

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: P936857

Luminaire Tested: SQ4-FB-050U-100D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936857
REPORT IS A COMBINATION OF REPORTS P933471 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-050U-100D-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

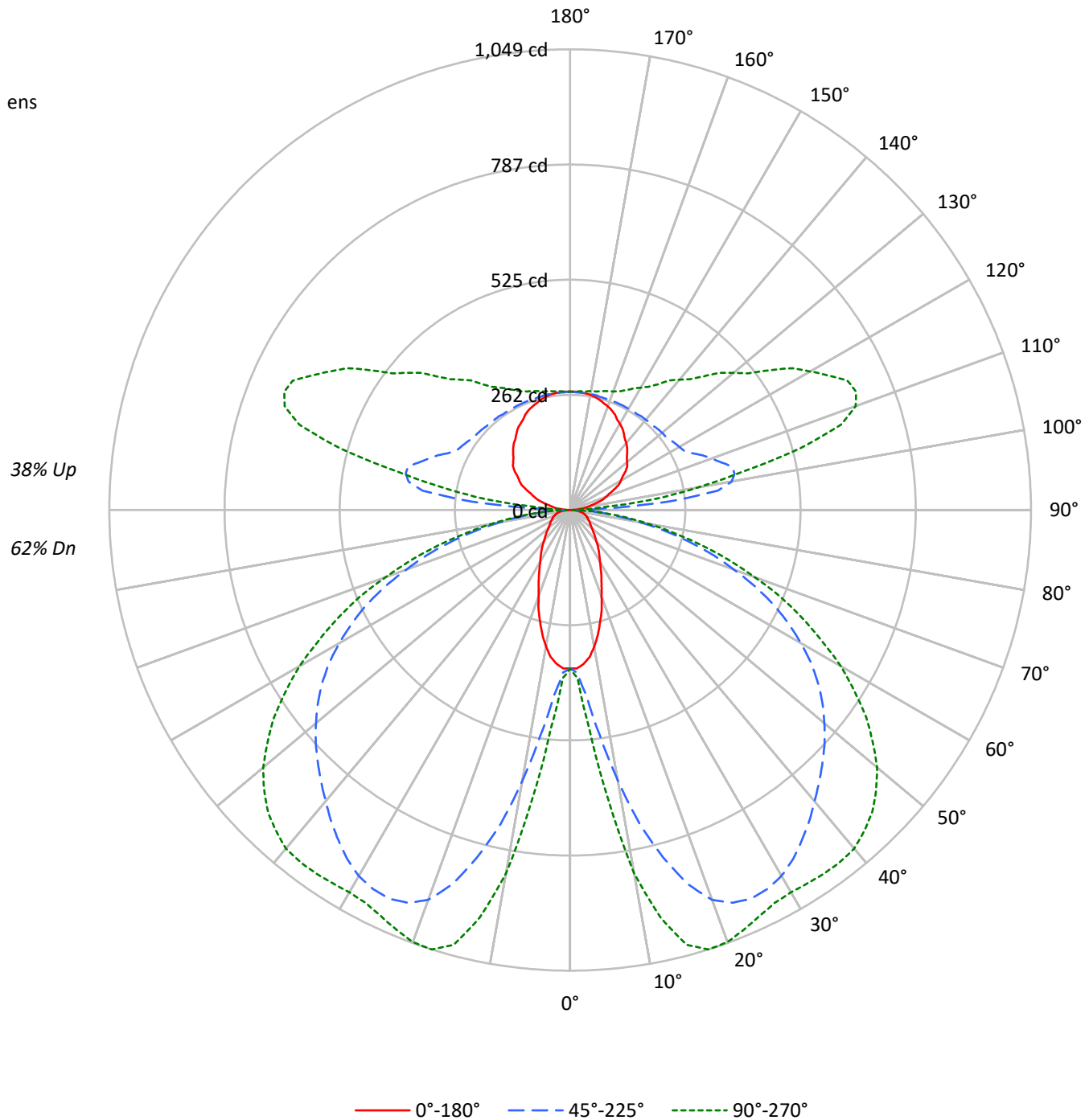
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4541.7 lumens
Efficiency: N/A
Efficacy: 100.5 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-Direct

Input Watts (W): 45.2
Input Voltage (V): NR
Input Current (A_{in}): 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: P936857
CATALOG NUMBER: SQ4-FB-050U-100D-93050-1D-UNV-STD-W-4-3000K

