**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , D65, not normalized**

| *i* | λd | $X_i$ | $Y_i$ | $Z_i$ | $x_i$ | $y_i$ | $z_i$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.0566 | 0.403 | 0.5853 | 0.0541 | 0.3856 | 0.56 | | 19 | −1 |
| 1 | 500 | 0.0273 | 0.473 | 0.4876 | 0.0277 | 0.4787 | 0.4934 | | 20 | −1 |
| 2 | 505 | 0.0123 | 0.5423 | 0.3957 | 0.0129 | 0.5706 | 0.4163 | | 21 | −1 |
| 3 | 510 | 0.0137 | 0.6134 | 0.3159 | 0.0146 | 0.6502 | 0.3349 | | 21 | −1 |
| 4 | 515 | 0.0326 | 0.6797 | 0.2466 | 0.034 | 0.7087 | 0.2571 | | 23 | −1 |
| 5 | 520 | 0.0688 | 0.7428 | 0.1894 | 0.0688 | 0.7419 | 0.1891 | | 23 | −1 |
| 6 | 525 | 0.1248 | 0.823 | 0.1471 | 0.114 | 0.7515 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.199 | 0.8999 | 0.1125 | 0.1643 | 0.7427 | 0.0928 | | 25 | −1 |
| 8 | 535 | 0.2813 | 0.9419 | 0.0822 | 0.2154 | 0.7214 | 0.0629 | | 27 | −1 |
| 9 | 540 | 0.3716 | 0.9731 | 0.0591 | 0.2647 | 0.693 | 0.0421 | | 28 | −1 |
| 10 | 545 | 0.4717 | 1.0048 | 0.0424 | 0.3105 | 0.6614 | 0.0279 | | 28 | −1 |
| 11 | 550 | 0.573 | 1.0234 | 0.0299 | 0.3523 | 0.6292 | 0.0184 | | 29 | −1 |
| 12 | 555 | 0.659 | 1.0102 | 0.0204 | 0.3899 | 0.5978 | 0.012 | | 30 | 10 |
| 13 | 560 | 0.7332 | 0.9832 | 0.0137 | 0.4237 | 0.5682 | 0.0079 | | 32 | 13 |
| 14 | 565 | 0.7937 | 0.9453 | 0.009 | 0.4539 | 0.5407 | 0.0051 | | 32 | 14 |
| *i* | λd | $X_{ci}$ | $Y_{ci}$ | $Z_{ci}$ | $x_{ci}$ | $y_{ci}$ | $z_{ci}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0041 | 0.0017 | 0.0 | 0.695 | 0.2883 | 0.0 | not normalized | | |
| 1 | 495c | 0.0043 | 0.0017 | 0.0004 | 0.6525 | 0.2611 | 0.0712 | 0.0006 | 0.996 | 0.997 |
| 2 | 500c | 0.0048 | 0.0017 | 0.002 | 0.555 | 0.1987 | 0.2346 | −0.0009 | 0.9873 | 0.9882 |
| 3 | 505c | 0.0051 | 0.0017 | 0.0029 | 0.5162 | 0.1739 | 0.2997 | 0.0007 | 0.9804 | 0.9814 |
| 4 | 510c | 0.0054 | 0.0017 | 0.0039 | 0.486 | 0.1546 | 0.3503 | 0.0011 | 0.9746 | 0.9755 |
| 5 | 515c | 0.0057 | 0.0017 | 0.0048 | 0.4619 | 0.1392 | 0.3907 | 0.0009 | 0.9687 | 0.9697 |
| 6 | 520c | 0.006 | 0.0017 | 0.0058 | 0.4423 | 0.1266 | 0.4237 | 0.0011 | 0.9628 | 0.9638 |
| 7 | 525c | 0.0064 | 0.0017 | 0.007 | 0.421 | 0.113 | 0.4594 | −0.0003 | 0.956 | 0.957 |
| 8 | 530c | 0.0069 | 0.0017 | 0.0083 | 0.4039 | 0.1021 | 0.488 | 0.0009 | 0.9472 | 0.9482 |
| 9 | 535c | 0.0076 | 0.0017 | 0.0105 | 0.3809 | 0.0873 | 0.5267 | −0.0002 | 0.9345 | 0.9355 |
| 10 | 540c | 0.0087 | 0.0017 | 0.014 | 0.3557 | 0.0713 | 0.5688 | −0.0004 | 0.913 | 0.914 |
| 11 | 545c | 0.0111 | 0.0017 | 0.0212 | 0.325 | 0.0516 | 0.6203 | 0.0 | 0.8681 | 0.8691 |
| 12 | 550c | 0.0201 | 0.0018 | 0.0486 | 0.2846 | 0.0257 | 0.6881 | 0.0 | 0.6972 | 0.6982 |
| 13 | 555c | 0.0569 | 0.002 | 0.1609 | 0.2587 | 0.0092 | 0.7315 | 0.1606 | 0.0 | 0.0009 |
| 14 | 560c | 0.0569 | 0.002 | 0.1609 | 0.2587 | 0.0092 | 0.7315 | 0.4723 | 0.0 | 0.0009 |
| 15 | 565c | 0.0569 | 0.002 | 0.1609 | 0.2587 | 0.0092 | 0.7315 | 0.7568 | 0.0 | 0.0009 |
| 0 | 400 | 0.0569 | 0.002 | 0.1611 | 0.2587 | 0.0092 | 0.7315 | not normalized | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 20.416 | 21.16 | 22.423 | 0.3189 | 0.3306 | 0.3503 | not normalized | | |
| 380 | 780 | 96.482 | 100.0 | 105.97 | 0.3189 | 0.3306 | 0.3503 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, not normalized**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0041 | 0.0043 | 0.0048 | 0.0051 | 0.0054 | 0.0057 | 0.006 | 0.0064 | 0.0069 |
| 0.0076 | 0.0087 | 0.0111 | 0.0201 | 0.0569 | 0.0569 | 0.0569 | 0.0569 | |
| 0.0017 | 0.0017 | 0.0017 | 0.0017 | 0.0017 | 0.0017 | 0.0017 | 0.0017 | 0.0017 |
| 0.0017 | 0.0017 | 0.0017 | 0.0018 | 0.002 | 0.002 | 0.002 | 0.002 | |
| 0.0 | 0.0004 | 0.002 | 0.0029 | 0.0039 | 0.0048 | 0.0058 | 0.007 | 0.0083 |
| 0.0105 | 0.014 | 0.0212 | 0.0486 | 0.1609 | 0.1609 | 0.1609 | 0.1611 | |

CE860−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , D65, normalized, $Y_w$=100**

| *i* | λd | $X_{ni}$ | $Y_{ni}$ | $Z_{ni}$ | $x_{ni}$ | $y_{ni}$ | $z_{ni}$ | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.2675 | 1.9046 | 2.7661 | 0.0541 | 0.3856 | 0.5601 | 19 | −1 |
| 1 | 500 | 0.1294 | 2.2356 | 2.3044 | 0.0277 | 0.4787 | 0.4934 | 20 | −1 |
| 2 | 505 | 0.0581 | 2.5632 | 1.8701 | 0.0129 | 0.5706 | 0.4163 | 21 | −1 |
| 3 | 510 | 0.0651 | 2.8989 | 1.4933 | 0.0146 | 0.6503 | 0.335 | 21 | −1 |
| 4 | 515 | 0.1543 | 3.2125 | 1.1656 | 0.034 | 0.7087 | 0.2571 | 23 | −1 |
| 5 | 520 | 0.3256 | 3.5107 | 0.8951 | 0.0688 | 0.7419 | 0.1891 | 24 | −1 |
| 6 | 525 | 0.5899 | 3.8893 | 0.6952 | 0.114 | 0.7516 | 0.1343 | 24 | −1 |
| 7 | 530 | 0.9408 | 4.2529 | 0.5318 | 0.1643 | 0.7427 | 0.0928 | 25 | −1 |
| 8 | 535 | 1.3295 | 4.4515 | 0.3884 | 0.2154 | 0.7215 | 0.0629 | 26 | −1 |
| 9 | 540 | 1.7565 | 4.5988 | 0.2794 | 0.2647 | 0.6931 | 0.0421 | 27 | −1 |
| 10 | 545 | 2.2293 | 4.7487 | 0.2004 | 0.3105 | 0.6615 | 0.0279 | 28 | −1 |
| 11 | 550 | 2.708 | 4.8364 | 0.1414 | 0.3523 | 0.6292 | 0.0184 | 29 | −1 |
| 12 | 555 | 3.1143 | 4.7741 | 0.0965 | 0.39 | 0.5978 | 0.012 | 31 | 10 |
| 13 | 560 | 3.4653 | 4.6465 | 0.0647 | 0.4238 | 0.5682 | 0.0079 | 31 | 13 |
| 14 | 565 | 3.7509 | 4.4677 | 0.0428 | 0.454 | 0.5407 | 0.0051 | 33 | 14 |
| *i* | λd | $X_{cni}$ | $Y_{cni}$ | $Z_{cni}$ | $x_{cni}$ | $y_{cni}$ | $z_{cni}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0196 | 0.0081 | 0.0 | 0.7042 | 0.2921 | 0.0 | normalized, $Y_w$=100 | | |
| 1 | 495c | 0.0204 | 0.0081 | 0.0022 | 0.6603 | 0.2642 | 0.0721 | 0.0152 | 0.996 | 0.997 |
| 2 | 500c | 0.0228 | 0.0081 | 0.0096 | 0.5601 | 0.2006 | 0.2367 | −0.0219 | 0.9873 | 0.9882 |
| 3 | 505c | 0.0243 | 0.0081 | 0.0141 | 0.5203 | 0.1753 | 0.3021 | 0.0159 | 0.9804 | 0.9814 |
| 4 | 510c | 0.0257 | 0.0082 | 0.0185 | 0.4895 | 0.1557 | 0.3528 | 0.0251 | 0.9746 | 0.9755 |
| 5 | 515c | 0.0272 | 0.0082 | 0.023 | 0.4649 | 0.1401 | 0.3932 | 0.0215 | 0.9687 | 0.9697 |
| 6 | 520c | 0.0287 | 0.0082 | 0.0275 | 0.4448 | 0.1273 | 0.4262 | 0.0245 | 0.9628 | 0.9638 |
| 7 | 525c | 0.0306 | 0.0082 | 0.0334 | 0.4232 | 0.1136 | 0.4617 | −0.0079 | 0.956 | 0.957 |
| 8 | 530c | 0.0326 | 0.0082 | 0.0394 | 0.4058 | 0.1025 | 0.4903 | 0.0218 | 0.9472 | 0.9482 |
| 9 | 535c | 0.036 | 0.0082 | 0.0498 | 0.3824 | 0.0877 | 0.5287 | −0.0066 | 0.9345 | 0.9355 |
| 10 | 540c | 0.0413 | 0.0082 | 0.0661 | 0.3569 | 0.0715 | 0.5706 | −0.0094 | 0.913 | 0.914 |
| 11 | 545c | 0.0526 | 0.0083 | 0.1003 | 0.3258 | 0.0517 | 0.6217 | −0.0019 | 0.8681 | 0.8691 |
| 12 | 550c | 0.095 | 0.0086 | 0.2297 | 0.2849 | 0.0258 | 0.6889 | 0.002 | 0.6972 | 0.6982 |
| 13 | 555c | 0.269 | 0.0096 | 0.7606 | 0.2588 | 0.0092 | 0.7317 | 3.5888 | 0.0 | 0.0009 |
| 14 | 560c | 0.269 | 0.0096 | 0.7606 | 0.2588 | 0.0092 | 0.7317 | 10.5493 | 0.0 | 0.0009 |
| 15 | 565c | 0.269 | 0.0096 | 0.7606 | 0.2588 | 0.0092 | 0.7317 | 16.9032 | 0.0 | 0.0009 |
| 0 | 400 | 0.2693 | 0.0096 | 0.7614 | 0.2588 | 0.0092 | 0.7318 | normalized, $Y_w$=100 | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 20.416 | 21.16 | 22.423 | 0.3189 | 0.3306 | 0.3503 | not normalized | | |
| 380 | 780 | 96.482 | 100.0 | 105.97 | 0.3189 | 0.3306 | 0.3503 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, normalized, $Y_w$=100**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0196 | 0.0204 | 0.0228 | 0.0243 | 0.0257 | 0.0272 | 0.0287 | 0.0306 | 0.0326 |
| 0.036 | 0.0413 | 0.0526 | 0.095 | 0.269 | 0.269 | 0.269 | 0.2693 | |
| 0.0081 | 0.0081 | 0.0081 | 0.0081 | 0.0082 | 0.0082 | 0.0082 | 0.0082 | 0.0082 |
| 0.0082 | 0.0082 | 0.0083 | 0.0086 | 0.0096 | 0.0096 | 0.0096 | 0.0096 | |
| 0.0 | 0.0022 | 0.0096 | 0.0141 | 0.0185 | 0.023 | 0.0275 | 0.0334 | 0.0394 |
| 0.0498 | 0.0661 | 0.1003 | 0.2297 | 0.7606 | 0.7606 | 0.7606 | 0.7614 | |

