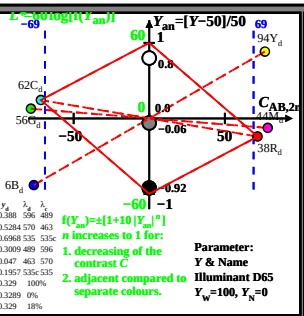
$XYZ_W$=95.04 , 100.0 , 108.89
$A_2$ = 2,5 $(a_2 - a_{2n})$ $Y$
$B_2$ = 2,5 $B_2$ $(b_2 - b_{2n})$ $Y$
$a_2 = a_{20}$ [ $(x - x_c)$ / $y$]
$b_2 = b_{20}$ [ $z$ / $y$]
$a_{20}$ = 1, $b_{20}$ = −0,4
$x_c$ = 0,110, $B_2$ = 0,800
$C_{AB2}=[A_2^2+B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) $C_{AB}$ in
linear colour space ($C_{AB,2n}$, $Y$)
Illumin. D65, $Y_W$=100, $Y_N$=0



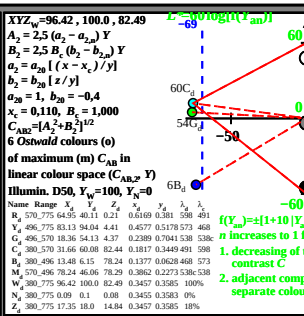

| Name | Range | $X_d$ | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $\lambda_d$ | $\lambda_c$ |
|---|---|---|---|---|---|---|---|---|
| $R_d$ | 567..775 | 59.7 | 38.03 | 0.26 | 0.6092 | 0.388 | 596 | 489 |
| $Y_d$ | 493..775 | 77.15 | 94.26 | 6.95 | 0.4325 | 0.5284 | 570 | 463 |
| $G_d$ | 493..567 | 17.64 | 56.43 | 6.9 | 0.2178 | 0.6968 | 535 | 535c |
| $C_d$ | 380..567 | 35.53 | 62.16 | 108.84 | 0.172 | 0.3009 | 489 | 596 |
| $B_d$ | 380..493 | 18.08 | 5.93 | 102.15 | 0.1433 | 0.047 | 463 | 570 |
| $M_d$ | 567..493 | 77.59 | 43.76 | 102.2 | 0.347 | 0.1957 | 535c | 535 |
| $W_d$ | 380..775 | 95.04 | 100.0 | 108.89 | 0.3127 | 0.329 | 100% | |
| $N_d$ | 380..775 | 0.09 | 0.1 | 0.1 | 0.3126 | 0.3289 | 0% | |
| $Z_d$ | 380..775 | 17.1 | 18.0 | 19.6 | 0.3127 | 0.329 | 18% | |

$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
$n$ increases to 1 for:
1. decreasing of the contrast $C$
2. adjacent compared to separate colours.

Parameter:
$Y$ & Name
Illuminant D65
$Y_W$=100, $Y_N$=0

BEP51−1A

$XYZ_W$=96.42 , 100.0 , 82.49
$A_2$ = 2,5 $(a_2 - a_{2n})$ $Y$
$B_2$ = 2,5 $B_2$ $(b_2 - b_{2n})$ $Y$
$a_2 = a_{20}$ [ $(x - x_c)$ / $y$]
$b_2 = b_{20}$ [ $z$ / $y$]
$a_{20}$ = 1, $b_{20}$ = −0,4
$x_c$ = 0,110, $B_2$ = 1,000
$C_{AB2}=[A_2^2+B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) $C_{AB}$ in
linear colour space ($C_{AB,2n}$, $Y$)
Illumin. D50, $Y_W$=100, $Y_N$=0



