

## **Indoor Distribution Test Report**

# **Spectrum Lighting Inc.**

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## **Spectrum Lighting Photometric Lab**

### **Luminaire**

IF03RMx IC DWDD1007 DLWFGPMW

Nom 3" diam Infinium, dim to warm 7L emitter - Wide flood optic, No lens

### **Test Number**

SP-00947\_M-7L

### **Test Date**

5/1/2019

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

### Summary of Results

#### Power

|             |       |
|-------------|-------|
| Input Watts | 7.3 W |
|-------------|-------|

#### Lumen Output

|               |            |
|---------------|------------|
| Output Lumens | 451        |
| Efficacy      | 61.74 lm/W |

#### Luminous Dimensions

|                 |       |
|-----------------|-------|
| 0° - 180° Size  | -0.22 |
| 90° - 270° Size | -0.22 |
| Height          | 0     |

#### Spacing Criterion

|                           |      |
|---------------------------|------|
| Two luminaires, plane 0°  | 0.9  |
| Two luminaires, plane 90° | 0.9  |
| Four luminaires           | 0.83 |

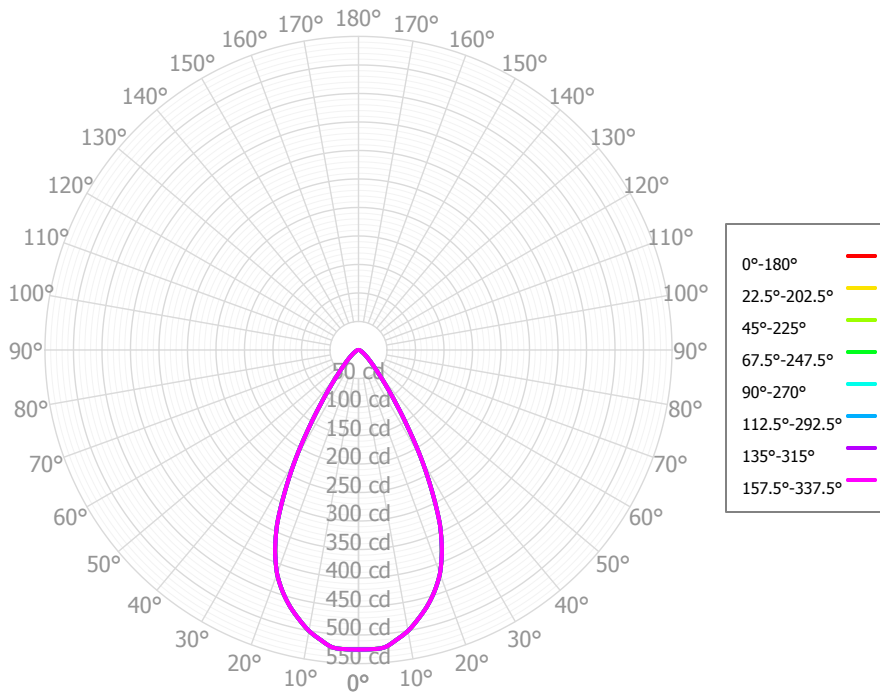
#### Full Beam Angle

|            |     |
|------------|-----|
| 0° - 180°  | 56° |
| 90° - 270° | 56° |

### IES File Header Contents

| Keyword   | Value  |
|-----------|--|
| TEST      | SP-00947_M-7L  |
| TESTLAB   | Spectrum Lighting Photometric Lab, VLS-245-981                           |
| MANUFAC   | Spectrum Lighting  |
| TESTDATE  | 5/1/2019   |
| ISSUEDATE | 11/15/2019   |
| LUMCAT    | IF03RMx IC DWDD1007 DLWFGPMW   |
| LUMINAIRE | Nom 3" diam Infinium, dim to warm 7L emitter - Wide flood optic, No lens |
| OTHER     | Beam Angle: 56.4 degrees   |
| OTHER     | Shallow IC   |
| LAMPCAT   | N/A  |
| LAMP      | N/A  |
| OTHER     | CCT Output Multipliers: N/A - dim to warm                                |
| OTHER     | Total luminaire wattage is approximate                                   |
| OTHER     | This report prepared by Spectrum Lighting                                |

