

$XYZ_{W,10} = 99.8, 100.0, 75.8$

$A_{2,10} = 2.5 (a_{2,10} - a_{2,n,10}) Y_{10}$

$B_{2,10} = 2.5 B_c (b_{2,10} - b_{2,n,10}) Y_{10}$

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

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

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

$x_c = 0.110, B_c = 1.100$

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

6 Ostwald-Farben (o)

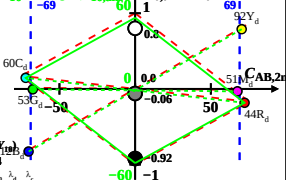
von maximalem (m)  $C_{AB,10}$  im

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

Lichtart P45,  $Y_{W,10} = 100, Y_{N,10} = 4$

| 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 | 68.89      | 43.82      | 3.1        | 0.5947     | 0.3783     | 597         | 485         |
| Y <sub>d</sub> | 490_775 | 87.82      | 92.45      | 6.47       | 0.4702     | 0.495      | 571         | 465         |
| G <sub>d</sub> | 490_567 | 23.02      | 52.73      | 6.47       | 0.2799     | 0.6412     | 536         | 536c        |
| C <sub>d</sub> | 380_567 | 35.0       | 60.27      | 75.81      | 0.2046     | 0.3522     | 485         | 597         |
| B <sub>d</sub> | 380_490 | 16.07      | 11.64      | 72.43      | 0.1605     | 0.1162     | 465         | 571         |
| M <sub>d</sub> | 567_490 | 80.87      | 51.37      | 72.43      | 0.3951     | 0.2509     | 536c        | 536         |
| W <sub>d</sub> | 380_775 | 99.8       | 100.0      | 75.8       | 0.3621     | 0.3628     | 100%        |             |
| N <sub>d</sub> | 380_775 | 3.99       | 4.0        | 3.03       | 0.3621     | 0.3628     | 4%          |             |
| Z <sub>d</sub> | 380_775 | 17.96      | 18.0       | 13.64      | 0.3621     | 0.3628     | 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 P45

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