CE861−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , D50, not normalized**

| *i* | λd | $X_i$ | $Y_i$ | $Z_i$ | $x_i$ | $y_i$ | $z_i$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.0486 | 0.3465 | 0.5032 | 0.0541 | 0.3856 | 0.56 | | 19 | 47 |
| 1 | 500 | 0.0239 | 0.4138 | 0.4265 | 0.0277 | 0.4787 | 0.4934 | | 20 | −1 |
| 2 | 505 | 0.0109 | 0.4804 | 0.3505 | 0.0129 | 0.5706 | 0.4163 | | 20 | −1 |
| 3 | 510 | 0.0123 | 0.5496 | 0.2831 | 0.0146 | 0.6502 | 0.3349 | | 22 | −1 |
| 4 | 515 | 0.0297 | 0.619 | 0.2246 | 0.034 | 0.7086 | 0.2571 | | 23 | −1 |
| 5 | 520 | 0.0638 | 0.6882 | 0.1755 | 0.0688 | 0.7419 | 0.1891 | | 24 | −1 |
| 6 | 525 | 0.117 | 0.7718 | 0.1379 | 0.1139 | 0.7515 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.1887 | 0.8531 | 0.1066 | 0.1643 | 0.7427 | 0.0928 | | 25 | −1 |
| 8 | 535 | 0.2691 | 0.901 | 0.0786 | 0.2154 | 0.7214 | 0.0629 | | 26 | −1 |
| 9 | 540 | 0.3588 | 0.9395 | 0.057 | 0.2647 | 0.693 | 0.0421 | | 27 | −1 |
| 10 | 545 | 0.4595 | 0.9788 | 0.0413 | 0.3105 | 0.6614 | 0.0279 | | 29 | −1 |
| 11 | 550 | 0.5636 | 1.0066 | 0.0294 | 0.3523 | 0.6292 | 0.0184 | | 29 | −1 |
| 12 | 555 | 0.6538 | 1.0023 | 0.0202 | 0.3899 | 0.5978 | 0.012 | | 31 | −1 |
| 13 | 560 | 0.7332 | 0.9832 | 0.0137 | 0.4237 | 0.5682 | 0.0079 | | 32 | 12 |
| 14 | 565 | 0.7993 | 0.9521 | 0.0091 | 0.4539 | 0.5407 | 0.0051 | | 33 | 14 |
| *i* | λd | $X_{ci}$ | $Y_{ci}$ | $Z_{ci}$ | $x_{ci}$ | $y_{ci}$ | $z_{ci}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0053 | 0.0022 | 0.0 | 0.6975 | 0.2893 | 0.0 | not normalized | | |
| 1 | 495c | 0.0053 | 0.0022 | 0.0 | 0.6903 | 0.2847 | 0.012 | −0.005 | 0.999 | 1.0 |
| 2 | 500c | 0.0056 | 0.0022 | 0.001 | 0.6286 | 0.2453 | 0.1148 | −0.0006 | 0.9892 | 0.9902 |
| 3 | 505c | 0.0059 | 0.0021 | 0.0021 | 0.5734 | 0.2101 | 0.2068 | 0.0001 | 0.9765 | 0.9775 |
| 4 | 510c | 0.0062 | 0.0021 | 0.003 | 0.5379 | 0.1874 | 0.2659 | 0.0007 | 0.9667 | 0.9677 |
| 5 | 515c | 0.0065 | 0.0021 | 0.004 | 0.5091 | 0.1691 | 0.3139 | 0.0003 | 0.957 | 0.958 |
| 6 | 520c | 0.0068 | 0.0021 | 0.0049 | 0.4852 | 0.1538 | 0.3537 | −0.0003 | 0.9482 | 0.9492 |
| 7 | 525c | 0.007 | 0.0021 | 0.0059 | 0.4652 | 0.141 | 0.3871 | −0.0005 | 0.9384 | 0.9394 |
| 8 | 530c | 0.0074 | 0.0021 | 0.007 | 0.4449 | 0.1281 | 0.4209 | −0.0008 | 0.9267 | 0.9277 |
| 9 | 535c | 0.0078 | 0.0021 | 0.0083 | 0.4253 | 0.1156 | 0.4536 | 0.0002 | 0.9121 | 0.913 |
| 10 | 540c | 0.0084 | 0.0021 | 0.0105 | 0.3989 | 0.0987 | 0.4975 | −0.0005 | 0.8896 | 0.8906 |
| 11 | 545c | 0.0096 | 0.002 | 0.0143 | 0.3679 | 0.079 | 0.5491 | −0.0003 | 0.8505 | 0.8515 |
| 12 | 550c | 0.0121 | 0.0019 | 0.0229 | 0.3272 | 0.053 | 0.6169 | 0.0001 | 0.7597 | 0.7607 |
| 13 | 555c | 0.0257 | 0.0014 | 0.0684 | 0.2686 | 0.0156 | 0.7146 | 0.0 | 0.2851 | 0.2861 |
| 14 | 560c | 0.0339 | 0.0012 | 0.0958 | 0.2586 | 0.0092 | 0.7312 | 0.1598 | 0.0 | 0.0009 |
| 15 | 565c | 0.0339 | 0.0012 | 0.0958 | 0.2586 | 0.0092 | 0.7312 | 0.3333 | 0.0 | 0.0009 |
| 0 | 400 | 0.0339 | 0.0012 | 0.0959 | 0.2586 | 0.0092 | 0.7313 | not normalized | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 19.529 | 20.756 | 16.973 | 0.341 | 0.3624 | 0.2964 | not normalized | | |
| 380 | 780 | 94.088 | 100.0 | 81.776 | 0.341 | 0.3624 | 0.2964 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, not normalized**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0053 | 0.0053 | 0.0056 | 0.0059 | 0.0062 | 0.0065 | 0.0068 | 0.007 | 0.0074 |
| 0.0078 | 0.0084 | 0.0096 | 0.0121 | 0.0257 | 0.0339 | 0.0339 | 0.0339 | |
| 0.0022 | 0.0022 | 0.0022 | 0.0021 | 0.0021 | 0.0021 | 0.0021 | 0.0021 | 0.0021 |
| 0.0021 | 0.0021 | 0.002 | 0.0019 | 0.0014 | 0.0012 | 0.0012 | 0.0012 | |
| 0.0 | 0.0 | 0.001 | 0.0021 | 0.003 | 0.004 | 0.0049 | 0.0059 | 0.007 |
| 0.0083 | 0.0105 | 0.0143 | 0.0229 | 0.0684 | 0.0958 | 0.0958 | 0.0959 | |

CE860−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , D50, normalized, $Y_w$=100**

| *i* | λd | $X_{ni}$ | $Y_{ni}$ | $Z_{ni}$ | $x_{ni}$ | $y_{ni}$ | $z_{ni}$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.2344 | 1.6694 | 2.4245 | 0.0541 | 0.3856 | 0.5601 | | 19 | 47 |
| 1 | 500 | 0.1154 | 1.9937 | 2.055 | 0.0277 | 0.4787 | 0.4934 | | 20 | −1 |
| 2 | 505 | 0.0525 | 2.3147 | 1.6888 | 0.0129 | 0.5706 | 0.4163 | | 21 | −1 |
| 3 | 510 | 0.0594 | 2.6483 | 1.3642 | 0.0146 | 0.6503 | 0.335 | | 22 | −1 |
| 4 | 515 | 0.1432 | 2.9824 | 1.0821 | 0.034 | 0.7087 | 0.2571 | | 23 | −1 |
| 5 | 520 | 0.3075 | 3.3161 | 0.8455 | 0.0688 | 0.7419 | 0.1891 | | 23 | −1 |
| 6 | 525 | 0.564 | 3.7186 | 0.6647 | 0.114 | 0.7516 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.9093 | 4.1103 | 0.5139 | 0.1643 | 0.7427 | 0.0928 | | 25 | −1 |
| 8 | 535 | 1.2966 | 4.3413 | 0.3788 | 0.2154 | 0.7215 | 0.0629 | | 27 | −1 |
| 9 | 540 | 1.7289 | 4.5267 | 0.275 | 0.2647 | 0.6931 | 0.0421 | | 28 | −1 |
| 10 | 545 | 2.2138 | 4.7157 | 0.199 | 0.3105 | 0.6615 | 0.0279 | | 28 | −1 |
| 11 | 550 | 2.7156 | 4.85 | 0.1418 | 0.3523 | 0.6292 | 0.0184 | | 29 | −1 |
| 12 | 555 | 3.15 | 4.8289 | 0.0976 | 0.39 | 0.5978 | 0.012 | | 30 | −1 |
| 13 | 560 | 3.5328 | 4.737 | 0.066 | 0.4238 | 0.5682 | 0.0079 | | 32 | 12 |
| 14 | 565 | 3.8512 | 4.5872 | 0.044 | 0.454 | 0.5407 | 0.0051 | | 33 | 14 |
| *i* | λd | $X_{cni}$ | $Y_{cni}$ | $Z_{cni}$ | $x_{cni}$ | $y_{cni}$ | $z_{cni}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0256 | 0.0106 | 0.0 | 0.7048 | 0.2923 | 0.0 | normalized, $Y_w$=100 | | |
| 1 | 495c | 0.0258 | 0.0106 | 0.0004 | 0.6974 | 0.2876 | 0.0121 | −0.1183 | 0.999 | 1.0 |
| 2 | 500c | 0.0271 | 0.0106 | 0.0049 | 0.6342 | 0.2475 | 0.1158 | −0.016 | 0.9892 | 0.9902 |
| 3 | 505c | 0.0287 | 0.0105 | 0.0103 | 0.5778 | 0.2117 | 0.2083 | 0.0024 | 0.9765 | 0.9775 |
| 4 | 510c | 0.0301 | 0.0105 | 0.0148 | 0.5416 | 0.1887 | 0.2677 | 0.0184 | 0.9667 | 0.9677 |
| 5 | 515c | 0.0314 | 0.0104 | 0.0194 | 0.5123 | 0.1701 | 0.3158 | 0.0092 | 0.957 | 0.958 |
| 6 | 520c | 0.0328 | 0.0104 | 0.0239 | 0.488 | 0.1547 | 0.3557 | −0.0075 | 0.9482 | 0.9492 |
| 7 | 525c | 0.0341 | 0.0103 | 0.0284 | 0.4676 | 0.1418 | 0.3891 | −0.0116 | 0.9384 | 0.9394 |
| 8 | 530c | 0.0357 | 0.0103 | 0.0338 | 0.447 | 0.1287 | 0.4229 | −0.0193 | 0.9267 | 0.9277 |
| 9 | 535c | 0.0376 | 0.0102 | 0.0401 | 0.4271 | 0.1161 | 0.4555 | 0.0051 | 0.9121 | 0.913 |
| 10 | 540c | 0.0408 | 0.0101 | 0.051 | 0.4004 | 0.0991 | 0.4994 | −0.0125 | 0.8896 | 0.8906 |
| 11 | 545c | 0.0462 | 0.0099 | 0.069 | 0.3691 | 0.0792 | 0.5508 | −0.0082 | 0.8505 | 0.8515 |
| 12 | 550c | 0.0586 | 0.0095 | 0.1105 | 0.3279 | 0.0531 | 0.6183 | 0.0035 | 0.7597 | 0.7607 |
| 13 | 555c | 0.124 | 0.0072 | 0.3299 | 0.2689 | 0.0156 | 0.7152 | 0.0019 | 0.2851 | 0.2861 |
| 14 | 560c | 0.1633 | 0.0058 | 0.4617 | 0.2588 | 0.0092 | 0.7317 | 3.7095 | 0.0 | 0.0009 |
| 15 | 565c | 0.1633 | 0.0058 | 0.4617 | 0.2588 | 0.0092 | 0.7317 | 7.7374 | 0.0 | 0.0009 |
| 0 | 400 | 0.1634 | 0.0058 | 0.4621 | 0.2588 | 0.0092 | 0.7317 | normalized, $Y_w$=100 | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 19.529 | 20.756 | 16.973 | 0.341 | 0.3624 | 0.2964 | not normalized | | |
| 380 | 780 | 94.088 | 100.0 | 81.776 | 0.341 | 0.3624 | 0.2964 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, normalized, $Y_w$=100**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0256 | 0.0258 | 0.0271 | 0.0287 | 0.0301 | 0.0314 | 0.0328 | 0.0341 | 0.0357 |
| 0.0376 | 0.0408 | 0.0462 | 0.0586 | 0.124 | 0.1633 | 0.1633 | 0.1634 | |
| 0.0106 | 0.0106 | 0.0106 | 0.0105 | 0.0105 | 0.0104 | 0.0104 | 0.0103 | 0.0103 |
| 0.0102 | 0.0101 | 0.0099 | 0.0095 | 0.0072 | 0.0058 | 0.0058 | 0.0058 | |
| 0.0 | 0.0004 | 0.0049 | 0.0103 | 0.0148 | 0.0194 | 0.0239 | 0.0284 | 0.0338 |
| 0.0401 | 0.051 | 0.069 | 0.1105 | 0.3299 | 0.4617 | 0.4617 | 0.4621 | |

