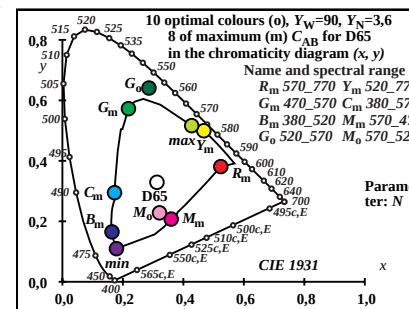


Ostwald optimal colours (o), maximum (m)  $C_{AB}$  for D65,  $Y_N=0$ ,  $Y_W=90$ ,  $Y_m=520\_770$

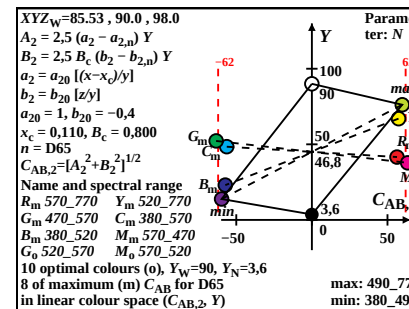
| $i_1, \lambda_1$ | $i_2, \lambda_2$ | X   | Y     | Z     | x     | y      | z      | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code              |
|------------------|------------------|-----|-------|-------|-------|--------|--------|----------|------------------|------------------|-------------------|
| 0                | 405              | 32  | 561   | 31.49 | 53.78 | 97.34  | 0.1724 | 0.2945   | 0.533            | 193.8            | 16 483 37 589 Cm  |
| 6                | 435              | 32  | 562   | 28.55 | 54.39 | 80.58  | 0.1746 | 0.3326   | 0.4927           | 178.5            | 17 486 42 610     |
| 10               | 450              | 32  | 563   | 23.35 | 55.1  | 49.17  | 0.1829 | 0.4317   | 0.3852           | 141.6            | 19 496 -1 496c    |
| 12               | 460              | 33  | 565   | 21.28 | 55.49 | 33.31  | 0.1933 | 0.504    | 0.3026           | 124.2            | 21 505 -1 505c    |
| 12               | 465              | 33  | 567   | 22.36 | 56.83 | 33.32  | 0.1987 | 0.5051   | 0.2961           | 122.8            | 21 506 -1 506c    |
| 14               | 470              | 33  | 569   | 22.16 | 58.03 | 21.18  | 0.2186 | 0.5724   | 0.2089           | 111.1            | 24 520 -1 520c Gm |
| 15               | 475              | 34  | 573   | 24.05 | 60.12 | 16.8   | 0.2382 | 0.5953   | 0.1664           | 105.6            | 25 528 -1 528c    |
| 16               | 480              | 36  | 580   | 28.23 | 63.83 | 13.47  | 0.2674 | 0.6048   | 0.1276           | 99.2             | 27 537 -1 537c    |
| 17               | 485              | 39  | 595   | 39.58 | 71.51 | 11.03  | 0.3241 | 0.5855   | 0.0903           | 87.4             | 29 548 -1 548c    |
| 18               | 490              | -1  | 490c  | 70.02 | 84.64 | 9.22   | 0.4272 | 0.5164   | 0.0562           | 58.5             | 33 565 11 459 max |
| 19               | 495              | -1  | 495c  | 69.98 | 83.35 | 7.82   | 0.4342 | 0.5171   | 0.0485           | 57.1             | 33 566 12 462     |
| 20               | 500              | -1  | 500c  | 69.96 | 81.72 | 6.74   | 0.4416 | 0.5158   | 0.0425           | 55.3             | 33 567 12 464     |
| 22               | 510              | -1  | 510c  | 69.85 | 77.28 | 5.33   | 0.4581 | 0.5068   | 0.035            | 50.6             | 33 569 13 469     |
| 23               | 520              | -1  | 519c  | 69.66 | 74.43 | 4.92   | 0.4674 | 0.4995   | 0.033            | 47.7             | 34 570 14 471 Ym  |
| 25               | 530              | -1  | 529c  | 68.68 | 67.57 | 4.41   | 0.4882 | 0.4803   | 0.0314           | 40.7             | 34 573 15 475     |
| 27               | 540              | -1  | 539c  | 66.72 | 59.67 | 4.15   | 0.511  | 0.4571   | 0.0318           | 32.8             | 35 577 15 478     |
| 28               | 545              | -1  | 544c  | 65.33 | 55.55 | 4.08   | 0.5228 | 0.4445   | 0.0326           | 28.7             | 35 579 15 479     |
| 29               | 550              | -1  | 549c  | 63.64 | 51.35 | 4.03   | 0.5347 | 0.4313   | 0.0338           | 24.7             | 36 582 16 480     |
| 30               | 555              | -1  | 554c  | 61.66 | 47.14 | 4.0    | 0.5465 | 0.4179   | 0.0354           | 20.8             | 36 584 16 481     |
| 32               | 560              | -1  | 560c  | 56.8  | 39.03 | 3.96   | 0.5691 | 0.391    | 0.0397           | 13.6             | 37 589 16 483     |
| 32               | 561              | 0   | 405   | 63.55 | 46.21 | 11.54  | 0.5238 | 0.3809   | 0.0951           | 13.8             | 37 589 16 483 Rm  |
| 32               | 562              | 6   | 435   | 66.48 | 45.6  | 28.3   | 0.4735 | 0.3248   | 0.2016           | 358.5            | 42 610 17 486     |
| 32               | 563              | 10  | 450   | 71.69 | 44.89 | 59.71  | 0.4066 | 0.2546   | 0.3387           | 321.6            | -1 496c 19 496    |
| 33               | 565              | 12  | 460   | 73.75 | 44.5  | 75.57  | 0.3805 | 0.2295   | 0.3898           | 304.3            | -1 505c 21 505    |
| 33               | 567              | 12  | 465   | 72.68 | 43.16 | 75.56  | 0.3797 | 0.2254   | 0.3947           | 302.9            | -1 506c 21 506    |
| 33               | 569              | 14  | 470   | 72.87 | 41.96 | 87.7   | 0.3598 | 0.2071   | 0.433            | 291.1            | -1 520c 24 520 Mm |
| 34               | 573              | 15  | 475   | 70.98 | 39.87 | 92.08  | 0.3497 | 0.1964   | 0.4537           | 285.6            | -1 528c 25 528    |
| 36               | 580              | 16  | 480   | 66.81 | 36.16 | 95.41  | 0.3367 | 0.1822   | 0.4809           | 279.3            | -1 537c 27 537    |
| 39               | 595              | 17  | 485   | 55.46 | 28.48 | 97.85  | 0.305  | 0.1567   | 0.5382           | 267.4            | -1 548c 29 548    |
| -1               | 490c             | 18  | 490   | 25.01 | 15.35 | 99.66  | 0.1786 | 0.1096   | 0.7117           | 238.5            | 11 459 33 565 min |
| -1               | 495c             | 19  | 495   | 25.05 | 16.64 | 101.06 | 0.1755 | 0.1166   | 0.7078           | 237.1            | 12 462 33 566     |
| -1               | 500c             | 20  | 500   | 25.07 | 18.27 | 102.14 | 0.1723 | 0.1256   | 0.702            | 235.4            | 12 464 33 567     |
| -1               | 510c             | 22  | 510   | 25.18 | 22.71 | 103.55 | 0.1662 | 0.1499   | 0.6837           | 230.7            | 13 469 33 569     |
| -1               | 519c             | 23  | 520   | 25.38 | 25.56 | 103.96 | 0.1638 | 0.165    | 0.6711           | 227.7            | 14 471 34 570     |
| -1               | 529c             | 25  | 530   | 26.35 | 32.42 | 104.47 | 0.1614 | 0.1986   | 0.6399           | 220.7            | 15 475 34 573     |
| -1               | 539c             | 27  | 540   | 28.32 | 40.32 | 104.73 | 0.1633 | 0.2325   | 0.604            | 212.8            | 15 478 35 577     |
| -1               | 544c             | 28  | 545   | 29.7  | 44.44 | 104.81 | 0.1659 | 0.2483   | 0.5856           | 208.8            | 15 479 35 579     |
| -1               | 549c             | 29  | 550   | 31.39 | 48.64 | 104.85 | 0.1697 | 0.2631   | 0.567            | 204.7            | 16 480 36 582     |
| -1               | 554c             | 30  | 555   | 33.38 | 52.85 | 104.88 | 0.1746 | 0.2765   | 0.5488           | 200.8            | 16 481 36 584     |
| -1               | 560c             | 32  | 560   | 38.24 | 60.96 | 104.92 | 0.1873 | 0.2986   | 0.5139           | 193.6            | 16 483 37 589     |
| W0               | 380              | 770 | 85.53 | 90.0  | 98.0  | 0.3127 | 0.329  | 0.3582   | 0.0              |                  |                   |
| N0               | 380              | 770 | 3.42  | 3.6   | 3.92  | 0.3127 | 0.329  | 0.3582   | 0.0              |                  |                   |

AEV00-7N

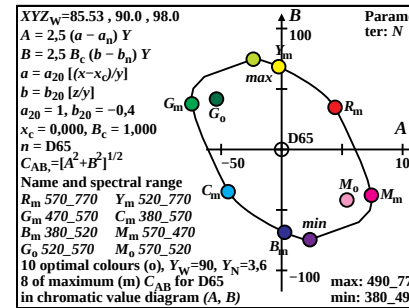
TUB-test chart AEV0; Hue circle of the Ostwald optimal colours with Y values,  $Y_N=0,0$ ,  $Y_W=90$   
Ostwald optimal colour data: XYZ and eight different colour diagrams, D65-02



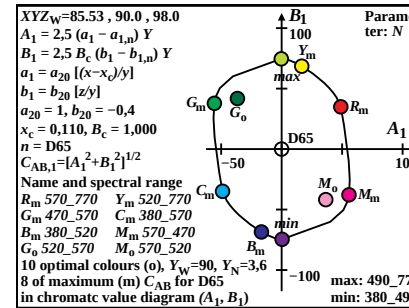
AEV01-1N



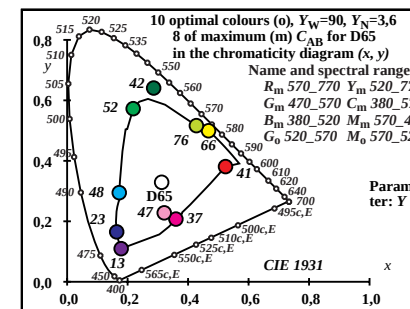
AEV01-2N



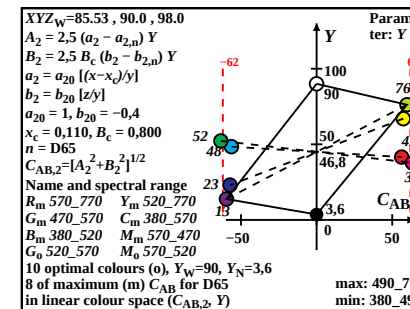
AEV01-3N



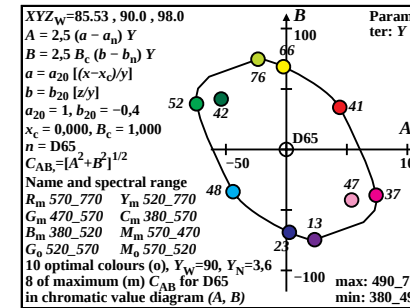
AEV01-4N



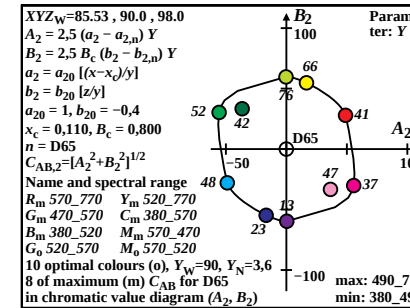
AEV01-5N



AEV01-6N



AEV01-7N



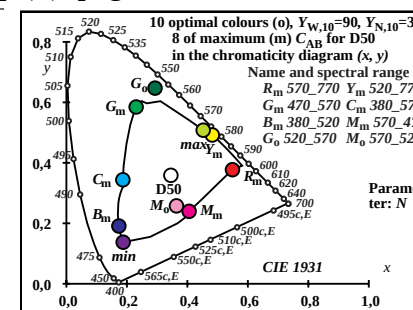
AEV01-8N

Ostwald optimal colours (o), maximum (m)  $C_{AB}$  for D50,  $Y_N=0$ ,  $Y_W=90$ ,  $Y_m=520\_770$

