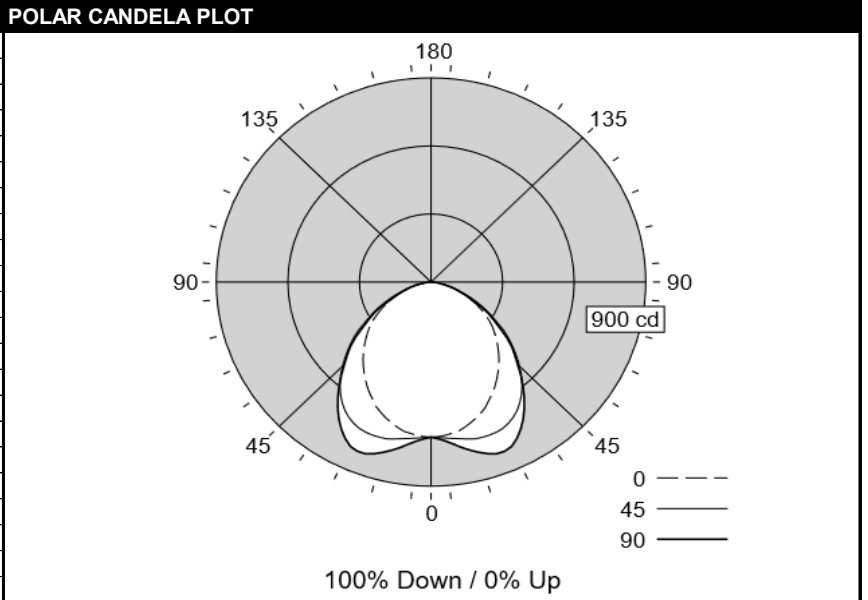


LEDALITE - TG SUSPENDED/SURFACE/WALL MICRO

| | | | |
|--------------------------------|--------------|--------------------------------------|------------------------|
| TEST DATE: | 10 Jun 2022 | CATALOG NO: | TMx1L9T2QNNNN20NNN-30 |
| Lamp Type: | LED | Description: | MESO 2000LM DOWN TW-30 |
| No. of Lamps: | 192 | | |
| Rated Lamp Lumens: | -1 | Flux (lm), Efficiency (%): | 1999 lm 100% |
| Input Watts: | 277 VAC 20.9 | Up/Dn Ratio, Efficacy (lm/W): | 100% Down / 0% Up 95.5 |
| CIE-IES Classification: | Direct | Report: | LNG08885 |

| CANDELA DISTRIBUTION | | | | | | Flux |
|----------------------|-----|------|-----|------|-----|--------|
| | 0 | 22.5 | 45 | 67.5 | 90 | Lumens |
| 0 | 684 | 684 | 684 | 684 | 684 | |
| 5 | 679 | 682 | 691 | 696 | 704 | 66 |
| 15 | 642 | 663 | 716 | 757 | 777 | 201 |
| 25 | 575 | 622 | 712 | 785 | 800 | 322 |
| 35 | 489 | 551 | 649 | 707 | 682 | 389 |
| 45 | 395 | 449 | 525 | 548 | 514 | 381 |
| 55 | 299 | 331 | 373 | 377 | 350 | 314 |
| 65 | 188 | 205 | 216 | 221 | 190 | 206 |
| 75 | 85 | 92 | 89 | 97 | 88 | 98 |
| 85 | 15 | 18 | 17 | 20 | 15 | 22 |
| 90 | 0 | 0 | 0 | 0 | 0 | |
| 95 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | |

