

Indoor Distribution Test Report

Spectrum Lighting Inc.

994 Jefferson Street
Fall River, MA 02721
+1.508.678.2303

Spectrum Lighting Photometric Lab

Luminaire

SGRTE8XT 40L 35K XW XX AR8466XT SG SO
N/A

Test Number

SP-01211_2_M-40L

Test Date

2/11/2021

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

Summary of Results

Power

| | |
|-------------|--------|
| Input Watts | 42.2 W |
|-------------|--------|

Lumen Output

| | |
|---------------|------------|
| Output Lumens | 2706 |
| Efficacy | 64.11 lm/W |

Luminous Dimensions

| | |
|-----------------|-------|
| 0° - 180° Size | -0.63 |
| 90° - 270° Size | -0.63 |
| Height | 0 |

Spacing Criterion

| | |
|---------------------------|------|
| Two luminaires, plane 0° | 0.87 |
| Two luminaires, plane 90° | 0.82 |
| Four luminaires | 0.84 |

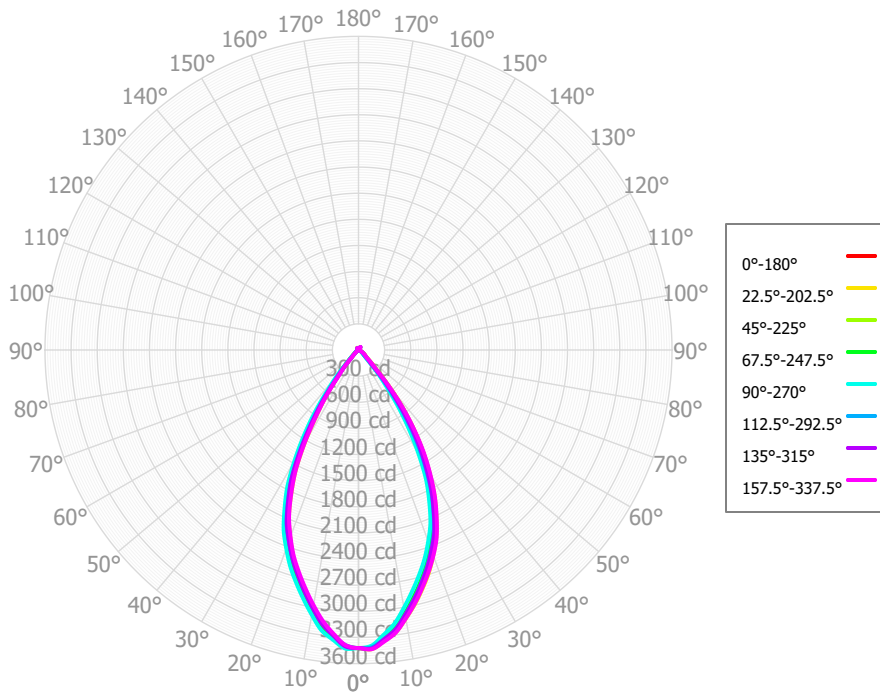
Full Beam Angle

| | |
|------------|-----|
| 0° - 180° | 55° |
| 90° - 270° | 55° |

IES File Header Contents

| Keyword | Value |
|-----------|--|
| TEST | SP-01211_2_M-40L |
| TESTLAB | Spectrum Lighting Photometric Lab, VLS-245-981 |
| MANUFAC | Spectrum Lighting |
| TESTDATE | 2/11/2021 |
| ISSUEDATE | 2/25/2021 |
| LUMCAT | SGRTE8XT 40L 35K XW XX AR8466XT SG SO |
| LUMINAIRE | N/A |
| OTHER | Beam Angle: 55 degrees |
| LAMPCAT | N/A |
| LAMP | 19mm LES |
| OTHER | LEDXT lumen output is the same for all available CCT's |
| OTHER | Total luminaire watts is approximate; includes 2 watts for thermal protector |
| OTHER | This report prepared by Spectrum Lighting, scaled from 50L |