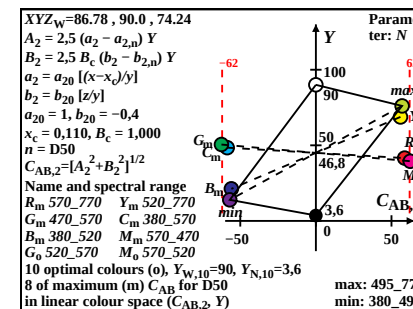
| $i_1, \lambda_1$ | $i_2, \lambda_2$ | X     | Y     | Z     | x      | y      | z      | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-------|-------|-------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 32 564           | 29.26 | 53.83 | 73.48 | 0.1869 | 0.3438 | 0.4692 | 185.2    | 17 486           | 38 592           | Cm   |
| 7 435            | 33 565           | 26.01 | 53.61 | 57.83 | 0.1892 | 0.39   | 0.4207 | 168.6    | 18 490           | 46 631           |      |
| 10 450           | 33 566           | 23.26 | 54.16 | 39.66 | 0.1986 | 0.4625 | 0.3387 | 144.6    | 19 497           | -1 497c          |      |
| 12 460           | 33 567           | 22.04 | 54.86 | 27.4  | 0.2113 | 0.5259 | 0.2626 | 128.7    | 21 506           | -1 506c          |      |
| 13 465           | 33 568           | 22.01 | 55.56 | 22.12 | 0.2208 | 0.5572 | 0.2218 | 122.1    | 22 512           | -1 512c          |      |
| 14 470           | 34 570           | 22.15 | 56.11 | 17.7  | 0.2308 | 0.5846 | 0.1844 | 116.9    | 23 519           | -1 519c          | Gm   |
| 15 475           | 34 573           | 23.92 | 58.04 | 14.12 | 0.2489 | 0.604  | 0.1469 | 111.4    | 25 527           | -1 527c          |      |
| 15 480           | 35 578           | 27.41 | 61.49 | 14.13 | 0.266  | 0.5968 | 0.1371 | 108.4    | 26 532           | -1 532c          |      |
| 17 485           | 37 587           | 33.99 | 66.01 | 9.3   | 0.3109 | 0.6039 | 0.0851 | 98.0     | 28 544           | -1 544c          |      |
| 18 490           | 44 620           | 59.95 | 79.56 | 7.75  | 0.407  | 0.5402 | 0.0526 | 71.3     | 32 561           | -1 561c          |      |
| 19 495           | -1 495c          | 75.28 | 84.51 | 6.54  | 0.4525 | 0.5081 | 0.0393 | 54.4     | 33 568           | 12 463           | max  |
| 20 500           | -1 500c          | 75.26 | 83.07 | 5.58  | 0.4591 | 0.5067 | 0.034  | 52.5     | 33 569           | 13 466           |      |
| 22 510           | -1 510c          | 75.16 | 79.06 | 4.31  | 0.4741 | 0.4986 | 0.0272 | 47.4     | 34 571           | 14 471           |      |
| 23 520           | -1 519c          | 74.98 | 76.43 | 3.93  | 0.4826 | 0.492  | 0.0253 | 44.2     | 34 572           | 14 473           | Ym   |
| 25 530           | -1 529c          | 74.05 | 69.95 | 3.45  | 0.5021 | 0.4743 | 0.0234 | 36.4     | 35 575           | 15 477           |      |
| 27 540           | -1 539c          | 72.16 | 62.35 | 3.2   | 0.524  | 0.4527 | 0.0232 | 27.8     | 35 579           | 16 480           |      |
| 28 545           | -1 544c          | 70.81 | 58.33 | 3.13  | 0.5353 | 0.4409 | 0.0236 | 23.4     | 36 581           | 16 481           |      |
| 29 550           | -1 549c          | 69.15 | 54.19 | 3.08  | 0.5469 | 0.4286 | 0.0244 | 19.1     | 36 583           | 16 483           |      |
| 30 555           | -1 554c          | 67.17 | 50.01 | 3.05  | 0.5586 | 0.4159 | 0.0254 | 15.0     | 37 585           | 16 484           |      |
| 32 560           | -1 560c          | 62.28 | 41.85 | 3.02  | 0.5812 | 0.3905 | 0.0281 | 7.7      | 38 590           | 17 486           |      |
| 32 564           | 1 405            | 67.15 | 46.16 | 9.01  | 0.5489 | 0.3773 | 0.0736 | 5.2      | 38 592           | 17 486           | Rm   |
| 33 565           | 7 435            | 70.4  | 46.38 | 24.66 | 0.4977 | 0.3279 | 0.1743 | 348.6    | 46 631           | 18 490           |      |
| 33 566           | 10 450           | 73.15 | 45.83 | 42.83 | 0.452  | 0.2832 | 0.2646 | 324.7    | -1 497c          | 19 497           |      |
| 33 567           | 12 460           | 74.37 | 45.13 | 55.09 | 0.4259 | 0.2585 | 0.3155 | 308.7    | -1 506c          | 21 506           |      |
| 33 568           | 13 465           | 74.4  | 44.43 | 60.37 | 0.4151 | 0.2479 | 0.3368 | 302.1    | -1 512c          | 22 512           |      |
| 34 570           | 14 470           | 74.26 | 43.88 | 64.78 | 0.4059 | 0.2398 | 0.3541 | 296.9    | -1 519c          | 23 519           | Mm   |
| 34 573           | 15 475           | 72.5  | 41.95 | 68.37 | 0.3965 | 0.2294 | 0.3739 | 291.5    | -1 527c          | 25 527           |      |
| 35 578           | 15 480           | 69.0  | 38.5  | 68.36 | 0.3923 | 0.2189 | 0.3887 | 288.5    | -1 532c          | 26 532           |      |
| 37 587           | 17 485           | 62.42 | 33.98 | 73.19 | 0.368  | 0.2003 | 0.4315 | 278.0    | -1 544c          | 28 544           |      |
| 44 620           | 18 490           | 36.46 | 20.43 | 74.74 | 0.277  | 0.1552 | 0.5677 | 251.3    | -1 561c          | 32 561           |      |
| -1 495c          | 19 495           | 21.14 | 15.48 | 75.95 | 0.1877 | 0.1375 | 0.6746 | 234.4    | 12 463           | 33 568           | min  |
| -1 500c          | 20 500           | 21.15 | 16.92 | 76.91 | 0.1839 | 0.1471 | 0.6688 | 232.5    | 13 466           | 33 569           |      |
| -1 510c          | 22 510           | 21.25 | 20.93 | 78.18 | 0.1765 | 0.1739 | 0.6494 | 227.5    | 14 471           | 34 571           |      |
| -1 519c          | 23 520           | 21.44 | 23.56 | 78.56 | 0.1735 | 0.1907 | 0.6357 | 224.2    | 14 473           | 34 572           | Bm   |
| -1 529c          | 25 530           | 22.36 | 30.04 | 79.04 | 0.1701 | 0.2285 | 0.6013 | 216.5    | 15 477           | 35 575           |      |
| -1 539c          | 27 540           | 24.25 | 37.64 | 79.29 | 0.1717 | 0.2666 | 0.5615 | 207.8    | 16 480           | 35 579           |      |
| -1 544c          | 28 545           | 25.6  | 41.66 | 79.36 | 0.1746 | 0.2841 | 0.5412 | 203.5    | 16 481           | 36 581           |      |
| -1 549c          | 29 550           | 27.26 | 45.8  | 79.41 | 0.1788 | 0.3004 | 0.5207 | 199.2    | 16 483           | 36 583           |      |
| -1 554c          | 30 555           | 29.24 | 49.98 | 79.44 | 0.1843 | 0.315  | 0.5006 | 195.0    | 16 484           | 37 585           |      |
| -1 560c          | 32 560           | 34.13 | 58.14 | 79.47 | 0.1987 | 0.3385 | 0.4627 | 187.7    | 17 486           | 38 590           |      |
| W0 380           | 770              | 86.78 | 90.0  | 74.24 | 0.3457 | 0.3585 | 0.2957 | 0.0      |                  |                  |      |
| N0 380           | 770              | 3.47  | 3.6   | 2.96  | 0.3457 | 0.3585 | 0.2957 | 0.0      |                  |                  |      |

AEV00-7N

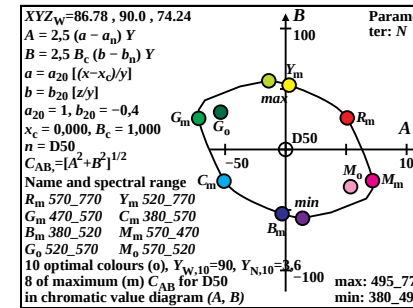
TUB-test chart AEV0; Hue circle of the Ostwald optimal colours with Y values,  $Y_N=0,0$ ,  $Y_W=90$   
Ostwald optimal colour data: XYZ and eight different colour diagrams, D50-02



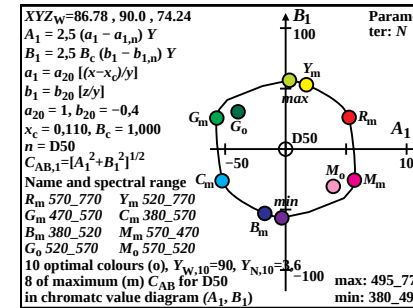
AEV01-1N



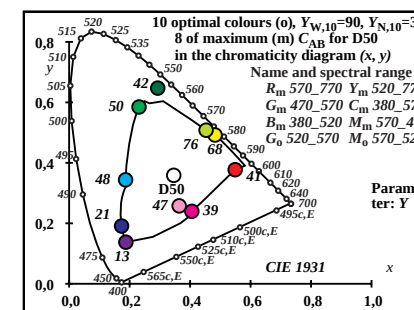
AEV01-3N



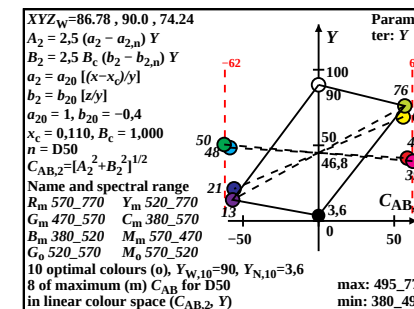
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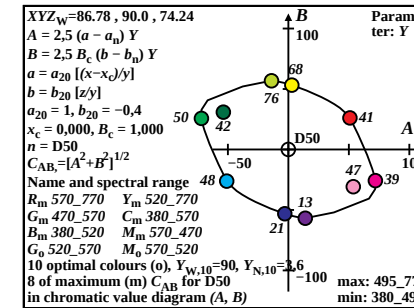
AEV01-7N