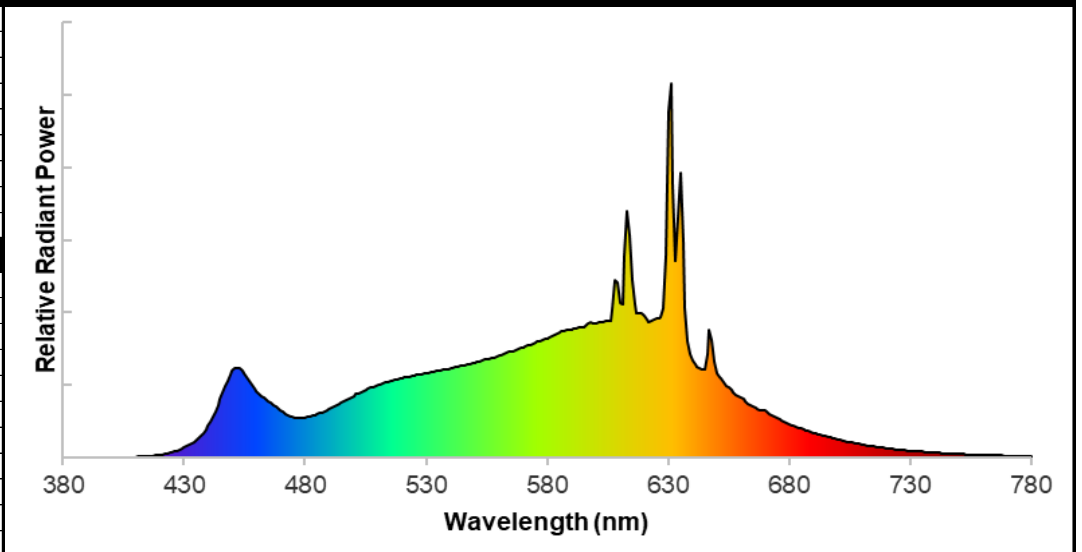


| CHARACTERISTICS | | | | | | COEFFICIENTS OF UTILIZATION (%) | | | | | | | | | | | |
|--|---|--------|--------|-------|---------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|
| RP1 | Meets RP-1-12 recommendations for VDT-Normal spaces | | | | | Pc--- | 80 | | | | 70 | | | 50 | | | 0 |
| Direct: Peak Candela & Angle (0°) | | | 684.1 | 0.0 | | Pw--- | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 50 | 30 | 10 | 0 |
| Direct: Peak Candela & Angle (90°) | | | 807.6 | 22.5 | | RCR | | | | | | | | | | | |
| Spacing Criteria (0°, 90°, 180°) | | 1.17 | 1.48 | N/A | 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | | 100 |
| Beam (H, V), Field (H, V) | | 103.6 | 93.1 | 151.9 | 150.4 | 1 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 99 | 96 | 93 | 85 |
| Indirect: Peak Candela & Angle(°) | | | N/A | N/A | 2 | 100 | 92 | 86 | 81 | 98 | 91 | 85 | 87 | 82 | 78 | 72 | |
| Indirect: Zenith Candela, Peak to Zenith | | | N/A | N/A | 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 77 | 71 | 66 | 61 | |
| Luminous Width, Length, Height (ft) | | 0.15 | 4.00 | 0.00 | 4 | 84 | 73 | 64 | 58 | 82 | 71 | 63 | 69 | 62 | 56 | 53 | |
| DLC, UGR (4H x 8H, 1.0H), MDER | | N/A | 23.3 | 0.526 | 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 62 | 55 | 49 | 46 | |
| x, y, CCT, D _{uv} | | 0.4330 | 0.3946 | 2988 | -0.0033 | 6 | 72 | 59 | 50 | 44 | 70 | 58 | 49 | 56 | 49 | 43 | 40 |
| CRI (R _a), R _g , G _a , C _g | | 94 | 63 | 100 | 94 | 7 | 66 | 53 | 45 | 39 | 65 | 52 | 44 | 51 | 44 | 38 | 36 |
| TM-30-18 R _f , R _h , R _a , R _g , R _h , R _a | | 92 | 91 | 100 | -5% | 8 | 62 | 49 | 40 | 34 | 60 | 48 | 40 | 47 | 39 | 34 | 32 |
| 120V: P(W), I(A), THD(%), PF | | 20.6 | 0.175 | 11.8 | 0.981 | 9 | 58 | 45 | 36 | 31 | 56 | 44 | 36 | 43 | 36 | 31 | 29 |
| 277V: P(W), I(A), THD(%), PF | | 20.9 | 0.089 | 16.1 | 0.847 | 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 40 | 33 | 28 | 26 |
| *Based on a floor reflectance of 0.2 | | | | | | | | | | | | | | | | | |

| ZONAL LUMENS (lm) | | | |
|-------------------|--------|----------|--------|
| Zone | Lumens | %Fixture | %Lamp |
| 0-30 | 590 | 29.5% | 29.5% |
| 0-40 | 979 | 49.0% | 49.0% |
| 0-60 | 1673 | 83.7% | 83.7% |
| 0-90 | 1999 | 100.0% | 100.0% |
| 90-130 | 0 | 0.0% | 0.0% |
| 90-150 | 0 | 0.0% | 0.0% |
| 90-180 | 0 | 0.0% | 0.0% |
| 0-180 | 1999 | 100.0% | 100.0% |

