

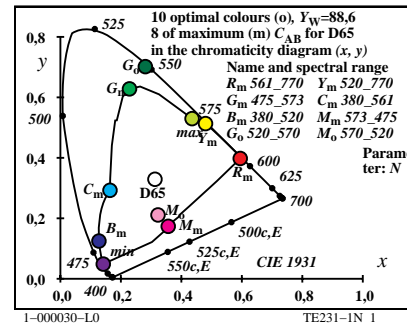
Ostwald optimal colours (o) of maximum (m) C<sub>AB</sub> for D65, Y<sub>w</sub>=88.6, Y<sub>m</sub>=520\_770

| i <sub>1</sub> , λ <sub>1</sub> | i <sub>2</sub> , λ <sub>2</sub> | X <sub>88.6</sub> | Y <sub>88.6</sub> | Z <sub>88.6</sub> | x      | y      | z      | h <sub>xy</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code    |     |
|---------------------------------|---------------------------------|-------------------|-------------------|-------------------|--------|--------|--------|-----------------|---------------------------------|---------------------------------|---------|-----|
| 0                               | 405                             | 32 561            | 28.85             | 51.56             | 95.79  | 0.1637 | 0.2926 | 0.5436          | 193.7                           | 16 483                          | 37 589  | Cm  |
| 6                               | 435                             | 32 562            | 25.77             | 52.08             | 78.6   | 0.1647 | 0.3328 | 0.5023          | 178.4                           | 17 486                          | 42 610  |     |
| 10                              | 450                             | 32 563            | 20.31             | 52.64             | 46.4   | 0.1702 | 0.441  | 0.3887          | 141.8                           | 19 496                          | -1 496c |     |
| 12                              | 460                             | 33 565            | 18.49             | 53.43             | 30.14  | 0.1812 | 0.5234 | 0.2952          | 124.0                           | 21 505                          | -1 505c |     |
| 12                              | 465                             | 33 567            | 19.45             | 54.62             | 30.14  | 0.1866 | 0.5241 | 0.2892          | 122.8                           | 21 506                          | -1 506c |     |
| 14                              | 470                             | 33 569            | 19.02             | 55.56             | 17.7   | 0.206  | 0.602  | 0.1918          | 111.3                           | 24 520                          | -1 520c |     |
| 15                              | 475                             | 34 573            | 21.05             | 57.84             | 13.21  | 0.2285 | 0.6279 | 0.1434          | 105.6                           | 25 528                          | -1 528c | Gm  |
| 16                              | 480                             | 36 580            | 25.69             | 61.97             | 9.79   | 0.2636 | 0.6358 | 0.1005          | 99.0                            | 27 537                          | -1 537c |     |
| 17                              | 485                             | 39 595            | 37.3              | 69.76             | 7.29   | 0.3261 | 0.6099 | 0.0638          | 87.2                            | 29 548                          | -1 548c |     |
| 18                              | 490                             | -1 490c           | 68.29             | 83.1              | 5.43   | 0.4354 | 0.5298 | 0.0346          | 58.5                            | 33 565                          | 11 459  | max |
| 19                              | 495                             | -1 495c           | 68.25             | 81.77             | 4.0    | 0.4431 | 0.5308 | 0.026           | 57.1                            | 33 566                          | 12 462  |     |
| 20                              | 500                             | -1 500c           | 68.23             | 80.1              | 2.89   | 0.4511 | 0.5296 | 0.0191          | 55.3                            | 33 567                          | 12 464  |     |
| 22                              | 510                             | -1 510c           | 68.12             | 75.54             | 1.45   | 0.4694 | 0.5205 | 0.01            | 50.7                            | 33 569                          | 13 469  |     |
| 23                              | 520                             | -1 519c           | 67.91             | 72.63             | 1.03   | 0.4797 | 0.513  | 0.0072          | 47.7                            | 34 570                          | 14 471  | Ym  |
| 25                              | 530                             | -1 529c           | 66.91             | 65.59             | 0.51   | 0.503  | 0.4931 | 0.0038          | 40.7                            | 34 573                          | 15 475  |     |
| 27                              | 540                             | -1 539c           | 64.9              | 57.49             | 0.23   | 0.5292 | 0.4688 | 0.0019          | 32.8                            | 35 577                          | 15 478  |     |
| 28                              | 545                             | -1 544c           | 63.48             | 53.27             | 0.16   | 0.5429 | 0.4556 | 0.0014          | 28.7                            | 35 579                          | 15 479  |     |
| 29                              | 550                             | -1 549c           | 61.75             | 48.96             | 0.11   | 0.5571 | 0.4417 | 0.001           | 24.7                            | 36 582                          | 16 480  |     |
| 30                              | 555                             | -1 554c           | 59.71             | 44.65             | 0.08   | 0.5716 | 0.4274 | 0.0008          | 20.8                            | 36 584                          | 16 481  |     |
| 32                              | 560                             | -1 560c           | 54.73             | 36.33             | 0.05   | 0.6007 | 0.3987 | 0.0005          | 13.6                            | 37 589                          | 16 483  |     |
| 32                              | 561                             | 0 405             | 66.18             | 48.43             | 13.1   | 0.5182 | 0.3792 | 0.1025          | 13.7                            | 37 589                          | 16 483  | Rm  |
| 32                              | 562                             | 6 435             | 69.27             | 47.91             | 30.28  | 0.4697 | 0.3249 | 0.2053          | 358.4                           | 42 610                          | 17 486  |     |
| 32                              | 563                             | 10 450            | 74.73             | 47.35             | 62.49  | 0.4048 | 0.2565 | 0.3385          | 321.8                           | -1 496c                         | 19 496  |     |
| 33                              | 565                             | 12 460            | 76.54             | 46.56             | 78.74  | 0.3792 | 0.2306 | 0.3901          | 304.1                           | -1 505c                         | 21 505  |     |
| 33                              | 567                             | 12 465            | 75.59             | 45.37             | 78.74  | 0.3785 | 0.2271 | 0.3942          | 302.9                           | -1 506c                         | 21 506  |     |
| 33                              | 569                             | 14 470            | 76.02             | 44.43             | 91.18  | 0.3592 | 0.2099 | 0.4308          | 291.3                           | -1 520c                         | 24 520  |     |
| 34                              | 573                             | 15 475            | 73.98             | 42.15             | 95.67  | 0.3492 | 0.199  | 0.4516          | 285.7                           | -1 528c                         | 25 528  | Mm  |
| 36                              | 580                             | 16 480            | 69.34             | 38.02             | 99.09  | 0.3358 | 0.1841 | 0.4799          | 279.1                           | -1 537c                         | 27 537  |     |
| 39                              | 595                             | 17 485            | 57.73             | 30.23             | 101.59 | 0.3045 | 0.1594 | 0.5359          | 267.2                           | -1 548c                         | 29 548  |     |
| -1                              | 490c                            | 18 490            | 26.74             | 16.89             | 103.45 | 0.1818 | 0.1148 | 0.7032          | 238.5                           | 11 459                          | 33 565  | min |
| -1                              | 495c                            | 19 495            | 26.79             | 18.22             | 104.88 | 0.1787 | 0.1215 | 0.6996          | 237.1                           | 12 462                          | 33 566  |     |
| -1                              | 500c                            | 20 500            | 26.81             | 19.89             | 105.99 | 0.1755 | 0.1302 | 0.6941          | 235.4                           | 12 464                          | 33 567  |     |
| -1                              | 510c                            | 22 510            | 26.92             | 24.45             | 107.43 | 0.1695 | 0.1539 | 0.6765          | 230.7                           | 13 469                          | 33 569  |     |
| -1                              | 519c                            | 23 520            | 27.12             | 27.36             | 107.85 | 0.167  | 0.1685 | 0.6643          | 227.7                           | 14 471                          | 34 570  | Bm  |
| -1                              | 529c                            | 25 530            | 28.12             | 34.4              | 108.38 | 0.1645 | 0.2012 | 0.6341          | 220.7                           | 15 475                          | 34 573  |     |
| -1                              | 539c                            | 27 540            | 30.13             | 42.5              | 108.65 | 0.1662 | 0.2344 | 0.5993          | 212.8                           | 15 478                          | 35 577  |     |
| -1                              | 544c                            | 28 545            | 31.55             | 46.72             | 108.72 | 0.1687 | 0.2498 | 0.5813          | 208.8                           | 15 479                          | 35 579  |     |
| -1                              | 549c                            | 29 550            | 33.29             | 51.03             | 108.77 | 0.1723 | 0.2643 | 0.5632          | 204.7                           | 16 480                          | 36 582  |     |
| -1                              | 554c                            | 30 555            | 35.32             | 55.34             | 108.8  | 0.1771 | 0.2774 | 0.5454          | 200.8                           | 16 481                          | 36 584  |     |
| -1                              | 560c                            | 32 560            | 40.31             | 63.66             | 108.84 | 0.1894 | 0.2991 | 0.5114          | 193.6                           | 16 483                          | 37 589  |     |
| 380                             | 770                             | 84.19             | 88.59             | 96.46             | 0.3127 | 0.329  | 0.3582 | 0.0             |                                 |                                 |         |     |

1-000030-L0

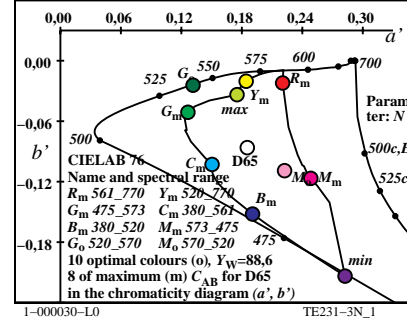
TE230-7N\_1

TUB-test chart TE23; maximum C<sub>AB</sub>, Y<sub>m</sub>=520\_770  
XYZ, xyz, h data, D65, Y<sub>w</sub>=88,6, Parameter: Name



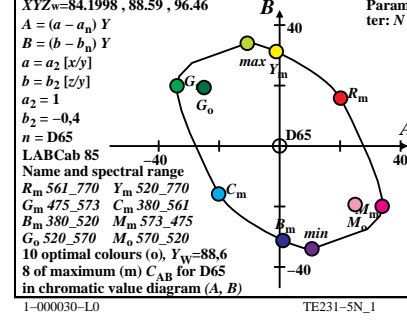
1-000030-L0

TE231-1N\_1



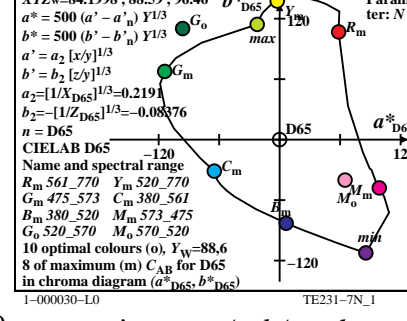
1-000030-L0

TE231-3N\_1



1-000030-L0

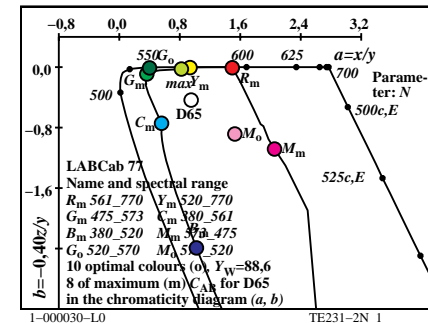
TE231-5N\_1



1-000030-L0

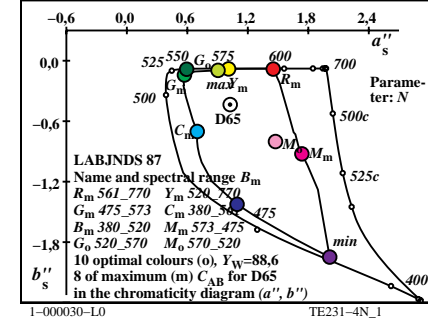
TE231-7N\_1

input: w/rgb/cmyk -> w/rgb/cmyk-  
output: no change



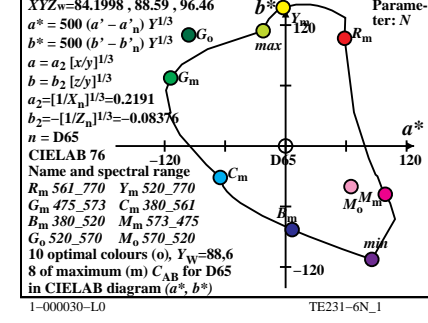
1-000030-L0

TE231-2N\_1



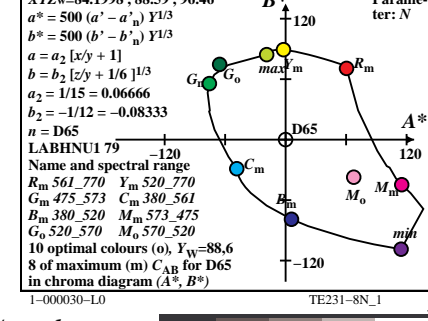
1-000030-L0

TE231-4N\_1



1-000030-L0

TE231-6N\_1



1-000030-L0

TE231-8N\_1

TUB registration: 20130201-TE23/TE23LONA.TXT /PS  
application for measurement of display output

TUB material: code=rh4ta

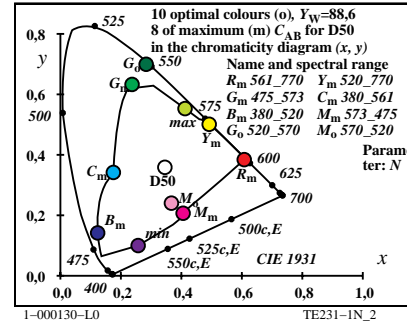
Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for D50,  $Y_w=88.6$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{88.6}$ | $Y_{88.6}$ | $Z_{88.6}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code               |
|------------------|------------------|------------|------------|------------|--------|--------|--------|----------|------------------|------------------|--------------------|
| 1                | 405              | 32         | 564        | 26.24      | 51.21  | 72.29  | 0.1752 | 0.3419   | 0.4827           | 185.5            | 17 486 38 592 Cm   |
| 7                | 435              | 33         | 565        | 23.33      | 51.54  | 56.25  | 0.1779 | 0.393    | 0.4289           | 168.3            | 18 490 46 634      |
| 10               | 450              | 33         | 566        | 20.4       | 51.98  | 37.62  | 0.1854 | 0.4725   | 0.342            | 144.5            | 19 497 -1 497c     |
| 12               | 460              | 33         | 567        | 19.02      | 52.53  | 25.04  | 0.1969 | 0.5437   | 0.2592           | 128.7            | 21 506 -1 506c     |
| 13               | 465              | 33         | 568        | 18.88      | 53.11  | 19.63  | 0.206  | 0.5796   | 0.2143           | 122.2            | 22 511 -1 511c     |
| 14               | 470              | 34         | 570        | 19.36      | 54.07  | 15.11  | 0.2187 | 0.6106   | 0.1706           | 116.7            | 23 519 -1 519c     |
| 15               | 475              | 34         | 573        | 20.87      | 55.72  | 11.43  | 0.237  | 0.6329   | 0.1299           | 111.5            | 25 527 -1 527c Gm  |
| 15               | 480              | 35         | 578        | 24.45      | 59.28  | 11.44  | 0.2569 | 0.6227   | 0.1202           | 108.5            | 26 531 -1 531c     |
| 17               | 485              | 37         | 587        | 31.29      | 64.0   | 6.49   | 0.3074 | 0.6287   | 0.0637           | 98.0             | 28 544 -1 544c     |
| 18               | 490              | 44         | 620        | 58.12      | 77.97  | 4.9    | 0.4122 | 0.5529   | 0.0348           | 71.0             | 32 561 -1 561c max |
| 19               | 495              | -1         | 495c       | 73.62      | 82.96  | 3.66   | 0.4594 | 0.5177   | 0.0228           | 54.4             | 33 568 12 463      |
| 20               | 500              | -1         | 500c       | 73.61      | 81.49  | 2.68   | 0.4665 | 0.5164   | 0.0169           | 52.5             | 33 569 13 466      |
| 22               | 510              | -1         | 510c       | 73.51      | 77.37  | 1.37   | 0.4827 | 0.5081   | 0.009            | 47.4             | 34 571 14 471      |
| 23               | 520              | -1         | 519c       | 73.32      | 74.67  | 0.99   | 0.4921 | 0.5012   | 0.0066           | 44.2             | 34 572 14 473 Ym   |
| 25               | 530              | -1         | 529c       | 72.37      | 68.03  | 0.49   | 0.5136 | 0.4828   | 0.0035           | 36.4             | 35 575 15 477      |
| 27               | 540              | -1         | 539c       | 70.43      | 60.24  | 0.23   | 0.538  | 0.4601   | 0.0018           | 27.8             | 35 579 16 480      |
| 28               | 545              | -1         | 544c       | 69.05      | 56.11  | 0.16   | 0.5509 | 0.4477   | 0.0013           | 23.4             | 36 581 16 481      |
| 29               | 550              | -1         | 549c       | 67.34      | 51.87  | 0.11   | 0.5643 | 0.4346   | 0.0009           | 19.1             | 36 583 16 483      |
| 30               | 555              | -1         | 554c       | 65.31      | 47.59  | 0.08   | 0.578  | 0.4211   | 0.0007           | 15.0             | 37 585 16 484      |
| 32               | 560              | -1         | 560c       | 60.3       | 39.22  | 0.05   | 0.6055 | 0.3938   | 0.0005           | 7.7              | 38 590 17 486      |
| 32               | 564              | 1          | 405        | 70.17      | 48.78  | 10.19  | 0.5433 | 0.3776   | 0.0789           | 5.5              | 38 592 17 486 Rm   |
| 33               | 565              | 7          | 435        | 73.09      | 48.45  | 26.24  | 0.4945 | 0.3278   | 0.1775           | 348.3            | 46 634 18 490      |
| 33               | 566              | 10         | 450        | 76.01      | 48.01  | 44.87  | 0.45   | 0.2842   | 0.2656           | 324.5            | -1 497c 19 497     |
| 33               | 567              | 12         | 460        | 77.39      | 47.46  | 57.44  | 0.4245 | 0.2603   | 0.3151           | 308.8            | -1 506c 21 506     |
| 33               | 568              | 13         | 465        | 77.53      | 46.88  | 62.85  | 0.414  | 0.2503   | 0.3356           | 302.3            | -1 511c 22 511     |
| 34               | 570              | 14         | 470        | 77.05      | 45.92  | 67.38  | 0.4047 | 0.2412   | 0.3539           | 296.7            | -1 519c 23 519     |
| 34               | 573              | 15         | 475        | 75.55      | 44.27  | 71.05  | 0.3957 | 0.2319   | 0.3722           | 291.6            | -1 527c 25 527     |
| 35               | 578              | 15         | 480        | 71.96      | 40.71  | 71.05  | 0.3916 | 0.2216   | 0.3867           | 288.5            | -1 531c 26 531     |
| 37               | 587              | 17         | 485        | 65.12      | 35.99  | 76.0   | 0.3676 | 0.2032   | 0.429            | 278.0            | -1 544c 28 544     |
| 44               | 620              | 18         | 490        | 38.29      | 22.02  | 77.58  | 0.2777 | 0.1596   | 0.5626           | 251.1            | -1 561c 32 561 min |
| -1               | 495c             | 19         | 495        | 22.79      | 17.03  | 78.83  | 0.192  | 0.1435   | 0.6643           | 234.4            | 12 463 33 568      |
| -1               | 500c             | 20         | 500        | 22.8       | 18.5   | 79.81  | 0.1882 | 0.1528   | 0.6589           | 232.5            | 13 466 33 569      |
| -1               | 510c             | 22         | 510        | 22.91      | 22.62  | 81.11  | 0.1808 | 0.1786   | 0.6404           | 227.5            | 14 471 34 571      |
| -1               | 519c             | 23         | 520        | 23.09      | 25.32  | 81.5   | 0.1777 | 0.1948   | 0.6273           | 224.2            | 14 473 34 572 Bm   |
| -1               | 529c             | 25         | 530        | 24.04      | 31.96  | 81.99  | 0.1742 | 0.2315   | 0.5941           | 216.5            | 15 477 35 575      |
| -1               | 539c             | 27         | 540        | 25.98      | 39.75  | 82.25  | 0.1755 | 0.2686   | 0.5558           | 207.8            | 16 480 35 579      |
| -1               | 544c             | 28         | 545        | 27.37      | 43.88  | 82.33  | 0.1782 | 0.2857   | 0.536            | 203.5            | 16 481 36 581      |
| -1               | 549c             | 29         | 550        | 29.07      | 48.12  | 82.37  | 0.1821 | 0.3015   | 0.5162           | 199.2            | 16 483 36 583      |
| -1               | 554c             | 30         | 555        | 31.1       | 52.4   | 82.4   | 0.1874 | 0.3158   | 0.4966           | 195.0            | 16 484 37 585      |
| -1               | 560c             | 32         | 560        | 36.11      | 60.77  | 82.44  | 0.2013 | 0.3388   | 0.4597           | 187.7            | 17 486 38 590      |
| 380              | 770              | 85.42      | 88.59      | 73.08      | 0.3457 | 0.3585 | 0.2957 | 0.0      |                  |                  |                    |