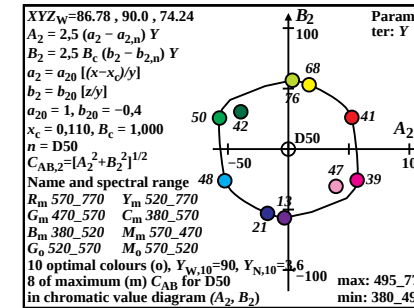
AEV01-2N



AEV01-4N



AEV01-6N

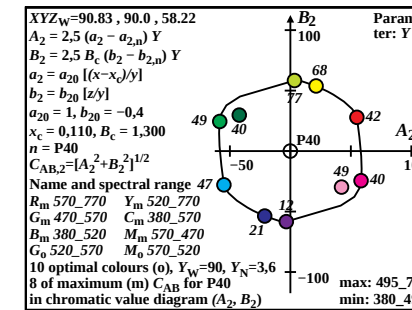
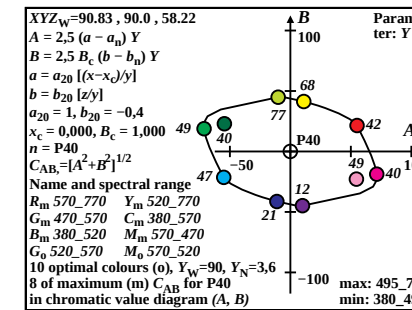
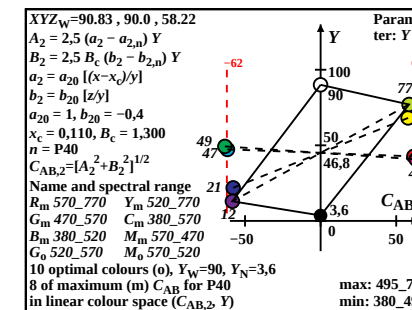
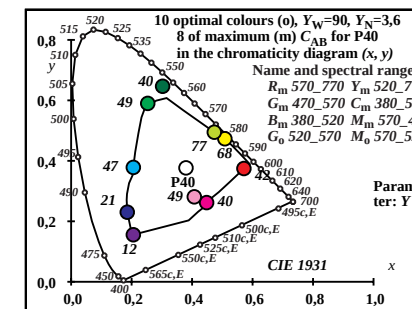
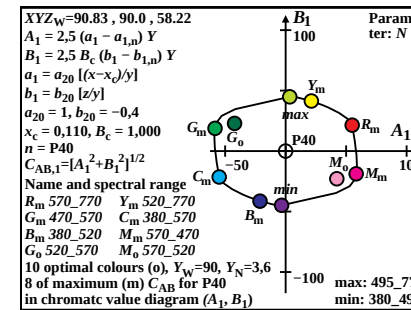
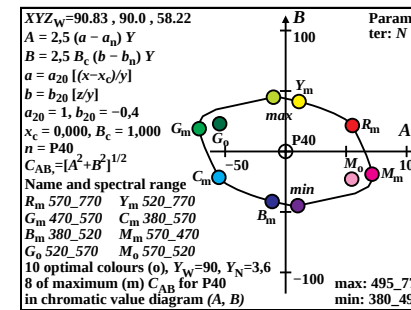
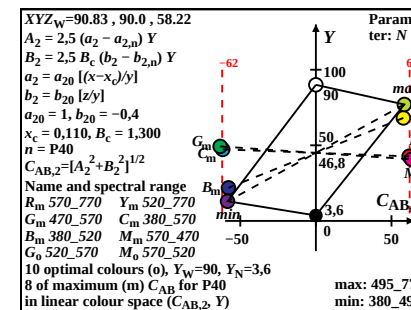
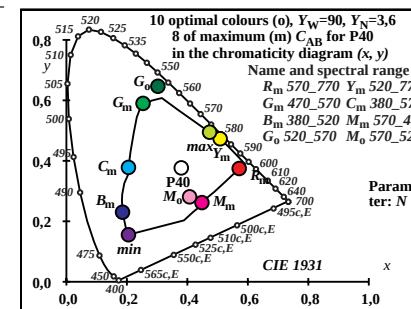


AEV01-8N

Ostwald optimal colours (o), maximum (m)  $C_{AB}$  for P40,  $Y_N=0$ ,  $Y_W=90$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | X   | Y     | Z     | x     | y      | z      | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code              |
|------------------|------------------|-----|-------|-------|-------|--------|--------|----------|------------------|------------------|-------------------|
| 0                | 405              | 33  | 568   | 28.56 | 52.58 | 57.84  | 0.2054 | 0.3783   | 0.4161           | 179.3            | 17 488 38 594 Cm  |
| 7                | 435              | 33  | 568   | 26.11 | 52.87 | 44.22  | 0.2119 | 0.4291   | 0.3589           | 162.5            | 18 493 -1 493c    |
| 10               | 450              | 33  | 569   | 24.13 | 53.33 | 30.9   | 0.2226 | 0.4921   | 0.2851           | 143.6            | 19 499 -1 499c    |
| 12               | 460              | 34  | 570   | 22.8  | 53.28 | 21.91  | 0.2326 | 0.5437   | 0.2236           | 131.3            | 21 507 -1 507c    |
| 13               | 465              | 34  | 571   | 22.89 | 53.83 | 17.91  | 0.2418 | 0.5688   | 0.1892           | 125.6            | 22 512 -1 512c    |
| 14               | 470              | 34  | 572   | 23.51 | 54.75 | 14.51  | 0.2534 | 0.5901   | 0.1564           | 120.6            | 23 519 -1 519c Gm |
| 14               | 475              | 34  | 574   | 25.3  | 56.7  | 14.51  | 0.2622 | 0.5874   | 0.1503           | 119.1            | 24 522 -1 522c    |
| 15               | 480              | 35  | 578   | 27.64 | 58.85 | 11.73  | 0.2814 | 0.5991   | 0.1194           | 113.8            | 26 531 -1 531c    |
| 17               | 485              | 37  | 585   | 32.27 | 62.11 | 7.83   | 0.3157 | 0.6076   | 0.0766           | 105.5            | 28 543 -1 543c    |
| 17               | 490              | 40  | 600   | 46.83 | 71.73 | 7.84   | 0.3704 | 0.5674   | 0.062            | 92.8             | 30 554 -1 554c    |
| 19               | 495              | -1  | 495c  | 81.89 | 85.57 | 5.49   | 0.4734 | 0.4947   | 0.0317           | 51.6             | 34 571 12 464 max |
| 20               | 500              | -1  | 500c  | 81.88 | 84.33 | 4.67   | 0.4791 | 0.4934   | 0.0273           | 49.6             | 34 571 13 467     |
| 21               | 510              | -1  | 509c  | 81.86 | 82.76 | 4.03   | 0.4853 | 0.4906   | 0.0239           | 47.2             | 34 572 13 469     |
| 24               | 520              | -1  | 520c  | 81.3  | 75.67 | 2.97   | 0.5083 | 0.473    | 0.0185           | 36.9             | 35 575 15 476 Ym  |
| 26               | 530              | -1  | 530c  | 80.05 | 69.21 | 2.65   | 0.5269 | 0.4556   | 0.0174           | 28.2             | 35 578 16 480     |
| 27               | 540              | -1  | 539c  | 79.05 | 65.61 | 2.55   | 0.5369 | 0.4456   | 0.0173           | 23.7             | 36 580 16 481     |
| 29               | 545              | -1  | 545c  | 76.21 | 57.91 | 2.44   | 0.558  | 0.424    | 0.0179           | 14.9             | 36 584 16 484     |
| 29               | 550              | -1  | 549c  | 76.21 | 57.91 | 2.44   | 0.558  | 0.424    | 0.0179           | 14.9             | 36 584 16 484     |
| 31               | 555              | -1  | 555c  | 72.04 | 49.83 | 2.39   | 0.5797 | 0.4009   | 0.0192           | 6.9              | 37 588 17 486     |
| 32               | 560              | -1  | 560c  | 69.41 | 45.75 | 2.38   | 0.5905 | 0.3892   | 0.0202           | 3.4              | 38 591 17 487     |
| 33               | 568              | 0   | 405   | 72.36 | 47.41 | 6.83   | 0.5715 | 0.3744   | 0.054            | 359.3            | 38 594 17 488 Rm  |
| 33               | 568              | 7   | 435   | 74.82 | 47.12 | 20.46  | 0.5254 | 0.3308   | 0.1437           | 342.6            | -1 493c 18 493    |
| 33               | 569              | 10  | 450   | 76.8  | 46.66 | 33.78  | 0.4884 | 0.2967   | 0.2148           | 323.6            | -1 499c 19 499    |
| 34               | 570              | 12  | 460   | 78.12 | 46.71 | 42.77  | 0.4661 | 0.2786   | 0.2551           | 311.4            | -1 507c 21 507    |
| 34               | 571              | 13  | 465   | 78.03 | 46.16 | 46.77  | 0.4564 | 0.2699   | 0.2735           | 305.7            | -1 512c 22 512    |
| 34               | 572              | 14  | 470   | 77.41 | 45.24 | 50.17  | 0.4478 | 0.2617   | 0.2903           | 300.6            | -1 519c 23 519 Mm |
| 34               | 574              | 14  | 475   | 75.62 | 43.29 | 50.17  | 0.4472 | 0.256    | 0.2967           | 299.2            | -1 522c 24 522    |
| 35               | 578              | 15  | 480   | 73.28 | 41.14 | 52.95  | 0.4378 | 0.2458   | 0.3163           | 293.9            | -1 531c 26 531    |
| 37               | 585              | 17  | 485   | 68.65 | 37.88 | 56.85  | 0.4201 | 0.2318   | 0.3479           | 285.5            | -1 543c 28 543    |
| 40               | 600              | 17  | 490   | 54.09 | 28.26 | 56.84  | 0.3886 | 0.203    | 0.4083           | 272.8            | -1 554c 30 554    |
| -1               | 495c             | 19  | 495   | 19.03 | 14.42 | 59.19  | 0.2054 | 0.1556   | 0.6388           | 231.6            | 12 464 34 571 min |
| -1               | 500c             | 20  | 500   | 19.04 | 15.66 | 60.01  | 0.2011 | 0.1653   | 0.6335           | 229.7            | 13 467 34 571     |
| -1               | 509c             | 21  | 510   | 19.06 | 17.23 | 60.65  | 0.1966 | 0.1777   | 0.6255           | 227.3            | 13 469 34 572     |
| -1               | 520c             | 24  | 520   | 19.62 | 24.32 | 61.71  | 0.1857 | 0.2302   | 0.584            | 216.9            | 15 476 35 575 Bm  |
| -1               | 530c             | 26  | 530   | 20.87 | 30.78 | 62.03  | 0.1836 | 0.2707   | 0.5456           | 208.3            | 16 480 35 578     |
| -1               | 539c             | 27  | 540   | 21.87 | 34.38 | 62.13  | 0.1847 | 0.2904   | 0.5248           | 203.7            | 16 481 36 580     |
| -1               | 545c             | 29  | 545   | 24.72 | 42.08 | 62.24  | 0.1915 | 0.3261   | 0.4823           | 194.9            | 16 484 36 584     |
| -1               | 549c             | 29  | 550   | 24.72 | 42.08 | 62.24  | 0.1915 | 0.3261   | 0.4823           | 194.9            | 16 484 36 584     |
| -1               | 555c             | 31  | 555   | 28.88 | 50.16 | 62.29  | 0.2043 | 0.3549   | 0.4407           | 186.9            | 17 486 37 588     |
| -1               | 560c             | 32  | 560   | 31.51 | 54.24 | 62.3   | 0.2128 | 0.3663   | 0.4208           | 183.4            | 17 487 38 591     |
| W0               | 380              | 770 | 90.83 | 90.0  | 58.22 | 0.3799 | 0.3764 | 0.2435   | 0.0              |                  |                   |
| N0               | 380              | 770 | 3.63  | 3.6   | 2.32  | 0.3799 | 0.3764 | 0.2435   | 0.0              |                  |                   |

