

## Indoor Distribution Test Report

# Spectrum Lighting Inc.

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## Spectrum Lighting Photometric Lab

### Luminaire

SGECS4SQFX 10L 35HK XX CA4FX SO MW  
Nom 4" square Chicago Plenum downlight, Solite lens, Matte white finish

### Test Number

SP-01183\_M-10L

### Test Date

6/16/2020

The results contained in this report pertain only to this IES file.

### Summary of Results

#### Power

|             |       |
|-------------|-------|
| Input Watts | 8.1 W |
|-------------|-------|

#### Lumen Output

|               |             |
|---------------|-------------|
| Output Lumens | 823         |
| Efficacy      | 101.62 lm/W |

#### Luminous Dimensions

|                 |     |
|-----------------|-----|
| 0° - 180° Size  | 0.3 |
| 90° - 270° Size | 0.3 |
| Height          | 0   |

#### Spacing Criterion

|                           |      |
|---------------------------|------|
| Two luminaires, plane 0°  | 1.04 |
| Two luminaires, plane 90° | 1.05 |
| Four luminaires           | 1.09 |

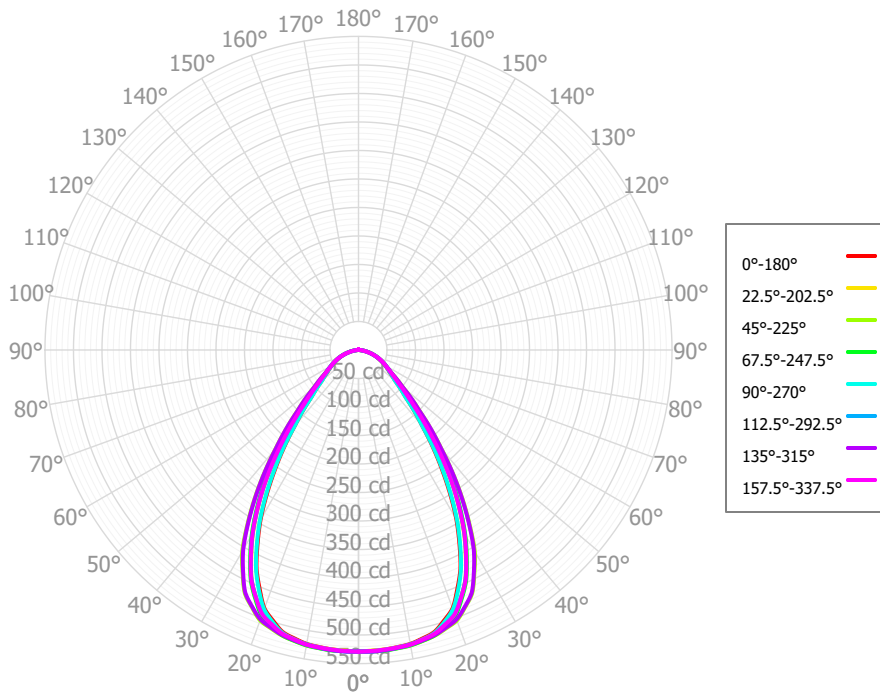
#### Full Beam Angle

|            |     |
|------------|-----|
| 0° - 180°  | 69° |
| 90° - 270° | 69° |

### IES File Header Contents

| Keyword   | Value   |
|-----------|---|
| TEST      | SP-01183_M-10L  |
| TESTLAB   | Spectrum Lighting Photometric Lab, VLS-245-981                            |
| MANUFAC   | Spectrum Lighting   |
| TESTDATE  | 6/16/2020   |
| ISSUEDATE | 7/20/2020   |
| LUMCAT    | SGECS4SQFX 10L 35HK XX CA4FX SO MW  |
| LUMINAIRE | Nom 4" square Chicago Plenum downlight, Solite lens, Matte white finish   |
| OTHER     | Beam angle: 69.3 deg  |
| LAMPCAT   | N/A   |
| LAMP      | N/A, 90CRI/35HK   |
| OTHER     | Total luminaire wattage is approximate                                    |
| OTHER     | CCT Output Multipliers: 27HK x 0.93, 30HK x 0.97, 35HK x 1.0, 40HK x 1.02 |
| OTHER     | This report prepared by Spectrum Lighting, scaled from 20L, 27HK          |

