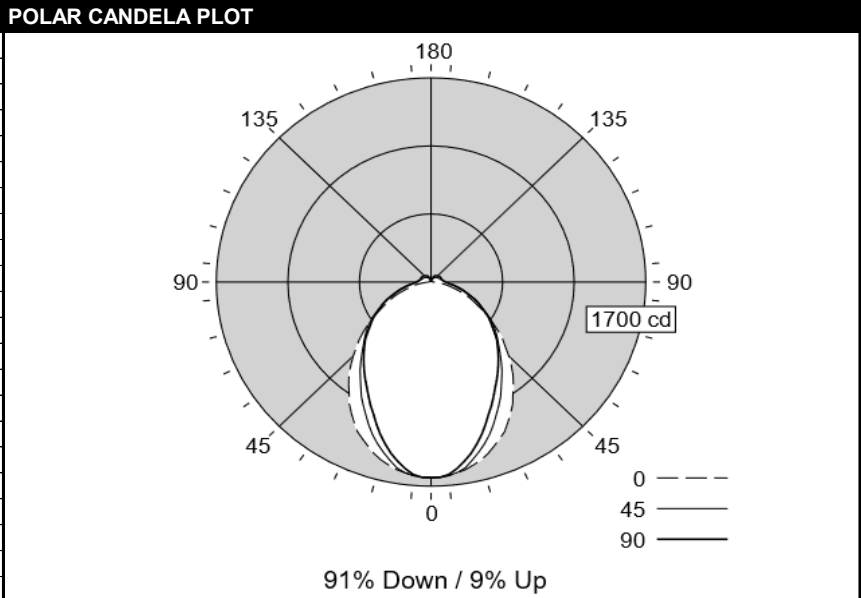


LEDALITE - TG SUSPENDED/SURFACE/WALL MICRO

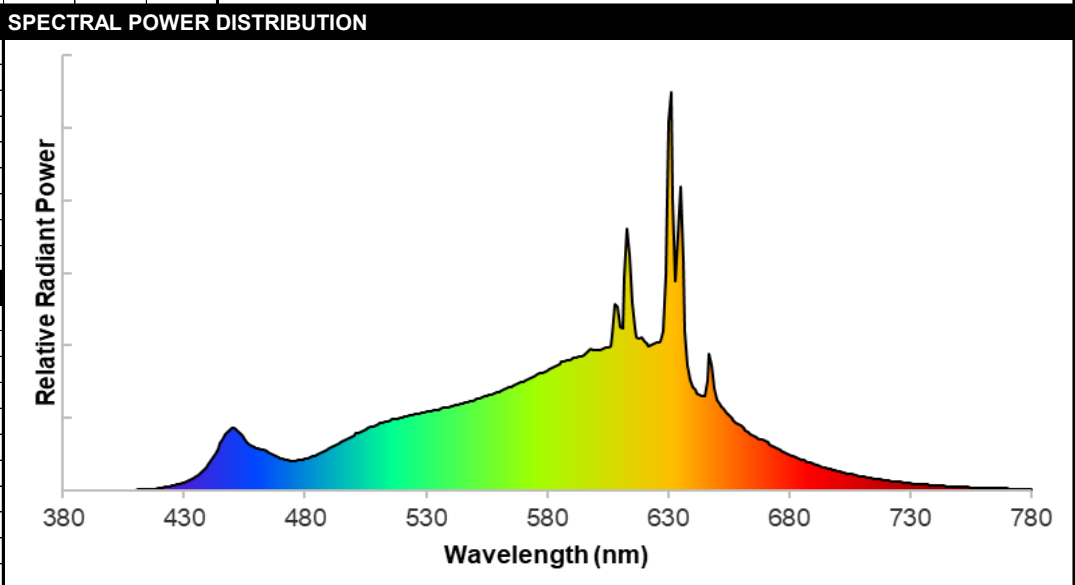
| | | | |
|--------------------------------|--------------|--------------------------------------|------------------------|
| TEST DATE: | 05 Oct 2022 | CATALOG NO: | TMx1L9T2DNNNN40NNN-27 |
| Lamp Type: | LED | Description: | DROP 4000LM DOWN TW-27 |
| No. of Lamps: | 192 | | |
| Rated Lamp Lumens: | -1 | Flux (lm), Efficiency (%): | 4000 lm 100% |
| Input Watts: | 120 VAC 38.1 | Up/Dn Ratio, Efficacy (lm/W): | 91% Down / 9% Up 105.0 |
| CIE-IES Classification: | Direct | Report: | LNG10323 |

