

http://farbe.li.tu-berlin.de/DEFI/DEFI_LONI.TXT /PS; only vector graphic VG; start output
 N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 1/1

Oswald optimal colours (o), maximum (m) C_{AB} for D65, Y_N=3.6, Y_W=90, Y_m=520.770

| i_1, λ_1 | i_2, λ_2 | X | Y | Z | x | y | z | b_{xy} | i_d, λ_d | i_c, λ_c | i_e, λ_e | Code |
|------------------|------------------|---------|-------|-------|-------|--------|--------|----------|------------------|------------------|------------------|-----------------------|
| 0 | 405 | 32 561 | 28.34 | 48.4 | 87.6 | 0.1724 | 0.2945 | 0.533 | 193.8 | 16 483 | 37 589 | Cm |
| 6 | 435 | 32 562 | 25.69 | 48.95 | 72.52 | 0.1746 | 0.3326 | 0.4927 | 178.5 | 17 486 | 42 610 | Cm |
| 10 | 450 | 32 563 | 21.01 | 49.59 | 44.25 | 0.1829 | 0.4317 | 0.3852 | 141.6 | 19 496 | -1 496c | Cm |
| 12 | 460 | 33 565 | 19.15 | 49.94 | 29.98 | 0.1933 | 0.504 | 0.3026 | 124.2 | 21 505 | -1 505c | Cm |
| 12 | 465 | 33 567 | 20.12 | 51.15 | 29.99 | 0.1987 | 0.5051 | 0.2961 | 122.8 | 21 506 | -1 506c | Cm |
| 14 | 470 | 33 569 | 19.94 | 52.23 | 19.06 | 0.2186 | 0.5724 | 0.2089 | 111.1 | 24 520 | -1 520c | Cm |
| 15 | 475 | 34 573 | 21.65 | 54.1 | 15.12 | 0.2382 | 0.5953 | 0.1664 | 105.6 | 25 528 | -1 528c | Mm |
| 16 | 480 | 36 580 | 25.4 | 57.45 | 12.12 | 0.2674 | 0.6048 | 0.1176 | 99.2 | 27 537 | -1 537c | Mm |
| 17 | 485 | 39 595 | 35.62 | 64.35 | 9.93 | 0.3241 | 0.5855 | 0.0903 | 87.4 | 29 548 | -1 548c | Mm |
| 18 | 490 | -1 490c | 63.02 | 76.18 | 8.3 | 0.4272 | 0.5164 | 0.0562 | 58.5 | 33 565 | 11 459 | max |
| 19 | 495 | -1 495c | 62.98 | 75.01 | 7.04 | 0.4342 | 0.5171 | 0.0485 | 57.1 | 33 566 | 12 462 | max |
| 20 | 500 | -1 500c | 62.97 | 73.55 | 6.07 | 0.4416 | 0.5158 | 0.0425 | 55.3 | 33 567 | 12 464 | max |
| 22 | 510 | -1 510c | 62.87 | 69.55 | 4.8 | 0.4581 | 0.5068 | 0.035 | 50.6 | 33 569 | 13 469 | max |
| 23 | 520 | -1 519c | 62.69 | 66.99 | 4.43 | 0.4674 | 0.4995 | 0.033 | 47.7 | 34 570 | 14 471 | Ym |
| 25 | 530 | -1 529c | 61.81 | 60.81 | 3.97 | 0.4882 | 0.4803 | 0.0314 | 40.7 | 34 573 | 15 475 | Ym |
| 27 | 540 | -1 539c | 60.05 | 53.7 | 3.73 | 0.511 | 0.4571 | 0.0318 | 32.8 | 35 577 | 15 478 | Ym |
| 28 | 545 | -1 544c | 58.8 | 49.99 | 3.67 | 0.5228 | 0.4445 | 0.0326 | 28.7 | 35 579 | 15 479 | Ym |
| 29 | 550 | -1 549c | 57.28 | 46.21 | 3.62 | 0.5347 | 0.4313 | 0.0338 | 24.7 | 36 582 | 16 480 | Ym |
| 30 | 555 | -1 554c | 55.49 | 42.43 | 3.6 | 0.5465 | 0.4179 | 0.0354 | 20.8 | 36 584 | 16 481 | Ym |
