

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: P936757

Luminaire Tested: SQ4-FB-050U-075D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

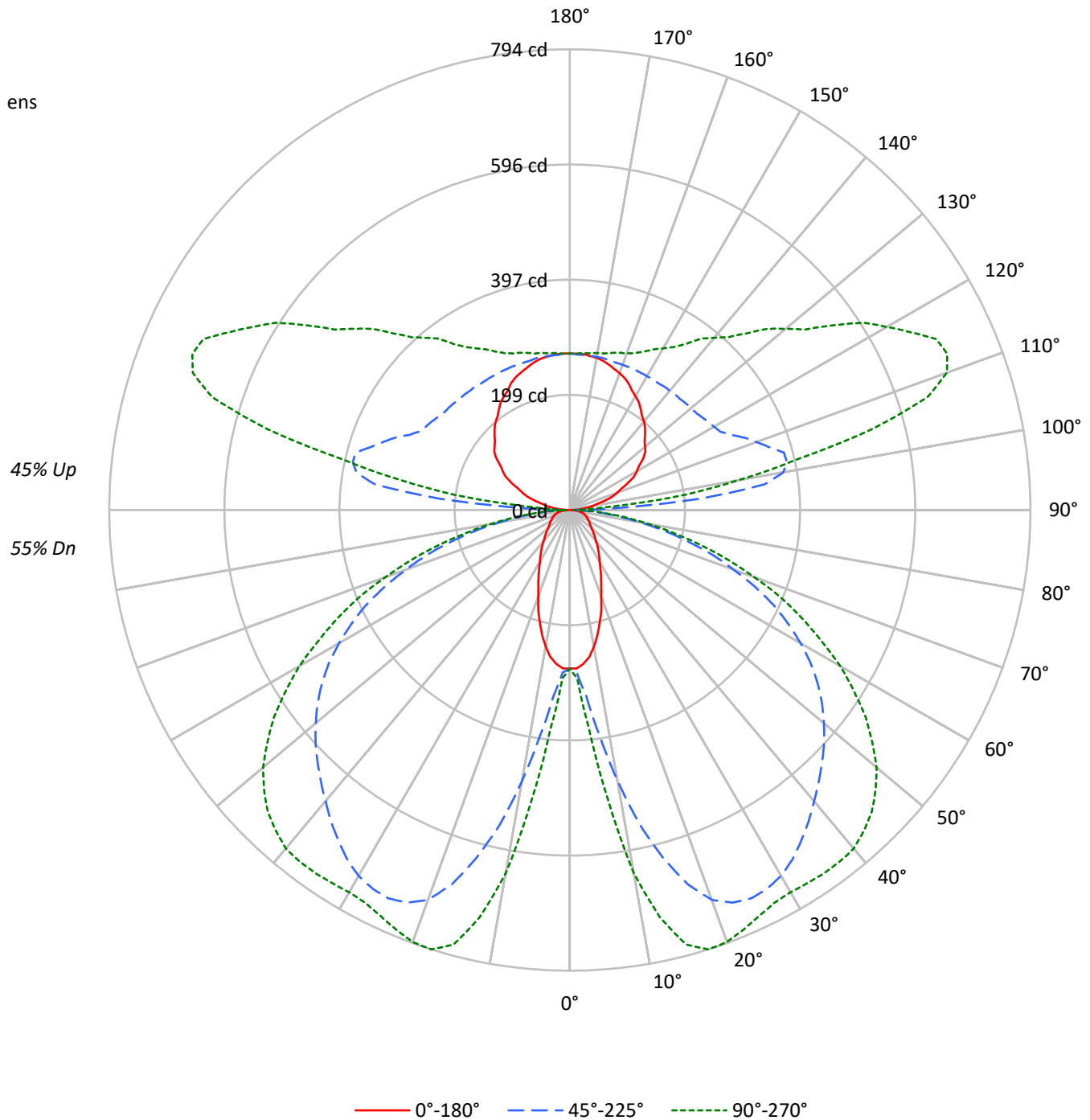
Test Method: LM-79-2019  
Report Number: P936757  
REPORT IS A COMBINATION OF REPORTS P933470 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-050U-075D-93050-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3862.7 lumens  
Efficiency: N/A  
Efficacy: 106.1 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): 36.4  
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: P936757  
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### Luminous Intensity Polar Plot





TEST NUMBER: P936757

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**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 | 0  |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 86 | 86 | 86 | 73 | 73 | 73 | 60 | 60 | 60 | 55 |
| 1   | 98  | 94  | 89  | 86  | 91  | 87  | 83  | 80  | 75 | 72 | 69 | 63 | 61 | 59 | 53 | 51 | 50 | 45 |
| 2   | 89  | 81  | 74  | 69  | 82  | 75  | 70  | 65  | 65 | 60 | 56 | 55 | 51 | 49 | 45 | 43 | 41 | 37 |
| 3   | 81  | 71  | 63  | 57  | 74  | 66  | 59  | 53  | 56 | 51 | 47 | 48 | 44 | 40 | 40 | 37 | 34 | 30 |
| 4   | 73  | 62  | 54  | 47  | 68  | 58  | 50  | 45  | 50 | 44 | 39 | 42 | 38 | 34 | 35 | 32 | 29 | 25 |
| 5   | 67  | 55  | 46  | 40  | 62  | 51  | 44  | 38  | 44 | 38 | 33 | 37 | 33 | 29 | 31 | 28 | 25 | 21 |
| 6   | 62  | 49  | 40  | 34  | 57  | 46  | 38  | 32  | 39 | 33 | 29 | 33 | 29 | 25 | 28 | 24 | 21 | 18 |
| 7   | 57  | 44  | 36  | 30  | 52  | 41  | 34  | 28  | 35 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 16 |
| 8   | 53  | 40  | 32  | 26  | 49  | 37  | 30  | 25  | 32 | 26 | 22 | 27 | 23 | 19 | 23 | 19 | 16 | 14 |
| 9   | 49  | 36  | 28  | 23  | 45  | 34  | 27  | 22  | 29 | 23 | 19 | 25 | 20 | 17 | 21 | 17 | 15 | 12 |
| 10  | 46  | 33  | 25  | 20  | 42  | 31  | 24  | 19  | 27 | 21 | 17 | 23 | 18 | 15 | 19 | 16 | 13 | 11 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2535 | 2535 | 2535 |
| 5°  | 2473 | 2928 | 3407 |
