



Les Industries Spectralux Inc. Spectralux Industries Inc.

2750 Sabourin, Saint-Laurent (Quebec) H4S 1M2 Canada
Tel.: (514) 332-0082 Fax: (514) 332-3590 www.spectralux.ca

ISO/IEC 17025
NVLAP
NVLAP LAB CODE: 200899-0

Sphere Test Report

Standard(s) CIE 84-1989, IESNA LM-16-93, IESNA LM-58-94, IES LM-79-08, ANSI C82.77-2002

Customer Lumenpulse, 1751 Richardson, suite 1505, Montréal, Québec, Canada, H3K 1G6

| General Information | | Lamp Details: CY2007 | Driver Details: CY809 | |
|---------------------------|--------------|----------------------|---|--|
| Test Report | L1504096-C2 | Description | CREE XPE2 LED's | Type Commercial |
| Test Date | 9 April 2015 | Manufacturer | Cree | Description 61W |
| Report Date | 9 April 2015 | Catalog No. | LOG HO-120-48-35K 12XPE2-30x60-SI-NO | Manufacturer MEAN WELL USA inc. |
| Sphere Temperature | 25.7 °C | Serial No. | SRIS 1875 | Catalog No. LPF-60-24 |
| Humidity | 18.3 % | Diameter | N/A mm | Voltage 120.00 V |
| Lamp Type | SSL | Color | White | Power Factor 0.9900 |

Stabilization Time: 60 minutes

Tested By: Jean-Paul Ojeil

Approved Signatory: Chrisnel Blot

Signature:

Notes

- 1) Field performance may differ from laboratory measurements. Results are valid for tested material only.
- 2) The original electronic file or paper report cannot be edited in whole or in part without written consent of Spectra Lux Industries Inc.
- 3) This test report describes the performance of a single product and does not necessarily represent the average performance of a group of the same SSL product.



Realization of Sphere Test

A 4π sphere-spectroradiometer equipped with auxiliary lamp to correct self-absorption was used during the measurements of electrical, photometric and colorimetric properties of the sample under test. The size of the integrating sphere used is large enough to ensure that the measurement errors due to effects of baffle and self-absorption by the sample test are not significant.

During the test, a commercial driver was used and adjusted to nominal electrical characteristics specified by the driver manufacturer or the client. Good electrical contacts have been used to ensure the control of electrical parameters of the commercial driver and an adequate stabilization period prior to collecting data. The self-absorbance was measured and a geometrical correction factor was applied to the luminous flux value to take into account the sphere configuration.

Results of the measurements are traceable to reference standards developed and maintained by the National Institute of Standards and Technology (NIST) and National Research Council of Canada (NRC).





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Electrical Equipment

| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due Date |
|------------------------|------------------------|------------|---------------|------------------|----------------------|
| Auxiliary Power Supply | American Reliance | SPS150-7 | B10155 | N.P.C.R. | N.P.C.R. |
| Test Power Supply | California Instruments | 801RP | 05816 | N.P.C.R. | N.P.C.R. |
| Input Power Meter | Yokogawa | WT210 | 91L236540 | 2014/10/22 | 2015/10/22 |
| Output Power Meter | N/A | N/A | N/A | N.P.C.R. | N.P.C.R. |
| Shunt Resistor | Fluke | Y5020 | 5675014 | 2014/08/06 | 2015/08/06 |
| Current Multimeter | HP Agilent | HP34401A | US36121202 | 2014/08/06 | 2015/08/06 |
| Voltage Multimeter | Fluke | Fluke8842A | 5750288 | 2014/04/16 | 2015/04/16 |

Spectrometer Equipment

| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------|----------|---------------|------------------|----------------------|
| Spectrometer | Ocean Optics | USB2000N | USB2E3864 | 2014/08/24 | 2015/08/24 |

Environment Equipment

| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due Date |
|-----------------------------|--------------|-------|---------------|------------------|----------------------|
| Temperature Humidity Sensor | Omega | HH311 | 120504176 | 2014/04/16 | 2016/04/16 |