SPECTRAL POWER DISTRIBUTION

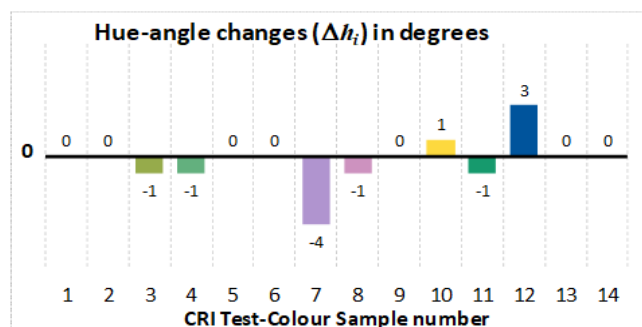
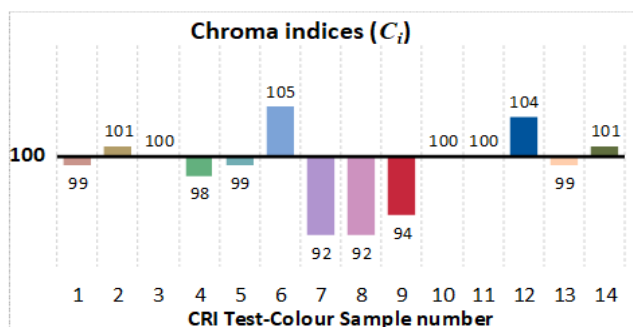
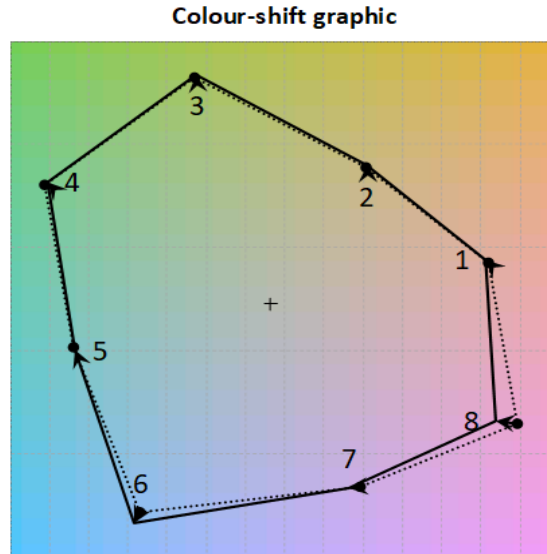
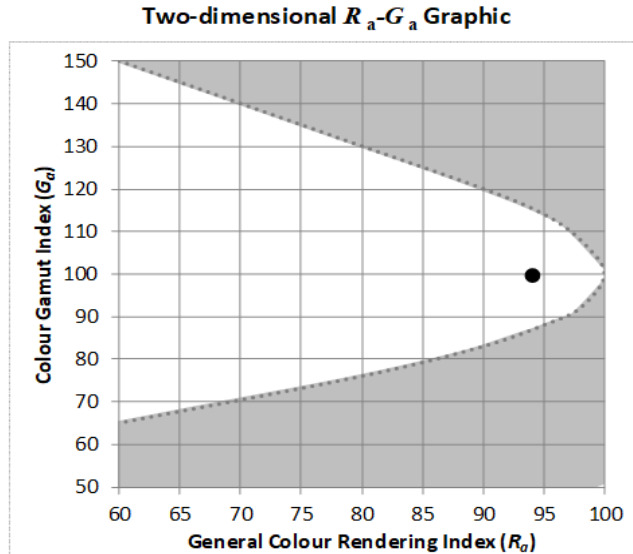
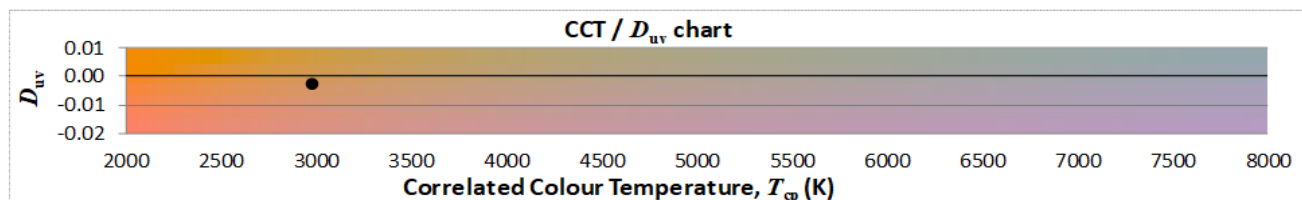
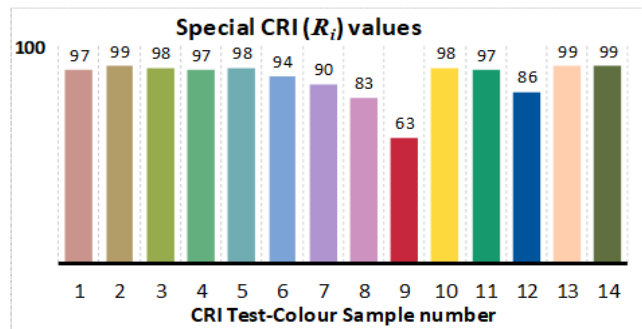
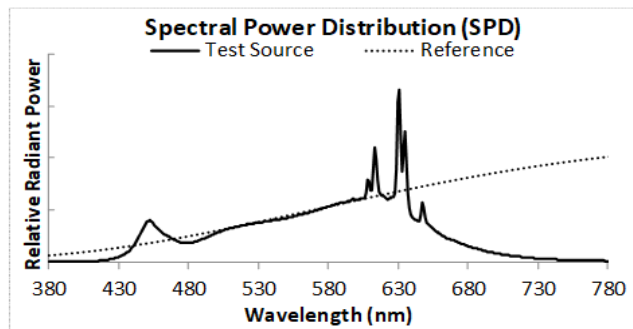
| AVG LUMINANCE (cd/m ²) | | | |
|------------------------------------|-------|-------|-------|
| | 0 | 45 | 90 |
| 0 | 12268 | 12268 | 12268 |
| 5 | 12216 | 12432 | 12677 |
| 15 | 11921 | 13291 | 14433 |
| 25 | 11374 | 14085 | 15822 |
| 35 | 10708 | 14215 | 14920 |
| 45 | 10010 | 13322 | 13031 |
| 55 | 9348 | 11662 | 10949 |
| 65 | 7986 | 9170 | 8067 |
| 75 | 5897 | 6194 | 6070 |
| 85 | 3066 | 3416 | 3066 |



