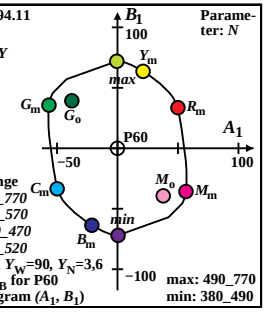
see similar files: http://farbe.li.tu-berlin.de/AEU9/AEU9.HTM
technical information: http://farbe.li.tu-berlin.de or http://130.149.60.45/~farbmetrik

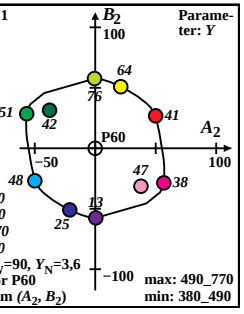
TUB registration: 20201101-AEU9/AEU9L0NP.PDF /.PS
application for evaluation and measurement of display or print output
TUB material: code=rha4ta

$XYZ_W$=87.36 , 89.99 , 94.11
$A_1 = 2{,}5\ (a_1 - a_{1,n})\ Y$
$B_1 = 2{,}5\ B_c\ (b_1 - b_{1,n})\ Y$
$a_1 = a_{20}\ [(x-x_c)/y]$
$b_1 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}000$
$n$ = P60
$C_{AB,1} = [A_1^2 + B_1^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P60
in chromatic value diagram ($A_1$, $B_1$)
max: 490_770
min: 380_490



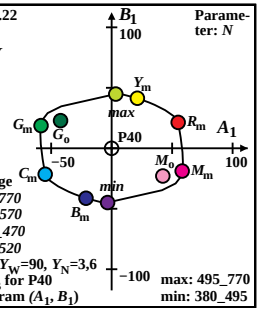

AEU90−1N

$XYZ_W$=87.36 , 89.99 , 94.11
$A_2 = 2{,}5\ (a_2 - a_{2,n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2,n})\ Y$
$a_2 = a_{20}\ [(x-x_c)/y]$
$b_2 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 0{,}800$
$n$ = P60
$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P60
in chromatic value diagram ($A_2$, $B_2$)
max: 490_770
min: 380_490



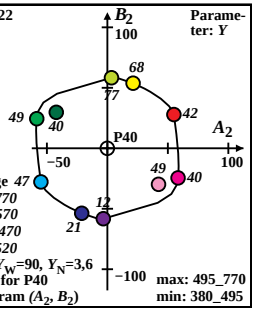

AEU90−2N

$XYZ_W$=90.83 , 90.0 , 58.22
$A_1 = 2{,}5\ (a_1 - a_{1,n})\ Y$
$B_1 = 2{,}5\ B_c\ (b_1 - b_{1,n})\ Y$
$a_1 = a_{20}\ [(x-x_c)/y]$
$b_1 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}000$
$n$ = P40
$C_{AB,1} = [A_1^2 + B_1^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P40
in chromatic value diagram ($A_1$, $B_1$)
max: 495_770
min: 380_495



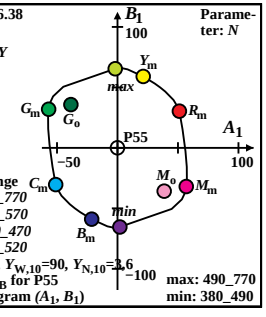

AEU91−1N

$XYZ_W$=90.83 , 90.0 , 58.22
$A_2 = 2{,}5\ (a_2 - a_{2,n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2,n})\ Y$
$a_2 = a_{20}\ [(x-x_c)/y]$
$b_2 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}300$
$n$ = P40
$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P40
in chromatic value diagram ($A_2$, $B_2$)
max: 495_770
min: 380_495



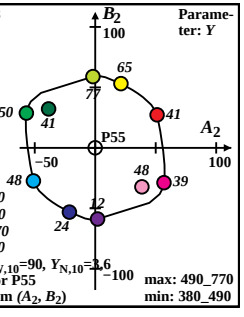

AEU91−2N

$XYZ_W$=87.71 , 90.0 , 86.38
$A_1 = 2{,}5\ (a_1 - a_{1,n})\ Y$
$B_1 = 2{,}5\ B_c\ (b_1 - b_{1,n})\ Y$
$a_1 = a_{20}\ [(x-x_c)/y]$
$b_1 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}000$
$n$ = P55
$C_{AB,1} = [A_1^2 + B_1^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_{W,10}$=90, $Y_{N,10}$=3,6
8 of maximum (m) $C_{AB}$ for P55
in chromatic value diagram ($A_1$, $B_1$)
max: 490_770
min: 380_490



