

**Farbmimetrische "Norm-Daten": Fernseh-Lichtfarben-System TLS00 für Helligkeit  $L^*=00$  von Schwarz für Lichtart D65**

**System TLS00**

**sRGB-System**

**D65-Reflexion:**

$Y_N = 0.0$

$L^*_N = 0.01$

| Farbe | $r=ol\cdot v_1$ | $g=ol\cdot v_2$ | $b=ol\cdot v_3$ | $L^*$ | $a^*$  | $b^*$  | $C^*_{ab}$ | $h_{ab}$ | $X=XYZ_1$ | $Y=XYZ_2$ | $Z=XYZ_3$ | $x$    | $y$    | $Y/88.59$ |
|-------|-----------------|-----------------|-----------------|-------|--------|--------|------------|----------|-----------|-----------|-----------|--------|--------|-----------|
| O (R) | 1.0             | 0.0             | 0.0             | 50.5  | 76.92  | 64.55  | 100.42     | 40       | 36.54     | 18.84     | 1.71      | 0.64   | 0.33   | 0.2127    |
| Y     | 1.0             | 1.0             | 0.0             | 92.66 | -20.69 | 90.75  | 93.08      | 103      | 68.21     | 82.19     | 12.27     | 0.4193 | 0.5053 | 0.9278    |
| L (G) | 0.0             | 1.0             | 0.0             | 83.63 | -82.75 | 79.9   | 115.04     | 136      | 31.68     | 63.36     | 10.56     | 0.3    | 0.6    | 0.7152    |
| C     | 0.0             | 1.0             | 1.0             | 86.88 | -46.16 | -13.55 | 48.12      | 196      | 47.67     | 69.76     | 94.74     | 0.2247 | 0.3288 | 0.7874    |
| V (B) | 0.0             | 0.0             | 1.0             | 25.72 | 31.45  | -44.29 | 54.33      | 305      | 7.17      | 4.65      | 21.37     | 0.216  | 0.1402 | 0.0525    |
| M     | 1.0             | 0.0             | 1.0             | 57.3  | 94.35  | -58.41 | 110.97     | 328      | 52.52     | 25.23     | 85.89     | 0.3209 | 0.1542 | 0.2848    |
| N     | 0.0             | 0.0             | 0.0             | 0.01  | 0.0    | 0.0    | 0.01       | 0        | 0.0       | 0.0       | 0.0       | 0.3127 | 0.329  | 0.0       |
| W     | 1.0             | 1.0             | 1.0             | 95.41 | 0.0    | 0.0    | 0.01       | 0        | 84.2      | 88.59     | 96.46     | 0.3127 | 0.329  | 1.0       |
| N0    | 0.0             | 0.0             | 0.0             | 0.01  | 0.0    | 0.0    | 0.01       | 0        | 0.0       | 0.0       | 0.0       | 0.3127 | 0.329  | 0.0       |
| W1    | 1.0             | 1.0             | 1.0             | 95.41 | 0.0    | 0.0    | 0.01       | 0        | 84.2      | 88.59     | 96.46     | 0.3127 | 0.329  | 1.0       |

**Farbmimetrische "Adaptierte Daten (a)": Fernseh-Lichtfarben-System TLS00a für Helligkeit  $L^*=00a$  von Schwarz für Lichtart D65**

**System TLS00a**

**sRGB-System**

**D65-Reflexion:**

$Y_N = 0.0$

$L^*_N = 0.01$

| Farbe | $r=ol\cdot v_1$ | $g=ol\cdot v_2$ | $b=ol\cdot v_3$ | $L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h_{ab,a}$ | $X_a=XYZ_{1a}$ | $Y_a=XYZ_{2a}$ | $Z_a=XYZ_{3a}$ | $x_a$  | $y_a$  | $Y_a/88.59$ |
|-------|-----------------|-----------------|-----------------|---------|---------|---------|--------------|------------|----------------|----------------|----------------|--------|--------|-------------|
| O (R) | 1.0             | 0.0             | 0.0             | 50.5    | 76.92   | 64.55   | 100.42       | 40         | 36.54          | 18.84          | 1.71           | 0.64   | 0.33   | 0.2127      |
| Y     | 1.0             | 1.0             | 0.0             | 92.66   | -20.69  | 90.75   | 93.08        | 103        | 68.21          | 82.19          | 12.27          | 0.4193 | 0.5053 | 0.9278      |
| L (G) | 0.0             | 1.0             | 0.0             | 83.63   | -82.75  | 79.9    | 115.04       | 136        | 31.68          | 63.36          | 10.56          | 0.3    | 0.6    | 0.7152      |
| C     | 0.0             | 1.0             | 1.0             | 86.88   | -46.16  | -13.55  | 48.12        | 196        | 47.67          | 69.76          | 94.74          | 0.2247 | 0.3288 | 0.7874      |
| V (B) | 0.0             | 0.0             | 1.0             | 25.72   | 31.45   | -44.29  | 54.33        | 305        | 7.17           | 4.65           | 21.37          | 0.216  | 0.1402 | 0.0525      |
| M     | 1.0             | 0.0             | 1.0             | 57.3    | 94.35   | -58.41  | 110.97       | 328        | 52.52          | 25.23          | 85.89          | 0.3209 | 0.1542 | 0.2848      |
| N     | 0.0             | 0.0             | 0.0             | 0.01    | 0.0     | 0.0     | 0.01         | 0          | 0.0            | 0.0            | 0.0            | 0.3127 | 0.329  | 0.0         |
| W     | 1.0             | 1.0             | 1.0             | 95.41   | 0.0     | 0.0     | 0.01         | 0          | 84.2           | 88.59          | 96.46          | 0.3127 | 0.329  | 1.0         |
| N0    | 0.0             | 0.0             | 0.0             | 0.01    | 0.0     | 0.0     | 0.01         | 0          | 0.0            | 0.0            | 0.0            | 0.3127 | 0.329  | 0.0         |
| W1    | 1.0             | 1.0             | 1.0             | 95.41   | 0.0     | 0.0     | 0.01         | 0          | 84.2           | 88.59          | 96.46          | 0.3127 | 0.329  | 1.0         |

