 | 210.2 | 215.2 | 215.8 |
| 160°   | 188.4 | 190.1 | 191.7 | 192.2 | 194.8 | 198.3 | 200.0 | 202.9 | 208.7 | 213.1 | 213.3 |
| 162.5° | 191.4 | 192.7 | 194.0 | 194.3 | 196.2 | 198.8 | 200.0 | 202.5 | 207.4 | 211.1 | 211.4 |
| 165°   | 194.9 | 196.0 | 197.1 | 197.4 | 198.3 | 199.5 | 200.0 | 201.8 | 205.3 | 207.9 | 208.2 |
| 167.5° | 198.0 | 198.5 | 199.0 | 199.2 | 200.0 | 200.9 | 201.4 | 202.6 | 204.8 | 206.6 | 206.6 |
| 170°   | 200.0 | 200.6 | 201.1 | 201.2 | 201.3 | 201.4 | 201.4 | 202.6 | 204.8 | 206.6 | 206.6 |
| 172.5° | 201.1 | 201.2 | 201.4 | 201.4 | 201.4 | 201.4 | 201.4 | 202.3 | 204.1 | 205.5 | 205.4 |
| 175°   | 202.7 | 202.7 | 202.7 | 202.7 | 202.2 | 201.7 | 201.4 | 201.9 | 203.1 | 204.0 | 204.0 |
| 177.5° | 202.7 | 202.7 | 202.7 | 202.7 | 202.3 | 201.9 | 201.7 | 202.1 | 203.0 | 203.8 | 203.7 |
| 180°   | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 | 202.7 |

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CATALOG NUMBER: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   |
|--------|-------|-------|
| 0°     | 283.1 | 283.1 |
| 2.5°   | 302.2 | 300.4 |
| 5°     | 388.8 | 390.6 |
| 7.5°   | 523.5 | 522.6 |
| 10°    | 651.0 | 659.1 |
| 12.5°  | 743.9 | 745.7 |
| 15°    | 800.3 | 804.0 |
| 17.5°  | 822.2 | 823.1 |
| 20°    | 823.1 | 821.3 |
| 22.5°  | 813.0 | 811.2 |
| 25°    | 801.2 | 800.3 |
| 27.5°  | 790.3 | 791.2 |
| 30°    | 785.8 | 788.5 |
| 32.5°  | 785.8 | 790.3 |
| 35°    | 787.6 | 792.1 |
| 37.5°  | 786.7 | 792.1 |
| 40°    | 783.0 | 789.4 |
| 42.5°  | 773.0 | 777.5 |
| 45°    | 757.5 | 763.0 |
| 47.5°  | 737.4 | 741.1 |
| 50°    | 712.0 | 715.6 |
| 52.5°  | 680.1 | 681.0 |
| 55°    | 641.8 | 645.6 |
| 57.5°  | 600.9 | 601.8 |
| 60°    | 555.4 | 558.1 |
| 62.5°  | 507.2 | 507.2 |
| 65°    | 456.1 | 457.9 |
| 67.5°  | 403.3 | 407.9 |
| 70°    | 349.7 | 350.6 |
| 72.5°  | 296.8 | 296.8 |
| 75°    | 242.2 | 243.1 |
| 77.5°  | 190.3 | 190.3 |
| 80°    | 141.1 | 142.0 |
| 82.5°  | 97.4  | 99.2  |
| 85°    | 61.0  | 61.0  |
| 87.5°  | 28.2  | 25.5  |
| 90°    | 5.2   | 5.2   |
| 92.5°  | 20.6  | 16.6  |
| 95°    | 72.1  | 59.7  |
| 97.5°  | 172.9 | 149.2 |
| 100°   | 249.1 | 220.9 |
| 102.5° | 324.0 | 299.9 |
| 105°   | 419.6 | 406.6 |
| 107.5° | 482.2 | 485.3 |
| 110°   | 506.1 | 519.7 |



