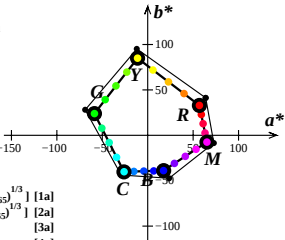


# **Offs-Daten $rgb^*$ , $XYZ_{xy}$ und $LabC^*h_{ab}$ im CIELAB-Farbraum**

Normfarbwerte von Schwarz und Weiß:  $Y_{Nn}=2,2$ ,  $Y_{Wn}=79,9$ ,  $Y_{Za}=18$ .

**$LabC^*h_{ab}$ -Daten**

|       | $rgb_d^*$ | $L_d^*$ | $a_d^*$ | $b_d^*$ | $C_{ab,d}^*$ | $h_{ab,d}$ |
|-------|-----------|---------|---------|---------|--------------|------------|
| $R_d$ | 1 0 0     | 47      | 56      | 32      | 65           | 30         |
| $Y_d$ | 1 1 0     | 84      | -11     | 84      | 85           | 97         |
| $G_d$ | 0 1 0     | 51      | -58     | 23      | 63           | 157        |
| $C_d$ | 0 1 1     | 57      | -26     | -40     | 47           | 237        |
| $B_d$ | 0 0 1     | 29      | 17      | -38     | 42           | 294        |
| $M_d$ | 1 0 1     | 48      | 65      | -7      | 65           | 353        |
| $N_d$ | 0 0 0     | 16      | 0       | 0       | 0            | 19         |
| $W_d$ | 1 1 1     | 91      | 0       | 0       | 0            | 0          |



$$a^* = 500 \left[ \left( \frac{X}{X_{D65}} \right)^{1/3} - \left( \frac{Y}{Y_{D65}} \right)^{1/3} \right] \quad [1a]$$

$$b^* = 200 \left[ \left( \frac{Y}{Y_{D65}} \right)^{1/3} - \left( \frac{Z}{Z_{D65}} \right)^{1/3} \right] \quad [2a]$$

$$C_{ab}^* = \left[ a^{*2} + b^{*2} \right]^{0,5} \quad [3a]$$

$$h_{ab} = \text{atan} \left[ b^* / a^* \right] \quad [4a]$$