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

| | | | |
|--------------|---------------|---------------|---------------------------|
| Test Number: | TGSM TW 3000K | Manufacturer: | Ledalite by Signify |
| Date: | 1 Jun 2022 | Model: | TruGroove Suspended Micro |

| | | | |
|---|---------|---------------------------------------|--------|
| Correlated Colour Temperature (T_{cp}) in K | 2988 | CIE1931 chromaticity coordinate, x | 0.4330 |
| Distance to Blackbody Locus (D_{uv}) | -0.0033 | CIE1931 chromaticity coordinate, y | 0.3946 |
| General Colour Rendering Index (R_a) | 94 | CIE1976 chromaticity coordinate, u' | 0.2522 |
| Red Rendering Index (R_9) | 63 | CIE1976 chromaticity coordinate, v' | 0.5170 |
| Colour Gamut Index (G_a) | 100 | | |
| Red Chroma Index (C_9) | 94 | | |



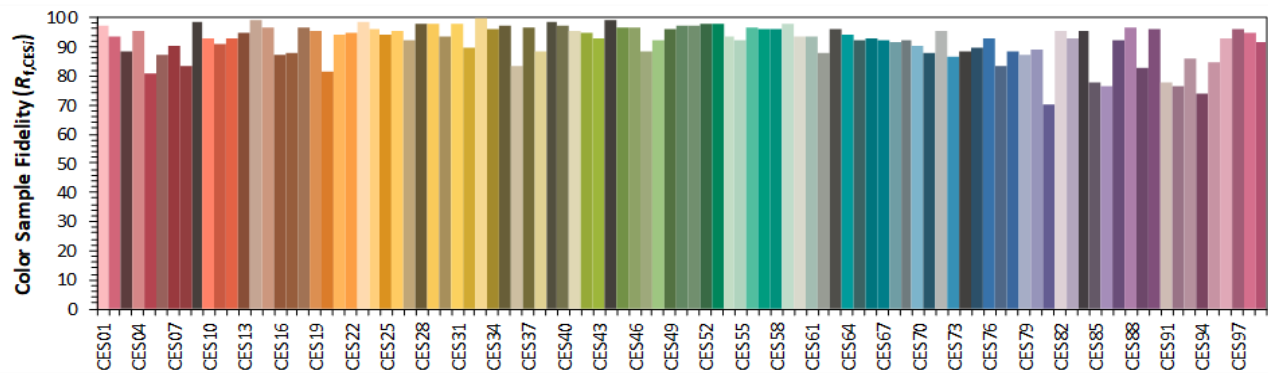
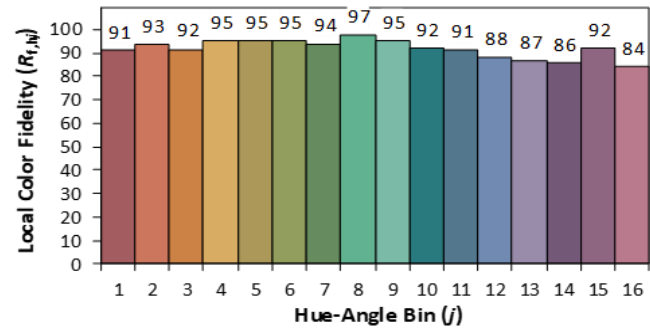
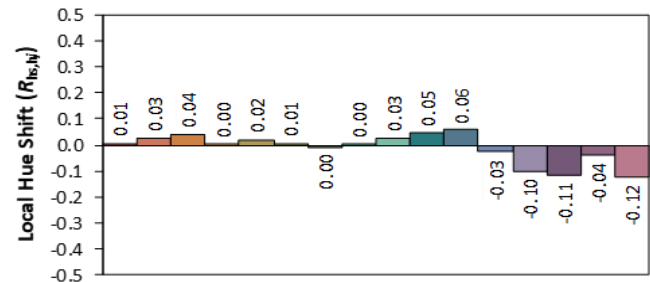
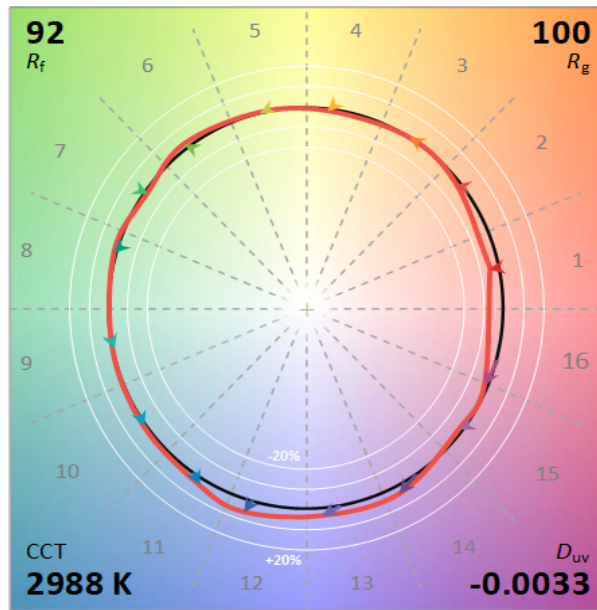
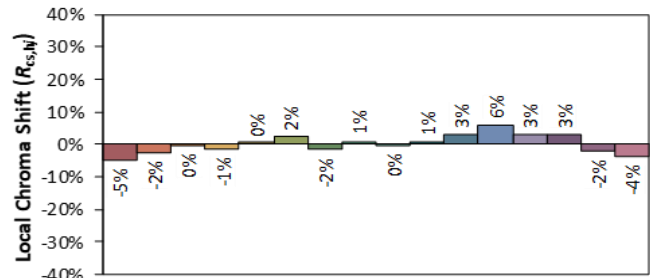
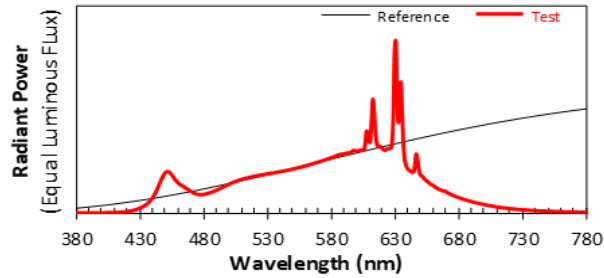
ANSI/IES TM-30-18 Color Rendition Report

