

$XYZ_{W,10} = 102.37, 99.99, 81.25$

$A_{2,10} = 2,5 (a_{2,10} - a_{2,n,10}) Y_{10}$

$B_{2,10} = 2,5 B_c (b_{2,10} - b_{2,n,10}) Y_{10}$

$a_{2,10} = a_{20} [(x_{10} - x_c) / y_{10}]$

$b_{2,10} = b_{20} [z_{10} / y_{10}]$

$a_{20} = 1, b_{20} = -0,4$

$x_c = 0,110, B_c = 1,000$

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

6 Ostwald-Farben (o)

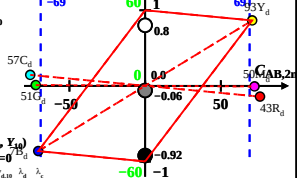
von maximalem (m)  $C_{AB,10}$

linearen Farbenraum ( $C_{AB,2,10} \frac{Y_{10}}{Y_d}$ )

Lichtart P00,  $Y_{W,10} = 100, Y_{N,10} = 0$

| Name           | Bereich | $X_{d,10}$ | $Y_{d,10}$ | $Z_{d,10}$ | $x_{d,10}$ | $y_{d,10}$ | $\lambda_d$ | $\lambda_c$ |
|----------------|---------|------------|------------|------------|------------|------------|-------------|-------------|
| R <sub>d</sub> | 567_775 | 69.98      | 42.93      | 0.16       | 0.6189     | 0.3796     | 597         | 484         |
| Y <sub>d</sub> | 489_775 | 88.89      | 93.25      | 5.23       | 0.4743     | 0.4976     | 571         | 461         |
| G <sub>d</sub> | 489_567 | 19.1       | 50.52      | 5.23       | 0.2551     | 0.6748     | 533         | 533c        |
| C <sub>d</sub> | 380_567 | 32.59      | 57.26      | 81.25      | 0.1904     | 0.3346     | 484         | 597         |
| B <sub>d</sub> | 380_489 | 13.68      | 6.94       | 76.17      | 0.1414     | 0.0717     | 461         | 571         |
| M <sub>d</sub> | 567_489 | 83.47      | 49.67      | 76.17      | 0.3987     | 0.2373     | 533c        | 533         |
| W <sub>d</sub> | 380_775 | 102.3799   | 99.99      | 81.25      | 0.3609     | 0.3525     | 100%        |             |
| N <sub>d</sub> | 380_775 | 0.1        | 0.09       | 0.08       | 0.3608     | 0.3524     | 0%          |             |
| Z <sub>d</sub> | 380_775 | 18.42      | 18.0       | 14.62      | 0.3609     | 0.3525     | 18%         |             |

$L^*_{10} = 60 \log[f(Y_{10,an})]$   $Y_{10,an} = [Y_{10} - 50] / 50$



$f(Y_{10,an}) = \pm [1 + 10 |Y_{10,an}|^n]$   
 $n$  nähert sich 1 für:  
 1. abnehmendem Kontrast  $C$   
 2. aneinandergrenzende / separate Farben.

Parameter:  
 $Y_{10}$  & Name  
 Lichtart P00  
 $Y_{W,10} = 100, Y_{N,10} = 0$