TUB-test chart AEV0; Hue circle of the Ostwald optimal colours with Y values,  $Y_N=0,0$ ,  $Y_W=90$   
Ostwald optimal colour data: XYZ and eight different colour diagrams, P40-02

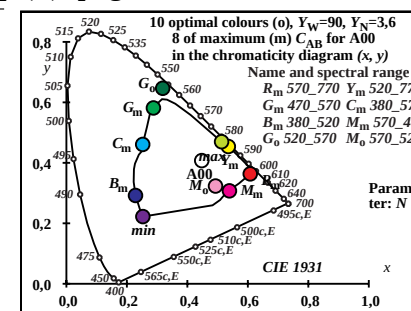


Ostwald optimal colours (o), maximum (m)  $C_{AB}$  for A00,  $Y_N=0$ ,  $Y_W=90$ ,  $Y_m=520\_770$

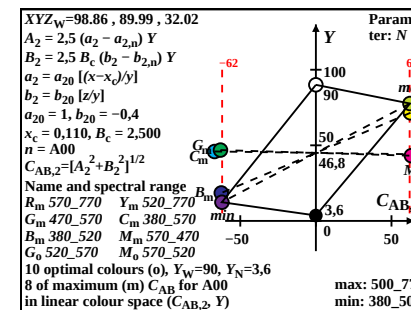
| $i_1, \lambda_1$ | $i_2, \lambda_2$ | X   | Y     | Z     | x     | y      | z      | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Cod            |     |
|------------------|------------------|-----|-------|-------|-------|--------|--------|----------|------------------|------------------|----------------|-----|
| 1                | 405              | 34  | 574   | 27.98 | 51.03 | 31.76  | 0.2525 | 0.4606   | 0.2867           | 164.7            | 18 494 39 599  | Cm  |
| 6                | 435              | 34  | 574   | 27.34 | 51.22 | 27.68  | 0.2573 | 0.482    | 0.2605           | 158.5            | 19 496 42 612  |     |
| 9                | 450              | 34  | 574   | 26.46 | 51.5  | 21.43  | 0.2662 | 0.5181   | 0.2156           | 148.5            | 20 501 -1 501c |     |
| 12               | 460              | 35  | 575   | 24.99 | 51.11 | 14.02  | 0.2773 | 0.567    | 0.1555           | 136.8            | 21 508 -1 508c |     |
| 13               | 465              | 35  | 575   | 25.08 | 51.41 | 11.68  | 0.2844 | 0.583    | 0.1325           | 132.8            | 22 512 -1 512c |     |
| 13               | 470              | 35  | 576   | 25.78 | 52.07 | 11.68  | 0.2879 | 0.5815   | 0.1305           | 132.5            | 22 513 -1 513c | Gm  |
| 14               | 475              | 35  | 577   | 26.59 | 52.94 | 9.63   | 0.2982 | 0.5937   | 0.108            | 128.7            | 23 519 -1 519c |     |
| 16               | 480              | 35  | 579   | 28.02 | 54.11 | 6.49   | 0.3162 | 0.6105   | 0.0732           | 122.8            | 26 533 -1 533c |     |
| 17               | 485              | 36  | 582   | 30.53 | 55.92 | 5.36   | 0.3325 | 0.609    | 0.0584           | 119.6            | 28 540 -1 540c |     |
| 18               | 490              | 37  | 588   | 36.19 | 59.84 | 4.46   | 0.3601 | 0.5954   | 0.0444           | 114.9            | 29 548 -1 548c |     |
| 19               | 495              | 40  | 601   | 49.98 | 67.85 | 3.74   | 0.411  | 0.558    | 0.0308           | 103.5            | 31 559 -1 559c |     |
| 20               | 500              | -1  | 500c  | 94.21 | 86.26 | 3.16   | 0.513  | 0.4697   | 0.0172           | 43.5             | 35 576 13 469  | max |
| 21               | 510              | -1  | 509c  | 94.19 | 85.08 | 2.68   | 0.5176 | 0.4675   | 0.0147           | 40.5             | 35 576 14 472  |     |
| 24               | 520              | -1  | 520c  | 93.75 | 79.47 | 1.85   | 0.5355 | 0.4539   | 0.0105           | 27.8             | 35 579 16 480  | Ym  |
| 26               | 530              | -1  | 530c  | 92.69 | 74.02 | 1.58   | 0.5507 | 0.4398   | 0.0094           | 17.4             | 36 582 16 484  |     |
| 28               | 540              | -1  | 540c  | 90.67 | 67.47 | 1.44   | 0.5681 | 0.4227   | 0.009            | 7.2              | 37 585 17 487  |     |
| 28               | 545              | -1  | 544c  | 90.67 | 67.47 | 1.44   | 0.5681 | 0.4227   | 0.009            | 7.2              | 37 585 17 487  |     |
| 29               | 550              | -1  | 549c  | 89.22 | 63.86 | 1.4    | 0.5775 | 0.4134   | 0.009            | 2.6              | 37 586 17 489  |     |
| 31               | 555              | -1  | 555c  | 85.25 | 56.16 | 1.35   | 0.5971 | 0.3933   | 0.0094           | 354.6            | 38 590 18 491  |     |
| 32               | 560              | -1  | 560c  | 82.65 | 52.14 | 1.34   | 0.6071 | 0.383    | 0.0098           | 351.3            | 38 593 18 492  |     |
| 34               | 574              | 1   | 405   | 81.86 | 48.96 | 3.81   | 0.6079 | 0.3636   | 0.0283           | 344.7            | 39 599 18 494  | Rm  |
| 34               | 574              | 6   | 435   | 82.5  | 48.77 | 7.9    | 0.5927 | 0.3504   | 0.0567           | 338.5            | 42 612 19 496  |     |
| 34               | 574              | 9   | 450   | 83.38 | 48.49 | 14.15  | 0.5709 | 0.332    | 0.0969           | 328.6            | -1 501c 20 501 |     |
| 35               | 575              | 12  | 460   | 84.85 | 48.88 | 21.55  | 0.5463 | 0.3147   | 0.1388           | 316.8            | -1 508c 21 508 |     |
| 35               | 575              | 13  | 465   | 84.76 | 48.58 | 23.89  | 0.539  | 0.3089   | 0.1519           | 312.9            | -1 512c 22 512 |     |
| 35               | 576              | 13  | 470   | 84.06 | 47.92 | 23.89  | 0.5392 | 0.3074   | 0.1532           | 312.5            | -1 513c 22 513 | Mm  |
| 35               | 577              | 14  | 475   | 83.25 | 47.05 | 25.94  | 0.5328 | 0.3011   | 0.166            | 308.7            | -1 519c 23 519 |     |
| 35               | 579              | 16  | 480   | 81.82 | 45.88 | 29.09  | 0.5218 | 0.2926   | 0.1855           | 302.9            | -1 533c 26 533 |     |
| 36               | 582              | 17  | 485   | 79.31 | 44.07 | 30.21  | 0.5163 | 0.2869   | 0.1967           | 299.7            | -1 540c 28 540 |     |
| 37               | 588              | 18  | 490   | 73.65 | 40.15 | 31.11  | 0.5081 | 0.277    | 0.2147           | 294.9            | -1 548c 29 548 |     |
| 40               | 601              | 19  | 495   | 59.86 | 32.14 | 31.83  | 0.4833 | 0.2595   | 0.257            | 283.6            | -1 559c 31 559 |     |
| -1               | 500c             | 20  | 500   | 15.63 | 13.73 | 32.41  | 0.253  | 0.2222   | 0.5246           | 223.5            | 13 469 35 576  | mir |
| -1               | 509c             | 21  | 510   | 15.64 | 14.91 | 32.89  | 0.2466 | 0.235    | 0.5183           | 220.6            | 14 472 35 576  |     |
| -1               | 520c             | 24  | 520   | 16.09 | 20.52 | 33.72  | 0.2287 | 0.2918   | 0.4794           | 207.8            | 16 480 35 579  | Bm  |
| -1               | 530c             | 26  | 530   | 17.15 | 25.97 | 33.99  | 0.2224 | 0.3367   | 0.4407           | 197.4            | 16 484 36 582  |     |
| -1               | 540c             | 28  | 540   | 19.17 | 32.52 | 34.14  | 0.2233 | 0.3789   | 0.3977           | 187.2            | 17 487 37 585  |     |
| -1               | 544c             | 28  | 545   | 19.17 | 32.52 | 34.14  | 0.2233 | 0.3789   | 0.3977           | 187.2            | 17 487 37 585  |     |
| -1               | 549c             | 29  | 550   | 20.62 | 36.13 | 34.18  | 0.2267 | 0.3973   | 0.3758           | 182.6            | 17 489 37 586  |     |
| -1               | 555c             | 31  | 555   | 24.59 | 43.83 | 34.22  | 0.2395 | 0.4269   | 0.3334           | 174.6            | 18 491 38 590  |     |
| -1               | 560c             | 32  | 560   | 27.19 | 47.85 | 34.24  | 0.2488 | 0.4378   | 0.3133           | 171.2            | 18 492 38 593  |     |
| W0               | 380              | 770 | 98.86 | 89.99 | 32.02 | 0.4475 | 0.4074 | 0.1449   | 0.0              |                  |                |     |
| N0               | 380              | 770 | 3.95  | 3.59  | 1.28  | 0.4475 | 0.4074 | 0.1449   | 0.0              |                  |                |     |

AEV00-7N

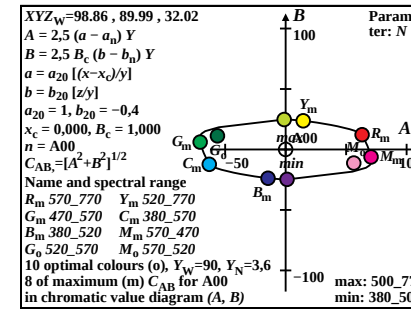
TUB-test chart AEV0; Hue circle of the Ostwald optimal colours with Y values,  $Y_N=0,0$ ,  $Y_W=90$   
Ostwald optimal colour data: XYZ and eight different colour diagrams, A00-02