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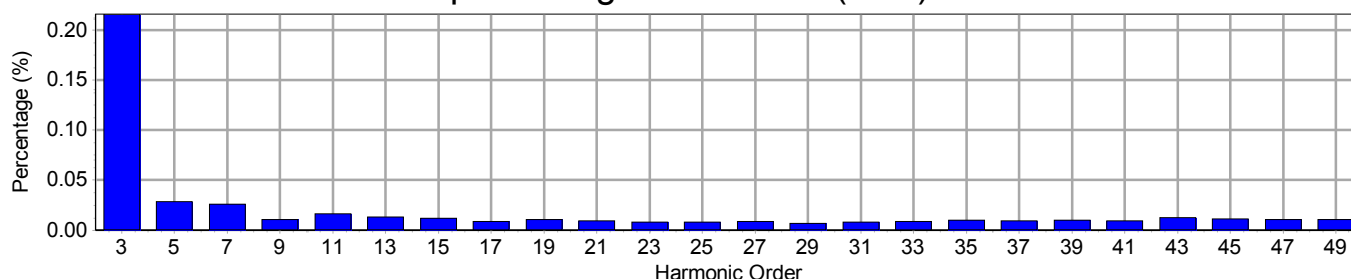
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Electrical Measurements

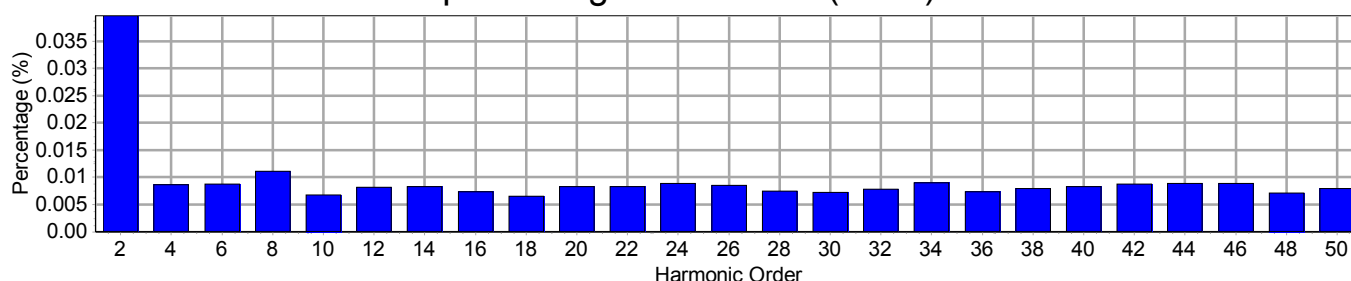
Input

| | | | | | |
|-----------|---------------|----------------|----------|------------------|-----------|
| Frequency | 60 Hz | Active Power | 60.57 W | THDV [ANSI] | 0.23 % |
| Voltage | 120.1 V(rms) | Apparent Power | 60.88 VA | THDA [ANSI] | 4.99 % |
| Current | 0.5068 A(rms) | Power Factor | 0.995 | Max. Harmonic At | 5th order |

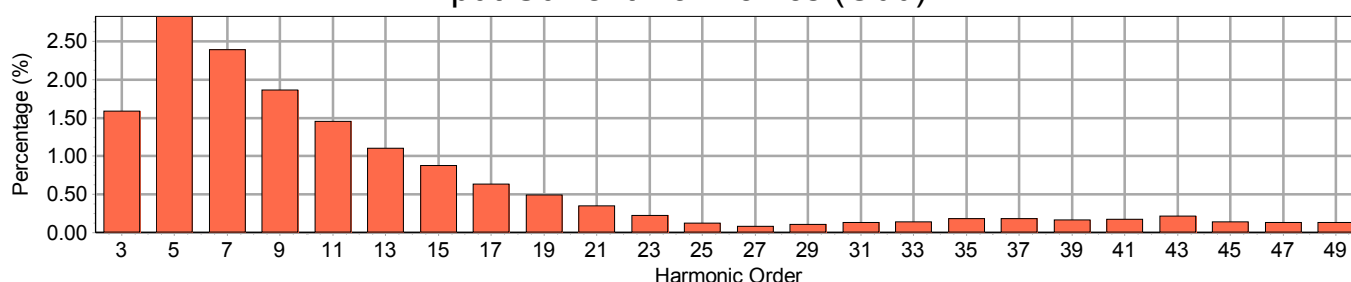
Input Voltage Harmonics (Odd)



