

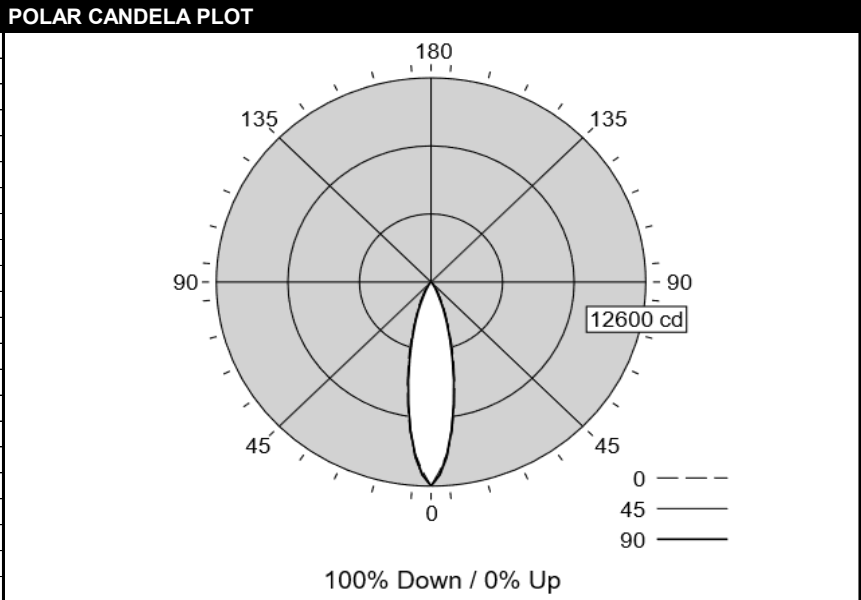
LEDALITE - TG RECESSED MICRO



by @ignify

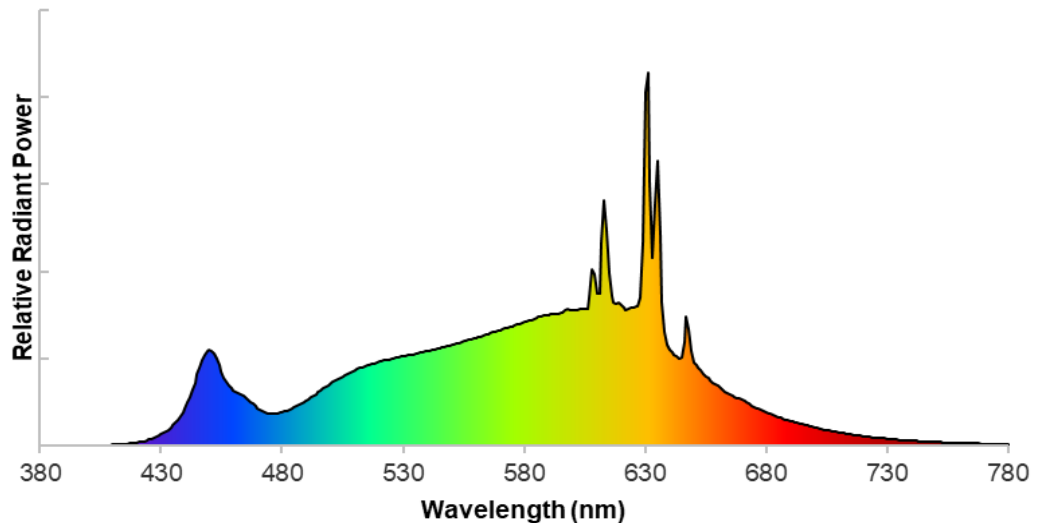
| | | | |
|--------------------------------|--------------|--------------------------------------|-----------------------------|
| TEST DATE: | 05 Feb 2022 | CATALOG NO: | 2301L930NRBFF40xx |
| Lamp Type: | LED | Description: | BLK NRW LVR 4000LM DOWN 930 |
| No. of Lamps: | 96 | | |
| Rated Lamp Lumens: | -1 | Flux (lm), Efficiency (%): | 3574 lm 100% |
| Input Watts: | 120 VAC 30.9 | Up/Dn Ratio, Efficacy (lm/W): | 100% Down / 0% Up 115.7 |
| CIE-IES Classification: | Direct | Report: | LNG08389 |

