

**Farbmetrische "Norm-Daten": Fernseh-Lichtfarben-System TLS00 für Helligkeit  $L^*=00$  von Schwarz und für CIE-Normlichtart D65**

| System TLS00   | Farbe | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $x_d$ | $y_d$ | $z_d$ | $x_d$  | $y_d$  | $y_d/88.59$ |
|----------------|-------|-------|-------|-------|---------|--------------|------------|---------|---------|-------|-------|-------|--------|--------|-------------|
| WCGa           | $R_d$ | 1.0   | 0.0   | 0.0   | 55.35   | 147.67       | 40         | 112.69  | 95.43   | 56.43 | 23.27 | 0.0   | 0.708  | 0.292  | 0.2626      |
|                | $Y_d$ | 1.0   | 1.0   | 0.0   | 93.16   | 133.13       | 99         | -20.63  | 131.52  | 69.24 | 83.34 | 2.48  | 0.4465 | 0.5375 | 0.9406      |
|                | $C_d$ | 0.0   | 1.0   | 0.0   | 81.88   | 199.89       | 146        | -165.52 | 112.06  | 12.81 | 60.07 | 2.48  | 0.17   | 0.7971 | 0.678       |
| D65-Reflexion: | $C_d$ | 0.0   | 1.0   | 1.0   | 85.16   | 105.74       | 190        | -104.25 | -17.67  | 27.77 | 66.32 | 96.48 | 0.1457 | 0.348  | 0.7485      |
|                | $B_d$ | 0.0   | 0.0   | 1.0   | 27.44   | 142.11       | 306        | 82.74   | -115.53 | 14.96 | 5.25  | 94.0  | 0.131  | 0.046  | 0.0593      |
| $Y_N = 0.01$   | $M_d$ | 1.0   | 0.0   | 1.0   | 60.36   | 138.47       | 335        | 125.38  | -58.77  | 71.39 | 28.52 | 94.0  | 0.3682 | 0.1471 | 0.3219      |
| $L^*_d = 0.09$ | $N_d$ | 0.0   | 0.0   | 0.0   | 0.09    | 0.02         | 0          | 0.02    | 0.01    | 0.01  | 0.01  | 0.01  | 0.3322 | 0.3322 | 0.0001      |
| Normierung:    | $W_d$ | 1.0   | 1.0   | 1.0   | 95.41   | 0.01         | 0          | 0.0     | 0.0     | 84.21 | 88.6  | 96.48 | 0.3127 | 0.329  | 1.0         |
|                | $N_d$ | 0.0   | 0.0   | 0.0   | 0.09    | 0.02         | 0          | 0.02    | 0.01    | 0.01  | 0.01  | 0.01  | 0.3322 | 0.3322 | 0.0001      |
| Grau $Y_Z=18$  | $W_d$ | 1.13  | 1.13  | 1.13  | 100.0   | 0.0          | 0          | 0.0     | 0.0     | 95.05 | 100.0 | 108.9 | 0.3127 | 0.329  | 1.1287      |
|                | $Z_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11 | 18.0  | 19.6  | 0.3127 | 0.329  | 0.2032      |

**Farbmetrische "Adaptierte Daten (a)": Fernseh-Lichtfarben-System TLS00a für Helligkeit  $L^*=00a$  von Schwarz und für CIE-Normlichtart D65**

| System TLS00a  | Farbe | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $x_d$ | $y_d$ | $z_d$ | $x_d$  | $y_d$  | $y_d/88.59$ |
|----------------|-------|-------|-------|-------|---------|--------------|------------|---------|---------|-------|-------|-------|--------|--------|-------------|
| WCGa           | $R_d$ | 1.0   | 0.0   | 0.0   | 55.35   | 147.67       | 40         | 112.69  | 95.43   | 56.43 | 23.27 | 0.0   | 0.708  | 0.292  | 0.2626      |
|                | $Y_d$ | 1.0   | 1.0   | 0.0   | 93.16   | 133.13       | 99         | -20.63  | 131.52  | 69.24 | 83.34 | 2.48  | 0.4465 | 0.5375 | 0.9406      |
|                | $C_d$ | 0.0   | 1.0   | 0.0   | 81.88   | 199.89       | 146        | -165.52 | 112.06  | 12.81 | 60.07 | 2.48  | 0.17   | 0.7971 | 0.678       |
| D65-Reflexion: | $C_d$ | 0.0   | 1.0   | 1.0   | 85.16   | 105.74       | 190        | -104.25 | -17.67  | 27.77 | 66.32 | 96.48 | 0.1457 | 0.348  | 0.7485      |
|                | $B_d$ | 0.0   | 0.0   | 1.0   | 27.44   | 142.11       | 306        | 82.74   | -115.53 | 14.96 | 5.25  | 94.0  | 0.131  | 0.046  | 0.0593      |
| $Y_N = 0.01$   | $M_d$ | 1.0   | 0.0   | 1.0   | 60.36   | 138.47       | 335        | 125.38  | -58.77  | 71.39 | 28.52 | 94.0  | 0.3682 | 0.1471 | 0.3219      |
| $L^*_d = 0.09$ | $N_d$ | 0.0   | 0.0   | 0.0   | 0.09    | 0.02         | 0          | 0.02    | 0.01    | 0.01  | 0.01  | 0.01  | 0.3322 | 0.3322 | 0.0001      |
| Normierung:    | $W_d$ | 1.0   | 1.0   | 1.0   | 95.41   | 0.01         | 0          | 0.0     | 0.0     | 84.21 | 88.6  | 96.48 | 0.3127 | 0.329  | 1.0         |
|                | $N_d$ | 0.0   | 0.0   | 0.0   | 0.09    | 0.02         | 0          | 0.02    | 0.01    | 0.01  | 0.01  | 0.01  | 0.3322 | 0.3322 | 0.0001      |
| Grau $Y_Z=18$  | $W_d$ | 1.13  | 1.13  | 1.13  | 100.0   | 0.0          | 0          | 0.0     | 0.0     | 95.05 | 100.0 | 108.9 | 0.3127 | 0.329  | 1.1287      |
|                | $Z_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11 | 18.0  | 19.6  | 0.3127 | 0.329  | 0.2032      |