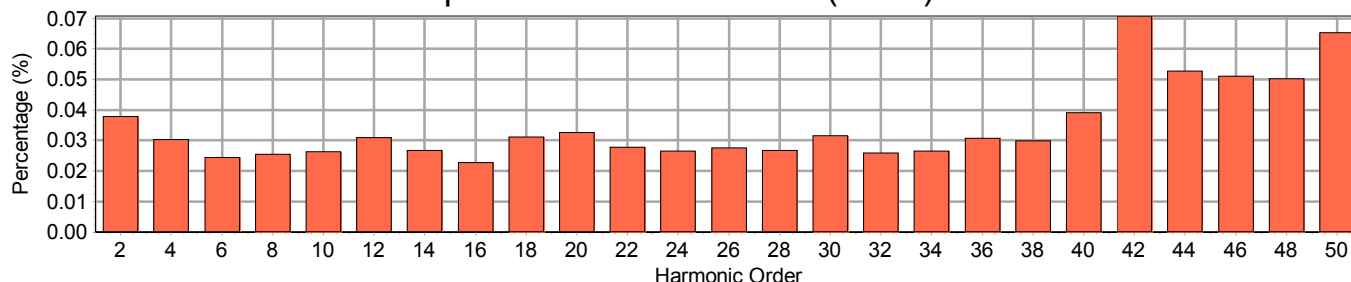
Input Voltage Harmonics (Even)



Input Current Harmonics (Odd)



Input Current Harmonics (Even)





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Harmonic Measurements

| Odd Harmonics | | | | Even Harmonics | | | |
|----------------|----------------|-----------------------|-----------------------|----------------|----------------|-----------------------|-----------------------|
| Harmonic Order | Frequency (HZ) | Voltage Harmonics (%) | Current Harmonics (%) | Harmonic Order | Frequency (HZ) | Voltage Harmonics (%) | Current Harmonics (%) |
| 1 | 60 | 100.000 | 100.000 | 2 | 120 | 0.040 | 0.038 |
| 3 | 180 | 0.216 | 1.587 | 4 | 240 | 0.009 | 0.030 |
| 5 | 300 | 0.028 | 2.834 | 6 | 360 | 0.009 | 0.024 |
| 7 | 420 | 0.026 | 2.398 | 8 | 480 | 0.011 | 0.026 |
| 9 | 540 | 0.010 | 1.866 | 10 | 600 | 0.007 | 0.026 |
| 11 | 660 | 0.016 | 1.457 | 12 | 720 | 0.008 | 0.031 |
| 13 | 780 | 0.013 | 1.105 | 14 | 840 | 0.008 | 0.027 |
| 15 | 900 | 0.012 | 0.880 | 16 | 960 | 0.007 | 0.023 |
| 17 | 1020 | 0.009 | 0.633 | 18 | 1080 | 0.007 | 0.031 |
| 19 | 1140 | 0.010 | 0.487 | 20 | 1200 | 0.008 | 0.033 |
| 21 | 1260 | 0.009 | 0.349 | 22 | 1320 | 0.008 | 0.028 |
| 23 | 1380 | 0.008 | 0.226 | 24 | 1440 | 0.009 | 0.026 |
| 25 | 1500 | 0.008 | 0.123 | 26 | 1560 | 0.008 | 0.028 |
| 27 | 1620 | 0.009 | 0.078 | 28 | 1680 | 0.008 | 0.027 |
| 29 | 1740 | 0.007 | 0.103 | 30 | 1800 | 0.007 | 0.032 |
| 31 | 1860 | 0.008 | 0.131 | 32 | 1920 | 0.008 | 0.026 |
| 33 | 1980 | 0.009 | 0.140 | 34 | 2040 | 0.009 | 0.027 |
| 35 | 2100 | 0.010 | 0.181 | 36 | 2160 | 0.007 | 0.031 |
| 37 | 2220 | 0.009 | 0.178 | 38 | 2280 | 0.008 | 0.030 |
| 39 | 2340 | 0.010 | 0.167 | 40 | 2400 | 0.008 | 0.039 |
| 41 | 2460 | 0.009 | 0.174 | 42 | 2520 | 0.009 | 0.071 |
| 43 | 2580 | 0.013 | 0.217 | 44 | 2640 | 0.009 | 0.053 |
| 45 | 2700 | 0.011 | 0.142 | 46 | 2760 | 0.009 | 0.051 |
| 47 | 2820 | 0.010 | 0.130 | 48 | 2880 | 0.007 | 0.050 |
| 49 | 2940 | 0.011 | 0.132 | 50 | 3000 | 0.008 | 0.065 |



