

## Indoor Distribution Test Report

### Spectrum Lighting Inc.

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### Spectrum Lighting Photometric Lab

#### Luminaire

LT03IND24 20L 35K DW xx xx MW

Specline Linear, 1.8" aperture x 2' Long, Matte White Refl

#### Test Number

SP-01546\_2

#### Test Date

6/3/2022

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

### Summary of Results

#### Power

|             |      |
|-------------|------|
| Input Watts | 32 W |
|-------------|------|

#### Lumen Output

|               |            |
|---------------|------------|
| Output Lumens | 2407       |
| Efficacy      | 75.23 lm/W |

#### Luminous Dimensions

|                 |      |
|-----------------|------|
| 0° - 180° Size  | 0.15 |
| 90° - 270° Size | 2    |
| Height          | 0    |

#### Spacing Criterion

|                           |      |
|---------------------------|------|
| Two luminaires, plane 0°  | 1.25 |
| Two luminaires, plane 90° | 1.25 |
| Four luminaires           | 1.37 |

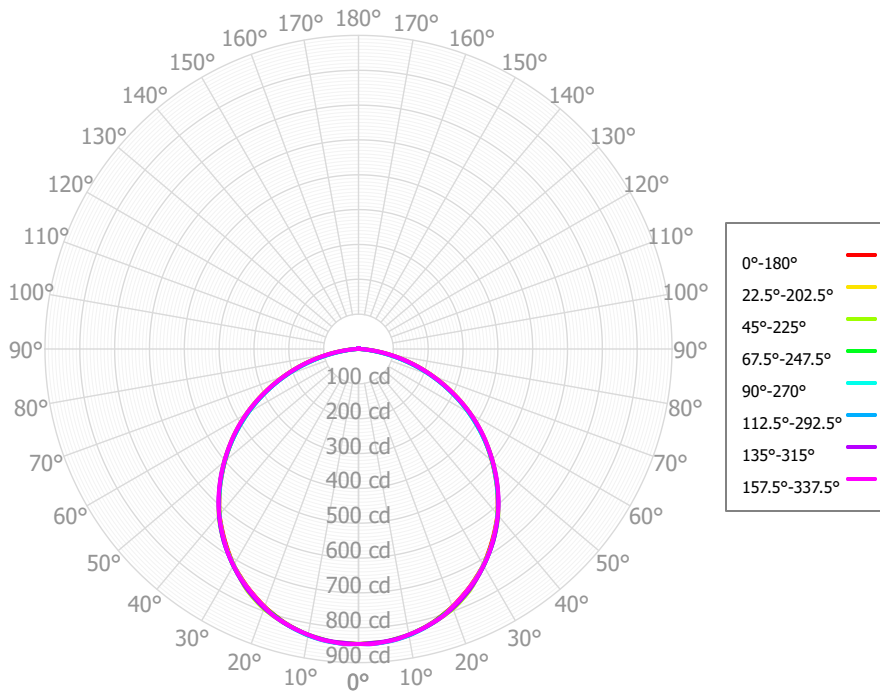
#### Full Beam Angle

|            |      |
|------------|------|
| 0° - 180°  | 112° |
| 90° - 270° | 111° |