| CANDELA DISTRIBUTION | | | | | | Flux |
|----------------------|------|------|------|------|------|--------|
| | 0 | 22.5 | 45 | 67.5 | 90 | Lumens |
| 0 | 1629 | 1629 | 1629 | 1629 | 1629 | |
| 5 | 1617 | 1615 | 1619 | 1606 | 1609 | 152 |
| 15 | 1533 | 1516 | 1465 | 1397 | 1398 | 410 |
| 25 | 1377 | 1312 | 1222 | 1138 | 1134 | 567 |
| 35 | 1130 | 1061 | 976 | 916 | 920 | 624 |
| 45 | 871 | 808 | 760 | 736 | 744 | 601 |
| 55 | 599 | 560 | 595 | 557 | 574 | 516 |
| 65 | 363 | 370 | 419 | 408 | 411 | 392 |
| 75 | 174 | 214 | 267 | 255 | 255 | 253 |
| 85 | 45 | 96 | 149 | 144 | 142 | 137 |
| 90 | 17 | 64 | 113 | 116 | 113 | |
| 95 | 15 | 62 | 98 | 107 | 101 | 89 |
| 105 | 11 | 48 | 80 | 88 | 87 | 71 |
| 115 | 8 | 40 | 71 | 84 | 85 | 60 |
| 125 | 8 | 33 | 62 | 78 | 81 | 49 |
| 135 | 7 | 26 | 53 | 69 | 74 | 37 |
| 145 | 8 | 19 | 43 | 60 | 64 | 25 |
| 155 | 9 | 14 | 30 | 46 | 50 | 14 |
| 165 | 9 | 11 | 16 | 26 | 27 | 5 |
| 175 | 10 | 10 | 10 | 12 | 11 | 1 |
| 180 | 10 | 10 | 10 | 10 | 10 | |



| CHARACTERISTICS | | | | | COEFFICIENTS OF UTILIZATION (%) | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|---------------------------------|--------|-------|---------|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|--|--|--|
| RP1 | | | | | None | | Pc--- | 80 | | | | 70 | | | 50 | | | 0 | | | | | |
| Direct: Peak Candela & Angle (0°) | | | | | 1629.0 | 0.0 | Pw--- | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 50 | 30 | 10 | 0 | | | | | |
| Direct: Peak Candela & Angle (90°) | | | | | 1629.0 | 0.0 | RCR | | | | | | | | | | | | | | | | |
| Spacing Criteria (0°, 90°, 180°) | | | | | 1.16 | 0.97 | N/A | 0 | 117 | 117 | 117 | 117 | 113 | 113 | 113 | 106 | 106 | 106 | 91 | | | | |
| Beam (H, V), Field (H, V) | | | | | 81.8 | 93.9 | 166.3 | 151.7 | 1 | 106 | 102 | 97 | 93 | 103 | 98 | 94 | 93 | 89 | 86 | 76 | | | |
| Indirect: Peak Candela & Angle(°) | | | | | 112.7 | 90.0 | 2 | 97 | 89 | 82 | 76 | 94 | 86 | 80 | 81 | 76 | 72 | 63 | | | | | |
| Indirect: Zenith Candela, Peak to Zenith | | | | | 9.9 | 11.38 | 3 | 89 | 78 | 70 | 64 | 86 | 76 | 69 | 72 | 66 | 61 | 54 | | | | | |
| Luminous Width, Length, Height (ft) | | | | | 0.14 | 4.00 | 0.08 | 4 | 82 | 70 | 61 | 55 | 79 | 68 | 60 | 64 | 58 | 52 | 47 | | | | |
| DLC, UGR (4H x 8H, 1.0H), MDER | | | | | N/A | 25.3 | 0.449 | 5 | 75 | 63 | 54 | 48 | 72 | 61 | 53 | 58 | 51 | 46 | 41 | | | | |
| x, y, CCT, D _{uv} | | | | | 0.4585 | 0.4083 | 2702 | -0.0007 | 6 | 70 | 57 | 48 | 42 | 67 | 55 | 47 | 53 | 46 | 40 | 36 | | | |
| CRI (R _a), R _g , G _a , C _g | | | | | 94 | 54 | 98 | 92 | 7 | 65 | 52 | 43 | 37 | 62 | 50 | 42 | 48 | 41 | 36 | 32 | | | |
| TM-30-18 R _f , R _{f,h1} , R _g , R _{g,h1} | | | | | 92 | 90 | 99 | -6% | 8 | 60 | 47 | 39 | 33 | 58 | 46 | 38 | 44 | 37 | 32 | 29 | | | |
| 120V: P(W), I(A), THD(%), PF | | | | | 38.1 | 0.318 | 6.4 | 0.996 | 9 | 57 | 44 | 36 | 30 | 55 | 43 | 35 | 41 | 34 | 29 | 26 | | | |
| 277V: P(W), I(A), THD(%), PF | | | | | 37.5 | 0.143 | 11.3 | 0.949 | 10 | 53 | 40 | 33 | 27 | 51 | 39 | 32 | 38 | 31 | 27 | 24 | | | |
| 347V: P(W), I(A), THD(%), PF | | | | | 0.0 | 0.000 | 0.0 | 0.000 | *Based on a floor reflectance of 0.2 | | | | | | | | | | | | | | |

| ZONAL LUMENS (lm) | | | |
|-------------------|--------|----------|--------|
| Zone | Lumens | %Fixture | %Lamp |
| 0-30 | 1129 | 28.2% | 28.2% |
| 0-40 | 1753 | 43.8% | 43.8% |
| 0-60 | 2870 | 71.7% | 71.7% |
| 0-90 | 3651 | 91.3% | 91.3% |
| 90-130 | 268 | 6.7% | 6.7% |
| 90-150 | 329 | 8.2% | 8.2% |
| 90-180 | 349 | 8.7% | 8.7% |
| 0-180 | 4000 | 100.0% | 100.0% |