| 10° | 2241 | 4264 | 5648 |
| 15° | 1903 | 5567 | 6820 |
| 20° | 1547 | 6446 | 6950 |
| 25° | 1289 | 6741 | 6809 |
| 30° | 1086 | 6778 | 6797 |
| 35° | 959  | 6660 | 6972 |
| 40° | 834  | 6508 | 7154 |
| 45° | 753  | 6395 | 7182 |
| 50° | 690  | 6293 | 7063 |
| 55° | 659  | 6145 | 6750 |
| 60° | 672  | 5868 | 6256 |
| 65° | 696  | 5448 | 5577 |
| 70° | 736  | 4743 | 4710 |
| 75° | 807  | 3856 | 3676 |
| 80° | 861  | 2664 | 2477 |
| 85° | 729  | 1407 | 1267 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7182 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.3   | 0.9       |
| 10°-20°   | 156.6  | 4.1       |
| 20°-30°   | 273.9  | 7.1       |
| 30°-40°   | 352.6  | 9.1       |
| 40°-50°   | 393.8  | 10.2      |
| 50°-60°   | 377.2  | 9.8       |
| 60°-70°   | 298.9  | 7.7       |
| 70°-80°   | 175.8  | 4.6       |
| 80°-90°   | 49.9   | 1.3       |
| 90°-100°  | 131.5  | 3.4       |
| 100°-110° | 345.7  | 8.9       |
| 110°-120° | 358.4  | 9.3       |
| 120°-130° | 287.5  | 7.4       |
| 130°-140° | 225.6  | 5.8       |
| 140°-150° | 173.1  | 4.5       |
| 150°-160° | 124.7  | 3.2       |
| 160°-170° | 76.3   | 2.0       |
| 170°-180° | 25.8   | 0.7       |
| 0°-30°    | 465.8  | 12.1      |
| 0°-40°    | 818.5  | 21.2      |
| 0°-60°    | 1589.5 | 41.2      |
| 0°-90°    | 2114.1 | 54.7      |
| 90°-120°  | 835.6  | 21.6      |
| 90°-150°  | 1521.8 | 39.4      |
| 90°-180°  | 1749.0 | 45.3      |
| 0°-180°   | 3862.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 273 | 273   | 273 | 273   | 273 |      |
| 5°   | 266 | 285   | 322 | 364   | 377 | 25   |
| 15°  | 199 | 368   | 620 | 752   | 776 | 55   |
| 25°  | 127 | 417   | 739 | 771   | 772 | 59   |
| 35°  | 86  | 399   | 696 | 735   | 764 | 54   |
| 45°  | 59  | 318   | 615 | 704   | 736 | 46   |
| 55°  | 42  | 202   | 522 | 606   | 623 | 38   |
| 65°  | 33  | 107   | 387 | 436   | 442 | 33   |
| 75°  | 25  | 66    | 212 | 234   | 234 | 26   |
| 85°  | 9   | 20    | 53  | 58    | 59  | 9    |
| 90°  | 2   | 5     | 14  | 7     | 7   | 2    |
| 95°  | 17  | 68    | 226 | 117   | 80  | 19   |