### Candela Polar Plot



### Zonal Lumen Summary

| Zone            | Lumens | % Fixture | Zone              | Lumens | % Fixture |
|-----------------|--------|-----------|-------------------|--------|-----------|
| 0.00° - 10.00°  | 49.83  | 11.06%    | 90.00° - 100.00°  | 0.07   | 0.02%     |
| 10.00° - 20.00° | 129.77 | 28.79%    | 100.00° - 110.00° | 0.00   | 0.00%     |
| 20.00° - 30.00° | 149.27 | 33.12%    | 100.00° - 120.00° | 0.00   | 0.00%     |
| 30.00° - 40.00° | 75.61  | 16.78%    | 120.00° - 130.00° | 0.00   | 0.00%     |
| 40.00° - 50.00° | 26.34  | 5.84%     | 130.00° - 140.00° | 0.00   | 0.00%     |
| 50.00° - 60.00° | 11.49  | 2.55%     | 140.00° - 150.00° | 0.00   | 0.00%     |
| 60.00° - 70.00° | 5.27   | 1.17%     | 150.00° - 160.00° | 0.00   | 0.00%     |
| 70.00° - 80.00° | 2.34   | 0.52%     | 160.00° - 170.00° | 0.00   | 0.00%     |
| 80.00° - 90.00° | 0.69   | 0.15%     | 170.00° - 180.00° | 0.00   | 0.00%     |
| 0.00° - 90.00°  | 450.62 | 99.98%    | 0.00° - 180.00°   | 450.69 | 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°   | 525.44 | 525.44 | 525.44 | 525.44 | 525.44 | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  |
| 2.50°   | 525.44 | 525.44 | 525.44 | 525.44 | 525.44 | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  | 525.44  |
| 5.00°   | 523.63 | 523.63 | 523.63 | 523.63 | 523.63 | 523.63  | 523.63  | 523.63  | 523.63  | 523.63  | 523.63  | 523.63  | 523.63  | 523.63  | 523.63  | 523.63  | 523.63  |
| 7.50°   | 512.64 | 512.64 | 512.64 | 512.64 | 512.64 | 512.64  | 512.64  | 512.64  | 512.64  | 512.64  | 512.64  | 512.64  | 512.64  | 512.64  | 512.64  | 512.64  | 512.64  |
| 10.00°  | 500.37 | 500.37 | 500.37 | 500.37 | 500.37 | 500.37  | 500.37  | 500.37  | 500.37  | 500.37  | 500.37  | 500.37  | 500.37  | 500.37  | 500.37  | 500.37  | 500.37  |
| 12.50°  | 483.48 | 483.48 | 483.48 | 483.48 | 483.48 | 483.48  | 483.48  | 483.48  | 483.48  | 483.48  | 483.48  | 483.48  | 483.48  | 483.48  | 483.48  | 483.48  | 483.48  |
| 15.00°  | 465.34 | 465.34 | 465.34 | 465.34 | 465.34 | 465.34  | 465.34  | 465.34  | 465.34  | 465.34  | 465.34  | 465.34  | 465.34  | 465.34  | 465.34  | 465.34  | 465.34  |
| 17.50°  | 443.70 | 443.70 | 443.70 | 443.70 | 443.70 | 443.70  | 443.70  | 443.70  | 443.70  | 443.70  | 443.70  | 443.70  | 443.70  | 443.70  | 443.70  | 443.70  | 443.70  |
| 20.00°  | 417.67 | 417.67 | 417.67 | 417.67 | 417.67 | 417.67  | 417.67  | 417.67  | 417.67  | 417.67  | 417.67  | 417.67  | 417.67  | 417.67  | 417.67  | 417.67  | 417.67  |
| 22.50°  | 382.11 | 382.11 | 382.11 | 382.11 | 382.11 | 382.11  | 382.11  | 382.11  | 382.11  | 382.11  | 382.11  | 382.11  | 382.11  | 382.11  | 382.11  | 382.11  | 382.11  |
| 25.00°  | 338.08 | 338.08 | 338.08 | 338.08 | 338.08 | 338.08  | 338.08  | 338.08  | 338.08  | 338.08  | 338.08  | 338.08  | 338.08  | 338.08  | 338.08  | 338.08  | 338.08  |
| 27.50°  | 279.15 | 279.15 | 279.15 | 279.15 | 279.15 | 279.15  | 279.15  | 279.15  | 279.15  | 279.15  | 279.15  | 279.15  | 279.15  | 279.15  | 279.15  | 279.15  | 279.15  |