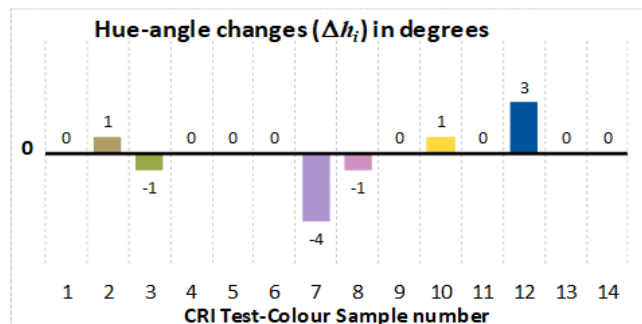
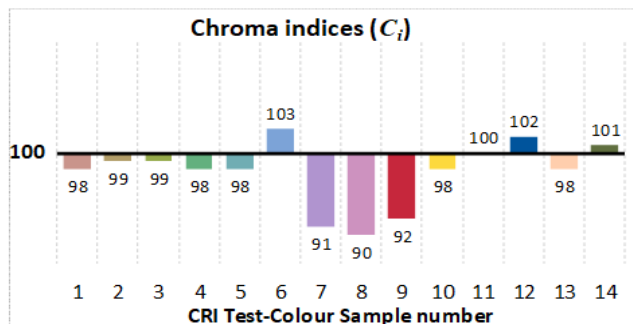
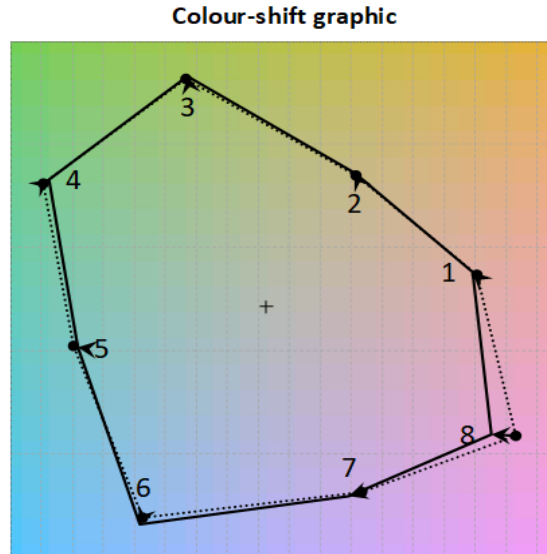
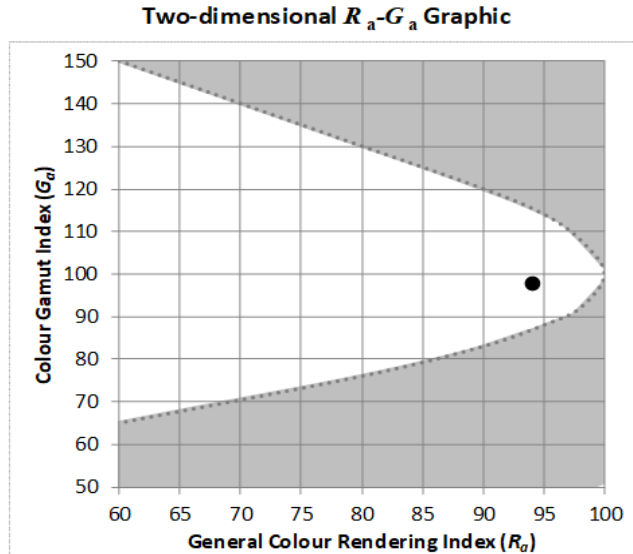
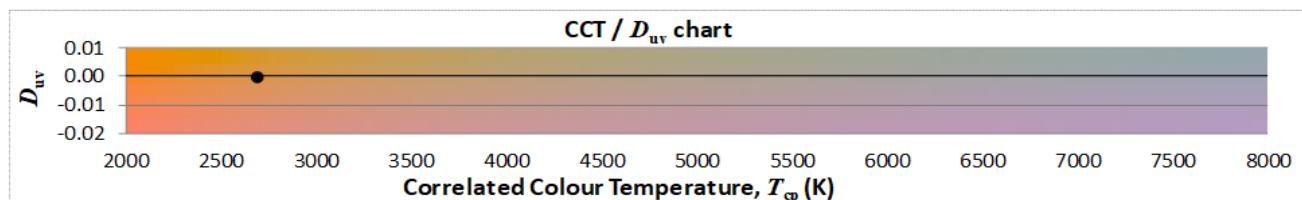
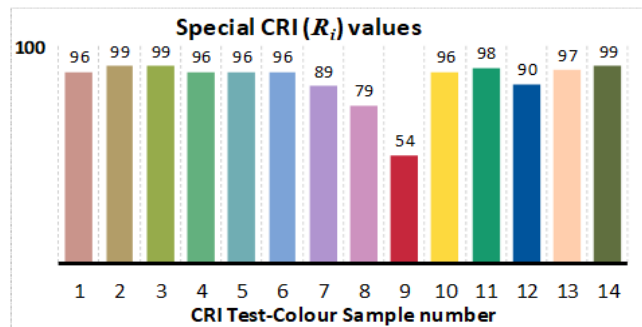
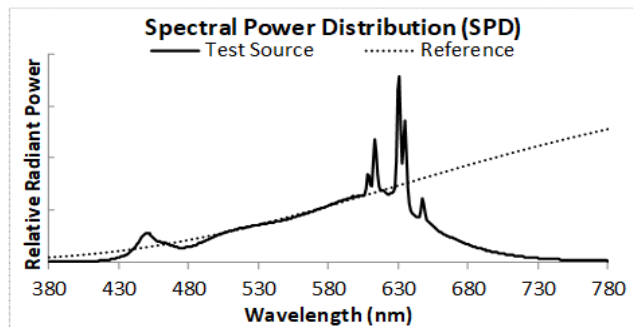