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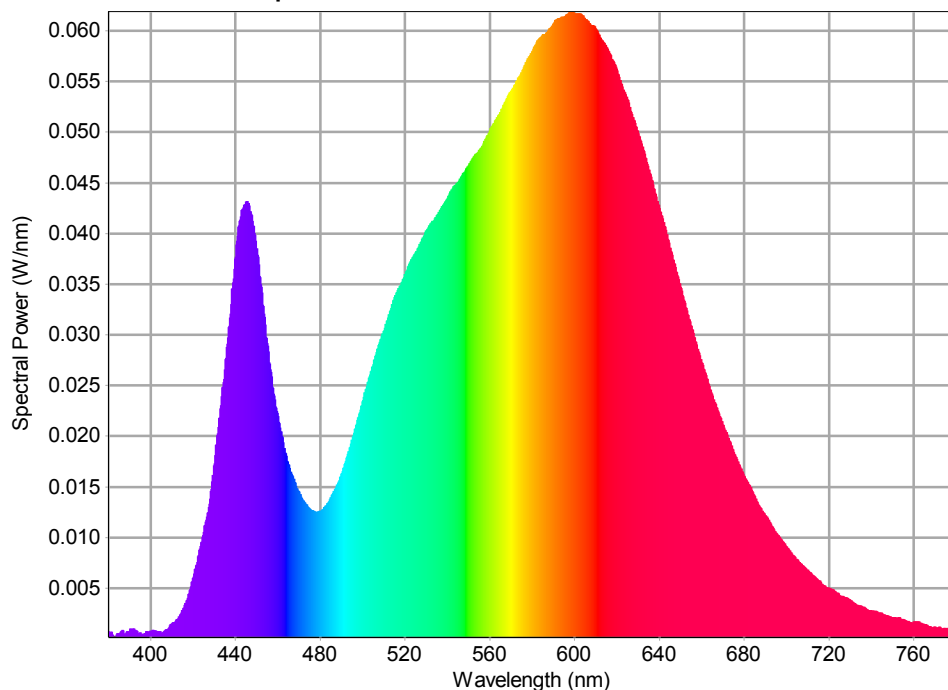
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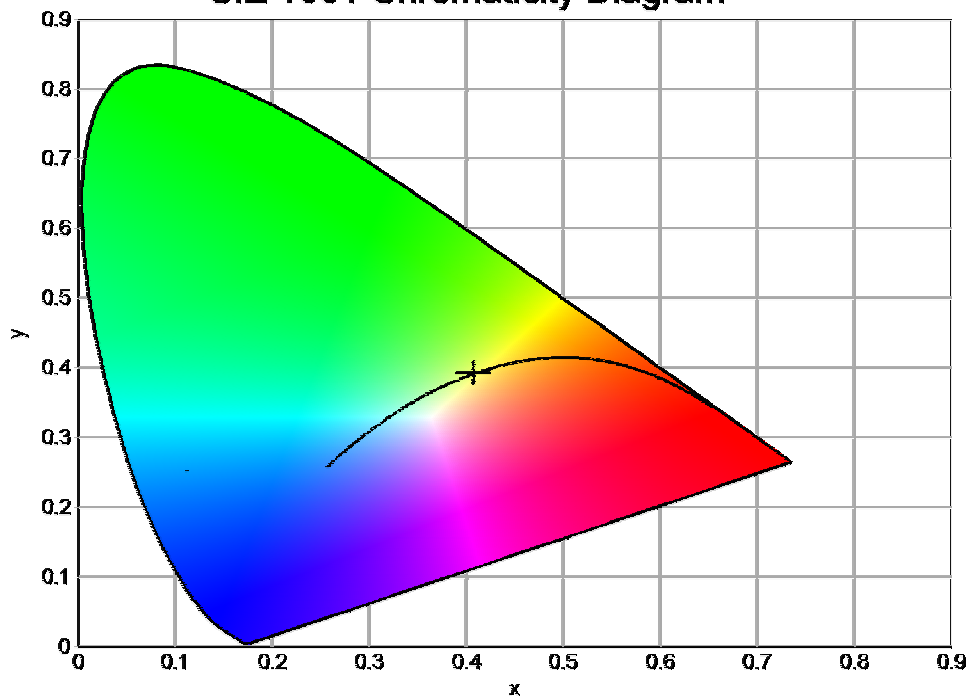
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Spectral Power Distribution



| | |
|-------------------------|---------|
| Peak Wavelength | 599 nm |
| Luminous Flux | 3394 lm |
| Input Power | 60.57 W |
| Lumens/Watt | 56.0 |
| Full Width/Half Maximum | 144.26 |
| Center Wavelength | 583 nm |
| Centroid Wavelength | 382 nm |
| Dominant Wavelength | 489 nm |
| Excitation Purity | 0.1032 |
| Colorimetric Purity | 0.0710 |