**Farbmetrische "Adaptierte Daten (b)": Fernseh-Lichtfarben-System TLS00b für Helligkeit  $L^*=00b$  von Schwarz und für CIE-Normlichtart D65**

| System TLS00b  | Farbe | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $x_d$              | $y_d$              | $z_d$               | $x_d$ | $y_d$ | $y_d/88.59$ |
|----------------|-------|-------|-------|-------|---------|--------------|------------|---------|---------|--------------------|--------------------|---------------------|-------|-------|-------------|
| WCGa           | $R_d$ | 1.0   | 0.0   | 0.0   | 55.35   | 147.67       | 40         | 112.69  | 95.43   | 56.43(=56.42+0.01) | 23.27(=23.26+0.01) | 0.0(=0.0+0.01)      | 56.43 | 23.27 | 0.2626      |
|                | $Y_d$ | 1.0   | 1.0   | 0.0   | 93.16   | 133.13       | 99         | -20.63  | 131.52  | 69.24(=69.23+0.01) | 83.34(=83.33+0.01) | 2.48(=2.47+0.01)    | 69.24 | 83.34 | 0.9406      |
|                | $C_d$ | 0.0   | 1.0   | 0.0   | 81.88   | 199.89       | 146        | -165.52 | 112.06  | 12.81(=12.8+0.01)  | 60.07(=60.06+0.01) | 2.48(=2.47+0.01)    | 12.81 | 60.07 | 0.678       |
| D65-Reflexion: | $C_d$ | 0.0   | 1.0   | 1.0   | 85.16   | 105.74       | 190        | -104.25 | -17.67  | 27.77(=27.76+0.01) | 66.32(=66.31+0.01) | 96.48(=96.47+0.01)  | 27.77 | 66.32 | 0.7485      |
|                | $B_d$ | 0.0   | 0.0   | 1.0   | 27.44   | 142.11       | 306        | 82.74   | -115.53 | 14.96(=14.95+0.01) | 5.25(=5.24+0.01)   | 94.0(=93.99+0.01)   | 14.96 | 5.25  | 0.0593      |
| $Y_N = 0.0$    | $M_d$ | 1.0   | 0.0   | 1.0   | 60.36   | 138.47       | 335        | 125.38  | -58.77  | 71.39(=71.38+0.01) | 28.52(=28.51+0.01) | 94.0(=93.99+0.01)   | 71.39 | 28.52 | 0.3219      |
| $L^*_d = 0.0$  | $N_d$ | 0.0   | 0.0   | 0.0   | 0.09    | 0.02         | 0          | 0.02    | 0.01    | 0.01(=0.0+0.01)    | 0.01(=0.0+0.01)    | 0.01(=0.0+0.01)     | 0.01  | 0.01  | 0.0001      |
| Normierung:    | $W_d$ | 1.0   | 1.0   | 1.0   | 95.41   | 0.01         | 0          | 0.0     | 0.0     | 84.21(=84.2+0.01)  | 88.6(=88.59+0.01)  | 96.48(=96.47+0.01)  | 84.21 | 88.6  | 1.0         |
|                | $N_d$ | 0.0   | 0.0   | 0.0   | 0.09    | 0.02         | 0          | 0.02    | 0.01    | 0.01(=0.0+0.01)    | 0.01(=0.0+0.01)    | 0.01(=0.0+0.01)     | 0.01  | 0.01  | 0.0001      |
| Grau $Y_Z=18$  | $W_d$ | 1.13  | 1.13  | 1.13  | 100.0   | 0.0          | 0          | 0.0     | 0.0     | 95.05(=95.04+0.01) | 100.0(=99.99+0.01) | 108.9(=108.89+0.01) | 95.05 | 100.0 | 1.1287      |
|                | $Z_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11(=17.1+0.01)  | 18.0(=17.99+0.01)  | 19.6(=19.59+0.01)   | 17.11 | 18.0  | 0.2032      |