Luminous Intensity Polar Plot



TEST NUMBER: P936857

CATALOG NUMBER: SQ4-FB-050U-100D-93050-1D-UNV-STD-W-4-3000K

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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 67 | 67 | 67 | 62 |
| 1 | 100 | 95 | 91 | 87 | 93 | 89 | 85 | 82 | 78 | 75 | 72 | 67 | 65 | 63 | 58 | 56 | 55 | 55 | 55 | 55 | 50 |
| 2 | 90 | 82 | 75 | 70 | 84 | 77 | 71 | 66 | 67 | 63 | 59 | 58 | 55 | 52 | 50 | 48 | 45 | 45 | 45 | 45 | 41 |
| 3 | 82 | 72 | 64 | 57 | 76 | 67 | 60 | 54 | 59 | 53 | 49 | 51 | 47 | 43 | 44 | 40 | 38 | 38 | 38 | 38 | 34 |
| 4 | 74 | 63 | 54 | 48 | 69 | 59 | 51 | 45 | 52 | 46 | 41 | 45 | 40 | 36 | 39 | 35 | 32 | 32 | 32 | 32 | 28 |
| 5 | 68 | 56 | 47 | 41 | 63 | 52 | 44 | 39 | 46 | 40 | 35 | 40 | 35 | 31 | 34 | 30 | 27 | 27 | 27 | 27 | 24 |
| 6 | 63 | 50 | 41 | 35 | 58 | 47 | 39 | 33 | 41 | 35 | 30 | 36 | 31 | 27 | 31 | 27 | 23 | 23 | 23 | 23 | 21 |
| 7 | 58 | 45 | 36 | 30 | 54 | 42 | 34 | 29 | 37 | 31 | 26 | 32 | 27 | 23 | 28 | 24 | 21 | 21 | 21 | 21 | 18 |
| 8 | 53 | 40 | 32 | 26 | 50 | 38 | 30 | 25 | 34 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 18 | 18 | 18 | 16 |
| 9 | 50 | 37 | 29 | 23 | 46 | 35 | 27 | 22 | 31 | 24 | 20 | 27 | 22 | 18 | 23 | 19 | 16 | 16 | 16 | 16 | 14 |
| 10 | 46 | 33 | 26 | 21 | 43 | 32 | 25 | 20 | 28 | 22 | 18 | 25 | 20 | 16 | 21 | 17 | 14 | 14 | 14 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3349 | 3349 | 3349 |
| 5° | 3269 | 3867 | 4502 |
| 10° | 2962 | 5634 | 7463 |
| 15° | 2514 | 7356 | 9011 |
| 20° | 2044 | 8518 | 9184 |
| 25° | 1703 | 8907 | 8998 |
| 30° | 1434 | 8956 | 8980 |
| 35° | 1266 | 8800 | 9213 |
| 40° | 1101 | 8599 | 9453 |
| 45° | 995 | 8450 | 9490 |
| 50° | 911 | 8315 | 9333 |
| 55° | 870 | 8120 | 8919 |
| 60° | 888 | 7753 | 8266 |
| 65° | 919 | 7200 | 7368 |
| 70° | 972 | 6266 | 6225 |
| 75° | 1066 | 5097 | 4858 |
| 80° | 1137 | 3521 | 3272 |
| 85° | 961 | 1858 | 1674 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9490 cd/sqm



