

$XYZ_{W,10} = 116.54, 99.99, 26.13$

$A_{1,10} = 2.5 (a_{1,10} - a_{1,n,10}) Y_{10}$

$B_{1,10} = 2.5 B_c (b_{1,10} - b_{1,n,10}) Y_{10}$

$a_{1,10} = a_{20} [(x_{10} - x_c) / y_{10}]$

$b_{1,10} = b_{20} [z_{10} / y_{10}]$

$a_{20} = 1, b_{20} = -0.4$

$x_c = 0.110, B_c = 1.000$

$C_{AB,10} = [A_{1,10}^2 + B_{1,10}^2]^{1/2}$

6 Ostwald colours (o)

of maximum (m)  $C_{AB,10}$  in

chromatic value diagram ( $A_{10}, B_{10}$ )

Illumin. P25,  $Y_{W,10} = 100, Y_{N,10} = 4$

| Name  | Range   | $X_{d,10}$ | $Y_{d,10}$ | $Z_{d,10}$ | $x_{d,10}$ | $y_{d,10}$ | $\lambda_d$ | $\lambda_c$ |
|-------|---------|------------|------------|------------|------------|------------|-------------|-------------|
| $R_d$ | 578_775 | 87.32      | 48.86      | 1.07       | 0.6362     | 0.3559     | 605         | 495         |
| $Y_d$ | 500_775 | 112.78     | 94.86      | 2.25       | 0.5373     | 0.4519     | 580         | 473         |
| $G_d$ | 500_578 | 30.23      | 50.1       | 2.25       | 0.366      | 0.6066     | 547         | 547c        |
| $C_d$ | 380_578 | 33.99      | 55.24      | 26.13      | 0.2946     | 0.4787     | 495         | 605         |
| $B_d$ | 380_500 | 8.54       | 9.23       | 24.95      | 0.1999     | 0.2161     | 473         | 580         |
| $M_d$ | 578_500 | 91.09      | 54.0       | 24.95      | 0.5356     | 0.3175     | 547c        | 547         |
| $W_d$ | 380_775 | 116.54     | 99.99      | 26.13      | 0.4802     | 0.412      | 100%        |             |
| $N_d$ | 380_775 | 4.66       | 3.99       | 1.04       | 0.4802     | 0.412      | 4%          |             |
| $Z_d$ | 380_775 | 20.97      | 17.99      | 4.7        | 0.4802     | 0.412      | 18%         |             |

Parameter:

$Y_{10}$  & Name

Illuminant P25

$Y_{W,10} = 100, Y_{N,10} = 4$