| 105° | 62  | 94    | 382 | 580   | 541 | 66   |
| 115° | 111 | 134   | 306 | 611   | 697 | 109  |
| 125° | 154 | 172   | 278 | 470   | 555 | 137  |
| 135° | 183 | 202   | 270 | 380   | 431 | 142  |
| 145° | 213 | 226   | 266 | 324   | 349 | 133  |
| 155° | 240 | 247   | 266 | 292   | 301 | 110  |
| 165° | 260 | 263   | 266 | 277   | 280 | 73   |
| 175° | 270 | 270   | 268 | 272   | 272 | 26   |
| 180° | 270 | 270   | 270 | 270   | 270 |      |



TEST NUMBER: P936757

CATALOG NUMBER: SQ4-FB-050U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 273.2 | 273.2 | 273.2 | 273.2 | 273.2 | 273.2 | 273.2 | 273.2 | 273.2 | 273.2 | 273.2 |
| 2.5°   | 273.2 | 273.2 | 274.9 | 275.8 | 277.5 | 278.4 | 280.2 | 281.9 | 287.2 | 288.1 | 289.8 |
| 5°     | 266.1 | 269.6 | 281.1 | 285.4 | 297.7 | 314.4 | 321.5 | 332.9 | 356.6 | 363.6 | 368.0 |
| 7.5°   | 255.6 | 263.5 | 291.6 | 298.6 | 329.4 | 373.3 | 391.7 | 416.3 | 454.1 | 472.5 | 487.5 |
| 10°    | 238.9 | 255.6 | 305.6 | 322.3 | 372.4 | 439.2 | 473.4 | 507.7 | 564.7 | 590.2 | 599.9 |
| 12.5°  | 220.5 | 247.7 | 320.6 | 343.4 | 415.4 | 512.9 | 554.2 | 592.0 | 657.0 | 691.2 | 696.5 |
| 15°    | 199.4 | 236.3 | 334.6 | 368.0 | 461.1 | 574.4 | 620.1 | 666.6 | 727.2 | 751.8 | 758.0 |
| 17.5°  | 180.9 | 227.5 | 347.8 | 382.9 | 496.2 | 629.7 | 676.3 | 714.9 | 764.1 | 780.8 | 785.2 |
| 20°    | 158.1 | 213.4 | 356.6 | 402.3 | 533.1 | 670.1 | 714.9 | 744.8 | 778.2 | 788.7 | 790.5 |
| 22.5°  | 141.4 | 198.5 | 361.9 | 409.3 | 557.7 | 694.7 | 732.5 | 756.2 | 779.1 | 782.6 | 783.4 |
| 25°    | 127.4 | 181.8 | 361.0 | 417.2 | 578.8 | 709.7 | 738.7 | 756.2 | 769.4 | 771.1 | 771.1 |
| 27.5°  | 114.2 | 163.4 | 357.5 | 418.9 | 594.6 | 713.2 | 736.0 | 748.3 | 754.5 | 758.0 | 758.0 |
| 30°    | 102.8 | 145.8 | 348.7 | 415.4 | 601.6 | 709.7 | 728.1 | 734.3 | 740.4 | 745.7 | 748.3 |
| 32.5°  | 94.0  | 129.1 | 335.5 | 408.4 | 602.5 | 700.9 | 714.1 | 717.6 | 726.4 | 738.7 | 743.0 |
| 35°    | 86.1  | 112.4 | 320.6 | 398.7 | 597.2 | 686.8 | 695.6 | 699.1 | 716.7 | 735.1 | 741.3 |
| 37.5°  | 78.2  | 100.1 | 301.3 | 382.1 | 589.3 | 670.1 | 676.3 | 682.4 | 709.7 | 731.6 | 738.7 |