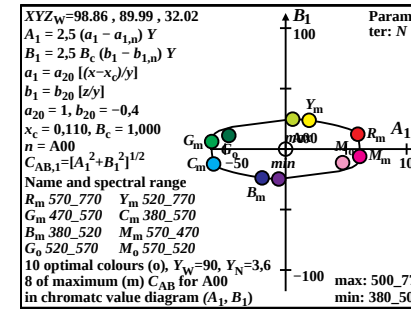
AEV01-1N



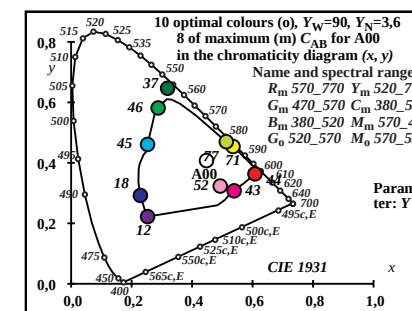
AEV01-3N



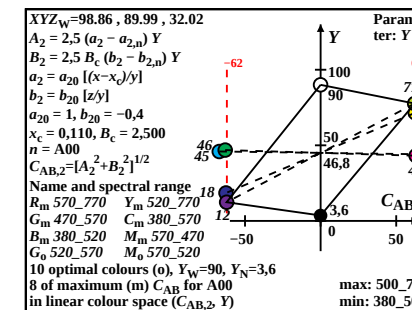
AEV01-5N



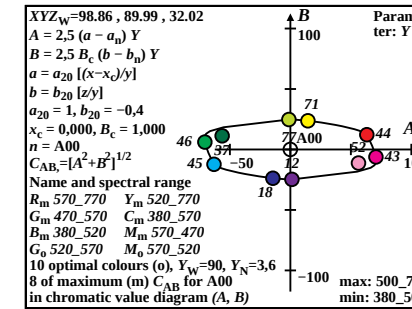
AEV01-7N



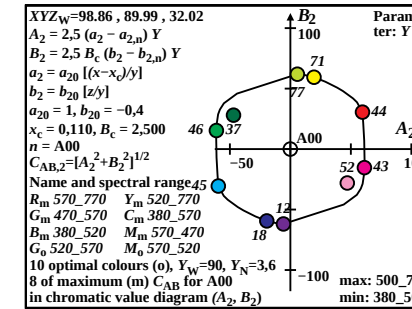
AEV01-2N



AEV01-4N



AEV01-6N

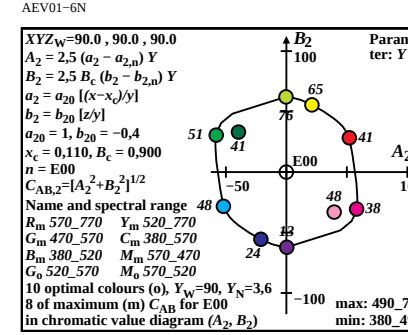
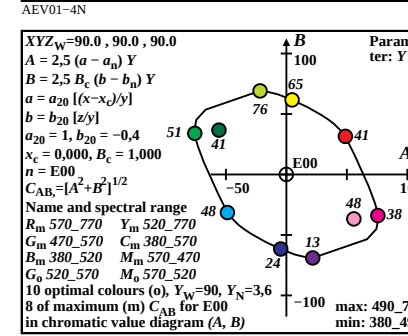
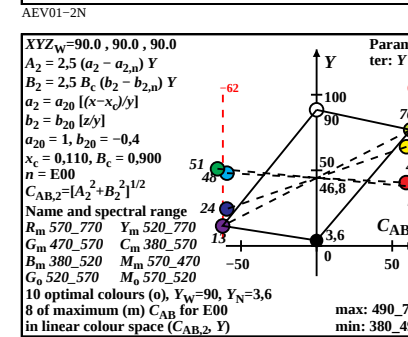
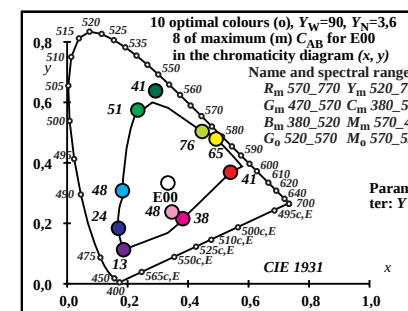
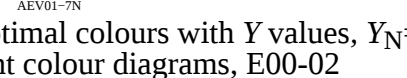
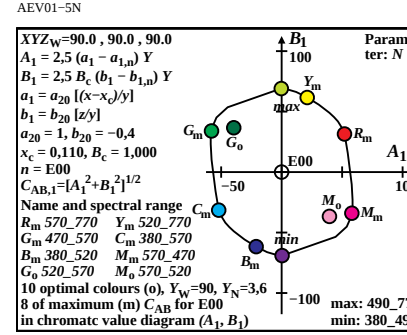
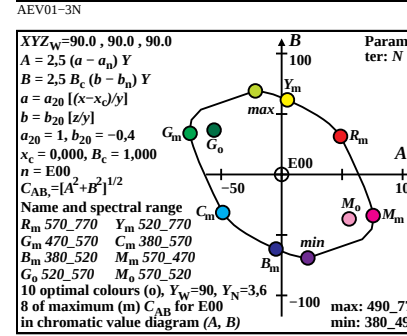
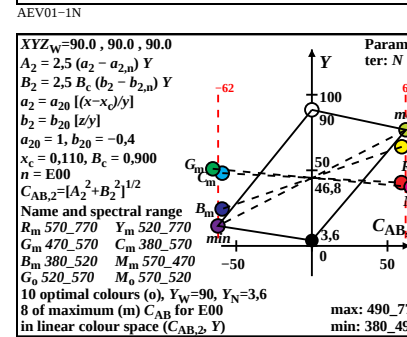
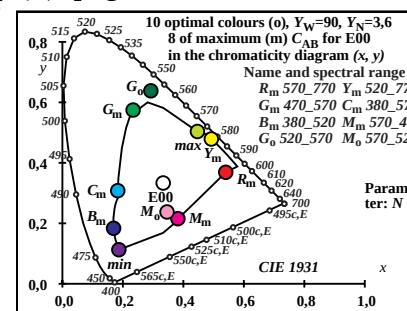


AEV01-8N

Ostwald optimal colours (o), maximum (m)  $C_{AB}$  for E00,  $Y_N=0$ ,  $Y_W=90$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | X     | Y     | Z     | x      | y      | z      | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-------|-------|-------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 32 564           | 31.84 | 53.49 | 88.52 | 0.1831 | 0.3077 | 0.5091 | 189.6    | 16 484           | 38 592           | Cm   |
| 6 435            | 33 565           | 28.26 | 53.39 | 70.9  | 0.1852 | 0.3499 | 0.4647 | 173.5    | 17 488           | 45 625           |      |
| 10 450           | 33 566           | 23.66 | 54.0  | 42.66 | 0.1966 | 0.4487 | 0.3545 | 139.7    | 19 498           | -1 498c          |      |
| 12 460           | 33 568           | 22.46 | 54.91 | 29.3  | 0.2105 | 0.5147 | 0.2747 | 124.0    | 21 507           | -1 507c          |      |
| 13 465           | 33 569           | 22.55 | 55.83 | 23.62 | 0.2211 | 0.5473 | 0.2315 | 117.6    | 22 514           | -1 514c          |      |
| 14 470           | 34 571           | 23.04 | 56.68 | 18.91 | 0.2335 | 0.5746 | 0.1917 | 112.4    | 24 522           | -1 522c          | Gm   |
| 14 475           | 35 575           | 25.29 | 59.12 | 18.91 | 0.2447 | 0.5721 | 0.183  | 110.3    | 25 525           | -1 525c          |      |
| 16 480           | 36 581           | 29.33 | 62.44 | 12.28 | 0.2818 | 0.6    | 0.118  | 100.8    | 27 538           | -1 538c          |      |
| 17 485           | 39 595           | 40.01 | 69.67 | 10.11 | 0.334  | 0.5815 | 0.0844 | 89.8     | 29 549           | -1 549c          |      |
| 18 490           | -1 490c          | 75.61 | 85.28 | 8.47  | 0.4464 | 0.5035 | 0.05   | 56.3     | 33 568           | 11 459           | max  |
| 19 495           | -1 495c          | 75.57 | 84.1  | 7.2   | 0.4528 | 0.5039 | 0.0431 | 54.9     | 33 568           | 12 461           |      |
| 19 500           | -1 499c          | 75.57 | 84.1  | 7.2   | 0.4528 | 0.5039 | 0.0431 | 54.9     | 33 568           | 12 461           |      |
| 22 510           | -1 510c          | 75.45 | 78.54 | 4.93  | 0.4747 | 0.4942 | 0.031  | 48.6     | 34 571           | 13 469           |      |
| 24 520           | -1 520c          | 74.91 | 72.84 | 4.27  | 0.4927 | 0.4791 | 0.0281 | 42.4     | 34 574           | 14 473           | Ym   |
| 26 530           | -1 530c          | 73.57 | 65.9  | 3.92  | 0.513  | 0.4595 | 0.0273 | 35.0     | 35 577           | 15 477           |      |
| 28 540           | -1 540c          | 71.21 | 58.21 | 3.75  | 0.5346 | 0.437  | 0.0282 | 27.2     | 36 581           | 15 479           |      |
| 29 545           | -1 545c          | 69.61 | 54.22 | 3.71  | 0.5457 | 0.4251 | 0.0291 | 23.3     | 36 583           | 16 480           |      |
| 29 550           | -1 549c          | 69.61 | 54.22 | 3.71  | 0.5457 | 0.4251 | 0.0291 | 23.3     | 36 583           | 16 480           |      |
| 30 555           | -1 554c          | 67.7  | 50.19 | 3.68  | 0.5568 | 0.4128 | 0.0303 | 19.5     | 37 585           | 16 482           |      |
| 32 560           | -1 560c          | 62.89 | 42.16 | 3.65  | 0.5785 | 0.3879 | 0.0335 | 12.5     | 38 590           | 16 483           |      |
| 32 564           | 1 405            | 68.15 | 46.5  | 11.48 | 0.5403 | 0.3686 | 0.091  | 9.6      | 38 592           | 16 484           | Rm   |
| 33 565           | 6 435            | 71.73 | 46.6  | 29.09 | 0.4865 | 0.316  | 0.1973 | 353.5    | 45 625           | 17 488           |      |
| 33 566           | 10 450           | 76.33 | 45.99 | 57.33 | 0.4248 | 0.2559 | 0.3191 | 319.8    | -1 498c          | 19 498           |      |
| 33 568           | 12 460           | 77.54 | 45.08 | 70.69 | 0.4011 | 0.2332 | 0.3656 | 304.1    | -1 507c          | 21 507           |      |
| 33 569           | 13 465           | 77.44 | 44.16 | 76.38 | 0.3911 | 0.223  | 0.3857 | 297.7    | -1 514c          | 22 514           |      |
| 34 571           | 14 470           | 76.96 | 43.31 | 81.08 | 0.3821 | 0.2151 | 0.4026 | 292.4    | -1 522c          | 24 522           | Mm   |
| 35 575           | 14 475           | 74.7  | 40.87 | 81.08 | 0.3798 | 0.2078 | 0.4122 | 290.3    | -1 525c          | 25 525           |      |
| 36 581           | 16 480           | 70.66 | 37.55 | 87.71 | 0.3606 | 0.1916 | 0.4476 | 280.9    | -1 538c          | 27 538           |      |
| 39 595           | 17 485           | 59.98 | 30.32 | 89.88 | 0.3328 | 0.1683 | 0.4988 | 269.8    | -1 549c          | 29 549           |      |
| -1 490c          | 18 490           | 24.39 | 14.71 | 91.53 | 0.1867 | 0.1126 | 0.7006 | 236.4    | 11 459           | 33 568           | min  |
| -1 495c          | 19 495           | 24.42 | 15.89 | 92.79 | 0.1835 | 0.1193 | 0.697  | 235.0    | 12 461           | 33 568           |      |
| -1 499c          | 19 500           | 24.42 | 15.89 | 92.79 | 0.1835 | 0.1193 | 0.697  | 235.0    | 12 461           | 33 568           |      |
| -1 510c          | 22 510           | 24.54 | 21.45 | 95.06 | 0.1739 | 0.152  | 0.6739 | 228.6    | 13 469           | 34 571           |      |
| -1 520c          | 24 520           | 25.08 | 27.15 | 95.72 | 0.1695 | 0.1835 | 0.6469 | 222.4    | 14 473           | 34 574           | Bm   |
| -1 530c          | 26 530           | 26.42 | 34.09 | 96.07 | 0.1687 | 0.2177 | 0.6135 | 215.1    | 15 477           | 35 577           |      |
| -1 540c          | 28 540           | 28.78 | 41.78 | 96.24 | 0.1725 | 0.2504 | 0.5769 | 207.2    | 15 479           | 36 581           |      |
| -1 545c          | 29 545           | 30.38 | 45.77 | 96.28 | 0.1762 | 0.2654 | 0.5583 | 203.3    | 16 480           | 36 583           |      |
| -1 549c          | 29 550           | 30.38 | 45.77 | 96.28 | 0.1762 | 0.2654 | 0.5583 | 203.3    | 16 480           | 36 583           |      |
| -1 554c          | 30 555           | 32.3  | 49.8  | 96.31 | 0.181  | 0.2791 | 0.5398 | 199.5    | 16 482           | 37 585           |      |
| -1 560c          | 32 560           | 37.11 | 57.83 | 96.34 | 0.194  | 0.3023 | 0.5036 | 192.5    | 16 483           | 38 590           |      |
| W0 380           | 770              | 90.0  | 90.0  | 90.0  | 0.3333 | 0.3333 | 0.3333 | 0.0      |                  |                  |      |
| N0 380           | 770              | 3.6   | 3.6   | 3.6   | 0.3333 | 0.3333 | 0.3333 | 0.0      |                  |                  |      |

