

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: P937059

Luminaire Tested: SQ4-FB-075U-050D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937059  
REPORT IS A COMBINATION OF REPORTS P933501 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-075U-050D-93050-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

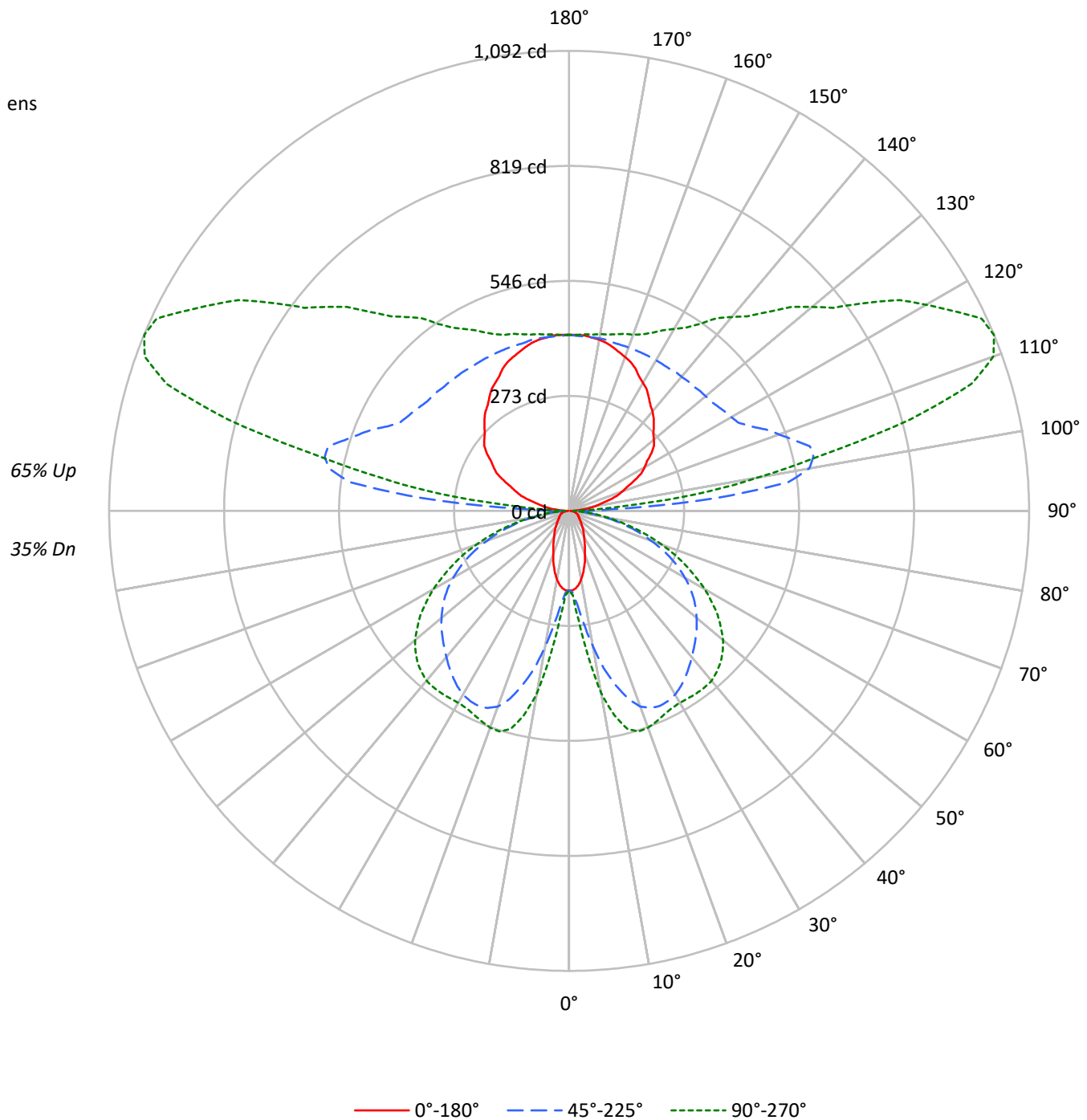
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4172.8 lumens  
Efficiency: N/A  
Efficacy: 121.3 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): 34.4  
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: P937059  
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### Luminous Intensity Polar Plot