| 40°    | 70.3  | 89.6  | 278.4 | 363.6 | 577.0 | 649.9 | 655.2 | 664.9 | 700.9 | 726.4 | 733.4 |
| 42.5°  | 64.1  | 80.8  | 253.8 | 344.3 | 561.2 | 627.1 | 635.0 | 649.1 | 690.3 | 717.6 | 725.5 |
| 45°    | 58.8  | 72.0  | 227.5 | 317.9 | 541.0 | 603.4 | 614.8 | 634.1 | 678.0 | 704.4 | 711.4 |
| 47.5°  | 53.6  | 65.9  | 200.3 | 290.7 | 519.1 | 579.7 | 594.6 | 616.6 | 661.4 | 686.8 | 693.0 |
| 50°    | 49.2  | 59.7  | 173.0 | 261.7 | 495.4 | 554.2 | 571.8 | 594.6 | 640.3 | 664.0 | 671.9 |
| 52.5°  | 45.7  | 54.5  | 147.6 | 232.7 | 468.1 | 527.9 | 548.1 | 571.8 | 614.8 | 637.6 | 642.9 |
| 55°    | 42.2  | 50.1  | 125.6 | 202.0 | 440.0 | 499.8 | 521.7 | 544.5 | 586.7 | 606.0 | 609.5 |
| 57.5°  | 40.4  | 46.5  | 107.2 | 173.0 | 410.2 | 468.1 | 492.7 | 513.8 | 553.3 | 568.3 | 571.8 |
| 60°    | 37.8  | 43.9  | 93.1  | 148.4 | 377.7 | 438.3 | 459.4 | 480.4 | 513.8 | 526.1 | 528.7 |
| 62.5°  | 35.1  | 42.2  | 82.6  | 124.7 | 344.3 | 403.1 | 424.2 | 443.5 | 471.6 | 480.4 | 483.9 |
| 65°    | 33.4  | 40.4  | 74.7  | 107.2 | 310.0 | 366.3 | 387.3 | 404.0 | 426.9 | 435.6 | 437.4 |
| 67.5°  | 31.6  | 38.6  | 68.5  | 92.2  | 275.8 | 329.4 | 345.2 | 361.0 | 378.5 | 387.3 | 388.2 |
| 70°    | 29.0  | 36.9  | 63.2  | 81.7  | 240.7 | 287.2 | 300.4 | 317.1 | 331.1 | 335.5 | 338.1 |
| 72.5°  | 27.2  | 34.3  | 59.7  | 73.8  | 204.6 | 246.8 | 259.1 | 268.8 | 281.1 | 285.4 | 285.4 |
| 75°    | 24.6  | 30.7  | 56.2  | 65.9  | 167.8 | 202.0 | 212.5 | 222.2 | 231.9 | 233.6 | 231.0 |
| 77.5°  | 22.0  | 27.2  | 48.3  | 55.3  | 130.9 | 159.9 | 168.6 | 173.9 | 181.8 | 183.6 | 184.4 |
| 80°    | 18.4  | 23.7  | 37.8  | 43.0  | 94.9  | 117.7 | 123.8 | 128.2 | 135.3 | 135.3 | 137.0 |
| 82.5°  | 14.1  | 18.4  | 27.2  | 30.7  | 64.1  | 80.8  | 86.1  | 88.7  | 93.1  | 93.1  | 93.1  |
| 85°    | 8.8   | 11.4  | 17.6  | 20.2  | 38.6  | 49.2  | 52.7  | 53.6  | 57.1  | 58.0  | 58.0  |
| 87.5°  | 4.4   | 6.1   | 11.4  | 12.3  | 20.2  | 25.5  | 25.5  | 27.2  | 27.2  | 26.3  | 25.5  |
| 90°    | 1.8   | 3.2   | 4.7   | 5.1   | 8.0   | 11.9  | 13.8  | 12.2  | 9.1   | 6.9   | 6.9   |