CIE 1931 Chromaticity Diagram



| | | | |
|----|--------|-----|--------|
| x | 0.4066 | CCT | 3492 K |
| y | 0.3933 | CRI | 81 |
| u | 0.2355 | L* | 25.67 |
| v | 0.3417 | a* | -3.60 |
| u' | 0.2355 | b* | -9.08 |
| v' | 0.5125 | Duv | 0.0009 |
| R1 | 79.6 | R9 | 6.8 |
| R2 | 86.6 | R10 | 68.5 |
| R3 | 92.7 | R11 | 80.2 |
| R4 | 81.5 | R12 | 65.4 |
| R5 | 79.5 | R13 | 80.8 |
| R6 | 82.3 | R14 | 95.6 |
| R7 | 85.3 | | |
| R8 | 63.0 | | |



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Spectral Power Distribution Table (1/4)

| Wavelength (nm) | Spectral Power (W/nm) | Wavelength (nm) | Spectral Power (W/nm) | Wavelength (nm) | Spectral Power (W/nm) | Wavelength (nm) | Spectral Power (W/nm) |
|--------------------|-----------------------------|--------------------|-----------------------------|--------------------|-----------------------------|--------------------|-----------------------------|
| 380 | 0.00076 | 405 | 0.00060 | 430 | 0.01709 | 455 | 0.02917 |
| 381 | 0.00070 | 406 | 0.00070 | 431 | 0.01914 | 456 | 0.02728 |
| 382 | 0.00048 | 407 | 0.00091 | 432 | 0.02091 | 457 | 0.02592 |
| 383 | 0.00028 | 408 | 0.00096 | 433 | 0.02277 | 458 | 0.02423 |
| 384 | 0.00048 | 409 | 0.00131 | 434 | 0.02483 | 459 | 0.02292 |
| 385 | 0.00050 | 410 | 0.00155 | 435 | 0.02658 | 460 | 0.02201 |
| 386 | 0.00073 | 411 | 0.00163 | 436 | 0.02883 | 461 | 0.02086 |
| 387 | 0.00084 | 412 | 0.00189 | 437 | 0.03076 | 462 | 0.02002 |
| 388 | 0.00052 | 413 | 0.00203 | 438 | 0.03304 | 463 | 0.01884 |
| 389 | 0.00076 | 414 | 0.00243 | 439 | 0.03518 | 464 | 0.01804 |
| 390 | 0.00080 | 415 | 0.00284 | 440 | 0.03753 | 465 | 0.01728 |
| 391 | 0.00084 | 416 | 0.00333 | 441 | 0.03979 | 466 | 0.01652 |
| 392 | 0.00104 | 417 | 0.00381 | 442 | 0.04125 | 467 | 0.01602 |
| 393 | 0.00086 | 418 | 0.00446 | 443 | 0.04234 | 468 | 0.01551 |
| 394 | 0.00057 | 419 | 0.00519 | 444 | 0.04281 | 469 | 0.01487 |
| 395 | 0.00063 | 420 | 0.00599 | 445 | 0.04311 | 470 | 0.01451 |
| 396 | 0.00040 | 421 | 0.00690 | 446 | 0.04302 | 471 | 0.01402 |
| 397 | 0.00046 | 422 | 0.00762 | 447 | 0.04220 | 472 | 0.01364 |
| 398 | 0.00077 | 423 | 0.00878 | 448 | 0.04124 | 473 | 0.01334 |
| 399 | 0.00071 | 424 | 0.00955 | 449 | 0.04006 | 474 | 0.01311 |
| 400 | 0.00082 | 425 | 0.01059 | 450 | 0.03856 | 475 | 0.01287 |
| 401 | 0.00088 | 426 | 0.01159 | 451 | 0.03698 | 476 | 0.01271 |
| 402 | 0.00085 | 427 | 0.01243 | 452 | 0.03499 | 477 | 0.01262 |
| 403 | 0.00074 | 428 | 0.01384 | 453 | 0.03299 | 478 | 0.01250 |
| 404 | 0.00077 | 429 | 0.01553 | 454 | 0.03101 | 479 | 0.01257 |



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Spectral Power Distribution Table (2/4)