TEST NUMBER: P937059

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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 | 50 | 30 | 10 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 35 |    |    | 35 |
| 1   | 94  | 90  | 86  | 82  | 85 | 81 | 78 | 75 | 65 | 63 | 61 | 50 | 49 | 47 | 37 | 36 | 35 | 29 |    |    | 29 |
| 2   | 85  | 78  | 72  | 66  | 77 | 70 | 65 | 61 | 57 | 53 | 50 | 44 | 41 | 39 | 32 | 30 | 29 | 23 |    |    | 23 |
| 3   | 77  | 68  | 61  | 55  | 70 | 62 | 55 | 50 | 49 | 45 | 41 | 38 | 35 | 32 | 28 | 26 | 24 | 19 |    |    | 19 |
| 4   | 71  | 60  | 52  | 46  | 63 | 54 | 47 | 42 | 44 | 39 | 35 | 34 | 30 | 27 | 25 | 22 | 20 | 16 |    |    | 16 |
| 5   | 65  | 53  | 45  | 39  | 58 | 48 | 41 | 36 | 39 | 33 | 29 | 30 | 26 | 23 | 22 | 19 | 17 | 14 |    |    | 14 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 36 | 31 | 35 | 29 | 25 | 27 | 23 | 20 | 20 | 17 | 15 | 12 |    |    | 12 |
| 7   | 55  | 42  | 34  | 29  | 49 | 38 | 31 | 26 | 31 | 26 | 22 | 24 | 20 | 17 | 18 | 15 | 13 | 10 |    |    | 10 |
| 8   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 16 | 14 | 12 | 9  |    |    | 9  |
| 9   | 47  | 35  | 27  | 22  | 42 | 32 | 25 | 20 | 26 | 21 | 17 | 20 | 16 | 14 | 15 | 12 | 10 | 8  |    |    | 8  |
| 10  | 44  | 32  | 24  | 20  | 39 | 29 | 22 | 18 | 23 | 18 | 15 | 18 | 15 | 12 | 14 | 11 | 9  | 7  |    |    | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1752 | 1752 | 1752 |
| 5°  | 1710 | 2023 | 2355 |
| 10° | 1550 | 2948 | 3905 |
| 15° | 1316 | 3849 | 4715 |
| 20° | 1070 | 4457 | 4805 |
| 25° | 892  | 4660 | 4708 |
| 30° | 751  | 4686 | 4699 |
| 35° | 662  | 4604 | 4821 |
| 40° | 577  | 4500 | 4945 |
| 45° | 520  | 4422 | 4966 |
| 50° | 477  | 4351 | 4883 |
| 55° | 455  | 4249 | 4666 |
| 60° | 464  | 4057 | 4325 |
| 65° | 481  | 3766 | 3855 |
| 70° | 508  | 3277 | 3257 |
| 75° | 557  | 2665 | 2541 |
| 80° | 599  | 1842 | 1714 |
| 85° | 505  | 974  | 875  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4966 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 24.4   | 0.6       |