| 30.00°  | 220.36 | 220.36 | 220.36 | 220.36 | 220.36 | 220.36  | 220.36  | 220.36  | 220.36  | 220.36  | 220.36  | 220.36  | 220.36  | 220.36  | 220.36  | 220.36  | 220.36  |
| 32.50°  | 161.79 | 161.79 | 161.79 | 161.79 | 161.79 | 161.79  | 161.79  | 161.79  | 161.79  | 161.79  | 161.79  | 161.79  | 161.79  | 161.79  | 161.79  | 161.79  | 161.79  |
| 35.00°  | 114.81 | 114.81 | 114.81 | 114.81 | 114.81 | 114.81  | 114.81  | 114.81  | 114.81  | 114.81  | 114.81  | 114.81  | 114.81  | 114.81  | 114.81  | 114.81  | 114.81  |
| 37.50°  | 81.32  | 81.32  | 81.32  | 81.32  | 81.32  | 81.32   | 81.32   | 81.32   | 81.32   | 81.32   | 81.32   | 81.32   | 81.32   | 81.32   | 81.32   | 81.32   | 81.32   |
| 40.00°  | 57.43  | 57.43  | 57.43  | 57.43  | 57.43  | 57.43   | 57.43   | 57.43   | 57.43   | 57.43   | 57.43   | 57.43   | 57.43   | 57.43   | 57.43   | 57.43   | 57.43   |
| 42.50°  | 42.76  | 42.76  | 42.76  | 42.76  | 42.76  | 42.76   | 42.76   | 42.76   | 42.76   | 42.76   | 42.76   | 42.76   | 42.76   | 42.76   | 42.76   | 42.76   | 42.76   |
| 45.00°  | 32.25  | 32.25  | 32.25  | 32.25  | 32.25  | 32.25   | 32.25   | 32.25   | 32.25   | 32.25   | 32.25   | 32.25   | 32.25   | 32.25   | 32.25   | 32.25   | 32.25   |
| 47.50°  | 24.99  | 24.99  | 24.99  | 24.99  | 24.99  | 24.99   | 24.99   | 24.99   | 24.99   | 24.99   | 24.99   | 24.99   | 24.99   | 24.99   | 24.99   | 24.99   | 24.99   |
| 50.00°  | 19.63  | 19.63  | 19.63  | 19.63  | 19.63  | 19.63   | 19.63   | 19.63   | 19.63   | 19.63   | 19.63   | 19.63   | 19.63   | 19.63   | 19.63   | 19.63   | 19.63   |
| 52.50°  | 15.49  | 15.49  | 15.49  | 15.49  | 15.49  | 15.49   | 15.49   | 15.49   | 15.49   | 15.49   | 15.49   | 15.49   | 15.49   | 15.49   | 15.49   | 15.49   | 15.49   |
| 55.00°  | 12.45  | 12.45  | 12.45  | 12.45  | 12.45  | 12.45   | 12.45   | 12.45   | 12.45   | 12.45   | 12.45   | 12.45   | 12.45   | 12.45   | 12.45   | 12.45   | 12.45   |
| 57.50°  | 9.98   | 9.98   | 9.98   | 9.98   | 9.98   | 9.98    | 9.98    | 9.98    | 9.98    | 9.98    | 9.98    | 9.98    | 9.98    | 9.98    | 9.98    | 9.98    | 9.98    |
| 60.00°  | 8.02   | 8.02   | 8.02   | 8.02   | 8.02   | 8.02    | 8.02    | 8.02    | 8.02    | 8.02    | 8.02    | 8.02    | 8.02    | 8.02    | 8.02    | 8.02    | 8.02    |
| 62.50°  | 6.28   | 6.28   | 6.28   | 6.28   | 6.28   | 6.28    | 6.28    | 6.28    | 6.28    | 6.28    | 6.28    | 6.28    | 6.28    | 6.28    | 6.28    | 6.28    | 6.28    |
| 65.00°  | 5.15   | 5.15   | 5.15   | 5.15   | 5.15   | 5.15    | 5.15    | 5.15    | 5.15    | 5.15    | 5.15    | 5.15    | 5.15    | 5.15    | 5.15    | 5.15    | 5.15    |
| 67.50°  | 4.21   | 4.21   | 4.21   | 4.21   | 4.21   | 4.21    | 4.21    | 4.21    | 4.21    | 4.21    | 4.21    | 4.21    | 4.21    | 4.21    | 4.21    | 4.21    | 4.21    |
