

## Indoor Distribution Test Report

### Spectrum Lighting Inc.

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### Spectrum Lighting Photometric Lab

#### Luminaire

STR2 835 07 xx xx RD2XS RB2BD xx xx

2" Adjustable Track Luminaire with extra narrow spot optic and snoot/deep cutoff bezel

#### Test Number

SP-01577

#### Test Date

2/19/2024

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

### Summary of Results

#### Power

|             |       |
|-------------|-------|
| Input Watts | 6.9 W |
|-------------|-------|

#### Lumen Output

|               |            |
|---------------|------------|
| Output Lumens | 603        |
| Efficacy      | 87.38 lm/W |

#### Luminous Dimensions

|                 |       |
|-----------------|-------|
| 0° - 180° Size  | -0.21 |
| 90° - 270° Size | -0.21 |
| Height          | 0     |

#### Spacing Criterion

|                           |      |
|---------------------------|------|
| Two luminaires, plane 0°  | 0.21 |
| Two luminaires, plane 90° | 0.21 |
| Four luminaires           | 0.22 |

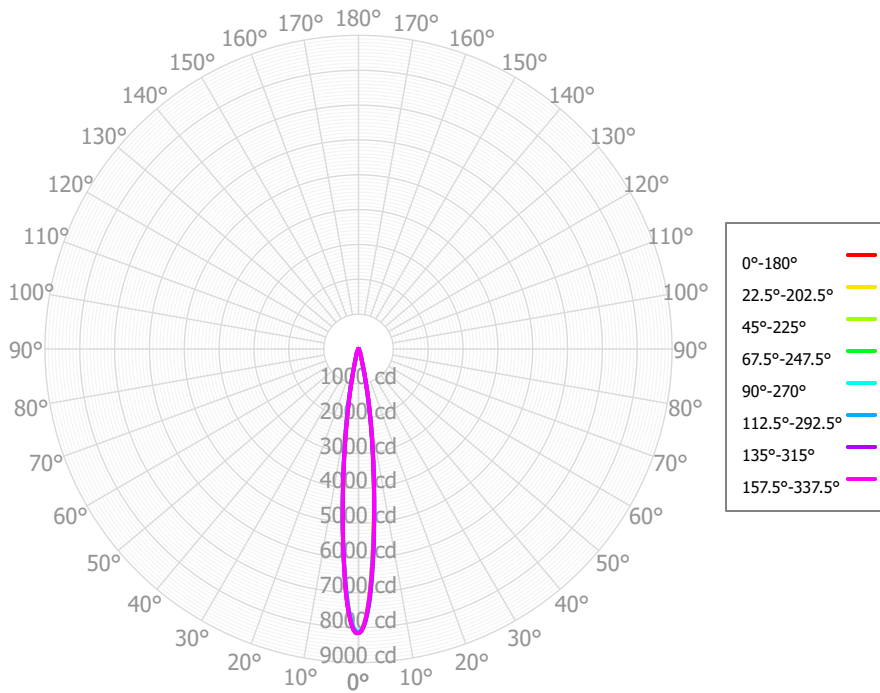
#### Full Beam Angle

|            |     |
|------------|-----|
| 0° - 180°  | 13° |
| 90° - 270° | 13° |

### IES File Header Contents

| Keyword   | Value  |
|-----------|--|
| TEST      | SP-01577   |
| TESTLAB   | Spectrum Lighting Photometric Lab, VLS-245-981   |
| MANUFAC   | Spectrum Lighting  |
| TESTDATE  | 2/19/2024  |
| ISSUEDATE | 2/19/2024  |
| LUMCAT    | STR2 835 07 xx xx RD2XS RB2BD xx xx  |
| LUMINAIRE | 2" Adjustable Track Luminaire with extra narrow spot optic and snoot/deep cutoff bezel |
| OTHER     | Beam Angle: 13 deg   |
| OTHER     | 80 CRI, 3500K tested   |
| OTHER     | CCT Output Multipliers: 822 x 0.75, 827 x 0.93, 830 x 1.0, 840 x 1.0                   |
| OTHER     | CCT Output Multipliers: 927 x 0.81, 930 x 0.81, 935 x 0.81, 940 x 0.87                 |
| OTHER     | Total luminaire wattages are approximate   |
| OTHER     | This report prepared by Spectrum Lighting  |

