

## **Indoor Distribution Test Report**

# **Spectrum Lighting Inc.**

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## **Spectrum Lighting Photometric Lab**

### **Luminaire**

IF03SMx xx 835 007 DLFLGC MW  
Nom 3" Square Infinium recessed downlight

### **Test Number**

SP-00762\_M-007L

### **Test Date**

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

### Summary of Results

#### Power

|             |       |
|-------------|-------|
| Input Watts | 7.4 W |
|-------------|-------|

#### Lumen Output

|               |            |
|---------------|------------|
| Output Lumens | 356        |
| Efficacy      | 48.15 lm/W |

#### Luminous Dimensions

|                 |      |
|-----------------|------|
| 0° - 180° Size  | 0.16 |
| 90° - 270° Size | 0.16 |
| Height          | 0    |

#### Spacing Criterion

|                           |      |
|---------------------------|------|
| Two luminaires, plane 0°  | 0.66 |
| Two luminaires, plane 90° | 0.67 |
| Four luminaires           | 0.71 |

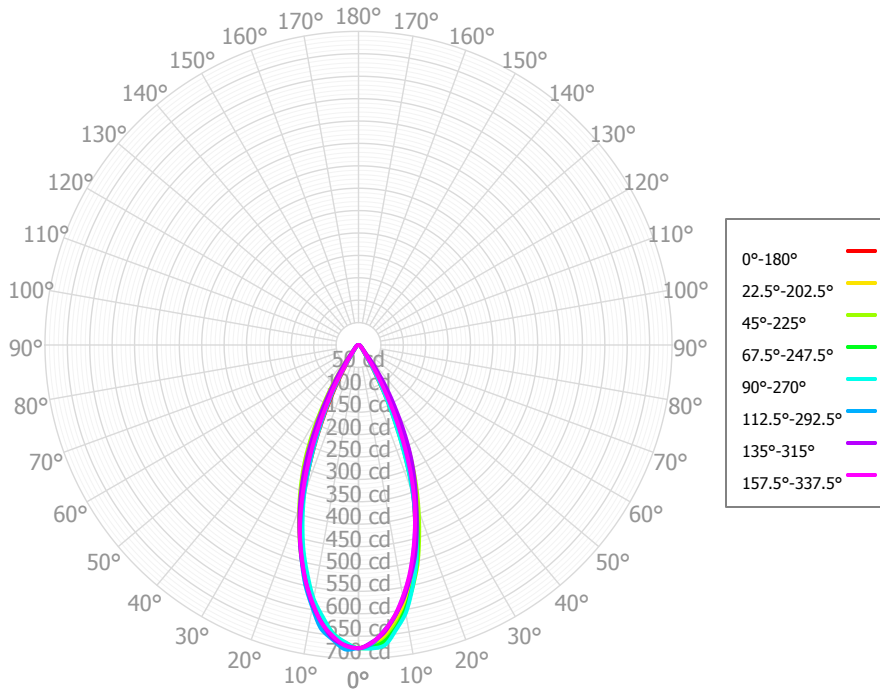
#### Full Beam Angle

|            |     |
|------------|-----|
| 0° - 180°  | 41° |
| 90° - 270° | 41° |