1-000130-L0

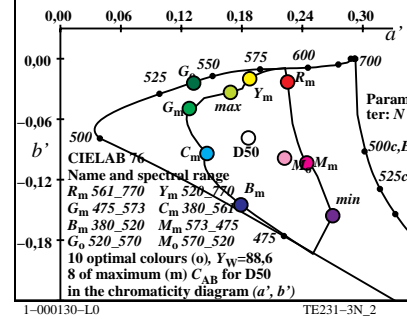
TE230-7N\_2

TUB-test chart TE23; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
 XYZ,  $xyz$ ,  $h$  data, D50,  $Y_w=88.6$ , Parameter: Name



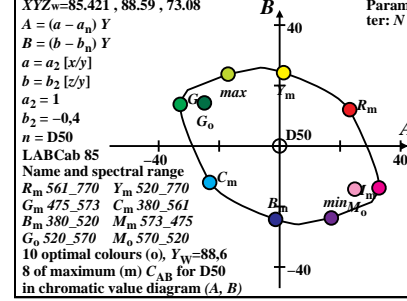
1-000130-L0

TE231-1N\_2



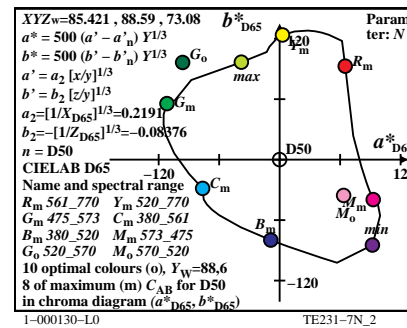
1-000130-L0

TE231-3N\_2



1-000130-L0

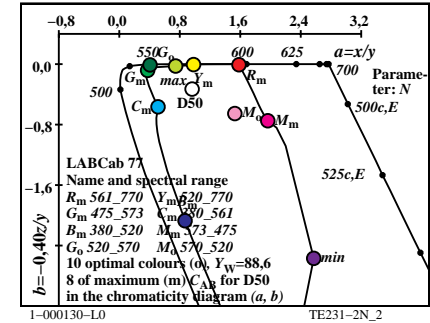
TE231-5N\_2



1-000130-L0

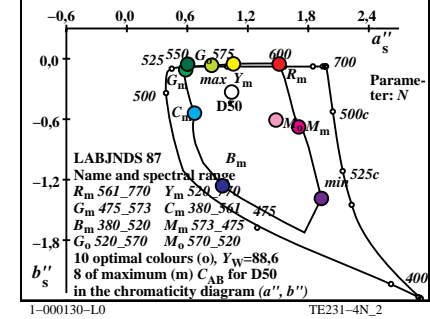
TE231-7N\_2

input: w/rgb/cmyk -> w/rgb/cmyk-  
 output: no change



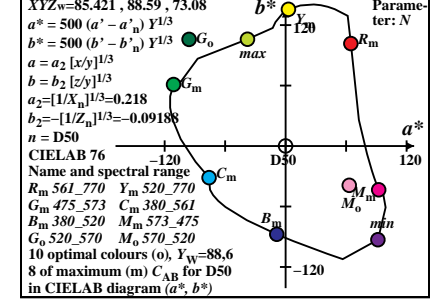
1-000130-L0

TE231-2N\_2



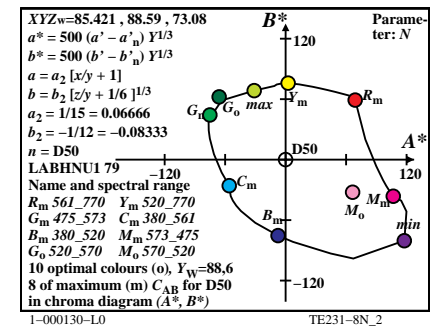
1-000130-L0

TE231-4N\_2



1-000130-L0

TE231-6N\_2



1-000130-L0

TE231-8N\_2

TUB registration: 20130201-TE23/TE23LONA.TXT /.PS  
 application for measurement of display output

TUB material: code=rh4ta

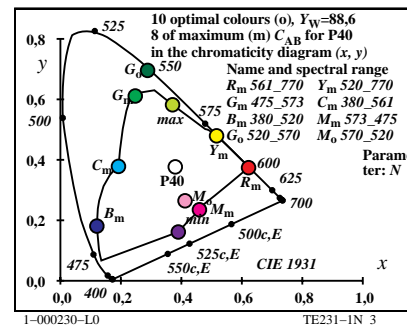
Ostwald optimal colours (o) of maximum (m) C<sub>AB</sub> for P40, Y<sub>w</sub>=88,6, Y<sub>m</sub>=520\_770

| i <sub>1</sub> , λ <sub>1</sub> | i <sub>2</sub> , λ <sub>2</sub> | X <sub>88,6</sub> | Y <sub>88,6</sub> | Z <sub>88,6</sub> | x      | y      | z      | h <sub>xy</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code               |
|---------------------------------|---------------------------------|-------------------|-------------------|-------------------|--------|--------|--------|-----------------|---------------------------------|---------------------------------|--------------------|
| 0                               | 405                             | 33                | 568               | 25.48             | 50.12  | 56.92  | 0.1922 | 0.3782          | 0.4295                          | 179.4                           | 17 488 38 594 Cm   |
| 7                               | 435                             | 33                | 568               | 22.92             | 50.37  | 42.95  | 0.1971 | 0.4333          | 0.3695                          | 162.7                           | 18 493 54 674      |
| 10                              | 450                             | 33                | 569               | 20.81             | 50.74  | 29.3   | 0.2063 | 0.5031          | 0.2905                          | 143.8                           | 19 499 -1 499c     |
| 12                              | 460                             | 34                | 570               | 19.89             | 51.2   | 20.08  | 0.2181 | 0.5615          | 0.2202                          | 131.1                           | 21 507 -1 507c     |
| 13                              | 465                             | 34                | 571               | 19.88             | 51.65  | 15.98  | 0.2271 | 0.5902          | 0.1825                          | 125.5                           | 22 512 -1 512c     |
| 14                              | 470                             | 34                | 572               | 20.36             | 52.42  | 12.49  | 0.2387 | 0.6147          | 0.1464                          | 120.6                           | 23 519 -1 519c     |
| 14                              | 475                             | 34                | 574               | 21.95             | 54.15  | 12.49  | 0.2477 | 0.6111          | 0.141                           | 119.3                           | 24 522 -1 522c Gm  |
| 15                              | 480                             | 35                | 578               | 24.49             | 56.54  | 9.64   | 0.2701 | 0.6234          | 0.1063                          | 113.9                           | 26 531 -1 531c     |
| 17                              | 485                             | 37                | 585               | 29.72             | 60.26  | 5.64   | 0.3108 | 0.6301          | 0.059                           | 105.2                           | 28 543 -1 543c     |
| 17                              | 490                             | 40                | 600               | 44.57             | 70.01  | 5.65   | 0.3707 | 0.5822          | 0.047                           | 92.5                            | 30 554 -1 554c max |
| 19                              | 495                             | -1                | 495c              | 80.24             | 84.05  | 3.24   | 0.4789 | 0.5016          | 0.0193                          | 51.6                            | 34 571 12 464      |
| 20                              | 500                             | -1                | 500c              | 80.23             | 82.78  | 2.4    | 0.485  | 0.5004          | 0.0145                          | 49.6                            | 34 571 13 467      |
| 21                              | 510                             | -1                | 509c              | 80.21             | 81.16  | 1.75   | 0.4916 | 0.4975          | 0.0107                          | 47.2                            | 34 572 13 469      |
| 24                              | 520                             | -1                | 520c              | 79.64             | 73.89  | 0.66   | 0.5164 | 0.4792          | 0.0042                          | 36.9                            | 35 575 15 476 Ym   |
| 26                              | 530                             | -1                | 530c              | 78.35             | 67.28  | 0.33   | 0.5368 | 0.4609          | 0.0022                          | 28.2                            | 35 578 16 480      |
| 27                              | 540                             | -1                | 539c              | 77.33             | 63.58  | 0.23   | 0.5478 | 0.4504          | 0.0016                          | 23.7                            | 36 580 16 481      |
| 29                              | 545                             | -1                | 545c              | 74.41             | 55.69  | 0.12   | 0.5714 | 0.4276          | 0.0009                          | 14.9                            | 36 584 16 484      |
| 29                              | 550                             | -1                | 549c              | 74.41             | 55.69  | 0.12   | 0.5714 | 0.4276          | 0.0009                          | 14.9                            | 36 584 16 484      |
| 31                              | 555                             | -1                | 555c              | 70.15             | 47.4   | 0.07   | 0.5963 | 0.403           | 0.0006                          | 6.9                             | 37 588 17 486      |
| 32                              | 560                             | -1                | 560c              | 67.45             | 43.22  | 0.05   | 0.6091 | 0.3903          | 0.0005                          | 3.4                             | 38 591 17 487      |
| 33                              | 568                             | 0                 | 405               | 75.45             | 49.87  | 7.76   | 0.5669 | 0.3747          | 0.0583                          | 359.4                           | 38 594 17 488 Rm   |
| 33                              | 568                             | 7                 | 435               | 78.01             | 49.62  | 21.73  | 0.5222 | 0.3322          | 0.1454                          | 342.7                           | 54 674 18 493      |
| 33                              | 569                             | 10                | 450               | 80.12             | 49.25  | 35.38  | 0.4862 | 0.2989          | 0.2147                          | 323.9                           | -1 499c 19 499     |
| 34                              | 570                             | 12                | 460               | 81.04             | 48.79  | 44.6   | 0.4645 | 0.2797          | 0.2557                          | 311.1                           | -1 507c 21 507     |
| 34                              | 571                             | 13                | 465               | 81.04             | 48.34  | 48.7   | 0.455  | 0.2714          | 0.2734                          | 305.5                           | -1 512c 22 512     |
| 34                              | 572                             | 14                | 470               | 80.56             | 47.57  | 52.19  | 0.4467 | 0.2638          | 0.2894                          | 300.6                           | -1 519c 23 519     |
| 34                              | 574                             | 14                | 475               | 78.97             | 45.84  | 52.19  | 0.4461 | 0.259           | 0.2948                          | 299.4                           | -1 522c 24 522 Mm  |
| 35                              | 578                             | 15                | 480               | 76.43             | 43.45  | 55.04  | 0.4369 | 0.2484          | 0.3146                          | 294.0                           | -1 531c 26 531     |
| 37                              | 585                             | 17                | 485               | 71.2              | 39.73  | 59.04  | 0.4188 | 0.2337          | 0.3473                          | 285.2                           | -1 543c 28 543     |
| 40                              | 600                             | 17                | 490               | 56.35             | 29.98  | 59.03  | 0.3876 | 0.2062          | 0.406                           | 272.6                           | -1 554c 30 554 min |
| -1                              | 495c                            | 19                | 495               | 20.68             | 15.94  | 61.44  | 0.2109 | 0.1625          | 0.6264                          | 231.6                           | 12 464 34 571      |
| -1                              | 500c                            | 20                | 500               | 20.69             | 17.21  | 62.28  | 0.2065 | 0.1718          | 0.6215                          | 229.7                           | 13 467 34 571      |
| -1                              | 509c                            | 21                | 510               | 20.72             | 18.83  | 62.93  | 0.2021 | 0.1837          | 0.614                           | 227.3                           | 13 469 34 572      |
| -1                              | 520c                            | 24                | 520               | 21.28             | 26.1   | 64.02  | 0.191  | 0.2342          | 0.5746                          | 216.9                           | 15 476 35 575 Bm   |
| -1                              | 530c                            | 26                | 530               | 22.57             | 32.71  | 64.35  | 0.1886 | 0.2734          | 0.5378                          | 208.3                           | 16 480 35 578      |
| -1                              | 539c                            | 27                | 540               | 23.59             | 36.41  | 64.45  | 0.1895 | 0.2925          | 0.5178                          | 203.7                           | 16 481 36 580      |
| -1                              | 545c                            | 29                | 545               | 26.51             | 44.3   | 64.56  | 0.1958 | 0.3272          | 0.4769                          | 194.9                           | 16 484 36 584      |
| -1                              | 549c                            | 29                | 550               | 26.51             | 44.3   | 64.56  | 0.1958 | 0.3272          | 0.4769                          | 194.9                           | 16 484 36 584      |
| -1                              | 555c                            | 31                | 555               | 30.78             | 52.59  | 64.61  | 0.2079 | 0.3553          | 0.4366                          | 186.9                           | 17 486 37 588      |
| -1                              | 560c                            | 32                | 560               | 33.47             | 56.77  | 64.63  | 0.2161 | 0.3665          | 0.4172                          | 183.4                           | 17 487 38 591      |
| 380                             | 770                             | 89.41             | 88.59             | 57.3              | 0.3799 | 0.3764 | 0.2435 | 0.0             |                                 |                                 |                    |

1-000230-L0

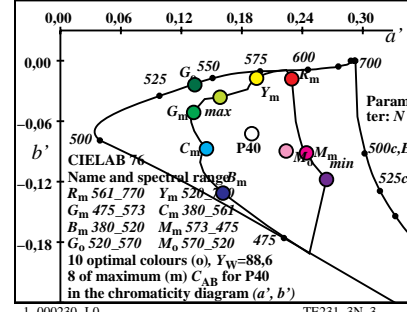
TE230-7N\_3

TUB-test chart TE23; maximum C<sub>AB</sub>, Y<sub>m</sub>=520\_770  
XYZ, xyz, h data, P40, Y<sub>w</sub>=88,6, Parameter: Name



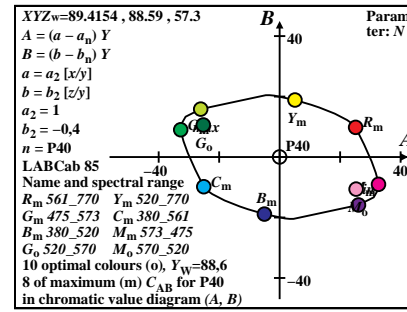
1-000230-L0

TE231-1N\_3



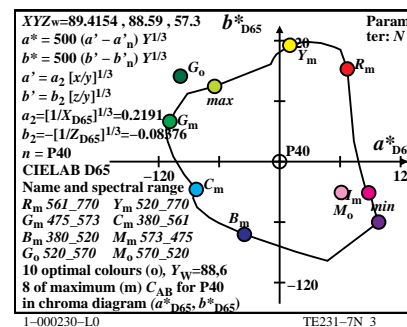
1-000230-L0

TE231-3N\_3



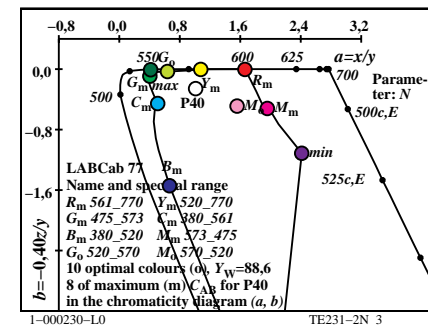
1-000230-L0

TE231-5N\_3



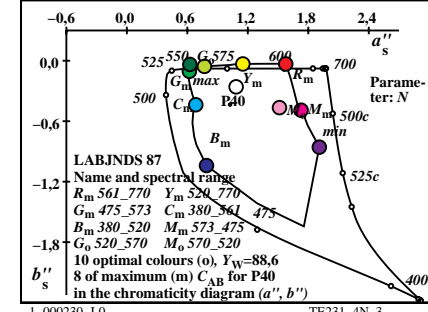
1-000230-L0

TE231-7N\_3



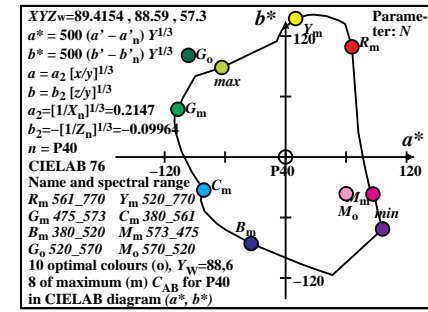
1-000230-L0

TE231-2N\_3



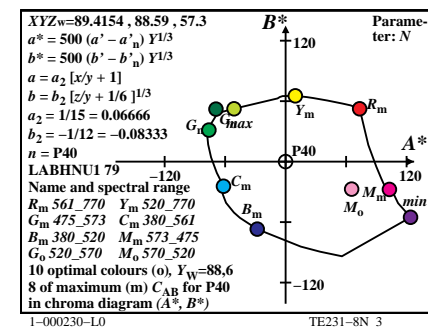
1-000230-L0

TE231-4N\_3



1-000230-L0

TE231-6N\_3



1-000230-L0

TE231-8N\_3

input: w/rgb/cmyk -> w/rgb/cmyk  
output: no change

TUB registration: 20130201-TE23/TE23LONA.TXT /PS  
application for measurement of display output