### Candela Polar Plot



### Zonal Lumen Summary

| Zone            | Lumens | % Fixture | Zone              | Lumens | % Fixture |
|-----------------|--------|-----------|-------------------|--------|-----------|
| 0.00° - 10.00°  | 377.27 | 62.57%    | 90.00° - 100.00°  | 0.92   | 0.15%     |
| 10.00° - 20.00° | 152.77 | 25.34%    | 100.00° - 110.00° | 0.90   | 0.15%     |
| 20.00° - 30.00° | 47.11  | 7.81%     | 100.00° - 120.00° | 1.76   | 0.29%     |
| 30.00° - 40.00° | 14.47  | 2.40%     | 120.00° - 130.00° | 0.82   | 0.14%     |
| 40.00° - 50.00° | 2.12   | 0.35%     | 130.00° - 140.00° | 0.69   | 0.11%     |
| 50.00° - 60.00° | 0.93   | 0.15%     | 140.00° - 150.00° | 0.58   | 0.10%     |
| 60.00° - 70.00° | 0.87   | 0.14%     | 150.00° - 160.00° | 0.45   | 0.07%     |
| 70.00° - 80.00° | 0.89   | 0.15%     | 160.00° - 170.00° | 0.27   | 0.04%     |
| 80.00° - 90.00° | 0.90   | 0.15%     | 170.00° - 180.00° | 0.08   | 0.01%     |
| 0.00° - 90.00°  | 597.33 | 99.08%    | 0.00° - 180.00°   | 602.91 | 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°  | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 | 8153.98 |
| 0.50°  | 8104.74 | 8089.98 | 8115.35 | 8113.49 | 8076.28 | 8112.93 | 8156.10 | 8145.04 | 8141.29 | 8131.29 | 8144.82 | 8133.77 | 8078.03 | 8077.22 | 8113.57 | 8101.78 | 8104.74 |
| 1.00°  | 7956.98 | 7933.93 | 7992.18 | 7978.96 | 7973.21 | 8038.93 | 8063.36 | 8051.31 | 8073.91 | 8053.39 | 8051.74 | 8031.21 | 7983.08 | 7983.69 | 7986.79 | 7966.50 | 7956.98 |
| 1.50°  | 7750.36 | 7738.53 | 7769.55 | 7791.63 | 7774.73 | 7815.59 | 7906.06 | 7870.61 | 7891.88 | 7877.77 | 7872.86 | 7843.21 | 7804.43 | 7820.96 | 7791.30 | 7755.76 | 7750.36 |
| 2.00°  | 7459.05 | 7468.71 | 7478.86 | 7495.85 | 7509.41 | 7577.51 | 7648.03 | 7631.02 | 7639.47 | 7616.23 | 7613.69 | 7593.03 | 7574.10 | 7563.14 | 7518.61 | 7481.54 | 7459.05 |
| 2.50°  | 7116.79 | 7115.05 | 7131.96 | 7161.71 | 7174.00 | 7238.53 | 7333.11 | 7328.37 | 7343.69 | 7302.45 | 7285.83 | 7285.47 | 7251.28 | 7277.59 | 7206.55 | 7151.77 | 7116.79 |
| 3.00°  | 6716.27 | 6734.28 | 6742.55 | 6765.19 | 6781.89 | 6852.51 | 6952.97 | 6951.57 | 6958.80 | 6912.28 | 6910.00 | 6908.01 | 6884.82 | 6901.40 | 6834.46 | 6768.91 | 6716.27 |
| 3.50°  | 6294.69 | 6329.33 | 6319.35 | 6319.96 | 6344.81 | 6430.06 | 6511.14 | 6524.11 | 6520.97 | 6486.86 | 6499.66 | 6510.96 | 6502.06 | 6483.99 | 6426.05 | 6364.97 | 6294.69 |
| 4.00°  | 5873.57 | 5901.72 | 5911.69 | 5900.18 | 5937.67 | 6003.44 | 6060.84 | 6066.24 | 6061.15 | 6023.19 | 6049.32 | 6079.66 | 6068.90 | 6048.14 | 6010.06 | 5959.44 | 5873.57 |
| 4.50°  | 5452.86 | 5462.28 | 5465.00 | 5477.02 | 5515.97 | 5570.52 | 5619.33 | 5624.84 | 5617.32 | 5567.92 | 5612.55 | 5630.55 | 5594.39 | 5611.73 | 5559.54 | 5523.09 | 5452.86 |
| 5.00°  | 5059.21 | 5042.07 | 5041.90 | 5069.48 | 5111.84 | 5144.22 | 5175.03 | 5177.42 | 5151.21 | 5125.48 | 5158.16 | 5188.61 | 5170.90 | 5172.40 | 5118.99 | 5095.33 | 5059.21 |