| 10°-20°   | 108.3  | 2.6       |
| 20°-30°   | 189.4  | 4.5       |
| 30°-40°   | 243.8  | 5.8       |
| 40°-50°   | 272.3  | 6.5       |
| 50°-60°   | 260.8  | 6.2       |
| 60°-70°   | 206.7  | 5.0       |
| 70°-80°   | 121.5  | 2.9       |
| 80°-90°   | 35.4   | 0.8       |
| 90°-100°  | 203.8  | 4.9       |
| 100°-110° | 535.8  | 12.8      |
| 110°-120° | 555.6  | 13.3      |
| 120°-130° | 445.6  | 10.7      |
| 130°-140° | 349.7  | 8.4       |
| 140°-150° | 268.4  | 6.4       |
| 150°-160° | 193.3  | 4.6       |
| 160°-170° | 118.3  | 2.8       |
| 170°-180° | 40.0   | 1.0       |
| 0°-30°    | 322.1  | 7.7       |
| 0°-40°    | 565.9  | 13.6      |
| 0°-60°    | 1099.0 | 26.3      |
| 0°-90°    | 1462.5 | 35.0      |
| 90°-120°  | 1295.2 | 31.0      |
| 90°-150°  | 2358.8 | 56.5      |
| 90°-180°  | 2710.0 | 64.9      |
| 0°-180°   | 4172.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 189 | 189   | 189 | 189   | 189  |      |
| 5°   | 184 | 197   | 222 | 251   | 260  | 17   |
| 15°  | 138 | 254   | 429 | 520   | 536  | 38   |
| 25°  | 88  | 288   | 511 | 533   | 534  | 41   |
| 35°  | 60  | 276   | 481 | 508   | 528  | 37   |
| 45°  | 41  | 220   | 425 | 487   | 509  | 31   |
| 55°  | 29  | 140   | 361 | 419   | 430  | 27   |
| 65°  | 23  | 74    | 268 | 301   | 305  | 23   |
| 75°  | 17  | 46    | 147 | 162   | 162  | 18   |
| 85°  | 6   | 14    | 36  | 40    | 41   | 6    |
| 90°  | 3   | 8     | 21  | 11    | 11   | 3    |
| 95°  | 27  | 106   | 351 | 181   | 123  | 30   |
| 105° | 96  | 146   | 592 | 899   | 839  | 102  |
| 115° | 171 | 208   | 474 | 946   | 1080 | 169  |
| 125° | 238 | 267   | 432 | 729   | 860  | 212  |
| 135° | 284 | 313   | 418 | 589   | 668  | 220  |
| 145° | 330 | 351   | 413 | 502   | 542  | 207  |
| 155° | 373 | 383   | 413 | 453   | 466  | 171  |
| 165° | 402 | 407   | 413 | 429   | 434  | 113  |
| 175° | 418 | 418   | 416 | 421   | 421  | 40   |
| 180° | 418 | 418   | 418 | 418   | 418  |      |