TUB material: code=rh4ta

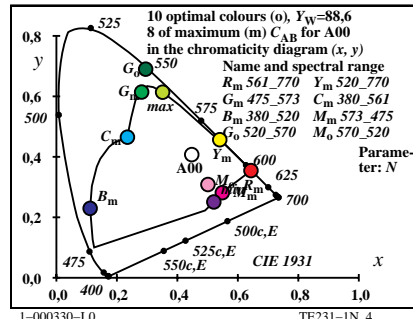


**Ostwald optimal colours (o) of maximum (m) C<sub>AB</sub> for A00, Y<sub>w</sub>=88,6, Y<sub>m</sub>=520\_770**

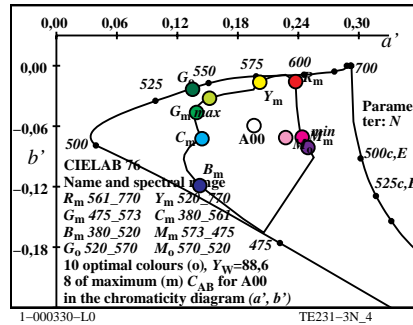
| i <sub>1</sub> , λ <sub>1</sub> | i <sub>2</sub> , λ <sub>2</sub> | X <sub>88,6</sub> | Y <sub>88,6</sub> | Z <sub>88,6</sub> | x      | y      | z      | h <sub>xy</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code   |     |
|---------------------------------|---------------------------------|-------------------|-------------------|-------------------|--------|--------|--------|-----------------|---------------------------------|---------------------------------|--------|-----|
| 1                               | 405 34 574                      | 24.45             | 48.43             | 31.25             | 0.2347 | 0.465  | 0.3001 | 164.8           | 18 494                          | 39 599                          | Cm     |     |
| 6                               | 435 34 574                      | 23.77             | 48.59             | 27.06             | 0.239  | 0.4887 | 0.2722 | 158.6           | 19 496                          | 42 611                          |        |     |
| 9                               | 450 34 574                      | 22.82             | 48.83             | 20.66             | 0.2472 | 0.5289 | 0.2238 | 148.7           | 20 501                          | -1 501c                         |        |     |
| 12                              | 460 35 575                      | 21.88             | 49.01             | 13.06             | 0.2606 | 0.5837 | 0.1556 | 136.6           | 21 508                          | -1 508c                         |        |     |
| 13                              | 465 35 575                      | 21.91             | 49.25             | 10.67             | 0.2677 | 0.6018 | 0.1303 | 132.7           | 22 512                          | -1 512c                         |        |     |
| 13                              | 470 35 576                      | 22.53             | 49.84             | 10.67             | 0.2712 | 0.6001 | 0.1285 | 132.4           | 22 513                          | -1 513c                         |        |     |
| 14                              | 475 35 577                      | 23.21             | 50.59             | 8.56              | 0.2817 | 0.6142 | 0.104  | 128.7           | 23 519                          | -1 519c                         | Gm     |     |
| 16                              | 480 35 579                      | 24.42             | 51.55             | 5.34              | 0.3003 | 0.6339 | 0.0656 | 123.0           | 26 532                          | -1 532c                         |        |     |
| 17                              | 485 36 582                      | 27.25             | 53.64             | 4.18              | 0.3202 | 0.6305 | 0.0491 | 119.6           | 28 540                          | -1 540c                         |        |     |
| 18                              | 490 37 588                      | 32.93             | 57.57             | 3.26              | 0.3512 | 0.6139 | 0.0348 | 114.9           | 29 548                          | -1 548c                         | max    |     |
| 19                              | 495 40 601                      | 47.38             | 65.98             | 2.53              | 0.4088 | 0.5693 | 0.0218 | 103.4           | 31 559                          | -1 559c                         |        |     |
| 20                              | 500                             | -1 500c           | 92.54             | 84.75             | 1.93   | 0.5163 | 0.4728 | 0.0107          | 43.5                            | 35 576                          | 13 469 |     |
| 21                              | 510                             | -1 509c           | 92.53             | 83.55             | 1.44   | 0.5212 | 0.4706 | 0.0081          | 40.5                            | 35 576                          | 14 472 |     |
| 24                              | 520                             | -1 520c           | 92.07             | 77.79             | 0.58   | 0.5401 | 0.4563 | 0.0034          | 27.8                            | 35 579                          | 16 480 | Ym  |
| 26                              | 530                             | -1 530c           | 90.98             | 72.2              | 0.31   | 0.5564 | 0.4416 | 0.0019          | 17.4                            | 36 582                          | 16 484 |     |
| 28                              | 540                             | -1 540c           | 88.92             | 65.49             | 0.16   | 0.5752 | 0.4236 | 0.001           | 7.2                             | 37 585                          | 17 487 |     |
| 28                              | 545                             | -1 544c           | 88.92             | 65.49             | 0.16   | 0.5752 | 0.4236 | 0.001           | 7.2                             | 37 585                          | 17 487 |     |
| 29                              | 550                             | -1 549c           | 87.43             | 61.79             | 0.12   | 0.5854 | 0.4137 | 0.0008          | 2.6                             | 37 586                          | 17 489 |     |
| 31                              | 555                             | -1 555c           | 83.35             | 53.89             | 0.07   | 0.6069 | 0.3924 | 0.0005          | 354.6                           | 38 590                          | 18 491 |     |
| 32                              | 560                             | -1 560c           | 80.69             | 49.77             | 0.06   | 0.6182 | 0.3813 | 0.0004          | 351.3                           | 38 593                          | 18 492 |     |
| 34                              | 574                             | 1 405             | 85.39             | 51.56             | 4.32   | 0.6044 | 0.3649 | 0.0306          | 344.8                           | 39 599                          | 18 494 | Rm  |
| 34                              | 574                             | 6 435             | 86.07             | 51.4              | 8.51   | 0.5895 | 0.352  | 0.0583          | 338.7                           | 42 611                          | 19 496 |     |
| 34                              | 574                             | 9 450             | 87.02             | 51.16             | 14.92  | 0.5683 | 0.3341 | 0.0974          | 328.7                           | -1 501c                         | 20 501 |     |
| 35                              | 575                             | 12 460            | 87.95             | 50.98             | 22.51  | 0.5447 | 0.3157 | 0.1394          | 316.7                           | -1 508c                         | 21 508 |     |
| 35                              | 575                             | 13 465            | 87.93             | 50.74             | 24.91  | 0.5375 | 0.3101 | 0.1522          | 312.7                           | -1 512c                         | 22 512 |     |
| 35                              | 576                             | 13 470            | 87.31             | 50.15             | 24.91  | 0.5377 | 0.3088 | 0.1534          | 312.4                           | -1 513c                         | 22 513 |     |
| 35                              | 577                             | 14 475            | 86.63             | 49.4              | 27.01  | 0.5313 | 0.3029 | 0.1656          | 308.7                           | -1 519c                         | 23 519 | Mm  |
| 35                              | 579                             | 16 480            | 85.41             | 48.44             | 30.24  | 0.5205 | 0.2951 | 0.1842          | 303.0                           | -1 532c                         | 26 532 |     |
| 36                              | 582                             | 17 485            | 82.59             | 46.35             | 31.39  | 0.5151 | 0.289  | 0.1958          | 299.7                           | -1 540c                         | 28 540 |     |
| 37                              | 588                             | 18 490            | 76.91             | 42.42             | 32.31  | 0.5071 | 0.2797 | 0.213           | 295.0                           | -1 548c                         | 29 548 | min |
| 40                              | 601                             | 19 495            | 62.46             | 34.01             | 33.05  | 0.4822 | 0.2626 | 0.2551          | 283.4                           | -1 559c                         | 31 559 |     |
| -1                              | 500c                            | 20 500            | 17.3              | 15.24             | 33.65  | 0.2613 | 0.2302 | 0.5083          | 223.5                           | 13 469                          | 35 576 |     |
| -1                              | 509c                            | 21 510            | 17.31             | 16.44             | 34.14  | 0.255  | 0.2422 | 0.5027          | 220.6                           | 14 472                          | 35 576 |     |
| -1                              | 520c                            | 24 520            | 17.77             | 22.2              | 34.99  | 0.237  | 0.2961 | 0.4667          | 207.8                           | 16 480                          | 35 579 | Bm  |
| -1                              | 530c                            | 26 530            | 18.86             | 27.79             | 35.27  | 0.2302 | 0.3392 | 0.4305          | 197.4                           | 16 484                          | 36 582 |     |
| -1                              | 540c                            | 28 540            | 20.92             | 34.5              | 35.41  | 0.2303 | 0.3797 | 0.3898          | 187.2                           | 17 487                          | 37 585 |     |
| -1                              | 544c                            | 28 545            | 20.92             | 34.5              | 35.41  | 0.2303 | 0.3797 | 0.3898          | 187.2                           | 17 487                          | 37 585 |     |
| -1                              | 549c                            | 29 550            | 22.41             | 38.2              | 35.45  | 0.2333 | 0.3976 | 0.369           | 182.6                           | 17 489                          | 37 586 |     |
| -1                              | 555c                            | 31 555            | 26.48             | 46.1              | 35.5   | 0.245  | 0.4264 | 0.3284          | 174.6                           | 18 491                          | 38 590 |     |
| -1                              | 560c                            | 32 560            | 29.15             | 50.22             | 35.52  | 0.2537 | 0.4371 | 0.3091          | 171.2                           | 18 492                          | 38 593 |     |
| 380                             | 770                             | 97.31             | 88.58             | 31.52             | 0.4475 | 0.4074 | 0.1449 | 0.0             |                                 |                                 |        |     |

1-000330-L0 TE230-7N\_4

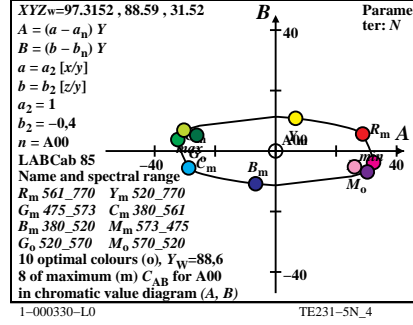
TUB-test chart TE23; maximum C<sub>AB</sub>, Y<sub>m</sub>=520\_770  
 XYZ, xyz, h data, A00, Y<sub>w</sub>=88,6, Parameter: Name



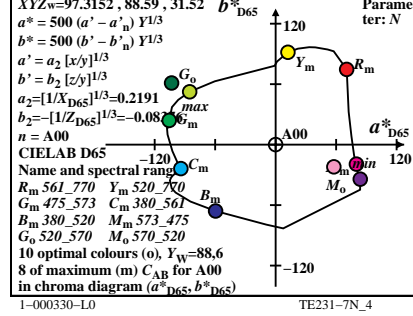
1-000330-L0 TE231-1N\_4



1-000330-L0 TE231-3N\_4

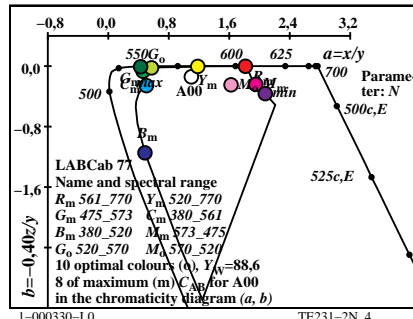


1-000330-L0 TE231-5N\_4

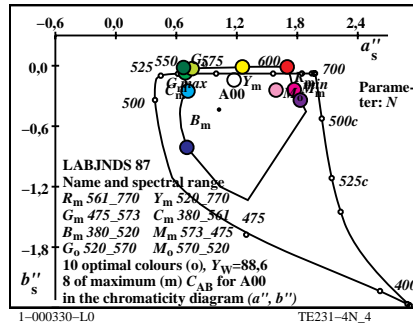


1-000330-L0 TE231-7N\_4

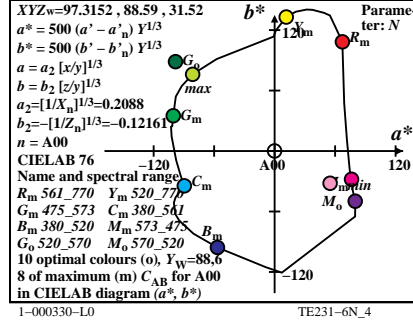
input: w/rgb/cmyk -> w/rgb/cmyk  
 output: no change



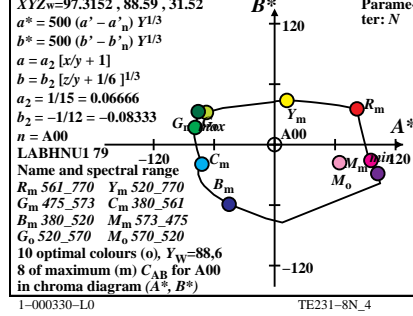
1-000330-L0 TE231-2N\_4



1-000330-L0 TE231-4N\_4



1-000330-L0 TE231-6N\_4



1-000330-L0 TE231-8N\_4

TUB registration: 20130201-TE23/TE23LONA.TXT /.PS  
 application for measurement of display output

TUB material: code=rh4ta

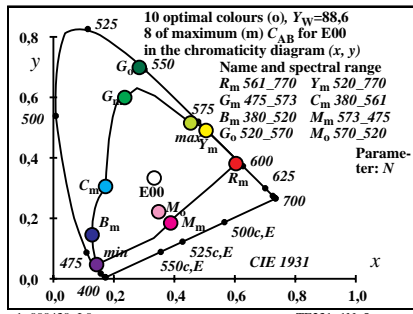
Ostwald optimal colours (o) of maximum (m) C<sub>AB</sub> for E00, Y<sub>w</sub>=88,6, Y<sub>m</sub>=520\_770

| i <sub>1</sub> , λ <sub>1</sub> | i <sub>2</sub> , λ <sub>2</sub> | X <sub>88,6</sub> | Y <sub>88,6</sub> | Z <sub>88,6</sub> | x      | y      | z      | h <sub>xy</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |
|---------------------------------|---------------------------------|-------------------|-------------------|-------------------|--------|--------|--------|-----------------|---------------------------------|---------------------------------|------|
| 1                               | 405 32 564                      | 28.76             | 50.87             | 87.07             | 0.1725 | 0.3051 | 0.5222 | 189.9           | 16 484                          | 38 592                          | Cm   |
| 6                               | 435 33 565                      | 25.48             | 51.3              | 69.01             | 0.1747 | 0.3518 | 0.4733 | 173.3           | 17 488                          | 45 627                          |      |
| 10                              | 450 33 566                      | 20.65             | 51.78             | 40.05             | 0.1835 | 0.4603 | 0.3561 | 139.6           | 19 498                          | -1 498c                         |      |
| 12                              | 460 33 568                      | 19.25             | 52.51             | 26.36             | 0.1962 | 0.5351 | 0.2686 | 124.1           | 21 507                          | -1 507c                         |      |
| 13                              | 465 33 569                      | 19.21             | 53.28             | 20.52             | 0.2065 | 0.5727 | 0.2206 | 117.8           | 22 514                          | -1 514c                         |      |
| 14                              | 470 34 571                      | 20.0              | 54.5              | 15.7              | 0.2217 | 0.6041 | 0.174  | 112.3           | 24 522                          | -1 522c                         |      |
| 14                              | 475 35 575                      | 22.49             | 57.16             | 15.7              | 0.2358 | 0.5994 | 0.1646 | 110.0           | 25 525                          | -1 525c                         | Gm   |
| 16                              | 480 36 581                      | 26.5              | 60.43             | 8.9               | 0.2765 | 0.6305 | 0.0929 | 100.8           | 27 538                          | -1 538c                         |      |
| 17                              | 485 39 595                      | 37.68             | 67.95             | 6.68              | 0.3355 | 0.6049 | 0.0594 | 89.5            | 29 549                          | -1 549c                         |      |
| 18                              | 490 -1 490c                     | 73.83             | 83.75             | 4.99              | 0.4541 | 0.5151 | 0.0307 | 56.3            | 33 568                          | 11 459                          | max  |
| 19                              | 495 -1 495c                     | 73.79             | 82.54             | 3.69              | 0.461  | 0.5157 | 0.0231 | 54.9            | 33 568                          | 12 461                          |      |
| 19                              | 500 -1 499c                     | 73.79             | 82.54             | 3.69              | 0.461  | 0.5157 | 0.0231 | 54.9            | 33 568                          | 12 461                          |      |
| 22                              | 510 -1 510c                     | 73.67             | 76.84             | 1.36              | 0.485  | 0.5059 | 0.0089 | 48.6            | 34 571                          | 13 469                          |      |
| 24                              | 520 -1 520c                     | 73.12             | 70.99             | 0.69              | 0.5049 | 0.4902 | 0.0047 | 42.4            | 34 574                          | 14 473                          | Ym   |
| 26                              | 530 -1 530c                     | 71.74             | 63.88             | 0.33              | 0.5276 | 0.4698 | 0.0024 | 35.0            | 35 577                          | 15 477                          |      |
| 28                              | 540 -1 540c                     | 69.32             | 56.0              | 0.16              | 0.5524 | 0.4462 | 0.0012 | 27.2            | 36 581                          | 15 479                          |      |
| 29                              | 545 -1 545c                     | 67.68             | 51.9              | 0.11              | 0.5654 | 0.4336 | 0.0009 | 23.3            | 36 583                          | 16 480                          |      |
| 29                              | 550 -1 549c                     | 67.68             | 51.9              | 0.11              | 0.5654 | 0.4336 | 0.0009 | 23.3            | 36 583                          | 16 480                          |      |
| 30                              | 555 -1 554c                     | 65.72             | 47.77             | 0.08              | 0.5786 | 0.4205 | 0.0007 | 19.5            | 37 585                          | 16 482                          |      |
| 32                              | 560 -1 560c                     | 60.79             | 39.54             | 0.05              | 0.6055 | 0.3939 | 0.0005 | 12.5            | 38 590                          | 16 483                          |      |
| 32                              | 564 1 405                       | 71.23             | 49.12             | 12.92             | 0.5344 | 0.3685 | 0.097  | 9.9             | 38 592                          | 16 484                          | Rm   |
| 33                              | 565 6 435                       | 74.51             | 48.69             | 30.98             | 0.4832 | 0.3157 | 0.2009 | 353.3           | 45 627                          | 17 488                          |      |
| 33                              | 566 10 450                      | 79.34             | 48.21             | 59.94             | 0.4231 | 0.2571 | 0.3196 | 319.7           | -1 498c                         | 19 498                          |      |
| 33                              | 568 12 460                      | 80.74             | 47.48             | 73.64             | 0.3999 | 0.2352 | 0.3648 | 304.2           | -1 507c                         | 21 507                          |      |
| 33                              | 569 13 465                      | 80.78             | 46.71             | 79.47             | 0.3903 | 0.2257 | 0.3839 | 297.9           | -1 514c                         | 22 514                          |      |
| 34                              | 571 14 470                      | 79.99             | 45.49             | 84.29             | 0.3813 | 0.2168 | 0.4018 | 292.4           | -1 522c                         | 24 522                          |      |
| 35                              | 575 14 475                      | 77.5              | 42.83             | 84.29             | 0.3787 | 0.2093 | 0.4119 | 290.1           | -1 525c                         | 25 525                          | Mm   |
| 36                              | 581 16 480                      | 73.49             | 39.56             | 91.09             | 0.36   | 0.1938 | 0.4461 | 280.8           | -1 538c                         | 27 538                          |      |
| 39                              | 595 17 485                      | 62.31             | 32.04             | 93.32             | 0.332  | 0.1707 | 0.4972 | 269.5           | -1 549c                         | 29 549                          |      |
| -1                              | 490c 18 490                     | 26.16             | 16.24             | 95.0              | 0.1904 | 0.1182 | 0.6913 | 236.4           | 11 459                          | 33 568                          | min  |
| -1                              | 495c 19 495                     | 26.2              | 17.45             | 96.3              | 0.1872 | 0.1246 | 0.688  | 235.0           | 12 461                          | 33 568                          |      |
| -1                              | 499c 19 500                     | 26.2              | 17.45             | 96.3              | 0.1872 | 0.1246 | 0.688  | 235.0           | 12 461                          | 33 568                          |      |
| -1                              | 510c 22 510                     | 26.32             | 23.15             | 98.63             | 0.1777 | 0.1563 | 0.6659 | 228.6           | 13 469                          | 34 571                          |      |
| -1                              | 520c 24 520                     | 26.87             | 29.0              | 99.3              | 0.1731 | 0.1868 | 0.6399 | 222.4           | 14 473                          | 34 574                          | Bm   |
| -1                              | 530c 26 530                     | 28.25             | 36.11             | 99.66             | 0.1722 | 0.2201 | 0.6075 | 215.1           | 15 477                          | 35 577                          |      |
| -1                              | 540c 28 540                     | 30.67             | 43.99             | 99.83             | 0.1757 | 0.2521 | 0.5721 | 207.2           | 15 479                          | 36 581                          |      |
| -1                              | 545c 29 545                     | 32.31             | 48.09             | 99.88             | 0.1792 | 0.2667 | 0.554  | 203.3           | 16 480                          | 36 583                          |      |
| -1                              | 549c 29 550                     | 32.31             | 48.09             | 99.88             | 0.1792 | 0.2667 | 0.554  | 203.3           | 16 480                          | 36 583                          |      |
| -1                              | 554c 30 555                     | 34.27             | 52.22             | 99.91             | 0.1838 | 0.2801 | 0.5359 | 199.5           | 16 482                          | 37 585                          |      |
| -1                              | 560c 32 560                     | 39.2              | 60.45             | 99.94             | 0.1964 | 0.3028 | 0.5007 | 192.5           | 16 483                          | 38 590                          |      |
| 380                             | 770                             | 88.59             | 88.59             | 88.59             | 0.3333 | 0.3333 | 0.3333 | 0.0             |                                 |                                 |      |