| AVG LUMINANCE (cd/m²) | | | |
|-----------------------|-------|-------|-------|
| | 0 | 45 | 90 |
| 0 | 31300 | 31300 | 31300 |
| 5 | 31141 | 30119 | 29564 |
| 15 | 30338 | 26202 | 24120 |
| 25 | 28921 | 21671 | 18975 |
| 35 | 26149 | 17706 | 15416 |
| 45 | 23212 | 14568 | 12870 |
| 55 | 19522 | 12479 | 10586 |
| 65 | 15829 | 10038 | 8386 |
| 75 | 12034 | 7743 | 6041 |
| 85 | 8039 | 5687 | 4162 |

Output of GLA Calculation Tool for CIE 13.3 CRI and Associated CRI-based Colour Rendition Properties

| | | | |
|--------------|---------------|---------------|---------------------------|
| Test Number: | TGSM TW 2700K | Manufacturer: | Ledalite by Signify |
| Date: | 1 Jun 2022 | Model: | TruGroove Suspended Micro |

| | | | |
|---|---------|---------------------------------------|--------|
| Correlated Colour Temperature (T_{cp}) in K | 2702 | CIE1931 chromaticity coordinate, x | 0.4585 |
| Distance to Blackbody Locus (D_{uv}) | -0.0007 | CIE1931 chromaticity coordinate, y | 0.4083 |
| General Colour Rendering Index (R_a) | 94 | CIE1976 chromaticity coordinate, u' | 0.2626 |
| Red Rendering Index (R_9) | 54 | CIE1976 chromaticity coordinate, v' | 0.5263 |
| Colour Gamut Index (G_a) | 98 | | |
| Red Chroma Index (C_9) | 92 | | |