CE861−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , P40, not normalized**

| *i* | λd | $X_i$ | $Y_i$ | $Z_i$ | $x_i$ | $y_i$ | $z_i$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.0414 | 0.2949 | 0.4282 | 0.0541 | 0.3856 | 0.56 | | 19 | 42 |
| 1 | 500 | 0.0204 | 0.3529 | 0.3638 | 0.0277 | 0.4787 | 0.4934 | | 20 | −1 |
| 2 | 505 | 0.0094 | 0.4164 | 0.3038 | 0.0129 | 0.5706 | 0.4163 | | 20 | −1 |
| 3 | 510 | 0.0108 | 0.4843 | 0.2494 | 0.0146 | 0.6502 | 0.3349 | | 22 | −1 |
| 4 | 515 | 0.0266 | 0.555 | 0.2013 | 0.034 | 0.7086 | 0.2571 | | 23 | −1 |
| 5 | 520 | 0.0581 | 0.6268 | 0.1598 | 0.0688 | 0.7419 | 0.1891 | | 24 | −1 |
| 6 | 525 | 0.1058 | 0.6977 | 0.1247 | 0.1139 | 0.7515 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.1693 | 0.7653 | 0.0957 | 0.1643 | 0.7427 | 0.0928 | | 26 | −1 |
| 8 | 535 | 0.2471 | 0.8273 | 0.0722 | 0.2154 | 0.7214 | 0.0629 | | 27 | −1 |
| 9 | 540 | 0.3367 | 0.8815 | 0.0535 | 0.2647 | 0.693 | 0.0421 | | 27 | −1 |
| 10 | 545 | 0.4346 | 0.9257 | 0.039 | 0.3105 | 0.6614 | 0.0279 | | 29 | −1 |
| 11 | 550 | 0.5365 | 0.9582 | 0.028 | 0.3523 | 0.6292 | 0.0184 | | 30 | −1 |
| 12 | 555 | 0.6377 | 0.9776 | 0.0197 | 0.3899 | 0.5978 | 0.012 | | 31 | −1 |
| 13 | 560 | 0.7332 | 0.9832 | 0.0137 | 0.4237 | 0.5682 | 0.0079 | | 32 | 7 |
| 14 | 565 | 0.8183 | 0.9746 | 0.0093 | 0.4539 | 0.5407 | 0.0051 | | 32 | 13 |
| *i* | λd | $X_{ci}$ | $Y_{ci}$ | $Z_{ci}$ | $x_{ci}$ | $y_{ci}$ | $z_{ci}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0068 | 0.0028 | 0.0 | 0.6996 | 0.2902 | 0.0 | not normalized | | |
| 1 | 495c | 0.0069 | 0.0028 | 0.0 | 0.6948 | 0.2871 | 0.0079 | −0.0109 | 0.999 | 1.0 |
| 2 | 500c | 0.0069 | 0.0028 | 0.0002 | 0.6856 | 0.2812 | 0.0232 | −0.0004 | 0.997 | 0.998 |
| 3 | 505c | 0.0072 | 0.0028 | 0.0014 | 0.6227 | 0.2412 | 0.1275 | 0.0003 | 0.9804 | 0.9814 |
| 4 | 510c | 0.0075 | 0.0028 | 0.0025 | 0.58 | 0.214 | 0.1983 | 0.0002 | 0.9667 | 0.9677 |
| 5 | 515c | 0.0078 | 0.0027 | 0.0035 | 0.5499 | 0.1948 | 0.2481 | 0.0 | 0.955 | 0.956 |
| 6 | 520c | 0.008 | 0.0027 | 0.0043 | 0.5284 | 0.1811 | 0.2838 | 0.0004 | 0.9453 | 0.9462 |
| 7 | 525c | 0.0083 | 0.0027 | 0.0052 | 0.506 | 0.1668 | 0.3209 | −0.0006 | 0.9345 | 0.9355 |
| 8 | 530c | 0.0085 | 0.0027 | 0.006 | 0.4896 | 0.1564 | 0.3481 | 0.0005 | 0.9238 | 0.9248 |
| 9 | 535c | 0.0088 | 0.0026 | 0.0071 | 0.4696 | 0.1436 | 0.3813 | 0.0005 | 0.9101 | 0.9111 |
| 10 | 540c | 0.0092 | 0.0026 | 0.0087 | 0.4456 | 0.1283 | 0.4212 | 0.0 | 0.8916 | 0.8925 |
| 11 | 545c | 0.0098 | 0.0026 | 0.011 | 0.417 | 0.1101 | 0.4686 | −0.0003 | 0.8623 | 0.8632 |
| 12 | 550c | 0.0109 | 0.0025 | 0.0151 | 0.3812 | 0.0873 | 0.5278 | 0.0002 | 0.8105 | 0.8115 |
| 13 | 555c | 0.0138 | 0.0022 | 0.0258 | 0.3287 | 0.0539 | 0.6149 | 0.0 | 0.6787 | 0.6796 |
| 14 | 560c | 0.0284 | 0.001 | 0.0804 | 0.2586 | 0.0092 | 0.7311 | 0.0157 | 0.0 | 0.0009 |
| 15 | 565c | 0.0284 | 0.001 | 0.0804 | 0.2586 | 0.0092 | 0.7311 | 0.1676 | 0.0 | 0.0009 |
| 0 | 400 | 0.0285 | 0.001 | 0.0805 | 0.2586 | 0.0092 | 0.7312 | not normalized | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 19.681 | 20.516 | 13.582 | 0.3659 | 0.3814 | 0.2525 | not normalized | | |
| 380 | 780 | 95.931 | 100.0 | 66.202 | 0.3659 | 0.3814 | 0.2525 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, not normalized**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0068 | 0.0069 | 0.0069 | 0.0072 | 0.0075 | 0.0078 | 0.008 | 0.0083 | 0.0085 |
| 0.0088 | 0.0092 | 0.0098 | 0.0109 | 0.0138 | 0.0284 | 0.0284 | 0.0285 | |
| 0.0028 | 0.0028 | 0.0028 | 0.0028 | 0.0028 | 0.0027 | 0.0027 | 0.0027 | 0.0027 |
| 0.0026 | 0.0026 | 0.0026 | 0.0025 | 0.0022 | 0.001 | 0.001 | 0.001 | |
| 0.0 | 0.0 | 0.0002 | 0.0014 | 0.0025 | 0.0035 | 0.0043 | 0.0052 | 0.006 |
| 0.0071 | 0.0087 | 0.011 | 0.0151 | 0.0258 | 0.0804 | 0.0804 | 0.0805 | |

CE860−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , P40, normalized, $Y_w$=100**

| *i* | λd | $X_{ni}$ | $Y_{ni}$ | $Z_{ni}$ | $x_{ni}$ | $y_{ni}$ | $z_{ni}$ | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.2018 | 1.4373 | 2.0875 | 0.0541 | 0.3856 | 0.5601 | 19 | 42 |
| 1 | 500 | 0.0995 | 1.7205 | 1.7733 | 0.0277 | 0.4787 | 0.4934 | 19 | −1 |
| 2 | 505 | 0.046 | 2.0299 | 1.481 | 0.0129 | 0.5706 | 0.4163 | 21 | −1 |
| 3 | 510 | 0.053 | 2.3606 | 1.216 | 0.0146 | 0.6503 | 0.335 | 21 | −1 |
| 4 | 515 | 0.1299 | 2.7053 | 0.9816 | 0.034 | 0.7087 | 0.2571 | 23 | −1 |
| 5 | 520 | 0.2833 | 3.0555 | 0.7791 | 0.0688 | 0.7419 | 0.1891 | 24 | −1 |
| 6 | 525 | 0.5158 | 3.4008 | 0.6079 | 0.114 | 0.7516 | 0.1343 | 25 | −1 |
| 7 | 530 | 0.8252 | 3.7304 | 0.4664 | 0.1643 | 0.7427 | 0.0928 | 26 | −1 |
| 8 | 535 | 1.2044 | 4.0327 | 0.3519 | 0.2154 | 0.7215 | 0.0629 | 26 | −1 |
| 9 | 540 | 1.6411 | 4.2968 | 0.261 | 0.2647 | 0.6931 | 0.0421 | 27 | −1 |
| 10 | 545 | 2.1183 | 4.5123 | 0.1904 | 0.3105 | 0.6615 | 0.0279 | 29 | −1 |
| 11 | 550 | 2.6152 | 4.6706 | 0.1365 | 0.3523 | 0.6292 | 0.0184 | 29 | −1 |
| 12 | 555 | 3.1085 | 4.7652 | 0.0963 | 0.39 | 0.5978 | 0.012 | 30 | −1 |
| 13 | 560 | 3.5741 | 4.7923 | 0.0668 | 0.4238 | 0.5682 | 0.0079 | 31 | 7 |
| 14 | 565 | 3.9885 | 4.7507 | 0.0455 | 0.454 | 0.5407 | 0.0051 | 33 | 13 |
| *i* | λd | $X_{cni}$ | $Y_{cni}$ | $Z_{cni}$ | $x_{cni}$ | $y_{cni}$ | $z_{cni}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0336 | 0.0139 | 0.0 | 0.7053 | 0.2925 | 0.0 | normalized, $Y_w$=100 | | |
| 1 | 495c | 0.0337 | 0.0139 | 0.0003 | 0.7004 | 0.2894 | 0.0079 | −0.2608 | 0.999 | 1.0 |
| 2 | 500c | 0.0339 | 0.0139 | 0.0011 | 0.691 | 0.2835 | 0.0234 | −0.0111 | 0.997 | 0.998 |
| 3 | 505c | 0.0355 | 0.0137 | 0.0072 | 0.6269 | 0.2428 | 0.1284 | 0.0087 | 0.9804 | 0.9814 |
| 4 | 510c | 0.037 | 0.0136 | 0.0126 | 0.5835 | 0.2153 | 0.1995 | 0.0061 | 0.9667 | 0.9677 |
| 5 | 515c | 0.0382 | 0.0135 | 0.0172 | 0.553 | 0.1959 | 0.2495 | 0.0001 | 0.955 | 0.956 |
| 6 | 520c | 0.0392 | 0.0134 | 0.021 | 0.5312 | 0.1821 | 0.2852 | 0.011 | 0.9453 | 0.9462 |
| 7 | 525c | 0.0405 | 0.0133 | 0.0256 | 0.5085 | 0.1676 | 0.3225 | −0.0156 | 0.9345 | 0.9355 |
| 8 | 530c | 0.0415 | 0.0132 | 0.0295 | 0.4919 | 0.1571 | 0.3497 | 0.0121 | 0.9238 | 0.9248 |
| 9 | 535c | 0.0429 | 0.0131 | 0.0349 | 0.4716 | 0.1442 | 0.3829 | 0.0122 | 0.9101 | 0.9111 |
| 10 | 540c | 0.045 | 0.0129 | 0.0425 | 0.4473 | 0.1288 | 0.4228 | −0.0021 | 0.8916 | 0.8925 |
| 11 | 545c | 0.0481 | 0.0127 | 0.054 | 0.4184 | 0.1105 | 0.4701 | −0.0091 | 0.8623 | 0.8632 |
| 12 | 550c | 0.0534 | 0.0122 | 0.074 | 0.3823 | 0.0876 | 0.5293 | 0.0069 | 0.8105 | 0.8115 |
| 13 | 555c | 0.0674 | 0.011 | 0.1261 | 0.3293 | 0.054 | 0.6161 | −0.0006 | 0.6787 | 0.6796 |
| 14 | 560c | 0.1388 | 0.0049 | 0.3923 | 0.2588 | 0.0092 | 0.7316 | 0.3732 | 0.0 | 0.0009 |
| 15 | 565c | 0.1388 | 0.0049 | 0.3923 | 0.2588 | 0.0092 | 0.7316 | 3.9827 | 0.0 | 0.0009 |
| 0 | 400 | 0.1389 | 0.0049 | 0.3927 | 0.2588 | 0.0092 | 0.7317 | normalized, $Y_w$=100 | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 19.681 | 20.516 | 13.582 | 0.3659 | 0.3814 | 0.2525 | not normalized | | |
| 380 | 780 | 95.931 | 100.0 | 66.202 | 0.3659 | 0.3814 | 0.2525 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, normalized, $Y_w$=100**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0336 | 0.0337 | 0.0339 | 0.0355 | 0.037 | 0.0382 | 0.0392 | 0.0405 | 0.0415 |
| 0.0429 | 0.045 | 0.0481 | 0.0534 | 0.0674 | 0.1388 | 0.1388 | 0.1389 | |
| 0.0139 | 0.0139 | 0.0139 | 0.0137 | 0.0136 | 0.0135 | 0.0134 | 0.0133 | 0.0132 |
| 0.0131 | 0.0129 | 0.0127 | 0.0122 | 0.011 | 0.0049 | 0.0049 | 0.0049 | |
| 0.0 | 0.0003 | 0.0011 | 0.0072 | 0.0126 | 0.0172 | 0.021 | 0.0256 | 0.0295 |
| 0.0349 | 0.0425 | 0.054 | 0.074 | 0.1261 | 0.3923 | 0.3923 | 0.3927 | |

