

## **Indoor Distribution Test Report**

# **Spectrum Lighting Inc.**

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## **Spectrum Lighting Photometric Lab**

### **Luminaire**

IF03RMx xx 835 015 DLWFGC MW  
Nominal 3" diam round recessed Infinium downlight

### **Test Number**

SP-00761\_M-015L

### **Test Date**

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

### Summary of Results

#### Power

|             |        |
|-------------|--------|
| Input Watts | 12.2 W |
|-------------|--------|

#### Lumen Output

|               |            |
|---------------|------------|
| Output Lumens | 938        |
| Efficacy      | 76.88 lm/W |

#### Luminous Dimensions

|                 |      |
|-----------------|------|
| 0° - 180° Size  | -0.2 |
| 90° - 270° Size | -0.2 |
| Height          | 0    |

#### Spacing Criterion

|                           |      |
|---------------------------|------|
| Two luminaires, plane 0°  | 0.96 |
| Two luminaires, plane 90° | 0.96 |
| Four luminaires           | 0.9  |

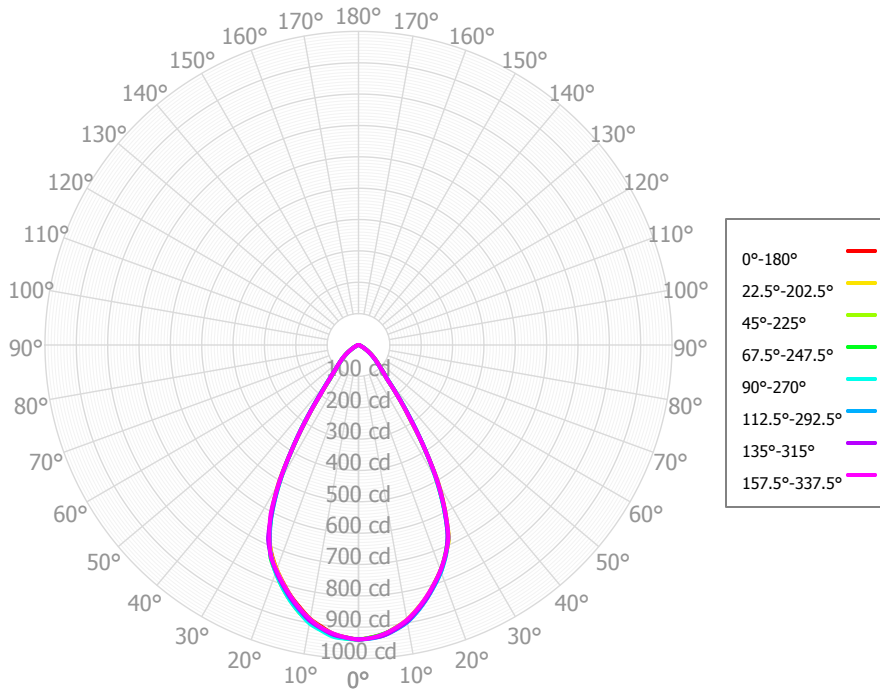
#### Full Beam Angle

|            |     |
|------------|-----|
| 0° - 180°  | 62° |
| 90° - 270° | 61° |

### IES File Header Contents

| Keyword   | Value  |
|-----------|--|
| TEST      | SP-00761_M-015L  |
| TESTLAB   | Spectrum Lighting Photometric lab, VLS-245-981             |
| MANUFAC   | Spectrum Lighting  |
| ISSUEDATE | 2/8/2019   |
| UPDATE    | 2/27/2019  |
| LUMCAT    | IF03RMx xx 835 015 DLWFGC MW                               |
| LUMINAIRE | Nominal 3" diam round recessed Infinium downlight          |
| OTHER     | Beam Angle: 62 degrees                                     |
| OTHER     | Wide flood optic, Clear glass lens                         |
| OTHER     | Aluminum bezel contains lens                               |
| LAMPCAT   | N/A  |
| LAMP      | N/A, CRI: 80, Philips                                      |
| OTHER     | CCT Multipliers: 40K x 1.03                                |
| OTHER     | Total luminaire wattages is approximate                    |
| OTHER     | This report prepared by Spectrum Lighting, scaled from 20L |