1-000430-L0

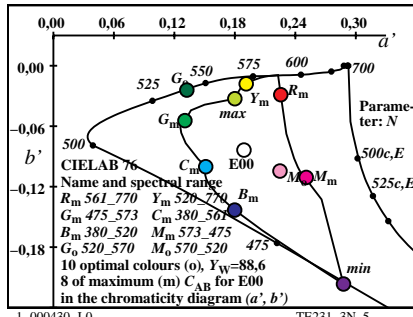
TE230-7N\_5

TUB-test chart TE23; maximum C<sub>AB</sub>, Y<sub>m</sub>=520\_770  
XYZ, xyz, h data, E00, Y<sub>w</sub>=88,6, Parameter: Name



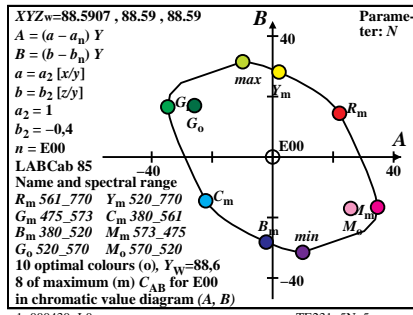
1-000430-L0

TE231-1N\_5



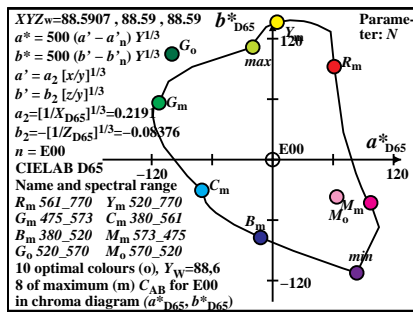
1-000430-L0

TE231-3N\_5



1-000430-L0

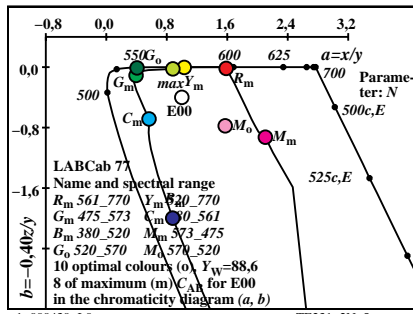
TE231-5N\_5



1-000430-L0

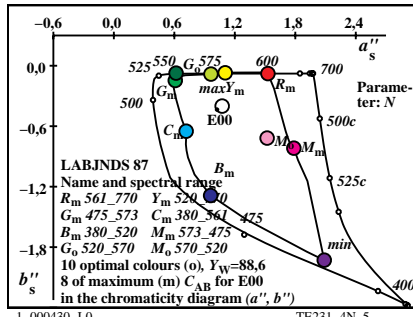
TE231-7N\_5

input: w/rgb/cmyk -> w/rgb/cmyk  
output: no change



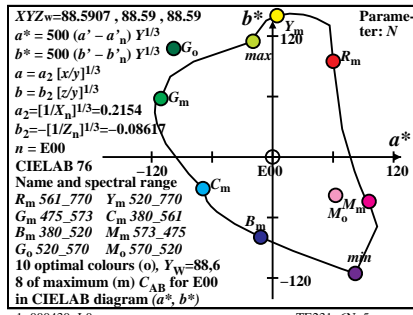
1-000430-L0

TE231-2N\_5



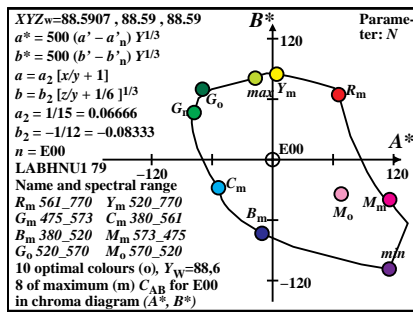
1-000430-L0

TE231-4N\_5



1-000430-L0

TE231-6N\_5



1-000430-L0

TE231-8N\_5

TUB registration: 20130201-TE23/TE23LONA.TXT /PS  
application for measurement of display output

TUB material: code=rh4ta

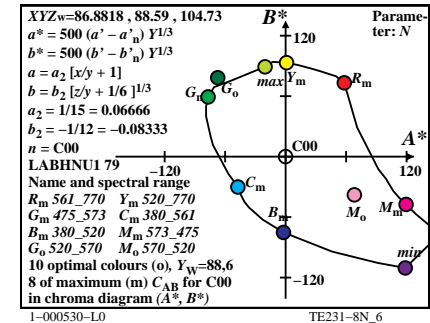
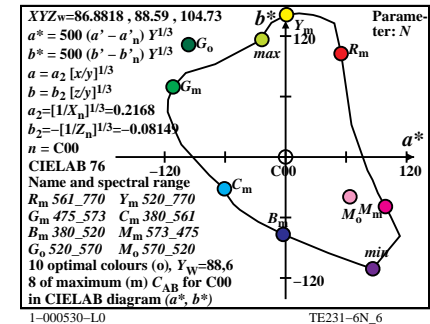
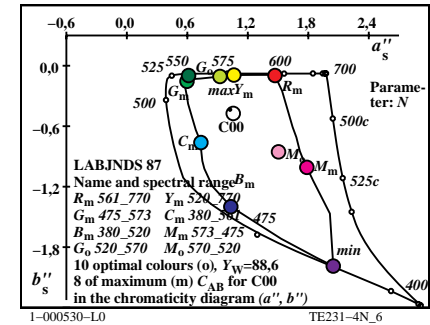
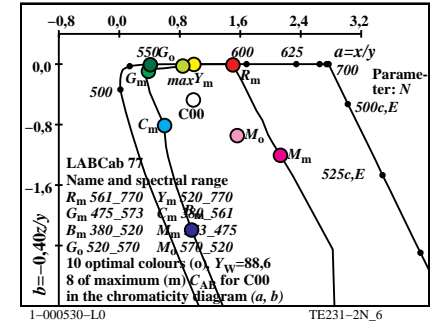
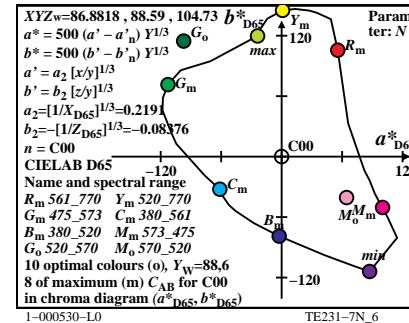
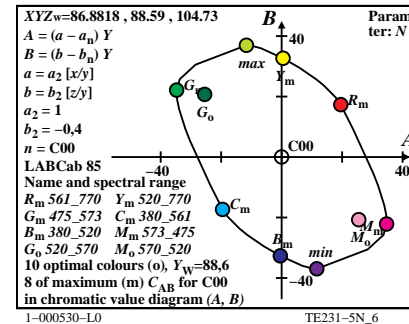
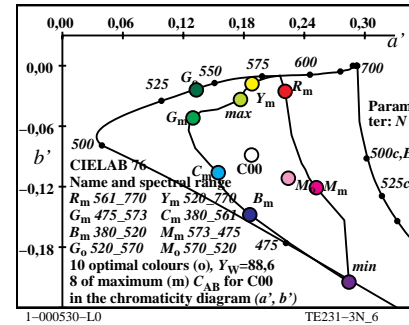
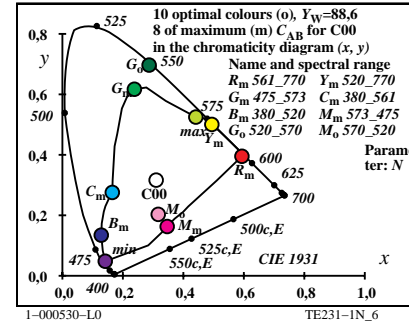
Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for C00,  $Y_w=88.6$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{88.6}$ | $Y_{88.6}$ | $Z_{88.6}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code       |
|------------------|------------------|------------|------------|------------|--------|--------|--------|----------|------------------|------------------|------------|
| 1                | 405              | 32 562     | 30.57      | 51.1       | 103.67 | 0.1649 | 0.2756 | 0.5593   | 195.5            | 16 482           | 37 589 Cm  |
| 6                | 435              | 32 563     | 27.1       | 51.69      | 84.28  | 0.1661 | 0.3169 | 0.5168   | 179.6            | 17 486           | 42 612     |
| 10               | 450              | 32 564     | 21.08      | 52.35      | 48.7   | 0.1726 | 0.4286 | 0.3987   | 140.6            | 19 496           | -1 496c    |
| 11               | 460              | 33 566     | 20.72      | 53.63      | 39.94  | 0.1813 | 0.4691 | 0.3494   | 130.0            | 20 501           | -1 501c    |
| 13               | 465              | 33 568     | 19.28      | 54.22      | 24.52  | 0.1967 | 0.5531 | 0.2501   | 115.5            | 22 513           | -1 513c    |
| 14               | 470              | 34 570     | 20.14      | 55.77      | 18.52  | 0.2132 | 0.5906 | 0.1961   | 109.4            | 24 522           | -1 522c    |
| 15               | 475              | 35 575     | 22.55      | 58.4       | 13.74  | 0.2381 | 0.6167 | 0.1451   | 103.4            | 26 530           | -1 530c Gm |
| 16               | 480              | 36 582     | 28.07      | 62.97      | 10.08  | 0.2775 | 0.6227 | 0.0996   | 96.0             | 28 540           | -1 540c    |
| 16               | 485              | 40 602     | 43.26      | 73.14      | 10.09  | 0.342  | 0.5781 | 0.0798   | 83.0             | 30 551           | -1 551c    |
| 18               | 490              | -1 490c    | 69.45      | 82.68      | 5.32   | 0.441  | 0.525  | 0.0338   | 57.8             | 33 566           | 11 459 max |
| 19               | 495              | -1 495c    | 69.4       | 81.3       | 3.83   | 0.449  | 0.526  | 0.0248   | 56.4             | 33 567           | 12 462     |
| 19               | 500              | -1 499c    | 69.4       | 81.3       | 3.83   | 0.449  | 0.526  | 0.0248   | 56.4             | 33 567           | 12 462     |
| 21               | 510              | -1 509c    | 69.36      | 77.66      | 1.92   | 0.4656 | 0.5214 | 0.0128   | 52.8             | 33 568           | 13 466     |
| 24               | 520              | -1 520c    | 68.74      | 69.63      | 0.69   | 0.4943 | 0.5006 | 0.0049   | 45.0             | 34 572           | 14 472 Ym  |
| 26               | 530              | -1 530c    | 67.38      | 62.62      | 0.34   | 0.5169 | 0.4804 | 0.0026   | 38.4             | 35 575           | 15 475     |
| 28               | 540              | -1 540c    | 64.9       | 54.54      | 0.16   | 0.5425 | 0.456  | 0.0013   | 31.0             | 35 579           | 15 478     |
| 28               | 545              | -1 544c    | 64.9       | 54.54      | 0.16   | 0.5425 | 0.456  | 0.0013   | 31.0             | 35 579           | 15 478     |
| 29               | 550              | -1 549c    | 63.17      | 50.25      | 0.11   | 0.5563 | 0.4425 | 0.001    | 27.1             | 36 581           | 15 479     |
| 31               | 555              | -1 555c    | 58.67      | 41.49      | 0.06   | 0.5853 | 0.4139 | 0.0006   | 19.5             | 37 586           | 16 481     |
| 31               | 560              | -1 559c    | 58.67      | 41.49      | 0.06   | 0.5853 | 0.4139 | 0.0006   | 19.5             | 37 586           | 16 481     |
| 32               | 562              | 1 405      | 67.5       | 48.89      | 14.54  | 0.5154 | 0.3734 | 0.111    | 15.5             | 37 589           | 16 482 Rm  |
| 32               | 563              | 6 435      | 70.97      | 48.3       | 33.93  | 0.4632 | 0.3152 | 0.2215   | 359.6            | 42 612           | 17 486     |
| 32               | 564              | 10 450     | 76.98      | 47.64      | 69.52  | 0.3965 | 0.2454 | 0.358    | 320.7            | -1 496c          | 19 496     |
| 33               | 566              | 11 460     | 77.34      | 46.36      | 78.27  | 0.3829 | 0.2295 | 0.3875   | 310.1            | -1 501c          | 20 501     |
| 33               | 568              | 13 465     | 78.78      | 45.77      | 93.7   | 0.3609 | 0.2097 | 0.4293   | 295.6            | -1 513c          | 22 513     |
| 34               | 570              | 14 470     | 77.92      | 44.22      | 99.7   | 0.3512 | 0.1993 | 0.4494   | 289.4            | -1 522c          | 24 522     |
| 35               | 575              | 15 475     | 75.51      | 41.59      | 104.48 | 0.3407 | 0.1876 | 0.4715   | 283.4            | -1 530c          | 26 530     |
| 36               | 582              | 16 480     | 70.0       | 37.02      | 108.14 | 0.3253 | 0.172  | 0.5025   | 276.0            | -1 540c          | 28 540     |
| 40               | 602              | 16 485     | 54.8       | 26.85      | 108.13 | 0.2887 | 0.1415 | 0.5697   | 263.0            | -1 551c          | 30 551     |
| -1               | 490c             | 18 490     | 28.61      | 17.31      | 112.89 | 0.1801 | 0.109  | 0.7107   | 237.9            | 11 459           | 33 566 min |
| -1               | 495c             | 19 495     | 28.66      | 18.69      | 114.38 | 0.1772 | 0.1155 | 0.7071   | 236.5            | 12 462           | 33 567     |
| -1               | 499c             | 19 500     | 28.66      | 18.69      | 114.38 | 0.1772 | 0.1155 | 0.7071   | 236.5            | 12 462           | 33 567     |
| -1               | 509c             | 21 510     | 28.7       | 22.33      | 116.3  | 0.1715 | 0.1334 | 0.6949   | 232.8            | 13 466           | 33 568     |
| -1               | 520c             | 24 520     | 29.32      | 30.36      | 117.53 | 0.1654 | 0.1713 | 0.6632   | 225.0            | 14 472           | 34 572 Bm  |
| -1               | 530c             | 26 530     | 30.68      | 37.37      | 117.88 | 0.165  | 0.201  | 0.6339   | 218.4            | 15 475           | 35 575     |
| -1               | 540c             | 28 540     | 33.16      | 45.45      | 118.05 | 0.1686 | 0.231  | 0.6002   | 211.0            | 15 478           | 35 579     |
| -1               | 544c             | 28 545     | 33.16      | 45.45      | 118.05 | 0.1686 | 0.231  | 0.6002   | 211.0            | 15 478           | 35 579     |
| -1               | 549c             | 29 550     | 34.89      | 49.74      | 118.1  | 0.1721 | 0.2453 | 0.5825   | 207.1            | 15 479           | 36 581     |
| -1               | 555c             | 31 555     | 39.39      | 58.5       | 118.15 | 0.1823 | 0.2707 | 0.5468   | 199.5            | 16 481           | 37 586     |
| -1               | 559c             | 31 560     | 39.39      | 58.5       | 118.15 | 0.1823 | 0.2707 | 0.5468   | 199.5            | 16 481           | 37 586     |
| 380              | 770              | 86.88      | 88.59      | 104.73     | 0.31   | 0.3161 | 0.3737 | 0.0      |                  |                  |            |

1-000530-L0

TE230-7N\_6

TUB-test chart TE23; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
 XYZ,  $xyz$ ,  $h$  data, C00,  $Y_w=88,6$ , Parameter: Name



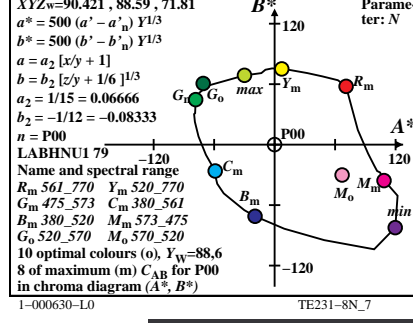
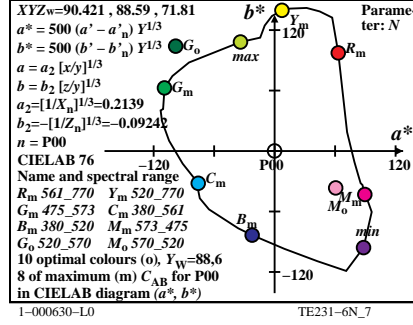
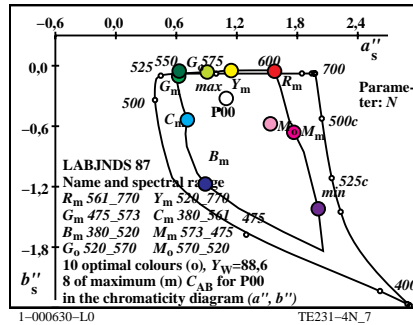
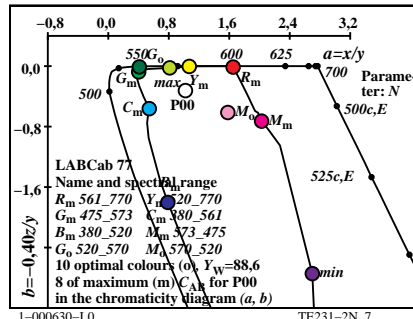
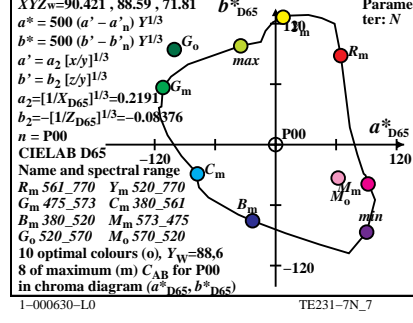
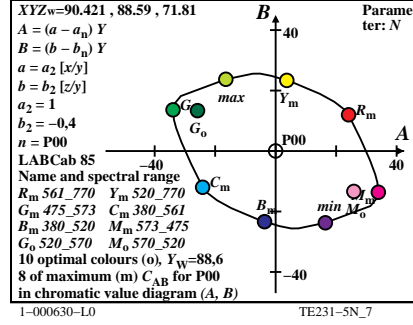
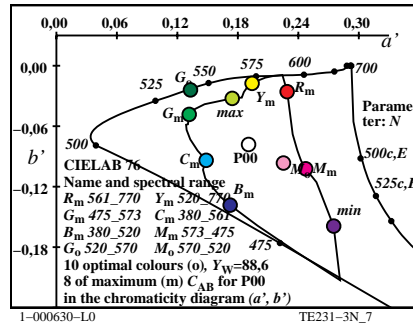
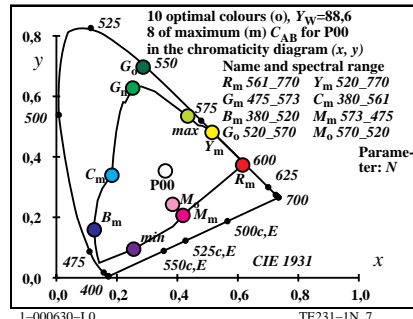
input: w/rgb/cmyk -> w/rgb/cmyk-  
 output: no change