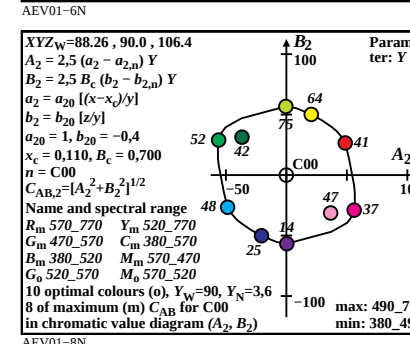
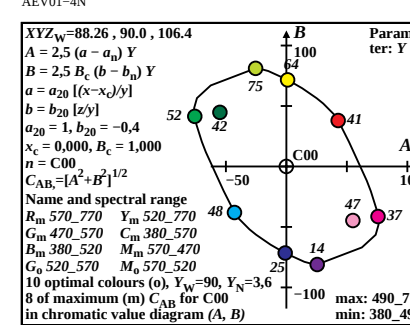
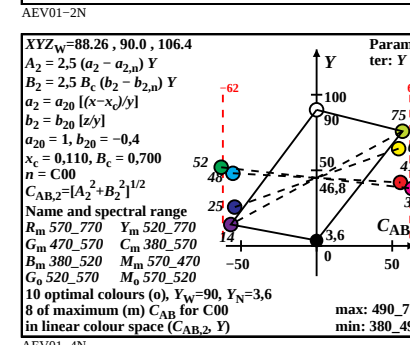
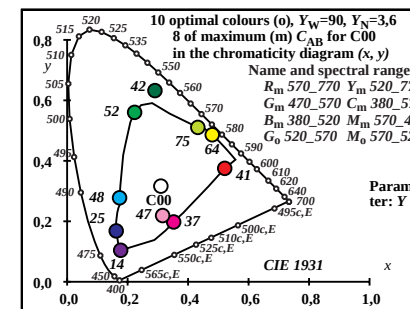
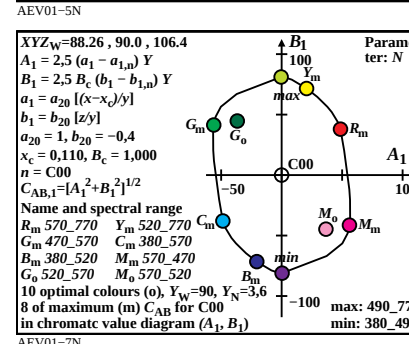
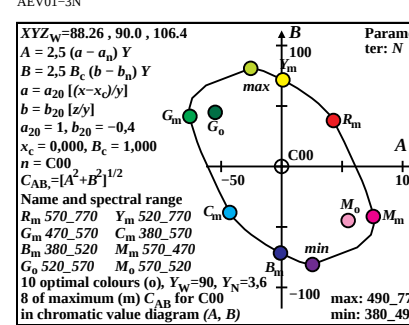
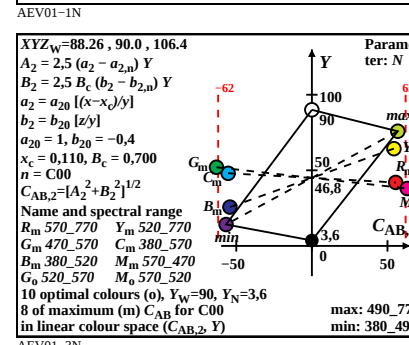
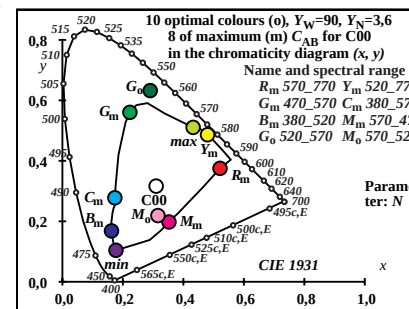
TUB-test chart AEV0; Hue circle of the Ostwald optimal colours with Y values,  $Y_N=0,0$ ,  $Y_W=90$   
Ostwald optimal colour data: XYZ and eight different colour diagrams, E00-02



Ostwald optimal colours (o), maximum (m)  $C_{AB}$  for C00,  $Y_N=0$ ,  $Y_W=90$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | X     | Y     | Z      | x      | y      | z      | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-------|-------|--------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 32 562           | 33.31 | 53.39 | 105.37 | 0.1734 | 0.2779 | 0.5485 | 195.6    | 16 482           | 37 589           | Cm   |
| 6 435            | 32 563           | 30.01 | 54.08 | 86.45  | 0.1759 | 0.3171 | 0.5069 | 179.5    | 17 486           | 42 612           |      |
| 10 450           | 32 564           | 24.28 | 54.92 | 51.75  | 0.1854 | 0.4194 | 0.3951 | 140.3    | 19 496           | -1 496c          |      |
| 11 460           | 33 566           | 23.64 | 55.77 | 43.21  | 0.1927 | 0.4548 | 0.3523 | 130.1    | 20 501           | -1 501c          |      |
| 13 465           | 33 568           | 22.4  | 56.56 | 28.17  | 0.2091 | 0.5279 | 0.2629 | 115.4    | 22 513           | -1 513c          |      |
| 14 470           | 34 570           | 22.98 | 57.79 | 22.31  | 0.2229 | 0.5605 | 0.2164 | 109.5    | 24 522           | -1 522c          | Gm   |
| 15 475           | 35 575           | 25.24 | 60.29 | 17.65  | 0.2446 | 0.5842 | 0.171  | 103.6    | 26 530           | -1 530c          |      |
| 16 480           | 36 582           | 30.95 | 65.05 | 14.08  | 0.2811 | 0.5908 | 0.1279 | 95.9     | 28 540           | -1 540c          |      |
| 16 485           | 40 602           | 45.67 | 74.9  | 14.1   | 0.3391 | 0.5561 | 0.1047 | 83.0     | 30 551           | -1 551c          |      |
| 18 490           | -1 490c          | 71.26 | 84.24 | 9.45   | 0.432  | 0.5106 | 0.0573 | 57.8     | 33 566           | 11 459           | max  |
| 19 495           | -1 495c          | 71.22 | 82.89 | 7.99   | 0.4393 | 0.5113 | 0.0493 | 56.4     | 33 567           | 12 462           |      |
| 19 500           | -1 499c          | 71.22 | 82.89 | 7.99   | 0.4393 | 0.5113 | 0.0493 | 56.4     | 33 567           | 12 462           |      |
| 21 510           | -1 509c          | 71.17 | 79.34 | 6.12   | 0.4543 | 0.5065 | 0.0391 | 52.8     | 33 568           | 13 466           |      |
| 24 520           | -1 520c          | 70.57 | 71.51 | 4.93   | 0.48   | 0.4864 | 0.0335 | 45.0     | 34 572           | 14 472           | Ym   |
| 26 530           | -1 530c          | 69.24 | 64.67 | 4.59   | 0.4999 | 0.4669 | 0.0331 | 38.4     | 35 575           | 15 475           |      |
| 28 540           | -1 540c          | 66.82 | 56.8  | 4.41   | 0.5219 | 0.4435 | 0.0345 | 31.0     | 35 579           | 15 478           |      |
| 28 545           | -1 544c          | 66.82 | 56.8  | 4.41   | 0.5219 | 0.4435 | 0.0345 | 31.0     | 35 579           | 15 478           |      |
| 29 550           | -1 549c          | 65.14 | 52.6  | 4.37   | 0.5334 | 0.4307 | 0.0358 | 27.1     | 36 581           | 15 479           |      |
| 31 555           | -1 555c          | 60.75 | 44.07 | 4.32   | 0.5566 | 0.4037 | 0.0395 | 19.5     | 37 586           | 16 481           |      |
| 31 560           | -1 559c          | 60.75 | 44.07 | 4.32   | 0.5566 | 0.4037 | 0.0395 | 19.5     | 37 586           | 16 481           |      |
| 32 562           | 1 405            | 64.75 | 46.6  | 12.85  | 0.5213 | 0.3752 | 0.1034 | 15.6     | 37 589           | 16 482           | Rm   |
| 32 563           | 6 435            | 68.06 | 45.91 | 31.76  | 0.467  | 0.315  | 0.2179 | 359.5    | 42 612           | 17 486           |      |
| 32 564           | 10 450           | 73.78 | 45.07 | 66.47  | 0.3981 | 0.2431 | 0.3586 | 320.3    | -1 496c          | 19 496           |      |
| 33 566           | 11 460           | 74.42 | 44.22 | 75.0   | 0.3843 | 0.2283 | 0.3873 | 310.2    | -1 501c          | 20 501           |      |
| 33 568           | 13 465           | 75.66 | 43.43 | 90.05  | 0.3617 | 0.2076 | 0.4305 | 295.5    | -1 513c          | 22 513           |      |
| 34 570           | 14 470           | 75.08 | 42.2  | 95.9   | 0.3521 | 0.1979 | 0.4498 | 289.6    | -1 522c          | 24 522           | Mm   |
| 35 575           | 15 475           | 72.82 | 39.7  | 100.56 | 0.3417 | 0.1863 | 0.4719 | 283.7    | -1 530c          | 26 530           |      |
| 36 582           | 16 480           | 67.12 | 34.94 | 104.13 | 0.3255 | 0.1694 | 0.505  | 276.0    | -1 540c          | 28 540           |      |
| 40 602           | 16 485           | 52.39 | 25.09 | 104.12 | 0.2885 | 0.1381 | 0.5733 | 263.1    | -1 551c          | 30 551           |      |
| -1 490c          | 18 490           | 26.8  | 15.75 | 108.77 | 0.1771 | 0.1041 | 0.7187 | 237.9    | 11 459           | 33 566           | min  |
| -1 495c          | 19 495           | 26.85 | 17.1  | 110.22 | 0.1741 | 0.1109 | 0.7148 | 236.5    | 12 462           | 33 567           |      |
| -1 499c          | 19 500           | 26.85 | 17.1  | 110.22 | 0.1741 | 0.1109 | 0.7148 | 236.5    | 12 462           | 33 567           |      |
| -1 509c          | 21 510           | 26.89 | 20.65 | 112.09 | 0.1684 | 0.1293 | 0.7021 | 232.8    | 13 466           | 33 568           |      |
| -1 520c          | 24 520           | 27.49 | 28.48 | 113.29 | 0.1624 | 0.1682 | 0.6693 | 225.0    | 14 472           | 34 572           | Bm   |
| -1 530c          | 26 530           | 28.82 | 35.32 | 113.63 | 0.1621 | 0.1986 | 0.6391 | 218.4    | 15 475           | 35 575           |      |
| -1 540c          | 28 540           | 31.24 | 43.19 | 113.8  | 0.1659 | 0.2294 | 0.6045 | 211.0    | 15 478           | 35 579           |      |
| -1 544c          | 28 545           | 31.24 | 43.19 | 113.8  | 0.1659 | 0.2294 | 0.6045 | 211.0    | 15 478           | 35 579           |      |
| -1 549c          | 29 550           | 32.92 | 47.39 | 113.85 | 0.1695 | 0.244  | 0.5863 | 207.1    | 15 479           | 36 581           |      |
| -1 555c          | 31 555           | 37.31 | 55.92 | 113.9  | 0.1801 | 0.2699 | 0.5498 | 199.5    | 16 481           | 37 586           |      |
| -1 559c          | 31 560           | 37.31 | 55.92 | 113.9  | 0.1801 | 0.2699 | 0.5498 | 199.5    | 16 481           | 37 586           |      |
| W0 380           | 770              | 88.26 | 90.0  | 106.4  | 0.31   | 0.3161 | 0.3737 | 0.0      |                  |                  |      |
| N0 380           | 770              | 3.53  | 3.6   | 4.25   | 0.31   | 0.3161 | 0.3737 | 0.0      |                  |                  |      |