### IES File Header Contents

| Keyword   | Value                                                                    |
|-----------|--------------------------------------------------------------------------|
| TEST      | SP-01546_2                                                               |
| TESTLAB   | Spectrum Lighting Photometric Lab, VLS-245-981                           |
| MANUFAC   | Spectrum Lighting                                                        |
| TESTDATE  | 6/3/2022                                                                 |
| ISSUEDATE | 3/23/2023                                                                |
| LUMCAT    | LT03IND24 20L 35K DW xx xx MW                                            |
| LUMINAIRE | Specline Linear, 1.8" aperture x 2' Long, Matte White Refl               |
| OTHER     | Diffuse White Extruded Acrylic Lens, Symmetric Distribution              |
| OTHER     | Data for 2' IND fixture, Ceiling mount                                   |
| OTHER     | 111 Degree Beam Angle                                                    |
| LAMP      | N/A, Min. 80 CRI                                                         |
| LAMPCAT   | N/A                                                                      |
| OTHER     | Reference project SL473                                                  |
| OTHER     | 20L designation for Spectrum linear product indicates 1204 Source Lm/Ft. |
| OTHER     | CCT Output Multipliers: 40K x 1.02, 30K x 0.97                           |
| OTHER     | Total Luminaire Watts 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°  | 81.44   | 3.38%     | 90.00° - 100.00°  | 2.19    | 0.09%     |
| 10.00° - 20.00° | 229.87  | 9.55%     | 100.00° - 110.00° | 1.86    | 0.08%     |
| 20.00° - 30.00° | 348.42  | 14.47%    | 100.00° - 120.00° | 3.72    | 0.15%     |
| 30.00° - 40.00° | 420.32  | 17.46%    | 120.00° - 130.00° | 1.74    | 0.07%     |
| 40.00° - 50.00° | 434.46  | 18.05%    | 130.00° - 140.00° | 1.46    | 0.06%     |
| 50.00° - 60.00° | 390.04  | 16.20%    | 140.00° - 150.00° | 1.22    | 0.05%     |
| 60.00° - 70.00° | 293.50  | 12.19%    | 150.00° - 160.00° | 0.90    | 0.04%     |
| 70.00° - 80.00° | 161.00  | 6.69%     | 160.00° - 170.00° | 0.56    | 0.02%     |
| 80.00° - 90.00° | 36.19   | 1.50%     | 170.00° - 180.00° | 0.19    | 0.01%     |
| 0.00° - 90.00°  | 2395.25 | 99.50%    | 0.00° - 180.00°   | 2407.23 | 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°   | 846.88 | 846.88 | 846.88 | 846.88 | 846.88 | 846.88  | 846.88  | 846.88  | 846.88  | 846.88  | 846.88  | 846.88  | 846.88  | 846.88  | 846.88  | 846.88  | 846.88  |
| 2.50°   | 845.16 | 845.85 | 844.69 | 846.14 | 847.96 | 847.49  | 844.82  | 848.08  | 845.16  | 845.85  | 844.69  | 846.14  | 847.96  | 847.49  | 844.82  | 848.08  | 845.16  |
| 5.00°   | 844.39 | 843.95 | 844.11 | 844.38 | 844.84 | 845.42  | 842.98  | 844.43  | 844.39  | 843.95  | 844.11  | 844.38  | 844.84  | 845.42  | 842.98  | 844.43  | 844.39  |
| 7.50°   | 839.50 | 839.29 | 838.47 | 839.59 | 840.63 | 841.46  | 838.86  | 840.63  | 839.50  | 839.29  | 838.47  | 839.59  | 840.63  | 841.46  | 838.86  | 840.63  | 839.50  |
| 10.00°  | 833.45 | 832.95 | 832.50 | 834.69 | 833.28 | 834.92  | 832.51  | 832.87  | 833.45  | 832.95  | 832.50  | 834.69  | 833.28  | 834.92  | 832.51  | 832.87  | 833.45  |