### IES File Header Contents

| Keyword   | Value  |
|-----------|--|
| TEST      | SP-00762_M-007L  |
| TESTLAB   | Spectrum Lighting Photometric Lab, VLS-245-981             |
| MANUFAC   | Spectrum Lighting  |
| ISSUEDATE | 2/11/2019  |
| UPDATE    | 2/28/2019  |
| LUMCAT    | IF03SMx xx 835 007 DLFLGC MW                               |
| LUMINAIRE | Nom 3" Square Infinium recessed downlight                  |
| OTHER     | Beam Angle: 41 degrees                                     |
| OTHER     | Flood optic, Clear glass lens                              |
| OTHER     | Aluminum bezel contains lens                               |
| LAMPCAT   | N/A  |
| LAMP      | N/A, CRI: 80, Philips                                      |
| OTHER     | CCT Multiplier: 40K x 1.03                                 |
| OTHER     | Total luminaire wattage 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°  | 60.88  | 17.08%    | 90.00° - 100.00°  | 0.03   | 0.01%     |
| 10.00° - 20.00° | 133.37 | 37.43%    | 100.00° - 110.00° | 0.00   | 0.00%     |
| 20.00° - 30.00° | 106.05 | 29.76%    | 100.00° - 120.00° | 0.00   | 0.00%     |
| 30.00° - 40.00° | 32.98  | 9.26%     | 120.00° - 130.00° | 0.00   | 0.00%     |
| 40.00° - 50.00° | 9.91   | 2.78%     | 130.00° - 140.00° | 0.00   | 0.00%     |
| 50.00° - 60.00° | 5.94   | 1.67%     | 140.00° - 150.00° | 0.00   | 0.00%     |
| 60.00° - 70.00° | 4.28   | 1.20%     | 150.00° - 160.00° | 0.00   | 0.00%     |
| 70.00° - 80.00° | 2.19   | 0.61%     | 160.00° - 170.00° | 0.00   | 0.00%     |
| 80.00° - 90.00° | 0.72   | 0.20%     | 170.00° - 180.00° | 0.00   | 0.00%     |
| 0.00° - 90.00°  | 356.32 | 99.99%    | 0.00° - 180.00°   | 356.35 | 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°   | 677.01 | 677.01 | 677.01 | 677.01 | 677.01 | 677.01  | 677.01  | 677.01  | 677.01  | 677.01  | 677.01  | 677.01  | 677.01  | 677.01  | 677.01  | 677.01  | 677.01  |
| 2.50°   | 667.25 | 671.22 | 671.29 | 675.74 | 678.15 | 680.24  | 671.11  | 672.12  | 668.29  | 668.16  | 665.32  | 666.91  | 664.69  | 668.76  | 664.69  | 666.34  | 667.25  |
| 5.00°   | 652.30 | 652.52 | 661.90 | 664.69 | 672.91 | 660.37  | 657.73  | 652.96  | 653.85  | 646.82  | 651.03  | 647.03  | 647.01  | 641.96  | 645.60  | 642.01  | 652.30  |
| 7.50°   | 618.61 | 626.79 | 632.19 | 637.81 | 641.55 | 639.22  | 626.07  | 626.79  | 622.09  | 620.35  | 617.37  | 617.08  | 612.18  | 613.25  | 612.28  | 611.56  | 618.61  |
| 10.00°  | 582.36 | 587.47 | 600.20 | 601.05 | 607.73 | 594.28  | 589.95  | 586.73  | 585.77  | 579.45  | 583.08  | 578.56  | 576.13  | 571.87  | 576.73  | 570.98  | 582.36  |
| 12.50°  | 532.49 | 542.90 | 555.57 | 554.13 | 555.84 | 548.66  | 542.45  | 542.52  | 536.94  | 535.08  | 538.09  | 532.48  | 525.80  | 528.36  | 532.53  | 525.53  | 532.49  |
| 15.00°  | 481.62 | 489.95 | 508.17 | 502.15 | 500.64 | 492.26  | 492.54  | 489.95  | 484.68  | 483.54  | 492.38  | 482.73  | 474.39  | 475.30  | 487.48  | 473.56  | 481.62  |
| 17.50°  | 420.26 | 432.40 | 450.01 | 439.10 | 429.00 | 434.13  | 437.81  | 435.58  | 425.08  | 430.81  | 439.36  | 430.29  | 415.59  | 420.30  | 432.51  | 419.62  | 420.26  |
| 20.00°  | 358.19 | 368.91 | 391.84 | 371.71 | 355.35 | 362.15  | 382.24  | 369.16  | 358.49  | 368.69  | 386.46  | 369.54  | 354.12  | 358.92  | 377.20  | 363.47  | 358.19  |