### Candela Polar Plot



### Zonal Lumen Summary

| Zone            | Lumens | % Fixture | Zone              | Lumens | % Fixture |
|-----------------|--------|-----------|-------------------|--------|-----------|
| 0.00° - 10.00°  | 51.07  | 6.20%     | 90.00° - 100.00°  | 0.77   | 0.09%     |
| 10.00° - 20.00° | 144.85 | 17.60%    | 100.00° - 110.00° | 0.65   | 0.08%     |
| 20.00° - 30.00° | 201.86 | 24.52%    | 100.00° - 120.00° | 1.26   | 0.15%     |
| 30.00° - 40.00° | 177.96 | 21.62%    | 120.00° - 130.00° | 0.59   | 0.07%     |
| 40.00° - 50.00° | 107.29 | 13.03%    | 130.00° - 140.00° | 0.52   | 0.06%     |
| 50.00° - 60.00° | 63.35  | 7.70%     | 140.00° - 150.00° | 0.45   | 0.06%     |
| 60.00° - 70.00° | 43.24  | 5.25%     | 150.00° - 160.00° | 0.33   | 0.04%     |
| 70.00° - 80.00° | 23.30  | 2.83%     | 160.00° - 170.00° | 0.21   | 0.03%     |
| 80.00° - 90.00° | 5.99   | 0.73%     | 170.00° - 180.00° | 0.07   | 0.01%     |
| 0.00° - 90.00°  | 818.90 | 99.49%    | 0.00° - 180.00°   | 823.10 | 100.00%   |