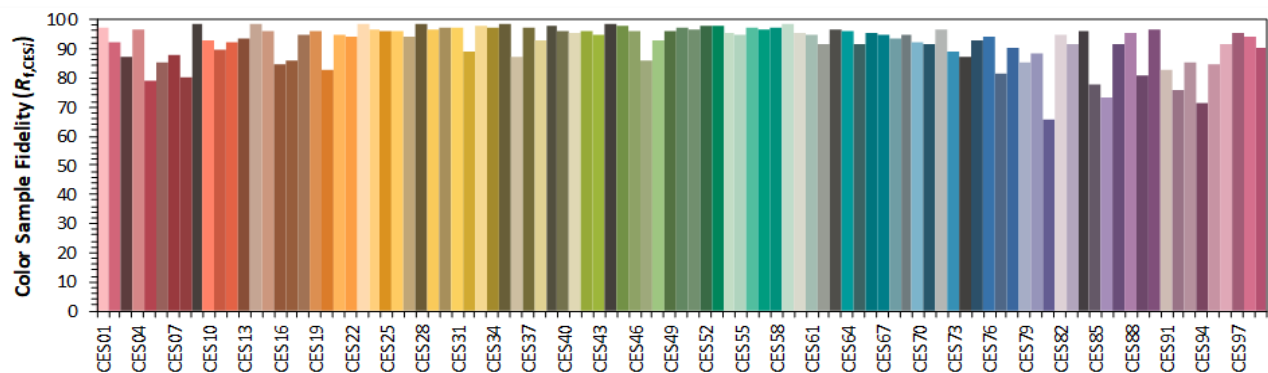
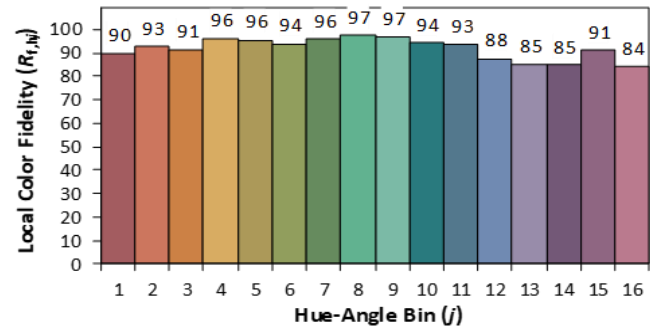
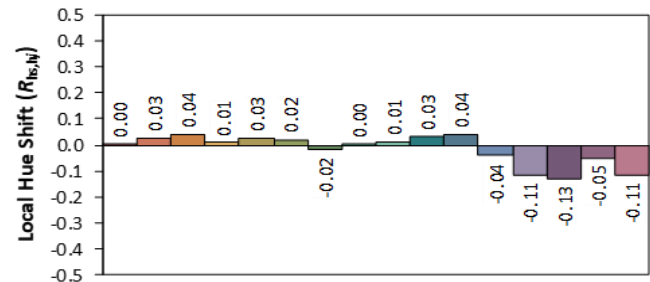
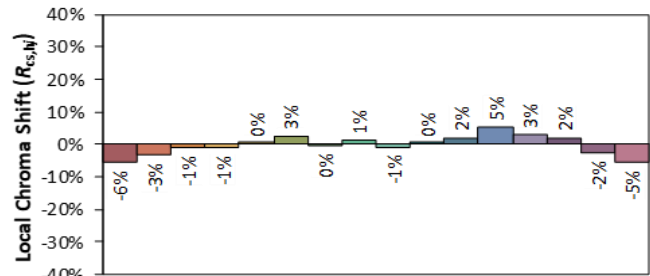
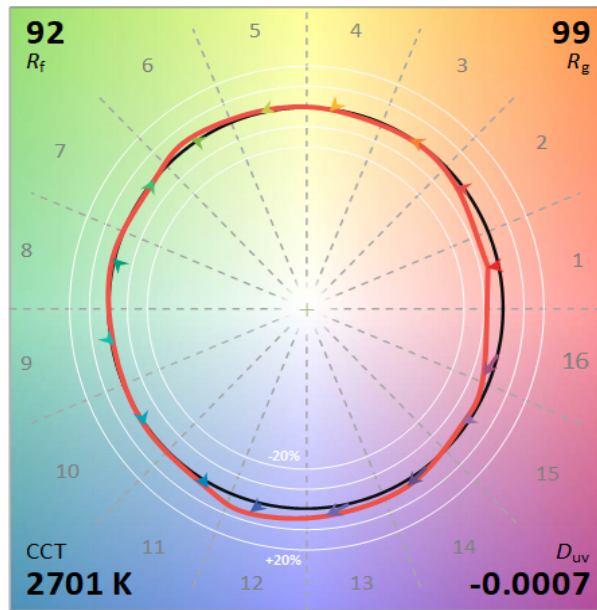
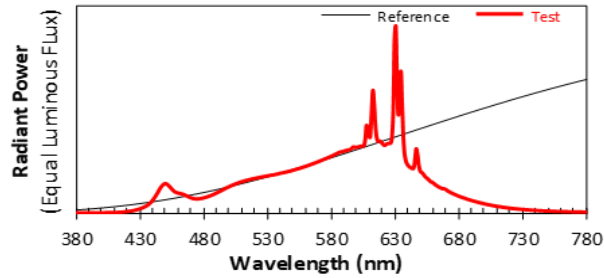
ANSI/IES TM-30-18 Color Rendition Report