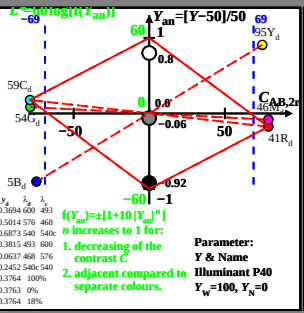

| Name | Range | $X_d$ | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $\lambda_d$ | $\lambda_c$ |
|---|---|---|---|---|---|---|---|---|
| $R_d$ | 570..775 | 64.95 | 40.11 | 0.21 | 0.6169 | 0.381 | 598 | 491 |
| $Y_d$ | 496..775 | 83.13 | 94.04 | 4.41 | 0.4577 | 0.5178 | 573 | 468 |
| $G_d$ | 496..570 | 18.36 | 54.13 | 4.37 | 0.2389 | 0.7041 | 538 | 538c |
| $C_d$ | 380..570 | 31.66 | 60.68 | 82.44 | 0.1817 | 0.3449 | 491 | 598 |
| $B_d$ | 380..496 | 13.48 | 6.15 | 78.24 | 0.1377 | 0.0628 | 468 | 573 |
| $M_d$ | 570..496 | 78.24 | 46.06 | 78.29 | 0.3862 | 0.2273 | 538c | 538 |
| $W_d$ | 380..775 | 96.42 | 100.0 | 82.49 | 0.3457 | 0.3585 | 100% | |
| $N_d$ | 380..775 | 0.09 | 0.1 | 0.08 | 0.3455 | 0.3583 | 0% | |
| $Z_d$ | 380..775 | 17.35 | 18.0 | 14.84 | 0.3457 | 0.3585 | 18% | |

$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
$n$ increases to 1 for:
1. decreasing of the contrast $C$
2. adjacent compared to separate colours.

Parameter:
$Y$ & Name
Illuminant D50
$Y_W$=100, $Y_N$=0

BEP51−2A

$XYZ_W$=100.93 , 100.0 , 64.68
$A_2$ = 2,5 $(a_2 - a_{2n})$ $Y$
$B_2$ = 2,5 $B_2$ $(b_2 - b_{2n})$ $Y$
$a_2 = a_{20}$ [ $(x - x_c)$ / $y$]
$b_2 = b_{20}$ [ $z$ / $y$]
$a_{20}$ = 1, $b_{20}$ = −0,4
$x_c$ = 0,110, $B_2$ = 1,300
$C_{AB2}=[A_2^2+B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) $C_{AB}$ in
linear colour space ($C_{AB,2n}$, $Y$)
Illumin. P40, $Y_W$=100, $Y_N$=0



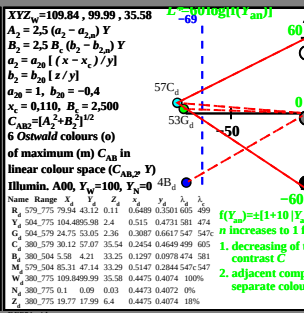

| Name | Range | $X_d$ | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $\lambda_d$ | $\lambda_c$ |
|---|---|---|---|---|---|---|---|---|
| $R_d$ | 573..775 | 70.25 | 41.25 | 0.17 | 0.629 | 0.3694 | 600 | 493 |
| $Y_d$ | 498..775 | 90.6 | 95.35 | 4.18 | 0.4765 | 0.5014 | 576 | 468 |
| $G_d$ | 498..573 | 20.55 | 54.29 | 4.13 | 0.2602 | 0.6873 | 540 | 540c |
| $C_d$ | 380..573 | 30.88 | 58.94 | 64.64 | 0.1999 | 0.3815 | 493 | 600 |
| $B_d$ | 380..498 | 10.52 | 4.84 | 60.63 | 0.1384 | 0.0637 | 468 | 576 |
| $M_d$ | 573..498 | 80.57 | 45.9 | 60.68 | 0.4305 | 0.2452 | 540c | 540 |
| $W_d$ | 380..775 | 100.93 | 100.0 | 64.68 | 0.3799 | 0.3764 | 100% | |
| $N_d$ | 380..775 | 0.1 | 0.1 | 0.06 | 0.3798 | 0.3763 | 0% | |
| $Z_d$ | 380..775 | 18.16 | 18.0 | 11.64 | 0.3799 | 0.3764 | 18% | |

$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
$n$ increases to 1 for:
1. decreasing of the contrast $C$
2. adjacent compared to separate colours.