| 12.50°  | 824.07 | 824.63 | 824.48 | 824.99 | 825.21 | 826.34  | 824.75  | 825.01  | 824.07  | 824.63  | 824.48  | 824.99  | 825.21  | 826.34  | 824.75  | 825.01  | 824.07  |
| 15.00°  | 813.90 | 815.26 | 816.02 | 815.14 | 815.41 | 815.70  | 815.78  | 814.91  | 813.90  | 815.26  | 816.02  | 815.14  | 815.41  | 815.70  | 815.78  | 814.91  | 813.90  |
| 17.50°  | 800.75 | 802.30 | 805.41 | 802.07 | 804.21 | 803.64  | 804.47  | 804.35  | 800.75  | 802.30  | 805.41  | 802.07  | 804.21  | 803.64  | 804.47  | 804.35  | 800.75  |
| 20.00°  | 787.07 | 787.77 | 793.77 | 788.79 | 790.09 | 789.53  | 791.47  | 788.09  | 787.07  | 787.77  | 793.77  | 788.79  | 790.09  | 789.53  | 791.47  | 788.09  | 787.07  |
| 22.50°  | 770.69 | 771.61 | 778.35 | 773.17 | 774.56 | 774.22  | 776.03  | 771.75  | 770.69  | 771.61  | 778.35  | 773.17  | 774.56  | 774.22  | 776.03  | 771.75  | 770.69  |
| 25.00°  | 753.96 | 754.85 | 761.21 | 757.19 | 756.56 | 756.68  | 759.07  | 754.83  | 753.96  | 754.85  | 761.21  | 757.19  | 756.56  | 756.68  | 759.07  | 754.83  | 753.96  |
| 27.50°  | 735.20 | 736.19 | 738.91 | 738.34 | 737.67 | 738.03  | 739.50  | 737.45  | 735.20  | 736.19  | 738.91  | 738.34  | 737.67  | 738.03  | 739.50  | 737.45  | 735.20  |
| 30.00°  | 716.26 | 716.96 | 716.95 | 718.91 | 717.47 | 717.74  | 718.52  | 717.49  | 716.26  | 716.96  | 716.95  | 718.91  | 717.47  | 717.74  | 718.52  | 717.49  | 716.26  |
| 32.50°  | 692.98 | 694.78 | 695.83 | 696.27 | 696.20 | 696.77  | 696.69  | 696.66  | 692.98  | 694.78  | 695.83  | 696.27  | 696.20  | 696.77  | 696.69  | 696.66  | 692.98  |
| 35.00°  | 669.52 | 671.87 | 673.89 | 673.06 | 673.56 | 673.20  | 674.46  | 671.96  | 669.52  | 671.87  | 673.89  | 673.06  | 673.56  | 673.20  | 674.46  | 671.96  | 669.52  |
| 37.50°  | 645.07 | 646.37 | 650.18 | 647.38 | 648.69 | 648.70  | 649.30  | 647.10  | 645.07  | 646.37  | 650.18  | 647.38  | 648.69  | 648.70  | 649.30  | 647.10  | 645.07  |
| 40.00°  | 620.48 | 620.38 | 624.05 | 621.10 | 621.35 | 621.69  | 623.04  | 621.69  | 620.48  | 620.38  | 624.05  | 621.10  | 621.35  | 621.69  | 623.04  | 621.69  | 620.48  |
| 42.50°  | 591.34 | 592.64 | 593.61 | 592.67 | 592.54 | 593.96  | 594.08  | 595.21  | 591.34  | 592.64  | 593.61  | 592.67  | 592.54  | 593.96  | 594.08  | 595.21  | 591.34  |
| 45.00°  | 562.06 | 564.66 | 563.47 | 563.61 | 562.33 | 564.40  | 564.26  | 565.66  | 562.06  | 564.66  | 563.47  | 563.61  | 562.33  | 564.40  | 564.26  | 565.66  | 562.06  |
| 47.50°  | 530.91 | 534.32 | 533.78 | 532.77 | 531.85 | 534.43  | 533.51  | 535.39  | 530.91  | 534.32  | 533.78  | 532.77  | 531.85  | 534.43  | 533.51  | 535.39  | 530.91  |
| 50.00°  | 499.75 | 503.74 | 502.83 | 501.35 | 501.15 | 502.54  | 502.53  | 503.35  | 499.75  | 503.74  | 502.83  | 501.35  | 501.15  | 502.54  | 502.53  | 503.35  | 499.75  |
| 52.50°  | 468.43 | 471.70 | 470.21 | 468.57 | 468.39 | 470.31  | 470.27  | 471.36  | 468.43  | 471.70  | 470.21  | 468.57  | 468.39  | 470.31  | 470.27  | 471.36  | 468.43  |
| 55.00°  | 436.80 | 439.58 | 437.32 | 435.13 | 434.17 | 436.10  | 437.75  | 439.45  | 436.80  | 439.58  | 437.32  | 435.13  | 434.17  | 436.10  | 437.75  | 439.45  | 436.80  |
| 57.50°  | 403.29 | 405.73 | 404.10 | 400.37 | 399.85 | 401.64  | 404.00  | 406.33  | 403.29  | 405.73  | 404.10  | 400.37  | 399.85  | 401.64  | 404.00  | 406.33  | 403.29  |