TEST NUMBER: P937059

CATALOG NUMBER: SQ4-FB-075U-050D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5°  | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 0°     | 188.8 | 188.8 | 188.8 | 188.8 | 188.8 | 188.8 | 188.8 | 188.8 | 188.8 | 188.8  | 188.8  |
| 2.5°   | 188.8 | 188.8 | 190.1 | 190.6 | 191.9 | 192.5 | 193.7 | 194.9 | 198.6 | 199.1  | 200.4  |
| 5°     | 184.0 | 186.5 | 194.3 | 197.3 | 205.8 | 217.4 | 222.2 | 230.2 | 246.6 | 251.4  | 254.4  |
| 7.5°   | 176.7 | 182.2 | 201.6 | 206.5 | 227.7 | 258.1 | 270.8 | 287.8 | 313.9 | 326.7  | 337.0  |
| 10°    | 165.2 | 176.7 | 211.4 | 222.9 | 257.4 | 303.6 | 327.3 | 351.0 | 390.5 | 408.0  | 414.7  |
| 12.5°  | 152.4 | 171.3 | 221.7 | 237.4 | 287.2 | 354.6 | 383.2 | 409.3 | 454.2 | 477.9  | 481.5  |
| 15°    | 137.9 | 163.4 | 231.4 | 254.4 | 318.8 | 397.1 | 428.7 | 460.9 | 502.8 | 519.7  | 524.0  |
| 17.5°  | 125.1 | 157.3 | 240.5 | 264.8 | 343.1 | 435.4 | 467.6 | 494.3 | 528.3 | 539.8  | 542.8  |
| 20°    | 109.3 | 147.5 | 246.6 | 278.2 | 368.6 | 463.4 | 494.3 | 514.9 | 538.0 | 545.3  | 546.5  |
| 22.5°  | 97.8  | 137.2 | 250.2 | 283.0 | 385.6 | 480.3 | 506.4 | 522.8 | 538.6 | 541.0  | 541.6  |
| 25°    | 88.1  | 125.7 | 249.6 | 288.5 | 400.2 | 490.6 | 510.7 | 522.8 | 532.0 | 533.1  | 533.1  |
| 27.5°  | 78.9  | 113.0 | 247.1 | 289.7 | 411.1 | 493.0 | 508.9 | 517.4 | 521.6 | 524.0  | 524.0  |
| 30°    | 71.1  | 100.8 | 241.0 | 287.2 | 415.9 | 490.6 | 503.4 | 507.6 | 511.9 | 515.6  | 517.4  |
| 32.5°  | 65.0  | 89.2  | 232.0 | 282.3 | 416.6 | 484.5 | 493.7 | 496.1 | 502.2 | 510.7  | 513.7  |
| 35°    | 59.5  | 77.8  | 221.7 | 275.7 | 412.9 | 474.8 | 480.9 | 483.4 | 495.5 | 508.2  | 512.5  |
| 37.5°  | 54.0  | 69.2  | 208.3 | 264.1 | 407.4 | 463.4 | 467.6 | 471.9 | 490.6 | 505.8  | 510.7  |
| 40°    | 48.6  | 61.9  | 192.5 | 251.4 | 399.0 | 449.3 | 453.0 | 459.6 | 484.5 | 502.2  | 507.1  |
| 42.5°  | 44.4  | 55.8  | 175.5 | 238.1 | 388.0 | 433.6 | 439.0 | 448.8 | 477.3 | 496.1  | 501.5  |
| 45°    | 40.6  | 49.8  | 157.3 | 219.8 | 374.0 | 417.2 | 425.1 | 438.5 | 468.8 | 487.0  | 491.9  |
| 47.5°  | 37.0  | 45.5  | 138.5 | 201.0 | 358.9 | 400.8 | 411.1 | 426.2 | 457.3 | 474.8  | 479.1  |
| 50°    | 34.0  | 41.3  | 119.7 | 180.9 | 342.5 | 383.2 | 395.3 | 411.1 | 442.7 | 459.1  | 464.5  |
| 52.5°  | 31.6  | 37.7  | 102.0 | 160.9 | 323.7 | 365.0 | 378.9 | 395.3 | 425.1 | 440.8  | 444.5  |
| 55°    | 29.1  | 34.6  | 86.8  | 139.7 | 304.2 | 345.5 | 360.7 | 376.5 | 405.6 | 419.0  | 421.4  |