| 70.00°  | 3.47   | 3.47   | 3.47   | 3.47   | 3.47   | 3.47    | 3.47    | 3.47    | 3.47    | 3.47    | 3.47    | 3.47    | 3.47    | 3.47    | 3.47    | 3.47    | 3.47    |
| 72.50°  | 2.77   | 2.77   | 2.77   | 2.77   | 2.77   | 2.77    | 2.77    | 2.77    | 2.77    | 2.77    | 2.77    | 2.77    | 2.77    | 2.77    | 2.77    | 2.77    | 2.77    |
| 75.00°  | 2.18   | 2.18   | 2.18   | 2.18   | 2.18   | 2.18    | 2.18    | 2.18    | 2.18    | 2.18    | 2.18    | 2.18    | 2.18    | 2.18    | 2.18    | 2.18    | 2.18    |
| 77.50°  | 1.64   | 1.64   | 1.64   | 1.64   | 1.64   | 1.64    | 1.64    | 1.64    | 1.64    | 1.64    | 1.64    | 1.64    | 1.64    | 1.64    | 1.64    | 1.64    | 1.64    |
| 80.00°  | 1.11   | 1.11   | 1.11   | 1.11   | 1.11   | 1.11    | 1.11    | 1.11    | 1.11    | 1.11    | 1.11    | 1.11    | 1.11    | 1.11    | 1.11    | 1.11    | 1.11    |
| 82.50°  | 0.66   | 0.66   | 0.66   | 0.66   | 0.66   | 0.66    | 0.66    | 0.66    | 0.66    | 0.66    | 0.66    | 0.66    | 0.66    | 0.66    | 0.66    | 0.66    | 0.66    |
| 85.00°  | 0.57   | 0.57   | 0.57   | 0.57   | 0.57   | 0.57    | 0.57    | 0.57    | 0.57    | 0.57    | 0.57    | 0.57    | 0.57    | 0.57    | 0.57    | 0.57    | 0.57    |
| 87.50°  | 0.50   | 0.50   | 0.50   | 0.50   | 0.50   | 0.50    | 0.50    | 0.50    | 0.50    | 0.50    | 0.50    | 0.50    | 0.50    | 0.50    | 0.50    | 0.50    | 0.50    |
| 90.00°  | 0.51   | 0.51   | 0.51   | 0.51   | 0.51   | 0.51    | 0.51    | 0.51    | 0.51    | 0.51    | 0.51    | 0.51    | 0.51    | 0.51    | 0.51    | 0.51    | 0.51    |
| 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>   | 537 | 537 | 537 | 537 | 524 | 524 | 524 | 524 | 501 | 501 | 501 | 479 | 479 | 479 | 460 | 460 | 451 |
|            | <b>1</b>   | 511 | 498 | 486 | 476 | 500 | 488 | 478 | 468 | 470 | 462 | 454 | 453 | 447 | 440 | 438 | 432 | 428 |
|            | <b>2</b>   | 485 | 462 | 444 | 428 | 475 | 455 | 438 | 423 | 440 | 426 | 414 | 427 | 415 | 405 | 414 | 405 | 397 |
|            | <b>3</b>   | 460 | 431 | 408 | 390 | 451 | 424 | 403 | 387 | 413 | 395 | 380 | 402 | 387 | 374 | 391 | 379 | 372 |
|            | <b>4</b>   | 437 | 402 | 377 | 358 | 429 | 397 | 374 | 356 | 387 | 367 | 351 | 378 | 361 | 347 | 370 | 355 | 349 |
|            | <b>5</b>   | 415 | 377 | 350 | 331 | 407 | 373 | 348 | 329 | 364 | 343 | 326 | 357 | 338 | 323 | 350 | 334 | 328 |
|            | <b>6</b>   | 394 | 354 | 327 | 307 | 388 | 350 | 325 | 306 | 344 | 321 | 304 | 337 | 317 | 302 | 331 | 314 | 308 |
|            | <b>7</b>   | 375 | 333 | 306 | 287 | 369 | 330 | 304 | 286 | 324 | 301 | 285 | 319 | 298 | 283 | 314 | 296 | 291 |
|            | <b>8</b>   | 357 | 314 | 287 | 269 | 352 | 312 | 286 | 268 | 307 | 284 | 267 | 302 | 281 | 266 | 298 | 279 | 274 |
|            | <b>9</b>   | 341 | 297 | 271 | 253 | 336 | 295 | 270 | 252 | 291 | 268 | 251 | 287 | 266 | 250 | 283 | 264 | 260 |
|            | <b>10</b>  | 325 | 282 | 255 | 238 | 321 | 280 | 255 | 238 | 276 | 253 | 237 | 272 | 251 | 236 | 269 | 250 | 246 |