Parameter:
$Y$ & Name
Illuminant P40
$Y_W$=100, $Y_N$=0

BEP51−3A

$XYZ_W$=109.84 , 99.99 , 35.58
$A_2$ = 2,5 $(a_2 - a_{2n})$ $Y$
$B_2$ = 2,5 $B_2$ $(b_2 - b_{2n})$ $Y$
$a_2 = a_{20}$ [ $(x - x_c)$ / $y$]
$b_2 = b_{20}$ [ $z$ / $y$]
$a_{20}$ = 1, $b_{20}$ = −0,4
$x_c$ = 0,110, $B_2$ = 2,500
$C_{AB2}=[A_2^2+B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) $C_{AB}$ in
linear colour space ($C_{AB,2n}$, $Y$)
Illumin. A00, $Y_W$=100, $Y_N$=0



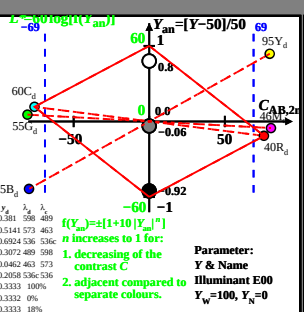

| Name | Range | $X_d$ | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $\lambda_d$ | $\lambda_c$ |
|---|---|---|---|---|---|---|---|---|
| $R_d$ | 579..775 | 79.94 | 43.12 | 0.11 | 0.6489 | 0.3501 | 605 | 499 |
| $Y_d$ | 504..775 | 104.48 | 95.98 | 2.4 | 0.515 | 0.4731 | 581 | 474 |
| $G_d$ | 504..579 | 24.75 | 53.05 | 2.36 | 0.3087 | 0.6617 | 547 | 547c |
| $C_d$ | 380..579 | 30.12 | 57.07 | 35.54 | 0.2454 | 0.4649 | 499 | 605 |
| $B_d$ | 380..504 | 5.58 | 4.21 | 33.25 | 0.1297 | 0.0978 | 474 | 581 |
| $M_d$ | 579..504 | 85.31 | 47.14 | 33.29 | 0.5147 | 0.2844 | 547c | 547 |
| $W_d$ | 380..775 | 109.84 | 99.99 | 35.58 | 0.4475 | 0.4074 | 100% | |
| $N_d$ | 380..775 | 0.1 | 0.09 | 0.03 | 0.4473 | 0.4072 | 0% | |
| $Z_d$ | 380..775 | 19.77 | 17.99 | 6.4 | 0.4475 | 0.4074 | 18% | |

$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
$n$ increases to 1 for:
1. decreasing of the contrast $C$
2. adjacent compared to separate colours.

Parameter:
$Y$ & Name
Illuminant A00
$Y_W$=100, $Y_N$=0

BEP51−4A

$XYZ_W$=100.0 , 100.0 , 100.0
$A_2$ = 2,5 $(a_2 - a_{2n})$ $Y$
$B_2$ = 2,5 $B_2$ $(b_2 - b_{2n})$ $Y$
$a_2 = a_{20}$ [ $(x - x_c)$ / $y$]
$b_2 = b_{20}$ [ $z$ / $y$]
$a_{20}$ = 1, $b_{20}$ = −0,4
$x_c$ = 0,110, $B_2$ = 0,900
$C_{AB2}=[A_2^2+B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) $C_{AB}$ in
linear colour space ($C_{AB,2n}$, $Y$)
Illumin. E00, $Y_W$=100, $Y_N$=0



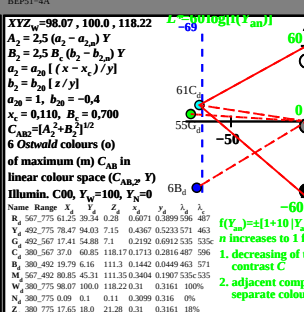

| Name | Range | $X_d$ | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $\lambda_d$ | $\lambda_c$ |
|---|---|---|---|---|---|---|---|---|
| $R_d$ | 570..775 | 65.52 | 40.49 | 0.24 | 0.6165 | 0.381 | 598 | 489 |
| $Y_d$ | 494..775 | 83.39 | 94.82 | 6.19 | 0.4522 | 0.5141 | 573 | 463 |
| $G_d$ | 494..570 | 18.07 | 54.52 | 6.14 | 0.2295 | 0.6924 | 536 | 536c |
| $C_d$ | 380..570 | 34.67 | 59.7 | 99.95 | 0.1784 | 0.3072 | 489 | 598 |
| $B_d$ | 380..494 | 16.8 | 5.37 | 94.0 | 0.1446 | 0.0462 | 463 | 573 |
| $M_d$ | 570..494 | 82.12 | 45.67 | 94.05 | 0.3701 | 0.2058 | 536c | 536 |
| $W_d$ | 380..775 | 100.0 | 100.0 | 100.0 | 0.3333 | 0.3333 | 100% | |
| $N_d$ | 380..775 | 0.1 | 0.1 | 0.1 | 0.3332 | 0.3332 | 0% | |
| $Z_d$ | 380..775 | 18.0 | 18.0 | 18.0 | 0.3333 | 0.3333 | 18% | |