| 5.50°  | 4664.93 | 4641.27 | 4631.79 | 4653.09 | 4706.08 | 4732.45 | 4723.80 | 4733.85 | 4722.95 | 4673.18 | 4687.29 | 4736.27 | 4746.34 | 4723.80 | 4689.61 | 4680.33 | 4664.93 |
| 6.00°  | 4290.55 | 4247.12 | 4227.82 | 4259.60 | 4318.04 | 4328.64 | 4286.74 | 4307.20 | 4297.25 | 4257.14 | 4245.58 | 4280.90 | 4338.82 | 4324.85 | 4279.98 | 4288.05 | 4290.55 |
| 6.50°  | 3937.49 | 3889.29 | 3855.97 | 3887.96 | 3957.67 | 3937.94 | 3877.26 | 3900.49 | 3921.38 | 3868.92 | 3834.81 | 3879.25 | 3955.09 | 3937.41 | 3891.76 | 3912.88 | 3937.49 |
| 7.00°  | 3607.90 | 3548.32 | 3488.71 | 3537.31 | 3593.66 | 3563.25 | 3495.90 | 3525.27 | 3554.21 | 3503.06 | 3452.28 | 3507.16 | 3590.00 | 3574.35 | 3528.64 | 3579.42 | 3607.90 |
| 7.50°  | 3285.36 | 3217.38 | 3143.75 | 3195.13 | 3252.96 | 3206.63 | 3121.62 | 3177.05 | 3202.56 | 3148.79 | 3093.31 | 3164.87 | 3245.17 | 3242.19 | 3192.60 | 3253.75 | 3285.36 |
| 8.00°  | 2985.11 | 2912.54 | 2832.34 | 2890.04 | 2926.70 | 2871.46 | 2785.59 | 2846.44 | 2868.18 | 2805.09 | 2764.82 | 2851.71 | 2924.97 | 2935.29 | 2877.79 | 2942.68 | 2985.11 |
| 8.50°  | 2700.80 | 2624.61 | 2544.75 | 2592.48 | 2622.39 | 2562.21 | 2476.62 | 2537.30 | 2548.04 | 2494.83 | 2461.40 | 2558.44 | 2630.61 | 2643.73 | 2589.99 | 2657.70 | 2700.80 |
| 9.00°  | 2427.10 | 2359.67 | 2266.78 | 2335.84 | 2345.57 | 2275.02 | 2182.87 | 2249.01 | 2259.85 | 2209.57 | 2184.49 | 2283.77 | 2358.16 | 2376.64 | 2323.32 | 2393.13 | 2427.10 |
| 9.50°  | 2174.31 | 2114.21 | 2021.70 | 2083.78 | 2088.06 | 2012.43 | 1938.26 | 1978.95 | 1997.13 | 1958.28 | 1929.22 | 2022.82 | 2105.25 | 2135.50 | 2069.50 | 2145.08 | 2174.31 |
| 10.00° | 1941.19 | 1877.76 | 1793.00 | 1842.36 | 1844.13 | 1771.70 | 1702.58 | 1734.33 | 1748.22 | 1724.46 | 1694.82 | 1783.38 | 1865.23 | 1903.09 | 1836.00 | 1909.32 | 1941.19 |
| 10.50° | 1716.99 | 1660.95 | 1575.71 | 1621.21 | 1621.09 | 1553.53 | 1485.73 | 1515.26 | 1521.44 | 1500.30 | 1479.30 | 1566.07 | 1640.27 | 1675.49 | 1622.14 | 1683.09 | 1716.99 |
| 11.00° | 1506.24 | 1462.88 | 1387.04 | 1425.41 | 1412.07 | 1351.31 | 1293.09 | 1316.99 | 1313.43 | 1301.53 | 1283.50 | 1367.09 | 1437.65 | 1476.18 | 1424.33 | 1481.63 | 1506.24 |
| 11.50° | 1315.50 | 1275.26 | 1210.77 | 1239.57 | 1225.38 | 1172.13 | 1123.80 | 1136.58 | 1130.52 | 1124.90 | 1111.52 | 1184.27 | 1246.80 | 1284.71 | 1240.49 | 1292.44 | 1315.50 |
| 12.00° | 1144.41 | 1106.40 | 1050.12 | 1073.90 | 1056.62 | 1013.88 | 966.60  | 974.26  | 970.04  | 969.12  | 958.73  | 1020.67 | 1070.72 | 1111.12 | 1071.75 | 1121.93 | 1144.41 |
| 12.50° | 986.65  | 955.98  | 904.36  | 921.31  | 906.91  | 865.83  | 832.08  | 832.79  | 828.85  | 823.10  | 821.65  | 875.15  | 918.76  | 954.28  | 924.74  | 965.17  | 986.65  |
| 13.00° | 843.21  | 820.99  | 781.44  | 791.95  | 775.06  | 738.53  | 714.29  | 712.44  | 706.52  | 698.82  | 702.39  | 744.69  | 787.27  | 815.18  | 795.27  | 827.60  | 843.21  |