| 32 | 560 | -1 560c | 51.12 | 35.12 | 3.57 | 0.5691 | 0.391 | 0.0397 | 13.6 | 37 589 | 16 483 | Ym |
| 32 | 561 | 0 405 | 57.19 | 41.59 | 10.39 | 0.5238 | 0.3809 | 0.0951 | 13.8 | 37 589 | 16 483 | Rm |
| 32 | 562 | 6 435 | 59.84 | 41.04 | 25.47 | 0.4735 | 0.3248 | 0.2016 | 35.85 | 42 610 | 17 486 | Rm |
| 32 | 563 | 10 450 | 64.52 | 40.4 | 53.74 | 0.4066 | 0.2546 | 0.3387 | 321.6 | -1 496c | 19 496 | Rm |
| 33 | 565 | 12 460 | 66.38 | 40.05 | 68.01 | 0.3805 | 0.2295 | 0.3898 | 304.3 | -1 505c | 21 505 | Rm |
| 33 | 567 | 12 465 | 65.41 | 38.84 | 68.01 | 0.3797 | 0.2254 | 0.3947 | 302.9 | -1 506c | 21 506 | Rm |
| 33 | 569 | 14 470 | 65.59 | 37.76 | 78.93 | 0.3598 | 0.2071 | 0.433 | 291.1 | -1 520c | 24 520 | Rm |
| 34 | 573 | 15 475 | 63.88 | 35.89 | 82.87 | 0.3497 | 0.1964 | 0.4537 | 285.6 | -1 528c | 25 528 | Mm |
| 36 | 580 | 16 480 | 60.13 | 32.54 | 85.87 | 0.3367 | 0.1822 | 0.4809 | 279.3 | -1 537c | 27 537 | Mm |
| 39 | 595 | 17 485 | 49.91 | 25.48 | 88.06 | 0.305 | 0.1567 | 0.5382 | 267.4 | -1 548c | 29 548 | Mm |
| -1 | 490c | 18 490 | 22.51 | 13.81 | 89.7 | 0.1786 | 0.1096 | 0.7117 | 238.5 | 11 459 | 33 565 | min |
| -1 | 495c | 19 495 | 22.55 | 14.98 | 90.95 | 0.1755 | 0.1166 | 0.7078 | 237.1 | 12 462 | 33 566 | min |
| -1 | 500c | 20 500 | 22.56 | 16.44 | 91.92 | 0.1723 | 0.1256 | 0.702 | 235.4 | 12 464 | 33 567 | min |
| -1 | 510c | 22 510 | 22.66 | 20.44 | 93.19 | 0.1662 | 0.1499 | 0.6837 | 230.7 | 13 469 | 33 569 | min |
| -1 | 519c | 23 520 | 22.84 | 23.0 | 93.56 | 0.1638 | 0.165 | 0.6711 | 227.7 | 14 471 | 34 570 | Bm |
| -1 | 529c | 25 530 | 23.72 | 29.18 | 94.02 | 0.1614 | 0.1986 | 0.6399 | 220.7 | 15 475 | 34 573 | Bm |
| -1 | 539c | 27 540 | 25.48 | 36.29 | 94.26 | 0.1633 | 0.2325 | 0.604 | 212.8 | 15 478 | 35 577 | Bm |
| -1 | 544c | 28 545 | 26.73 | 40.0 | 94.33 | 0.1659 | 0.2483 | 0.5856 | 208.8 | 15 479 | 35 579 | Bm |
| -1 | 549c | 29 550 | 28.25 | 43.78 | 94.37 | 0.1697 | 0.2631 | 0.567 | 204.7 | 16 480 | 36 582 | Bm |
| -1 | 554c | 30 555 | 30.04 | 47.56 | 94.4 | 0.1746 | 0.2765 | 0.5488 | 200.8 | 16 481 | 36 584 | Bm |
| -1 | 560c | 32 560 | 34.41 | 54.87 | 94.43 | 0.1873 | 0.2986 | 0.5139 | 193.6 | 16 483 | 37 589 | Bm |
| W0 | 380 | 770 | 85.53 | 90.0 | 98.0 | 0.3127 | 0.329 | 0.3582 | 0.0 | 0.0 | 0.0 | B _m =1,000 |
| N0 | 380 | 770 | 3.42 | 3.6 | 3.92 | 0.3127 | 0.329 | 0.3582 | 0.0 | 0.0 | 0.0 | x _c =0,000 |

TUB-test chart DEF1; YABCW optimal colours, Y_N=3.6, Y_W=90, illuminant D65, CIE-02-degree
 Table data: XYZ and Y_{AB} with different wavelength ranges