| 60.00°  | 369.34 | 371.83 | 369.60 | 365.55 | 365.46 | 366.48  | 370.06  | 371.16  | 369.34  | 371.83  | 369.60  | 365.55  | 365.46  | 366.48  | 370.06  | 371.16  | 369.34  |
| 62.50°  | 333.34 | 336.54 | 333.81 | 330.65 | 329.75 | 331.26  | 333.37  | 335.58  | 333.34  | 336.54  | 333.81  | 330.65  | 329.75  | 331.26  | 333.37  | 335.58  | 333.34  |
| 65.00°  | 297.40 | 301.20 | 297.87 | 295.28 | 293.34 | 294.77  | 296.38  | 299.41  | 297.40  | 301.20  | 297.87  | 295.28  | 293.34  | 294.77  | 296.38  | 299.41  | 297.40  |
| 67.50°  | 261.66 | 264.98 | 261.80 | 259.24 | 256.97 | 258.21  | 260.32  | 263.26  | 261.66  | 264.98  | 261.80  | 259.24  | 256.97  | 258.21  | 260.32  | 263.26  | 261.66  |
| 70.00°  | 226.12 | 228.76 | 225.43 | 222.48 | 220.62 | 221.43  | 224.32  | 227.13  | 226.12  | 228.76  | 225.43  | 222.48  | 220.62  | 221.43  | 224.32  | 227.13  | 226.12  |
| 72.50°  | 191.13 | 192.64 | 188.83 | 184.84 | 183.52 | 184.66  | 188.92  | 191.22  | 191.13  | 192.64  | 188.83  | 184.84  | 183.52  | 184.66  | 188.92  | 191.22  | 191.13  |
| 75.00°  | 156.33 | 156.76 | 152.89 | 148.14 | 146.13 | 148.40  | 153.53  | 155.55  | 156.33  | 156.76  | 152.89  | 148.14  | 146.13  | 148.40  | 153.53  | 155.55  | 156.33  |
| 77.50°  | 122.02 | 122.51 | 117.36 | 112.47 | 109.94 | 112.28  | 118.83  | 121.41  | 122.02  | 122.51  | 117.36  | 112.47  | 109.94  | 112.28  | 118.83  | 121.41  | 122.02  |
| 80.00°  | 89.07  | 88.90  | 83.59  | 78.00  | 74.12  | 78.38   | 84.37   | 88.71   | 89.07   | 88.90   | 83.59   | 78.00   | 74.12   | 78.38   | 84.37   | 88.71   | 89.07   |
| 82.50°  | 59.00  | 58.41  | 50.79  | 44.64  | 45.49  | 45.79   | 54.32   | 58.09   | 59.00   | 58.41   | 50.79   | 44.64   | 45.49   | 45.79   | 54.32   | 58.09   | 59.00   |
| 85.00°  | 33.33  | 31.02  | 27.83  | 22.21  | 18.64  | 24.55   | 25.88   | 29.20   | 33.33   | 31.02   | 27.83   | 22.21   | 18.64   | 24.55   | 25.88   | 29.20   | 33.33   |
| 87.50°  | 15.46  | 15.62  | 9.37   | 8.50   | 9.16   | 5.99    | 13.53   | 12.61   | 15.46   | 15.62   | 9.37    | 8.50    | 9.16    | 5.99    | 13.53   | 12.61   | 15.46   |
| 90.00°  | 3.97   | 3.68   | 3.26   | 2.54   | 3.00   | 3.68    | 2.61    | 4.74    | 3.97    | 3.68    | 3.26    | 2.54    | 3.00    | 3.68    | 2.61    | 4.74    | 3.97    |
| 92.50°  | 2.35   | 2.48   | 1.86   | 2.01   | 2.10   | 1.79    | 2.06    | 1.81    | 2.35    | 2.48    | 1.86    | 2.01    | 2.10    | 1.79    | 2.06    | 1.81    | 2.35    |
| 95.00°  | 1.42   | 1.65   | 1.52   | 1.75   | 1.93   | 1.91    | 1.59    | 1.84    | 1.42    | 1.65    | 1.52    | 1.75    | 1.93    | 1.91    | 1.59    | 1.84    | 1.42    |
| 97.50°  | 1.41   | 1.76   | 1.53   | 1.65   | 1.75   | 2.03    | 1.59    | 1.81    | 1.41    | 1.76    | 1.53    | 1.65    | 1.75    | 2.03    | 1.59    | 1.81    | 1.41    |
| 100.00° | 1.47   | 1.81   | 1.74   | 1.69   | 1.57   | 2.09    | 1.58    | 1.73    | 1.47    | 1.81    | 1.74    | 1.69    | 1.57    | 2.09    | 1.58    | 1.73    | 1.47    |
| 102.50° | 1.61   | 1.74   | 1.99   | 1.81   | 1.75   | 2.12    | 1.52    | 1.64    | 1.61    | 1.74    | 1.99    | 1.81    | 1.75    | 2.12    | 1.52    | 1.64    | 1.61    |
| 105.00° | 1.72   | 1.72   | 1.78   | 1.77   | 1.94   | 2.05    | 1.52    | 1.55    | 1.72    | 1.72    | 1.78    | 1.77    | 1.94    | 2.05    | 1.52    | 1.55    | 1.72    |