### Candela Polar Plot



### Zonal Lumen Summary

| Zone            | Lumens | % Fixture | Zone              | Lumens | % Fixture |
|-----------------|--------|-----------|-------------------|--------|-----------|
| 0.00° - 10.00°  | 88.61  | 9.45%     | 90.00° - 100.00°  | 0.05   | 0.01%     |
| 10.00° - 20.00° | 234.06 | 24.95%    | 100.00° - 110.00° | 0.00   | 0.00%     |
| 20.00° - 30.00° | 300.45 | 32.03%    | 100.00° - 120.00° | 0.00   | 0.00%     |
| 30.00° - 40.00° | 185.32 | 19.76%    | 120.00° - 130.00° | 0.00   | 0.00%     |
| 40.00° - 50.00° | 74.90  | 7.99%     | 130.00° - 140.00° | 0.00   | 0.00%     |
| 50.00° - 60.00° | 38.04  | 4.06%     | 140.00° - 150.00° | 0.00   | 0.00%     |
| 60.00° - 70.00° | 12.34  | 1.32%     | 150.00° - 160.00° | 0.00   | 0.00%     |
| 70.00° - 80.00° | 3.18   | 0.34%     | 160.00° - 170.00° | 0.00   | 0.00%     |
| 80.00° - 90.00° | 1.00   | 0.11%     | 170.00° - 180.00° | 0.00   | 0.00%     |
| 0.00° - 90.00°  | 937.90 | 99.99%    | 0.00° - 180.00°   | 937.95 | 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°   | 939.16 | 939.16 | 939.16 | 939.16 | 939.16 | 939.16  | 939.16  | 939.16  | 939.16  | 939.16  | 939.16  | 939.16  | 939.16  | 939.16  | 939.16  | 939.16  | 939.16  |
| 2.50°   | 934.16 | 933.45 | 934.10 | 933.77 | 935.81 | 935.02  | 933.88  | 933.62  | 933.22  | 934.08  | 933.57  | 937.16  | 937.77  | 937.14  | 935.60  | 935.31  | 934.16  |
| 5.00°   | 926.34 | 925.51 | 925.69 | 924.59 | 929.36 | 926.16  | 927.49  | 923.93  | 924.66  | 925.66  | 925.45  | 929.16  | 933.87  | 929.75  | 930.02  | 925.36  | 926.34  |
| 7.50°   | 909.41 | 909.17 | 909.89 | 911.25 | 914.34 | 912.59  | 910.75  | 909.92  | 906.12  | 909.11  | 910.90  | 916.74  | 918.11  | 915.81  | 914.01  | 909.96  | 909.41  |
| 10.00°  | 891.06 | 889.66 | 892.73 | 893.17 | 896.74 | 892.96  | 893.39  | 888.45  | 886.99  | 888.42  | 892.83  | 896.88  | 901.74  | 897.65  | 895.54  | 890.06  | 891.06  |
| 12.50°  | 863.52 | 862.61 | 864.23 | 868.03 | 867.90 | 868.12  | 864.34  | 862.01  | 858.84  | 862.02  | 866.63  | 873.53  | 873.07  | 870.66  | 867.43  | 863.55  | 863.52  |
| 15.00°  | 834.71 | 833.35 | 834.41 | 836.12 | 837.99 | 838.22  | 835.00  | 831.61  | 830.09  | 831.95  | 837.66  | 842.80  | 844.02  | 839.10  | 837.50  | 832.60  | 834.71  |
| 17.50°  | 800.19 | 800.39 | 799.91 | 802.46 | 804.59 | 804.69  | 802.25  | 799.04  | 796.63  | 797.78  | 803.60  | 809.38  | 808.97  | 805.10  | 802.22  | 799.58  | 800.19  |
| 20.00°  | 764.87 | 766.63 | 765.11 | 767.43 | 769.02 | 768.53  | 768.81  | 764.96  | 762.28  | 762.17  | 767.61  | 771.89  | 772.99  | 770.09  | 765.42  | 765.42  | 764.87  |
| 22.50°  | 726.95 | 724.94 | 723.42 | 723.37 | 728.02 | 730.85  | 728.56  | 730.22  | 723.35  | 725.21  | 728.70  | 733.27  | 728.99  | 725.55  | 725.18  | 723.75  | 726.95  |
| 25.00°  | 677.86 | 682.09 | 679.70 | 673.62 | 673.28 | 669.14  | 682.08  | 672.34  | 676.25  | 670.17  | 673.03  | 669.83  | 678.32  | 677.91  | 671.99  | 678.78  | 677.86  |
| 27.50°  | 599.56 | 595.51 | 592.60 | 593.38 | 591.15 | 596.40  | 595.69  | 606.59  | 598.23  | 601.39  | 596.79  | 601.21  | 591.22  | 592.81  | 594.79  | 596.73  | 599.56  |
| 30.00°  | 509.27 | 505.13 | 503.38 | 497.26 | 500.01 | 500.10  | 504.83  | 505.28  | 510.03  | 505.51  | 503.25  | 500.04  | 500.16  | 498.74  | 504.59  | 502.06  | 509.27  |
| 32.50°  | 394.40 | 392.27 | 392.13 | 394.39 | 394.29 | 395.08  | 394.45  | 394.75  | 392.89  | 393.03  | 392.43  | 394.38  | 393.90  | 394.12  | 394.99  | 394.06  | 394.40  |
| 35.00°  | 290.78 | 279.48 | 285.63 | 288.74 | 296.83 | 298.21  | 291.30  | 294.52  | 286.21  | 292.15  | 292.54  | 296.28  | 293.32  | 287.76  | 294.73  | 282.52  | 290.78  |
| 37.50°  | 205.56 | 207.63 | 208.44 | 212.29 | 210.17 | 203.63  | 211.30  | 196.23  | 203.07  | 197.15  | 201.78  | 198.77  | 209.76  | 211.72  | 205.75  | 207.89  | 205.56  |
| 40.00°  | 144.72 | 139.07 | 141.30 | 145.05 | 149.29 | 154.66  | 145.97  | 151.19  | 140.04  | 146.03  | 146.03  | 153.17  | 142.84  | 138.95  | 145.69  | 140.22  | 144.72  |