CE861−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , A00, not normalized**

| *i* | λd | $X_i$ | $Y_i$ | $Z_i$ | $x_i$ | $y_i$ | $z_i$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.0294 | 0.21 | 0.3049 | 0.0541 | 0.3856 | 0.56 | | 18 | 38 |
| 1 | 500 | 0.0149 | 0.2588 | 0.2668 | 0.0277 | 0.4786 | 0.4934 | | 20 | 41 |
| 2 | 505 | 0.0071 | 0.3142 | 0.2293 | 0.0129 | 0.5705 | 0.4162 | | 21 | 49 |
| 3 | 510 | 0.0084 | 0.3759 | 0.1936 | 0.0146 | 0.6502 | 0.3349 | | 22 | −1 |
| 4 | 515 | 0.0212 | 0.4428 | 0.1606 | 0.034 | 0.7086 | 0.2571 | | 23 | −1 |
| 5 | 520 | 0.0476 | 0.5139 | 0.131 | 0.0688 | 0.7418 | 0.1891 | | 24 | −1 |
| 6 | 525 | 0.089 | 0.5873 | 0.1049 | 0.1139 | 0.7515 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.1462 | 0.6612 | 0.0826 | 0.1643 | 0.7427 | 0.0928 | | 26 | −1 |
| 8 | 535 | 0.219 | 0.7333 | 0.0639 | 0.2154 | 0.7214 | 0.0629 | | 27 | −1 |
| 9 | 540 | 0.3059 | 0.8011 | 0.0486 | 0.2647 | 0.693 | 0.0421 | | 27 | −1 |
| 10 | 545 | 0.4047 | 0.8622 | 0.0363 | 0.3105 | 0.6614 | 0.0279 | | 29 | −1 |
| 11 | 550 | 0.5119 | 0.9142 | 0.0267 | 0.3523 | 0.6292 | 0.0184 | | 30 | −1 |
| 12 | 555 | 0.623 | 0.9551 | 0.0193 | 0.3899 | 0.5978 | 0.012 | | 30 | −1 |
| 13 | 560 | 0.7332 | 0.9832 | 0.0137 | 0.4237 | 0.5682 | 0.0079 | | 32 | −1 |
| 14 | 565 | 0.8372 | 0.9971 | 0.0095 | 0.454 | 0.5407 | 0.0051 | | 33 | −1 |
| ***i*** | **λd** | ***X* ci** | ***Y* ci** | ***Z* ci** | ***x* ci** | ***y* ci** | ***z* ci** | ***TNX*** | ***XIE1*** | ***XIE2*** |
| 60 | 700 | 0.0115 | 0.0047 | 0.0 | 0.7025 | 0.2914 | 0.0 | not normalized | | |
| 1 | 495c | 0.0115 | 0.0047 | 0.0 | 0.7014 | 0.2907 | 0.0016 | −0.0247 | 0.999 | 1.0 |
| 2 | 500c | 0.0115 | 0.0047 | 0.0 | 0.7014 | 0.2907 | 0.0016 | −0.0144 | 0.999 | 1.0 |
| 3 | 505c | 0.0115 | 0.0047 | 0.0 | 0.7014 | 0.2907 | 0.0016 | −0.0039 | 0.999 | 1.0 |
| 4 | 510c | 0.0114 | 0.0046 | 0.0008 | 0.6716 | 0.2718 | 0.0506 | −0.0001 | 0.9697 | 0.9707 |
| 5 | 515c | 0.0114 | 0.0044 | 0.0018 | 0.6388 | 0.251 | 0.1045 | 0.0 | 0.9335 | 0.9345 |
| 6 | 520c | 0.0114 | 0.0043 | 0.0027 | 0.6137 | 0.235 | 0.1458 | −0.0002 | 0.9052 | 0.9062 |
| 7 | 525c | 0.0113 | 0.0042 | 0.0033 | 0.5948 | 0.223 | 0.1768 | 0.0 | 0.8818 | 0.8828 |
| 8 | 530c | 0.0113 | 0.0041 | 0.0039 | 0.5784 | 0.2126 | 0.2038 | 0.0002 | 0.8593 | 0.8603 |
| 9 | 535c | 0.0113 | 0.004 | 0.0046 | 0.5614 | 0.2018 | 0.2317 | 0.0 | 0.8359 | 0.8369 |
| 10 | 540c | 0.0112 | 0.0039 | 0.0053 | 0.544 | 0.1907 | 0.2603 | 0.0001 | 0.8105 | 0.8115 |
| 11 | 545c | 0.0112 | 0.0038 | 0.0063 | 0.5227 | 0.1772 | 0.2954 | 0.0 | 0.7783 | 0.7792 |
| 12 | 550c | 0.0111 | 0.0036 | 0.0076 | 0.4961 | 0.1603 | 0.3391 | 0.0 | 0.7333 | 0.7343 |
| 13 | 555c | 0.011 | 0.0032 | 0.0096 | 0.459 | 0.1367 | 0.4 | 0.0 | 0.663 | 0.664 |
| 14 | 560c | 0.0108 | 0.0027 | 0.0133 | 0.4016 | 0.1003 | 0.4943 | 0.0 | 0.5312 | 0.5322 |
| 15 | 565c | 0.0103 | 0.0011 | 0.0232 | 0.2971 | 0.0339 | 0.666 | 0.0 | 0.1855 | 0.1865 |
| 0 | 400 | 0.0101 | 0.0003 | 0.0286 | 0.2582 | 0.0092 | 0.73 | not normalized | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 20.322 | 20.522 | 7.862 | 0.4172 | 0.4213 | 0.1614 | not normalized | | |
| 380 | 780 | 99.027 | 100.0 | 38.312 | 0.4172 | 0.4213 | 0.1614 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, not normalized**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0115 | 0.0115 | 0.0115 | 0.0115 | 0.0114 | 0.0114 | 0.0114 | 0.0113 | 0.0113 |
| 0.0113 | 0.0112 | 0.0112 | 0.0111 | 0.011 | 0.0108 | 0.0103 | 0.0101 | |
| 0.0047 | 0.0047 | 0.0047 | 0.0047 | 0.0046 | 0.0044 | 0.0043 | 0.0042 | 0.0041 |
| 0.004 | 0.0039 | 0.0038 | 0.0036 | 0.0032 | 0.0027 | 0.0011 | 0.0003 | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0008 | 0.0018 | 0.0027 | 0.0033 | 0.0039 |
| 0.0046 | 0.0053 | 0.0063 | 0.0076 | 0.0096 | 0.0133 | 0.0232 | 0.0286 | |

CE860−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , A00, normalized, $Y_w$=100**

| *i* | λd | $X_{ni}$ | $Y_{ni}$ | $Z_{ni}$ | $x_{ni}$ | $y_{ni}$ | $z_{ni}$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.1437 | 1.0233 | 1.4861 | 0.0541 | 0.3856 | 0.5601 | | 19 | 38 |
| 1 | 500 | 0.073 | 1.2613 | 1.3001 | 0.0277 | 0.4787 | 0.4934 | | 19 | 41 |
| 2 | 505 | 0.0347 | 1.5315 | 1.1173 | 0.0129 | 0.5706 | 0.4163 | | 21 | 49 |
| 3 | 510 | 0.0411 | 1.8317 | 0.9435 | 0.0146 | 0.6503 | 0.335 | | 21 | −1 |
| 4 | 515 | 0.1036 | 2.1579 | 0.783 | 0.034 | 0.7087 | 0.2571 | | 22 | −1 |
| 5 | 520 | 0.2322 | 2.5042 | 0.6385 | 0.0688 | 0.7419 | 0.1891 | | 23 | −1 |
| 6 | 525 | 0.4341 | 2.8619 | 0.5116 | 0.114 | 0.7516 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.7127 | 3.2219 | 0.4028 | 0.1643 | 0.7427 | 0.0928 | | 25 | −1 |
| 8 | 535 | 1.0672 | 3.5733 | 0.3118 | 0.2154 | 0.7215 | 0.0629 | | 27 | −1 |
| 9 | 540 | 1.491 | 3.9038 | 0.2371 | 0.2647 | 0.6931 | 0.0421 | | 28 | −1 |
| 10 | 545 | 1.9723 | 4.2014 | 0.1773 | 0.3105 | 0.6615 | 0.0279 | | 29 | −1 |
| 11 | 550 | 2.4945 | 4.455 | 0.1302 | 0.3523 | 0.6292 | 0.0184 | | 29 | −1 |
| 12 | 555 | 3.0361 | 4.6543 | 0.0941 | 0.39 | 0.5978 | 0.012 | | 30 | −1 |
| 13 | 560 | 3.5731 | 4.791 | 0.0668 | 0.4238 | 0.5682 | 0.0079 | | 31 | −1 |
| 14 | 565 | 4.0795 | 4.859 | 0.0466 | 0.454 | 0.5407 | 0.0051 | | 32 | −1 |
| ***i*** | **λd** | ***X* cni** | ***Y* cni** | ***Z* cni** | ***x* cni** | ***y* cni** | ***z* cni** | ***TNX*** | ***XIE1*** | ***XIE2*** |
| 60 | 700 | 0.0562 | 0.0233 | 0.0 | 0.7059 | 0.2928 | 0.0 | normalized, $Y_w$=100 | | |
| 1 | 495c | 0.0562 | 0.0233 | 0.0001 | 0.7048 | 0.2921 | 0.0017 | −0.5874 | 0.999 | 1.0 |
| 2 | 500c | 0.0562 | 0.0233 | 0.0001 | 0.7048 | 0.2921 | 0.0017 | −0.3435 | 0.999 | 1.0 |
| 3 | 505c | 0.0562 | 0.0233 | 0.0001 | 0.7048 | 0.2921 | 0.0017 | −0.0935 | 0.999 | 1.0 |
| 4 | 510c | 0.056 | 0.0226 | 0.0042 | 0.6748 | 0.2731 | 0.0508 | −0.0041 | 0.9697 | 0.9707 |
| 5 | 515c | 0.0557 | 0.0219 | 0.0091 | 0.6417 | 0.2521 | 0.1049 | 0.0001 | 0.9335 | 0.9345 |
| 6 | 520c | 0.0555 | 0.0212 | 0.0132 | 0.6163 | 0.236 | 0.1465 | −0.006 | 0.9052 | 0.9062 |
| 7 | 525c | 0.0554 | 0.0207 | 0.0164 | 0.5973 | 0.2239 | 0.1776 | −0.0014 | 0.8818 | 0.8828 |
| 8 | 530c | 0.0552 | 0.0203 | 0.0194 | 0.5807 | 0.2134 | 0.2046 | 0.0052 | 0.8593 | 0.8603 |
| 9 | 535c | 0.0551 | 0.0198 | 0.0227 | 0.5636 | 0.2026 | 0.2326 | 0.0013 | 0.8359 | 0.8369 |
| 10 | 540c | 0.0549 | 0.0192 | 0.0262 | 0.5461 | 0.1915 | 0.2613 | 0.0046 | 0.8105 | 0.8115 |
| 11 | 545c | 0.0547 | 0.0185 | 0.0309 | 0.5246 | 0.1778 | 0.2965 | −0.0011 | 0.7783 | 0.7792 |
| 12 | 550c | 0.0543 | 0.0175 | 0.0371 | 0.4978 | 0.1608 | 0.3403 | −0.0013 | 0.7333 | 0.7343 |
| 13 | 555c | 0.0539 | 0.016 | 0.0469 | 0.4605 | 0.1372 | 0.4014 | −0.0008 | 0.663 | 0.664 |
| 14 | 560c | 0.053 | 0.0132 | 0.0652 | 0.4028 | 0.1006 | 0.4958 | 0.0017 | 0.5312 | 0.5322 |
| 15 | 565c | 0.0506 | 0.0057 | 0.1134 | 0.2978 | 0.034 | 0.6675 | 0.0002 | 0.1855 | 0.1865 |
| 0 | 400 | 0.0493 | 0.0017 | 0.1394 | 0.2587 | 0.0092 | 0.7314 | normalized, $Y_w$=100 | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 20.322 | 20.522 | 7.862 | 0.4172 | 0.4213 | 0.1614 | not normalized | | |
| 380 | 780 | 99.027 | 100.0 | 38.312 | 0.4172 | 0.4213 | 0.1614 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, normalized, $Y_w$=100**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0562 | 0.0562 | 0.0562 | 0.0562 | 0.056 | 0.0557 | 0.0555 | 0.0554 | 0.0552 |
| 0.0551 | 0.0549 | 0.0547 | 0.0543 | 0.0539 | 0.053 | 0.0506 | 0.0493 | |
| 0.0233 | 0.0233 | 0.0233 | 0.0233 | 0.0226 | 0.0219 | 0.0212 | 0.0207 | 0.0203 |
| 0.0198 | 0.0192 | 0.0185 | 0.0175 | 0.016 | 0.0132 | 0.0057 | 0.0017 | |
| 0.0 | 0.0001 | 0.0001 | 0.0001 | 0.0042 | 0.0091 | 0.0132 | 0.0164 | 0.0194 |
| 0.0227 | 0.0262 | 0.0309 | 0.0371 | 0.0469 | 0.0652 | 0.1134 | 0.1394 | |