$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
$n$ increases to 1 for:
1. decreasing of the contrast $C$
2. adjacent compared to separate colours.

Parameter:
$Y$ & Name
Illuminant E00
$Y_W$=100, $Y_N$=0

BEP51−5A

$XYZ_W$=98.07 , 100.0 , 118.22
$A_2$ = 2,5 $(a_2 - a_{2n})$ $Y$
$B_2$ = 2,5 $B_2$ $(b_2 - b_{2n})$ $Y$
$a_2 = a_{20}$ [ $(x - x_c)$ / $y$]
$b_2 = b_{20}$ [ $z$ / $y$]
$a_{20}$ = 1, $b_{20}$ = −0,4
$x_c$ = 0,110, $B_2$ = 0,700
$C_{AB2}=[A_2^2+B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) $C_{AB}$ in
linear colour space ($C_{AB,2n}$, $Y$)
Illumin. C00, $Y_W$=100, $Y_N$=0



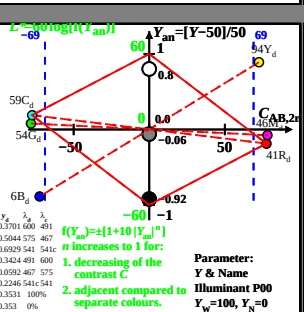

| Name | Range | $X_d$ | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $\lambda_d$ | $\lambda_c$ |
|---|---|---|---|---|---|---|---|---|
| $R_d$ | 567..775 | 61.25 | 39.34 | 0.28 | 0.6071 | 0.3899 | 596 | 487 |
| $Y_d$ | 492..775 | 78.47 | 94.03 | 7.15 | 0.4367 | 0.5233 | 571 | 463 |
| $G_d$ | 492..567 | 17.41 | 54.88 | 7.1 | 0.2192 | 0.6912 | 535 | 535c |
| $C_d$ | 380..567 | 37.0 | 60.85 | 118.17 | 0.1713 | 0.2816 | 487 | 596 |
| $B_d$ | 380..492 | 19.79 | 6.16 | 111.3 | 0.1442 | 0.0449 | 463 | 571 |
| $M_d$ | 567..492 | 80.85 | 45.31 | 111.35 | 0.3404 | 0.1907 | 535c | 535 |
| $W_d$ | 380..775 | 98.07 | 100.0 | 118.22 | 0.31 | 0.3161 | 100% | |
| $N_d$ | 380..775 | 0.09 | 0.1 | 0.11 | 0.3099 | 0.316 | 0% | |
| $Z_d$ | 380..775 | 17.65 | 18.0 | 21.28 | 0.31 | 0.3161 | 18% | |

$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
$n$ increases to 1 for:
1. decreasing of the contrast $C$
2. adjacent compared to separate colours.

Parameter:
$Y$ & Name
Illuminant C00
$Y_W$=100, $Y_N$=0

BEP51−6A

$XYZ_W$=102.06 , 100.0 , 81.06
$A_2$ = 2,5 $(a_2 - a_{2n})$ $Y$
$B_2$ = 2,5 $B_2$ $(b_2 - b_{2n})$ $Y$
$a_2 = a_{20}$ [ $(x - x_c)$ / $y$]
$b_2 = b_{20}$ [ $z$ / $y$]
$a_{20}$ = 1, $b_{20}$ = −0,4
$x_c$ = 0,110, $B_2$ = 1,000
$C_{AB2}=[A_2^2+B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) $C_{AB}$ in
linear colour space ($C_{AB,2n}$, $Y$)
Illumin. P00, $Y_W$=100, $Y_N$=0