| 22.50°  | 280.57 | 301.73 | 333.67 | 298.74 | 274.38 | 290.66  | 325.31  | 300.88  | 279.61  | 305.64  | 334.26  | 303.84  | 279.99  | 296.39  | 327.08  | 301.29  | 280.57  |
| 25.00°  | 204.01 | 230.69 | 274.40 | 224.02 | 198.53 | 221.63  | 266.18  | 231.12  | 204.70  | 235.73  | 280.61  | 239.97  | 208.90  | 230.85  | 276.67  | 233.64  | 204.01  |
| 27.50°  | 140.65 | 166.35 | 212.53 | 164.37 | 136.79 | 156.68  | 204.14  | 161.23  | 135.39  | 165.57  | 220.85  | 176.97  | 148.30  | 169.94  | 221.56  | 171.69  | 140.65  |
| 30.00°  | 81.45  | 107.91 | 155.80 | 108.15 | 84.25  | 107.39  | 149.20  | 109.99  | 82.85   | 112.53  | 163.66  | 124.72  | 94.47   | 118.44  | 167.52  | 113.95  | 81.45   |
| 32.50°  | 52.01  | 66.71  | 108.56 | 70.97  | 51.79  | 64.68   | 101.96  | 59.77   | 49.58   | 61.20   | 114.75  | 76.61   | 58.64   | 75.39   | 122.39  | 72.14   | 52.01   |
| 35.00°  | 26.68  | 37.85  | 69.45  | 36.74  | 28.67  | 40.82   | 66.00   | 41.69   | 29.49   | 40.69   | 72.07   | 48.91   | 31.47   | 46.10   | 79.89   | 40.13   | 26.68   |
| 37.50°  | 20.87  | 23.86  | 42.79  | 25.82  | 22.00  | 22.99   | 39.99   | 24.42   | 22.09   | 21.78   | 44.80   | 27.20   | 22.60   | 26.24   | 51.27   | 25.14   | 20.87   |
| 40.00°  | 15.84  | 18.45  | 24.73  | 17.21  | 16.90  | 18.58   | 24.72   | 18.99   | 17.00   | 17.31   | 24.45   | 19.42   | 15.90   | 19.13   | 26.94   | 18.52   | 15.84   |
| 42.50°  | 13.54  | 14.86  | 17.31  | 14.88  | 14.01  | 15.13   | 17.36   | 14.00   | 13.73   | 13.23   | 17.57   | 14.67   | 12.89   | 14.39   | 19.37   | 15.02   | 13.54   |
| 45.00°  | 11.42  | 12.14  | 12.82  | 12.80  | 11.76  | 13.41   | 13.22   | 12.28   | 11.46   | 11.34   | 12.38   | 11.99   | 10.37   | 12.25   | 13.20   | 12.72   | 11.42   |
| 47.50°  | 9.80   | 10.46  | 11.29  | 10.73  | 10.27  | 11.60   | 11.00   | 10.64   | 9.81    | 9.57    | 9.92    | 9.62    | 8.57    | 10.25   | 11.08   | 10.68   | 9.80    |
| 50.00°  | 8.35   | 9.16   | 9.66   | 8.72   | 9.02   | 9.69    | 9.27    | 9.43    | 8.40    | 8.29    | 8.07    | 8.68    | 7.17    | 8.37    | 9.13    | 8.71    | 8.35    |
| 52.50°  | 7.30   | 7.61   | 7.97   | 7.64   | 8.01   | 8.05    | 7.77    | 8.23    | 7.13    | 7.16    | 7.01    | 7.87    | 6.24    | 6.98    | 7.56    | 7.80    | 7.30    |
| 55.00°  | 6.34   | 5.98   | 6.81   | 6.60   | 6.96   | 6.75    | 6.91    | 7.08    | 6.03    | 6.50    | 6.24    | 6.52    | 5.49    | 5.96    | 6.31    | 7.13    | 6.34    |
| 57.50°  | 5.54   | 5.22   | 6.00   | 5.80   | 5.88   | 6.07    | 6.31    | 6.01    | 5.01    | 5.86    | 5.77    | 5.17    | 4.91    | 5.42    | 5.67    | 6.41    | 5.54    |
| 60.00°  | 4.92   | 4.64   | 5.57   | 5.10   | 5.32   | 6.00    | 5.88    | 5.13    | 4.64    | 5.27    | 5.30    | 4.85    | 4.44    | 5.17    | 5.20    | 5.67    | 4.92    |
| 62.50°  | 4.57   | 4.41   | 5.35   | 4.87   | 5.10   | 5.57    | 5.50    | 4.44    | 4.49    | 4.69    | 4.81    | 4.53    | 4.06    | 4.84    | 5.00    | 5.12    | 4.57    |
| 65.00°  | 4.22   | 4.23   | 4.70   | 4.58   | 4.63   | 4.83    | 4.75    | 4.21    | 4.10    | 4.18    | 4.23    | 4.15    | 3.88    | 4.47    | 4.61    | 4.58    | 4.22    |