| 92.5°  | 7.2   | 19.5  | 31.9  | 35.0  | 49.1  | 68.0  | 77.5  | 67.9  | 48.7  | 34.4  | 33.0  |
| 95°    | 17.4  | 39.9  | 62.4  | 68.1  | 120.9 | 191.2 | 226.4 | 202.0 | 153.3 | 116.7 | 112.6 |
| 97.5°  | 30.0  | 49.9  | 69.7  | 74.7  | 162.7 | 280.2 | 338.8 | 323.5 | 292.6 | 269.6 | 261.6 |
| 100°   | 39.8  | 57.8  | 75.9  | 80.4  | 178.0 | 308.3 | 373.5 | 374.6 | 376.9 | 378.5 | 369.1 |
| 102.5° | 48.1  | 65.0  | 81.8  | 86.0  | 185.1 | 317.2 | 383.2 | 402.9 | 442.1 | 471.6 | 463.5 |
| 105°   | 62.3  | 76.5  | 90.7  | 94.3  | 190.2 | 318.2 | 382.1 | 426.2 | 514.2 | 580.2 | 575.9 |
| 107.5° | 76.8  | 90.0  | 103.3 | 106.6 | 191.2 | 304.1 | 360.5 | 421.8 | 544.6 | 636.7 | 637.7 |
| 110°   | 86.5  | 98.5  | 110.5 | 113.5 | 189.8 | 291.5 | 342.4 | 411.0 | 548.2 | 651.2 | 655.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 96.1  | 107.5 | 118.9 | 121.8 | 189.8 | 280.5 | 325.8 | 396.1 | 536.6 | 642.0 | 648.9 |
| 115°   | 110.6 | 121.1 | 131.7 | 134.3 | 191.6 | 267.9 | 306.1 | 373.7 | 509.1 | 610.6 | 620.2 |
| 117.5° | 124.9 | 134.5 | 144.0 | 146.4 | 195.2 | 260.1 | 292.6 | 353.6 | 475.7 | 567.3 | 577.9 |
| 120°   | 133.2 | 142.3 | 151.2 | 153.5 | 198.1 | 257.4 | 287.1 | 342.9 | 454.5 | 538.2 | 548.6 |
| 122.5° | 141.4 | 150.5 | 159.6 | 161.9 | 202.2 | 256.0 | 282.9 | 333.1 | 433.7 | 509.1 | 519.3 |
| 125°   | 153.9 | 162.1 | 170.4 | 172.5 | 207.8 | 254.9 | 278.4 | 321.1 | 406.5 | 470.5 | 479.9 |
| 127.5° | 164.0 | 172.4 | 180.8 | 182.9 | 213.4 | 254.3 | 274.6 | 311.3 | 384.5 | 439.5 | 447.4 |
| 130°   | 169.4 | 178.5 | 187.4 | 189.7 | 217.6 | 254.6 | 273.2 | 305.8 | 371.1 | 420.0 | 427.3 |
| 132.5° | 175.0 | 184.1 | 193.1 | 195.3 | 220.9 | 254.9 | 271.9 | 301.1 | 359.5 | 403.3 | 409.9 |
| 135°   | 183.4 | 191.6 | 199.8 | 201.8 | 224.5 | 254.6 | 269.7 | 294.1 | 343.1 | 379.8 | 385.4 |
| 137.5° | 191.9 | 200.0 | 208.2 | 210.2 | 229.9 | 256.2 | 269.4 | 290.0 | 331.4 | 362.4 | 367.0 |
| 140°   | 198.9 | 206.4 | 214.0 | 215.8 | 233.2 | 256.5 | 268.1 | 286.0 | 321.7 | 348.5 | 352.8 |
| 142.5° | 204.4 | 211.3 | 218.2 | 219.9 | 236.0 | 257.3 | 268.1 | 283.8 | 315.1 | 338.7 | 342.4 |