| CANDELA DISTRIBUTION | | | | | | Flux |
|----------------------|-------|-------|-------|-------|-------|--------|
| | 0 | 22.5 | 45 | 67.5 | 90 | Lumens |
| 0 | 12593 | 12593 | 12593 | 12593 | 12593 | |
| 5 | 10666 | 11308 | 10854 | 11247 | 10700 | 955 |
| 15 | 5140 | 5395 | 4872 | 5432 | 4827 | 1432 |
| 25 | 1761 | 1833 | 1618 | 1643 | 1388 | 789 |
| 35 | 511 | 561 | 449 | 339 | 288 | 287 |
| 45 | 115 | 115 | 94 | 99 | 88 | 84 |
| 55 | 28 | 33 | 25 | 15 | 7 | 22 |
| 65 | 2 | 3 | 2 | 2 | 1 | 3 |
| 75 | 1 | 1 | 0 | 1 | 0 | 1 |
| 85 | 0 | 1 | 0 | 1 | 0 | 1 |
| 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-Critical spaces | | | | | Pc--- | 80 | | | | 70 | | | 50 | | | 0 |
| Direct: Peak Candela & Angle (0°) | 12593.0 | | 0.0 | | | Pw--- | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 50 | 30 | 10 | 0 |
| Direct: Peak Candela & Angle (90°) | 12593.0 | | 0.0 | | | RCR | | | | | | | | | | | |
| Spacing Criteria (0°, 90°, 180°) | 0.42 | 0.41 | N/A | | | 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 111 | 111 | 111 | 100 |
| Beam (H, V), Field (H, V) | 24.7 | 25.4 | 51.4 | 56.0 | | 1 | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 105 | 103 | 96 |
| Indirect: Peak Candela & Angle(°) | N/A | | N/A | | | 2 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 101 | 99 | 97 | 91 |
| Indirect: Zenith Candela, Peak to Zenith | N/A | | N/A | | | 3 | 106 | 101 | 97 | 94 | 104 | 100 | 96 | 97 | 94 | 92 | 87 |
| Luminous Width, Length, Height (ft) | 0.13 | 4.00 | 0.00 | | | 4 | 102 | 96 | 92 | 88 | 101 | 95 | 91 | 93 | 90 | 87 | 84 |
| DLC, UGR (4H x 8H, 1.0H), MDER | N/A | | 4.5 | 0.505 | | 5 | 99 | 92 | 87 | 84 | 97 | 91 | 87 | 89 | 86 | 83 | 80 |
| x, y, CCT, D _{uv} | 0.4325 | 0.4005 | 3047 | -0.0008 | | 6 | 95 | 88 | 83 | 80 | 94 | 87 | 83 | 86 | 82 | 79 | 77 |
| CRI (R _a), R _g , G _a , C _g | 93 | 57 | 99 | 93 | | 7 | 92 | 85 | 80 | 76 | 91 | 84 | 79 | 83 | 79 | 76 | 74 |
| TM-30-18 R _f , R _h , R _a , R _g , R _h , R _a | 91 | 90 | 100 | -5% | | 8 | 89 | 81 | 77 | 73 | 88 | 81 | 76 | 80 | 76 | 73 | 71 |
| 120V: P(W), I(A), THD(%), PF | 30.9 | 0.259 | 8.6 | 0.995 | | 9 | 86 | 78 | 74 | 71 | 85 | 78 | 73 | 77 | 73 | 70 | 69 |
| 277V: P(W), I(A), THD(%), PF | 30.9 | 0.116 | 14.0 | 0.959 | | 10 | 83 | 76 | 71 | 68 | 82 | 75 | 71 | 74 | 70 | 68 | 66 |
| 347V: P(W), I(A), THD(%), PF | 30.1 | 0.089 | 7.6 | 0.971 | | *Based on a floor reflectance of 0.2 | | | | | | | | | | | |