| 67.50°  | 3.88   | 3.94   | 3.88   | 4.07   | 4.04   | 3.97    | 3.93    | 3.82    | 3.64    | 3.67    | 3.59    | 3.73    | 3.82    | 3.81    | 3.98    | 4.10    | 3.88    |
| 70.00°  | 3.52   | 3.59   | 3.24   | 3.41   | 3.15   | 3.04    | 3.00    | 3.21    | 2.90    | 3.16    | 3.02    | 3.09    | 3.18    | 3.06    | 3.31    | 3.59    | 3.52    |
| 72.50°  | 3.14   | 2.87   | 2.63   | 2.50   | 2.20   | 2.39    | 2.22    | 2.63    | 2.25    | 2.54    | 2.49    | 2.60    | 2.40    | 2.60    | 2.62    | 2.94    | 3.14    |
| 75.00°  | 2.29   | 2.10   | 1.85   | 1.98   | 1.85   | 1.83    | 1.72    | 2.07    | 1.89    | 1.88    | 2.21    | 2.32    | 1.91    | 2.15    | 2.20    | 2.29    | 2.29    |
| 77.50°  | 1.57   | 1.27   | 1.34   | 1.63   | 1.41   | 1.38    | 1.25    | 1.54    | 1.64    | 1.21    | 1.60    | 1.81    | 1.60    | 1.67    | 1.81    | 1.66    | 1.57    |
| 80.00°  | 1.28   | 1.09   | 1.10   | 1.38   | 0.94   | 0.99    | 0.95    | 1.22    | 1.28    | 1.08    | 1.01    | 1.36    | 1.34    | 1.27    | 1.33    | 1.37    | 1.28    |
| 82.50°  | 1.09   | 0.82   | 0.91   | 0.97   | 0.88   | 0.76    | 0.77    | 1.00    | 0.88    | 0.82    | 0.89    | 1.07    | 0.88    | 0.93    | 0.78    | 0.99    | 1.09    |
| 85.00°  | 0.58   | 0.63   | 0.64   | 0.46   | 0.39   | 0.41    | 0.58    | 0.66    | 0.67    | 0.49    | 0.51    | 0.70    | 0.48    | 0.68    | 0.63    | 0.64    | 0.58    |
| 87.50°  | 0.53   | 0.47   | 0.43   | 0.54   | 0.31   | 0.47    | 0.49    | 0.55    | 0.50    | 0.40    | 0.48    | 0.38    | 0.48    | 0.48    | 0.37    | 0.51    | 0.53    |
| 90.00°  | 0.35   | 0.51   | 0.45   | 0.51   | 0.38   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.43    | 0.42    | 0.43    | 0.35    |
| 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% | 30% |
|            | <b>0</b>   | 424 | 424 | 424 | 424 | 414 | 414 | 414 | 414 | 396 | 396 | 396 | 379 | 379 | 379 | 364 | 364 | 356 |
|            | <b>1</b>   | 406 | 396 | 388 | 380 | 397 | 389 | 381 | 374 | 374 | 368 | 363 | 361 | 356 | 352 | 349 | 345 | 338 |
|            | <b>2</b>   | 388 | 371 | 358 | 347 | 380 | 365 | 353 | 343 | 354 | 344 | 335 | 343 | 335 | 328 | 334 | 327 | 321 |
|            | <b>3</b>   | 371 | 349 | 333 | 320 | 364 | 345 | 330 | 318 | 335 | 323 | 313 | 327 | 317 | 308 | 319 | 310 | 305 |
|            | <b>4</b>   | 354 | 330 | 312 | 298 | 348 | 326 | 309 | 297 | 319 | 304 | 293 | 312 | 300 | 290 | 305 | 295 | 290 |
|            | <b>5</b>   | 339 | 313 | 294 | 280 | 334 | 309 | 292 | 279 | 303 | 288 | 276 | 297 | 284 | 274 | 292 | 281 | 276 |
|            | <b>6</b>   | 325 | 297 | 278 | 264 | 320 | 294 | 276 | 263 | 289 | 273 | 261 | 284 | 270 | 260 | 280 | 268 | 263 |
|            | <b>7</b>   | 312 | 283 | 263 | 250 | 308 | 280 | 262 | 249 | 276 | 260 | 248 | 272 | 258 | 247 | 268 | 255 | 251 |
|            | <b>8</b>   | 300 | 269 | 250 | 237 | 296 | 268 | 249 | 237 | 264 | 248 | 236 | 260 | 246 | 235 | 257 | 244 | 240 |
|            | <b>9</b>   | 288 | 257 | 239 | 226 | 284 | 256 | 238 | 226 | 253 | 236 | 225 | 250 | 235 | 224 | 247 | 233 | 230 |
|            | <b>10</b>  | 277 | 246 | 228 | 216 | 274 | 245 | 227 | 216 | 242 | 226 | 215 | 240 | 225 | 214 | 237 | 224 | 221 |