CE861−7N



1−000330−F0

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , E00, not normalized**

| *i* | λd | $X_i$ | $Y_i$ | $Z_i$ | $x_i$ | $y_i$ | $z_i$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.0518 | 0.3694 | 0.5364 | 0.0541 | 0.3856 | 0.56 | | 19 | −1 |
| 1 | 500 | 0.025 | 0.4324 | 0.4457 | 0.0277 | 0.4787 | 0.4934 | | 20 | −1 |
| 2 | 505 | 0.0113 | 0.4994 | 0.3643 | 0.0129 | 0.5706 | 0.4163 | | 21 | −1 |
| 3 | 510 | 0.0127 | 0.569 | 0.2931 | 0.0146 | 0.6502 | 0.3349 | | 22 | −1 |
| 4 | 515 | 0.0307 | 0.6395 | 0.232 | 0.034 | 0.7086 | 0.2571 | | 23 | −1 |
| 5 | 520 | 0.0657 | 0.7088 | 0.1807 | 0.0688 | 0.7419 | 0.1891 | | 23 | −1 |
| 6 | 525 | 0.1175 | 0.7749 | 0.1385 | 0.1139 | 0.7515 | 0.1343 | | 24 | −1 |
| 7 | 530 | 0.1848 | 0.8356 | 0.1044 | 0.1643 | 0.7427 | 0.0928 | | 25 | −1 |
| 8 | 535 | 0.2654 | 0.8886 | 0.0775 | 0.2154 | 0.7214 | 0.0629 | | 26 | −1 |
| 9 | 540 | 0.356 | 0.9321 | 0.0566 | 0.2647 | 0.693 | 0.0421 | | 27 | −1 |
| 10 | 545 | 0.4527 | 0.9643 | 0.0406 | 0.3105 | 0.6614 | 0.0279 | | 28 | −1 |
| 11 | 550 | 0.5509 | 0.984 | 0.0287 | 0.3523 | 0.6292 | 0.0184 | | 30 | −1 |
| 12 | 555 | 0.646 | 0.9904 | 0.02 | 0.3899 | 0.5978 | 0.012 | | 30 | −1 |
| 13 | 560 | 0.7332 | 0.9832 | 0.0137 | 0.4237 | 0.5682 | 0.0079 | | 31 | 12 |
| 14 | 565 | 0.8082 | 0.9627 | 0.0092 | 0.4539 | 0.5407 | 0.0051 | | 32 | 14 |
| *i* | λd | $X_{ci}$ | $Y_{ci}$ | $Z_{ci}$ | $x_{ci}$ | $y_{ci}$ | $z_{ci}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0058 | 0.0024 | 0.0 | 0.6983 | 0.2896 | 0.0 | not normalized | | |
| 1 | 495c | 0.006 | 0.0024 | 0.0005 | 0.6606 | 0.2656 | 0.0627 | −0.0003 | 0.997 | 0.998 |
| 2 | 500c | 0.0064 | 0.0024 | 0.002 | 0.5852 | 0.2175 | 0.1882 | 0.0016 | 0.9882 | 0.9892 |
| 3 | 505c | 0.0069 | 0.0024 | 0.0036 | 0.5329 | 0.1841 | 0.2752 | 0.0007 | 0.9804 | 0.9814 |
| 4 | 510c | 0.0073 | 0.0024 | 0.0047 | 0.5031 | 0.1651 | 0.3248 | 0.0013 | 0.9746 | 0.9755 |
| 5 | 515c | 0.0077 | 0.0024 | 0.0058 | 0.4789 | 0.1497 | 0.365 | 0.001 | 0.9687 | 0.9697 |
| 6 | 520c | 0.008 | 0.0024 | 0.007 | 0.4589 | 0.1369 | 0.3984 | 0.0006 | 0.9628 | 0.9638 |
| 7 | 525c | 0.0084 | 0.0024 | 0.0081 | 0.442 | 0.1261 | 0.4265 | 0.0014 | 0.957 | 0.958 |
| 8 | 530c | 0.0089 | 0.0024 | 0.0096 | 0.4232 | 0.1141 | 0.4578 | 0.001 | 0.9492 | 0.9501 |
| 9 | 535c | 0.0096 | 0.0024 | 0.0119 | 0.4009 | 0.0999 | 0.4949 | −0.001 | 0.9384 | 0.9394 |
| 10 | 540c | 0.0106 | 0.0024 | 0.015 | 0.3786 | 0.0857 | 0.5321 | −0.0004 | 0.9228 | 0.9238 |
| 11 | 545c | 0.0125 | 0.0024 | 0.0207 | 0.3503 | 0.0676 | 0.5792 | −0.0004 | 0.8935 | 0.8945 |
| 12 | 550c | 0.017 | 0.0024 | 0.0347 | 0.3141 | 0.0445 | 0.6394 | −0.0001 | 0.8212 | 0.8222 |
| 13 | 555c | 0.05 | 0.0024 | 0.1366 | 0.2645 | 0.0129 | 0.722 | 0.0 | 0.2978 | 0.2988 |
| 14 | 560c | 0.0687 | 0.0024 | 0.1943 | 0.2587 | 0.0092 | 0.7315 | 0.3454 | 0.0 | 0.0009 |
| 15 | 565c | 0.0687 | 0.0024 | 0.1943 | 0.2587 | 0.0092 | 0.7315 | 0.7111 | 0.0 | 0.0009 |
| 0 | 400 | 0.0688 | 0.0024 | 0.1945 | 0.2587 | 0.0092 | 0.7316 | not normalized | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 21.179 | 21.179 | 21.179 | 0.3333 | 0.3333 | 0.3333 | not normalized | | |
| 380 | 780 | 99.999 | 99.999 | 99.999 | 0.3333 | 0.3333 | 0.3333 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, not normalized**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0058 | 0.006 | 0.0064 | 0.0069 | 0.0073 | 0.0077 | 0.008 | 0.0084 | 0.0089 |
| 0.0096 | 0.0106 | 0.0125 | 0.017 | 0.05 | 0.0687 | 0.0687 | 0.0688 | |
| 0.0024 | 0.0024 | 0.0024 | 0.0024 | 0.0024 | 0.0024 | 0.0024 | 0.0024 | 0.0024 |
| 0.0024 | 0.0024 | 0.0024 | 0.0024 | 0.0024 | 0.0024 | 0.0024 | 0.0024 | |
| 0.0 | 0.0005 | 0.002 | 0.0036 | 0.0047 | 0.0058 | 0.007 | 0.0081 | 0.0096 |
| 0.0119 | 0.015 | 0.0207 | 0.0347 | 0.1366 | 0.1943 | 0.1943 | 0.1945 | |

CE860−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , E00, normalized, $Y_w$=100**

| *i* | λd | $X_{ni}$ | $Y_{ni}$ | $Z_{ni}$ | $x_{ni}$ | $y_{ni}$ | $z_{ni}$ | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.2449 | 1.7441 | 2.533 | 0.0541 | 0.3856 | 0.5601 | 19 | −1 |
| 1 | 500 | 0.1181 | 2.0416 | 2.1044 | 0.0277 | 0.4787 | 0.4934 | 20 | −1 |
| 2 | 505 | 0.0535 | 2.358 | 1.7204 | 0.0129 | 0.5706 | 0.4163 | 21 | −1 |
| 3 | 510 | 0.0603 | 2.6866 | 1.384 | 0.0146 | 0.6503 | 0.335 | 22 | −1 |
| 4 | 515 | 0.145 | 3.0193 | 1.0955 | 0.034 | 0.7087 | 0.2571 | 23 | −1 |
| 5 | 520 | 0.3104 | 3.3468 | 0.8533 | 0.0688 | 0.7419 | 0.1891 | 23 | −1 |
| 6 | 525 | 0.555 | 3.6589 | 0.654 | 0.114 | 0.7516 | 0.1343 | 25 | −1 |
| 7 | 530 | 0.8728 | 3.9452 | 0.4933 | 0.1643 | 0.7427 | 0.0928 | 26 | −1 |
| 8 | 535 | 1.2531 | 4.1957 | 0.3661 | 0.2154 | 0.7215 | 0.0629 | 26 | −1 |
| 9 | 540 | 1.6809 | 4.4009 | 0.2673 | 0.2647 | 0.6931 | 0.0421 | 28 | −1 |
| 10 | 545 | 2.1374 | 4.5531 | 0.1921 | 0.3105 | 0.6615 | 0.0279 | 28 | −1 |
| 11 | 550 | 2.6015 | 4.6461 | 0.1358 | 0.3523 | 0.6292 | 0.0184 | 30 | −1 |
| 12 | 555 | 3.0504 | 4.6762 | 0.0945 | 0.39 | 0.5978 | 0.012 | 31 | −1 |
| 13 | 560 | 3.4621 | 4.6422 | 0.0647 | 0.4238 | 0.5682 | 0.0079 | 32 | 12 |
| 14 | 565 | 3.8161 | 4.5454 | 0.0436 | 0.454 | 0.5407 | 0.0051 | 32 | 14 |
| *i* | λd | $X_{cni}$ | $Y_{cni}$ | $Z_{cni}$ | $x_{cni}$ | $y_{cni}$ | $z_{cni}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0274 | 0.0114 | 0.0 | 0.7049 | 0.2924 | 0.0 | normalized, $Y_w$=100 | | |
| 1 | 495c | 0.0283 | 0.0114 | 0.0026 | 0.6664 | 0.2679 | 0.0632 | −0.0067 | 0.997 | 0.998 |
| 2 | 500c | 0.0306 | 0.0114 | 0.0098 | 0.5894 | 0.219 | 0.1896 | 0.0368 | 0.9882 | 0.9892 |
| 3 | 505c | 0.033 | 0.0114 | 0.017 | 0.5361 | 0.1852 | 0.2769 | 0.0163 | 0.9804 | 0.9814 |
| 4 | 510c | 0.0347 | 0.0114 | 0.0224 | 0.5059 | 0.166 | 0.3265 | 0.0307 | 0.9746 | 0.9755 |
| 5 | 515c | 0.0364 | 0.0114 | 0.0278 | 0.4813 | 0.1504 | 0.3668 | 0.0232 | 0.9687 | 0.9697 |
| 6 | 520c | 0.0382 | 0.0114 | 0.0331 | 0.4609 | 0.1375 | 0.4002 | 0.0154 | 0.9628 | 0.9638 |
| 7 | 525c | 0.0399 | 0.0114 | 0.0385 | 0.4438 | 0.1266 | 0.4283 | 0.0318 | 0.957 | 0.958 |
| 8 | 530c | 0.0423 | 0.0114 | 0.0457 | 0.4248 | 0.1146 | 0.4595 | 0.0232 | 0.9492 | 0.9501 |
| 9 | 535c | 0.0457 | 0.0114 | 0.0565 | 0.4022 | 0.1002 | 0.4965 | −0.0234 | 0.9384 | 0.9394 |
| 10 | 540c | 0.0504 | 0.0114 | 0.0708 | 0.3796 | 0.0859 | 0.5336 | −0.0097 | 0.9228 | 0.9238 |
| 11 | 545c | 0.0591 | 0.0114 | 0.0977 | 0.3511 | 0.0678 | 0.5804 | −0.0108 | 0.8935 | 0.8945 |
| 12 | 550c | 0.0806 | 0.0114 | 0.1641 | 0.3145 | 0.0446 | 0.6404 | −0.0036 | 0.8212 | 0.8222 |
| 13 | 555c | 0.2363 | 0.0115 | 0.645 | 0.2646 | 0.0129 | 0.7223 | −0.0001 | 0.2978 | 0.2988 |
| 14 | 560c | 0.3246 | 0.0116 | 0.9178 | 0.2588 | 0.0092 | 0.7317 | 7.7004 | 0.0 | 0.0009 |
| 15 | 565c | 0.3246 | 0.0116 | 0.9178 | 0.2588 | 0.0092 | 0.7317 | 15.8519 | 0.0 | 0.0009 |
| 0 | 400 | 0.3249 | 0.0116 | 0.9187 | 0.2588 | 0.0092 | 0.7318 | normalized, $Y_w$=100 | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 21.179 | 21.179 | 21.179 | 0.3333 | 0.3333 | 0.3333 | not normalized | | |
| 380 | 780 | 99.999 | 99.999 | 99.999 | 0.3333 | 0.3333 | 0.3333 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, normalized, $Y_w$=100**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0274 | 0.0283 | 0.0306 | 0.033 | 0.0347 | 0.0364 | 0.0382 | 0.0399 | 0.0423 |
| 0.0457 | 0.0504 | 0.0591 | 0.0806 | 0.2363 | 0.3246 | 0.3246 | 0.3249 | |
| 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0114 |
| 0.0114 | 0.0114 | 0.0114 | 0.0114 | 0.0115 | 0.0116 | 0.0116 | 0.0116 | |
| 0.0 | 0.0026 | 0.0098 | 0.017 | 0.0224 | 0.0278 | 0.0331 | 0.0385 | 0.0457 |
| 0.0565 | 0.0708 | 0.0977 | 0.1641 | 0.645 | 0.9178 | 0.9178 | 0.9187 | |