| 57.5°  | 28.0  | 32.2  | 74.0  | 119.7 | 283.6 | 323.7 | 340.6 | 355.2 | 382.5 | 392.8  | 395.3  |
| 60°    | 26.1  | 30.3  | 64.4  | 102.6 | 261.1 | 303.0 | 317.6 | 332.2 | 355.2 | 363.7  | 365.6  |
| 62.5°  | 24.3  | 29.1  | 57.1  | 86.3  | 238.1 | 278.7 | 293.3 | 306.7 | 326.0 | 332.2  | 334.5  |
| 65°    | 23.1  | 28.0  | 51.6  | 74.0  | 214.3 | 253.2 | 267.7 | 279.3 | 295.1 | 301.1  | 302.4  |
| 67.5°  | 21.9  | 26.7  | 47.3  | 63.7  | 190.6 | 227.7 | 238.6 | 249.6 | 261.7 | 267.7  | 268.4  |
| 70°    | 20.0  | 25.5  | 43.7  | 56.5  | 166.4 | 198.6 | 207.6 | 219.2 | 228.9 | 232.0  | 233.8  |
| 72.5°  | 18.8  | 23.7  | 41.3  | 51.1  | 141.5 | 170.6 | 179.1 | 185.8 | 194.3 | 197.3  | 197.3  |
| 75°    | 17.0  | 21.3  | 38.8  | 45.5  | 116.0 | 139.7 | 146.9 | 153.6 | 160.3 | 161.5  | 159.7  |
| 77.5°  | 15.2  | 18.8  | 33.4  | 38.3  | 90.5  | 110.5 | 116.6 | 120.2 | 125.7 | 126.9  | 127.5  |
| 80°    | 12.8  | 16.4  | 26.1  | 29.8  | 65.6  | 81.4  | 85.6  | 88.6  | 93.5  | 93.5   | 94.8   |
| 82.5°  | 9.7   | 12.8  | 18.8  | 21.3  | 44.4  | 55.8  | 59.5  | 61.4  | 64.4  | 64.4   | 64.4   |
| 85°    | 6.1   | 7.9   | 12.1  | 13.9  | 26.7  | 34.0  | 36.5  | 37.0  | 39.5  | 40.1   | 40.1   |
| 87.5°  | 3.1   | 4.3   | 7.9   | 8.5   | 13.9  | 17.7  | 17.7  | 18.8  | 18.8  | 18.2   | 17.7   |
| 90°    | 2.8   | 5.1   | 7.3   | 7.9   | 12.4  | 18.4  | 21.4  | 19.0  | 14.2  | 10.7   | 10.7   |
| 92.5°  | 11.2  | 30.3  | 49.3  | 54.1  | 76.1  | 105.5 | 120.1 | 105.3 | 75.6  | 53.3   | 51.2   |
| 95°    | 27.0  | 61.9  | 96.9  | 105.5 | 187.4 | 296.4 | 351.0 | 313.2 | 237.6 | 180.9  | 174.5  |
| 97.5°  | 46.6  | 77.4  | 108.2 | 115.9 | 252.4 | 434.3 | 525.3 | 501.4 | 453.7 | 417.8  | 405.6  |
| 100°   | 61.7  | 89.6  | 117.6 | 124.6 | 276.0 | 477.9 | 578.9 | 580.6 | 584.1 | 586.7  | 572.2  |
| 102.5° | 74.7  | 100.7 | 126.7 | 133.2 | 286.8 | 491.7 | 594.1 | 624.5 | 685.3 | 730.9  | 718.4  |
| 105°   | 96.5  | 118.6 | 140.7 | 146.2 | 294.9 | 493.2 | 592.3 | 660.6 | 797.0 | 899.3  | 892.6  |
| 107.5° | 118.9 | 139.6 | 160.1 | 165.3 | 296.4 | 471.2 | 558.7 | 653.8 | 844.1 | 986.8  | 988.4  |
| 110°   | 134.1 | 152.7 | 171.3 | 176.0 | 294.2 | 451.8 | 530.6 | 637.0 | 849.7 | 1009.3 | 1016.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°    |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 149.0 | 166.7 | 184.4 | 188.8 | 294.3 | 434.8 | 505.1 | 614.0 | 831.7 | 995.0 | 1005.7 |
| 115°   | 171.4 | 187.7 | 204.1 | 208.2 | 297.0 | 415.3 | 474.5 | 579.4 | 789.1 | 946.4 | 961.3  |
| 117.5° | 193.6 | 208.5 | 223.3 | 227.0 | 302.5 | 403.1 | 453.4 | 548.1 | 737.3 | 879.4 | 895.8  |