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|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|
| 480 | 0.01266 | 505 | 0.02712 | 530 | 0.04029 | 555 | 0.04823 |
| 481 | 0.01275 | 506 | 0.02794 | 531 | 0.04060 | 556 | 0.04852 |
| 482 | 0.01301 | 507 | 0.02863 | 532 | 0.04097 | 557 | 0.04888 |
| 483 | 0.01321 | 508 | 0.02931 | 533 | 0.04122 | 558 | 0.04934 |
| 484 | 0.01355 | 509 | 0.02985 | 534 | 0.04148 | 559 | 0.04971 |
| 485 | 0.01397 | 510 | 0.03042 | 535 | 0.04180 | 560 | 0.05013 |
| 486 | 0.01442 | 511 | 0.03107 | 536 | 0.04213 | 561 | 0.05060 |
| 487 | 0.01477 | 512 | 0.03171 | 537 | 0.04250 | 562 | 0.05089 |
| 488 | 0.01521 | 513 | 0.03238 | 538 | 0.04282 | 563 | 0.05128 |
| 489 | 0.01570 | 514 | 0.03301 | 539 | 0.04317 | 564 | 0.05167 |
| 490 | 0.01629 | 515 | 0.03372 | 540 | 0.04352 | 565 | 0.05198 |
| 491 | 0.01690 | 516 | 0.03414 | 541 | 0.04396 | 566 | 0.05241 |
| 492 | 0.01758 | 517 | 0.03460 | 542 | 0.04433 | 567 | 0.05294 |
| 493 | 0.01825 | 518 | 0.03494 | 543 | 0.04463 | 568 | 0.05332 |
| 494 | 0.01890 | 519 | 0.03548 | 544 | 0.04486 | 569 | 0.05380 |
| 495 | 0.01965 | 520 | 0.03599 | 545 | 0.04510 | 570 | 0.05409 |
| 496 | 0.02037 | 521 | 0.03648 | 546 | 0.04542 | 571 | 0.05437 |
| 497 | 0.02113 | 522 | 0.03703 | 547 | 0.04581 | 572 | 0.05477 |
| 498 | 0.02189 | 523 | 0.03745 | 548 | 0.04606 | 573 | 0.05513 |
| 499 | 0.02263 | 524 | 0.03781 | 549 | 0.04644 | 574 | 0.05553 |
| 500 | 0.02343 | 525 | 0.03815 | 550 | 0.04674 | 575 | 0.05592 |
| 501 | 0.02430 | 526 | 0.03853 | 551 | 0.04713 | 576 | 0.05643 |
| 502 | 0.02498 | 527 | 0.03898 | 552 | 0.04744 | 577 | 0.05688 |
| 503 | 0.02578 | 528 | 0.03945 | 553 | 0.04779 | 578 | 0.05729 |
| 504 | 0.02639 | 529 | 0.03981 | 554 | 0.04797 | 579 | 0.05757 |



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Spectral Power Distribution Table (3/4)

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|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|
| 580 | 0.05798 | 605 | 0.06115 | 630 | 0.04991 | 655 | 0.03093 |
| 581 | 0.05844 | 606 | 0.06100 | 631 | 0.04926 | 656 | 0.03022 |
| 582 | 0.05885 | 607 | 0.06079 | 632 | 0.04859 | 657 | 0.02938 |
| 583 | 0.05918 | 608 | 0.06055 | 633 | 0.04786 | 658 | 0.02864 |
| 584 | 0.05935 | 609 | 0.06052 | 634 | 0.04705 | 659 | 0.02798 |
| 585 | 0.05967 | 610 | 0.06022 | 635 | 0.04633 | 660 | 0.02732 |
| 586 | 0.05966 | 611 | 0.05980 | 636 | 0.04558 | 661 | 0.02665 |
| 587 | 0.05987 | 612 | 0.05938 | 637 | 0.04483 | 662 | 0.02601 |
| 588 | 0.06024 | 613 | 0.05907 | 638 | 0.04401 | 663 | 0.02529 |
| 589 | 0.06041 | 614 | 0.05879 | 639 | 0.04321 | 664 | 0.02463 |
| 590 | 0.06069 | 615 | 0.05840 | 640 | 0.04250 | 665 | 0.02398 |
| 591 | 0.06106 | 616 | 0.05803 | 641 | 0.04180 | 666 | 0.02337 |
| 592 | 0.06119 | 617 | 0.05757 | 642 | 0.04114 | 667 | 0.02288 |
| 593 | 0.06129 | 618 | 0.05711 | 643 | 0.04036 | 668 | 0.02226 |
| 594 | 0.06136 | 619 | 0.05672 | 644 | 0.03947 | 669 | 0.02177 |
| 595 | 0.06136 | 620 | 0.05610 | 645 | 0.03863 | 670 | 0.02115 |
| 596 | 0.06161 | 621 | 0.05544 | 646 | 0.03789 | 671 | 0.02064 |
| 597 | 0.06168 | 622 | 0.05481 | 647 | 0.03711 | 672 | 0.02018 |
| 598 | 0.06187 | 623 | 0.05420 | 648 | 0.03629 | 673 | 0.01958 |
| 599 | 0.06192 | 624 | 0.05375 | 649 | 0.03549 | 674 | 0.01909 |
| 600 | 0.06172 | 625 | 0.05325 | 650 | 0.03476 | 675 | 0.01848 |
| 601 | 0.06169 | 626 | 0.05250 | 651 | 0.03390 | 676 | 0.01802 |
| 602 | 0.06174 | 627 | 0.05178 | 652 | 0.03314 | 677 | 0.01753 |
| 603 | 0.06168 | 628 | 0.05122 | 653 | 0.03238 | 678 | 0.01701 |
| 604 | 0.06152 | 629 | 0.05056 | 654 | 0.03160 | 679 | 0.01658 |