| 42.50°  | 117.08 | 116.18 | 116.81 | 114.35 | 116.26 | 114.87  | 117.98  | 112.51  | 113.43  | 112.36  | 114.02  | 109.67  | 114.40  | 113.81  | 114.86  | 113.67  | 117.08  |
| 45.00°  | 95.73  | 94.37  | 94.57  | 92.52  | 93.03  | 96.06   | 94.46   | 95.31   | 92.06   | 92.24   | 93.00   | 93.83   | 91.01   | 91.03   | 92.73   | 92.05   | 95.73   |
| 47.50°  | 81.34  | 80.86  | 79.65  | 78.09  | 78.53  | 80.19   | 79.90   | 79.45   | 78.32   | 76.23   | 77.97   | 78.19   | 76.87   | 77.33   | 77.75   | 78.49   | 81.34   |
| 50.00°  | 67.73  | 67.44  | 65.58  | 64.91  | 65.20  | 67.57   | 66.43   | 66.90   | 65.42   | 64.33   | 65.03   | 65.13   | 63.53   | 63.73   | 64.54   | 65.48   | 67.73   |
| 52.50°  | 54.80  | 54.54  | 53.60  | 52.85  | 52.69  | 55.20   | 54.69   | 54.41   | 53.51   | 53.39   | 53.02   | 52.41   | 51.40   | 52.04   | 52.50   | 53.56   | 54.80   |
| 55.00°  | 43.37  | 42.29  | 42.17  | 40.91  | 41.83  | 42.68   | 43.26   | 42.47   | 42.30   | 42.19   | 41.76   | 42.23   | 40.69   | 40.69   | 41.55   | 41.74   | 43.37   |
| 57.50°  | 33.06  | 32.47  | 31.82  | 31.50  | 31.95  | 30.29   | 32.26   | 30.99   | 31.79   | 30.95   | 30.76   | 32.30   | 31.71   | 32.38   | 31.21   | 31.87   | 33.06   |
| 60.00°  | 24.44  | 23.52  | 22.90  | 22.23  | 23.86  | 22.80   | 23.35   | 24.30   | 23.35   | 23.17   | 23.57   | 23.64   | 23.63   | 24.24   | 22.91   | 22.33   | 24.44   |
| 62.50°  | 16.84  | 16.98  | 16.32  | 16.55  | 16.63  | 15.58   | 16.70   | 17.81   | 16.59   | 15.72   | 17.37   | 15.95   | 16.47   | 17.02   | 15.52   | 16.49   | 16.84   |
| 65.00°  | 12.02  | 11.55  | 11.27  | 11.06  | 11.84  | 11.49   | 11.67   | 12.49   | 11.55   | 11.18   | 12.18   | 11.71   | 11.37   | 10.68   | 10.80   | 11.01   | 12.02   |
| 67.50°  | 8.54   | 8.47   | 8.22   | 8.33   | 7.96   | 7.67    | 7.99    | 7.84    | 7.61    | 7.01    | 7.17    | 8.07    | 7.93    | 7.74    | 7.02    | 7.57    | 8.54    |
| 70.00°  | 5.96   | 5.90   | 5.76   | 5.77   | 5.67   | 4.99    | 5.43    | 5.18    | 5.54    | 5.53    | 5.90    | 5.69    | 5.34    | 5.32    | 5.04    | 4.90    | 5.96    |
| 72.50°  | 3.69   | 3.92   | 3.75   | 3.78   | 3.77   | 3.21    | 3.38    | 3.63    | 4.12    | 4.10    | 4.44    | 3.75    | 3.18    | 3.85    | 3.50    | 4.03    | 3.69    |
| 75.00°  | 2.59   | 2.83   | 2.99   | 2.69   | 2.55   | 2.45    | 2.44    | 3.13    | 3.35    | 2.77    | 2.35    | 2.15    | 2.43    | 2.95    | 2.94    | 3.11    | 2.59    |
| 77.50°  | 1.74   | 2.15   | 2.32   | 2.30   | 1.91   | 2.17    | 1.80    | 2.09    | 2.33    | 1.97    | 1.94    | 1.74    | 1.92    | 2.31    | 2.23    | 2.19    | 1.74    |
| 80.00°  | 1.19   | 1.84   | 1.43   | 2.03   | 1.68   | 1.78    | 1.46    | 1.57    | 1.38    | 1.56    | 1.70    | 1.54    | 1.53    | 1.60    | 1.45    | 1.50    | 1.19    |
| 82.50°  | 0.97   | 1.02   | 1.09   | 1.24   | 0.93   | 1.03    | 1.27    | 1.21    | 1.00    | 1.33    | 1.04    | 1.21    | 0.94    | 1.01    | 0.91    | 1.25    | 0.97    |
| 85.00°  | 0.99   | 0.78   | 0.97   | 0.81   | 1.02   | 0.71    | 0.88    | 0.78    | 0.82    | 0.92    | 0.58    | 0.76    | 0.59    | 0.89    | 0.98    | 1.02    | 0.99    |
| 87.50°  | 0.75   | 0.90   | 0.64   | 0.75   | 0.79   | 0.43    | 0.79    | 0.70    | 0.88    | 0.90    | 0.83    | 0.63    | 0.85    | 0.69    | 0.85    | 0.83    | 0.75    |
| 90.00°  | 0.93   | 0.78   | 0.53   | 0.75   | 0.86   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.82    | 0.87    | 0.73    | 0.93    |
| 92.50°  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 95.00°  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 97.50°  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 100.00° | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 102.50° | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 105.00° | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 107.50° | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 110.00° | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |
| 112.50° | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    |