### Candela Distribution

|         | 0.00°  | 22.50° | 45.00° | 67.50° | 90.00° | 112.50° | 135.00° | 157.50° | 180.00° | 202.50° | 225.00° | 247.50° | 270.00° | 292.50° | 315.00° | 337.50° | 360.00° |
|---------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0.00°   | 529.09 | 529.09 | 529.09 | 529.09 | 529.09 | 529.09  | 529.09  | 529.09  | 529.09  | 529.09  | 529.09  | 529.09  | 529.09  | 529.09  | 529.09  | 529.09  | 529.09  |
| 2.50°   | 528.47 | 527.84 | 528.49 | 528.84 | 528.70 | 529.48  | 529.42  | 528.52  | 528.47  | 527.84  | 528.49  | 528.84  | 528.70  | 529.48  | 529.42  | 528.52  | 528.47  |
| 5.00°   | 527.45 | 527.39 | 528.57 | 529.23 | 528.09 | 528.16  | 528.55  | 527.55  | 527.45  | 527.39  | 528.57  | 529.23  | 528.09  | 528.16  | 528.55  | 527.55  | 527.45  |
| 7.50°   | 525.66 | 526.21 | 527.53 | 527.70 | 526.59 | 526.50  | 527.00  | 526.19  | 525.66  | 526.21  | 527.53  | 527.70  | 526.59  | 526.50  | 527.00  | 526.19  | 525.66  |
| 10.00°  | 523.60 | 524.91 | 526.15 | 526.05 | 524.44 | 524.63  | 524.97  | 524.79  | 523.60  | 524.91  | 526.15  | 526.05  | 524.44  | 524.63  | 524.97  | 524.79  | 523.60  |
| 12.50°  | 518.43 | 520.50 | 522.57 | 522.27 | 519.87 | 520.74  | 521.56  | 520.15  | 518.43  | 520.50  | 522.57  | 522.27  | 519.87  | 520.74  | 521.56  | 520.15  | 518.43  |
| 15.00°  | 512.48 | 515.81 | 518.56 | 517.96 | 513.95 | 515.92  | 517.40  | 515.18  | 512.48  | 515.81  | 518.56  | 517.96  | 513.95  | 515.92  | 517.40  | 515.18  | 512.48  |
| 17.50°  | 498.13 | 505.69 | 511.81 | 508.21 | 500.64 | 505.51  | 510.68  | 505.10  | 498.13  | 505.69  | 511.81  | 508.21  | 500.64  | 505.51  | 510.68  | 505.10  | 498.13  |
| 20.00°  | 482.50 | 494.88 | 504.74 | 496.30 | 484.22 | 493.23  | 502.90  | 493.48  | 482.50  | 494.88  | 504.74  | 496.30  | 484.22  | 493.23  | 502.90  | 493.48  | 482.50  |
| 22.50°  | 453.37 | 469.96 | 488.47 | 472.75 | 456.47 | 469.91  | 487.50  | 470.27  | 453.37  | 469.96  | 488.47  | 472.75  | 456.47  | 469.91  | 487.50  | 470.27  | 453.37  |
| 25.00°  | 423.27 | 443.83 | 471.43 | 446.67 | 425.18 | 443.99  | 469.87  | 444.84  | 423.27  | 443.83  | 471.43  | 446.67  | 425.18  | 443.99  | 469.87  | 444.84  | 423.27  |
| 27.50°  | 383.58 | 407.38 | 440.21 | 411.41 | 386.48 | 408.43  | 438.52  | 408.99  | 383.58  | 407.38  | 440.21  | 411.41  | 386.48  | 408.43  | 438.52  | 408.99  | 383.58  |
| 30.00°  | 343.54 | 370.05 | 407.76 | 374.45 | 346.25 | 371.49  | 404.56  | 371.68  | 343.54  | 370.05  | 407.76  | 374.45  | 346.25  | 371.49  | 404.56  | 371.68  | 343.54  |
| 32.50°  | 299.05 | 328.43 | 362.37 | 333.20 | 302.47 | 329.89  | 360.46  | 329.78  | 299.05  | 328.43  | 362.37  | 333.20  | 302.47  | 329.89  | 360.46  | 329.78  | 299.05  |