### 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>   | 2863 | 2863 | 2863 | 2863 | 2795 | 2795 | 2795 | 2795 | 2668 | 2668 | 2668 | 2552 | 2552 | 2552 | 2445 | 2445 | 2395 |
|            | <b>1</b>   | 2619 | 2505 | 2403 | 2311 | 2552 | 2449 | 2356 | 2272 | 2345 | 2268 | 2198 | 2249 | 2186 | 2129 | 2160 | 2110 | 2064 |
|            | <b>2</b>   | 2381 | 2183 | 2020 | 1883 | 2316 | 2137 | 1987 | 1859 | 2049 | 1923 | 1814 | 1969 | 1863 | 1771 | 1894 | 1807 | 1729 |
|            | <b>3</b>   | 2170 | 1917 | 1721 | 1565 | 2109 | 1878 | 1696 | 1550 | 1804 | 1649 | 1520 | 1736 | 1604 | 1492 | 1673 | 1561 | 1465 |
|            | <b>4</b>   | 1986 | 1698 | 1486 | 1325 | 1930 | 1665 | 1467 | 1315 | 1603 | 1431 | 1295 | 1545 | 1396 | 1276 | 1491 | 1363 | 1258 |
|            | <b>5</b>   | 1826 | 1516 | 1300 | 1140 | 1774 | 1489 | 1285 | 1133 | 1436 | 1257 | 1119 | 1387 | 1230 | 1106 | 1341 | 1203 | 1093 |
|            | <b>6</b>   | 1686 | 1365 | 1149 | 994  | 1639 | 1341 | 1138 | 989  | 1297 | 1115 | 980  | 1255 | 1093 | 970  | 1216 | 1072 | 960  |
|            | <b>7</b>   | 1563 | 1237 | 1026 | 878  | 1521 | 1217 | 1016 | 874  | 1179 | 998  | 867  | 1143 | 981  | 859  | 1109 | 964  | 852  |
|            | <b>8</b>   | 1455 | 1129 | 924  | 783  | 1417 | 1112 | 916  | 780  | 1079 | 901  | 774  | 1048 | 886  | 769  | 1019 | 872  | 763  |
|            | <b>9</b>   | 1359 | 1036 | 838  | 704  | 1325 | 1021 | 831  | 702  | 993  | 819  | 697  | 966  | 807  | 693  | 941  | 795  | 689  |
|            | <b>10</b>  | 1274 | 956  | 765  | 638  | 1243 | 943  | 760  | 636  | 918  | 749  | 633  | 895  | 739  | 629  | 873  | 729  | 626  |