| 13.50° | 721.59  | 703.05  | 672.04  | 672.00  | 661.14  | 632.79  | 612.97  | 606.83  | 605.36  | 599.45  | 602.42  | 638.04  | 672.40  | 694.08  | 679.61  | 707.25  | 721.59  |
| 14.00° | 618.63  | 602.56  | 574.37  | 571.93  | 565.37  | 546.76  | 530.45  | 523.99  | 520.29  | 517.01  | 516.00  | 547.06  | 574.05  | 593.09  | 585.54  | 605.35  | 618.63  |
| 14.50° | 528.92  | 518.03  | 496.72  | 494.18  | 488.08  | 471.95  | 462.63  | 454.58  | 449.86  | 446.90  | 448.63  | 472.12  | 494.13  | 511.22  | 506.16  | 518.64  | 528.92  |
| 15.00° | 458.28  | 450.64  | 434.75  | 432.28  | 426.20  | 413.02  | 403.30  | 400.46  | 392.75  | 390.76  | 392.22  | 410.91  | 431.47  | 443.47  | 437.94  | 448.39  | 458.28  |
| 15.50° | 401.70  | 394.86  | 382.00  | 377.69  | 373.99  | 366.48  | 357.74  | 354.70  | 348.79  | 345.48  | 348.25  | 363.36  | 380.94  | 388.24  | 385.79  | 393.10  | 401.70  |
| 16.00° | 353.96  | 349.17  | 341.32  | 334.53  | 331.34  | 324.04  | 321.66  | 318.73  | 313.71  | 310.85  | 315.34  | 326.05  | 340.76  | 345.15  | 343.19  | 348.71  | 353.96  |
| 16.50° | 317.08  | 312.41  | 305.46  | 300.90  | 297.88  | 292.39  | 289.75  | 287.53  | 282.87  | 283.10  | 286.10  | 294.89  | 308.85  | 310.28  | 306.79  | 315.21  | 317.08  |
| 17.00° | 287.00  | 283.32  | 278.95  | 274.49  | 269.90  | 266.72  | 264.85  | 261.50  | 256.22  | 257.04  | 259.15  | 268.95  | 281.18  | 283.00  | 278.79  | 283.00  | 287.00  |
| 17.50° | 260.96  | 259.20  | 251.82  | 250.44  | 247.95  | 245.58  | 243.15  | 238.74  | 237.65  | 236.85  | 237.46  | 248.34  | 258.22  | 257.08  | 255.79  | 259.39  | 260.96  |
| 18.00° | 240.26  | 238.53  | 233.70  | 232.29  | 229.78  | 228.75  | 226.59  | 223.46  | 220.14  | 220.88  | 223.27  | 229.67  | 239.61  | 238.78  | 235.55  | 238.39  | 240.26  |
| 18.50° | 222.01  | 222.62  | 220.81  | 215.65  | 214.56  | 213.41  | 212.08  | 210.60  | 205.96  | 206.64  | 207.16  | 211.94  | 222.92  | 219.51  | 216.49  | 218.73  | 222.01  |
| 19.00° | 206.38  | 206.96  | 205.69  | 201.64  | 203.03  | 201.73  | 199.53  | 200.12  | 194.61  | 194.35  | 193.95  | 201.48  | 208.68  | 203.70  | 201.86  | 207.05  | 206.38  |
| 19.50° | 195.10  | 194.76  | 194.75  | 189.79  | 190.78  | 191.57  | 190.65  | 188.73  | 184.20  | 183.09  | 183.03  | 191.29  | 195.77  | 192.08  | 190.25  | 195.36  | 195.10  |
| 20.00° | 184.65  | 185.45  | 182.33  | 179.51  | 181.05  | 181.49  | 181.62  | 178.45  | 176.64  | 174.45  | 171.15  | 179.20  | 185.35  | 183.36  | 180.54  | 184.56  | 184.65  |
| 20.50° | 173.56  | 173.81  | 170.95  | 170.45  | 170.77  | 168.85  | 169.01  | 169.55  | 166.69  | 164.67  | 163.93  | 168.52  | 174.44  | 174.19  | 170.16  | 171.70  | 173.56  |
| 21.00° | 165.82  | 162.74  | 163.61  | 160.41  | 160.30  | 158.90  | 158.51  | 160.05  | 157.65  | 154.96  | 156.75  | 159.41  | 164.73  | 161.68  | 161.49  | 165.00  | 165.82  |

### Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

|            |            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>RCR</b> | <b>ptc</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>   | 716 | 716 | 716 | 716 | 699 | 699 | 699 | 699 | 667 | 667 | 667 | 637 | 637 | 637 | 610 | 610 | 597 |
|            | <b>1</b>   | 696 | 684 | 674 | 665 | 681 | 671 | 662 | 654 | 646 | 639 | 633 | 623 | 618 | 613 | 602 | 599 | 586 |
|            | <b>2</b>   | 677 | 658 | 643 | 630 | 665 | 648 | 634 | 622 | 629 | 618 | 608 | 611 | 602 | 595 | 594 | 588 | 576 |
|            | <b>3</b>   | 661 | 637 | 618 | 604 | 650 | 629 | 612 | 599 | 613 | 600 | 589 | 599 | 588 | 579 | 586 | 578 | 567 |
|            | <b>4</b>   | 646 | 618 | 599 | 584 | 636 | 612 | 594 | 580 | 600 | 585 | 573 | 589 | 576 | 566 | 578 | 568 | 558 |
|            | <b>5</b>   | 632 | 603 | 582 | 567 | 624 | 597 | 579 | 565 | 588 | 572 | 560 | 579 | 565 | 555 | 570 | 559 | 549 |
|            | <b>6</b>   | 619 | 589 | 568 | 554 | 612 | 585 | 566 | 552 | 577 | 560 | 548 | 569 | 555 | 544 | 562 | 550 | 541 |
|            | <b>7</b>   | 608 | 577 | 556 | 542 | 602 | 573 | 554 | 541 | 566 | 550 | 538 | 560 | 546 | 535 | 554 | 542 | 532 |
|            | <b>8</b>   | 597 | 565 | 546 | 532 | 592 | 563 | 544 | 531 | 557 | 541 | 529 | 552 | 537 | 527 | 547 | 534 | 525 |
|            | <b>9</b>   | 587 | 555 | 536 | 523 | 582 | 553 | 535 | 522 | 548 | 532 | 521 | 544 | 529 | 519 | 540 | 527 | 517 |
|            | <b>10</b>  | 578 | 546 | 528 | 515 | 573 | 544 | 526 | 514 | 540 | 524 | 513 | 537 | 522 | 512 | 533 | 520 | 511 |

### Cone of Light

| Mtg Height | Light Level | Beam Diameter |
|------------|-------------|---------------|
| 5.5 ft     | 269.6 fc    | 1.2 ft        |
| 6.5 ft     | 193.0 fc    | 1.4 ft        |
| 7.5 ft     | 145.0 fc    | 1.7 ft        |
| 8.0 ft     | 127.4 fc    | 1.8 ft        |
| 10.0 ft    | 81.5 fc     | 2.2 ft        |
| 12.0 ft    | 56.6 fc     | 2.6 ft        |
| 14.0 ft    | 41.6 fc     | 3.1 ft        |
| 16.0 ft    | 31.9 fc     | 3.5 ft        |
| 20.0 ft    | 20.4 fc     | 4.4 ft        |
| 24.0 ft    | 14.2 fc     | 5.3 ft        |
| 28.0 ft    | 10.4 fc     | 6.2 ft        |