Oswald optimal colours (o), maximum (m) C_{AB} for D65, Y_N=3.6, Y_W=90, Y_m=520.770

| i_1, λ_1 | i_2, λ_2 | Y | A | B | C _{AB} | b | b_{xy} | i_d, λ_d | i_c, λ_c | Code | | |
|------------------|------------------|---------|-------|--------|-----------------|-------|----------|------------------|------------------|-----------------------|---------|-----|
| 0 | 405 | 32 561 | 48.4 | -44.14 | -34.88 | 56.26 | 0.5853 | -0.7237 | 218.3 | 16 483 | 37 589 | Cm |
| 6 | 435 | 32 562 | 48.95 | -52.06 | -19.21 | 55.49 | 0.5247 | -0.5924 | 200.2 | 17 486 | 42 610 | Cm |
| 10 | 450 | 32 563 | 49.59 | -62.28 | 9.74 | 66.0 | 0.4236 | -0.3568 | 171.5 | 19 496 | -1 496c | Cm |
| 12 | 460 | 33 565 | 49.94 | -70.75 | 24.38 | 74.84 | 0.3834 | -0.2401 | 160.9 | 21 505 | -1 505c | Cm |
| 12 | 465 | 33 567 | 51.15 | -71.21 | 25.7 | 75.7 | 0.3933 | -0.2344 | 160.1 | 21 506 | -1 506c | Cm |
| 14 | 470 | 33 569 | 52.23 | -74.21 | 37.79 | 83.28 | 0.3818 | -0.146 | 153.0 | 24 520 | -1 520c | Cm |
| 15 | 475 | 34 573 | 54.1 | -74.41 | 43.77 | 86.33 | 0.4 | -0.1118 | 149.5 | 25 528 | -1 528c | Mm |
| 16 | 480 | 36 580 | 57.45 | -72.95 | 50.41 | 88.68 | 0.4421 | -0.0844 | 145.3 | 27 537 | -1 537c | Mm |
| 17 | 485 | 39 595 | 64.35 | -63.82 | 60.12 | 87.69 | 0.5534 | -0.0617 | 136.7 | 29 548 | -1 548c | Mm |
| 18 | 490 | -1 490c | 76.18 | -23.43 | 74.63 | 78.22 | 0.8271 | -0.0435 | 107.4 | 33 565 | 11 459 | max |
| 19 | 495 | -1 495c | 75.01 | -20.75 | 74.61 | 77.45 | 0.8394 | -0.0375 | 105.5 | 33 566 | 12 462 | max |
| 20 | 500 | -1 500c | 73.55 | -17.31 | 73.99 | 75.99 | 0.8559 | -0.033 | 103.1 | 33 567 | 12 464 | max |
| 22 | 510 | -1 510c | 69.55 | -8.06 | 70.91 | 71.36 | 0.9037 | -0.0276 | 96.5 | 33 569 | 13 469 | max |
| 23 | 520 | -1 519c | 66.99 | -2.43 | 68.49 | 68.54 | 0.9356 | -0.0264 | 92.0 | 34 570 | 14 471 | Ym |
| 25 | 530 | -1 529c | 60.81 | 10.04 | 62.23 | 63.03 | 1.0161 | -0.0261 | 80.8 | 34 573 | 15 475 | Ym |
| 27 | 540 | -1 539c | 53.7 | 22.51 | 54.73 | 59.18 | 1.1178 | -0.0276 | 67.5 | 35 577 | 15 478 | Ym |
| 28 | 545 | -1 544c | 49.99 | 28.21 | 50.75 | 58.06 | 1.1758 | -0.0293 | 60.9 | 35 579 | 15 479 | Ym |
| 29 | 550 | -1 549c | 46.21 | 33.39 | 46.68 | 57.39 | 1.2392 | -0.0314 | 54.4 | 36 582 | 16 480 | Ym |
| 30 | 555 | -1 554c | 42.43 | 37.9 | 42.59 | 57.01 | 1.3074 | -0.0339 | 48.3 | 36 584 | 16 481 | Ym |
| 32 | 560 | -1 560c | 35.12 | 44.32 | 34.66 | 56.27 | 1.4548 | -0.0406 | 38.0 | 37 589 | 16 483 | Ym |
| 32 | 561 | 0 405 | 41.59 | 44.15 | 34.88 | 56.27 | 1.3747 | -0.0999 | 38.3 | 37 589 | 16 483 | Rm |