**Farbmimetrische "Adaptierte Daten (a0)": Fernseh-Lichtfarben-System TLS00a0 für Helligkeit  $L^*=00a0$  von Schwarz für Lichtart D65**

**System TLS00a0**

**sRGB-System**

**D65-Reflexion:**

$Y_N = 0.0$

$L^*_N = 0.0$

| Farbe | $r=ol\cdot v_1$ | $g=ol\cdot v_2$ | $b=ol\cdot v_3$ | $L^*_{a0}$ | $a^*_{a0}$ | $b^*_{a0}$ | $C^*_{ab,a0}$ | $h_{ab,a0}$ | $X_{a0}=XYZ_{1a0}$ | $Y_{a0}=XYZ_{2a0}$ | $Z_{a0}=XYZ_{3a0}$ | $x_{a0}$ | $y_{a0}$ | $Y_{a0}/88.59$ |
|-------|-----------------|-----------------|-----------------|------------|------------|------------|---------------|-------------|--------------------|--------------------|--------------------|----------|----------|----------------|
| O (R) | 1.0             | 0.0             | 0.0             | 50.5       | 76.92      | 64.55      | 100.42        | 40          | 36.54(=36.53+0.0)  | 18.84(=18.84+0.0)  | 1.71(=1.71+0.0)    | 0.64     | 0.33     | 0.2127         |
| Y     | 1.0             | 1.0             | 0.0             | 92.66      | -20.69     | 90.75      | 93.08         | 103         | 68.21(=68.21+0.0)  | 82.19(=82.19+0.0)  | 12.27(=12.27+0.0)  | 0.4193   | 0.5053   | 0.9278         |
| L (G) | 0.0             | 1.0             | 0.0             | 83.63      | -82.75     | 79.9       | 115.04        | 136         | 31.68(=31.68+0.0)  | 63.36(=63.36+0.0)  | 10.56(=10.55+0.0)  | 0.3      | 0.6      | 0.7152         |
| C     | 0.0             | 1.0             | 1.0             | 86.88      | -46.16     | -13.55     | 48.12         | 196         | 47.67(=47.67+0.0)  | 69.76(=69.76+0.0)  | 94.74(=94.74+0.0)  | 0.2247   | 0.3288   | 0.7874         |
| V (B) | 0.0             | 0.0             | 1.0             | 25.72      | 31.45      | -44.29     | 54.33         | 305         | 7.17(=7.17+0.0)    | 4.65(=4.65+0.0)    | 21.37(=21.37+0.0)  | 0.216    | 0.1402   | 0.0525         |
| M     | 1.0             | 0.0             | 1.0             | 57.3       | 94.35      | -58.41     | 110.97        | 328         | 52.52(=52.52+0.0)  | 25.23(=25.23+0.0)  | 85.89(=85.89+0.0)  | 0.3209   | 0.1542   | 0.2848         |
| N     | 0.0             | 0.0             | 0.0             | 0.01       | 0.0        | 0.0        | 0.01          | 0           | 0.0(=0.0+0.0)      | 0.0(=0.0+0.0)      | 0.0(=0.0+0.0)      | 0.3118   | 0.3281   | 0.0            |
| W     | 1.0             | 1.0             | 1.0             | 95.41      | 0.0        | 0.0        | 0.01          | 0           | 84.2(=84.2+0.0)    | 88.59(=88.59+0.0)  | 96.46(=96.46+0.0)  | 0.3127   | 0.329    | 1.0            |
| N0    | 0.0             | 0.0             | 0.0             | 0.01       | 0.0        | 0.0        | 0.01          | 0           | 0.0(=0.0+0.0)      | 0.0(=0.0+0.0)      | 0.0(=0.0+0.0)      | 0.3118   | 0.3281   | 0.0            |
| W1    | 1.0             | 1.0             | 1.0             | 95.41      | 0.0        | 0.0        | 0.01          | 0           | 84.2(=84.2+0.0)    | 88.59(=88.59+0.0)  | 96.46(=96.46+0.0)  | 0.3127   | 0.329    | 1.0            |