### Cone of Light

| Mtg Height | Light Level | Beam Diameter |
|------------|-------------|---------------|
| 5.5 ft     | 17.4 fc     | 5.9 ft        |
| 6.5 ft     | 12.4 fc     | 7.0 ft        |
| 7.5 ft     | 9.3 fc      | 8.0 ft        |
| 8.0 ft     | 8.2 fc      | 8.6 ft        |
| 10.0 ft    | 5.3 fc      | 10.7 ft       |
| 12.0 ft    | 3.6 fc      | 12.9 ft       |
| 14.0 ft    | 2.7 fc      | 15.0 ft       |
| 16.0 ft    | 2.1 fc      | 17.2 ft       |
| 20.0 ft    | 1.3 fc      | 21.4 ft       |
| 24.0 ft    | 0.9 fc      | 25.7 ft       |
| 28.0 ft    | 0.7 fc      | 30.0 ft       |

### Average Luminaire Luminance [cd/m²]

|               | 0.00°   | 45.00°  | 90.00°  |
|---------------|---------|---------|---------|
| <b>0.00°</b>  | 148,784 | 148,784 | 148,784 |
| <b>45.00°</b> | 12,913  | 12,913  | 12,913  |
| <b>55.00°</b> | 6,146   | 6,146   | 6,146   |
| <b>65.00°</b> | 3,451   | 3,451   | 3,451   |
| <b>75.00°</b> | 2,389   | 2,389   | 2,389   |
| <b>85.00°</b> | 1,842   | 1,842   | 1,842   |