Ostwald optimal colours (o) of maximum (m) C<sub>AB</sub> for P00, Y<sub>w</sub>=88,6, Y<sub>m</sub>=520\_770

| i <sub>1</sub> , λ <sub>1</sub> | i <sub>2</sub> , λ <sub>2</sub> | X <sub>88,6</sub> | Y <sub>88,6</sub> | Z <sub>88,6</sub> | x      | y      | z      | h <sub>xy</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |
|---------------------------------|---------------------------------|-------------------|-------------------|-------------------|--------|--------|--------|-----------------|---------------------------------|---------------------------------|------|
| 1                               | 405 33 567                      | 27.24             | 50.33             | 70.7              | 0.1837 | 0.3394 | 0.4768 | 184.4           | 17 486                          | 38 594                          | Cm   |
| 7                               | 435 33 567                      | 23.68             | 50.61             | 51.5              | 0.1882 | 0.4023 | 0.4093 | 164.0           | 18 491                          | -1 491c                         |      |
| 10                              | 450 33 568                      | 20.95             | 51.06             | 33.95             | 0.1977 | 0.4818 | 0.3204 | 141.6           | 19 499                          | -1 499c                         |      |
| 12                              | 460 34 570                      | 19.8              | 51.65             | 22.7              | 0.2103 | 0.5485 | 0.2411 | 127.5           | 21 507                          | -1 507c                         |      |
| 13                              | 465 34 571                      | 19.82             | 52.22             | 17.84             | 0.2205 | 0.5809 | 0.1984 | 121.5           | 22 513                          | -1 513c                         |      |
| 13                              | 470 34 572                      | 21.05             | 53.56             | 17.84             | 0.2277 | 0.5792 | 0.1929 | 120.4           | 23 515                          | -1 515c                         |      |
| 15                              | 475 35 575                      | 22.09             | 54.9              | 10.5              | 0.2524 | 0.6274 | 0.12   | 111.4           | 25 529                          | -1 529c                         | Gm   |
| 16                              | 480 36 580                      | 25.6              | 57.9              | 7.96              | 0.2799 | 0.6329 | 0.087  | 106.0           | 27 537                          | -1 537c                         |      |
| 17                              | 485 37 589                      | 33.5              | 63.52             | 6.02              | 0.325  | 0.6164 | 0.0584 | 97.6            | 29 547                          | -1 547c                         |      |
| 18                              | 490 45 625                      | 63.97             | 78.78             | 4.54              | 0.4342 | 0.5348 | 0.0308 | 67.8            | 32 564                          | -1 564c                         | max  |
| 18                              | 495 -1 494c                     | 78.64             | 84.48             | 4.54              | 0.469  | 0.5038 | 0.0271 | 54.2            | 34 570                          | 12 460                          |      |
| 20                              | 500 -1 500c                     | 78.59             | 82.05             | 2.49              | 0.4817 | 0.5029 | 0.0153 | 50.9            | 34 571                          | 13 465                          |      |
| 22                              | 510 -1 510c                     | 78.49             | 78.23             | 1.29              | 0.4967 | 0.495  | 0.0081 | 46.1            | 34 573                          | 14 470                          |      |
| 24                              | 520 -1 520c                     | 77.98             | 72.8              | 0.66              | 0.5148 | 0.4807 | 0.0043 | 39.5            | 35 575                          | 14 474                          | Ym   |
| 25                              | 530 -1 529c                     | 77.44             | 69.57             | 0.47              | 0.525  | 0.4717 | 0.0032 | 35.7            | 35 577                          | 15 476                          |      |
| 28                              | 540 -1 540c                     | 74.34             | 58.47             | 0.16              | 0.559  | 0.4397 | 0.0012 | 23.5            | 36 582                          | 16 481                          |      |
| 28                              | 545 -1 544c                     | 74.34             | 58.47             | 0.16              | 0.559  | 0.4397 | 0.0012 | 23.5            | 36 582                          | 16 481                          |      |
| 30                              | 550 -1 550c                     | 70.8              | 50.39             | 0.08              | 0.5837 | 0.4155 | 0.0007 | 15.5            | 37 586                          | 16 483                          |      |
| 30                              | 555 -1 554c                     | 70.8              | 50.39             | 0.08              | 0.5837 | 0.4155 | 0.0007 | 15.5            | 37 586                          | 16 483                          |      |
| 32                              | 560 -1 560c                     | 65.87             | 42.17             | 0.05              | 0.6093 | 0.3901 | 0.0005 | 8.4             | 38 591                          | 17 485                          |      |
| 33                              | 567 1 405                       | 74.81             | 49.66             | 10.35             | 0.5548 | 0.3683 | 0.0767 | 4.4             | 38 594                          | 17 486                          | Rm   |
| 33                              | 567 7 435                       | 78.37             | 49.38             | 29.55             | 0.4982 | 0.3139 | 0.1878 | 344.0           | -1 491c                         | 18 491                          |      |
| 33                              | 568 10 450                      | 81.11             | 48.93             | 47.1              | 0.4578 | 0.2762 | 0.2659 | 321.7           | -1 499c                         | 19 499                          |      |
| 34                              | 570 12 460                      | 82.26             | 48.34             | 58.35             | 0.4353 | 0.2558 | 0.3088 | 307.5           | -1 507c                         | 21 507                          |      |
| 34                              | 571 13 465                      | 82.23             | 47.77             | 63.21             | 0.4256 | 0.2472 | 0.3271 | 301.6           | -1 513c                         | 22 513                          |      |
| 34                              | 572 13 470                      | 81.0              | 46.43             | 63.21             | 0.4248 | 0.2435 | 0.3315 | 300.4           | -1 515c                         | 23 515                          |      |
| 35                              | 575 15 475                      | 79.97             | 45.09             | 70.55             | 0.4088 | 0.2305 | 0.3606 | 291.5           | -1 529c                         | 25 529                          | Mm   |
| 36                              | 580 16 480                      | 76.45             | 42.09             | 73.09             | 0.3989 | 0.2196 | 0.3814 | 286.0           | -1 537c                         | 27 537                          |      |
| 37                              | 589 17 485                      | 68.56             | 36.47             | 75.03             | 0.3807 | 0.2025 | 0.4167 | 277.6           | -1 547c                         | 29 547                          |      |
| 45                              | 625 18 490                      | 38.09             | 21.21             | 76.51             | 0.2804 | 0.1561 | 0.5633 | 247.9           | -1 564c                         | 32 564                          | min  |
| -1                              | 494c 18 495                     | 23.42             | 15.51             | 76.51             | 0.2028 | 0.1343 | 0.6627 | 234.2           | 12 460                          | 34 570                          |      |
| -1                              | 500c 20 500                     | 23.47             | 17.94             | 78.56             | 0.1956 | 0.1495 | 0.6548 | 231.0           | 13 465                          | 34 571                          |      |
| -1                              | 510c 22 510                     | 23.56             | 21.76             | 79.76             | 0.1883 | 0.1739 | 0.6376 | 226.1           | 14 470                          | 34 573                          |      |
| -1                              | 520c 24 520                     | 24.07             | 27.19             | 80.39             | 0.1828 | 0.2065 | 0.6105 | 219.5           | 14 474                          | 35 575                          | Bm   |
| -1                              | 529c 25 530                     | 24.61             | 30.42             | 80.58             | 0.1815 | 0.2243 | 0.5941 | 215.7           | 15 476                          | 35 577                          |      |
| -1                              | 540c 28 540                     | 27.72             | 41.52             | 80.89             | 0.1846 | 0.2765 | 0.5388 | 203.5           | 16 481                          | 36 582                          |      |
| -1                              | 544c 28 545                     | 27.72             | 41.52             | 80.89             | 0.1846 | 0.2765 | 0.5388 | 203.5           | 16 481                          | 36 582                          |      |
| -1                              | 550c 30 550                     | 31.26             | 49.6              | 80.97             | 0.1931 | 0.3065 | 0.5003 | 195.6           | 16 483                          | 37 586                          |      |
| -1                              | 554c 30 555                     | 31.26             | 49.6              | 80.97             | 0.1931 | 0.3065 | 0.5003 | 195.6           | 16 483                          | 37 586                          |      |
| -1                              | 560c 32 560                     | 36.19             | 57.82             | 81.0              | 0.2067 | 0.3303 | 0.4628 | 188.4           | 17 485                          | 38 591                          |      |
| 380                             | 770                             | 90.42             | 88.59             | 71.81             | 0.3604 | 0.3531 | 0.2863 | 0.0             |                                 |                                 |      |

see similar files: http://130.149.60.45/~farbmetrik/TE23/TE23.HTM  
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik



TUB-test chart TE23; maximum C<sub>AB</sub>, Y<sub>m</sub>=520\_770  
XYZ, xyz, h data, P00, Y<sub>w</sub>=88,6, Parameter: Name

input: w/rgb/cmyk -> w/rgb/cmyk  
output: no change

TUB registration: 20130201-TE23/TE23LONA.TXT /PS  
application for measurement of display output  
TUB material: code=rh4ta

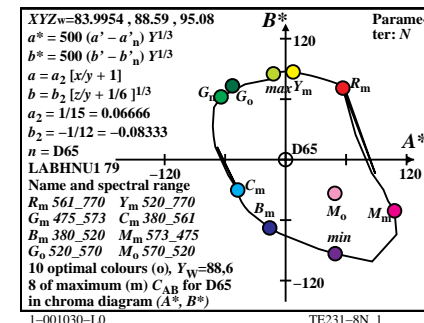
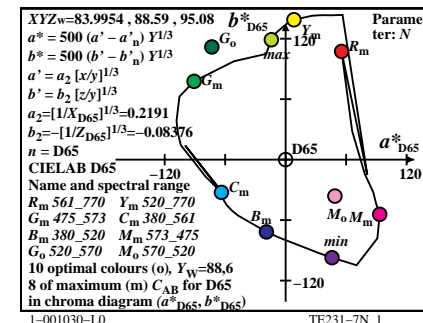
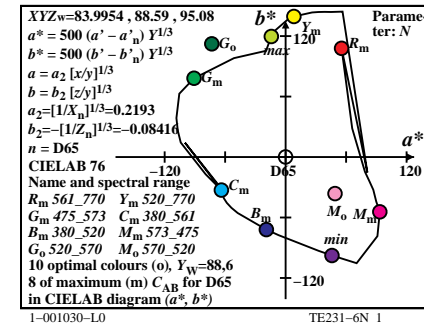
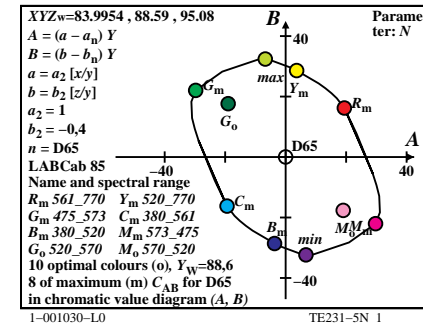
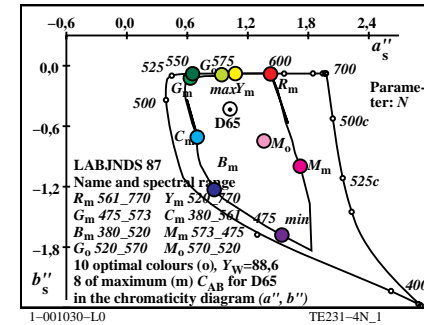
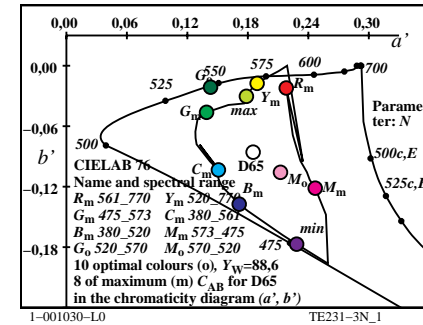
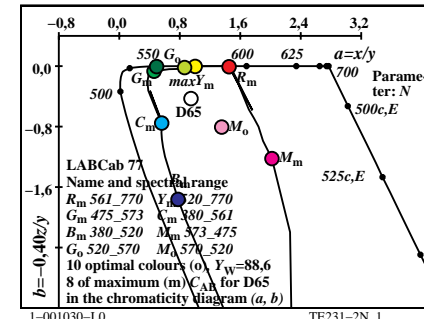
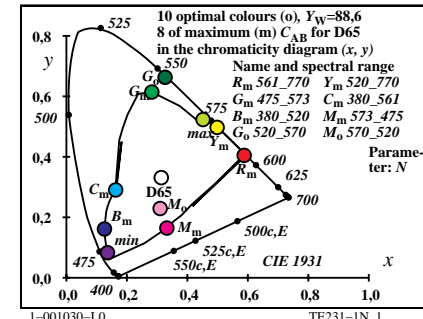




**Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for D65,  $Y_w=88.6$ ,  $Y_m=520_770$**

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{88.6}$ | $Y_{88.6}$ | $Z_{88.6}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code              |
|------------------|------------------|------------|------------|------------|--------|--------|--------|----------|------------------|------------------|-------------------|
| 0                | 405              | 31         | 556        | 28.12      | 50.11  | 94.37  | 0.1629 | 0.2903   | 0.5467           | 195.0            | 15 476 37 585 Cm  |
| 6                | 435              | 31         | 557        | 24.8       | 50.86  | 74.08  | 0.1656 | 0.3396   | 0.4947           | 176.6            | 16 480 44 621     |
| 10               | 450              | 31         | 559        | 19.54      | 50.96  | 41.21  | 0.1749 | 0.4561   | 0.3689           | 137.9            | 18 491 -1 491c    |
| 11               | 460              | 32         | 562        | 19.75      | 52.51  | 33.04  | 0.1875 | 0.4986   | 0.3137           | 126.9            | 19 498 -1 498c    |
| 12               | 465              | 33         | 565        | 20.22      | 53.96  | 25.67  | 0.2025 | 0.5403   | 0.2571           | 117.9            | 21 506 -1 506c    |
| 14               | 470              | 34         | 570        | 21.81      | 55.87  | 14.19  | 0.2373 | 0.6081   | 0.1544           | 105.3            | 24 522 -1 522c    |
| 15               | 475              | 35         | 579        | 27.93      | 60.81  | 10.22  | 0.2822 | 0.6144   | 0.1032           | 96.3             | 26 533 -1 533c Gm |
| 16               | 480              | 41         | 606        | 47.87      | 72.59  | 7.29   | 0.3746 | 0.5682   | 0.0571           | 75.5             | 30 550 -1 550c    |
| 16               | 485              | -1         | 484c       | 68.26      | 81.76  | 7.29   | 0.4339 | 0.5197   | 0.0463           | 57.5             | 32 560 10 454     |
| 18               | 490              | -1         | 490c       | 68.1       | 78.9   | 3.72   | 0.4518 | 0.5234   | 0.0247           | 54.3             | 32 562 11 459 max |
| 19               | 495              | -1         | 495c       | 68.08      | 77.11  | 2.63   | 0.4605 | 0.5216   | 0.0178           | 52.4             | 32 563 12 461     |
| 19               | 500              | -1         | 499c       | 68.08      | 77.11  | 2.63   | 0.4605 | 0.5216   | 0.0178           | 52.4             | 32 563 12 461     |
| 22               | 510              | -1         | 510c       | 67.71      | 70.07  | 0.89   | 0.4882 | 0.5052   | 0.0064           | 44.9             | 33 566 13 466     |
| 23               | 520              | -1         | 519c       | 67.33      | 67.16  | 0.6    | 0.4983 | 0.4971   | 0.0045           | 41.9             | 33 568 13 468 Ym  |
| 26               | 530              | -1         | 530c       | 64.81      | 56.85  | 0.14   | 0.532  | 0.4667   | 0.0012           | 31.8             | 34 573 14 472     |
| 27               | 540              | -1         | 539c       | 63.44      | 53.07  | 0.07   | 0.5441 | 0.4551   | 0.0006           | 28.3             | 35 576 14 473     |
| 28               | 545              | -1         | 544c       | 61.79      | 49.2   | 0.03   | 0.5565 | 0.4431   | 0.0003           | 24.7             | 35 578 14 474     |
| 29               | 550              | -1         | 549c       | 59.85      | 45.28  | 0.01   | 0.5691 | 0.4306   | 0.0001           | 21.3             | 36 580 15 475     |
| 31               | 555              | -1         | 555c       | 55.06      | 37.53  | 0.0    | 0.5946 | 0.4053   | 0.0              | 14.8             | 37 586 15 476     |
| 32               | 560              | 10         | 451        | 62.45      | 35.47  | 51.78  | 0.4171 | 0.2369   | 0.3458           | 317.7            | -1 492c 18 492    |
| 31               | 556              | 0          | 405        | 66.68      | 49.88  | 12.95  | 0.5148 | 0.3851   | 0.1              | 15.0             | 37 585 15 476 Rm  |
| 31               | 557              | 6          | 435        | 70.0       | 49.13  | 33.24  | 0.4594 | 0.3224   | 0.2181           | 356.6            | 44 621 16 480     |
| 31               | 559              | 10         | 450        | 75.26      | 49.03  | 66.11  | 0.3952 | 0.2575   | 0.3472           | 317.9            | -1 491c 18 491    |
| 32               | 562              | 11         | 460        | 75.06      | 47.48  | 74.29  | 0.3813 | 0.2412   | 0.3774           | 307.0            | -1 498c 19 498    |
| 33               | 565              | 12         | 465        | 74.58      | 46.03  | 81.65  | 0.3687 | 0.2275   | 0.4036           | 298.0            | -1 506c 21 506    |
| 34               | 570              | 14         | 470        | 73.0       | 44.12  | 93.14  | 0.3471 | 0.2098   | 0.4429           | 285.4            | -1 522c 24 522    |
| 35               | 579              | 15         | 475        | 66.88      | 39.18  | 97.11  | 0.3291 | 0.1928   | 0.4779           | 276.3            | -1 533c 26 533 Mm |
| 41               | 606              | 16         | 480        | 46.93      | 27.4   | 100.03 | 0.2691 | 0.1571   | 0.5736           | 255.6            | -1 550c 30 550    |
| -1               | 484c             | 16         | 485        | 26.54      | 18.23  | 100.03 | 0.1833 | 0.1258   | 0.6907           | 237.5            | 10 454 32 560     |
| -1               | 490c             | 18         | 490        | 26.71      | 21.09  | 103.61 | 0.1764 | 0.1393   | 0.6842           | 234.3            | 11 459 32 562 min |
| -1               | 495c             | 19         | 495        | 26.73      | 22.88  | 104.69 | 0.1732 | 0.1482   | 0.6784           | 232.4            | 12 461 32 563     |
| -1               | 499c             | 19         | 500        | 26.73      | 22.88  | 104.69 | 0.1732 | 0.1482   | 0.6784           | 232.4            | 12 461 32 563     |
| -1               | 510c             | 22         | 510        | 27.1       | 29.92  | 106.43 | 0.1657 | 0.183    | 0.6511           | 225.0            | 13 466 33 566     |
| -1               | 519c             | 23         | 520        | 27.48      | 32.83  | 106.72 | 0.1645 | 0.1965   | 0.6389           | 222.0            | 13 468 33 568 Bm  |
| -1               | 530c             | 26         | 530        | 30.0       | 43.14  | 107.18 | 0.1663 | 0.2392   | 0.5943           | 211.8            | 14 472 34 573     |
| -1               | 539c             | 27         | 540        | 31.36      | 46.92  | 107.25 | 0.169  | 0.2529   | 0.578            | 208.3            | 14 473 35 576     |
| -1               | 544c             | 28         | 545        | 33.01      | 50.79  | 107.29 | 0.1727 | 0.2657   | 0.5614           | 204.8            | 14 474 35 578     |
| -1               | 549c             | 29         | 550        | 34.96      | 54.71  | 107.32 | 0.1774 | 0.2777   | 0.5447           | 201.3            | 15 475 36 580     |
| -1               | 555c             | 31         | 555        | 39.75      | 62.46  | 107.33 | 0.1896 | 0.298    | 0.5122           | 194.8            | 15 476 37 586     |
| 10               | 451              | 32         | 560        | 32.36      | 64.52  | 55.55  | 0.2122 | 0.4232   | 0.3644           | 137.6            | 18 492 -1 492c    |
| 380              | 770              | 83.99      | 88.59      | 95.08      | 0.3137 | 0.3309 | 0.3552 | 0.0      |                  |                  |                   |

see similar files: http://130.149.60.45/~farbmetrik/TE23/TE23.HTM  
 technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik



TUB-test chart TE23; maximum  $C_{AB}$ ,  $Y_m=520_770$   
 XYZ,  $xyz$ ,  $h$  data, D65,  $Y_w=88.6$ , Parameter: Name