| 120°   | 206.6 | 220.5 | 234.4 | 238.0 | 306.9 | 399.0 | 445.0 | 531.5 | 704.5 | 834.2 | 850.2  |
| 122.5° | 219.1 | 233.3 | 247.3 | 250.8 | 313.4 | 396.8 | 438.6 | 516.4 | 672.2 | 789.0 | 804.9  |
| 125°   | 238.5 | 251.4 | 264.2 | 267.4 | 322.1 | 395.1 | 431.6 | 497.7 | 630.1 | 729.3 | 743.9  |
| 127.5° | 254.3 | 267.2 | 280.1 | 283.4 | 330.8 | 394.1 | 425.7 | 482.5 | 596.1 | 681.3 | 693.6  |
| 130°   | 262.7 | 276.6 | 290.6 | 294.1 | 337.2 | 394.7 | 423.4 | 474.0 | 575.1 | 651.0 | 662.3  |
| 132.5° | 271.4 | 285.3 | 299.2 | 302.8 | 342.3 | 395.1 | 421.4 | 466.7 | 557.3 | 625.2 | 635.3  |
| 135°   | 284.2 | 296.9 | 309.7 | 312.8 | 347.9 | 394.7 | 418.1 | 456.0 | 531.9 | 588.7 | 597.5  |
| 137.5° | 297.4 | 310.0 | 322.6 | 325.8 | 356.4 | 397.2 | 417.6 | 449.6 | 513.7 | 561.7 | 568.9  |
| 140°   | 308.4 | 320.0 | 331.6 | 334.5 | 361.5 | 397.5 | 415.6 | 443.3 | 498.6 | 540.1 | 546.8  |
| 142.5° | 316.8 | 327.5 | 338.2 | 340.9 | 365.8 | 399.0 | 415.6 | 439.9 | 488.5 | 525.0 | 530.8  |
| 145°   | 329.7 | 339.1 | 348.4 | 350.7 | 371.4 | 399.0 | 412.8 | 432.7 | 472.4 | 502.3 | 506.6  |
| 147.5° | 342.6 | 351.7 | 360.8 | 363.1 | 379.6 | 401.7 | 412.8 | 428.4 | 459.7 | 483.2 | 486.8  |
| 150°   | 351.0 | 359.3 | 367.5 | 369.6 | 384.0 | 403.2 | 412.8 | 426.0 | 452.4 | 472.2 | 475.1  |
| 152.5° | 359.7 | 366.0 | 372.2 | 373.7 | 386.8 | 404.1 | 412.8 | 424.1 | 446.6 | 463.5 | 465.7  |
| 155°   | 372.7 | 377.3 | 381.8 | 383.0 | 392.9 | 406.1 | 412.8 | 421.7 | 439.6 | 453.1 | 454.6  |
| 157.5° | 382.2 | 386.7 | 391.2 | 392.3 | 399.1 | 408.2 | 412.8 | 419.7 | 433.7 | 444.2 | 445.2  |
| 160°   | 388.6 | 392.1 | 395.6 | 396.5 | 401.9 | 409.1 | 412.8 | 418.7 | 430.8 | 439.7 | 440.3  |
| 162.5° | 395.1 | 397.7 | 400.4 | 401.0 | 404.9 | 410.1 | 412.8 | 417.8 | 427.9 | 435.5 | 436.0  |
| 165°   | 402.1 | 404.4 | 406.8 | 407.4 | 409.2 | 411.6 | 412.8 | 416.4 | 423.6 | 429.0 | 429.7  |
| 167.5° | 408.5 | 409.6 | 410.8 | 411.0 | 412.6 | 414.6 | 415.6 | 417.9 | 422.7 | 426.2 | 426.5  |
| 170°   | 412.8 | 413.8 | 415.0 | 415.3 | 415.4 | 415.5 | 415.6 | 417.9 | 422.7 | 426.2 | 426.2  |
| 172.5° | 415.0 | 415.3 | 415.5 | 415.6 | 415.6 | 415.6 | 415.6 | 417.5 | 421.2 | 424.0 | 423.8  |
| 175°   | 418.1 | 418.1 | 418.1 | 418.1 | 417.3 | 416.1 | 415.6 | 416.7 | 419.1 | 420.9 | 420.9  |
| 177.5° | 418.1 | 418.1 | 418.1 | 418.1 | 417.5 | 416.6 | 416.1 | 417.0 | 418.9 | 420.4 | 420.1  |
| 180°   | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1 | 418.1  |