Candela Polar Plot



Zonal Lumen Summary

| Zone | Lumens | % Fixture | Zone | Lumens | % Fixture |
|-----------------|---------|-----------|-------------------|---------|-----------|
| 0.00° - 10.00° | 312.87 | 11.56% | 90.00° - 100.00° | 1.22 | 0.04% |
| 10.00° - 20.00° | 763.02 | 28.20% | 100.00° - 110.00° | 1.20 | 0.04% |
| 20.00° - 30.00° | 889.95 | 32.89% | 100.00° - 120.00° | 2.83 | 0.10% |
| 30.00° - 40.00° | 532.68 | 19.69% | 120.00° - 130.00° | 2.83 | 0.10% |
| 40.00° - 50.00° | 116.55 | 4.31% | 130.00° - 140.00° | 4.76 | 0.18% |
| 50.00° - 60.00° | 41.68 | 1.54% | 140.00° - 150.00° | 13.13 | 0.49% |
| 60.00° - 70.00° | 11.28 | 0.42% | 150.00° - 160.00° | 7.13 | 0.26% |
| 70.00° - 80.00° | 1.26 | 0.05% | 160.00° - 170.00° | 2.84 | 0.11% |
| 80.00° - 90.00° | 1.25 | 0.05% | 170.00° - 180.00° | 0.28 | 0.01% |
| 0.00° - 90.00° | 2670.54 | 98.71% | 0.00° - 180.00° | 2705.56 | 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° | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 | 3422.53 |
| 2.50° | 3430.88 | 3439.06 | 3417.88 | 3414.32 | 3399.32 | 3392.95 | 3407.79 | 3392.68 | 3402.46 | 3403.84 | 3411.20 | 3409.53 | 3431.48 | 3418.63 | 3432.37 | 3439.24 | 3430.88 |
| 5.00° | 3350.62 | 3357.25 | 3333.45 | 3325.79 | 3285.24 | 3290.05 | 3293.27 | 3273.00 | 3294.77 | 3288.73 | 3312.66 | 3316.33 | 3341.63 | 3337.00 | 3337.02 | 3362.19 | 3350.62 |
| 7.50° | 3260.08 | 3272.01 | 3225.47 | 3214.47 | 3168.90 | 3166.08 | 3177.96 | 3137.81 | 3172.21 | 3169.08 | 3199.24 | 3206.85 | 3248.63 | 3239.90 | 3240.56 | 3274.19 | 3260.08 |
| 10.00° | 3115.75 | 3131.17 | 3084.63 | 3068.05 | 3004.69 | 3005.66 | 3012.99 | 2975.01 | 3008.18 | 3006.06 | 3041.76 | 3044.73 | 3088.07 | 3089.10 | 3089.24 | 3129.66 | 3115.75 |
| 12.50° | 2970.22 | 2989.55 | 2933.86 | 2911.76 | 2840.67 | 2835.92 | 2848.02 | 2807.64 | 2837.39 | 2841.16 | 2882.04 | 2881.60 | 2925.77 | 2935.90 | 2937.73 | 2983.41 | 2970.22 |
| 15.00° | 2818.72 | 2836.99 | 2777.24 | 2750.75 | 2680.06 | 2673.89 | 2682.08 | 2641.93 | 2665.45 | 2665.47 | 2715.94 | 2715.37 | 2765.62 | 2774.73 | 2779.74 | 2828.80 | 2818.72 |
| 17.50° | 2664.78 | 2682.97 | 2618.91 | 2588.46 | 2518.44 | 2513.74 | 2515.95 | 2476.50 | 2493.33 | 2489.40 | 2542.78 | 2543.82 | 2605.51 | 2611.59 | 2621.29 | 2673.15 | 2664.78 |
| 20.00° | 2499.06 | 2509.47 | 2444.31 | 2412.63 | 2340.31 | 2337.88 | 2334.24 | 2282.90 | 2303.14 | 2290.73 | 2350.00 | 2356.18 | 2425.07 | 2442.09 | 2449.23 | 2512.75 | 2499.06 |
| 22.50° | 2323.46 | 2332.52 | 2265.13 | 2233.33 | 2158.66 | 2158.32 | 2151.52 | 2085.09 | 2110.30 | 2091.47 | 2143.40 | 2154.02 | 2244.44 | 2259.53 | 2274.80 | 2341.79 | 2323.46 |