TEST NUMBER: P936263

CATALOG NUMBER: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-6-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   |
|--------|-------|-------|
| 112.5° | 508.2 | 529.0 |
| 115°   | 494.7 | 523.5 |
| 117.5° | 466.2 | 498.1 |
| 120°   | 443.2 | 474.2 |
| 122.5° | 420.7 | 451.3 |
| 125°   | 388.7 | 416.9 |
| 127.5° | 360.0 | 383.8 |
| 130°   | 343.0 | 365.0 |
| 132.5° | 327.6 | 347.3 |
| 135°   | 306.5 | 323.5 |
| 137.5° | 289.7 | 303.5 |
| 140°   | 278.0 | 291.0 |
| 142.5° | 268.4 | 279.6 |
| 145°   | 254.0 | 262.5 |
| 147.5° | 242.9 | 249.9 |
| 150°   | 236.0 | 241.7 |
| 152.5° | 230.0 | 234.3 |
| 155°   | 223.1 | 226.0 |
| 157.5° | 217.8 | 219.8 |
| 160°   | 214.5 | 215.7 |
| 162.5° | 212.4 | 213.5 |
| 165°   | 209.4 | 210.5 |
| 167.5° | 207.2 | 207.6 |
| 170°   | 206.6 | 206.6 |
| 172.5° | 204.9 | 204.6 |
| 175°   | 204.0 | 204.0 |
| 177.5° | 203.1 | 202.7 |
| 180°   | 202.7 | 202.7 |

TEST NUMBER: P936263

CATALOG NUMBER: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-6-4000K

**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 | 4.01             | 5.05  | 4.85  | 5.91  | 6.99  | 17.18          | 18.22 | 18.01 | 19.08 | 20.15 |
|                 | 3H   | 4.73             | 5.67  | 5.58  | 6.54  | 7.64  | 19.03          | 19.96 | 19.87 | 20.83 | 21.93 |
|                 | 4H   | 5.04             | 5.92  | 5.90  | 6.80  | 7.92  | 19.68          | 20.56 | 20.54 | 21.44 | 22.55 |
|                 | 6H   | 5.30             | 6.12  | 6.17  | 7.00  | 8.13  | 20.11          | 20.93 | 20.99 | 21.81 | 22.94 |
|                 | 8H   | 5.37             | 6.15  | 6.25  | 7.06  | 8.18  | 20.23          | 21.01 | 21.12 | 21.92 | 23.05 |
|                 | 12H  | 5.40             | 6.14  | 6.28  | 7.04  | 8.19  | 20.31          | 21.05 | 21.20 | 21.95 | 23.10 |
| 4H              | 2H   | 11.24            | 12.13 | 12.11 | 13.00 | 14.12 | 17.47          | 18.36 | 18.34 | 19.24 | 20.35 |
|                 | 3H   | 12.83            | 13.57 | 13.70 | 14.48 | 15.61 | 19.53          | 20.27 | 20.41 | 21.18 | 22.31 |
|                 | 4H   | 12.93            | 13.61 | 13.82 | 14.51 | 15.67 | 20.30          | 20.98 | 21.19 | 21.89 | 23.04 |
|                 | 6H   | 12.95            | 13.54 | 13.86 | 14.47 | 15.62 | 20.85          | 21.43 | 21.75 | 22.36 | 23.52 |
|                 | 8H   | 12.93            | 13.48 | 13.84 | 14.41 | 15.58 | 21.01          | 21.56 | 21.92 | 22.49 | 23.66 |
|                 | 12H  | 12.90            | 13.39 | 13.83 | 14.34 | 15.51 | 21.11          | 21.61 | 22.04 | 22.55 | 23.73 |
| 8H              | 4H   | 14.39            | 14.93 | 15.29 | 15.86 | 17.03 | 20.38          | 20.93 | 21.29 | 21.85 | 23.02 |
|                 | 6H   | 14.64            | 15.09 | 15.57 | 16.06 | 17.23 | 21.01          | 21.47 | 21.95 | 22.43 | 23.60 |
|                 | 8H   | 14.66            | 15.06 | 15.60 | 16.02 | 17.21 | 21.23          | 21.64 | 22.18 | 22.59 | 23.78 |
|                 | 12H  | 14.63            | 14.99 | 15.58 | 15.94 | 17.18 | 21.38          | 21.74 | 22.33 | 22.69 | 23.92 |
| 12H             | 4H   | 14.54            | 15.03 | 15.47 | 15.98 | 17.15 | 20.34          | 20.84 | 21.27 | 21.78 | 22.96 |
|                 | 6H   | 14.90            | 15.30 | 15.84 | 16.26 | 17.45 | 21.00          | 21.40 | 21.94 | 22.36 | 23.55 |
|                 | 8H   | 14.97            | 15.33 | 15.92 | 16.28 | 17.52 | 21.23          | 21.59 | 22.18 | 22.54 | 23.78 |