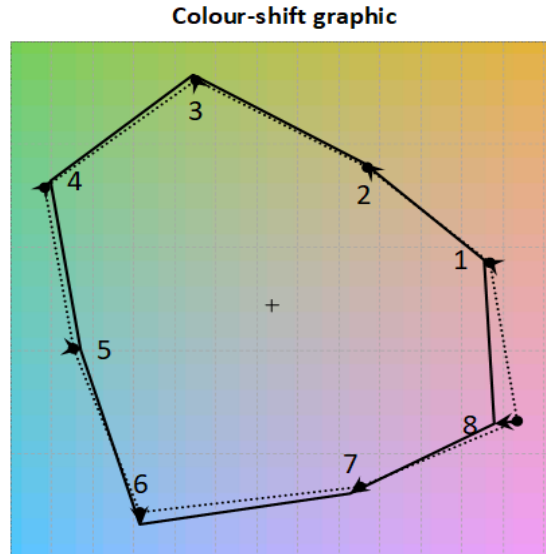
| ZONAL LUMENS (lm) | | | | SPECTRAL POWER DISTRIBUTION | | | | | | | | | | | |
|------------------------------------|--------|----------|--------|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Zone | Lumens | %Fixture | %Lamp | | | | | | | | | | | | |
| 0-30 | 3176 | 88.9% | 88.9% | | | | | | | | | | | | |
| 0-40 | 3463 | 96.9% | 96.9% | | | | | | | | | | | | |
| 0-60 | 3569 | 99.9% | 99.9% | | | | | | | | | | | | |
| 0-90 | 3574 | 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 | 3574 | 100.0% | 100.0% | | | | | | | | | | | | |
| AVG LUMINANCE (cd/m ²) | | | | | | | | | | | | | | | |
| 0 | 260578 | 260578 | 260578 | | | | | | | | | | | | |
| 5 | 221541 | 225448 | 222247 | | | | | | | | | | | | |
| 15 | 110104 | 104374 | 103407 | | | | | | | | | | | | |
| 25 | 40204 | 36939 | 31685 | | | | | | | | | | | | |
| 35 | 12901 | 11340 | 7285 | | | | | | | | | | | | |
| 45 | 3354 | 2760 | 2563 | | | | | | | | | | | | |
| 55 | 999 | 902 | 245 | | | | | | | | | | | | |
| 65 | 118 | 118 | 29 | | | | | | | | | | | | |
| 75 | 48 | 16 | 0 | | | | | | | | | | | | |
| 85 | 71 | 71 | 0 | | | | | | | | | | | | |



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

| | | | |
|--------------|-------------|---------------|---------------------|
| Test Number: | T20201106 | Manufacturer: | Ledalite by Signify |
| Date: | 27 Aug 2020 | Model: | TruGroove Suspended |

| | | | |
|---|---------|---------------------------------------|--------|
| Correlated Colour Temperature (T_{cp}) in K | 3047 | CIE1931 chromaticity coordinate, x | 0.4325 |
| Distance to Blackbody Locus (D_{uv}) | -0.0008 | CIE1931 chromaticity coordinate, y | 0.4005 |
| General Colour Rendering Index (R_a) | 93 | CIE1976 chromaticity coordinate, u' | 0.2492 |
| Red Rendering Index (R_9) | 57 | CIE1976 chromaticity coordinate, v' | 0.5193 |
| Colour Gamut Index (G_a) | 99 | | |
| Red Chroma Index (C_9) | 93 | | |