| 32 | 562 | 6 435 | 41.04 | 52.06 | 19.21 | 55.49 | 1.4575 | -0.2481 | 20.2 | 42 610 | 17 486 | Rm |
| 32 | 563 | 10 450 | 40.4 | 65.27 | -9.74 | 65.99 | 1.5963 | -0.5318 | 351.5 | -1 496c | 19 496 | Rm |
| 33 | 565 | 12 460 | 40.05 | 70.74 | -24.38 | 74.82 | 1.6566 | -0.6789 | 340.9 | -1 505c | 21 505 | Rm |
| 33 | 567 | 12 465 | 38.84 | 71.19 | -25.69 | 75.68 | 1.6832 | -0.7 | 340.1 | -1 506c | 21 506 | Rm |
| 33 | 569 | 14 470 | 37.76 | 74.18 | -37.78 | 83.25 | 1.7359 | -0.8356 | 333.0 | -1 520c | 24 520 | Rm |
| 34 | 573 | 15 475 | 35.89 | 74.38 | -43.76 | 86.3 | 1.7791 | -0.9231 | 329.5 | -1 528c | 25 528 | Mm |
| 36 | 580 | 16 480 | 32.54 | 72.92 | -50.39 | 88.64 | 1.8464 | -1.0547 | 325.3 | -1 537c | 27 537 | Mm |
| 39 | 595 | 17 485 | 25.48 | 63.8 | -60.31 | 87.65 | 1.9454 | -1.373 | 316.7 | -1 548c | 29 548 | Mm |
| -1 | 490c | 18 490 | 13.81 | 23.41 | -74.58 | 78.16 | 1.6281 | -2.5947 | 287.4 | 11 459 | 33 565 | min |
| -1 | 495c | 19 495 | 14.98 | 20.74 | -74.56 | 77.37 | 1.5038 | -2.4259 | 285.5 | 12 462 | 33 566 | min |
| -1 | 500c | 20 500 | 16.44 | 17.3 | -73.95 | 75.94 | 1.3709 | -2.2338 | 283.1 | 12 464 | 33 567 | min |
| -1 | 510c | 22 510 | 20.44 | 8.05 | -70.87 | 71.33 | 1.1078 | -1.822 | 276.4 | 13 469 | 33 569 | min |
| -1 | 519c | 23 520 | 23.0 | 2.43 | -68.46 | 68.51 | 0.9924 | -1.6259 | 272.0 | 14 471 | 34 570 | Bm |
| -1 | 529c | 25 530 | 29.18 | -10.03 | -62.21 | 63.01 | 0.8125 | -1.2882 | 260.8 | 15 475 | 34 573 | Bm |
| -1 | 539c | 27 540 | 36.29 | -22.5 | -54.72 | 59.16 | 0.702 | -1.0385 | 247.6 | 15 478 | 35 577 | Bm |
| -1 | 544c | 28 545 | 40.0 | -28.2 | -50.74 | 58.05 | 0.6681 | -1.0428 | 240.9 | 15 479 | 35 579 | Bm |
| -1 | 549c | 29 550 | 43.78 | -33.39 | -46.67 | 57.38 | 0.645 | -0.8618 | 234.4 | 16 480 | 36 582 | Bm |
| -1 | 554c | 30 555 | 47.56 | -37.89 | -42.58 | 57.0 | 0.6314 | -0.7935 | 228.3 | 16 481 | 36 584 | Bm |
| -1 | 560c | 32 560 | 54.87 | -44.31 | -34.66 | 56.26 | 0.627 | -0.6881 | 218.0 | 16 483 | 37 589 | Bm |
| W0 | 380 | 770 | 90.0 | 0.0 | 0.0 | 0.0 | 0.9501 | -0.4354 | 0.0 | B _m =1,000 | | |
| N0 | 380 | 770 | 3.6 | 0.0 | 0.0 | 0.0 | 0.9501 | -0.4354 | 0.0 | x _c =0,000 | | |

see similar files: http://farbe.li.tu-berlin.de/DEFI/DEFI_LONI.TXT /PS
 technical information: <http://farbe.li.tu-berlin.de/> or <http://color.li.tu-berlin.de>

TUB registration: 20221101-DEFI/DEFI_LONI.TXT /PS
 application for evaluation and measurement of display or print output
 TUB material: code=mathta