| 25.00° | 2103.05 | 2114.82 | 2047.37 | 2015.28 | 1923.56 | 1915.58 | 1909.50 | 1830.90 | 1859.36 | 1830.58 | 1899.93 | 1909.77 | 2007.14 | 2036.48 | 2043.80 | 2123.52 | 2103.05 |
| 27.50° | 1876.66 | 1893.46 | 1819.24 | 1787.58 | 1683.77 | 1658.68 | 1665.48 | 1568.87 | 1600.48 | 1568.36 | 1635.12 | 1647.09 | 1769.36 | 1799.48 | 1811.30 | 1899.09 | 1876.66 |
| 30.00° | 1623.90 | 1633.11 | 1550.94 | 1512.92 | 1381.36 | 1350.31 | 1342.19 | 1247.70 | 1279.89 | 1240.38 | 1315.58 | 1333.13 | 1469.17 | 1521.02 | 1549.03 | 1648.44 | 1623.90 |
| 32.50° | 1366.81 | 1371.45 | 1272.12 | 1227.15 | 1080.16 | 1030.74 | 1019.64 | 918.64 | 951.23 | 911.53 | 1006.48 | 1026.75 | 1169.02 | 1237.28 | 1285.20 | 1392.06 | 1366.81 |
| 35.00° | 1091.63 | 1096.51 | 997.43 | 943.89 | 794.08 | 739.34 | 719.10 | 644.95 | 682.77 | 660.56 | 723.58 | 741.00 | 874.69 | 938.20 | 993.25 | 1111.98 | 1091.63 |
| 37.50° | 814.35 | 821.86 | 723.77 | 661.20 | 515.23 | 453.75 | 423.92 | 378.08 | 421.60 | 409.99 | 474.63 | 485.55 | 581.82 | 655.28 | 703.75 | 830.90 | 814.35 |
| 40.00° | 528.79 | 549.96 | 480.42 | 426.89 | 317.43 | 280.97 | 268.50 | 236.69 | 269.09 | 269.45 | 307.67 | 309.39 | 382.60 | 417.43 | 452.19 | 545.86 | 528.79 |
| 42.50° | 282.36 | 297.24 | 244.43 | 203.14 | 134.41 | 130.75 | 118.59 | 110.08 | 129.13 | 129.73 | 171.72 | 166.18 | 186.08 | 222.38 | 213.46 | 299.64 | 282.36 |
| 45.00° | 187.51 | 205.90 | 162.28 | 127.86 | 100.98 | 85.94 | 85.88 | 75.18 | 85.67 | 92.16 | 109.16 | 105.87 | 124.35 | 144.06 | 160.20 | 202.06 | 187.51 |
| 47.50° | 109.60 | 123.04 | 115.64 | 83.26 | 69.73 | 61.01 | 54.33 | 50.18 | 52.42 | 54.98 | 61.92 | 59.94 | 64.08 | 85.10 | 109.94 | 122.22 | 109.60 |
| 50.00° | 94.24 | 108.34 | 96.34 | 67.30 | 59.46 | 48.65 | 43.71 | 38.16 | 39.32 | 43.15 | 49.58 | 49.41 | 55.47 | 76.91 | 98.11 | 107.13 | 94.24 |
| 52.50° | 79.43 | 93.73 | 83.02 | 56.94 | 49.39 | 38.53 | 33.35 | 27.49 | 28.16 | 31.44 | 38.40 | 39.58 | 46.86 | 68.42 | 86.14 | 91.84 | 79.43 |
| 55.00° | 66.58 | 79.80 | 70.73 | 48.21 | 41.02 | 31.76 | 27.21 | 22.57 | 23.32 | 25.29 | 29.80 | 31.42 | 38.17 | 59.20 | 72.51 | 75.85 | 66.58 |
| 57.50° | 53.76 | 65.70 | 58.66 | 39.79 | 32.59 | 25.56 | 21.17 | 18.20 | 19.06 | 19.19 | 22.44 | 24.23 | 29.58 | 49.76 | 58.81 | 60.39 | 53.76 |
| 60.00° | 41.09 | 50.34 | 43.47 | 29.91 | 23.75 | 18.88 | 16.74 | 13.59 | 14.97 | 14.51 | 17.74 | 19.29 | 23.60 | 39.79 | 44.45 | 46.70 | 41.09 |
| 62.50° | 27.83 | 34.66 | 27.66 | 19.77 | 15.08 | 12.13 | 12.22 | 8.96 | 10.89 | 9.83 | 12.51 | 13.76 | 17.54 | 28.33 | 30.03 | 32.15 | 27.83 |