TEST NUMBER: P936857

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.7 | 1.0 |
| 10°-20° | 206.9 | 4.6 |
| 20°-30° | 361.9 | 8.0 |
| 30°-40° | 465.9 | 10.3 |
| 40°-50° | 520.4 | 11.5 |
| 50°-60° | 498.4 | 11.0 |
| 60°-70° | 395.0 | 8.7 |
| 70°-80° | 232.3 | 5.1 |
| 80°-90° | 65.5 | 1.4 |
| 90°-100° | 131.5 | 2.9 |
| 100°-110° | 345.7 | 7.6 |
| 110°-120° | 358.4 | 7.9 |
| 120°-130° | 287.5 | 6.3 |
| 130°-140° | 225.6 | 5.0 |
| 140°-150° | 173.1 | 3.8 |
| 150°-160° | 124.7 | 2.7 |
| 160°-170° | 76.3 | 1.7 |
| 170°-180° | 25.8 | 0.6 |
| 0°-30° | 615.5 | 13.6 |
| 0°-40° | 1081.5 | 23.8 |
| 0°-60° | 2100.3 | 46.2 |
| 0°-90° | 2793.1 | 61.5 |
| 90°-120° | 835.6 | 18.4 |
| 90°-150° | 1521.8 | 33.5 |
| 90°-180° | 1749.0 | 38.5 |
| 0°-180° | 4541.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 361 | 361 | 361 | 361 | 361 | |
| 5° | 352 | 377 | 425 | 480 | 498 | 32 |
| 15° | 263 | 486 | 819 | 993 | 1025 | 73 |
| 25° | 168 | 551 | 976 | 1019 | 1020 | 78 |
| 35° | 114 | 527 | 919 | 971 | 1010 | 71 |
| 45° | 78 | 420 | 812 | 931 | 972 | 60 |
| 55° | 56 | 267 | 689 | 801 | 823 | 51 |
| 65° | 44 | 142 | 512 | 576 | 584 | 44 |
| 75° | 32 | 87 | 281 | 309 | 310 | 34 |
| 85° | 12 | 27 | 70 | 77 | 78 | 12 |
| 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: P936857