### Average Luminaire Luminance [cd/m²]

|               | 0.00°   | 45.00°  | 90.00°  |
|---------------|---------|---------|---------|
| <b>0.00°</b>  | 2534028 | 2534028 | 2534028 |
| <b>45.00°</b> | 795     | 1176    | 992     |
| <b>55.00°</b> | 645     | 528     | 530     |
| <b>65.00°</b> | 657     | 612     | 743     |
| <b>75.00°</b> | 941     | 1608    | 1094    |
| <b>85.00°</b> | 2937    | 3481    | 3144    |

### UGR CIE 190:2010

|                     |     |                  |      |      |      |      |                |      |      |      |      |
|---------------------|-----|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling reflectance |     | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall reflectance    |     | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Plane reflectance   |     | 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 |      |      |      |      |
| 2H                  | 2H  | -7.2             | -6.3 | -6.8 | -6.0 | -5.6 | -7.0           | -6.1 | -6.6 | -5.7 | -5.4 |
|                     | 3H  | -3.0             | -2.2 | -2.6 | -1.9 | -1.5 | -3.2           | -2.4 | -2.8 | -2.0 | -1.6 |
|                     | 4H  | -1.1             | -0.4 | -0.7 | 0.0  | 0.4  | -1.6           | -0.8 | -1.1 | -0.5 | 0.0  |
|                     | 6H  | 0.9              | 1.5  | 1.3  | 1.9  | 2.3  | 0.4            | 1.0  | 0.8  | 1.4  | 1.8  |
|                     | 8H  | 2.0              | 2.7  | 2.5  | 3.1  | 3.5  | 1.5            | 2.1  | 2.0  | 2.5  | 3.0  |
|                     | 12H | 3.3              | 3.9  | 3.8  | 4.3  | 4.7  | 2.9            | 3.5  | 3.3  | 3.9  | 4.3  |
| 4H                  | 2H  | -6.3             | -5.6 | -5.8 | -5.2 | -4.8 | -5.9           | -5.2 | -5.5 | -4.8 | -4.4 |
|                     | 3H  | -1.2             | -0.6 | -0.7 | -0.1 | 0.3  | -2.2           | -1.6 | -1.8 | -1.2 | -0.8 |
|                     | 4H  | 0.8              | 1.3  | 1.2  | 1.7  | 2.2  | -0.4           | 0.2  | 0.1  | 0.6  | 1.1  |
|                     | 6H  | 2.8              | 3.2  | 3.2  | 3.7  | 4.2  | 1.7            | 2.1  | 2.2  | 2.6  | 3.1  |
|                     | 8H  | 3.9              | 4.4  | 4.4  | 4.8  | 5.3  | 2.9            | 3.3  | 3.4  | 3.8  | 4.3  |
|                     | 12H | 5.2              | 5.6  | 5.7  | 6.1  | 6.6  | 4.3            | 4.7  | 4.9  | 5.2  | 5.7  |
| 8H                  | 4H  | 1.6              | 2.0  | 2.0  | 2.4  | 2.9  | 0.4            | 0.8  | 0.9  | 1.3  | 1.8  |
|                     | 6H  | 3.8              | 4.2  | 4.4  | 4.7  | 5.2  | 2.6            | 2.9  | 3.1  | 3.5  | 4.0  |
|                     | 8H  | 5.2              | 5.5  | 5.8  | 6.1  | 6.6  | 3.9            | 4.2  | 4.5  | 4.7  | 5.3  |
|                     | 12H | 6.8              | 7.0  | 7.3  | 7.5  | 8.1  | 5.5            | 5.7  | 6.0  | 6.3  | 6.9  |
| 12H                 | 4H  | 1.7              | 2.1  | 2.3  | 2.6  | 3.1  | 0.6            | 1.0  | 1.1  | 1.5  | 2.0  |
|                     | 6H  | 4.2              | 4.5  | 4.7  | 5.0  | 5.5  | 3.0            | 3.2  | 3.5  | 3.7  | 4.3  |
|                     | 8H  | 5.7              | 6.0  | 6.3  | 6.5  | 7.1  | 4.4            | 4.6  | 4.9  | 5.1  | 5.7  |

Corrected UGR values based on total output energy  
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0