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| Wavelength (nm) | Spectral Power (W/nm) | Wavelength (nm) | Spectral Power (W/nm) | Wavelength (nm) | Spectral Power (W/nm) | Wavelength (nm) | Spectral Power (W/nm) |
|--------------------|-----------------------------|--------------------|-----------------------------|--------------------|-----------------------------|--------------------|-----------------------------|
| 680 | 0.01609 | 706 | 0.00762 | 732 | 0.00354 | 758 | 0.00165 |
| 681 | 0.01569 | 707 | 0.00737 | 733 | 0.00337 | 759 | 0.00159 |
| 682 | 0.01530 | 708 | 0.00718 | 734 | 0.00333 | 760 | 0.00169 |
| 683 | 0.01499 | 709 | 0.00700 | 735 | 0.00331 | 761 | 0.00169 |
| 684 | 0.01447 | 710 | 0.00681 | 736 | 0.00318 | 762 | 0.00170 |
| 685 | 0.01409 | 711 | 0.00657 | 737 | 0.00310 | 763 | 0.00162 |
| 686 | 0.01358 | 712 | 0.00637 | 738 | 0.00292 | 764 | 0.00150 |
| 687 | 0.01318 | 713 | 0.00623 | 739 | 0.00285 | 765 | 0.00144 |
| 688 | 0.01287 | 714 | 0.00602 | 740 | 0.00279 | 766 | 0.00138 |
| 689 | 0.01252 | 715 | 0.00580 | 741 | 0.00278 | 767 | 0.00125 |
| 690 | 0.01220 | 716 | 0.00566 | 742 | 0.00278 | 768 | 0.00122 |
| 691 | 0.01195 | 717 | 0.00538 | 743 | 0.00262 | 769 | 0.00112 |
| 692 | 0.01156 | 718 | 0.00526 | 744 | 0.00257 | 770 | 0.00123 |
| 693 | 0.01118 | 719 | 0.00510 | 745 | 0.00253 | 771 | 0.00110 |
| 694 | 0.01081 | 720 | 0.00507 | 746 | 0.00242 | 772 | 0.00120 |
| 695 | 0.01048 | 721 | 0.00495 | 747 | 0.00235 | 773 | 0.00103 |
| 696 | 0.01025 | 722 | 0.00490 | 748 | 0.00229 | 774 | 0.00110 |
| 697 | 0.00994 | 723 | 0.00466 | 749 | 0.00220 | 775 | 0.00106 |
| 698 | 0.00967 | 724 | 0.00456 | 750 | 0.00219 | 776 | 0.00106 |
| 699 | 0.00944 | 725 | 0.00432 | 751 | 0.00214 | 777 | 0.00108 |
| 700 | 0.00911 | 726 | 0.00426 | 752 | 0.00213 | 778 | 0.00102 |
| 701 | 0.00885 | 727 | 0.00417 | 753 | 0.00215 | 779 | 0.00096 |
| 702 | 0.00855 | 728 | 0.00410 | 754 | 0.00200 | 780 | 0.00078 |
| 703 | 0.00831 | 729 | 0.00401 | 755 | 0.00194 | | |
| 704 | 0.00807 | 730 | 0.00385 | 756 | 0.00188 | | |
| 705 | 0.00785 | 731 | 0.00371 | 757 | 0.00171 | | |