| 35.00°  | 254.97 | 286.32 | 316.86 | 291.16 | 258.28 | 287.98  | 315.22  | 287.52  | 254.97  | 286.32  | 316.86  | 291.16  | 258.28  | 287.98  | 315.22  | 287.52  | 254.97  |
| 37.50°  | 213.81 | 242.60 | 270.70 | 247.65 | 216.19 | 244.98  | 270.01  | 244.46  | 213.81  | 242.60  | 270.70  | 247.65  | 216.19  | 244.98  | 270.01  | 244.46  | 213.81  |
| 40.00°  | 174.67 | 201.35 | 226.25 | 206.46 | 174.44 | 202.50  | 225.05  | 203.81  | 174.67  | 201.35  | 226.25  | 206.46  | 174.44  | 202.50  | 225.05  | 203.81  | 174.67  |
| 42.50°  | 144.57 | 165.97 | 187.86 | 168.66 | 144.73 | 167.68  | 187.77  | 167.31  | 144.57  | 165.97  | 187.86  | 168.66  | 144.73  | 167.68  | 187.77  | 167.31  | 144.57  |
| 45.00°  | 117.55 | 135.02 | 152.59 | 136.80 | 116.11 | 134.52  | 151.51  | 136.30  | 117.55  | 135.02  | 152.59  | 136.80  | 116.11  | 134.52  | 151.51  | 136.30  | 117.55  |
| 47.50°  | 99.81  | 111.83 | 125.41 | 111.58 | 99.16  | 112.43  | 125.47  | 112.48  | 99.81   | 111.83  | 125.41  | 111.58  | 99.16   | 112.43  | 125.47  | 112.48  | 99.81   |
| 50.00°  | 84.46  | 92.86  | 101.84 | 92.85  | 83.39  | 92.23   | 101.06  | 93.75   | 84.46   | 92.86   | 101.84  | 92.85   | 83.39   | 92.23   | 101.06  | 93.75   | 84.46   |
| 52.50°  | 74.25  | 79.69  | 85.16  | 79.66  | 74.61  | 80.11   | 85.39   | 80.13   | 74.25   | 79.69   | 85.16   | 79.66   | 74.61   | 80.11   | 85.39   | 80.13   | 74.25   |
| 55.00°  | 65.71  | 69.16  | 71.40  | 69.54  | 66.42  | 69.33   | 71.26   | 69.64   | 65.71   | 69.16   | 71.40   | 69.54   | 66.42   | 69.33   | 71.26   | 69.64   | 65.71   |
| 57.50°  | 59.94  | 61.40  | 61.83  | 61.47  | 60.43  | 62.42   | 62.52   | 61.63   | 59.94   | 61.40   | 61.83   | 61.47   | 60.43   | 62.42   | 62.52   | 61.63   | 59.94   |
| 60.00°  | 54.32  | 55.10  | 53.82  | 55.39  | 54.55  | 55.91   | 54.49   | 55.35   | 54.32   | 55.10   | 53.82   | 55.39   | 54.55   | 55.91   | 54.49   | 55.35   | 54.32   |
| 62.50°  | 48.90  | 49.98  | 47.57  | 50.32  | 48.97  | 50.24   | 48.25   | 50.12   | 48.90   | 49.98   | 47.57   | 50.32   | 48.97   | 50.24   | 48.25   | 50.12   | 48.90   |
| 65.00°  | 43.46  | 44.64  | 41.99  | 44.57  | 43.45  | 44.51   | 42.37   | 44.56   | 43.46   | 44.64   | 41.99   | 44.57   | 43.45   | 44.51   | 42.37   | 44.56   | 43.46   |
| 67.50°  | 37.98  | 39.17  | 37.01  | 38.58  | 38.08  | 38.69   | 37.15   | 38.85   | 37.98   | 39.17   | 37.01   | 38.58   | 38.08   | 38.69   | 37.15   | 38.85   | 37.98   |
| 70.00°  | 32.55  | 33.54  | 31.96  | 33.04  | 32.57  | 32.98   | 31.85   | 33.09   | 32.55   | 33.54   | 31.96   | 33.04   | 32.57   | 32.98   | 31.85   | 33.09   | 32.55   |
| 72.50°  | 27.15  | 27.83  | 26.88  | 27.63  | 26.85  | 27.41   | 26.45   | 27.32   | 27.15   | 27.83   | 26.88   | 27.63   | 26.85   | 27.41   | 26.45   | 27.32   | 27.15   |