Source: TGSM TW 3000K

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 0.4330

y 0.3946

u' 0.2522

v' 0.5170

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 | 0.00150 | 470 | 0.01310 | 515 | 0.02100 | 560 | 0.02810 | 605 | 0.03760 | 650 | 0.02320 | 695 | 0.00590 | 740 | 0.00140 |
| 381 | 0.00000 | 426 | 0.00170 | 471 | 0.01260 | 516 | 0.02130 | 561 | 0.02830 | 606 | 0.03780 | 651 | 0.02230 | 696 | 0.00570 | 741 | 0.00130 |
| 382 | 0.00010 | 427 | 0.00190 | 472 | 0.01210 | 517 | 0.02140 | 562 | 0.02850 | 607 | 0.04090 | 652 | 0.02180 | 697 | 0.00550 | 742 | 0.00130 |
| 383 | 0.00010 | 428 | 0.00210 | 473 | 0.01180 | 518 | 0.02160 | 563 | 0.02870 | 608 | 0.04890 | 653 | 0.02090 | 698 | 0.00540 | 743 | 0.00120 |
| 384 | 0.00000 | 429 | 0.00240 | 474 | 0.01150 | 519 | 0.02180 | 564 | 0.02910 | 609 | 0.04810 | 654 | 0.01990 | 699 | 0.00520 | 744 | 0.00120 |
| 385 | 0.00010 | 430 | 0.00270 | 475 | 0.01120 | 520 | 0.02190 | 565 | 0.02920 | 610 | 0.04270 | 655 | 0.01930 | 700 | 0.00500 | 745 | 0.00120 |
| 386 | 0.00010 | 431 | 0.00300 | 476 | 0.01110 | 521 | 0.02210 | 566 | 0.02940 | 611 | 0.04230 | 656 | 0.01880 | 701 | 0.00490 | 746 | 0.00110 |
| 387 | 0.00010 | 432 | 0.00340 | 477 | 0.01090 | 522 | 0.02220 | 567 | 0.02970 | 612 | 0.05570 | 657 | 0.01800 | 702 | 0.00470 | 747 | 0.00110 |
| 388 | 0.00010 | 433 | 0.00380 | 478 | 0.01090 | 523 | 0.02230 | 568 | 0.02990 | 613 | 0.06810 | 658 | 0.01730 | 703 | 0.00450 | 748 | 0.00110 |
| 389 | 0.00010 | 434 | 0.00420 | 479 | 0.01090 | 524 | 0.02250 | 569 | 0.03020 | 614 | 0.06120 | 659 | 0.01690 | 704 | 0.00440 | 749 | 0.00100 |
| 390 | 0.00010 | 435 | 0.00470 | 480 | 0.01100 | 525 | 0.02270 | 570 | 0.03040 | 615 | 0.04900 | 660 | 0.01660 | 705 | 0.00430 | 750 | 0.00100 |
| 391 | 0.00010 | 436 | 0.00540 | 481 | 0.01120 | 526 | 0.02280 | 571 | 0.03070 | 616 | 0.04230 | 661 | 0.01610 | 706 | 0.00410 | 751 | 0.00100 |
| 392 | 0.00010 | 437 | 0.00600 | 482 | 0.01130 | 527 | 0.02290 | 572 | 0.03090 | 617 | 0.03990 | 662 | 0.01540 | 707 | 0.00400 | 752 | 0.00090 |
| 393 | 0.00010 | 438 | 0.00680 | 483 | 0.01150 | 528 | 0.02310 | 573 | 0.03110 | 618 | 0.03960 | 663 | 0.01500 | 708 | 0.00390 | 753 | 0.00090 |