Source: TGSM TW 2700K

Date: 01 Jun 2022

Manufacturer: Ledalite by Signify

Model: TruGroove Suspended Micro



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4585

y 0.4083

u' 0.2626

v' 0.5263

| SPECTRAL POWER DISTRIBUTION | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|
| λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD | λ (nm) | SPD |
| 380 | 0.00010 | 425 | 0.00130 | 470 | 0.00900 | 515 | 0.01930 | 560 | 0.02730 | 605 | 0.03930 | 650 | 0.02490 | 695 | 0.00640 | 740 | 0.00150 |
| 381 | 0.00000 | 426 | 0.00150 | 471 | 0.00870 | 516 | 0.01960 | 561 | 0.02760 | 606 | 0.03960 | 651 | 0.02390 | 696 | 0.00610 | 741 | 0.00140 |
| 382 | 0.00010 | 427 | 0.00160 | 472 | 0.00840 | 517 | 0.01970 | 562 | 0.02780 | 607 | 0.04290 | 652 | 0.02340 | 697 | 0.00600 | 742 | 0.00140 |
| 383 | 0.00010 | 428 | 0.00180 | 473 | 0.00830 | 518 | 0.01990 | 563 | 0.02800 | 608 | 0.05140 | 653 | 0.02240 | 698 | 0.00580 | 743 | 0.00130 |
| 384 | 0.00000 | 429 | 0.00210 | 474 | 0.00820 | 519 | 0.02010 | 564 | 0.02850 | 609 | 0.05070 | 654 | 0.02140 | 699 | 0.00560 | 744 | 0.00130 |
| 385 | 0.00010 | 430 | 0.00230 | 475 | 0.00810 | 520 | 0.02020 | 565 | 0.02860 | 610 | 0.04500 | 655 | 0.02070 | 700 | 0.00540 | 745 | 0.00120 |
| 386 | 0.00010 | 431 | 0.00250 | 476 | 0.00830 | 521 | 0.02040 | 566 | 0.02890 | 611 | 0.04460 | 656 | 0.02010 | 701 | 0.00530 | 746 | 0.00120 |
| 387 | 0.00010 | 432 | 0.00280 | 477 | 0.00830 | 522 | 0.02060 | 567 | 0.02930 | 612 | 0.05880 | 657 | 0.01940 | 702 | 0.00510 | 747 | 0.00120 |
| 388 | 0.00010 | 433 | 0.00320 | 478 | 0.00840 | 523 | 0.02070 | 568 | 0.02950 | 613 | 0.07210 | 658 | 0.01860 | 703 | 0.00490 | 748 | 0.00110 |
| 389 | 0.00010 | 434 | 0.00350 | 479 | 0.00850 | 524 | 0.02090 | 569 | 0.02980 | 614 | 0.06480 | 659 | 0.01820 | 704 | 0.00470 | 749 | 0.00110 |
| 390 | 0.00010 | 435 | 0.00390 | 480 | 0.00870 | 525 | 0.02100 | 570 | 0.03010 | 615 | 0.05190 | 660 | 0.01780 | 705 | 0.00460 | 750 | 0.00100 |
| 391 | 0.00010 | 436 | 0.00440 | 481 | 0.00900 | 526 | 0.02120 | 571 | 0.03040 | 616 | 0.04470 | 661 | 0.01730 | 706 | 0.00450 | 751 | 0.00110 |
| 392 | 0.00010 | 437 | 0.00490 | 482 | 0.00920 | 527 | 0.02130 | 572 | 0.03070 | 617 | 0.04230 | 662 | 0.01660 | 707 | 0.00430 | 752 | 0.00100 |
| 393 | 0.00010 | 438 | 0.00550 | 483 | 0.00940 | 528 | 0.02150 | 573 | 0.03100 | 618 | 0.04200 | 663 | 0.01610 | 708 | 0.00420 | 753 | 0.00100 |
| 394 | 0.00010 | 439 | 0.00620 | 484 | 0.00970 | 529 | 0.02150 | 574 | 0.03130 | 619 | 0.04220 | 664 | 0.01560 | 709 | 0.00410 | 754 | 0.00090 |
| 395 | 0.00010 | 440 | 0.00710 | 485 | 0.00990 | 530 | 0.02180 | 575 | 0.03160 | 620 | 0.04130 | 665 | 0.01510 | 710 | 0.00390 | 755 | 0.00090 |
| 396 | 0.00010 | 441 | 0.00810 | 486 | 0.01020 | 531 | 0.02180 | 576 | 0.03190 | 621 | 0.04050 | 666 | 0.01480 | 711 | 0.00380 | 756 | 0.00090 |
| 397 | 0.00010 | 442 | 0.00910 | 487 | 0.01050 | 532 | 0.02200 | 577 | 0.03220 | 622 | 0.03970 | 667 | 0.01450 | 712 | 0.00360 | 757 | 0.00080 |
| 398 | 0.00010 | 443 | 0.01030 | 488 | 0.01080 | 533 | 0.02210 | 578 | 0.03250 | 623 | 0.04010 | 668 | 0.01420 | 713 | 0.00360 | 758 | 0.00080 |
| 399 | 0.00010 | 444 | 0.01160 | 489 | 0.01120 | 534 | 0.02230 | 579 | 0.03290 | 624 | 0.04060 | 669 | 0.01420 | 714 | 0.00350 | 759 | 0.00080 |
| 400 | 0.00010 | 445 | 0.01290 | 490 | 0.01160 | 535 | 0.02230 | 580 | 0.03320 | 625 | 0.04080 | 670 | 0.01390 | 715 | 0.00330 | 760 | 0.00080 |