ANSI/IES TM-30-18 Color Rendition Report

Source: T20201106

Date: 27 Aug 2020

Manufacturer: Ledalite by Signify

Model: TruGroove Suspended



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

x 0.4325

y 0.4005

u' 0.2492

v' 0.5193

| 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 | 0.00340 | 470 | 0.02160 | 515 | 0.04600 | 560 | 0.06190 | 605 | 0.07820 | 650 | 0.04760 | 695 | 0.01220 | 740 | 0.00290 |
| 381 | 0.00020 | 426 | 0.00390 | 471 | 0.02070 | 516 | 0.04650 | 561 | 0.06220 | 606 | 0.07860 | 651 | 0.04590 | 696 | 0.01180 | 741 | 0.00280 |
| 382 | 0.00010 | 427 | 0.00440 | 472 | 0.01970 | 517 | 0.04680 | 562 | 0.06270 | 607 | 0.08480 | 652 | 0.04510 | 697 | 0.01150 | 742 | 0.00270 |
| 383 | 0.00010 | 428 | 0.00500 | 473 | 0.01920 | 518 | 0.04730 | 563 | 0.06320 | 608 | 0.10100 | 653 | 0.04310 | 698 | 0.01110 | 743 | 0.00260 |
| 384 | 0.00010 | 429 | 0.00570 | 474 | 0.01870 | 519 | 0.04770 | 564 | 0.06350 | 609 | 0.09830 | 654 | 0.04120 | 699 | 0.01070 | 744 | 0.00250 |
| 385 | 0.00010 | 430 | 0.00640 | 475 | 0.01840 | 520 | 0.04820 | 565 | 0.06400 | 610 | 0.08750 | 655 | 0.03990 | 700 | 0.01040 | 745 | 0.00250 |
| 386 | 0.00010 | 431 | 0.00720 | 476 | 0.01840 | 521 | 0.04850 | 566 | 0.06440 | 611 | 0.08720 | 656 | 0.03890 | 701 | 0.01010 | 746 | 0.00240 |
| 387 | 0.00010 | 432 | 0.00820 | 477 | 0.01850 | 522 | 0.04890 | 567 | 0.06490 | 612 | 0.11660 | 657 | 0.03730 | 702 | 0.00980 | 747 | 0.00230 |
| 388 | 0.00010 | 433 | 0.00910 | 478 | 0.01870 | 523 | 0.04900 | 568 | 0.06550 | 613 | 0.14100 | 658 | 0.03590 | 703 | 0.00940 | 748 | 0.00220 |
| 389 | 0.00000 | 434 | 0.01040 | 479 | 0.01890 | 524 | 0.04950 | 569 | 0.06580 | 614 | 0.12350 | 659 | 0.03510 | 704 | 0.00920 | 749 | 0.00220 |
| 390 | 0.00010 | 435 | 0.01160 | 480 | 0.01930 | 525 | 0.04980 | 570 | 0.06640 | 615 | 0.09880 | 660 | 0.03430 | 705 | 0.00890 | 750 | 0.00210 |
| 391 | 0.00010 | 436 | 0.01310 | 481 | 0.01970 | 526 | 0.05010 | 571 | 0.06670 | 616 | 0.08610 | 661 | 0.03330 | 706 | 0.00860 | 751 | 0.00200 |
| 392 | 0.00010 | 437 | 0.01490 | 482 | 0.02020 | 527 | 0.05050 | 572 | 0.06720 | 617 | 0.08210 | 662 | 0.03200 | 707 | 0.00840 | 752 | 0.00190 |
| 393 | 0.00010 | 438 | 0.01670 | 483 | 0.02070 | 528 | 0.05060 | 573 | 0.06770 | 618 | 0.08180 | 663 | 0.03090 | 708 | 0.00810 | 753 | 0.00190 |
| 394 | 0.00010 | 439 | 0.01900 | 484 | 0.02120 | 529 | 0.05100 | 574 | 0.06830 | 619 | 0.08230 | 664 | 0.03000 | 709 | 0.00780 | 754 | 0.00180 |
| 395 | 0.00010 | 440 | 0.02170 | 485 | 0.02200 | 530 | 0.05140 | 575 | 0.06850 | 620 | 0.08040 | 665 | 0.02920 | 710 | 0.00760 | 755 | 0.00180 |