CE861−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , C00, not normalized**

| *i* | λd | $X_i$ | $Y_i$ | $Z_i$ | $x_i$ | $y_i$ | $z_i$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.0606 | 0.4318 | 0.6271 | 0.0541 | 0.3856 | 0.56 | | 19 | −1 |
| 1 | 500 | 0.028 | 0.4847 | 0.4996 | 0.0277 | 0.4787 | 0.4934 | | 19 | −1 |
| 2 | 505 | 0.0121 | 0.5343 | 0.3898 | 0.0129 | 0.5706 | 0.4163 | | 21 | −1 |
| 3 | 510 | 0.013 | 0.5821 | 0.2998 | 0.0146 | 0.6502 | 0.3349 | | 22 | −1 |
| 4 | 515 | 0.0303 | 0.6318 | 0.2292 | 0.034 | 0.7086 | 0.2571 | | 23 | −1 |
| 5 | 520 | 0.0637 | 0.6868 | 0.1751 | 0.0688 | 0.7419 | 0.1891 | | 24 | −1 |
| 6 | 525 | 0.1137 | 0.75 | 0.134 | 0.1139 | 0.7515 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.1811 | 0.8188 | 0.1023 | 0.1643 | 0.7427 | 0.0928 | | 25 | −1 |
| 8 | 535 | 0.2652 | 0.8881 | 0.0775 | 0.2154 | 0.7214 | 0.0629 | | 26 | −1 |
| 9 | 540 | 0.3634 | 0.9516 | 0.0578 | 0.2647 | 0.693 | 0.0421 | | 27 | −1 |
| 10 | 545 | 0.4705 | 1.0024 | 0.0423 | 0.3105 | 0.6614 | 0.0279 | | 28 | −1 |
| 11 | 550 | 0.5796 | 1.0352 | 0.0302 | 0.3523 | 0.6292 | 0.0184 | | 29 | −1 |
| 12 | 555 | 0.6827 | 1.0465 | 0.0211 | 0.39 | 0.5978 | 0.012 | | 31 | 9 |
| 13 | 560 | 0.7721 | 1.0353 | 0.0144 | 0.4237 | 0.5682 | 0.0079 | | 31 | 12 |
| 14 | 565 | 0.8414 | 1.0022 | 0.0096 | 0.454 | 0.5407 | 0.0051 | | 32 | 14 |
| *i* | λd | $X_{ci}$ | $Y_{ci}$ | $Z_{ci}$ | $x_{ci}$ | $y_{ci}$ | $z_{ci}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0044 | 0.0018 | 0.0 | 0.6957 | 0.2885 | 0.0 | not normalized | | |
| 1 | 495c | 0.0047 | 0.0018 | 0.001 | 0.6128 | 0.2356 | 0.1386 | −0.0007 | 0.9912 | 0.9921 |
| 2 | 500c | 0.0052 | 0.0018 | 0.0025 | 0.5402 | 0.1892 | 0.2602 | −0.0007 | 0.9794 | 0.9804 |
| 3 | 505c | 0.0056 | 0.0018 | 0.0037 | 0.4983 | 0.1624 | 0.3303 | −0.0009 | 0.9697 | 0.9707 |
| 4 | 510c | 0.0059 | 0.0018 | 0.0046 | 0.4724 | 0.1458 | 0.3736 | −0.0002 | 0.9619 | 0.9628 |
| 5 | 515c | 0.0062 | 0.0018 | 0.0056 | 0.4513 | 0.1323 | 0.409 | −0.0001 | 0.9541 | 0.955 |
| 6 | 520c | 0.0065 | 0.0018 | 0.0066 | 0.4337 | 0.1211 | 0.4385 | 0.0003 | 0.9453 | 0.9462 |
| 7 | 525c | 0.0069 | 0.0018 | 0.0078 | 0.4154 | 0.1094 | 0.469 | 0.0 | 0.9365 | 0.9375 |
| 8 | 530c | 0.0073 | 0.0018 | 0.0092 | 0.3976 | 0.098 | 0.4988 | 0.0002 | 0.9238 | 0.9248 |
| 9 | 535c | 0.008 | 0.0018 | 0.0114 | 0.3769 | 0.0848 | 0.5336 | −0.0002 | 0.9072 | 0.9082 |
| 10 | 540c | 0.0091 | 0.0018 | 0.0147 | 0.3536 | 0.0699 | 0.5724 | 0.0001 | 0.8789 | 0.8798 |
| 11 | 545c | 0.0113 | 0.0017 | 0.0217 | 0.3242 | 0.0511 | 0.6216 | −0.0001 | 0.8232 | 0.8242 |
| 12 | 550c | 0.0183 | 0.0017 | 0.0436 | 0.2869 | 0.0272 | 0.6842 | 0.0001 | 0.6445 | 0.6455 |
| 13 | 555c | 0.0435 | 0.0015 | 0.123 | 0.2587 | 0.0092 | 0.7314 | 0.1055 | 0.0 | 0.0009 |
| 14 | 560c | 0.0435 | 0.0015 | 0.123 | 0.2587 | 0.0092 | 0.7314 | 0.3608 | 0.0 | 0.0009 |
| 15 | 565c | 0.0435 | 0.0015 | 0.123 | 0.2587 | 0.0092 | 0.7314 | 0.5966 | 0.0 | 0.0009 |
| 0 | 400 | 0.0435 | 0.0015 | 0.1231 | 0.2587 | 0.0092 | 0.7314 | not normalized | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 21.321 | 21.356 | 24.189 | 0.3188 | 0.3193 | 0.3617 | not normalized | | |
| 380 | 780 | 99.837 | 99.999 | 113.264 | 0.3188 | 0.3193 | 0.3617 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, not normalized**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0044 | 0.0047 | 0.0052 | 0.0056 | 0.0059 | 0.0062 | 0.0065 | 0.0069 | 0.0073 |
| 0.008 | 0.0091 | 0.0113 | 0.0183 | 0.0435 | 0.0435 | 0.0435 | 0.0435 | |
| 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 |
| 0.0018 | 0.0018 | 0.0017 | 0.0017 | 0.0015 | 0.0015 | 0.0015 | 0.0015 | |
| 0.0 | 0.001 | 0.0025 | 0.0037 | 0.0046 | 0.0056 | 0.0066 | 0.0078 | 0.0092 |
| 0.0114 | 0.0147 | 0.0217 | 0.0436 | 0.123 | 0.123 | 0.123 | 0.1231 | |

CE860−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , C00, normalized, $Y_w$=100**

| *i* | λd | $X_{ni}$ | $Y_{ni}$ | $Z_{ni}$ | $x_{ni}$ | $y_{ni}$ | $z_{ni}$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.284 | 2.022 | 2.9366 | 0.0541 | 0.3856 | 0.5601 | | 19 | −1 |
| 1 | 500 | 0.1313 | 2.2698 | 2.3396 | 0.0277 | 0.4787 | 0.4934 | | 20 | −1 |
| 2 | 505 | 0.0568 | 2.5018 | 1.8253 | 0.0129 | 0.5706 | 0.4163 | | 21 | −1 |
| 3 | 510 | 0.0612 | 2.7257 | 1.4041 | 0.0146 | 0.6503 | 0.335 | | 22 | −1 |
| 4 | 515 | 0.1421 | 2.9588 | 1.0736 | 0.034 | 0.7087 | 0.2571 | | 22 | −1 |
| 5 | 520 | 0.2983 | 3.2162 | 0.82 | 0.0688 | 0.7419 | 0.1891 | | 24 | −1 |
| 6 | 525 | 0.5327 | 3.5118 | 0.6278 | 0.114 | 0.7516 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.8482 | 3.8344 | 0.4794 | 0.1643 | 0.7427 | 0.0928 | | 26 | −1 |
| 8 | 535 | 1.242 | 4.1585 | 0.3628 | 0.2154 | 0.7215 | 0.0629 | | 27 | −1 |
| 9 | 540 | 1.702 | 4.4563 | 0.2707 | 0.2647 | 0.6931 | 0.0421 | | 27 | −1 |
| 10 | 545 | 2.2035 | 4.6938 | 0.198 | 0.3105 | 0.6615 | 0.0279 | | 29 | −1 |
| 11 | 550 | 2.7141 | 4.8473 | 0.1417 | 0.3523 | 0.6292 | 0.0184 | | 29 | −1 |
| 12 | 555 | 3.1968 | 4.9005 | 0.099 | 0.39 | 0.5978 | 0.012 | | 31 | 9 |
| 13 | 560 | 3.6155 | 4.8479 | 0.0676 | 0.4238 | 0.5682 | 0.0079 | | 31 | 12 |
| 14 | 565 | 3.9402 | 4.6931 | 0.045 | 0.454 | 0.5407 | 0.0051 | | 32 | 14 |
| *i* | λd | $X_{cni}$ | $Y_{cni}$ | $Z_{cni}$ | $x_{cni}$ | $y_{cni}$ | $z_{cni}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0207 | 0.0086 | 0.0 | 0.7044 | 0.2921 | 0.0 | normalized, $Y_w$=100 | | |
| 1 | 495c | 0.0224 | 0.0086 | 0.005 | 0.6191 | 0.238 | 0.14 | −0.0168 | 0.9912 | 0.9921 |
| 2 | 500c | 0.0245 | 0.0085 | 0.0118 | 0.5446 | 0.1907 | 0.2623 | −0.0162 | 0.9794 | 0.9804 |
| 3 | 505c | 0.0263 | 0.0085 | 0.0174 | 0.5018 | 0.1635 | 0.3326 | −0.0205 | 0.9697 | 0.9707 |
| 4 | 510c | 0.0277 | 0.0085 | 0.0219 | 0.4754 | 0.1468 | 0.376 | −0.0054 | 0.9619 | 0.9628 |
| 5 | 515c | 0.0292 | 0.0085 | 0.0264 | 0.4539 | 0.1331 | 0.4114 | −0.0023 | 0.9541 | 0.955 |
| 6 | 520c | 0.0306 | 0.0085 | 0.0309 | 0.4359 | 0.1217 | 0.4408 | 0.0078 | 0.9453 | 0.9462 |
| 7 | 525c | 0.0324 | 0.0085 | 0.0366 | 0.4174 | 0.1099 | 0.4713 | −0.0007 | 0.9365 | 0.9375 |
| 8 | 530c | 0.0345 | 0.0085 | 0.0433 | 0.3993 | 0.0984 | 0.5009 | 0.0048 | 0.9238 | 0.9248 |
| 9 | 535c | 0.0377 | 0.0085 | 0.0535 | 0.3782 | 0.0851 | 0.5355 | −0.0059 | 0.9072 | 0.9082 |
| 10 | 540c | 0.0428 | 0.0084 | 0.0692 | 0.3547 | 0.0701 | 0.5742 | 0.0024 | 0.8789 | 0.8798 |
| 11 | 545c | 0.0531 | 0.0083 | 0.1019 | 0.325 | 0.0512 | 0.623 | −0.004 | 0.8232 | 0.8242 |
| 12 | 550c | 0.0857 | 0.0081 | 0.2044 | 0.2872 | 0.0273 | 0.685 | 0.0032 | 0.6445 | 0.6455 |
| 13 | 555c | 0.2038 | 0.0072 | 0.5761 | 0.2588 | 0.0092 | 0.7317 | 2.3136 | 0.0 | 0.0009 |
| 14 | 560c | 0.2038 | 0.0072 | 0.5761 | 0.2588 | 0.0092 | 0.7317 | 7.9118 | 0.0 | 0.0009 |
| 15 | 565c | 0.2038 | 0.0072 | 0.5761 | 0.2588 | 0.0092 | 0.7317 | 13.0828 | 0.0 | 0.0009 |
| 0 | 400 | 0.204 | 0.0072 | 0.5767 | 0.2588 | 0.0092 | 0.7317 | normalized, $Y_w$=100 | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 21.321 | 21.356 | 24.189 | 0.3188 | 0.3193 | 0.3617 | not normalized | | |
| 380 | 780 | 99.837 | 99.999 | 113.264 | 0.3188 | 0.3193 | 0.3617 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, normalized, $Y_w$=100**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0207 | 0.0224 | 0.0245 | 0.0263 | 0.0277 | 0.0292 | 0.0306 | 0.0324 | 0.0345 |
| 0.0377 | 0.0428 | 0.0531 | 0.0857 | 0.2038 | 0.2038 | 0.2038 | 0.204 | |
| 0.0086 | 0.0086 | 0.0085 | 0.0085 | 0.0085 | 0.0085 | 0.0085 | 0.0085 | 0.0085 |
| 0.0085 | 0.0084 | 0.0083 | 0.0081 | 0.0072 | 0.0072 | 0.0072 | 0.0072 | |
| 0.0 | 0.005 | 0.0118 | 0.0174 | 0.0219 | 0.0264 | 0.0309 | 0.0366 | 0.0433 |
| 0.0535 | 0.0692 | 0.1019 | 0.2044 | 0.5761 | 0.5761 | 0.5761 | 0.5767 | |