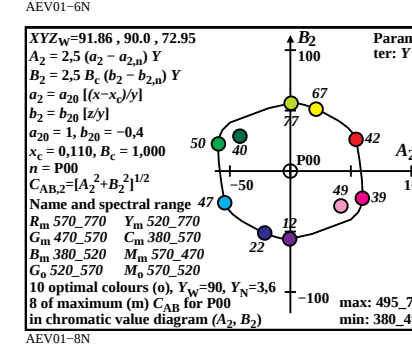
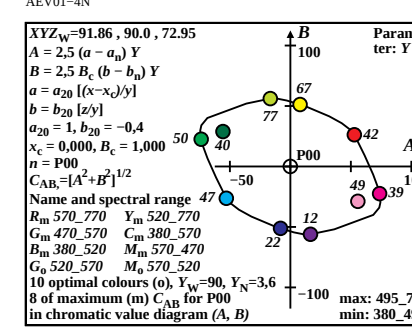
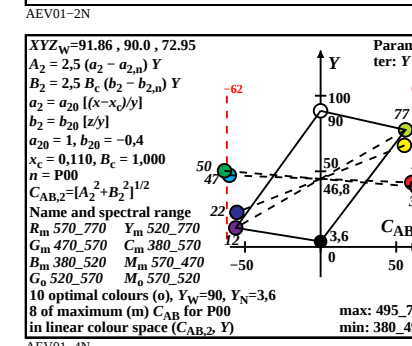
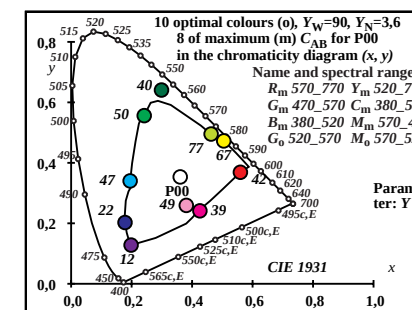
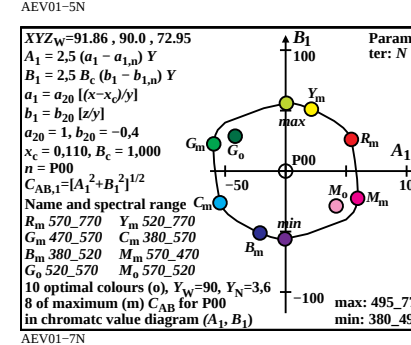
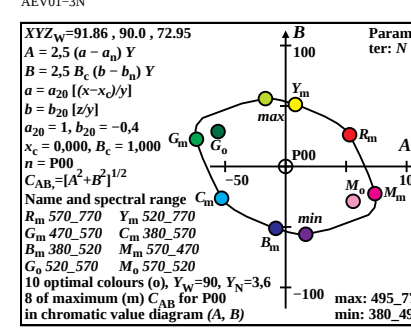
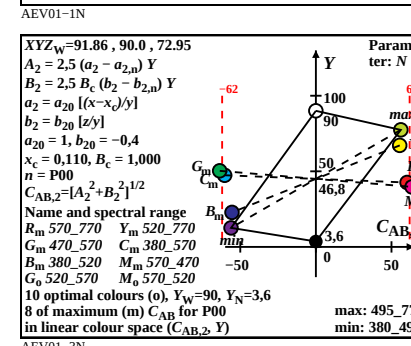
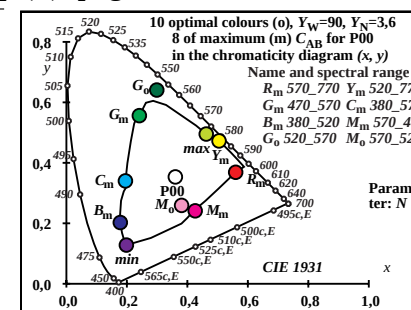
TUB-test chart AEV0; Hue circle of the Ostwald optimal colours with Y values,  $Y_N=0,0$ ,  $Y_W=90$   
Ostwald optimal colour data: XYZ and eight different colour diagrams, C00-02



Ostwald optimal colours (o), maximum (m)  $C_{AB}$  for P00,  $Y_N=0$ ,  $Y_W=90$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | X     | Y     | Z     | x      | y      | z      | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-------|-------|-------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 33 567           | 30.23 | 52.67 | 71.87 | 0.1953 | 0.3402 | 0.4643 | 184.4    | 17 486           | 38 594           | Cm   |
| 7 435            | 33 567           | 26.81 | 53.01 | 53.14 | 0.2016 | 0.3986 | 0.3996 | 164.0    | 18 491           | -1 491c          |      |
| 10 450           | 33 568           | 24.24 | 53.57 | 36.03 | 0.2129 | 0.4705 | 0.3164 | 141.4    | 19 499           | -1 499c          |      |
| 12 460           | 34 570           | 22.73 | 53.69 | 25.06 | 0.2239 | 0.529  | 0.2469 | 127.8    | 21 507           | -1 507c          |      |
| 13 465           | 34 571           | 22.87 | 54.38 | 20.32 | 0.2344 | 0.5573 | 0.2082 | 121.6    | 22 513           | -1 513c          | Gm   |
| 13 470           | 34 572           | 24.26 | 55.89 | 20.32 | 0.2414 | 0.5562 | 0.2022 | 120.3    | 23 515           | -1 515c          | Gm   |
| 15 475           | 35 575           | 25.01 | 56.94 | 13.16 | 0.2629 | 0.5986 | 0.1383 | 111.6    | 25 529           | -1 529c          |      |
| 16 480           | 36 580           | 28.39 | 59.85 | 10.68 | 0.2869 | 0.605  | 0.1079 | 106.2    | 27 537           | -1 537c          |      |
| 17 485           | 37 589           | 36.65 | 65.78 | 8.79  | 0.3295 | 0.5914 | 0.079  | 97.3     | 29 547           | -1 547c          |      |
| 18 490           | 45 625           | 65.84 | 80.35 | 7.35  | 0.4288 | 0.5232 | 0.0478 | 68.0     | 32 564           | -1 564c          |      |
| 18 495           | -1 494c          | 80.37 | 85.99 | 7.35  | 0.4626 | 0.495  | 0.0423 | 54.2     | 34 570           | 12 460           | max  |
| 20 500           | -1 500c          | 80.32 | 83.62 | 5.35  | 0.4744 | 0.4939 | 0.0316 | 50.9     | 34 571           | 13 465           |      |
| 22 510           | -1 510c          | 80.23 | 79.9  | 4.17  | 0.4882 | 0.4862 | 0.0254 | 46.1     | 34 573           | 14 470           |      |
| 24 520           | -1 520c          | 79.73 | 74.6  | 3.56  | 0.5049 | 0.4724 | 0.0225 | 39.5     | 35 575           | 14 474           | Ym   |
| 25 530           | -1 529c          | 79.2  | 71.45 | 3.37  | 0.5141 | 0.4638 | 0.0219 | 35.7     | 35 577           | 15 476           |      |
| 28 540           | -1 540c          | 76.18 | 60.63 | 3.07  | 0.5445 | 0.4334 | 0.022  | 23.5     | 36 582           | 16 481           |      |
| 28 545           | -1 544c          | 76.18 | 60.63 | 3.07  | 0.5445 | 0.4334 | 0.022  | 23.5     | 36 582           | 16 481           |      |
| 30 550           | -1 550c          | 72.72 | 52.75 | 3.0   | 0.566  | 0.4105 | 0.0233 | 15.5     | 37 586           | 16 483           |      |
| 30 555           | -1 554c          | 72.72 | 52.75 | 3.0   | 0.566  | 0.4105 | 0.0233 | 15.5     | 37 586           | 16 483           |      |
| 32 560           | -1 560c          | 67.91 | 44.73 | 2.97  | 0.5874 | 0.3868 | 0.0257 | 8.4      | 38 591           | 17 485           |      |
| 33 567           | 1 405            | 71.83 | 47.32 | 9.18  | 0.5596 | 0.3687 | 0.0715 | 4.4      | 38 594           | 17 486           | Rm   |
| 33 567           | 7 435            | 75.24 | 46.98 | 27.91 | 0.5011 | 0.3129 | 0.1859 | 344.0    | -1 491c          | 18 491           |      |
| 33 568           | 10 450           | 77.81 | 46.42 | 45.02 | 0.4597 | 0.2742 | 0.266  | 321.5    | -1 499c          | 19 499           |      |
| 34 570           | 12 460           | 79.33 | 46.3  | 55.99 | 0.4367 | 0.2549 | 0.3082 | 307.8    | -1 507c          | 21 507           |      |
| 34 571           | 13 465           | 79.19 | 45.61 | 60.74 | 0.4268 | 0.2458 | 0.3273 | 301.7    | -1 513c          | 22 513           |      |
| 34 572           | 13 470           | 77.8  | 44.1  | 60.73 | 0.4259 | 0.2414 | 0.3325 | 300.4    | -1 515c          | 23 515           | Mm   |
| 35 575           | 15 475           | 77.05 | 43.05 | 67.89 | 0.4098 | 0.2289 | 0.3611 | 291.7    | -1 529c          | 25 529           |      |
| 36 580           | 16 480           | 73.67 | 40.14 | 70.37 | 0.3999 | 0.2179 | 0.382  | 286.3    | -1 537c          | 27 537           |      |
| 37 589           | 17 485           | 65.4  | 34.21 | 72.26 | 0.3805 | 0.199  | 0.4204 | 277.4    | -1 547c          | 29 547           |      |
| 45 625           | 18 490           | 36.21 | 19.64 | 73.7  | 0.2795 | 0.1516 | 0.5688 | 248.1    | -1 564c          | 32 564           |      |
| -1 494c          | 18 495           | 21.69 | 14.0  | 73.7  | 0.1982 | 0.1279 | 0.6737 | 234.2    | 12 460           | 34 570           | min  |
| -1 500c          | 20 500           | 21.74 | 16.37 | 75.7  | 0.191  | 0.1438 | 0.6651 | 231.0    | 13 465           | 34 571           |      |
| -1 510c          | 22 510           | 21.83 | 20.09 | 76.88 | 0.1837 | 0.1691 | 0.6471 | 226.1    | 14 470           | 34 573           |      |
| -1 520c          | 24 520           | 22.33 | 25.39 | 77.49 | 0.1783 | 0.2027 | 0.6188 | 219.5    | 14 474           | 35 575           |      |
| -1 529c          | 25 530           | 22.85 | 28.54 | 77.68 | 0.177  | 0.2211 | 0.6018 | 215.7    | 15 476           | 35 577           |      |
| -1 540c          | 28 540           | 25.88 | 39.36 | 77.98 | 0.1807 | 0.2748 | 0.5444 | 203.5    | 16 481           | 36 582           |      |
| -1 544c          | 28 545           | 25.88 | 39.36 | 77.98 | 0.1807 | 0.2748 | 0.5444 | 203.5    | 16 481           | 36 582           |      |
| -1 550c          | 30 550           | 29.33 | 47.24 | 78.05 | 0.1897 | 0.3055 | 0.5047 | 195.6    | 16 483           | 37 586           |      |
| -1 554c          | 30 555           | 29.33 | 47.24 | 78.05 | 0.1897 | 0.3055 | 0.5047 | 195.6    | 16 483           | 37 586           |      |
| -1 560c          | 32 560           | 34.14 | 55.26 | 78.08 | 0.2038 | 0.3299 | 0.4661 | 188.4    | 17 485           | 38 591           |      |
| W0 380           | 770              | 91.86 | 90.0  | 72.95 | 0.3604 | 0.3531 | 0.2863 | 0.0      |                  |                  |      |
| N0 380           | 770              | 3.67  | 3.6   | 2.91  | 0.3604 | 0.3531 | 0.2863 | 0.0      |                  |                  |      |