| 396 | 0.00010 | 441 | 0.02480 | 486 | 0.02250 | 531 | 0.05140 | 576 | 0.06920 | 621 | 0.07900 | 666 | 0.02850 | 711 | 0.00730 | 756 | 0.00170 |
| 397 | 0.00010 | 442 | 0.02830 | 487 | 0.02320 | 532 | 0.05190 | 577 | 0.06950 | 622 | 0.07760 | 667 | 0.02780 | 712 | 0.00710 | 757 | 0.00170 |
| 398 | 0.00010 | 443 | 0.03230 | 488 | 0.02390 | 533 | 0.05220 | 578 | 0.06990 | 623 | 0.07830 | 668 | 0.02730 | 713 | 0.00690 | 758 | 0.00160 |
| 399 | 0.00010 | 444 | 0.03630 | 489 | 0.02480 | 534 | 0.05240 | 579 | 0.07040 | 624 | 0.07890 | 669 | 0.02720 | 714 | 0.00670 | 759 | 0.00160 |
| 400 | 0.00010 | 445 | 0.04090 | 490 | 0.02570 | 535 | 0.05290 | 580 | 0.07090 | 625 | 0.07940 | 670 | 0.02680 | 715 | 0.00640 | 760 | 0.00150 |
| 401 | 0.00020 | 446 | 0.04490 | 491 | 0.02650 | 536 | 0.05310 | 581 | 0.07120 | 626 | 0.07960 | 671 | 0.02560 | 716 | 0.00620 | 761 | 0.00150 |
| 402 | 0.00020 | 447 | 0.04910 | 492 | 0.02760 | 537 | 0.05340 | 582 | 0.07190 | 627 | 0.07970 | 672 | 0.02480 | 717 | 0.00600 | 762 | 0.00140 |
| 403 | 0.00020 | 448 | 0.05230 | 493 | 0.02860 | 538 | 0.05370 | 583 | 0.07220 | 628 | 0.08480 | 673 | 0.02390 | 718 | 0.00590 | 763 | 0.00140 |
| 404 | 0.00020 | 449 | 0.05450 | 494 | 0.02950 | 539 | 0.05410 | 584 | 0.07280 | 629 | 0.11660 | 674 | 0.02300 | 719 | 0.00570 | 764 | 0.00130 |
| 405 | 0.00030 | 450 | 0.05530 | 495 | 0.03060 | 540 | 0.05430 | 585 | 0.07330 | 630 | 0.20300 | 675 | 0.02240 | 720 | 0.00550 | 765 | 0.00130 |
| 406 | 0.00030 | 451 | 0.05450 | 496 | 0.03150 | 541 | 0.05460 | 586 | 0.07380 | 631 | 0.21390 | 676 | 0.02160 | 721 | 0.00530 | 766 | 0.00130 |
| 407 | 0.00030 | 452 | 0.05270 | 497 | 0.03270 | 542 | 0.05510 | 587 | 0.07440 | 632 | 0.15070 | 677 | 0.02100 | 722 | 0.00510 | 767 | 0.00130 |
| 408 | 0.00030 | 453 | 0.04970 | 498 | 0.03370 | 543 | 0.05530 | 588 | 0.07450 | 633 | 0.10790 | 678 | 0.02040 | 723 | 0.00500 | 768 | 0.00120 |
| 409 | 0.00040 | 454 | 0.04600 | 499 | 0.03460 | 544 | 0.05570 | 589 | 0.07480 | 634 | 0.13820 | 679 | 0.01980 | 724 | 0.00480 | 769 | 0.00120 |
| 410 | 0.00050 | 455 | 0.04250 | 500 | 0.03560 | 545 | 0.05590 | 590 | 0.07490 | 635 | 0.16360 | 680 | 0.01920 | 725 | 0.00470 | 770 | 0.00110 |
| 411 | 0.00050 | 456 | 0.03910 | 501 | 0.03650 | 546 | 0.05640 | 591 | 0.07530 | 636 | 0.12070 | 681 | 0.01860 | 726 | 0.00450 | 771 | 0.00100 |
| 412 | 0.00060 | 457 | 0.03640 | 502 | 0.03750 | 547 | 0.05670 | 592 | 0.07550 | 637 | 0.08220 | 682 | 0.01810 | 727 | 0.00430 | 772 | 0.00110 |
| 413 | 0.00070 | 458 | 0.03440 | 503 | 0.03810 | 548 | 0.05720 | 593 | 0.07560 | 638 | 0.06520 | 683 | 0.01750 | 728 | 0.00420 | 773 | 0.00100 |