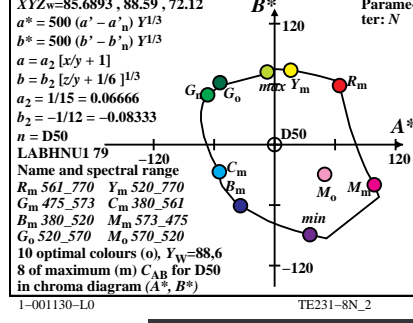
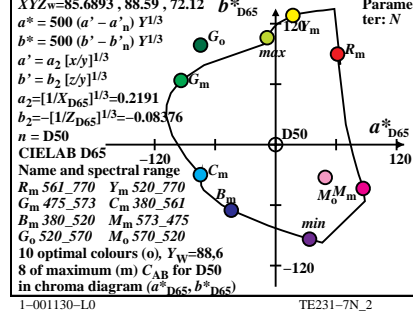
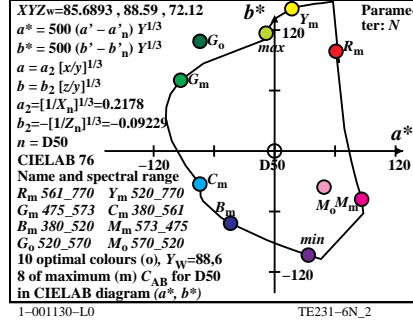
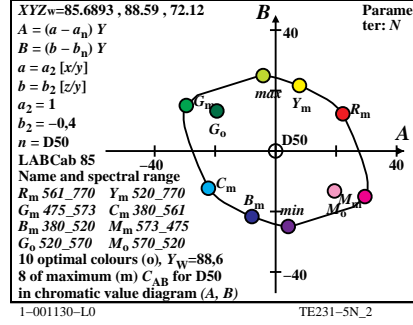
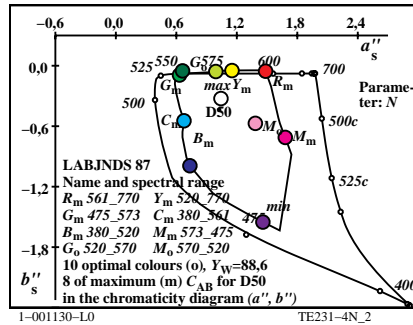
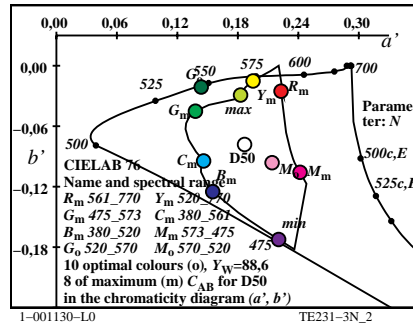
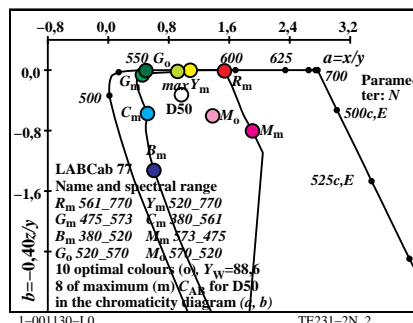
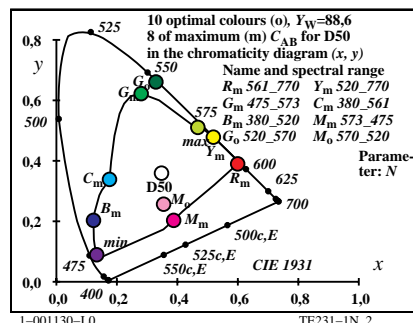
input: w/rgb/cmyk -> w/rgb/cmyk  
 output: no change

TUB registration: 20130201-TE23/TE23LONA.TXT /PS  
 application for measurement of display output  
 TUB material: code=rh4ta

Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for D50,  $Y_w=88.6$ ,  $Y_m=520_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{88.6}$ | $Y_{88.6}$ | $Z_{88.6}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code    |     |
|------------------|------------------|------------|------------|------------|--------|--------|--------|----------|------------------|------------------|---------|-----|
| 1                | 405              | 31 559     | 25.72      | 49.57      | 71.05  | 0.1757 | 0.3387 | 0.4855   | 186.9            | 15 479           | 37 589  | Cm  |
| 7                | 435              | 32 561     | 22.74      | 49.98      | 52.96  | 0.1809 | 0.3976 | 0.4213   | 167.1            | 16 484           | 58 693  |     |
| 10               | 450              | 32 562     | 19.94      | 50.19      | 33.68  | 0.1921 | 0.4834 | 0.3244   | 141.4            | 18 493           | -1 493c |     |
| 12               | 460              | 32 564     | 19.11      | 50.86      | 21.5   | 0.2089 | 0.5559 | 0.2351   | 125.2            | 20 503           | -1 503c |     |
| 13               | 465              | 33 566     | 19.68      | 51.8       | 16.41  | 0.2239 | 0.5892 | 0.1867   | 118.3            | 22 512           | -1 512c |     |
| 14               | 470              | 34 570     | 21.54      | 53.71      | 12.21  | 0.2462 | 0.614  | 0.1396   | 111.7            | 24 521           | -1 521c |     |
| 15               | 475              | 35 576     | 25.74      | 57.15      | 8.92   | 0.2803 | 0.6224 | 0.0971   | 104.3            | 26 531           | -1 531c | Gm  |
| 16               | 480              | 38 590     | 36.57      | 64.56      | 6.46   | 0.3399 | 0.6    | 0.06     | 91.8             | 28 543           | -1 543c |     |
| 17               | 485              | -1 485c    | 73.94      | 82.03      | 4.68   | 0.4602 | 0.5105 | 0.0291   | 53.2             | 32 563           | 11 458  |     |
| 18               | 490              | -1 490c    | 73.91      | 80.7       | 3.39   | 0.4677 | 0.5107 | 0.0214   | 51.5             | 32 564           | 12 460  | max |
| 19               | 495              | -1 495c    | 73.89      | 79.13      | 2.43   | 0.4753 | 0.509  | 0.0156   | 49.5             | 33 565           | 12 462  |     |
| 20               | 500              | -1 500c    | 73.85      | 77.28      | 1.72   | 0.4831 | 0.5055 | 0.0113   | 47.1             | 33 566           | 12 464  |     |
| 21               | 510              | -1 509c    | 73.75      | 75.15      | 1.22   | 0.4912 | 0.5005 | 0.0081   | 44.4             | 33 567           | 13 466  |     |
| 24               | 520              | -1 520c    | 72.64      | 66.96      | 0.39   | 0.5188 | 0.4783 | 0.0027   | 34.7             | 34 571           | 14 471  | Ym  |
| 25               | 530              | -1 529c    | 71.83      | 63.63      | 0.24   | 0.5293 | 0.4688 | 0.0018   | 31.0             | 34 573           | 14 473  |     |
| 28               | 540              | -1 540c    | 67.8       | 52.55      | 0.03   | 0.5631 | 0.4365 | 0.0002   | 19.6             | 35 579           | 15 476  |     |
| 29               | 545              | -1 545c    | 65.86      | 48.65      | 0.01   | 0.575  | 0.4248 | 0.0001   | 16.0             | 36 581           | 15 477  |     |
| 29               | 550              | -1 549c    | 65.86      | 48.65      | 0.01   | 0.575  | 0.4248 | 0.0001   | 16.0             | 36 581           | 15 477  |     |
| 31               | 555              | -1 555c    | 61.01      | 40.81      | 0.0    | 0.5991 | 0.4008 | 0.0      | 9.3              | 37 587           | 15 479  |     |
| 32               | 560              | 2 411      | 58.5       | 37.02      | 1.78   | 0.6012 | 0.3804 | 0.0183   | 4.7              | 38 591           | 16 480  |     |
| 31               | 559              | 1 405      | 70.99      | 50.42      | 10.35  | 0.5387 | 0.3826 | 0.0785   | 6.9              | 37 589           | 15 479  | Rm  |
| 32               | 561              | 7 435      | 73.98      | 50.01      | 28.44  | 0.4852 | 0.328  | 0.1866   | 347.1            | 58 693           | 16 484  |     |
| 32               | 562              | 10 450     | 76.78      | 49.8       | 47.72  | 0.4404 | 0.2857 | 0.2738   | 321.5            | -1 493c          | 18 493  |     |
| 32               | 564              | 12 460     | 77.61      | 49.13      | 59.9   | 0.4158 | 0.2632 | 0.3209   | 305.2            | -1 503c          | 20 503  |     |
| 33               | 566              | 13 465     | 77.03      | 48.19      | 64.99  | 0.4049 | 0.2533 | 0.3416   | 298.3            | -1 512c          | 22 512  |     |
| 34               | 570              | 14 470     | 75.18      | 46.28      | 69.19  | 0.3943 | 0.2427 | 0.3629   | 291.7            | -1 521c          | 24 521  |     |
| 35               | 576              | 15 475     | 70.98      | 42.84      | 72.48  | 0.3809 | 0.2299 | 0.389    | 284.4            | -1 531c          | 26 531  | Mm  |
| 38               | 590              | 16 480     | 60.14      | 35.43      | 74.95  | 0.3526 | 0.2077 | 0.4395   | 271.9            | -1 543c          | 28 543  |     |
| -1               | 485c             | 17 485     | 22.77      | 17.96      | 76.72  | 0.1938 | 0.1529 | 0.6531   | 233.3            | 11 458           | 32 563  |     |
| -1               | 490c             | 18 490     | 22.81      | 19.29      | 78.02  | 0.1899 | 0.1605 | 0.6494   | 231.5            | 12 460           | 32 564  | min |
| -1               | 495c             | 19 495     | 22.83      | 20.86      | 78.97  | 0.1861 | 0.1701 | 0.6437   | 229.5            | 12 462           | 33 565  |     |
| -1               | 500c             | 20 500     | 22.86      | 22.71      | 79.68  | 0.1825 | 0.1813 | 0.636    | 227.1            | 12 464           | 33 566  |     |
| -1               | 509c             | 21 510     | 22.96      | 24.84      | 80.18  | 0.1794 | 0.1941 | 0.6164   | 224.5            | 13 466           | 33 567  |     |
| -1               | 520c             | 24 520     | 24.08      | 33.03      | 81.02  | 0.1743 | 0.2391 | 0.5865   | 214.7            | 14 471           | 34 571  | Bm  |
| -1               | 529c             | 25 530     | 24.88      | 36.36      | 81.16  | 0.1747 | 0.2553 | 0.5699   | 211.0            | 14 473           | 34 573  |     |
| -1               | 540c             | 28 540     | 28.92      | 47.44      | 81.37  | 0.1833 | 0.3007 | 0.5158   | 199.6            | 15 476           | 35 579  |     |
| -1               | 545c             | 29 545     | 30.86      | 51.34      | 81.39  | 0.1886 | 0.3138 | 0.4975   | 196.0            | 15 477           | 36 581  |     |
| -1               | 549c             | 29 550     | 30.86      | 51.34      | 81.39  | 0.1886 | 0.3138 | 0.4975   | 196.0            | 15 477           | 36 581  |     |
| -1               | 555c             | 31 555     | 35.7       | 59.18      | 81.41  | 0.2025 | 0.3356 | 0.4617   | 189.3            | 15 479           | 37 587  |     |
| 2                | 411              | 32 560     | 38.21      | 62.97      | 79.63  | 0.2113 | 0.3482 | 0.4403   | 184.7            | 16 480           | 38 591  |     |
| 380              | 770              | 85.68      | 88.58      | 72.12      | 0.3477 | 0.3595 | 0.2927 | 0.0      |                  |                  |         |     |

see similar files: http://130.149.60.45/~farbmetrik/TE23/TE23.HTM  
 technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik



TUB-test chart TE23; maximum  $C_{AB}$ ,  $Y_m=520_770$   
 XYZ,  $xyz$ ,  $h$  data, D50,  $Y_w=88.6$ , Parameter: Name

input: w/rgb/cmyk -> w/rgb/cmyk  
 output: no change

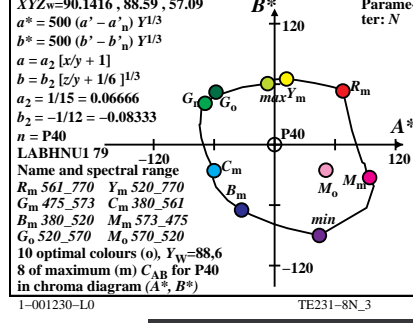
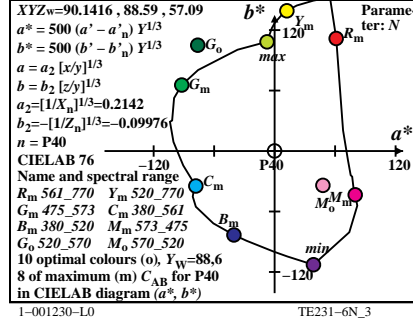
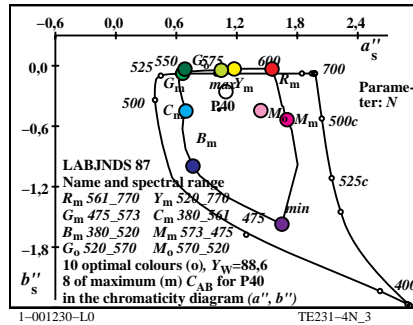
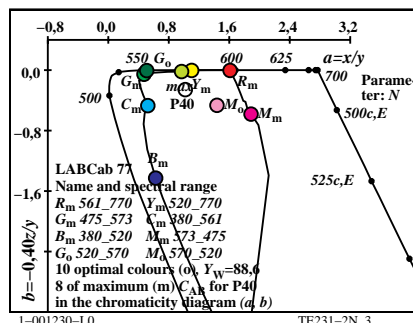
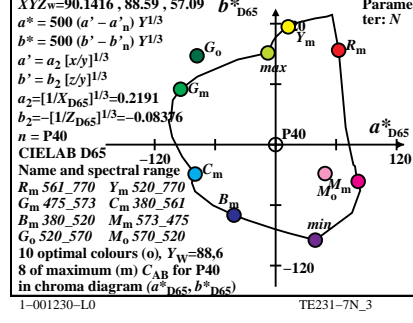
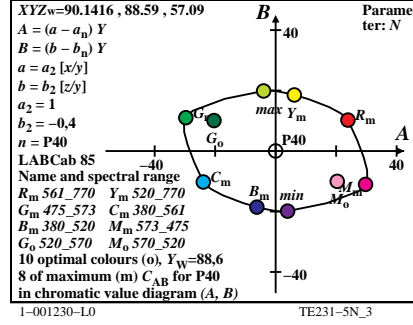
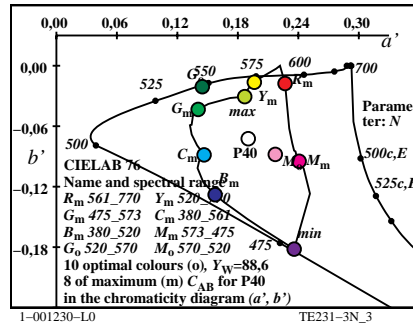
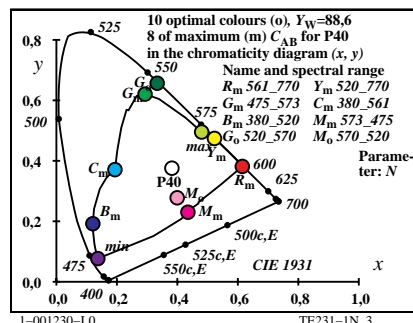
TUB registration: 20130201-TE23/TE23LONA.TXT /PS  
 application for measurement of display output

TUB material: code=rh4ta

**Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for P40,  $Y_w=88.6$ ,  $Y_m=520\_770$**

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{88.6}$ | $Y_{88.6}$ | $Z_{88.6}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$  | Code              |
|------------------|------------------|------------|------------|------------|--------|--------|--------|----------|------------------|-------------------|-------------------|
| 0                | 405              | 32         | 563        | 25.22      | 48.29  | 56.71  | 0.1937 | 0.3708   | 0.4354           | 181.4             | 16 481 38 591 Cm  |
| 7                | 435              | 32         | 564        | 22.5       | 48.56  | 40.64  | 0.2014 | 0.4347   | 0.3638           | 161.8             | 17 487 -1 487c    |
| 10               | 450              | 33         | 565        | 20.53      | 48.79  | 26.34  | 0.2146 | 0.5099   | 0.2753           | 141.2             | 19 495 -1 495c    |
| 12               | 460              | 33         | 567        | 20.14      | 49.38  | 17.32  | 0.2319 | 0.5686   | 0.1994           | 127.9             | 21 505 -1 505c    |
| 12               | 465              | 33         | 568        | 21.3       | 50.64  | 17.32  | 0.2386 | 0.5673   | 0.194            | 126.8             | 21 506 -1 506c    |
| 14               | 470              | 34         | 571        | 22.34      | 51.74  | 10.14  | 0.2652 | 0.6142   | 0.1204           | 116.0             | 24 521 -1 521c    |
| 15               | 475              | 35         | 576        | 25.73      | 54.48  | 7.56   | 0.2931 | 0.6206   | 0.0861           | 109.9             | 26 531 -1 531c Gm |
| 16               | 480              | 37         | 585        | 33.82      | 60.22  | 5.58   | 0.3394 | 0.6044   | 0.056            | 100.5             | 28 542 -1 542c    |
| 17               | 485              | 42         | 611        | 57.84      | 73.36  | 4.1    | 0.4274 | 0.5421   | 0.0303           | 74.7              | 31 558 -1 558c    |
| 17               | 490              | -1 489c    | 80.89      | 83.41      | 4.1    | 0.4803 | 0.4952 | 0.0243   | 50.6             | 33 566 11 458 max |                   |
| 19               | 495              | -1 495c    | 80.84      | 80.92      | 2.17   | 0.4931 | 0.4935 | 0.0132   | 46.7             | 33 568 12 463     |                   |
| 20               | 500              | -1 500c    | 80.81      | 79.31      | 1.56   | 0.4998 | 0.4905 | 0.0096   | 44.3             | 33 569 13 465     |                   |
| 22               | 510              | -1 510c    | 80.54      | 75.25      | 0.78   | 0.5143 | 0.4805 | 0.005    | 38.4             | 34 571 13 469     |                   |
| 23               | 520              | -1 519c    | 80.22      | 72.76      | 0.54   | 0.5225 | 0.4739 | 0.0035   | 35.0             | 34 572 14 471 Ym  |                   |
| 25               | 530              | -1 529c    | 78.98      | 66.96      | 0.22   | 0.5403 | 0.4581 | 0.0015   | 27.5             | 35 575 14 474     |                   |
| 28               | 540              | -1 540c    | 75.19      | 56.6       | 0.03   | 0.5703 | 0.4293 | 0.0002   | 15.9             | 36 581 15 477     |                   |
| 28               | 545              | -1 544c    | 75.19      | 56.6       | 0.03   | 0.5703 | 0.4293 | 0.0002   | 15.9             | 36 581 15 477     |                   |
| 30               | 550              | -1 550c    | 71.13      | 49.03      | 0.0    | 0.5919 | 0.408  | 0.0      | 8.7              | 37 585 15 479     |                   |
| 31               | 555              | -1 555c    | 68.55      | 45.14      | 0.0    | 0.6029 | 0.397  | 0.0      | 5.5              | 37 587 16 480     |                   |
| 31               | 560              | -1 559c    | 68.55      | 45.14      | 0.0    | 0.6029 | 0.397  | 0.0      | 5.5              | 37 587 16 480     |                   |
| 32               | 563              | 0          | 405        | 76.52      | 51.7   | 7.73   | 0.5628 | 0.3803   | 0.0568           | 1.4               | 38 591 16 481 Rm  |
| 32               | 564              | 7          | 435        | 79.24      | 51.43  | 23.8   | 0.5129 | 0.3329   | 0.154            | 341.9             | -1 487c 17 487    |
| 33               | 565              | 10         | 450        | 81.21      | 51.2   | 38.09  | 0.4762 | 0.3003   | 0.2234           | 321.3             | -1 495c 19 495    |
| 33               | 567              | 12         | 460        | 81.6       | 50.61  | 47.12  | 0.455  | 0.2822   | 0.2627           | 307.9             | -1 505c 21 505    |
| 33               | 568              | 12         | 465        | 80.44      | 49.35  | 47.12  | 0.4547 | 0.2789   | 0.2663           | 306.8             | -1 506c 21 506    |
| 34               | 571              | 14         | 470        | 79.4       | 48.25  | 54.29  | 0.4363 | 0.2651   | 0.2984           | 296.1             | -1 521c 24 521    |
| 35               | 576              | 15         | 475        | 76.01      | 45.51  | 56.88  | 0.426  | 0.255    | 0.3188           | 290.0             | -1 531c 26 531 Mm |
| 37               | 585              | 16         | 480        | 67.92      | 39.77  | 58.85  | 0.4078 | 0.2387   | 0.3533           | 280.6             | -1 542c 28 542    |
| 42               | 611              | 17         | 485        | 43.9       | 26.63  | 60.34  | 0.3354 | 0.2034   | 0.461            | 254.8             | -1 558c 31 558    |
| -1 489c          | 17               | 490        | 20.85      | 16.58      | 60.34  | 0.2132 | 0.1696 | 0.6171   | 230.6            | 11 458 33 566 min |                   |
| -1 495c          | 19               | 495        | 20.9       | 19.07      | 62.27  | 0.2044 | 0.1865 | 0.609    | 226.7            | 12 463 33 568     |                   |
| -1 500c          | 20               | 500        | 20.93      | 20.68      | 62.88  | 0.2003 | 0.1979 | 0.6017   | 224.3            | 13 465 33 569     |                   |
| -1 510c          | 22               | 510        | 21.2       | 24.74      | 63.66  | 0.1934 | 0.2257 | 0.5807   | 218.4            | 13 469 34 571     |                   |
| -1 519c          | 23               | 520        | 21.53      | 27.23      | 63.9   | 0.191  | 0.2417 | 0.5671   | 215.0            | 14 471 34 572 Bm  |                   |
| -1 529c          | 25               | 530        | 22.76      | 33.03      | 64.21  | 0.1897 | 0.2752 | 0.535    | 207.5            | 14 474 35 575     |                   |
| -1 540c          | 28               | 540        | 26.55      | 43.39      | 64.41  | 0.1976 | 0.3229 | 0.4794   | 195.9            | 15 477 36 581     |                   |
| -1 544c          | 28               | 545        | 26.55      | 43.39      | 64.41  | 0.1976 | 0.3229 | 0.4794   | 195.9            | 15 477 36 581     |                   |
| -1 550c          | 30               | 550        | 30.61      | 50.96      | 64.44  | 0.2096 | 0.349  | 0.4413   | 188.7            | 15 479 37 585     |                   |
| -1 555c          | 31               | 555        | 33.19      | 54.85      | 64.44  | 0.2176 | 0.3597 | 0.4226   | 185.5            | 16 480 37 587     |                   |
| -1 559c          | 31               | 560        | 33.19      | 54.85      | 64.44  | 0.2176 | 0.3597 | 0.4226   | 185.5            | 16 480 37 587     |                   |
| 380              | 770              | 90.14      | 88.59      | 57.09      | 0.3822 | 0.3756 | 0.2421 | 0.0      |                  |                   |                   |