| 394 | 0.00010 | 439 | 0.00770 | 484 | 0.01180 | 529 | 0.02310 | 574 | 0.03140 | 619 | 0.03980 | 664 | 0.01450 | 709 | 0.00380 | 754 | 0.00090 |
| 395 | 0.00010 | 440 | 0.00870 | 485 | 0.01200 | 530 | 0.02340 | 575 | 0.03160 | 620 | 0.03890 | 665 | 0.01410 | 710 | 0.00360 | 755 | 0.00080 |
| 396 | 0.00010 | 441 | 0.01000 | 486 | 0.01230 | 531 | 0.02340 | 576 | 0.03190 | 621 | 0.03820 | 666 | 0.01380 | 711 | 0.00350 | 756 | 0.00080 |
| 397 | 0.00010 | 442 | 0.01120 | 487 | 0.01250 | 532 | 0.02360 | 577 | 0.03210 | 622 | 0.03740 | 667 | 0.01350 | 712 | 0.00340 | 757 | 0.00080 |
| 398 | 0.00010 | 443 | 0.01270 | 488 | 0.01280 | 533 | 0.02370 | 578 | 0.03240 | 623 | 0.03770 | 668 | 0.01320 | 713 | 0.00330 | 758 | 0.00080 |
| 399 | 0.00010 | 444 | 0.01430 | 489 | 0.01310 | 534 | 0.02380 | 579 | 0.03260 | 624 | 0.03820 | 669 | 0.01320 | 714 | 0.00320 | 759 | 0.00080 |
| 400 | 0.00010 | 445 | 0.01610 | 490 | 0.01350 | 535 | 0.02390 | 580 | 0.03290 | 625 | 0.03840 | 670 | 0.01290 | 715 | 0.00310 | 760 | 0.00070 |
| 401 | 0.00010 | 446 | 0.01780 | 491 | 0.01380 | 536 | 0.02400 | 581 | 0.03320 | 626 | 0.03850 | 671 | 0.01240 | 716 | 0.00300 | 761 | 0.00070 |
| 402 | 0.00010 | 447 | 0.01970 | 492 | 0.01410 | 537 | 0.02420 | 582 | 0.03350 | 627 | 0.03860 | 672 | 0.01190 | 717 | 0.00290 | 762 | 0.00070 |
| 403 | 0.00010 | 448 | 0.02130 | 493 | 0.01450 | 538 | 0.02430 | 583 | 0.03380 | 628 | 0.04120 | 673 | 0.01150 | 718 | 0.00280 | 763 | 0.00070 |
| 404 | 0.00010 | 449 | 0.02280 | 494 | 0.01490 | 539 | 0.02450 | 584 | 0.03400 | 629 | 0.05580 | 674 | 0.01120 | 719 | 0.00270 | 764 | 0.00060 |
| 405 | 0.00010 | 450 | 0.02380 | 495 | 0.01520 | 540 | 0.02470 | 585 | 0.03430 | 630 | 0.09540 | 675 | 0.01080 | 720 | 0.00260 | 765 | 0.00060 |
| 406 | 0.00010 | 451 | 0.02450 | 496 | 0.01560 | 541 | 0.02480 | 586 | 0.03470 | 631 | 0.10310 | 676 | 0.01040 | 721 | 0.00260 | 766 | 0.00060 |
| 407 | 0.00020 | 452 | 0.02480 | 497 | 0.01600 | 542 | 0.02490 | 587 | 0.03490 | 632 | 0.07530 | 677 | 0.01010 | 722 | 0.00250 | 767 | 0.00060 |
| 408 | 0.00020 | 453 | 0.02460 | 498 | 0.01640 | 543 | 0.02500 | 588 | 0.03500 | 633 | 0.05420 | 678 | 0.00980 | 723 | 0.00240 | 768 | 0.00060 |