CATALOG NUMBER: SQ4-FB-050U-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 22.5° | 30° | 40° | 45° | 50° | 60° | 67.5° | 70° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 360.9 | 360.9 | 360.9 | 360.9 | 360.9 | 360.9 | 360.9 | 360.9 | 360.9 | 360.9 | 360.9 |
| 2.5° | 360.9 | 360.9 | 363.3 | 364.4 | 366.7 | 367.9 | 370.2 | 372.5 | 379.5 | 380.7 | 382.9 |
| 5° | 351.7 | 356.3 | 371.3 | 377.1 | 393.4 | 415.4 | 424.7 | 439.9 | 471.2 | 480.4 | 486.2 |
| 7.5° | 337.7 | 348.2 | 385.3 | 394.6 | 435.2 | 493.3 | 517.6 | 550.1 | 600.0 | 624.4 | 644.1 |
| 10° | 315.7 | 337.7 | 403.8 | 425.9 | 492.0 | 580.3 | 625.5 | 670.8 | 746.2 | 779.8 | 792.7 |
| 12.5° | 291.3 | 327.3 | 423.6 | 453.7 | 548.9 | 677.8 | 732.3 | 782.2 | 868.1 | 913.3 | 920.3 |
| 15° | 263.4 | 312.1 | 442.1 | 486.2 | 609.3 | 759.0 | 819.4 | 880.8 | 960.9 | 993.4 | 1001.5 |
| 17.5° | 239.1 | 300.6 | 459.5 | 506.0 | 655.7 | 832.1 | 893.6 | 944.7 | 1009.7 | 1031.7 | 1037.5 |
| 20° | 208.9 | 282.0 | 471.2 | 531.5 | 704.5 | 885.5 | 944.7 | 984.1 | 1028.2 | 1042.2 | 1044.5 |
| 22.5° | 186.8 | 262.3 | 478.1 | 540.8 | 736.9 | 918.0 | 967.9 | 999.2 | 1029.4 | 1034.0 | 1035.2 |
| 25° | 168.3 | 240.2 | 477.0 | 551.2 | 764.8 | 937.7 | 976.0 | 999.2 | 1016.6 | 1018.9 | 1018.9 |
| 27.5° | 150.9 | 215.9 | 472.4 | 553.6 | 785.6 | 942.3 | 972.5 | 988.8 | 996.9 | 1001.5 | 1001.5 |
| 30° | 135.8 | 192.6 | 460.8 | 548.9 | 795.0 | 937.7 | 962.1 | 970.2 | 978.3 | 985.3 | 988.8 |
| 32.5° | 124.2 | 170.6 | 443.4 | 539.6 | 796.1 | 926.1 | 943.5 | 948.1 | 959.7 | 976.0 | 981.9 |
| 35° | 113.7 | 148.5 | 423.6 | 526.9 | 789.2 | 907.5 | 919.1 | 923.8 | 947.0 | 971.4 | 979.5 |
| 37.5° | 103.3 | 132.3 | 398.0 | 504.8 | 778.7 | 885.5 | 893.6 | 901.8 | 937.7 | 966.7 | 976.0 |
| 40° | 92.8 | 118.4 | 367.9 | 480.4 | 762.5 | 858.8 | 865.7 | 878.6 | 926.1 | 959.7 | 969.0 |
| 42.5° | 84.8 | 106.8 | 335.4 | 455.0 | 741.5 | 828.6 | 839.0 | 857.7 | 912.2 | 948.1 | 958.6 |
| 45° | 77.7 | 95.1 | 300.6 | 420.1 | 714.8 | 797.3 | 812.3 | 837.9 | 896.0 | 930.7 | 940.0 |
| 47.5° | 70.8 | 87.0 | 264.6 | 384.2 | 685.9 | 766.0 | 785.6 | 814.7 | 873.9 | 907.5 | 915.6 |
| 50° | 65.0 | 79.0 | 228.6 | 345.9 | 654.5 | 732.3 | 755.5 | 785.6 | 846.1 | 877.3 | 887.8 |
| 52.5° | 60.3 | 71.9 | 195.0 | 307.6 | 618.6 | 697.5 | 724.2 | 755.5 | 812.3 | 842.6 | 849.5 |
| 55° | 55.7 | 66.1 | 166.0 | 266.9 | 581.4 | 660.3 | 689.4 | 719.5 | 775.3 | 800.7 | 805.4 |
| 57.5° | 53.4 | 61.5 | 141.6 | 228.6 | 542.0 | 618.6 | 651.1 | 678.9 | 731.1 | 750.9 | 755.5 |
| 60° | 49.9 | 58.1 | 123.0 | 196.1 | 499.1 | 579.1 | 607.0 | 634.8 | 678.9 | 695.2 | 698.6 |
| 62.5° | 46.5 | 55.7 | 109.1 | 164.8 | 455.0 | 532.7 | 560.5 | 586.1 | 623.2 | 634.8 | 639.5 |
| 65° | 44.1 | 53.4 | 98.6 | 141.6 | 409.6 | 483.9 | 511.8 | 533.8 | 564.0 | 575.6 | 577.9 |
| 67.5° | 41.8 | 51.0 | 90.6 | 121.8 | 364.4 | 435.2 | 456.1 | 477.0 | 500.2 | 511.8 | 512.9 |
| 70° | 38.3 | 48.7 | 83.5 | 107.9 | 317.9 | 379.5 | 396.9 | 418.9 | 437.5 | 443.4 | 446.8 |
| 72.5° | 36.0 | 45.2 | 79.0 | 97.5 | 270.4 | 326.1 | 342.4 | 355.1 | 371.3 | 377.1 | 377.1 |
| 75° | 32.5 | 40.6 | 74.3 | 87.0 | 221.7 | 266.9 | 280.9 | 293.6 | 306.4 | 308.7 | 305.2 |
| 77.5° | 29.0 | 36.0 | 63.9 | 73.1 | 172.9 | 211.2 | 222.8 | 229.8 | 240.2 | 242.6 | 243.7 |
| 80° | 24.3 | 31.4 | 49.9 | 56.8 | 125.3 | 155.5 | 163.6 | 169.4 | 178.7 | 178.7 | 181.0 |
| 82.5° | 18.5 | 24.3 | 36.0 | 40.6 | 84.8 | 106.8 | 113.7 | 117.3 | 123.0 | 123.0 | 123.0 |
| 85° | 11.6 | 15.1 | 23.2 | 26.7 | 51.0 | 65.0 | 69.6 | 70.8 | 75.4 | 76.6 | 76.6 |
| 87.5° | 5.8 | 8.1 | 15.1 | 16.2 | 26.7 | 33.6 | 33.6 | 36.0 | 36.0 | 34.8 | 33.6 |
| 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 |



TEST NUMBER: P936857

CATALOG NUMBER: SQ4-FB-050U-100D-93050-1D-UNV-STD-W-4-3000K

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-100D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