| 145°   | 212.7 | 218.7 | 224.8 | 226.3 | 239.6 | 257.4 | 266.3 | 279.1 | 304.8 | 324.0 | 326.8 |
| 147.5° | 221.1 | 227.0 | 232.7 | 234.2 | 245.0 | 259.2 | 266.3 | 276.4 | 296.6 | 311.7 | 314.1 |
| 150°   | 226.4 | 231.7 | 237.1 | 238.4 | 247.7 | 260.1 | 266.3 | 274.8 | 291.9 | 304.7 | 306.6 |
| 152.5° | 232.0 | 236.1 | 240.1 | 241.1 | 249.5 | 260.7 | 266.3 | 273.6 | 288.2 | 299.1 | 300.5 |
| 155°   | 240.4 | 243.4 | 246.4 | 247.1 | 253.5 | 262.0 | 266.3 | 272.1 | 283.7 | 292.4 | 293.4 |
| 157.5° | 246.5 | 249.4 | 252.3 | 253.0 | 257.4 | 263.3 | 266.3 | 270.8 | 279.8 | 286.6 | 287.3 |
| 160°   | 250.8 | 253.0 | 255.2 | 255.8 | 259.3 | 263.9 | 266.3 | 270.2 | 277.9 | 283.7 | 284.0 |
| 162.5° | 254.9 | 256.6 | 258.2 | 258.7 | 261.2 | 264.6 | 266.3 | 269.6 | 276.1 | 281.0 | 281.3 |
| 165°   | 259.5 | 260.9 | 262.5 | 262.9 | 264.0 | 265.5 | 266.3 | 268.6 | 273.2 | 276.8 | 277.1 |
| 167.5° | 263.6 | 264.3 | 265.0 | 265.2 | 266.1 | 267.4 | 268.1 | 269.6 | 272.7 | 275.0 | 275.2 |
| 170°   | 266.3 | 267.0 | 267.7 | 267.9 | 268.0 | 268.1 | 268.1 | 269.6 | 272.7 | 275.0 | 275.0 |
| 172.5° | 267.7 | 267.9 | 268.1 | 268.1 | 268.1 | 268.1 | 268.1 | 269.3 | 271.7 | 273.5 | 273.3 |
| 175°   | 269.7 | 269.7 | 269.7 | 269.7 | 269.2 | 268.4 | 268.1 | 268.8 | 270.4 | 271.6 | 271.6 |
| 177.5° | 269.7 | 269.7 | 269.7 | 269.7 | 269.3 | 268.8 | 268.5 | 269.1 | 270.3 | 271.2 | 271.0 |
| 180°   | 269.7 | 269.7 | 269.7 | 269.7 | 269.7 | 269.7 | 269.7 | 269.7 | 269.7 | 269.7 | 269.7 |



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CATALOG NUMBER: SQ4-FB-050U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   |
|--------|-------|-------|
| 0°     | 273.2 | 273.2 |
| 2.5°   | 291.6 | 289.8 |
| 5°     | 375.0 | 376.8 |
| 7.5°   | 505.0 | 504.1 |
| 10°    | 628.0 | 635.9 |
| 12.5°  | 717.6 | 719.3 |
| 15°    | 772.0 | 775.5 |
| 17.5°  | 793.1 | 794.0 |
| 20°    | 794.0 | 792.2 |
| 22.5°  | 784.3 | 782.6 |
| 25°    | 772.9 | 772.0 |
| 27.5°  | 762.4 | 763.2 |
| 30°    | 758.0 | 760.6 |
| 32.5°  | 758.0 | 762.4 |
| 35°    | 759.7 | 764.1 |
| 37.5°  | 758.9 | 764.1 |
| 40°    | 755.3 | 761.5 |