| 414 | 0.00080 | 459 | 0.03270 | 504 | 0.03900 | 549 | 0.05730 | 594 | 0.07580 | 639 | 0.05830 | 684 | 0.01700 | 729 | 0.00410 | 774 | 0.00100 |
| 415 | 0.00090 | 460 | 0.03170 | 505 | 0.03980 | 550 | 0.05770 | 595 | 0.07590 | 640 | 0.05530 | 685 | 0.01650 | 730 | 0.00400 | 775 | 0.00100 |
| 416 | 0.00100 | 461 | 0.03070 | 506 | 0.04060 | 551 | 0.05810 | 596 | 0.07650 | 641 | 0.05350 | 686 | 0.01600 | 731 | 0.00380 | 776 | 0.00090 |
| 417 | 0.00120 | 462 | 0.03020 | 507 | 0.04130 | 552 | 0.05860 | 597 | 0.07800 | 642 | 0.05200 | 687 | 0.01560 | 732 | 0.00370 | 777 | 0.00090 |
| 418 | 0.00140 | 463 | 0.02950 | 508 | 0.04190 | 553 | 0.05900 | 598 | 0.07860 | 643 | 0.05110 | 688 | 0.01500 | 733 | 0.00360 | 778 | 0.00090 |
| 419 | 0.00150 | 464 | 0.02880 | 509 | 0.04270 | 554 | 0.05950 | 599 | 0.07770 | 644 | 0.05030 | 689 | 0.01470 | 734 | 0.00350 | 779 | 0.00090 |
| 420 | 0.00180 | 465 | 0.02780 | 510 | 0.04330 | 555 | 0.05980 | 600 | 0.07750 | 645 | 0.05050 | 690 | 0.01420 | 735 | 0.00330 | 780 | 0.00090 |
| 421 | 0.00200 | 466 | 0.02670 | 511 | 0.04390 | 556 | 0.06010 | 601 | 0.07770 | 646 | 0.05910 | 691 | 0.01380 | 736 | 0.00330 | | |
| 422 | 0.00230 | 467 | 0.02530 | 512 | 0.04450 | 557 | 0.06060 | 602 | 0.07770 | 647 | 0.07410 | 692 | 0.01340 | 737 | 0.00320 | | |
| 423 | 0.00260 | 468 | 0.02390 | 513 | 0.04500 | 558 | 0.06090 | 603 | 0.07820 | 648 | 0.06670 | 693 | 0.01300 | 738 | 0.00310 | | |
| 424 | 0.00300 | 469 | 0.02280 | 514 | 0.04550 | 559 | 0.06140 | 604 | 0.07830 | 649 | 0.05430 | 694 | 0.01260 | 739 | 0.00300 | | |

| 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 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 3H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 6H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 8H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 12H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 4H | 2H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 3H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 6H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 8H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 12H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 8H | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 6H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 8H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 12H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 12H | 4H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 6H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| | 8H | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |

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.