see similar files: http://130.149.60.45/~farbmetrik/TE23/TE23.HTM  
 technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik



TUB-test chart TE23; maximum  $C_{AB}$ ,  $Y_m=520\_770$   
 XYZ,  $xyz$ ,  $h$  data, P40,  $Y_w=88.6$ , Parameter: Name

input: w/rgb/cmyk -> w/rgb/cmyk  
 output: no change

TUB registration: 20130201-TE23/TE23LONA.TXT /PS  
 application for measurement of display output

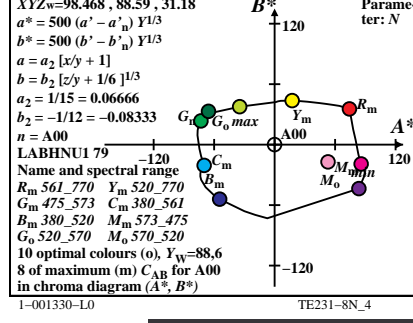
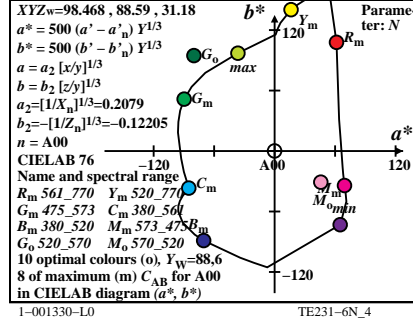
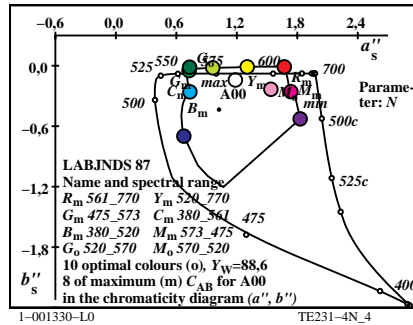
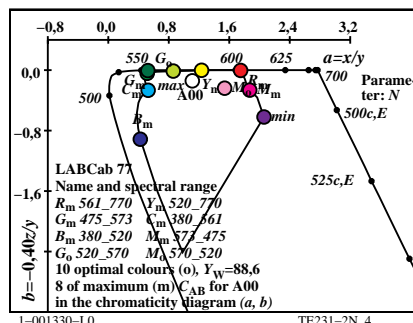
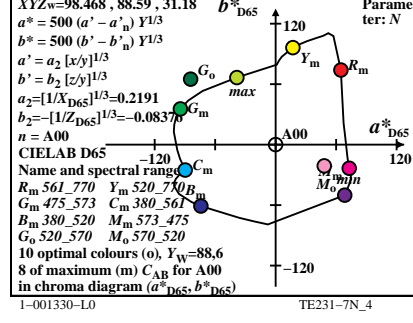
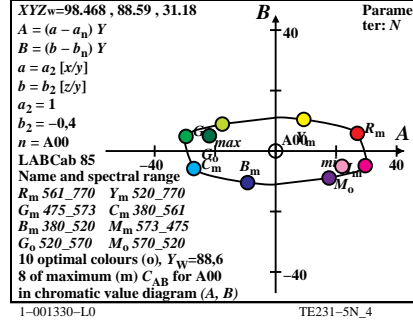
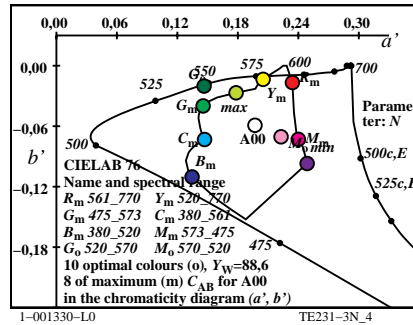
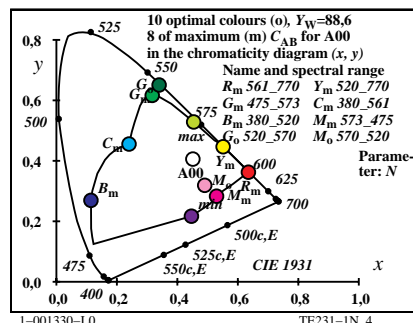
TUB material: code=rh4ta



**Ostwald optimal colours (o) of maximum (m) C<sub>AB</sub> for A00, Y<sub>w,10</sub>=88,6, Y<sub>m</sub>=520\_770**

| i <sub>1</sub> , λ <sub>1</sub> | i <sub>2</sub> , λ <sub>2</sub> | X <sub>88.6</sub> | Y <sub>88.6</sub> | Z <sub>88.6</sub> | x      | y      | z      | h <sub>xy</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |
|---------------------------------|---------------------------------|-------------------|-------------------|-------------------|--------|--------|--------|-----------------|---------------------------------|---------------------------------|------|
| 1                               | 405 34 570                      | 24.41             | 46.3              | 30.85             | 0.2404 | 0.4558 | 0.3037 | 166.6           | 17 487                          | 39 597                          | Cm   |
| 7                               | 435 34 570                      | 23.37             | 46.48             | 23.83             | 0.2494 | 0.4961 | 0.2544 | 155.9           | 18 491                          | 47 639                          |      |
| 9                               | 450 34 571                      | 22.92             | 46.75             | 19.01             | 0.2584 | 0.5271 | 0.2144 | 147.8           | 19 495                          | -1 495c                         |      |
| 12                              | 460 34 572                      | 22.3              | 46.95             | 11.32             | 0.2768 | 0.5826 | 0.1405 | 134.6           | 21 505                          | -1 505c                         |      |
| 13                              | 465 34 573                      | 22.67             | 47.37             | 9.0               | 0.2867 | 0.5992 | 0.1139 | 130.3           | 22 512                          | -1 512c                         |      |
| 14                              | 470 34 574                      | 23.6              | 48.19             | 6.99              | 0.2995 | 0.6116 | 0.0887 | 126.3           | 24 520                          | -1 520c                         |      |
| 15                              | 475 35 576                      | 25.5              | 49.59             | 5.35              | 0.3169 | 0.6164 | 0.0665 | 122.5           | 25 528                          | -1 528c                         | Gm   |
| 16                              | 480 36 581                      | 29.32             | 52.34             | 4.06              | 0.342  | 0.6105 | 0.0474 | 118.0           | 27 537                          | -1 537c                         |      |
| 17                              | 485 37 588                      | 37.11             | 57.43             | 3.06              | 0.3802 | 0.5884 | 0.0313 | 111.2           | 29 547                          | -1 547c                         |      |
| 18                              | 490 41 609                      | 60.13             | 69.96             | 2.29              | 0.4542 | 0.5284 | 0.0173 | 88.5            | 32 561                          | -1 561c                         | max  |
| 19                              | 495 -1 495c                     | 93.65             | 83.69             | 1.7               | 0.523  | 0.4674 | 0.0095 | 40.5            | 34 573                          | 13 465                          |      |
| 20                              | 500 -1 500c                     | 93.63             | 82.5              | 1.25              | 0.5278 | 0.4651 | 0.007  | 37.6            | 34 573                          | 13 468                          |      |
| 21                              | 510 -1 509c                     | 93.56             | 81.07             | 0.91              | 0.5329 | 0.4618 | 0.0052 | 34.3            | 34 574                          | 14 470                          |      |
| 24                              | 520 -1 520c                     | 92.73             | 75.08             | 0.31              | 0.5515 | 0.4465 | 0.0018 | 22.0            | 35 577                          | 15 476                          | Ym   |
| 25                              | 530 -1 529c                     | 92.11             | 72.52             | 0.2               | 0.5588 | 0.4399 | 0.0012 | 17.5            | 35 578                          | 15 477                          |      |
| 27                              | 540 -1 539c                     | 90.14             | 66.59             | 0.06              | 0.5748 | 0.4246 | 0.0004 | 8.6             | 36 581                          | 16 480                          |      |
| 29                              | 545 -1 545c                     | 86.98             | 59.77             | 0.01              | 0.5926 | 0.4072 | 0.0    | 0.5             | 37 585                          | 16 483                          |      |
| 30                              | 550 -1 550c                     | 84.87             | 56.1              | 0.0               | 0.602  | 0.3979 | 0.0    | 0.0             | 37 587                          | 16 484                          |      |
| 31                              | 555 -1 555c                     | 82.34             | 52.29             | 0.0               | 0.6116 | 0.3883 | 0.0    | 0.0             | 37 589                          | 17 485                          |      |
| 32                              | 560 -1 560c                     | 79.36             | 48.36             | 0.0               | 0.6213 | 0.3786 | 0.0    | 0.0             | 38 592                          | 17 486                          |      |
| 34                              | 570 1 405                       | 86.73             | 53.69             | 4.34              | 0.599  | 0.3709 | 0.03   | 346.6           | 39 597                          | 17 487                          | Rm   |
| 34                              | 570 7 435                       | 87.77             | 53.51             | 11.36             | 0.575  | 0.3505 | 0.0744 | 335.9           | 47 639                          | 18 491                          |      |
| 34                              | 571 9 450                       | 88.22             | 53.24             | 16.18             | 0.5596 | 0.3377 | 0.1026 | 327.8           | -1 495c                         | 19 495                          |      |
| 34                              | 572 12 460                      | 88.84             | 53.04             | 23.87             | 0.5359 | 0.32   | 0.144  | 314.6           | -1 505c                         | 21 505                          |      |
| 34                              | 573 13 465                      | 88.47             | 52.62             | 26.19             | 0.5288 | 0.3145 | 0.1565 | 310.4           | -1 512c                         | 22 512                          |      |
| 34                              | 574 14 470                      | 87.54             | 51.8              | 28.2              | 0.5224 | 0.3091 | 0.1683 | 306.4           | -1 520c                         | 24 520                          |      |
| 35                              | 576 15 475                      | 85.64             | 50.4              | 29.84             | 0.5162 | 0.3038 | 0.1798 | 302.5           | -1 528c                         | 25 528                          | Mm   |
| 36                              | 581 16 480                      | 81.82             | 47.65             | 31.13             | 0.5094 | 0.2966 | 0.1938 | 298.1           | -1 537c                         | 27 537                          |      |
| 37                              | 588 17 485                      | 74.03             | 42.56             | 32.13             | 0.4977 | 0.2861 | 0.216  | 291.2           | -1 547c                         | 29 547                          |      |
| 41                              | 609 18 490                      | 51.01             | 30.03             | 32.9              | 0.4476 | 0.2635 | 0.2887 | 268.6           | -1 561c                         | 32 561                          | min  |
| -1                              | 495c 19 495                     | 17.49             | 16.3              | 33.49             | 0.2599 | 0.2422 | 0.4977 | 220.5           | 13 465                          | 34 573                          |      |
| -1                              | 500c 20 500                     | 17.51             | 17.49             | 33.94             | 0.254  | 0.2536 | 0.4922 | 217.6           | 13 468                          | 34 573                          |      |
| -1                              | 509c 21 510                     | 17.58             | 18.92             | 34.28             | 0.2484 | 0.2672 | 0.4842 | 214.3           | 14 470                          | 34 574                          |      |
| -1                              | 520c 24 520                     | 18.41             | 24.91             | 34.88             | 0.2354 | 0.3185 | 0.446  | 202.0           | 15 476                          | 35 577                          | Bm   |
| -1                              | 529c 25 530                     | 19.03             | 27.47             | 34.99             | 0.2335 | 0.3371 | 0.4293 | 197.5           | 15 477                          | 35 578                          |      |
| -1                              | 539c 27 540                     | 21.0              | 33.4              | 35.13             | 0.2345 | 0.373  | 0.3923 | 188.6           | 16 480                          | 36 581                          |      |
| -1                              | 545c 29 545                     | 24.16             | 40.22             | 35.18             | 0.2426 | 0.4039 | 0.3533 | 180.5           | 16 483                          | 37 585                          |      |
| -1                              | 550c 30 550                     | 26.27             | 43.89             | 35.19             | 0.2494 | 0.4165 | 0.334  | 176.9           | 16 484                          | 37 587                          |      |
| -1                              | 555c 31 555                     | 28.8              | 47.7              | 35.19             | 0.2578 | 0.427  | 0.315  | 173.7           | 17 485                          | 37 589                          |      |
| -1                              | 560c 32 560                     | 31.78             | 51.63             | 35.19             | 0.2679 | 0.4352 | 0.2967 | 170.8           | 17 486                          | 38 592                          |      |
| 380                             | 770                             | 98.46             | 88.59             | 31.18             | 0.4511 | 0.4059 | 0.1428 | 0.0             |                                 |                                 |      |

see similar files: http://130.149.60.45/~farbmetrik/TE23/TE23.HTM  
 technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik



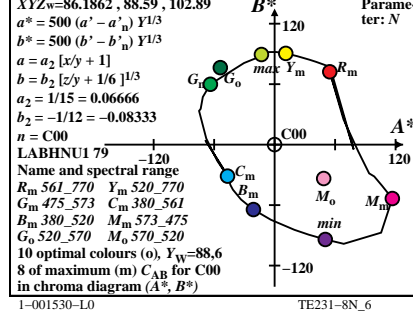
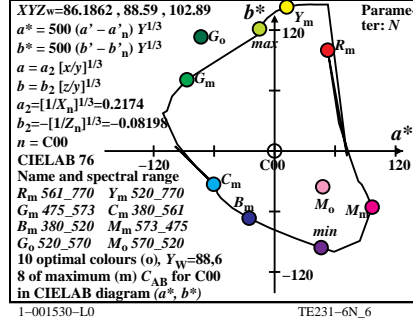
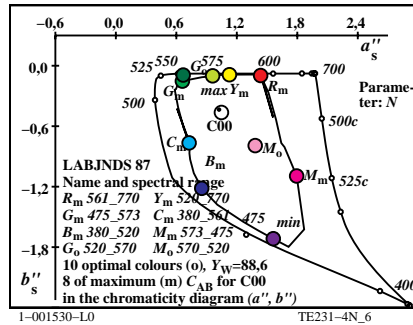
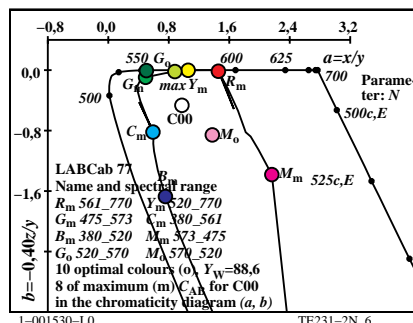
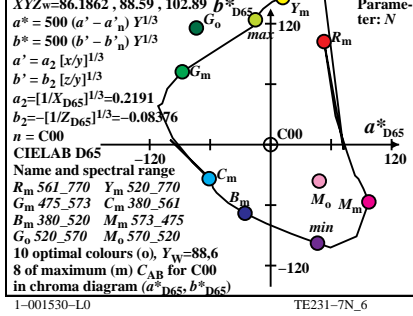
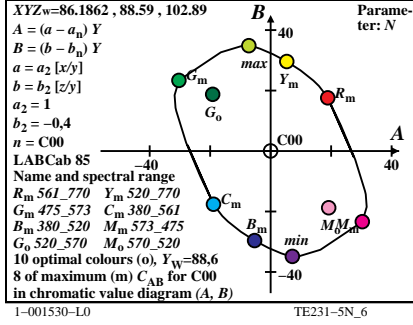
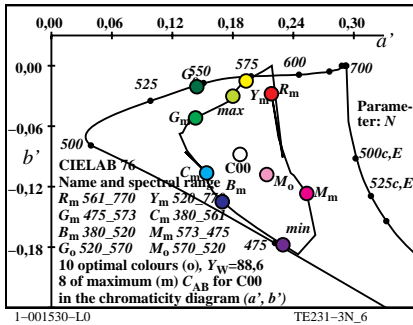
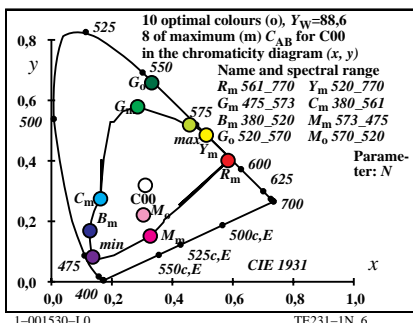


Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for C00,  $Y_w,10=88,6$ ,  $Y_m=520_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{88,6}$ | $Y_{88,6}$ | $Z_{88,6}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|------------|------------|------------|--------|--------|--------|----------|------------------|------------------|------|
| 1                | 405 31 556       | 29.28      | 49.5       | 101.47     | 0.1624 | 0.2746 | 0.5629 | 196.7    | 15 475           | 37 586           | Cm   |
| 6                | 435 31 558       | 25.71      | 50.35      | 79.37      | 0.1654 | 0.3239 | 0.5106 | 178.0    | 16 480           | 44 623           |      |
| 9                | 450 32 560       | 21.63      | 50.96      | 52.26      | 0.1732 | 0.4081 | 0.4185 | 146.9    | 17 487           | -1 487c          |      |
| 12               | 460 32 563       | 19.07      | 51.67      | 27.03      | 0.1951 | 0.5284 | 0.2764 | 118.8    | 20 504           | -1 504c          |      |
| 12               | 465 33 566       | 21.12      | 54.03      | 27.03      | 0.2066 | 0.5287 | 0.2645 | 116.2    | 21 507           | -1 507c          |      |
| 13               | 470 34 572       | 23.98      | 57.3       | 20.34      | 0.236  | 0.5638 | 0.2001 | 106.8    | 24 520           | -1 520c          |      |
| 14               | 475 36 582       | 31.09      | 63.12      | 14.85      | 0.285  | 0.5787 | 0.1362 | 95.5     | 26 533           | -1 533c          | Gm   |
| 16               | 480 44 622       | 58.22      | 76.76      | 7.52       | 0.4085 | 0.5386 | 0.0527 | 65.8     | 31 556           | 0 403            |      |
| 17               | 485 -1 485c      | 68.92      | 79.83      | 5.25       | 0.4475 | 0.5183 | 0.0341 | 55.4     | 32 562           | 11 456           |      |
| 18               | 490 -1 490c      | 68.87      | 78.19      | 3.64       | 0.457  | 0.5188 | 0.0241 | 53.7     | 32 563           | 11 459           | max  |
| 19               | 495 -1 495c      | 68.86      | 76.34      | 2.51       | 0.4661 | 0.5168 | 0.017  | 51.7     | 32 564           | 12 461           |      |
| 20               | 500 -1 500c      | 68.82      | 74.3       | 1.73       | 0.4751 | 0.5129 | 0.0119 | 49.6     | 33 565           | 12 463           |      |
| 22               | 510 -1 510c      | 68.51      | 69.61      | 0.82       | 0.493  | 0.5009 | 0.0059 | 44.8     | 33 567           | 13 466           |      |
| 24               | 520 -1 520c      | 67.63      | 64.04      | 0.37       | 0.5121 | 0.485  | 0.0028 | 39.4     | 34 570           | 13 468           | Ym   |
| 26               | 530 -1 530c      | 65.87      | 57.57      | 0.14       | 0.5329 | 0.4658 | 0.0011 | 33.3     | 34 574           | 14 471           |      |
| 28               | 540 -1 540c      | 62.96      | 50.2       | 0.03       | 0.5561 | 0.4434 | 0.0003 | 26.8     | 35 578           | 14 473           |      |
| 28               | 545 -1 544c      | 62.96      | 50.2       | 0.03       | 0.5561 | 0.4434 | 0.0003 | 26.8     | 35 578           | 14 473           |      |
| 29               | 550 -1 549c      | 61.02      | 46.31      | 0.01       | 0.5684 | 0.4314 | 0.0001 | 23.5     | 36 580           | 14 474           |      |
| 31               | 555 -1 555c      | 56.12      | 38.38      | 0.0        | 0.5938 | 0.4061 | 0.0    | 17.0     | 37 585           | 15 475           |      |
| 31               | 560 9 447        | 66.32      | 39.93      | 51.32      | 0.4208 | 0.2533 | 0.3257 | 329.3    | -1 487c          | 17 487           |      |
| 31               | 556 1 405        | 68.0       | 50.49      | 14.67      | 0.5106 | 0.3791 | 0.1101 | 16.6     | 37 586           | 15 475           | Rm   |
| 31               | 558 6 435        | 71.57      | 49.64      | 36.77      | 0.453  | 0.3142 | 0.2327 | 358.0    | 44 623           | 16 480           |      |
| 32               | 560 9 450        | 75.65      | 49.03      | 63.87      | 0.4012 | 0.26   | 0.3387 | 327.0    | -1 487c          | 17 487           |      |
| 32               | 563 12 460       | 78.2       | 48.32      | 89.11      | 0.3626 | 0.2241 | 0.4132 | 298.8    | -1 504c          | 20 504           |      |
| 33               | 566 12 465       | 76.16      | 45.96      | 89.11      | 0.3605 | 0.2175 | 0.4218 | 296.3    | -1 507c          | 21 507           |      |
| 34               | 572 13 470       | 73.29      | 42.69      | 95.8       | 0.346  | 0.2015 | 0.4523 | 286.9    | -1 520c          | 24 520           |      |
| 36               | 582 14 475       | 66.19      | 36.87      | 101.28     | 0.3239 | 0.1804 | 0.4956 | 275.6    | -1 533c          | 26 533           | Mm   |
| 44               | 622 16 480       | 39.06      | 23.23      | 108.62     | 0.2285 | 0.1359 | 0.6355 | 245.9    | 0 403            | 31 556           |      |
| -1               | 485c 17 485      | 28.35      | 20.16      | 110.89     | 0.1778 | 0.1264 | 0.6956 | 235.4    | 11 456           | 32 562           | min  |
| -1               | 490c 18 490      | 28.4       | 21.8       | 112.5      | 0.1745 | 0.134  | 0.6913 | 233.7    | 11 459           | 32 563           |      |
| -1               | 495c 19 495      | 28.42      | 23.65      | 113.62     | 0.1715 | 0.1427 | 0.6857 | 231.7    | 12 461           | 32 564           |      |
| -1               | 500c 20 500      | 28.46      | 25.69      | 114.41     | 0.1688 | 0.1524 | 0.6786 | 229.6    | 12 463           | 33 565           |      |
| -1               | 510c 22 510      | 28.77      | 30.38      | 115.31     | 0.1649 | 0.1741 | 0.6609 | 224.9    | 13 466           | 33 567           |      |
| -1               | 520c 24 520      | 29.65      | 35.95      | 115.77     | 0.1634 | 0.1982 | 0.6382 | 219.4    | 13 468           | 34 570           | Bm   |
| -1               | 530c 26 530      | 31.41      | 42.42      | 116.0      | 0.1654 | 0.2234 | 0.611  | 213.4    | 14 471           | 34 574           |      |
| -1               | 540c 28 540      | 34.32      | 49.79      | 116.1      | 0.1714 | 0.2486 | 0.5798 | 206.8    | 14 473           | 35 578           |      |
| -1               | 544c 28 545      | 34.32      | 49.79      | 116.1      | 0.1714 | 0.2486 | 0.5798 | 206.8    | 14 473           | 35 578           |      |
| -1               | 549c 29 550      | 36.25      | 53.68      | 116.13     | 0.1759 | 0.2605 | 0.5635 | 203.5    | 14 474           | 36 580           |      |
| -1               | 555c 31 555      | 41.16      | 61.61      | 116.14     | 0.188  | 0.2814 | 0.5305 | 197.0    | 15 475           | 37 585           |      |
| 9                | 447 31 560       | 30.95      | 60.06      | 64.81      | 0.1986 | 0.3854 | 0.4159 | 149.2    | 17 487           | -1 487c          |      |
| 380              | 770              | 86.18      | 88.59      | 102.89     | 0.3103 | 0.319  | 0.3705 | 0.0      |                  |                  |      |

1-001530-L0 TE230-7N\_6

TUB-test chart TE23; maximum  $C_{AB}$ ,  $Y_m=520_770$   
 XYZ,  $xyz$ ,  $h$  data, C00,  $Y_w,10=88,6$ , Parameter: Name



input: w/rgb/cmyk -> w/rgb/cmyk-  
 output: no change





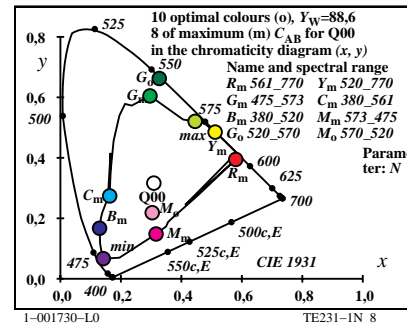
**Ostwald optimal colours (o) of maximum (m)  $C_{AB}$  for Q00,  $Y_w=88.6$ ,  $Y_m=520_770$**

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | $X_{88.6}$ | $Y_{88.6}$ | $Z_{88.6}$ | $x$    | $y$    | $z$    | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|------------|------------|------------|--------|--------|--------|----------|------------------|------------------|------|
| 1                | 405 31 556       | 29.63      | 49.88      | 102.39     | 0.1628 | 0.2742 | 0.5628 | 196.1    | 15 475           | 37 587           | Cm   |
| 7                | 435 31 558       | 23.53      | 50.34      | 67.82      | 0.166  | 0.3553 | 0.4786 | 164.7    | 16 482           | -1 482c          |      |
| 10               | 450 32 560       | 19.56      | 50.73      | 40.9       | 0.1759 | 0.4562 | 0.3678 | 133.5    | 18 493           | -1 493c          |      |
| 12               | 460 32 563       | 18.74      | 51.88      | 25.5       | 0.195  | 0.5396 | 0.2652 | 117.0    | 21 506           | -1 506c          |      |
| 13               | 465 33 566       | 19.76      | 53.44      | 19.2       | 0.2138 | 0.5783 | 0.2077 | 109.9    | 23 515           | -1 515c          |      |
| 13               | 470 34 572       | 23.64      | 57.44      | 19.2       | 0.2357 | 0.5727 | 0.1914 | 105.9    | 24 520           | -1 520c          |      |
| 15               | 475 36 583       | 30.52      | 62.39      | 10.2       | 0.296  | 0.605  | 0.0989 | 92.5     | 27 536           | -1 536c          | Gm   |
| 15               | 480 45 629       | 61.34      | 79.6       | 10.2       | 0.4058 | 0.5266 | 0.0674 | 65.2     | 31 556           | 2 413            |      |
| 17               | 485 -1 485c      | 68.63      | 80.21      | 5.23       | 0.4454 | 0.5206 | 0.0339 | 56.2     | 32 561           | 11 455           | max  |
| 17               | 490 -1 489c      | 68.63      | 80.21      | 5.23       | 0.4454 | 0.5206 | 0.0339 | 56.2     | 32 561           | 11 455           | max  |
| 18               | 495 -1 494c      | 68.58      | 78.66      | 3.71       | 0.4543 | 0.521  | 0.0246 | 54.6     | 32 562           | 11 458           |      |
| 19               | 500 -1 499c      | 68.57      | 76.87      | 2.62       | 0.463  | 0.5191 | 0.0177 | 52.7     | 32 563           | 12 460           |      |
| 21               | 510 -1 509c      | 68.42      | 72.48      | 1.28       | 0.4812 | 0.5097 | 0.009  | 48.2     | 33 566           | 12 464           |      |
| 24               | 520 -1 520c      | 67.23      | 63.73      | 0.39       | 0.5118 | 0.4851 | 0.0029 | 39.7     | 34 570           | 13 468           | Ym   |
| 26               | 530 -1 530c      | 65.35      | 56.8       | 0.14       | 0.5343 | 0.4644 | 0.0011 | 33.2     | 34 574           | 14 471           |      |
| 27               | 540 -1 539c      | 64.02      | 53.11      | 0.07       | 0.5462 | 0.4531 | 0.0006 | 29.9     | 35 576           | 14 472           |      |
| 29               | 545 -1 545c      | 60.52      | 45.54      | 0.01       | 0.5705 | 0.4293 | 0.0001 | 23.3     | 36 581           | 14 474           |      |
| 30               | 550 -1 550c      | 58.34      | 41.75      | 0.0        | 0.5828 | 0.4171 | 0.0    | 20.1     | 36 583           | 15 475           |      |
| 30               | 555 -1 554c      | 58.34      | 41.75      | 0.0        | 0.5828 | 0.4171 | 0.0    | 20.1     | 36 583           | 15 475           |      |
| 31               | 560 9 447        | 67.0       | 39.61      | 55.74      | 0.4126 | 0.2439 | 0.3433 | 325.1    | -1 488c          | 17 488           |      |
| 31               | 556 1 405        | 68.01      | 50.11      | 16.03      | 0.5069 | 0.3735 | 0.1194 | 16.0     | 37 587           | 15 475           | Rm   |
| 31               | 558 7 435        | 74.11      | 49.65      | 50.6       | 0.425  | 0.2847 | 0.2902 | 344.7    | -1 482c          | 16 482           |      |
| 32               | 560 10 450       | 78.08      | 49.26      | 77.51      | 0.3811 | 0.2404 | 0.3783 | 313.6    | -1 493c          | 18 493           |      |
| 32               | 563 12 460       | 78.9       | 48.11      | 92.92      | 0.3587 | 0.2187 | 0.4224 | 297.0    | -1 506c          | 21 506           |      |
| 33               | 566 13 465       | 77.88      | 46.55      | 99.22      | 0.3482 | 0.2081 | 0.4436 | 289.9    | -1 515c          | 23 515           |      |
| 34               | 572 13 470       | 74.0       | 42.55      | 99.22      | 0.3429 | 0.1972 | 0.4598 | 285.9    | -1 520c          | 24 520           |      |
| 36               | 583 15 475       | 67.12      | 37.6       | 108.22     | 0.3151 | 0.1766 | 0.5081 | 272.6    | -1 536c          | 27 536           | Mm   |
| 45               | 629 15 480       | 36.3       | 20.39      | 108.22     | 0.2201 | 0.1236 | 0.6561 | 245.2    | 2 413            | 31 556           |      |
| -1               | 485c 17 485      | 29.01      | 19.78      | 113.19     | 0.1791 | 0.1221 | 0.6987 | 236.2    | 11 455           | 32 561           | min  |
| -1               | 489c 17 490      | 29.01      | 19.78      | 113.19     | 0.1791 | 0.1221 | 0.6987 | 236.2    | 11 455           | 32 561           | min  |
| -1               | 494c 18 495      | 29.06      | 21.33      | 114.7      | 0.176  | 0.1292 | 0.6947 | 234.6    | 11 458           | 32 562           |      |
| -1               | 499c 19 500      | 29.07      | 23.12      | 115.79     | 0.173  | 0.1376 | 0.6892 | 232.7    | 12 460           | 32 563           |      |
| -1               | 509c 21 510      | 29.22      | 27.51      | 117.13     | 0.168  | 0.1582 | 0.6736 | 228.3    | 12 464           | 33 566           |      |
| -1               | 520c 24 520      | 30.41      | 36.26      | 118.03     | 0.1646 | 0.1963 | 0.639  | 219.7    | 13 468           | 34 570           | Bm   |
| -1               | 530c 26 530      | 32.29      | 43.19      | 118.28     | 0.1666 | 0.2229 | 0.6104 | 213.3    | 14 471           | 34 574           |      |
| -1               | 539c 27 540      | 33.62      | 46.88      | 118.34     | 0.1691 | 0.2357 | 0.5951 | 209.9    | 14 472           | 35 576           |      |
| -1               | 545c 29 545      | 37.12      | 54.45      | 118.41     | 0.1767 | 0.2593 | 0.5639 | 203.3    | 14 474           | 36 581           |      |
| -1               | 550c 30 550      | 39.3       | 58.24      | 118.42     | 0.1819 | 0.2697 | 0.5483 | 200.2    | 15 475           | 36 583           |      |
| -1               | 554c 30 555      | 39.3       | 58.24      | 118.42     | 0.1819 | 0.2697 | 0.5483 | 200.2    | 15 475           | 36 583           |      |
| 9                | 447 31 560       | 30.64      | 60.38      | 62.67      | 0.1993 | 0.3928 | 0.4077 | 145.0    | 17 488           | -1 488c          |      |
| 380              | 770              | 86.5       | 88.59      | 104.91     | 0.3089 | 0.3163 | 0.3746 | 0.0      |                  |                  |      |

1-001730-L0

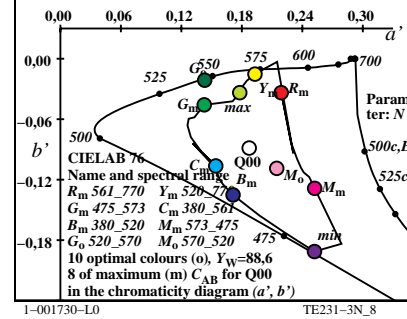
TE230-7N\_8

TUB-test chart TE23; maximum  $C_{AB}$ ,  $Y_m=520_770$   
XYZ,  $xyz$ ,  $h$  data, Q00,  $Y_w=88.6$ , Parameter: Name



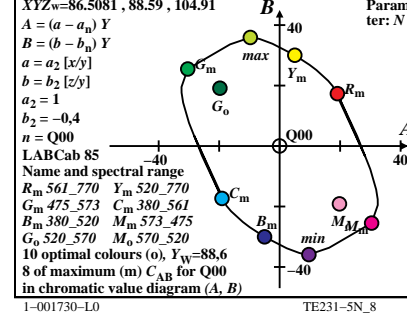
1-001730-L0

TE231-1N\_8



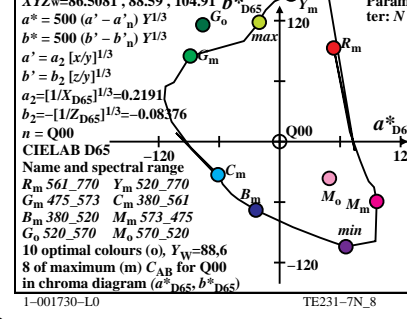
1-001730-L0

TE231-3N\_8



1-001730-L0

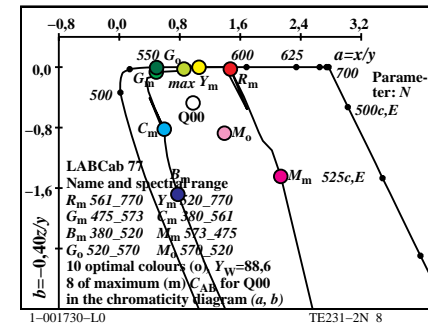
TE231-5N\_8



1-001730-L0

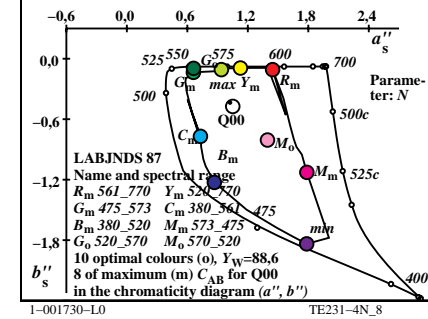
TE231-7N\_8

input: w/rgb/cmyk -> w/rgb/cmyk  
output: no change



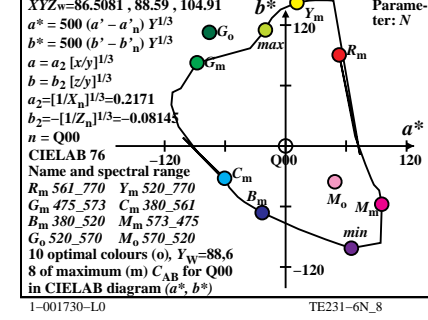
1-001730-L0

TE231-2N\_8



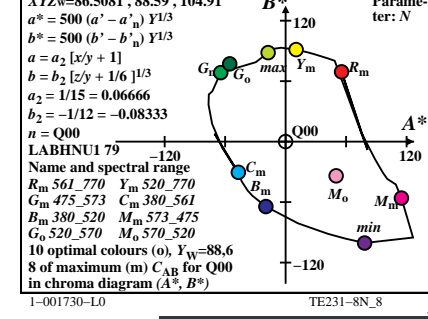
1-001730-L0

TE231-4N\_8



1-001730-L0

TE231-6N\_8



1-001730-L0

TE231-8N\_8

TUB registration: 20130201-TE23/TE23LONA.TXT /.PS  
application for measurement of display output

TUB material: code=rh4ta