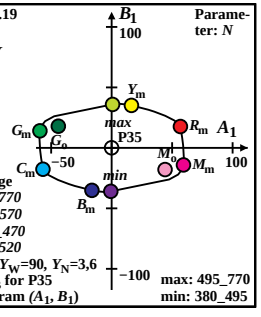

AEU90−3N

$XYZ_W$=87.71 , 90.0 , 86.38
$A_2 = 2{,}5\ (a_2 - a_{2,n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2,n})\ Y$
$a_2 = a_{20}\ [(x-x_c)/y]$
$b_2 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 0{,}900$
$n$ = P55
$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_{W,10}$=90, $Y_{N,10}$=3,6
8 of maximum (m) $C_{AB}$ for P55
in chromatic value diagram ($A_2$, $B_2$)
max: 490_770
min: 380_490



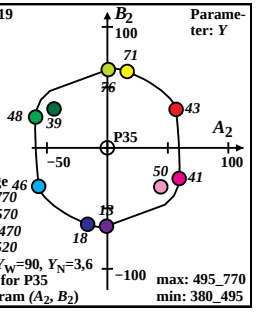

AEU90−4N

$XYZ_W$=93.3 , 89.99 , 47.19
$A_1 = 2{,}5\ (a_1 - a_{1,n})\ Y$
$B_1 = 2{,}5\ B_c\ (b_1 - b_{1,n})\ Y$
$a_1 = a_{20}\ [(x-x_c)/y]$
$b_1 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}000$
$n$ = P35
$C_{AB,1} = [A_1^2 + B_1^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P35
in chromatic value diagram ($A_1$, $B_1$)
max: 495_770
min: 380_495



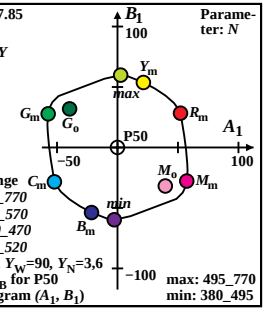

AEU91−3N

$XYZ_W$=93.3 , 89.99 , 47.19
$A_2 = 2{,}5\ (a_2 - a_{2,n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2,n})\ Y$
$a_2 = a_{20}\ [(x-x_c)/y]$
$b_2 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}800$
$n$ = P35
$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P35
in chromatic value diagram ($A_2$, $B_2$)
max: 495_770
min: 380_495



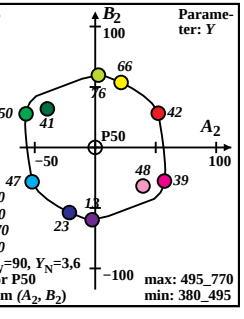

AEU91−4N

$XYZ_W$=88.31 , 90.0 , 77.85
$A_1 = 2{,}5\ (a_1 - a_{1,n})\ Y$
$B_1 = 2{,}5\ B_c\ (b_1 - b_{1,n})\ Y$
$a_1 = a_{20}\ [(x-x_c)/y]$
$b_1 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}000$
$n$ = P50
$C_{AB,1} = [A_1^2 + B_1^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P50
in chromatic value diagram ($A_1$, $B_1$)
max: 495_770
min: 380_495



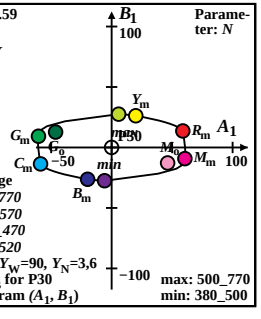

AEU90−5N

$XYZ_W$=88.31 , 90.0 , 77.85
$A_2 = 2{,}5\ (a_2 - a_{2,n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2,n})\ Y$
$a_2 = a_{20}\ [(x-x_c)/y]$
$b_2 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}000$
$n$ = P50
$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P50
in chromatic value diagram ($A_2$, $B_2$)
max: 495_770
min: 380_495



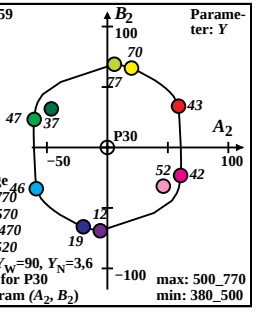

AEU90−6N

$XYZ_W$=97.23 , 90.0 , 35.59
$A_1 = 2{,}5\ (a_1 - a_{1,n})\ Y$
$B_1 = 2{,}5\ B_c\ (b_1 - b_{1,n})\ Y$
$a_1 = a_{20}\ [(x-x_c)/y]$
$b_1 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}000$
$n$ = P30
$C_{AB,1} = [A_1^2 + B_1^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P30
in chromatic value diagram ($A_1$, $B_1$)
max: 500_770
min: 380_500