| 65.00° | 12.64 | 16.86 | 15.06 | 11.08 | 7.66 | 6.95 | 6.58 | 5.15 | 6.37 | 5.48 | 6.19 | 6.93 | 9.69 | 13.34 | 15.08 | 14.74 | 12.64 |
| 67.50° | 1.12 | 1.45 | 3.06 | 2.64 | 1.15 | 2.01 | 1.38 | 1.41 | 1.81 | 1.30 | 1.81 | 2.08 | 2.25 | 2.58 | 1.55 | 1.47 | 1.12 |
| 70.00° | 1.18 | 1.42 | 1.26 | 1.45 | 1.14 | 1.11 | 1.41 | 1.09 | 1.55 | 1.02 | 1.39 | 1.58 | 1.74 | 1.69 | 1.13 | 1.06 | 1.18 |
| 72.50° | 1.18 | 1.39 | 1.33 | 1.43 | 1.16 | 0.78 | 1.44 | 1.01 | 1.59 | 0.77 | 1.16 | 1.23 | 1.27 | 1.03 | 0.76 | 0.80 | 1.18 |
| 75.00° | 1.02 | 1.40 | 1.25 | 1.38 | 1.40 | 0.85 | 1.43 | 1.10 | 1.29 | 1.05 | 1.32 | 1.22 | 1.43 | 0.89 | 0.75 | 1.00 | 1.02 |
| 77.50° | 1.00 | 1.39 | 1.16 | 1.31 | 1.57 | 0.98 | 1.42 | 1.20 | 0.97 | 1.32 | 1.29 | 1.18 | 1.55 | 0.85 | 0.78 | 1.11 | 1.00 |
| 80.00° | 1.36 | 1.30 | 1.27 | 1.20 | 1.21 | 1.13 | 1.26 | 1.25 | 1.02 | 1.28 | 0.91 | 1.10 | 1.20 | 1.05 | 1.09 | 0.98 | 1.36 |
| 82.50° | 1.53 | 1.22 | 1.41 | 1.08 | 0.91 | 1.29 | 1.12 | 1.30 | 1.10 | 1.23 | 0.78 | 1.15 | 0.91 | 1.09 | 1.36 | 0.89 | 1.53 |
| 85.00° | 1.14 | 1.16 | 1.39 | 1.08 | 0.92 | 1.19 | 1.15 | 1.31 | 1.05 | 1.16 | 1.12 | 1.47 | 1.31 | 0.81 | 1.34 | 0.92 | 1.14 |
| 87.50° | 0.87 | 1.11 | 1.34 | 1.10 | 0.94 | 1.05 | 1.17 | 1.32 | 1.00 | 1.09 | 1.24 | 1.53 | 1.67 | 0.68 | 1.30 | 0.95 | 0.87 |
| 90.00° | 0.91 | 1.06 | 1.18 | 1.07 | 1.06 | 1.06 | 1.25 | 1.29 | 1.16 | 1.10 | 0.97 | 1.06 | 1.57 | 0.84 | 1.15 | 1.01 | 0.91 |
| 92.50° | 1.00 | 1.02 | 1.00 | 1.04 | 1.19 | 1.08 | 1.30 | 1.27 | 1.34 | 1.11 | 0.83 | 0.82 | 1.48 | 0.95 | 1.06 | 1.03 | 1.00 |
| 95.00° | 1.20 | 0.99 | 1.13 | 1.13 | 1.33 | 0.92 | 1.09 | 1.03 | 1.37 | 1.08 | 0.91 | 1.01 | 1.37 | 0.96 | 1.38 | 0.97 | 1.20 |
| 97.50° | 1.34 | 0.96 | 1.30 | 1.24 | 1.42 | 0.74 | 0.91 | 0.80 | 1.40 | 1.05 | 0.97 | 1.19 | 1.27 | 1.04 | 1.61 | 0.92 | 1.34 |
| 100.00° | 1.30 | 0.97 | 1.21 | 1.31 | 1.23 | 0.82 | 0.99 | 0.88 | 1.16 | 1.08 | 0.99 | 1.37 | 1.20 | 1.24 | 1.25 | 0.87 | 1.30 |
| 102.50° | 1.27 | 0.98 | 1.08 | 1.38 | 1.07 | 0.92 | 1.07 | 0.97 | 0.91 | 1.11 | 1.03 | 1.44 | 1.13 | 1.34 | 0.95 | 0.89 | 1.27 |
| 105.00° | 1.26 | 0.94 | 1.31 | 1.37 | 1.02 | 0.98 | 1.11 | 0.88 | 1.20 | 1.05 | 1.11 | 1.31 | 1.10 | 1.22 | 0.96 | 1.10 | 1.26 |
| 107.50° | 1.29 | 0.94 | 1.58 | 1.36 | 1.05 | 1.02 | 1.15 | 0.78 | 1.49 | 1.01 | 1.18 | 1.16 | 1.07 | 1.17 | 0.99 | 1.23 | 1.29 |
| 110.00° | 1.39 | 1.05 | 1.38 | 1.42 | 1.41 | 1.06 | 1.25 | 1.21 | 1.37 | 1.07 | 1.20 | 0.99 | 1.11 | 1.24 | 1.17 | 1.22 | 1.39 |
| 112.50° | 1.44 | 1.17 | 1.12 | 1.49 | 1.78 | 1.10 | 1.32 | 1.65 | 1.24 | 1.13 | 1.17 | 1.26 | 1.22 | 1.65 | 1.34 | 1.24 | 1.44 |

Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

| | | | | | | | | | | | | | | | | | | |
|------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| RCR | pfc | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 20% | 0% |
| | pcc | 80% | 80% | 80% | 80% | 70% | 70% | 70% | 70% | 50% | 50% | 50% | 30% | 30% | 30% | 10% | 10% | 0% |
| | pw | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 30% |
| | 0 | 3213 | 3213 | 3213 | 3213 | 3134 | 3134 | 3134 | 3134 | 2987 | 2987 | 2987 | 2852 | 2852 | 2852 | 2729 | 2729 | 2671 |
| | 1 | 3064 | 2990 | 2923 | 2864 | 2994 | 2928 | 2869 | 2815 | 2812 | 2765 | 2722 | 2706 | 2669 | 2635 | 2608 | 2579 | 2553 |
| | 2 | 2915 | 2785 | 2677 | 2587 | 2852 | 2735 | 2638 | 2555 | 2642 | 2563 | 2494 | 2557 | 2492 | 2435 | 2477 | 2426 | 2379 |
| | 3 | 2770 | 2599 | 2467 | 2361 | 2714 | 2559 | 2437 | 2340 | 2483 | 2382 | 2298 | 2413 | 2329 | 2258 | 2348 | 2278 | 2219 |
| | 4 | 2633 | 2432 | 2284 | 2172 | 2581 | 2398 | 2262 | 2157 | 2336 | 2220 | 2128 | 2278 | 2179 | 2099 | 2224 | 2141 | 2072 |
| | 5 | 2502 | 2280 | 2125 | 2010 | 2456 | 2252 | 2108 | 1999 | 2200 | 2075 | 1978 | 2152 | 2043 | 1958 | 2107 | 2013 | 1938 |
| | 6 | 2379 | 2143 | 1983 | 1869 | 2338 | 2119 | 1970 | 1861 | 2075 | 1944 | 1846 | 2034 | 1919 | 1831 | 1996 | 1895 | 1816 |
| | 7 | 2265 | 2018 | 1858 | 1745 | 2227 | 1998 | 1847 | 1740 | 1961 | 1826 | 1728 | 1926 | 1806 | 1717 | 1893 | 1787 | 1705 |
| | 8 | 2157 | 1904 | 1745 | 1636 | 2123 | 1887 | 1736 | 1631 | 1855 | 1719 | 1622 | 1825 | 1703 | 1613 | 1797 | 1687 | 1605 |
| | 9 | 2057 | 1800 | 1643 | 1537 | 2026 | 1786 | 1636 | 1534 | 1758 | 1622 | 1527 | 1732 | 1608 | 1520 | 1707 | 1595 | 1513 |
| | 10 | 1964 | 1706 | 1552 | 1449 | 1935 | 1693 | 1546 | 1446 | 1669 | 1534 | 1440 | 1646 | 1522 | 1435 | 1624 | 1511 | 1429 |