CE861−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , P00, not normalized**

| *i* | λd | $X_i$ | $Y_i$ | $Z_i$ | $x_i$ | $y_i$ | $z_i$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.0458 | 0.3265 | 0.4742 | 0.0541 | 0.3856 | 0.56 | | 18 | 50 |
| 1 | 500 | 0.0223 | 0.386 | 0.3979 | 0.0277 | 0.4787 | 0.4934 | | 20 | −1 |
| 2 | 505 | 0.0102 | 0.4503 | 0.3286 | 0.0129 | 0.5706 | 0.4163 | | 20 | −1 |
| 3 | 510 | 0.0116 | 0.5182 | 0.2669 | 0.0146 | 0.6502 | 0.3349 | | 22 | −1 |
| 4 | 515 | 0.0282 | 0.5881 | 0.2133 | 0.034 | 0.7086 | 0.2571 | | 23 | −1 |
| 5 | 520 | 0.061 | 0.6582 | 0.1678 | 0.0688 | 0.7419 | 0.1891 | | 24 | −1 |
| 6 | 525 | 0.1102 | 0.7265 | 0.1298 | 0.1139 | 0.7515 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.1749 | 0.7908 | 0.0988 | 0.1643 | 0.7427 | 0.0928 | | 26 | −1 |
| 8 | 535 | 0.2535 | 0.8489 | 0.074 | 0.2154 | 0.7214 | 0.0629 | | 26 | −1 |
| 9 | 540 | 0.3433 | 0.8988 | 0.0546 | 0.2647 | 0.693 | 0.0421 | | 27 | −1 |
| 10 | 545 | 0.4405 | 0.9385 | 0.0396 | 0.3105 | 0.6614 | 0.0279 | | 28 | −1 |
| 11 | 550 | 0.5411 | 0.9664 | 0.0282 | 0.3523 | 0.6292 | 0.0184 | | 29 | −1 |
| 12 | 555 | 0.6403 | 0.9815 | 0.0198 | 0.3899 | 0.5978 | 0.012 | | 31 | −1 |
| 13 | 560 | 0.7332 | 0.9832 | 0.0137 | 0.4237 | 0.5682 | 0.0079 | | 32 | 9 |
| 14 | 565 | 0.8154 | 0.9713 | 0.0093 | 0.4539 | 0.5407 | 0.0051 | | 32 | 13 |
| *i* | λd | $X_{ci}$ | $Y_{ci}$ | $Z_{ci}$ | $x_{ci}$ | $y_{ci}$ | $z_{ci}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0072 | 0.003 | 0.0 | 0.7 | 0.2903 | 0.0 | not normalized | | |
| 1 | 495c | 0.0073 | 0.003 | 0.0001 | 0.6922 | 0.2854 | 0.0128 | −0.005 | 0.999 | 1.0 |
| 2 | 500c | 0.0077 | 0.003 | 0.0014 | 0.6269 | 0.2438 | 0.1211 | −0.0006 | 0.9892 | 0.9902 |
| 3 | 505c | 0.0081 | 0.0029 | 0.0028 | 0.5778 | 0.2125 | 0.2024 | 0.0009 | 0.9785 | 0.9794 |
| 4 | 510c | 0.0085 | 0.0029 | 0.0042 | 0.5396 | 0.1882 | 0.2657 | 0.0001 | 0.9687 | 0.9697 |
| 5 | 515c | 0.0088 | 0.0029 | 0.0052 | 0.5147 | 0.1723 | 0.3071 | 0.0004 | 0.9609 | 0.9619 |
| 6 | 520c | 0.0091 | 0.0029 | 0.0063 | 0.4935 | 0.1588 | 0.3422 | 0.0001 | 0.9531 | 0.9541 |
| 7 | 525c | 0.0095 | 0.0029 | 0.0074 | 0.4753 | 0.1472 | 0.3724 | 0.0003 | 0.9453 | 0.9462 |
| 8 | 530c | 0.0099 | 0.0029 | 0.0088 | 0.4558 | 0.1348 | 0.4047 | −0.0004 | 0.9365 | 0.9375 |
| 9 | 535c | 0.0104 | 0.0029 | 0.0104 | 0.4362 | 0.1223 | 0.4372 | −0.0005 | 0.9248 | 0.9257 |
| 10 | 540c | 0.011 | 0.0029 | 0.0126 | 0.4148 | 0.1087 | 0.4726 | 0.0004 | 0.9082 | 0.9091 |
| 11 | 545c | 0.0122 | 0.0028 | 0.0164 | 0.3866 | 0.0907 | 0.5194 | 0.0 | 0.8818 | 0.8828 |
| 12 | 550c | 0.0144 | 0.0028 | 0.0237 | 0.3512 | 0.0682 | 0.578 | 0.0003 | 0.8281 | 0.8291 |
| 13 | 555c | 0.0213 | 0.0025 | 0.0468 | 0.3016 | 0.0365 | 0.6603 | 0.0 | 0.663 | 0.664 |
| 14 | 560c | 0.0491 | 0.0017 | 0.1388 | 0.2587 | 0.0092 | 0.7314 | 0.0973 | 0.0 | 0.0009 |
| 15 | 565c | 0.0491 | 0.0017 | 0.1388 | 0.2587 | 0.0092 | 0.7314 | 0.3626 | 0.0 | 0.0009 |
| 0 | 400 | 0.0491 | 0.0017 | 0.1389 | 0.2587 | 0.0092 | 0.7314 | not normalized | | |

**Tristimulus values of reference illuminant**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 380 | 780 | 20.749 | 20.958 | 17.226 | 0.352 | 0.3556 | 0.2923 | not normalized |
| 380 | 780 | 99.0 | 100.0 | 82.193 | 0.352 | 0.3556 | 0.2923 | normalized, $Y_w$=100 |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, not normalized**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0072 | 0.0073 | 0.0077 | 0.0081 | 0.0085 | 0.0088 | 0.0091 | 0.0095 | 0.0099 |
| 0.0104 | 0.011 | 0.0122 | 0.0144 | 0.0213 | 0.0491 | 0.0491 | 0.0491 | |
| 0.003 | 0.003 | 0.003 | 0.0029 | 0.0029 | 0.0029 | 0.0029 | 0.0029 | 0.0029 |
| 0.0029 | 0.0029 | 0.0028 | 0.0028 | 0.0025 | 0.0017 | 0.0017 | 0.0017 | |
| 0.0 | 0.0001 | 0.0014 | 0.0028 | 0.0042 | 0.0052 | 0.0063 | 0.0074 | 0.0088 |
| 0.0104 | 0.0126 | 0.0164 | 0.0237 | 0.0468 | 0.1388 | 0.1388 | 0.1389 | |

CE860−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , P00, normalized, $Y_w$=100**

| *i* | λd | $X_{ni}$ | $Y_{ni}$ | $Z_{ni}$ | $x_{ni}$ | $y_{ni}$ | $z_{ni}$ | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.2188 | 1.5579 | 2.2626 | 0.0541 | 0.3856 | 0.5601 | 19 | 50 |
| 1 | 500 | 0.1066 | 1.8421 | 1.8988 | 0.0277 | 0.4787 | 0.4934 | 20 | −1 |
| 2 | 505 | 0.0487 | 2.1489 | 1.5678 | 0.0129 | 0.5706 | 0.4163 | 21 | −1 |
| 3 | 510 | 0.0555 | 2.4726 | 1.2737 | 0.0146 | 0.6503 | 0.335 | 21 | −1 |
| 4 | 515 | 0.1347 | 2.806 | 1.0181 | 0.034 | 0.7087 | 0.2571 | 22 | −1 |
| 5 | 520 | 0.2912 | 3.1405 | 0.8007 | 0.0688 | 0.7419 | 0.1891 | 24 | −1 |
| 6 | 525 | 0.5258 | 3.4664 | 0.6196 | 0.114 | 0.7516 | 0.1343 | 25 | −1 |
| 7 | 530 | 0.8347 | 3.7733 | 0.4718 | 0.1643 | 0.7427 | 0.0928 | 25 | −1 |
| 8 | 535 | 1.2098 | 4.0507 | 0.3534 | 0.2154 | 0.7215 | 0.0629 | 27 | −1 |
| 9 | 540 | 1.638 | 4.2886 | 0.2605 | 0.2647 | 0.6931 | 0.0421 | 28 | −1 |
| 10 | 545 | 2.1021 | 4.4779 | 0.1889 | 0.3105 | 0.6615 | 0.0279 | 29 | −1 |
| 11 | 550 | 2.582 | 4.6113 | 0.1348 | 0.3523 | 0.6292 | 0.0184 | 30 | −1 |
| 12 | 555 | 3.0551 | 4.6834 | 0.0946 | 0.39 | 0.5978 | 0.012 | 30 | −1 |
| 13 | 560 | 3.4986 | 4.6912 | 0.0654 | 0.4238 | 0.5682 | 0.0079 | 31 | 9 |
| 14 | 565 | 3.8909 | 4.6344 | 0.0444 | 0.454 | 0.5407 | 0.0051 | 32 | 13 |
| *i* | λd | $X_{cni}$ | $Y_{cni}$ | $Z_{cni}$ | $x_{cni}$ | $y_{cni}$ | $z_{cni}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0347 | 0.0144 | 0.0 | 0.7053 | 0.2925 | 0.0 | normalized, $Y_w$=100 | | |
| 1 | 495c | 0.0349 | 0.0143 | 0.0006 | 0.6974 | 0.2875 | 0.0129 | −0.115 | 0.999 | 1.0 |
| 2 | 500c | 0.0368 | 0.0143 | 0.0071 | 0.6309 | 0.2453 | 0.1219 | −0.015 | 0.9892 | 0.9902 |
| 3 | 505c | 0.0388 | 0.0142 | 0.0136 | 0.5811 | 0.2137 | 0.2036 | 0.0214 | 0.9785 | 0.9794 |
| 4 | 510c | 0.0407 | 0.0142 | 0.02 | 0.5423 | 0.1891 | 0.2671 | 0.0037 | 0.9687 | 0.9697 |
| 5 | 515c | 0.0423 | 0.0141 | 0.0252 | 0.5171 | 0.1731 | 0.3085 | 0.0101 | 0.9609 | 0.9619 |
| 6 | 520c | 0.0438 | 0.0141 | 0.0304 | 0.4956 | 0.1595 | 0.3437 | 0.004 | 0.9531 | 0.9541 |
| 7 | 525c | 0.0454 | 0.014 | 0.0356 | 0.4771 | 0.1478 | 0.3739 | 0.0079 | 0.9453 | 0.9462 |
| 8 | 530c | 0.0474 | 0.014 | 0.042 | 0.4574 | 0.1352 | 0.4062 | −0.0111 | 0.9365 | 0.9375 |
| 9 | 535c | 0.0497 | 0.0139 | 0.0498 | 0.4376 | 0.1227 | 0.4387 | −0.0125 | 0.9248 | 0.9257 |
| 10 | 540c | 0.0528 | 0.0138 | 0.0602 | 0.4161 | 0.109 | 0.474 | 0.0092 | 0.9082 | 0.9091 |
| 11 | 545c | 0.0583 | 0.0136 | 0.0783 | 0.3876 | 0.0909 | 0.5207 | −0.0017 | 0.8818 | 0.8828 |
| 12 | 550c | 0.0688 | 0.0133 | 0.1133 | 0.3519 | 0.0683 | 0.5791 | 0.008 | 0.8281 | 0.8291 |
| 13 | 555c | 0.102 | 0.0123 | 0.2234 | 0.3019 | 0.0366 | 0.6611 | −0.0019 | 0.663 | 0.664 |
| 14 | 560c | 0.2343 | 0.0083 | 0.6625 | 0.2588 | 0.0092 | 0.7317 | 2.2164 | 0.0 | 0.0009 |
| 15 | 565c | 0.2343 | 0.0083 | 0.6625 | 0.2588 | 0.0092 | 0.7317 | 8.2566 | 0.0 | 0.0009 |
| 0 | 400 | 0.2345 | 0.0083 | 0.6631 | 0.2588 | 0.0092 | 0.7317 | normalized, $Y_w$=100 | | |

**Tristimulus values of reference illuminant**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 380 | 780 | 20.749 | 20.958 | 17.226 | 0.352 | 0.3556 | 0.2923 | not normalized |
| 380 | 780 | 99.0 | 100.0 | 82.193 | 0.352 | 0.3556 | 0.2923 | normalized, $Y_w$=100 |

**Spectral data on the purple line: $\lambda_d$= 700nm to 400nm, normalized, $Y_w$=100**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0347 | 0.0349 | 0.0368 | 0.0388 | 0.0407 | 0.0423 | 0.0438 | 0.0454 | 0.0474 |
| 0.0497 | 0.0528 | 0.0583 | 0.0688 | 0.102 | 0.2343 | 0.2343 | 0.2345 | |
| 0.0144 | 0.0143 | 0.0143 | 0.0142 | 0.0142 | 0.0141 | 0.0141 | 0.014 | 0.014 |
| 0.0139 | 0.0138 | 0.0136 | 0.0133 | 0.0123 | 0.0083 | 0.0083 | 0.0083 | |
| 0.0 | 0.0006 | 0.0071 | 0.0136 | 0.02 | 0.0252 | 0.0304 | 0.0356 | 0.042 |
| 0.0498 | 0.0602 | 0.0783 | 0.1133 | 0.2234 | 0.6625 | 0.6625 | 0.6631 | |