### 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>  | 10.8                    | 11.9       | 11.2       | 12.2       | 12.5       | 10.8                  | 11.9       | 11.2       | 12.2       | 12.5       |
|                            | <b>3H</b>  | 11.6                    | 12.5       | 11.9       | 12.8       | 13.2       | 11.6                  | 12.5       | 11.9       | 12.8       | 13.2       |
|                            | <b>4H</b>  | 11.8                    | 12.6       | 12.2       | 13.0       | 13.4       | 11.8                  | 12.6       | 12.2       | 13.0       | 13.4       |
|                            | <b>6H</b>  | 11.9                    | 12.7       | 12.3       | 13.0       | 13.4       | 11.9                  | 12.7       | 12.3       | 13.0       | 13.4       |
|                            | <b>8H</b>  | 11.9                    | 12.6       | 12.3       | 13.0       | 13.4       | 11.9                  | 12.6       | 12.3       | 13.0       | 13.4       |
|                            | <b>12H</b> | 11.9                    | 12.6       | 12.3       | 13.0       | 13.4       | 11.9                  | 12.6       | 12.3       | 13.0       | 13.4       |
| <b>4H</b>                  | <b>2H</b>  | 11.0                    | 11.8       | 11.4       | 12.2       | 12.6       | 11.0                  | 11.8       | 11.4       | 12.2       | 12.6       |
|                            | <b>3H</b>  | 11.9                    | 12.6       | 12.3       | 13.0       | 13.4       | 11.9                  | 12.6       | 12.3       | 13.0       | 13.4       |
|                            | <b>4H</b>  | 12.2                    | 12.8       | 12.6       | 13.2       | 13.7       | 12.2                  | 12.8       | 12.6       | 13.2       | 13.7       |
|                            | <b>6H</b>  | 12.4                    | 12.9       | 12.9       | 13.4       | 13.8       | 12.4                  | 12.9       | 12.9       | 13.4       | 13.8       |
|                            | <b>8H</b>  | 12.4                    | 12.9       | 12.9       | 13.3       | 13.8       | 12.4                  | 12.9       | 12.9       | 13.3       | 13.8       |
|                            | <b>12H</b> | 12.4                    | 12.8       | 12.9       | 13.3       | 13.8       | 12.4                  | 12.8       | 12.9       | 13.3       | 13.8       |
| <b>8H</b>                  | <b>4H</b>  | 12.2                    | 12.7       | 12.7       | 13.2       | 13.6       | 12.2                  | 12.7       | 12.7       | 13.2       | 13.6       |
|                            | <b>6H</b>  | 12.5                    | 12.9       | 13.0       | 13.4       | 13.9       | 12.5                  | 12.9       | 13.0       | 13.4       | 13.9       |
|                            | <b>8H</b>  | 12.5                    | 12.9       | 13.1       | 13.4       | 13.9       | 12.5                  | 12.9       | 13.1       | 13.4       | 13.9       |
|                            | <b>12H</b> | 12.6                    | 12.9       | 13.1       | 13.4       | 14.0       | 12.6                  | 12.9       | 13.1       | 13.4       | 14.0       |
| <b>12H</b>                 | <b>4H</b>  | 12.2                    | 12.6       | 12.7       | 13.1       | 13.6       | 12.2                  | 12.6       | 12.7       | 13.1       | 13.6       |
|                            | <b>6H</b>  | 12.5                    | 12.8       | 13.0       | 13.3       | 13.8       | 12.5                  | 12.8       | 13.0       | 13.3       | 13.8       |
|                            | <b>8H</b>  | 12.5                    | 12.8       | 13.1       | 13.3       | 13.9       | 12.5                  | 12.8       | 13.1       | 13.3       | 13.9       |

Corrected UGR values based on total output lumens

SHR = 1.0