| | 80° | 90° |
|--------|--------|--------|
| 0° | 360.9 | 360.9 |
| 2.5° | 385.3 | 382.9 |
| 5° | 495.5 | 497.9 |
| 7.5° | 667.3 | 666.1 |
| 10° | 829.8 | 840.2 |
| 12.5° | 948.1 | 950.5 |
| 15° | 1020.1 | 1024.7 |
| 17.5° | 1048.0 | 1049.1 |
| 20° | 1049.1 | 1046.8 |
| 22.5° | 1036.4 | 1034.0 |
| 25° | 1021.3 | 1020.1 |
| 27.5° | 1007.3 | 1008.5 |
| 30° | 1001.5 | 1005.0 |
| 32.5° | 1001.5 | 1007.3 |
| 35° | 1003.9 | 1009.7 |
| 37.5° | 1002.7 | 1009.7 |
| 40° | 998.1 | 1006.2 |
| 42.5° | 985.3 | 991.1 |
| 45° | 965.6 | 972.5 |
| 47.5° | 940.0 | 944.7 |
| 50° | 907.5 | 912.2 |
| 52.5° | 866.9 | 868.1 |
| 55° | 818.1 | 822.8 |
| 57.5° | 766.0 | 767.1 |
| 60° | 707.9 | 711.4 |
| 62.5° | 646.4 | 646.4 |
| 65° | 581.4 | 583.7 |
| 67.5° | 514.2 | 520.0 |
| 70° | 445.6 | 446.8 |
| 72.5° | 378.4 | 378.4 |
| 75° | 308.7 | 309.9 |
| 77.5° | 242.6 | 242.6 |
| 80° | 179.9 | 181.0 |
| 82.5° | 124.2 | 126.5 |
| 85° | 77.7 | 77.7 |
| 87.5° | 36.0 | 32.5 |
| 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: P936857

CATALOG NUMBER: SQ4-FB-050U-100D-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: P936857
 CATALOG NUMBER: SQ4-FB-050U-100D-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 | 6.17 | 7.20 | 7.02 | 8.07 | 9.16 | 19.31 | 20.34 | 20.16 | 21.21 | 22.30 |
| | 3H | 6.89 | 7.81 | 7.75 | 8.70 | 9.82 | 21.15 | 22.07 | 22.00 | 22.95 | 24.07 |
| | 4H | 7.20 | 8.07 | 8.07 | 8.96 | 10.09 | 21.79 | 22.67 | 22.66 | 23.55 | 24.68 |
| | 6H | 7.46 | 8.26 | 8.34 | 9.16 | 10.30 | 22.22 | 23.03 | 23.10 | 23.92 | 25.06 |
| | 8H | 7.53 | 8.30 | 8.42 | 9.21 | 10.36 | 22.34 | 23.11 | 23.23 | 24.02 | 25.16 |
| | 12H | 7.55 | 8.29 | 8.45 | 9.19 | 10.36 | 22.40 | 23.14 | 23.30 | 24.05 | 25.22 |
| 4H | 2H | 13.38 | 14.26 | 14.26 | 15.15 | 16.28 | 19.61 | 20.48 | 20.48 | 21.37 | 22.50 |
| | 3H | 14.97 | 15.70 | 15.86 | 16.62 | 17.77 | 21.65 | 22.39 | 22.54 | 23.31 | 24.45 |
| | 4H | 15.07 | 15.74 | 15.97 | 16.66 | 17.83 | 22.42 | 23.09 | 23.32 | 24.00 | 25.17 |
| | 6H | 15.09 | 15.67 | 16.01 | 16.61 | 17.78 | 22.95 | 23.53 | 23.87 | 24.47 | 25.65 |
| | 8H | 15.07 | 15.62 | 15.99 | 16.55 | 17.74 | 23.11 | 23.66 | 24.03 | 24.59 | 25.78 |
| | 12H | 15.04 | 15.53 | 15.98 | 16.48 | 17.67 | 23.21 | 23.70 | 24.15 | 24.65 | 25.84 |
| 8H | 4H | 16.52 | 17.06 | 17.44 | 18.00 | 19.18 | 22.49 | 23.04 | 23.41 | 23.97 | 25.16 |
| | 6H | 16.77 | 17.22 | 17.71 | 18.20 | 19.38 | 23.12 | 23.57 | 24.06 | 24.54 | 25.73 |
| | 8H | 16.79 | 17.19 | 17.74 | 18.15 | 19.36 | 23.33 | 23.73 | 24.29 | 24.70 | 25.90 |
| | 12H | 16.77 | 17.12 | 17.73 | 18.08 | 19.33 | 23.48 | 23.83 | 24.43 | 24.79 | 26.04 |
| 12H | 4H | 16.67 | 17.16 | 17.61 | 18.11 | 19.30 | 22.45 | 22.94 | 23.39 | 23.90 | 25.09 |
| | 6H | 17.03 | 17.43 | 17.98 | 18.39 | 19.60 | 23.10 | 23.50 | 24.06 | 24.47 | 25.67 |
| | 8H | 17.10 | 17.46 | 18.06 | 18.42 | 19.67 | 23.33 | 23.69 | 24.29 | 24.64 | 25.90 |