| 42.5°  | 745.7 | 750.1 |
| 45°    | 730.7 | 736.0 |
| 47.5°  | 711.4 | 714.9 |
| 50°    | 686.8 | 690.3 |
| 52.5°  | 656.1 | 657.0 |
| 55°    | 619.2 | 622.7 |
| 57.5°  | 579.7 | 580.6 |
| 60°    | 535.8 | 538.4 |
| 62.5°  | 489.2 | 489.2 |
| 65°    | 440.0 | 441.8 |
| 67.5°  | 389.1 | 393.5 |
| 70°    | 337.3 | 338.1 |
| 72.5°  | 286.3 | 286.3 |
| 75°    | 233.6 | 234.5 |
| 77.5°  | 183.6 | 183.6 |
| 80°    | 136.1 | 137.0 |
| 82.5°  | 94.0  | 95.7  |
| 85°    | 58.8  | 58.8  |
| 87.5°  | 27.2  | 24.6  |
| 90°    | 6.9   | 6.9   |
| 92.5°  | 27.6  | 22.0  |
| 95°    | 96.0  | 79.5  |
| 97.5°  | 230.1 | 198.6 |
| 100°   | 331.6 | 294.0 |
| 102.5° | 431.3 | 399.2 |
| 105°   | 558.6 | 541.3 |
| 107.5° | 641.9 | 646.1 |
| 110°   | 673.7 | 691.7 |





TEST NUMBER: P936757

CATALOG NUMBER: SQ4-FB-050U-075D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°   | 90°   |
|--------|-------|-------|
| 112.5° | 676.6 | 704.2 |
| 115°   | 658.6 | 696.9 |
| 117.5° | 620.5 | 663.1 |
| 120°   | 589.9 | 631.2 |
| 122.5° | 560.1 | 600.8 |
| 125°   | 517.4 | 555.0 |
| 127.5° | 479.1 | 510.8 |
| 130°   | 456.6 | 485.9 |
| 132.5° | 436.1 | 462.3 |
| 135°   | 408.1 | 430.6 |
| 137.5° | 385.5 | 404.0 |
| 140°   | 370.1 | 387.4 |
| 142.5° | 357.3 | 372.2 |
| 145°   | 338.1 | 349.4 |
| 147.5° | 323.4 | 332.7 |
| 150°   | 314.2 | 321.7 |
| 152.5° | 306.2 | 311.9 |
| 155°   | 297.1 | 300.9 |
| 157.5° | 289.9 | 292.6 |
| 160°   | 285.6 | 287.1 |
| 162.5° | 282.8 | 284.2 |
| 165°   | 278.7 | 280.3 |
| 167.5° | 275.8 | 276.4 |
| 170°   | 275.0 | 275.0 |
| 172.5° | 272.8 | 272.3 |
| 175°   | 271.6 | 271.6 |
| 177.5° | 270.4 | 269.7 |
| 180°   | 269.7 | 269.7 |



TEST NUMBER: P936757

CATALOG NUMBER: SQ4-FB-050U-075D-93050-1D-UNV-STD-W-4-3000K

**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 | 4.65             | 5.59  | 5.55  | 6.53  | 7.72  | 17.78          | 18.73 | 18.69 | 19.66 | 20.86 |
|                 | 3H   | 5.36             | 6.21  | 6.28  | 7.15  | 8.37  | 19.61          | 20.47 | 20.53 | 21.41 | 22.63 |