### Cone of Light

| Mtg Height | Light Level | Beam Diameter |
|------------|-------------|---------------|
| 5.5 ft     | 22.4 fc     | 4.1 ft        |
| 6.5 ft     | 16.0 fc     | 4.9 ft        |
| 7.5 ft     | 12.0 fc     | 5.6 ft        |
| 8.0 ft     | 10.6 fc     | 6.0 ft        |
| 10.0 ft    | 6.8 fc      | 7.5 ft        |
| 12.0 ft    | 4.7 fc      | 9.0 ft        |
| 14.0 ft    | 3.5 fc      | 10.5 ft       |
| 16.0 ft    | 2.6 fc      | 12.0 ft       |
| 20.0 ft    | 1.7 fc      | 15.0 ft       |
| 24.0 ft    | 1.2 fc      | 18.0 ft       |
| 28.0 ft    | 0.9 fc      | 21.0 ft       |

### Average Luminaire Luminance [cd/m²]

|               | 0.00°   | 45.00°  | 90.00°  |
|---------------|---------|---------|---------|
| <b>0.00°</b>  | 284,661 | 284,661 | 284,661 |
| <b>45.00°</b> | 6,793   | 7,625   | 6,995   |
| <b>55.00°</b> | 4,646   | 4,991   | 5,104   |
| <b>65.00°</b> | 4,200   | 4,680   | 4,610   |
| <b>75.00°</b> | 3,718   | 2,998   | 3,007   |
| <b>85.00°</b> | 2,782   | 3,064   | 1,903   |

### 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>  | 10.2                    | 11.1       | 10.5       | 11.5       | 11.8       | 10.0                  | 11.0       | 10.3       | 11.3       | 11.6       |
|                            | <b>3H</b>  | 12.1                    | 12.9       | 12.5       | 13.3       | 13.6       | 11.8                  | 12.6       | 12.2       | 13.0       | 13.3       |
|                            | <b>4H</b>  | 12.7                    | 13.5       | 13.1       | 13.9       | 14.2       | 12.2                  | 13.0       | 12.7       | 13.4       | 13.8       |
|                            | <b>6H</b>  | 13.0                    | 13.7       | 13.4       | 14.1       | 14.5       | 12.6                  | 13.3       | 13.0       | 13.7       | 14.1       |
|                            | <b>8H</b>  | 13.1                    | 13.8       | 13.6       | 14.2       | 14.6       | 12.7                  | 13.4       | 13.1       | 13.8       | 14.2       |
|                            | <b>12H</b> | 13.2                    | 13.9       | 13.7       | 14.3       | 14.7       | 12.7                  | 13.4       | 13.2       | 13.8       | 14.2       |
| <b>4H</b>                  | <b>2H</b>  | 10.8                    | 11.6       | 11.2       | 12.0       | 12.4       | 10.6                  | 11.4       | 11.0       | 11.8       | 12.2       |
|                            | <b>3H</b>  | 12.9                    | 13.5       | 13.3       | 13.9       | 14.3       | 12.5                  | 13.1       | 12.9       | 13.5       | 14.0       |
|                            | <b>4H</b>  | 13.5                    | 14.1       | 14.0       | 14.5       | 15.0       | 13.1                  | 13.6       | 13.5       | 14.1       | 14.5       |
|                            | <b>6H</b>  | 13.9                    | 14.4       | 14.4       | 14.9       | 15.3       | 13.5                  | 14.0       | 14.0       | 14.4       | 14.9       |
|                            | <b>8H</b>  | 14.1                    | 14.6       | 14.6       | 15.0       | 15.5       | 13.6                  | 14.1       | 14.1       | 14.6       | 15.0       |
|                            | <b>12H</b> | 14.2                    | 14.6       | 14.7       | 15.1       | 15.6       | 13.7                  | 14.1       | 14.2       | 14.6       | 15.1       |
| <b>8H</b>                  | <b>4H</b>  | 13.7                    | 14.1       | 14.1       | 14.6       | 15.1       | 13.2                  | 13.7       | 13.7       | 14.1       | 14.6       |
|                            | <b>6H</b>  | 14.2                    | 14.5       | 14.7       | 15.0       | 15.5       | 13.7                  | 14.1       | 14.3       | 14.6       | 15.1       |
|                            | <b>8H</b>  | 14.4                    | 14.7       | 14.9       | 15.3       | 15.8       | 14.0                  | 14.3       | 14.5       | 14.8       | 15.3       |
|                            | <b>12H</b> | 14.6                    | 14.9       | 15.1       | 15.4       | 16.0       | 14.1                  | 14.4       | 14.7       | 14.9       | 15.5       |
| <b>12H</b>                 | <b>4H</b>  | 13.6                    | 14.0       | 14.1       | 14.5       | 15.0       | 13.2                  | 13.6       | 13.7       | 14.1       | 14.5       |
|                            | <b>6H</b>  | 14.2                    | 14.5       | 14.7       | 15.0       | 15.5       | 13.7                  | 14.1       | 14.3       | 14.5       | 15.1       |
|                            | <b>8H</b>  | 14.5                    | 14.8       | 15.0       | 15.3       | 15.8       | 14.0                  | 14.3       | 14.6       | 14.8       | 15.4       |

Corrected UGR values based on total output lumens

SHR = 1.0