### 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% | 0%  |
|            | <b>0</b>   | 1,117 | 1,117 | 1,117 | 1,117 | 1,091 | 1,091 | 1,091 | 1,091 | 1,042 | 1,042 | 1,042 | 998 | 998 | 998 | 957 | 957 | 938 |
|            | <b>1</b>   | 1,061 | 1,033 | 1,008 | 986   | 1,037 | 1,013 | 990   | 970   | 974   | 957   | 940   | 939 | 925 | 912 | 907 | 896 | 878 |
|            | <b>2</b>   | 1,004 | 955   | 914   | 881   | 982   | 938   | 902   | 871   | 908   | 878   | 851   | 880 | 855 | 833 | 853 | 833 | 815 |
|            | <b>3</b>   | 949   | 884   | 835   | 795   | 929   | 871   | 825   | 788   | 846   | 808   | 776   | 823 | 791 | 763 | 802 | 775 | 760 |
|            | <b>4</b>   | 897   | 821   | 766   | 724   | 879   | 811   | 759   | 720   | 790   | 746   | 711   | 771 | 733 | 702 | 753 | 721 | 707 |
|            | <b>5</b>   | 848   | 765   | 707   | 664   | 832   | 756   | 702   | 661   | 739   | 691   | 655   | 723 | 681 | 649 | 708 | 672 | 660 |
|            | <b>6</b>   | 803   | 714   | 655   | 612   | 789   | 707   | 651   | 610   | 692   | 643   | 606   | 679 | 635 | 602 | 666 | 628 | 617 |
|            | <b>7</b>   | 761   | 669   | 609   | 568   | 748   | 663   | 606   | 566   | 650   | 600   | 563   | 639 | 594 | 560 | 628 | 588 | 578 |
|            | <b>8</b>   | 722   | 628   | 569   | 528   | 710   | 623   | 566   | 527   | 612   | 561   | 525   | 602 | 556 | 523 | 593 | 551 | 542 |
|            | <b>9</b>   | 686   | 591   | 533   | 494   | 675   | 586   | 531   | 493   | 577   | 527   | 491   | 569 | 522 | 489 | 561 | 518 | 510 |
|            | <b>10</b>  | 653   | 558   | 501   | 463   | 643   | 553   | 499   | 462   | 546   | 495   | 461   | 538 | 492 | 459 | 531 | 489 | 481 |