|                 | 4H   | 5.66             | 6.47  | 6.59  | 7.41  | 8.65  | 20.25          | 21.06 | 21.18 | 22.01 | 23.24 |
|                 | 6H   | 5.91             | 6.66  | 6.86  | 7.61  | 8.86  | 20.67          | 21.42 | 21.62 | 22.37 | 23.62 |
|                 | 8H   | 5.98             | 6.70  | 6.94  | 7.67  | 8.91  | 20.79          | 21.50 | 21.74 | 22.47 | 23.72 |
|                 | 12H  | 6.01             | 6.68  | 6.96  | 7.65  | 8.92  | 20.86          | 21.53 | 21.81 | 22.50 | 23.77 |
| 4H              | 2H   | 11.84            | 12.65 | 12.78 | 13.60 | 14.83 | 18.07          | 18.88 | 19.01 | 19.82 | 21.05 |
|                 | 3H   | 13.42            | 14.10 | 14.37 | 15.08 | 16.32 | 20.11          | 20.78 | 21.06 | 21.76 | 23.01 |
|                 | 4H   | 13.52            | 14.14 | 14.48 | 15.11 | 16.38 | 20.87          | 21.49 | 21.83 | 22.46 | 23.73 |
|                 | 6H   | 13.54            | 14.07 | 14.51 | 15.07 | 16.34 | 21.40          | 21.94 | 22.37 | 22.93 | 24.20 |
|                 | 8H   | 13.52            | 14.02 | 14.49 | 15.01 | 16.29 | 21.56          | 22.06 | 22.53 | 23.05 | 24.33 |
|                 | 12H  | 13.48            | 13.93 | 14.47 | 14.94 | 16.23 | 21.65          | 22.10 | 22.64 | 23.10 | 24.39 |
| 8H              | 4H   | 14.96            | 15.46 | 15.94 | 16.45 | 17.74 | 20.94          | 21.44 | 21.91 | 22.43 | 23.71 |
|                 | 6H   | 15.21            | 15.63 | 16.21 | 16.65 | 17.94 | 21.56          | 21.97 | 22.56 | 23.00 | 24.28 |
|                 | 8H   | 15.23            | 15.60 | 16.24 | 16.61 | 17.91 | 21.77          | 22.14 | 22.78 | 23.15 | 24.46 |
|                 | 12H  | 15.20            | 15.53 | 16.22 | 16.54 | 17.88 | 21.91          | 22.23 | 22.92 | 23.25 | 24.59 |
| 12H             | 4H   | 15.11            | 15.56 | 16.10 | 16.57 | 17.86 | 20.89          | 21.35 | 21.89 | 22.35 | 23.64 |
|                 | 6H   | 15.47            | 15.83 | 16.48 | 16.85 | 18.15 | 21.54          | 21.91 | 22.55 | 22.93 | 24.23 |
|                 | 8H   | 15.54            | 15.86 | 16.55 | 16.87 | 18.22 | 21.77          | 22.09 | 22.78 | 23.10 | 24.45 |