Cone of Light

| Mtg Height | Light Level | Beam Diameter |
|------------|-------------|---------------|
| 5.5 ft | 113.1 fc | 5.9 ft |
| 6.5 ft | 81.0 fc | 6.9 ft |
| 7.5 ft | 60.8 fc | 8.0 ft |
| 8.0 ft | 53.5 fc | 8.5 ft |
| 10.0 ft | 34.2 fc | 10.7 ft |
| 12.0 ft | 23.8 fc | 12.8 ft |
| 14.0 ft | 17.5 fc | 14.9 ft |
| 16.0 ft | 13.4 fc | 17.1 ft |
| 20.0 ft | 8.6 fc | 21.4 ft |
| 24.0 ft | 5.9 fc | 25.6 ft |
| 28.0 ft | 4.4 fc | 29.9 ft |

Average Luminaire Luminance [cd/m²]

| | 0.00° | 45.00° | 90.00° |
|---------------|--------|--------|--------|
| 0.00° | 118181 | 118181 | 118181 |
| 45.00° | 9157 | 7925 | 4931 |
| 55.00° | 4008 | 4258 | 2469 |
| 65.00° | 1033 | 1230 | 626 |
| 75.00° | 137 | 167 | 187 |
| 85.00° | 452 | 549 | 363 |

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 | 9.9 | 10.9 | 10.3 | 11.2 | 11.5 | 3.9 | 4.9 | 4.3 | 5.2 | 5.6 |
| | 3H | 9.7 | 10.5 | 10.1 | 10.9 | 11.3 | 3.8 | 4.6 | 4.2 | 5.0 | 5.4 |
| | 4H | 9.6 | 10.4 | 10.0 | 10.8 | 11.2 | 3.7 | 4.5 | 4.1 | 4.8 | 5.3 |
| | 6H | 9.5 | 10.2 | 9.9 | 10.6 | 11.0 | 3.6 | 4.3 | 4.1 | 4.7 | 5.1 |
| | 8H | 9.4 | 10.1 | 9.9 | 10.5 | 11.0 | 3.6 | 4.2 | 4.0 | 4.7 | 5.1 |
| | 12H | 9.4 | 10.0 | 9.9 | 10.4 | 10.9 | 3.6 | 4.2 | 4.0 | 4.6 | 5.1 |
| 4H | 2H | 9.7 | 10.5 | 10.2 | 10.9 | 11.3 | 3.8 | 4.5 | 4.2 | 4.9 | 5.3 |
| | 3H | 9.5 | 10.1 | 9.9 | 10.6 | 11.0 | 3.6 | 4.2 | 4.0 | 4.6 | 5.1 |
| | 4H | 9.4 | 9.9 | 9.9 | 10.4 | 10.9 | 3.5 | 4.0 | 3.9 | 4.5 | 5.0 |
| | 6H | 9.3 | 9.8 | 9.8 | 10.2 | 10.7 | 3.4 | 3.9 | 3.9 | 4.4 | 4.9 |
| | 8H | 9.2 | 9.7 | 9.7 | 10.1 | 10.7 | 3.4 | 3.8 | 3.9 | 4.3 | 4.8 |
| | 12H | 9.2 | 9.6 | 9.7 | 10.1 | 10.6 | 3.4 | 3.8 | 3.9 | 4.3 | 4.8 |
| 8H | 4H | 9.2 | 9.6 | 9.7 | 10.1 | 10.6 | 3.3 | 3.8 | 3.8 | 4.2 | 4.7 |
| | 6H | 9.1 | 9.4 | 9.6 | 10.0 | 10.5 | 3.3 | 3.6 | 3.8 | 4.2 | 4.7 |
| | 8H | 9.0 | 9.3 | 9.6 | 9.9 | 10.4 | 3.3 | 3.6 | 3.8 | 4.1 | 4.7 |
| | 12H | 9.0 | 9.3 | 9.6 | 9.8 | 10.4 | 3.4 | 3.6 | 3.9 | 4.2 | 4.8 |
| 12H | 4H | 9.1 | 9.5 | 9.7 | 10.0 | 10.5 | 3.3 | 3.6 | 3.8 | 4.1 | 4.7 |
| | 6H | 9.0 | 9.3 | 9.6 | 9.8 | 10.4 | 3.2 | 3.5 | 3.8 | 4.0 | 4.6 |
| | 8H | 9.0 | 9.3 | 9.5 | 9.8 | 10.4 | 3.3 | 3.5 | 3.8 | 4.0 | 4.7 |

Corrected UGR values based on total output energy
 SHR = 1.0

Corrected UGR values based on total output lumens

SHR = 1.0