### Cone of Light

| Mtg Height | Light Level | Beam Diameter |
|------------|-------------|---------------|
| 5.5 ft     | 31.0 fc     | 6.6 ft        |
| 6.5 ft     | 22.2 fc     | 7.7 ft        |
| 7.5 ft     | 16.7 fc     | 8.9 ft        |
| 8.0 ft     | 14.7 fc     | 9.5 ft        |
| 10.0 ft    | 9.4 fc      | 11.9 ft       |
| 12.0 ft    | 6.5 fc      | 14.3 ft       |
| 14.0 ft    | 4.8 fc      | 16.7 ft       |
| 16.0 ft    | 3.7 fc      | 19.1 ft       |
| 20.0 ft    | 2.3 fc      | 23.8 ft       |
| 24.0 ft    | 1.6 fc      | 28.6 ft       |
| 28.0 ft    | 1.2 fc      | 33.4 ft       |

### Average Luminaire Luminance [cd/m²]

|               | 0.00°   | 45.00°  | 90.00°  |
|---------------|---------|---------|---------|
| <b>0.00°</b>  | 321,780 | 321,780 | 321,780 |
| <b>45.00°</b> | 46,385  | 45,825  | 45,076  |
| <b>55.00°</b> | 25,907  | 25,190  | 24,990  |
| <b>65.00°</b> | 9,743   | 9,140   | 9,598   |
| <b>75.00°</b> | 3,429   | 3,953   | 3,374   |
| <b>85.00°</b> | 3,896   | 3,824   | 4,021   |