CE861−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , Q00, not normalized**

| *i* | λd | $X_i$ | $Y_i$ | $Z_i$ | $x_i$ | $y_i$ | $z_i$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.0579 | 0.4122 | 0.5987 | 0.0541 | 0.3856 | 0.56 | | 19 | −1 |
| 1 | 500 | 0.0277 | 0.4787 | 0.4934 | 0.0277 | 0.4787 | 0.4934 | | 20 | −1 |
| 2 | 505 | 0.0124 | 0.5484 | 0.4001 | 0.0129 | 0.5706 | 0.4163 | | 21 | −1 |
| 3 | 510 | 0.0139 | 0.6198 | 0.3193 | 0.0146 | 0.6502 | 0.3349 | | 22 | −1 |
| 4 | 515 | 0.0331 | 0.6908 | 0.2506 | 0.034 | 0.7087 | 0.2571 | | 23 | −1 |
| 5 | 520 | 0.0704 | 0.7594 | 0.1936 | 0.0688 | 0.7419 | 0.1891 | | 24 | −1 |
| 6 | 525 | 0.1248 | 0.8233 | 0.1471 | 0.114 | 0.7515 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.1947 | 0.8803 | 0.11 | 0.1643 | 0.7427 | 0.0928 | | 25 | −1 |
| 8 | 535 | 0.2772 | 0.9283 | 0.081 | 0.2154 | 0.7214 | 0.0629 | | 26 | −1 |
| 9 | 540 | 0.3687 | 0.9654 | 0.0586 | 0.2647 | 0.693 | 0.0421 | | 28 | −1 |
| 10 | 545 | 0.4648 | 0.9901 | 0.0417 | 0.3105 | 0.6614 | 0.0279 | | 29 | −1 |
| 11 | 550 | 0.5608 | 1.0016 | 0.0292 | 0.3523 | 0.6292 | 0.0184 | | 30 | −1 |
| 12 | 555 | 0.6518 | 0.9992 | 0.0202 | 0.3899 | 0.5978 | 0.012 | | 30 | 9 |
| 13 | 560 | 0.7332 | 0.9832 | 0.0137 | 0.4237 | 0.5682 | 0.0079 | | 32 | 12 |
| 14 | 565 | 0.801 | 0.9541 | 0.0091 | 0.4539 | 0.5407 | 0.0051 | | 33 | 14 |
| *i* | λd | $X_{ci}$ | $Y_{ci}$ | $Z_{ci}$ | $x_{ci}$ | $y_{ci}$ | $z_{ci}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0043 | 0.0018 | 0.0 | 0.6955 | 0.2885 | 0.0 | not normalized | | |
| 1 | 495c | 0.0047 | 0.0018 | 0.0012 | 0.6034 | 0.2296 | 0.1543 | −0.0002 | 0.9951 | 0.996 |
| 2 | 500c | 0.0052 | 0.0018 | 0.0026 | 0.5332 | 0.1847 | 0.2719 | −0.0002 | 0.9892 | 0.9902 |
| 3 | 505c | 0.0055 | 0.0018 | 0.0036 | 0.5001 | 0.1635 | 0.3273 | 0.002 | 0.9843 | 0.9853 |
| 4 | 510c | 0.006 | 0.0018 | 0.0051 | 0.4628 | 0.1397 | 0.3898 | −0.0018 | 0.9794 | 0.9804 |
| 5 | 515c | 0.0064 | 0.0018 | 0.0061 | 0.4436 | 0.1274 | 0.422 | −0.0013 | 0.9755 | 0.9765 |
| 6 | 520c | 0.0067 | 0.0018 | 0.007 | 0.4275 | 0.1171 | 0.4489 | −0.0002 | 0.9716 | 0.9726 |
| 7 | 525c | 0.0072 | 0.0018 | 0.0085 | 0.4079 | 0.1046 | 0.4817 | −0.0021 | 0.9658 | 0.9667 |
| 8 | 530c | 0.0077 | 0.0018 | 0.01 | 0.3922 | 0.0945 | 0.508 | −0.0006 | 0.9599 | 0.9609 |
| 9 | 535c | 0.0085 | 0.0018 | 0.0124 | 0.372 | 0.0816 | 0.5418 | −0.001 | 0.9501 | 0.9511 |
| 10 | 540c | 0.0098 | 0.0018 | 0.0163 | 0.3495 | 0.0672 | 0.5796 | −0.0004 | 0.9345 | 0.9355 |
| 11 | 545c | 0.0126 | 0.0019 | 0.0246 | 0.3215 | 0.0493 | 0.6265 | 0.0003 | 0.9003 | 0.9013 |
| 12 | 550c | 0.0233 | 0.0021 | 0.0564 | 0.2846 | 0.0258 | 0.6882 | 0.0002 | 0.7734 | 0.7744 |
| 13 | 555c | 0.0884 | 0.0031 | 0.2499 | 0.2587 | 0.0092 | 0.7316 | 0.221 | 0.0 | 0.0009 |
| 14 | 560c | 0.0884 | 0.0031 | 0.2499 | 0.2587 | 0.0092 | 0.7316 | 0.713 | 0.0 | 0.0009 |
| 15 | 565c | 0.0884 | 0.0031 | 0.2499 | 0.2587 | 0.0092 | 0.7316 | 1.1709 | 0.0 | 0.0009 |
| 0 | 400 | 0.0884 | 0.0031 | 0.2501 | 0.2587 | 0.0092 | 0.7316 | not normalized | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 21.61 | 21.401 | 25.133 | 0.3171 | 0.314 | 0.3688 | not normalized | | |
| 380 | 780 | 100.978 | 99.999 | 117.438 | 0.3171 | 0.314 | 0.3688 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: λd= 700nm to 400nm, not normalized**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0043 | 0.0047 | 0.0052 | 0.0055 | 0.006 | 0.0064 | 0.0067 | 0.0072 | 0.0077 |
| 0.0085 | 0.0098 | 0.0126 | 0.0233 | 0.0884 | 0.0884 | 0.0884 | 0.0884 | |
| 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 |
| 0.0018 | 0.0018 | 0.0019 | 0.0021 | 0.0031 | 0.0031 | 0.0031 | 0.0031 | |
| 0.0 | 0.0012 | 0.0026 | 0.0036 | 0.0051 | 0.0061 | 0.007 | 0.0085 | 0.01 |
| 0.0124 | 0.0163 | 0.0246 | 0.0564 | 0.2499 | 0.2499 | 0.2499 | 0.2501 | |

CE860−7N

**Spectral data on the purple line: LMS_17M3, $t_{sa}$=0.0 , Q00, normalized, $Y_w$=100**

| *i* | λd | $X_{ni}$ | $Y_{ni}$ | $Z_{ni}$ | $x_{ni}$ | $y_{ni}$ | $z_{ni}$ | | *INP* | *IPN* |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 495 | 0.2705 | 1.9264 | 2.7978 | 0.0541 | 0.3856 | 0.5601 | | 19 | −1 |
| 1 | 500 | 0.1294 | 2.237 | 2.3058 | 0.0277 | 0.4787 | 0.4934 | | 20 | −1 |
| 2 | 505 | 0.0581 | 2.5629 | 1.8698 | 0.0129 | 0.5706 | 0.4163 | | 21 | −1 |
| 3 | 510 | 0.065 | 2.8963 | 1.492 | 0.0146 | 0.6503 | 0.335 | | 22 | −1 |
| 4 | 515 | 0.155 | 3.2282 | 1.1713 | 0.034 | 0.7087 | 0.2571 | | 23 | −1 |
| 5 | 520 | 0.3291 | 3.5488 | 0.9048 | 0.0688 | 0.7419 | 0.1891 | | 24 | −1 |
| 6 | 525 | 0.5836 | 3.8474 | 0.6877 | 0.114 | 0.7516 | 0.1343 | | 25 | −1 |
| 7 | 530 | 0.91 | 4.1136 | 0.5143 | 0.1643 | 0.7427 | 0.0928 | | 26 | −1 |
| 8 | 535 | 1.2955 | 4.3377 | 0.3785 | 0.2154 | 0.7215 | 0.0629 | | 27 | −1 |
| 9 | 540 | 1.7229 | 4.511 | 0.274 | 0.2647 | 0.6931 | 0.0421 | | 28 | −1 |
| 10 | 545 | 2.172 | 4.6267 | 0.1952 | 0.3105 | 0.6615 | 0.0279 | | 28 | −1 |
| 11 | 550 | 2.6205 | 4.6802 | 0.1368 | 0.3523 | 0.6292 | 0.0184 | | 29 | −1 |
| 12 | 555 | 3.0458 | 4.6692 | 0.0944 | 0.39 | 0.5978 | 0.012 | | 30 | 9 |
| 13 | 560 | 3.4263 | 4.5942 | 0.064 | 0.4238 | 0.5682 | 0.0079 | | 31 | 12 |
| 14 | 565 | 3.743 | 4.4582 | 0.0427 | 0.454 | 0.5407 | 0.0051 | | 32 | 14 |
| *i* | λd | $X_{cni}$ | $Y_{cni}$ | $Z_{cni}$ | $x_{cni}$ | $y_{cni}$ | $z_{cni}$ | *TNX* | *XIE1* | *XIE2* |
| 60 | 700 | 0.0204 | 0.0084 | 0.0 | 0.7043 | 0.2921 | 0.0 | normalized, $Y_w$=100 | | |
| 1 | 495c | 0.0223 | 0.0084 | 0.0057 | 0.6094 | 0.2319 | 0.1558 | −0.0045 | 0.9951 | 0.996 |
| 2 | 500c | 0.0246 | 0.0085 | 0.0125 | 0.5374 | 0.1862 | 0.2741 | −0.0056 | 0.9892 | 0.9902 |
| 3 | 505c | 0.0261 | 0.0085 | 0.0171 | 0.5036 | 0.1647 | 0.3297 | 0.0442 | 0.9843 | 0.9853 |
| 4 | 510c | 0.0284 | 0.0085 | 0.0239 | 0.4656 | 0.1405 | 0.3921 | −0.0411 | 0.9794 | 0.9804 |
| 5 | 515c | 0.0299 | 0.0086 | 0.0285 | 0.446 | 0.1281 | 0.4243 | −0.0299 | 0.9755 | 0.9765 |
| 6 | 520c | 0.0315 | 0.0086 | 0.0331 | 0.4297 | 0.1177 | 0.4511 | −0.0065 | 0.9716 | 0.9726 |
| 7 | 525c | 0.0338 | 0.0086 | 0.0399 | 0.4097 | 0.1051 | 0.4839 | −0.0476 | 0.9658 | 0.9667 |
| 8 | 530c | 0.0361 | 0.0087 | 0.0468 | 0.3938 | 0.0949 | 0.51 | −0.0133 | 0.9599 | 0.9609 |
| 9 | 535c | 0.0399 | 0.0087 | 0.0582 | 0.3733 | 0.0819 | 0.5437 | −0.0229 | 0.9501 | 0.9511 |
| 10 | 540c | 0.0461 | 0.0088 | 0.0764 | 0.3504 | 0.0674 | 0.5812 | −0.0095 | 0.9345 | 0.9355 |
| 11 | 545c | 0.0591 | 0.009 | 0.1153 | 0.3221 | 0.0494 | 0.6278 | 0.0067 | 0.9003 | 0.9013 |
| 12 | 550c | 0.109 | 0.0098 | 0.2637 | 0.2849 | 0.0258 | 0.6889 | 0.0061 | 0.7734 | 0.7744 |
| 13 | 555c | 0.4131 | 0.0147 | 1.1678 | 0.2588 | 0.0092 | 0.7318 | 4.8271 | 0.0 | 0.0009 |
| 14 | 560c | 0.4131 | 0.0147 | 1.1678 | 0.2588 | 0.0092 | 0.7318 | 15.5676 | 0.0 | 0.0009 |
| 15 | 565c | 0.4131 | 0.0147 | 1.1678 | 0.2588 | 0.0092 | 0.7318 | 25.5659 | 0.0 | 0.0009 |
| 0 | 400 | 0.4134 | 0.0147 | 1.169 | 0.2588 | 0.0092 | 0.7318 | normalized, $Y_w$=100 | | |
| **Tristimulus values of reference illuminant** | | | | | | | | | | |
| 380 | 780 | 21.61 | 21.401 | 25.133 | 0.3171 | 0.314 | 0.3688 | not normalized | | |
| 380 | 780 | 100.978 | 99.999 | 117.438 | 0.3171 | 0.314 | 0.3688 | normalized, $Y_w$=100 | | |

**Spectral data on the purple line: λd= 700nm to 400nm, normalized, $Y_w$=100**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0.0204 | 0.0223 | 0.0246 | 0.0261 | 0.0284 | 0.0299 | 0.0315 | 0.0338 | 0.0361 |
| 0.0399 | 0.0461 | 0.0591 | 0.109 | 0.4131 | 0.4131 | 0.4131 | 0.4134 | |
| 0.0084 | 0.0084 | 0.0085 | 0.0085 | 0.0085 | 0.0086 | 0.0086 | 0.0086 | 0.0087 |
| 0.0087 | 0.0088 | 0.009 | 0.0098 | 0.0147 | 0.0147 | 0.0147 | 0.0147 | |
| 0.0 | 0.0057 | 0.0125 | 0.0171 | 0.0239 | 0.0285 | 0.0331 | 0.0399 | 0.0468 |
| 0.0582 | 0.0764 | 0.1153 | 0.2637 | 1.1678 | 1.1678 | 1.1678 | 1.169 | |

CE861−7N