| 401 | 0.00010 | 446 | 0.01410 | 491 | 0.01190 | 536 | 0.02250 | 581 | 0.03360 | 626 | 0.04100 | 671 | 0.01340 | 716 | 0.00320 | 761 | 0.00080 |
| 402 | 0.00010 | 447 | 0.01530 | 492 | 0.01230 | 537 | 0.02280 | 582 | 0.03390 | 627 | 0.04110 | 672 | 0.01290 | 717 | 0.00310 | 762 | 0.00070 |
| 403 | 0.00010 | 448 | 0.01620 | 493 | 0.01270 | 538 | 0.02280 | 583 | 0.03430 | 628 | 0.04390 | 673 | 0.01240 | 718 | 0.00300 | 763 | 0.00070 |
| 404 | 0.00010 | 449 | 0.01690 | 494 | 0.01310 | 539 | 0.02300 | 584 | 0.03460 | 629 | 0.05940 | 674 | 0.01200 | 719 | 0.00290 | 764 | 0.00070 |
| 405 | 0.00010 | 450 | 0.01710 | 495 | 0.01340 | 540 | 0.02330 | 585 | 0.03500 | 630 | 0.10150 | 675 | 0.01160 | 720 | 0.00280 | 765 | 0.00070 |
| 406 | 0.00010 | 451 | 0.01710 | 496 | 0.01380 | 541 | 0.02340 | 586 | 0.03540 | 631 | 0.10990 | 676 | 0.01120 | 721 | 0.00280 | 766 | 0.00060 |
| 407 | 0.00010 | 452 | 0.01670 | 497 | 0.01420 | 542 | 0.02350 | 587 | 0.03570 | 632 | 0.08040 | 677 | 0.01090 | 722 | 0.00260 | 767 | 0.00060 |
| 408 | 0.00020 | 453 | 0.01600 | 498 | 0.01460 | 543 | 0.02370 | 588 | 0.03590 | 633 | 0.05780 | 678 | 0.01060 | 723 | 0.00260 | 768 | 0.00060 |
| 409 | 0.00020 | 454 | 0.01520 | 499 | 0.01500 | 544 | 0.02390 | 589 | 0.03610 | 634 | 0.07040 | 679 | 0.01030 | 724 | 0.00250 | 769 | 0.00060 |
| 410 | 0.00020 | 455 | 0.01430 | 500 | 0.01530 | 545 | 0.02400 | 590 | 0.03620 | 635 | 0.08360 | 680 | 0.01000 | 725 | 0.00240 | 770 | 0.00060 |
| 411 | 0.00020 | 456 | 0.01350 | 501 | 0.01570 | 546 | 0.02420 | 591 | 0.03650 | 636 | 0.06340 | 681 | 0.00970 | 726 | 0.00230 | 771 | 0.00060 |
| 412 | 0.00030 | 457 | 0.01280 | 502 | 0.01600 | 547 | 0.02440 | 592 | 0.03670 | 637 | 0.04380 | 682 | 0.00940 | 727 | 0.00220 | 772 | 0.00050 |
| 413 | 0.00030 | 458 | 0.01230 | 503 | 0.01630 | 548 | 0.02450 | 593 | 0.03690 | 638 | 0.03440 | 683 | 0.00910 | 728 | 0.00220 | 773 | 0.00050 |
| 414 | 0.00030 | 459 | 0.01200 | 504 | 0.01670 | 549 | 0.02480 | 594 | 0.03710 | 639 | 0.03050 | 684 | 0.00890 | 729 | 0.00210 | 774 | 0.00050 |
| 415 | 0.00040 | 460 | 0.01170 | 505 | 0.01690 | 550 | 0.02500 | 595 | 0.03720 | 640 | 0.02870 | 685 | 0.00860 | 730 | 0.00200 | 775 | 0.00050 |
| 416 | 0.00040 | 461 | 0.01150 | 506 | 0.01720 | 551 | 0.02530 | 596 | 0.03760 | 641 | 0.02770 | 686 | 0.00830 | 731 | 0.00200 | 776 | 0.00050 |
| 417 | 0.00050 | 462 | 0.01140 | 507 | 0.01750 | 552 | 0.02540 | 597 | 0.03850 | 642 | 0.02690 | 687 | 0.00810 | 732 | 0.00190 | 777 | 0.00050 |
| 418 | 0.00060 | 463 | 0.01120 | 508 | 0.01780 | 553 | 0.02570 | 598 | 0.03890 | 643 | 0.02650 | 688 | 0.00780 | 733 | 0.00180 | 778 | 0.00050 |
| 419 | 0.00060 | 464 | 0.01100 | 509 | 0.01810 | 554 | 0.02590 | 599 | 0.03860 | 644 | 0.02610 | 689 | 0.00760 | 734 | 0.00180 | 779 | 0.00050 |
| 420 | 0.00070 | 465 | 0.01070 | 510 | 0.01830 | 555 | 0.02610 | 600 | 0.03860 | 645 | 0.02610 | 690 | 0.00740 | 735 | 0.00170 | 780 | 0.00040 |
| 421 | 0.00080 | 466 | 0.01030 | 511 | 0.01850 | 556 | 0.02630 | 601 | 0.03870 | 646 | 0.03040 | 691 | 0.00710 | 736 | 0.00170 | | |
| 422 | 0.00090 | 467 | 0.00990 | 512 | 0.01870 | 557 | 0.02660 | 602 | 0.03890 | 647 | 0.03770 | 692 | 0.00690 | 737 | 0.00160 | | |
| 423 | 0.00100 | 468 | 0.00970 | 513 | 0.01900 | 558 | 0.02680 | 603 | 0.03910 | 648 | 0.03460 | 693 | 0.00670 | 738 | 0.00160 | | |
| 424 | 0.00120 | 469 | 0.00930 | 514 | 0.01920 | 559 | 0.02710 | 604 | 0.03940 | 649 | 0.02830 | 694 | 0.00650 | 739 | 0.00150 | | |