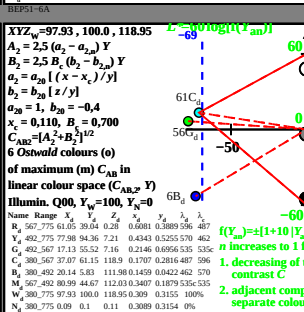

| Name | Range | $X_d$ | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $\lambda_d$ | $\lambda_c$ |
|---|---|---|---|---|---|---|---|---|
| $R_d$ | 572..775 | 69.05 | 40.7 | 0.2 | 0.6279 | 0.3701 | 600 | 491 |
| $Y_d$ | 496..775 | 88.74 | 94.48 | 4.06 | 0.4738 | 0.5044 | 575 | 467 |
| $G_d$ | 496..572 | 19.89 | 53.97 | 4.01 | 0.2554 | 0.6929 | 541 | 541c |
| $C_d$ | 380..572 | 33.21 | 59.49 | 81.01 | 0.1912 | 0.3424 | 491 | 600 |
| $B_d$ | 380..496 | 13.52 | 5.71 | 77.15 | 0.1402 | 0.0592 | 467 | 575 |
| $M_d$ | 572..496 | 82.37 | 46.22 | 77.2 | 0.4002 | 0.2246 | 541c | 541 |
| $W_d$ | 380..775 | 102.06 | 100.0 | 81.06 | 0.3604 | 0.3531 | 100% | |
| $N_d$ | 380..775 | 0.1 | 0.1 | 0.08 | 0.3603 | 0.353 | 0% | |
| $Z_d$ | 380..775 | 18.37 | 18.0 | 14.59 | 0.3604 | 0.3531 | 18% | |

$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
$n$ increases to 1 for:
1. decreasing of the contrast $C$
2. adjacent compared to separate colours.

Parameter:
$Y$ & Name
Illuminant P00
$Y_W$=100, $Y_N$=0

BEP51−7R

$XYZ_W$=97.93 , 100.0 , 118.95
$A_2$ = 2,5 $(a_2 - a_{2n})$ $Y$
$B_2$ = 2,5 $B_2$ $(b_2 - b_{2n})$ $Y$
$a_2 = a_{20}$ [ $(x - x_c)$ / $y$]
$b_2 = b_{20}$ [ $z$ / $y$]
$a_{20}$ = 1, $b_{20}$ = −0,4
$x_c$ = 0,110, $B_2$ = 0,700
$C_{AB2}=[A_2^2+B_2^2]^{1/2}$
6 *Ostwald* colours (o)
of maximum (m) $C_{AB}$ in
linear colour space ($C_{AB,2n}$, $Y$)
Illumin. Q00, $Y_W$=100, $Y_N$=0




| Name | Range | $X_d$ | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $\lambda_d$ | $\lambda_c$ |
|---|---|---|---|---|---|---|---|---|
| $R_d$ | 567..775 | 61.05 | 39.04 | 0.28 | 0.6081 | 0.3889 | 596 | 487 |
| $Y_d$ | 492..775 | 77.98 | 94.36 | 7.21 | 0.4343 | 0.5255 | 570 | 462 |
| $G_d$ | 492..567 | 17.13 | 55.52 | 7.16 | 0.2146 | 0.6956 | 535 | 535c |
| $C_d$ | 380..567 | 37.07 | 61.15 | 118.5 | 0.1707 | 0.2816 | 487 | 596 |
| $B_d$ | 380..492 | 20.14 | 5.83 | 111.98 | 0.1459 | 0.0422 | 462 | 570 |
| $M_d$ | 567..492 | 80.99 | 44.67 | 112.03 | 0.3407 | 0.1879 | 535c | 535 |
| $W_d$ | 380..775 | 97.93 | 100.0 | 118.95 | 0.309 | 0.3155 | 100% | |
| $N_d$ | 380..775 | 0.09 | 0.1 | 0.11 | 0.3089 | 0.3154 | 0% | |
| $Z_d$ | 380..775 | 17.62 | 18.0 | 21.41 | 0.309 | 0.3155 | 18% | |

$f(Y_{an})=\pm[1+10\,|Y_{an}|^n]$
$n$ increases to 1 for:
1. decreasing of the contrast $C$
2. adjacent compared to separate colours.

Parameter:
$Y$ & Name
Illuminant Q00
$Y_W$=100, $Y_N$=0

BEP51−8A