| 75.00°  | 21.94  | 22.47  | 21.88  | 22.25  | 21.62  | 22.09   | 21.34   | 21.83   | 21.94   | 22.47   | 21.88   | 22.25   | 21.62   | 22.09   | 21.34   | 21.83   | 21.94   |
| 77.50°  | 16.85  | 17.24  | 16.94  | 16.86  | 16.97  | 17.02   | 16.56   | 16.39   | 16.85   | 17.24   | 16.94   | 16.86   | 16.97   | 17.02   | 16.56   | 16.39   | 16.85   |
| 80.00°  | 12.15  | 12.46  | 12.67  | 12.37  | 12.56  | 12.37   | 12.18   | 11.97   | 12.15   | 12.46   | 12.67   | 12.37   | 12.56   | 12.37   | 12.18   | 11.97   | 12.15   |
| 82.50°  | 7.63   | 7.79   | 8.67   | 7.96   | 8.36   | 8.03    | 8.14    | 7.68    | 7.63    | 7.79    | 8.67    | 7.96    | 8.36    | 8.03    | 8.14    | 7.68    | 7.63    |
| 85.00°  | 4.66   | 4.90   | 5.34   | 4.93   | 5.17   | 4.83    | 4.89    | 4.87    | 4.66    | 4.90    | 5.34    | 4.93    | 5.17    | 4.83    | 4.89    | 4.87    | 4.66    |
| 87.50°  | 2.19   | 2.27   | 2.18   | 2.03   | 2.68   | 2.26    | 2.14    | 2.16    | 2.19    | 2.27    | 2.18    | 2.03    | 2.68    | 2.26    | 2.14    | 2.16    | 2.19    |
| 90.00°  | 1.28   | 1.38   | 1.25   | 1.26   | 1.41   | 1.15    | 0.97    | 1.40    | 1.28    | 1.38    | 1.25    | 1.26    | 1.41    | 1.15    | 0.97    | 1.40    | 1.28    |
| 92.50°  | 0.71   | 0.61   | 0.70   | 0.58   | 0.76   | 0.64    | 0.58    | 0.68    | 0.71    | 0.61    | 0.70    | 0.58    | 0.76    | 0.64    | 0.58    | 0.68    | 0.71    |
| 95.00°  | 0.62   | 0.65   | 0.70   | 0.54   | 0.61   | 0.55    | 0.54    | 0.60    | 0.62    | 0.65    | 0.70    | 0.54    | 0.61    | 0.55    | 0.54    | 0.60    | 0.62    |
| 97.50°  | 0.60   | 0.69   | 0.74   | 0.52   | 0.65   | 0.58    | 0.63    | 0.52    | 0.60    | 0.69    | 0.74    | 0.52    | 0.65    | 0.58    | 0.63    | 0.52    | 0.60    |
| 100.00° | 0.55   | 0.68   | 0.63   | 0.58   | 0.62   | 0.59    | 0.67    | 0.51    | 0.55    | 0.68    | 0.63    | 0.58    | 0.62    | 0.59    | 0.67    | 0.51    | 0.55    |
| 102.50° | 0.50   | 0.68   | 0.53   | 0.63   | 0.56   | 0.60    | 0.71    | 0.53    | 0.50    | 0.68    | 0.53    | 0.63    | 0.56    | 0.60    | 0.71    | 0.53    | 0.50    |
| 105.00° | 0.56   | 0.69   | 0.54   | 0.63   | 0.49   | 0.61    | 0.73    | 0.64    | 0.56    | 0.69    | 0.54    | 0.63    | 0.49    | 0.61    | 0.73    | 0.64    | 0.56    |
| 107.50° | 0.62   | 0.69   | 0.56   | 0.63   | 0.42   | 0.62    | 0.75    | 0.72    | 0.62    | 0.69    | 0.56    | 0.63    | 0.42    | 0.62    | 0.75    | 0.72    | 0.62    |
| 110.00° | 0.65   | 0.62   | 0.62   | 0.63   | 0.44   | 0.65    | 0.65    | 0.72    | 0.65    | 0.62    | 0.62    | 0.63    | 0.44    | 0.65    | 0.65    | 0.72    | 0.65    |
| 112.50° | 0.67   | 0.58   | 0.68   | 0.64   | 0.46   | 0.67    | 0.53    | 0.70    | 0.67    | 0.58    | 0.68    | 0.64    | 0.46    | 0.67    | 0.53    | 0.70    | 0.67    |

### Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

|            |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>RCR</b> | <b>pfc</b> | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 0%  |
|            | <b>pcc</b> | 80% | 80% | 80% | 80% | 70% | 70% | 70% | 70% | 50% | 50% | 50% | 30% | 30% | 30% | 10% | 10% | 0%  |
|            | <b>pw</b>  | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 30% |
|            | <b>0</b>   | 979 | 979 | 979 | 979 | 956 | 956 | 956 | 956 | 912 | 912 | 912 | 873 | 873 | 873 | 836 | 836 | 819 |
|            | <b>1</b>   | 916 | 886 | 858 | 834 | 894 | 867 | 842 | 820 | 832 | 812 | 794 | 800 | 784 | 769 | 771 | 758 | 742 |
|            | <b>2</b>   | 853 | 800 | 757 | 720 | 833 | 785 | 745 | 711 | 757 | 723 | 695 | 730 | 703 | 679 | 706 | 683 | 669 |
|            | <b>3</b>   | 795 | 726 | 673 | 631 | 776 | 714 | 665 | 625 | 690 | 648 | 614 | 668 | 633 | 604 | 648 | 619 | 606 |
|            | <b>4</b>   | 742 | 663 | 604 | 560 | 725 | 652 | 598 | 556 | 632 | 586 | 549 | 614 | 574 | 541 | 597 | 563 | 551 |
|            | <b>5</b>   | 694 | 607 | 547 | 502 | 678 | 599 | 542 | 499 | 582 | 532 | 494 | 567 | 523 | 489 | 552 | 514 | 504 |
|            | <b>6</b>   | 650 | 559 | 498 | 454 | 636 | 552 | 494 | 452 | 538 | 487 | 448 | 525 | 479 | 445 | 512 | 472 | 463 |
|            | <b>7</b>   | 611 | 517 | 456 | 414 | 598 | 511 | 453 | 412 | 499 | 447 | 409 | 487 | 441 | 407 | 477 | 436 | 428 |
|            | <b>8</b>   | 575 | 480 | 420 | 379 | 563 | 474 | 418 | 378 | 464 | 413 | 376 | 454 | 408 | 374 | 445 | 403 | 396 |
|            | <b>9</b>   | 542 | 447 | 389 | 349 | 531 | 442 | 386 | 348 | 433 | 382 | 347 | 425 | 378 | 345 | 417 | 375 | 368 |
|            | <b>10</b>  | 512 | 418 | 361 | 323 | 503 | 413 | 359 | 322 | 406 | 356 | 321 | 398 | 352 | 320 | 391 | 349 | 344 |

### Cone of Light

| Mtg Height | Light Level | Beam Diameter |
|------------|-------------|---------------|
| 5.5 ft     | 17.5 fc     | 7.5 ft        |
| 6.5 ft     | 12.5 fc     | 8.9 ft        |
| 7.5 ft     | 9.4 fc      | 10.3 ft       |
| 8.0 ft     | 8.3 fc      | 11.0 ft       |
| 10.0 ft    | 5.3 fc      | 13.7 ft       |
| 12.0 ft    | 3.7 fc      | 16.5 ft       |
| 14.0 ft    | 2.7 fc      | 19.2 ft       |
| 16.0 ft    | 2.1 fc      | 21.9 ft       |
| 20.0 ft    | 1.3 fc      | 27.4 ft       |
| 24.0 ft    | 0.9 fc      | 32.9 ft       |
| 28.0 ft    | 0.7 fc      | 38.4 ft       |

### Average Luminaire Luminance [cd/m²]

|               | 0.00°  | 45.00° | 90.00° |
|---------------|--------|--------|--------|
| <b>0.00°</b>  | 63,279 | 63,279 | 63,279 |
| <b>45.00°</b> | 19,883 | 25,809 | 19,639 |
| <b>55.00°</b> | 13,701 | 14,888 | 13,850 |
| <b>65.00°</b> | 12,298 | 11,884 | 12,297 |
| <b>75.00°</b> | 10,140 | 10,113 | 9,992  |
| <b>85.00°</b> | 6,400  | 7,323  | 7,100  |