| 409 | 0.00020 | 454 | 0.02400 | 499 | 0.01670 | 544 | 0.02520 | 589 | 0.03520 | 634 | 0.06600 | 679 | 0.00950 | 724 | 0.00230 | 769 | 0.00060 |
| 410 | 0.00020 | 455 | 0.02320 | 500 | 0.01710 | 545 | 0.02530 | 590 | 0.03530 | 635 | 0.07830 | 680 | 0.00930 | 725 | 0.00220 | 770 | 0.00050 |
| 411 | 0.00020 | 456 | 0.02210 | 501 | 0.01750 | 546 | 0.02550 | 591 | 0.03550 | 636 | 0.05940 | 681 | 0.00900 | 726 | 0.00220 | 771 | 0.00050 |
| 412 | 0.00030 | 457 | 0.02100 | 502 | 0.01780 | 547 | 0.02570 | 592 | 0.03570 | 637 | 0.04100 | 682 | 0.00870 | 727 | 0.00210 | 772 | 0.00050 |
| 413 | 0.00030 | 458 | 0.01990 | 503 | 0.01810 | 548 | 0.02580 | 593 | 0.03580 | 638 | 0.03210 | 683 | 0.00850 | 728 | 0.00200 | 773 | 0.00050 |
| 414 | 0.00030 | 459 | 0.01910 | 504 | 0.01850 | 549 | 0.02600 | 594 | 0.03590 | 639 | 0.02850 | 684 | 0.00820 | 729 | 0.00190 | 774 | 0.00050 |
| 415 | 0.00040 | 460 | 0.01830 | 505 | 0.01870 | 550 | 0.02620 | 595 | 0.03600 | 640 | 0.02680 | 685 | 0.00800 | 730 | 0.00190 | 775 | 0.00050 |
| 416 | 0.00050 | 461 | 0.01750 | 506 | 0.01900 | 551 | 0.02640 | 596 | 0.03630 | 641 | 0.02590 | 686 | 0.00770 | 731 | 0.00180 | 776 | 0.00050 |
| 417 | 0.00050 | 462 | 0.01700 | 507 | 0.01930 | 552 | 0.02660 | 597 | 0.03710 | 642 | 0.02520 | 687 | 0.00750 | 732 | 0.00180 | 777 | 0.00040 |
| 418 | 0.00060 | 463 | 0.01650 | 508 | 0.01950 | 553 | 0.02680 | 598 | 0.03750 | 643 | 0.02480 | 688 | 0.00730 | 733 | 0.00170 | 778 | 0.00040 |
| 419 | 0.00070 | 464 | 0.01600 | 509 | 0.01980 | 554 | 0.02690 | 599 | 0.03710 | 644 | 0.02440 | 689 | 0.00710 | 734 | 0.00170 | 779 | 0.00040 |
| 420 | 0.00080 | 465 | 0.01550 | 510 | 0.02000 | 555 | 0.02710 | 600 | 0.03710 | 645 | 0.02440 | 690 | 0.00690 | 735 | 0.00160 | 780 | 0.00040 |
| 421 | 0.00090 | 466 | 0.01500 | 511 | 0.02020 | 556 | 0.02730 | 601 | 0.03720 | 646 | 0.02840 | 691 | 0.00660 | 736 | 0.00160 | | |
| 422 | 0.00100 | 467 | 0.01450 | 512 | 0.02050 | 557 | 0.02750 | 602 | 0.03730 | 647 | 0.03520 | 692 | 0.00640 | 737 | 0.00150 | | |
| 423 | 0.00120 | 468 | 0.01410 | 513 | 0.02070 | 558 | 0.02760 | 603 | 0.03750 | 648 | 0.03230 | 693 | 0.00620 | 738 | 0.00150 | | |
| 424 | 0.00130 | 469 | 0.01360 | 514 | 0.02090 | 559 | 0.02800 | 604 | 0.03760 | 649 | 0.02640 | 694 | 0.00610 | 739 | 0.00140 | | |