### 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>  | 17.0                    | 18.1       | 17.4       | 18.4       | 18.7       | 16.8                  | 17.9       | 17.2       | 18.2       | 18.5       |
|                            | <b>3H</b>  | 17.2                    | 18.1       | 17.5       | 18.4       | 18.8       | 16.9                  | 17.9       | 17.3       | 18.2       | 18.6       |
|                            | <b>4H</b>  | 17.1                    | 18.0       | 17.5       | 18.3       | 18.7       | 16.9                  | 17.8       | 17.3       | 18.1       | 18.5       |
|                            | <b>6H</b>  | 17.1                    | 17.9       | 17.5       | 18.2       | 18.6       | 16.9                  | 17.7       | 17.3       | 18.0       | 18.4       |
|                            | <b>8H</b>  | 17.0                    | 17.8       | 17.5       | 18.2       | 18.6       | 16.8                  | 17.6       | 17.3       | 18.0       | 18.4       |
|                            | <b>12H</b> | 17.0                    | 17.7       | 17.4       | 18.1       | 18.5       | 16.8                  | 17.5       | 17.2       | 17.9       | 18.3       |
| <b>4H</b>                  | <b>2H</b>  | 16.9                    | 17.8       | 17.3       | 18.2       | 18.6       | 16.8                  | 17.7       | 17.2       | 18.0       | 18.4       |
|                            | <b>3H</b>  | 17.1                    | 17.8       | 17.5       | 18.2       | 18.7       | 17.0                  | 17.7       | 17.4       | 18.1       | 18.5       |
|                            | <b>4H</b>  | 17.1                    | 17.7       | 17.6       | 18.2       | 18.6       | 16.9                  | 17.6       | 17.4       | 18.0       | 18.4       |
|                            | <b>6H</b>  | 17.1                    | 17.6       | 17.6       | 18.1       | 18.5       | 16.9                  | 17.5       | 17.4       | 17.9       | 18.4       |
|                            | <b>8H</b>  | 17.0                    | 17.5       | 17.5       | 18.0       | 18.5       | 16.9                  | 17.4       | 17.3       | 17.8       | 18.3       |
|                            | <b>12H</b> | 17.0                    | 17.4       | 17.5       | 17.9       | 18.4       | 16.8                  | 17.3       | 17.3       | 17.8       | 18.2       |
| <b>8H</b>                  | <b>4H</b>  | 17.0                    | 17.5       | 17.5       | 18.0       | 18.4       | 16.8                  | 17.3       | 17.3       | 17.8       | 18.2       |
|                            | <b>6H</b>  | 17.0                    | 17.4       | 17.5       | 17.9       | 18.4       | 16.8                  | 17.2       | 17.3       | 17.7       | 18.2       |
|                            | <b>8H</b>  | 17.0                    | 17.3       | 17.5       | 17.8       | 18.3       | 16.8                  | 17.1       | 17.3       | 17.7       | 18.2       |
|                            | <b>12H</b> | 17.0                    | 17.3       | 17.5       | 17.8       | 18.3       | 16.8                  | 17.1       | 17.3       | 17.6       | 18.2       |
| <b>12H</b>                 | <b>4H</b>  | 17.0                    | 17.4       | 17.4       | 17.9       | 18.4       | 16.8                  | 17.2       | 17.3       | 17.7       | 18.2       |
|                            | <b>6H</b>  | 16.9                    | 17.3       | 17.5       | 17.8       | 18.3       | 16.8                  | 17.1       | 17.3       | 17.6       | 18.1       |
|                            | <b>8H</b>  | 16.9                    | 17.2       | 17.4       | 17.7       | 18.3       | 16.8                  | 17.1       | 17.3       | 17.6       | 18.1       |

Corrected UGR values based on total output lumens

SHR = 1.0