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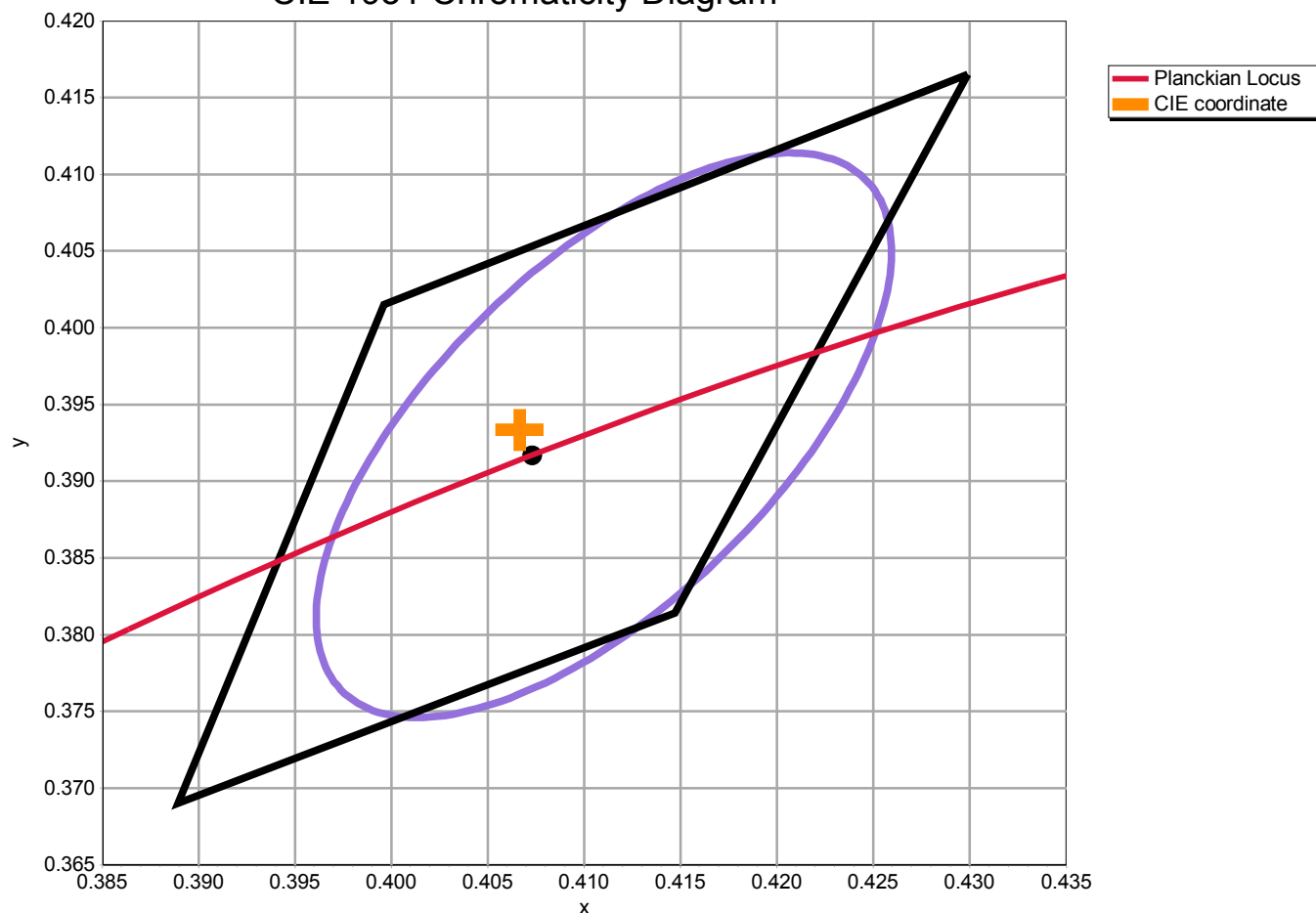
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CIE Chromaticity Diagram for Indoor SSL products

CIE 1931 Chromaticity Diagram



Chromaticity tolerance for 3500K nominal CCT

| | |
|------------|--------|
| Min CCT | 3220 |
| Max CCT | 3710 |
| Delta T | 245 |
| Center Duv | 0.0000 |