| UNIFIED GLARE RATING | | | | | | | | | | | |
|----------------------|----------------------|------|------|------|------|--------------------|------|------|------|------|------|
| Reflectances | | | | | | | | | | | |
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| Room Size | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | | |
| X=2H | Y=2H | 19.0 | 20.4 | 19.5 | 20.9 | 21.4 | 20.3 | 21.7 | 20.8 | 22.2 | 22.7 |
| | 3H | 20.3 | 21.5 | 20.8 | 22.1 | 22.6 | 22.3 | 23.6 | 22.8 | 24.1 | 24.6 |
| | 4H | 20.7 | 21.9 | 21.2 | 22.4 | 23.0 | 23.2 | 24.3 | 23.7 | 24.9 | 25.5 |
| | 6H | 20.9 | 22.0 | 21.4 | 22.5 | 23.1 | 23.9 | 25.1 | 24.5 | 25.6 | 26.2 |
| | 8H | 20.9 | 22.0 | 21.5 | 22.6 | 23.2 | 24.4 | 25.4 | 24.9 | 26.0 | 26.6 |
| | 12H | 20.9 | 22.0 | 21.5 | 22.5 | 23.2 | 24.8 | 25.8 | 25.3 | 26.3 | 27.0 |
| 4H | 2H | 19.7 | 20.9 | 20.3 | 21.4 | 22.0 | 20.7 | 21.9 | 21.3 | 22.5 | 23.0 |
| | 3H | 21.2 | 22.2 | 21.8 | 22.8 | 23.4 | 22.9 | 23.9 | 23.5 | 24.5 | 25.1 |
| | 4H | 21.7 | 22.6 | 22.3 | 23.2 | 23.9 | 23.9 | 24.8 | 24.5 | 25.4 | 26.0 |
| | 6H | 22.1 | 22.9 | 22.7 | 23.5 | 24.1 | 24.8 | 25.6 | 25.4 | 26.2 | 26.9 |
| | 8H | 22.1 | 22.9 | 22.7 | 23.5 | 24.2 | 25.3 | 26.1 | 25.9 | 26.7 | 27.3 |
| | 12H | 22.2 | 22.9 | 22.8 | 23.5 | 24.2 | 25.8 | 26.5 | 26.4 | 27.1 | 27.8 |
| 8H | 4H | 22.2 | 22.9 | 22.8 | 23.5 | 24.2 | 24.1 | 24.8 | 24.7 | 25.4 | 26.1 |
| | 6H | 22.7 | 23.3 | 23.3 | 24.0 | 24.6 | 25.2 | 25.8 | 25.8 | 26.4 | 27.1 |
| | 8H | 22.8 | 23.4 | 23.5 | 24.1 | 24.7 | 25.7 | 26.3 | 26.4 | 27.0 | 27.6 |
| | 12H | 22.9 | 23.5 | 23.6 | 24.1 | 24.8 | 26.4 | 26.9 | 27.0 | 27.5 | 28.3 |
| 12H | 4H | 22.3 | 22.9 | 22.9 | 23.6 | 24.2 | 24.1 | 24.8 | 24.7 | 25.4 | 26.1 |
| | 6H | 22.9 | 23.4 | 23.5 | 24.0 | 24.8 | 25.2 | 25.8 | 25.9 | 26.4 | 27.1 |
| | 8H | 23.1 | 23.6 | 23.7 | 24.2 | 25.0 | 25.8 | 26.3 | 26.5 | 27.0 | 27.7 |

The UGR values have been calculated according to CIE Publ. 117.

Spacing-to-Height-Ratio = 1.00.

The highlighted value refers to the UGR value which the luminaire would have in a reference situation with room dimensions of 4H/8H and degrees of reflectance of 20% for the floor, 50% for the walls and 70% for the ceiling, as recommended by DLC.

The UGR value may vary depending on application specific parameters.