TEST NUMBER: P937059

CATALOG NUMBER: SQ4-FB-075U-050D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 0°     | 188.8  | 188.8  |
| 2.5°   | 201.6  | 200.4  |
| 5°     | 259.3  | 260.5  |
| 7.5°   | 349.1  | 348.6  |
| 10°    | 434.2  | 439.6  |
| 12.5°  | 496.1  | 497.3  |
| 15°    | 533.8  | 536.2  |
| 17.5°  | 548.3  | 549.0  |
| 20°    | 549.0  | 547.7  |
| 22.5°  | 542.3  | 541.0  |
| 25°    | 534.4  | 533.8  |
| 27.5°  | 527.1  | 527.7  |
| 30°    | 524.0  | 525.9  |
| 32.5°  | 524.0  | 527.1  |
| 35°    | 525.3  | 528.3  |
| 37.5°  | 524.6  | 528.3  |
| 40°    | 522.2  | 526.4  |
| 42.5°  | 515.6  | 518.6  |
| 45°    | 505.2  | 508.9  |
| 47.5°  | 491.9  | 494.3  |
| 50°    | 474.8  | 477.3  |
| 52.5°  | 453.6  | 454.2  |
| 55°    | 428.1  | 430.5  |
| 57.5°  | 400.8  | 401.3  |
| 60°    | 370.4  | 372.2  |
| 62.5°  | 338.3  | 338.3  |
| 65°    | 304.2  | 305.4  |
| 67.5°  | 269.0  | 272.0  |
| 70°    | 233.2  | 233.8  |
| 72.5°  | 198.0  | 198.0  |
| 75°    | 161.5  | 162.1  |
| 77.5°  | 126.9  | 126.9  |
| 80°    | 94.1   | 94.8   |
| 82.5°  | 65.0   | 66.2   |
| 85°    | 40.6   | 40.6   |
| 87.5°  | 18.8   | 17.0   |
| 90°    | 10.7   | 10.7   |
| 92.5°  | 42.7   | 34.2   |
| 95°    | 148.9  | 123.2  |
| 97.5°  | 356.7  | 307.8  |
| 100°   | 514.0  | 455.7  |
| 102.5° | 668.6  | 618.7  |
| 105°   | 865.8  | 839.0  |
| 107.5° | 995.0  | 1001.5 |
| 110°   | 1044.2 | 1072.2 |





TEST NUMBER: P937059

CATALOG NUMBER: SQ4-FB-075U-050D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

|        | 80°    | 90°    |
|--------|--------|--------|
| 112.5° | 1048.6 | 1091.5 |
| 115°   | 1020.8 | 1080.3 |
| 117.5° | 961.8  | 1027.8 |
| 120°   | 914.3  | 978.4  |
| 122.5° | 868.0  | 931.3  |
| 125°   | 802.1  | 860.3  |
| 127.5° | 742.7  | 791.8  |
| 130°   | 707.7  | 753.1  |
| 132.5° | 676.0  | 716.6  |
| 135°   | 632.5  | 667.6  |
| 137.5° | 597.6  | 626.3  |
| 140°   | 573.7  | 600.5  |
| 142.5° | 553.8  | 576.9  |
| 145°   | 524.1  | 541.6  |
| 147.5° | 501.3  | 515.8  |
| 150°   | 486.9  | 498.7  |
| 152.5° | 474.6  | 483.4  |
| 155°   | 460.5  | 466.3  |
| 157.5° | 449.3  | 453.4  |
| 160°   | 442.6  | 445.0  |
| 162.5° | 438.3  | 440.5  |
| 165°   | 432.0  | 434.4  |
| 167.5° | 427.5  | 428.5  |
| 170°   | 426.2  | 426.2  |
| 172.5° | 422.9  | 422.0  |
| 175°   | 420.9  | 420.9  |
| 177.5° | 419.1  | 418.1  |
| 180°   | 418.1  | 418.1  |