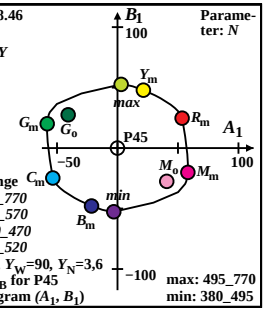

AEU91−5N

$XYZ_W$=97.23 , 90.0 , 35.59
$A_2 = 2{,}5\ (a_2 - a_{2,n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2,n})\ Y$
$a_2 = a_{20}\ [(x-x_c)/y]$
$b_2 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 2{,}500$
$n$ = P30
$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P30
in chromatic value diagram ($A_2$, $B_2$)
max: 500_770
min: 380_500



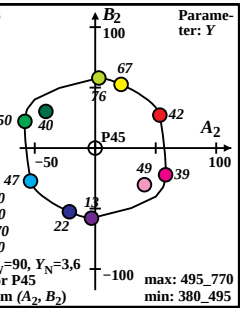

AEU91−6N

$XYZ_W$=89.28 , 90.0 , 68.46
$A_1 = 2{,}5\ (a_1 - a_{1,n})\ Y$
$B_1 = 2{,}5\ B_c\ (b_1 - b_{1,n})\ Y$
$a_1 = a_{20}\ [(x-x_c)/y]$
$b_1 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}000$
$n$ = P45
$C_{AB,1} = [A_1^2 + B_1^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P45
in chromatic value diagram ($A_1$, $B_1$)
max: 495_770
min: 380_495



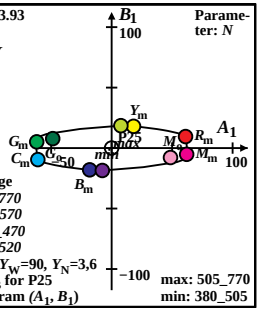

AEU90−7N

$XYZ_W$=89.28 , 90.0 , 68.46
$A_2 = 2{,}5\ (a_2 - a_{2,n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2,n})\ Y$
$a_2 = a_{20}\ [(x-x_c)/y]$
$b_2 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}100$
$n$ = P45
$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P45
in chromatic value diagram ($A_2$, $B_2$)
max: 495_770
min: 380_495



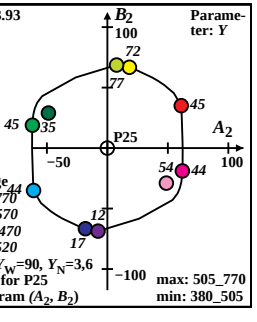

AEU90−8N

$XYZ_W$=103.66 , 90.0 , 23.93
$A_1 = 2{,}5\ (a_1 - a_{1,n})\ Y$
$B_1 = 2{,}5\ B_c\ (b_1 - b_{1,n})\ Y$
$a_1 = a_{20}\ [(x-x_c)/y]$
$b_1 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 1{,}000$
$n$ = P25
$C_{AB,1} = [A_1^2 + B_1^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P25
in chromatic value diagram ($A_1$, $B_1$)
max: 505_770
min: 380_505




AEU91−7N

$XYZ_W$=103.66 , 90.0 , 23.93
$A_2 = 2{,}5\ (a_2 - a_{2,n})\ Y$
$B_2 = 2{,}5\ B_c\ (b_2 - b_{2,n})\ Y$
$a_2 = a_{20}\ [(x-x_c)/y]$
$b_2 = b_{20}\ [z/y]$
$a_{20} = 1,\ b_{20} = -0{,}4$
$x_c = 0{,}110,\ B_c = 3{,}700$
$n$ = P25
$C_{AB,2} = [A_2^2 + B_2^2]^{1/2}$
Name and spectral range
$R_m$ 570_770 $Y_m$ 520_770
$G_m$ 470_570 $C_m$ 380_570
$B_m$ 380_520 $M_m$ 570_470
$G_o$ 520_570 $M_o$ 570_520
10 optimal colours (o), $Y_W$=90, $Y_N$=3,6
8 of maximum (m) $C_{AB}$ for P25
in chromatic value diagram ($A_2$, $B_2$)
max: 505_770
min: 380_505




AEU91−8N

TUB-test chart AEU9; Chromatic adaptation of the antichromatic LMS22-colour vision model
*Ostwald* optimal colours for eight illuminants P60, P55, P50, P45, P40, P35, P30, P25