### UGR CIE 190:2010

|                            |            |                         |            |            |            |            |                       |            |            |            |            |
|----------------------------|------------|-------------------------|------------|------------|------------|------------|-----------------------|------------|------------|------------|------------|
| <b>Ceiling reflectance</b> |            | <b>0.7</b>              | <b>0.7</b> | <b>0.5</b> | <b>0.5</b> | <b>0.3</b> | <b>0.7</b>            | <b>0.7</b> | <b>0.5</b> | <b>0.5</b> | <b>0.3</b> |
| <b>Wall reflectance</b>    |            | <b>0.5</b>              | <b>0.3</b> | <b>0.5</b> | <b>0.3</b> | <b>0.3</b> | <b>0.5</b>            | <b>0.3</b> | <b>0.5</b> | <b>0.3</b> | <b>0.3</b> |
| <b>Plane reflectance</b>   |            | <b>0.2</b>              | <b>0.2</b> | <b>0.2</b> | <b>0.2</b> | <b>0.2</b> | <b>0.2</b>            | <b>0.2</b> | <b>0.2</b> | <b>0.2</b> | <b>0.2</b> |
| <b>Room dimensions</b>     |            | <b>Viewed crosswise</b> |            |            |            |            | <b>Viewed endwise</b> |            |            |            |            |
| <b>2H</b>                  | <b>2H</b>  | 18.9                    | 20.2       | 19.2       | 20.5       | 20.8       | 18.9                  | 20.2       | 19.3       | 20.5       | 20.9       |
|                            | <b>3H</b>  | 20.5                    | 21.7       | 20.9       | 22.0       | 22.4       | 20.5                  | 21.7       | 20.9       | 22.0       | 22.4       |
|                            | <b>4H</b>  | 21.1                    | 22.1       | 21.5       | 22.5       | 22.9       | 21.1                  | 22.2       | 21.5       | 22.5       | 22.9       |
|                            | <b>6H</b>  | 21.4                    | 22.4       | 21.9       | 22.8       | 23.2       | 21.4                  | 22.4       | 21.9       | 22.8       | 23.2       |
|                            | <b>8H</b>  | 21.5                    | 22.4       | 21.9       | 22.8       | 23.3       | 21.5                  | 22.5       | 22.0       | 22.9       | 23.3       |
|                            | <b>12H</b> | 21.5                    | 22.4       | 22.0       | 22.8       | 23.3       | 21.6                  | 22.5       | 22.0       | 22.9       | 23.3       |
| <b>4H</b>                  | <b>2H</b>  | 19.4                    | 20.4       | 19.8       | 20.8       | 21.2       | 19.4                  | 20.5       | 19.8       | 20.8       | 21.2       |
|                            | <b>3H</b>  | 21.2                    | 22.1       | 21.6       | 22.5       | 22.9       | 21.2                  | 22.1       | 21.6       | 22.5       | 22.9       |
|                            | <b>4H</b>  | 21.9                    | 22.7       | 22.3       | 23.1       | 23.6       | 21.9                  | 22.7       | 22.3       | 23.1       | 23.6       |
|                            | <b>6H</b>  | 22.4                    | 23.0       | 22.8       | 23.5       | 24.0       | 22.4                  | 23.1       | 22.8       | 23.5       | 24.0       |
|                            | <b>8H</b>  | 22.5                    | 23.1       | 22.9       | 23.6       | 24.1       | 22.5                  | 23.1       | 23.0       | 23.6       | 24.1       |
|                            | <b>12H</b> | 22.5                    | 23.1       | 23.0       | 23.6       | 24.1       | 22.6                  | 23.2       | 23.1       | 23.6       | 24.1       |
| <b>8H</b>                  | <b>4H</b>  | 22.1                    | 22.7       | 22.6       | 23.2       | 23.7       | 22.1                  | 22.8       | 22.6       | 23.2       | 23.7       |
|                            | <b>6H</b>  | 22.7                    | 23.2       | 23.2       | 23.7       | 24.2       | 22.7                  | 23.2       | 23.2       | 23.7       | 24.2       |
|                            | <b>8H</b>  | 22.8                    | 23.3       | 23.4       | 23.8       | 24.3       | 22.9                  | 23.3       | 23.4       | 23.9       | 24.4       |
|                            | <b>12H</b> | 23.0                    | 23.4       | 23.5       | 23.9       | 24.5       | 23.0                  | 23.4       | 23.5       | 23.9       | 24.5       |
| <b>12H</b>                 | <b>4H</b>  | 22.1                    | 22.7       | 22.6       | 23.2       | 23.7       | 22.1                  | 22.7       | 22.6       | 23.2       | 23.7       |
|                            | <b>6H</b>  | 22.7                    | 23.2       | 23.2       | 23.6       | 24.2       | 22.7                  | 23.2       | 23.3       | 23.7       | 24.2       |
|                            | <b>8H</b>  | 22.9                    | 23.3       | 23.4       | 23.8       | 24.4       | 22.9                  | 23.4       | 23.5       | 23.9       | 24.4       |

Corrected UGR values based on total output lumens

SHR = 1.0