TEST NUMBER: P937059

CATALOG NUMBER: SQ4-FB-075U-050D-93050-1D-UNV-STD-W-4-4000K

**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 | 1.38             | 2.15  | 2.45  | 3.22  | 4.69  | 14.53          | 15.29 | 15.60 | 16.37 | 17.84 |
|                 | 3H   | 2.08             | 2.77  | 3.16  | 3.85  | 5.34  | 16.35          | 17.03 | 17.42 | 18.12 | 19.60 |
|                 | 4H   | 2.38             | 3.03  | 3.47  | 4.12  | 5.61  | 16.98          | 17.63 | 18.07 | 18.71 | 20.21 |
|                 | 6H   | 2.63             | 3.23  | 3.72  | 4.32  | 5.82  | 17.39          | 17.99 | 18.49 | 19.08 | 20.58 |
|                 | 8H   | 2.69             | 3.26  | 3.79  | 4.37  | 5.87  | 17.50          | 18.07 | 18.60 | 19.18 | 20.68 |
|                 | 12H  | 2.71             | 3.25  | 3.81  | 4.35  | 5.87  | 17.56          | 18.10 | 18.67 | 19.20 | 20.72 |
| 4H              | 2H   | 8.57             | 9.22  | 9.66  | 10.30 | 11.80 | 14.79          | 15.45 | 15.89 | 16.53 | 18.02 |
|                 | 3H   | 10.13            | 10.67 | 11.23 | 11.79 | 13.29 | 16.81          | 17.36 | 17.92 | 18.47 | 19.98 |
|                 | 4H   | 10.22            | 10.72 | 11.33 | 11.82 | 13.35 | 17.57          | 18.07 | 18.68 | 19.17 | 20.70 |
|                 | 6H   | 10.23            | 10.66 | 11.34 | 11.78 | 13.30 | 18.09          | 18.52 | 19.20 | 19.64 | 21.16 |
|                 | 8H   | 10.20            | 10.60 | 11.32 | 11.72 | 13.25 | 18.24          | 18.64 | 19.36 | 19.76 | 21.29 |
|                 | 12H  | 10.15            | 10.52 | 11.29 | 11.65 | 13.19 | 18.32          | 18.69 | 19.45 | 19.82 | 21.35 |
| 8H              | 4H   | 11.65            | 12.05 | 12.76 | 13.17 | 14.70 | 17.62          | 18.02 | 18.74 | 19.14 | 20.67 |
|                 | 6H   | 11.88            | 12.22 | 13.02 | 13.38 | 14.91 | 18.23          | 18.57 | 19.37 | 19.72 | 21.25 |
|                 | 8H   | 11.90            | 12.19 | 13.05 | 13.33 | 14.88 | 18.44          | 18.73 | 19.59 | 19.87 | 21.42 |
|                 | 12H  | 11.86            | 12.12 | 13.01 | 13.26 | 14.84 | 18.57          | 18.83 | 19.72 | 19.97 | 21.55 |
| 12H             | 4H   | 11.78            | 12.15 | 12.91 | 13.28 | 14.81 | 17.57          | 17.93 | 18.70 | 19.06 | 20.60 |
|                 | 6H   | 12.14            | 12.43 | 13.28 | 13.57 | 15.12 | 18.21          | 18.51 | 19.36 | 19.65 | 21.20 |
|                 | 8H   | 12.20            | 12.46 | 13.35 | 13.60 | 15.18 | 18.43          | 18.69 | 19.58 | 19.82 | 21.41 |