### Cone of Light

| Mtg Height | Light Level | Beam Diameter |
|------------|-------------|---------------|
| 5.5 ft     | 28.0 fc     | 16.3 ft       |
| 6.5 ft     | 20.0 fc     | 19.2 ft       |
| 7.5 ft     | 15.1 fc     | 22.2 ft       |
| 8.0 ft     | 13.2 fc     | 23.7 ft       |
| 10.0 ft    | 8.5 fc      | 29.6 ft       |
| 12.0 ft    | 5.9 fc      | 35.5 ft       |
| 14.0 ft    | 4.3 fc      | 41.4 ft       |
| 16.0 ft    | 3.3 fc      | 47.4 ft       |
| 20.0 ft    | 2.1 fc      | 59.2 ft       |
| 24.0 ft    | 1.5 fc      | 71.0 ft       |
| 28.0 ft    | 1.1 fc      | 82.9 ft       |

### Average Luminaire Luminance [cd/m²]

|               | 0.00° | 45.00° | 90.00° |
|---------------|-------|--------|--------|
| <b>0.00°</b>  | 30386 | 30386  | 30386  |
| <b>45.00°</b> | 28520 | 28591  | 28533  |
| <b>55.00°</b> | 27323 | 27356  | 27159  |
| <b>65.00°</b> | 25249 | 25289  | 24904  |
| <b>75.00°</b> | 21672 | 21195  | 20258  |
| <b>85.00°</b> | 13722 | 11455  | 7674   |

### 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  | 23.7             | 25.3 | 24.1 | 25.6 | 26.0 | 23.6           | 25.2 | 24.0 | 25.5 | 25.9 |
|                     | 3H  | 25.5             | 26.9 | 25.8 | 27.3 | 27.6 | 25.3           | 26.8 | 25.7 | 27.1 | 27.5 |
|                     | 4H  | 26.1             | 27.5 | 26.5 | 27.8 | 28.2 | 25.9           | 27.3 | 26.3 | 27.7 | 28.1 |
|                     | 6H  | 26.5             | 27.8 | 27.0 | 28.2 | 28.6 | 26.3           | 27.6 | 26.7 | 27.9 | 28.3 |
|                     | 8H  | 26.7             | 27.9 | 27.1 | 28.3 | 28.7 | 26.4           | 27.6 | 26.8 | 28.0 | 28.4 |
|                     | 12H | 26.7             | 27.9 | 27.2 | 28.3 | 28.7 | 26.4           | 27.6 | 26.8 | 27.9 | 28.4 |
| 4H                  | 2H  | 24.3             | 25.7 | 24.7 | 26.0 | 26.4 | 24.2           | 25.6 | 24.6 | 26.0 | 26.4 |
|                     | 3H  | 26.3             | 27.4 | 26.7 | 27.9 | 28.3 | 26.2           | 27.3 | 26.6 | 27.7 | 28.2 |
|                     | 4H  | 27.1             | 28.1 | 27.5 | 28.5 | 29.0 | 26.9           | 27.9 | 27.3 | 28.4 | 28.8 |
|                     | 6H  | 27.6             | 28.5 | 28.1 | 29.0 | 29.4 | 27.4           | 28.3 | 27.8 | 28.7 | 29.2 |
|                     | 8H  | 27.8             | 28.6 | 28.2 | 29.1 | 29.6 | 27.5           | 28.3 | 27.9 | 28.8 | 29.2 |
|                     | 12H | 27.9             | 28.6 | 28.4 | 29.1 | 29.6 | 27.5           | 28.3 | 28.0 | 28.7 | 29.2 |
| 8H                  | 4H  | 27.3             | 28.2 | 27.8 | 28.6 | 29.1 | 27.2           | 28.0 | 27.7 | 28.5 | 29.0 |
|                     | 6H  | 28.0             | 28.7 | 28.5 | 29.2 | 29.7 | 27.7           | 28.4 | 28.2 | 28.9 | 29.4 |
|                     | 8H  | 28.2             | 28.8 | 28.7 | 29.4 | 29.9 | 27.9           | 28.5 | 28.4 | 29.0 | 29.5 |
|                     | 12H | 28.4             | 28.9 | 28.9 | 29.4 | 30.0 | 28.0           | 28.5 | 28.5 | 29.0 | 29.6 |
| 12H                 | 4H  | 27.3             | 28.1 | 27.8 | 28.6 | 29.1 | 27.2           | 28.0 | 27.7 | 28.5 | 28.9 |
|                     | 6H  | 28.0             | 28.7 | 28.6 | 29.1 | 29.7 | 27.8           | 28.4 | 28.3 | 28.9 | 29.4 |
|                     | 8H  | 28.3             | 28.8 | 28.8 | 29.3 | 29.9 | 28.0           | 28.5 | 28.5 | 29.0 | 29.6 |

Corrected UGR values based on total output energy  
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0