

Colorimetric "Standard data": Television Luminous System TLS00 for CIE lightness $L^*_d=00$ of black and for CIE standard illuminant D65

| System TLS00 | Colour | 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 | $Y_{\theta}88.59$ |
|-----------------|--------|-------|-------|-------|---------|------------|------------|---------|--------|-------|-------|-------|--------|--------|-------------------|
| WCGa | R_d | 1.0 | 0.0 | 0.0 | 55.35 | 93.2 | 14 | 90.25 | 23.27 | 56.43 | 23.27 | 0.0 | 0.708 | 0.292 | 0.2626 |
| | Y_d | 1.0 | 1.0 | 0.0 | 93.16 | 85.2 | 108 | -26.23 | 81.06 | 69.24 | 83.34 | 2.48 | 0.4465 | 0.5375 | 0.9406 |
| $L^*ABChAB$ | C_d | 0.0 | 1.0 | 0.0 | 81.88 | 130.03 | 154 | -116.47 | 57.79 | 12.81 | 60.07 | 2.48 | 0.17 | 0.7971 | 0.678 |
| D65 reflection: | C_d | 0.0 | 1.0 | 1.0 | 85.16 | 95.4 | 194 | -92.75 | -22.27 | 27.77 | 66.32 | 96.48 | 0.1457 | 0.348 | 0.7485 |
| | B_d | 0.0 | 0.0 | 1.0 | 27.44 | 85.2 | 288 | 26.22 | -81.06 | 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 | 130.02 | 334 | 116.47 | -57.79 | 71.39 | 28.52 | 94.0 | 0.3682 | 0.1471 | 0.3219 |
| $L^*_d = 0.09$ | W_d | 0.0 | 0.0 | 0.0 | 0.09 | 0.0 | 0 | 0.0 | 0.0 | 0.01 | 0.01 | 0.01 | 0.3322 | 0.3322 | 0.0001 |
| Normalization: | 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 | 0.0 | 0 | 0.0 | 0.0 | 0.01 | 0.01 | 0.01 | 0.3322 | 0.3322 | 0.0001 |
| grey $Y_Z=18$ | 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 | 0.0 | 0 | 0.0 | 0.0 | 17.11 | 18.0 | 19.6 | 0.3127 | 0.329 | 0.2032 |

Colorimetric "Adapted data (a)": Television Luminous System TLS00a for CIE lightness $L^*_d=00a$ of black and for CIE standard illuminant D65

| System TLS00a | Colour | 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 | $Y_{\theta}88.59$ |
|-----------------|--------|-------|-------|-------|---------|------------|------------|---------|--------|-------|-------|-------|--------|--------|-------------------|
| WCGa | R_d | 1.0 | 0.0 | 0.0 | 55.35 | 93.2 | 14 | 90.25 | 23.27 | 56.43 | 23.27 | 0.0 | 0.708 | 0.292 | 0.2626 |
| | Y_d | 1.0 | 1.0 | 0.0 | 93.16 | 85.2 | 108 | -26.23 | 81.06 | 69.24 | 83.34 | 2.48 | 0.4465 | 0.5375 | 0.9406 |
| $L^*ABChAB$ | C_d | 0.0 | 1.0 | 0.0 | 81.88 | 130.03 | 154 | -116.47 | 57.79 | 12.81 | 60.07 | 2.48 | 0.17 | 0.7971 | 0.678 |
| D65 reflection: | C_d | 0.0 | 1.0 | 1.0 | 85.16 | 95.4 | 194 | -92.75 | -22.27 | 27.77 | 66.32 | 96.48 | 0.1457 | 0.348 | 0.7485 |
| | B_d | 0.0 | 0.0 | 1.0 | 27.44 | 85.2 | 288 | 26.22 | -81.06 | 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 | 130.02 | 334 | 116.47 | -57.79 | 71.39 | 28.52 | 94.0 | 0.3682 | 0.1471 | 0.3219 |
| $L^*_d = 0.09$ | W_d | 0.0 | 0.0 | 0.0 | 0.09 | 0.0 | 0 | 0.0 | 0.0 | 0.01 | 0.01 | 0.01 | 0.3322 | 0.3322 | 0.0001 |
| Normalization: | 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 | 0.0 | 0 | 0.0 | 0.0 | 0.01 | 0.01 | 0.01 | 0.3322 | 0.3322 | 0.0001 |
| grey $Y_Z=18$ | 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 | 0.0 | 0 | 0.0 | 0.0 | 17.11 | 18.0 | 19.6 | 0.3127 | 0.329 | 0.2032 |

Colorimetric "Adapted data (b)": Television Luminous System TLS00b for CIE lightness $L^*_d=00b$ of black and for CIE standard illuminant D65

| System TLS00b | Colour | 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 | $Y_{\theta}88.59$ |
|-----------------|--------|-------|-------|-------|---------|------------|------------|---------|--------|--------------------|--------------------|---------------------|-------|-------|-------------------|
| WCGa | R_d | 1.0 | 0.0 | 0.0 | 55.35 | 93.2 | 14 | 90.25 | 23.27 | 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 | 85.2 | 108 | -26.23 | 81.06 | 69.24(=69.23+0.01) | 83.34(=83.33+0.01) | 2.48(=2.47+0.01) | 69.24 | 83.34 | 0.9406 |
| $L^*ABChAB$ | C_d | 0.0 | 1.0 | 0.0 | 81.88 | 130.03 | 154 | -116.47 | 57.79 | 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 reflection: | C_d | 0.0 | 1.0 | 1.0 | 85.16 | 95.4 | 194 | -92.75 | -22.27 | 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 | 85.2 | 288 | 26.22 | -81.06 | 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 | 130.02 | 334 | 116.47 | -57.79 | 71.39(=71.38+0.01) | 28.52(=28.51+0.01) | 94.0(=93.99+0.01) | 71.39 | 28.52 | 0.3219 |
| $L^*_d = 0.0$ | W_d | 0.0 | 0.0 | 0.0 | 0.09 | 0.0 | 0 | 0.0 | 0.0 | 0.01(=0.0+0.01) | 0.01(=0.0+0.01) | 0.01(=0.0+0.01) | 0.01 | 0.01 | 0.0001 |
| Normalization: | 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 | 0.0 | 0 | 0.0 | 0.0 | 0.01(=0.0+0.01) | 0.01(=0.0+0.01) | 0.01(=0.0+0.01) | 0.01 | 0.01 | 0.0001 |
| grey $Y_Z=18$ | 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 | 0.0 | 0 | 0.0 | 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 |

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