TUB-test chart AEV0; Hue circle of the Ostwald optimal colours with Y values,  $Y_N=0,0$ ,  $Y_W=90$   
Ostwald optimal colour data: XYZ and eight different colour diagrams, P00-02



Ostwald optimal colours (o), maximum (m)  $C_{AB}$  for Q00,  $Y_N=0$ ,  $Y_W=90$ ,  $Y_m=520\_770$

| $i_1, \lambda_1$ | $i_2, \lambda_2$ | X     | Y     | Z      | x      | y      | z      | $h_{xy}$ | $i_d, \lambda_d$ | $i_c, \lambda_c$ | Code |
|------------------|------------------|-------|-------|--------|--------|--------|--------|----------|------------------|------------------|------|
| 1 405            | 32 562           | 33.12 | 53.55 | 105.16 | 0.1726 | 0.2791 | 0.5481 | 194.9    | 16 482           | 38 590           | Cm   |
| 7 435            | 32 562           | 27.52 | 54.09 | 75.04  | 0.1756 | 0.3452 | 0.479  | 167.4    | 17 488           | -1 488c          |      |
| 10 450           | 32 564           | 23.54 | 54.98 | 49.3   | 0.1841 | 0.4301 | 0.3857 | 137.4    | 19 497           | -1 497c          |      |
| 11 460           | 33 566           | 22.93 | 55.81 | 41.14  | 0.1912 | 0.4655 | 0.3431 | 128.1    | 20 502           | -1 502c          |      |
| 12 465           | 33 568           | 22.83 | 56.97 | 33.55  | 0.2014 | 0.5025 | 0.2959 | 119.8    | 21 508           | -1 508c          | Gm   |
| 14 470           | 34 570           | 22.37 | 57.8  | 21.47  | 0.2201 | 0.5686 | 0.2112 | 109.3    | 24 522           | -1 522c          | Gm   |
| 15 475           | 35 575           | 24.6  | 60.27 | 17.17  | 0.2411 | 0.5906 | 0.1682 | 103.8    | 26 530           | -1 530c          |      |
| 16 480           | 36 582           | 30.32 | 65.07 | 13.89  | 0.2774 | 0.5954 | 0.1271 | 96.4     | 27 539           | -1 539c          |      |
| 17 485           | 40 602           | 45.41 | 74.39 | 11.43  | 0.346  | 0.5668 | 0.0871 | 81.6     | 30 552           | -1 552c          |      |
| 17 490           | -1 489c          | 70.95 | 85.62 | 11.44  | 0.4222 | 0.5096 | 0.0681 | 59.7     | 33 565           | 11 455           | max  |
| 18 495           | -1 494c          | 70.84 | 84.56 | 9.58   | 0.4293 | 0.5125 | 0.0581 | 58.5     | 33 565           | 11 458           |      |
| 20 500           | -1 500c          | 70.78 | 81.63 | 7.1    | 0.4437 | 0.5117 | 0.0445 | 55.5     | 33 567           | 12 463           |      |
| 21 510           | -1 509c          | 70.75 | 79.62 | 6.28   | 0.4516 | 0.5082 | 0.04   | 53.4     | 33 568           | 13 465           |      |
| 23 520           | -1 519c          | 70.47 | 74.31 | 5.27   | 0.4696 | 0.4952 | 0.0351 | 48.1     | 34 571           | 14 470           | Ym   |
| 26 530           | -1 530c          | 68.68 | 63.76 | 4.61   | 0.501  | 0.4652 | 0.0336 | 37.9     | 35 576           | 15 475           |      |
| 27 540           | -1 539c          | 67.59 | 59.83 | 4.51   | 0.5123 | 0.4534 | 0.0341 | 34.1     | 35 578           | 15 477           |      |
| 28 545           | -1 544c          | 66.24 | 55.8  | 4.44   | 0.5237 | 0.4411 | 0.0351 | 30.3     | 36 580           | 15 478           |      |
| 29 550           | -1 549c          | 64.6  | 51.71 | 4.39   | 0.5351 | 0.4284 | 0.0364 | 26.5     | 36 582           | 15 479           |      |
| 30 555           | -1 554c          | 62.66 | 47.63 | 4.36   | 0.5465 | 0.4153 | 0.038  | 22.7     | 36 584           | 16 480           |      |
| 31 560           | -1 559c          | 60.42 | 43.57 | 4.34   | 0.5576 | 0.4022 | 0.0401 | 19.2     | 37 587           | 16 481           |      |
| 32 562           | 1 405            | 64.8  | 46.44 | 13.78  | 0.5183 | 0.3714 | 0.1102 | 14.9     | 38 590           | 16 482           | Rm   |
| 32 562           | 7 435            | 70.4  | 45.9  | 43.9   | 0.4394 | 0.2864 | 0.274  | 347.4    | -1 488c          | 17 488           |      |
| 32 564           | 10 450           | 74.38 | 45.01 | 69.64  | 0.3934 | 0.2381 | 0.3683 | 317.5    | -1 497c          | 19 497           |      |
| 33 566           | 11 460           | 74.99 | 44.18 | 77.8   | 0.3807 | 0.2243 | 0.3949 | 308.1    | -1 502c          | 20 502           |      |
| 33 568           | 12 465           | 75.09 | 43.02 | 85.39  | 0.369  | 0.2113 | 0.4196 | 299.9    | -1 508c          | 21 508           |      |
| 34 570           | 14 470           | 75.55 | 42.19 | 97.47  | 0.351  | 0.196  | 0.4528 | 289.4    | -1 522c          | 24 522           | Mm   |
| 35 575           | 15 475           | 73.32 | 39.72 | 101.77 | 0.3413 | 0.1849 | 0.4737 | 283.9    | -1 530c          | 26 530           |      |
| 36 582           | 16 480           | 67.6  | 34.92 | 105.05 | 0.3256 | 0.1682 | 0.5061 | 276.4    | -1 539c          | 27 539           |      |
| 40 602           | 17 485           | 52.51 | 25.6  | 107.51 | 0.2829 | 0.1379 | 0.5791 | 261.6    | -1 552c          | 30 552           |      |
| -1 489c          | 17 490           | 26.98 | 14.37 | 107.51 | 0.1812 | 0.0965 | 0.7221 | 239.7    | 11 455           | 33 565           | min  |
| -1 494c          | 18 495           | 27.08 | 15.43 | 109.36 | 0.1783 | 0.1015 | 0.72   | 238.6    | 11 458           | 33 565           |      |
| -1 500c          | 20 500           | 27.14 | 18.36 | 111.85 | 0.1725 | 0.1167 | 0.7107 | 235.5    | 12 463           | 33 567           |      |
| -1 509c          | 21 510           | 27.17 | 20.37 | 112.67 | 0.1696 | 0.1271 | 0.7032 | 233.5    | 13 465           | 33 568           |      |
| -1 519c          | 23 520           | 27.45 | 25.68 | 113.68 | 0.1646 | 0.1539 | 0.6814 | 228.2    | 14 470           | 34 571           | Bm   |
| -1 530c          | 26 530           | 29.24 | 36.23 | 114.33 | 0.1626 | 0.2014 | 0.6358 | 217.9    | 15 475           | 35 576           |      |
| -1 539c          | 27 540           | 30.33 | 40.16 | 114.44 | 0.164  | 0.2171 | 0.6188 | 214.1    | 15 477           | 35 578           |      |
| -1 544c          | 28 545           | 31.68 | 44.19 | 114.51 | 0.1664 | 0.2321 | 0.6014 | 210.3    | 15 478           | 36 580           |      |
| -1 549c          | 29 550           | 33.32 | 48.28 | 114.56 | 0.1698 | 0.2461 | 0.5839 | 206.5    | 15 479           | 36 582           |      |
| -1 554c          | 30 555           | 35.26 | 52.36 | 114.58 | 0.1743 | 0.2589 | 0.5666 | 202.8    | 16 480           | 36 584           |      |
| -1 559c          | 31 560           | 37.51 | 56.42 | 114.6  | 0.1798 | 0.2705 | 0.5495 | 199.2    | 16 481           | 37 587           |      |
| W0 380           | 770              | 88.13 | 90.0  | 107.05 | 0.309  | 0.3155 | 0.3753 | 0.0      |                  |                  |      |
| N0 380           | 770              | 3.52  | 3.6   | 4.28   | 0.309  | 0.3155 | 0.3753 | 0.0      |                  |                  |      |

TUB-test chart AEV0; Hue circle of the Ostwald optimal colours with Y values,  $Y_N=0,0$ ,  $Y_W=90$   
Ostwald optimal colour data: XYZ and eight different colour diagrams, Q00-02