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 | 19.8 | 21.4 | 20.1 | 21.7 | 22.0 | 20.6 | 22.1 | 20.9 | 22.5 | 22.8 |
| | 3H | 21.2 | 22.6 | 21.5 | 22.9 | 23.3 | 21.7 | 23.1 | 22.1 | 23.5 | 23.8 |
| | 4H | 21.6 | 22.9 | 22.0 | 23.3 | 23.6 | 22.1 | 23.4 | 22.5 | 23.8 | 24.2 |
| | 6H | 21.8 | 23.1 | 22.3 | 23.4 | 23.8 | 22.3 | 23.6 | 22.7 | 23.9 | 24.3 |
| | 8H | 21.9 | 23.1 | 22.3 | 23.5 | 23.9 | 22.4 | 23.6 | 22.8 | 23.9 | 24.3 |
| | 12H | 21.9 | 23.1 | 22.4 | 23.4 | 23.9 | 22.4 | 23.5 | 22.8 | 23.9 | 24.3 |
| 4H | 2H | 20.4 | 21.7 | 20.8 | 22.1 | 22.5 | 21.0 | 22.4 | 21.4 | 22.7 | 23.1 |
| | 3H | 22.0 | 23.1 | 22.4 | 23.5 | 23.9 | 22.4 | 23.5 | 22.8 | 23.9 | 24.3 |
| | 4H | 22.5 | 23.5 | 22.9 | 23.9 | 24.4 | 22.9 | 23.9 | 23.3 | 24.3 | 24.8 |
| | 6H | 22.9 | 23.7 | 23.3 | 24.2 | 24.6 | 23.2 | 24.1 | 23.7 | 24.6 | 25.0 |
| | 8H | 23.0 | 23.8 | 23.4 | 24.2 | 24.7 | 23.3 | 24.1 | 23.8 | 24.6 | 25.0 |
| | 12H | 23.0 | 23.7 | 23.5 | 24.2 | 24.7 | 23.4 | 24.1 | 23.8 | 24.6 | 25.0 |
| 8H | 4H | 22.7 | 23.5 | 23.2 | 24.0 | 24.4 | 23.1 | 23.9 | 23.5 | 24.3 | 24.8 |
| | 6H | 23.2 | 23.8 | 23.7 | 24.3 | 24.8 | 23.5 | 24.2 | 24.0 | 24.7 | 25.1 |
| | 8H | 23.3 | 23.9 | 23.8 | 24.4 | 24.9 | 23.6 | 24.2 | 24.1 | 24.7 | 25.2 |
| | 12H | 23.4 | 23.9 | 23.9 | 24.4 | 25.0 | 23.7 | 24.2 | 24.2 | 24.7 | 25.3 |
| 12H | 4H | 22.7 | 23.4 | 23.2 | 23.9 | 24.4 | 23.1 | 23.8 | 23.6 | 24.3 | 24.8 |
| | 6H | 23.2 | 23.8 | 23.7 | 24.3 | 24.8 | 23.5 | 24.1 | 24.0 | 24.6 | 25.1 |
| | 8H | 23.4 | 23.9 | 23.9 | 24.4 | 24.9 | 23.7 | 24.2 | 24.2 | 24.7 | 25.2 |

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.