

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

| System TLS00         | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$ | $Y_d$ | $Z_d$ | $x_d$  | $y_d$  | $Y_d/88.59$ |
|----------------------|--------|-------|-------|-------|---------|--------------|------------|---------|---------|-------|-------|-------|--------|--------|-------------|
| WCGa                 | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 76.0         | 33         | 63.85   | 41.22   | 29.01 | 16.24 | 4.26  | 0.5859 | 0.328  | 0.1833      |
|                      | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.3    | 95.88        | 97         | -11.91  | 95.13   | 63.74 | 72.69 | 8.27  | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub> | $C_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.31        | 158        | -68.78  | 28.11   | 8.53  | 20.05 | 9.58  | 0.2235 | 0.5254 | 0.2263      |
| D65 reflection:      | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.57        | 236        | -29.21  | -43.7   | 18.74 | 26.27 | 69.02 | 0.1643 | 0.2304 | 0.2965      |
| $Y_N = 0.01$         | $B_d$  | 0.0   | 0.0   | 1.0   | 25.29   | 52.83        | 296        | 23.51   | -47.3   | 6.22  | 4.51  | 22.65 | 0.1863 | 0.1351 | 0.0509      |
| $L^*_d = 0.09$       | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.27        | 353        | 72.78   | -8.48   | 32.46 | 16.95 | 23.04 | 0.448  | 0.234  | 0.1913      |
|                      | $NO_d$ | 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      |
| Normalization:       | $WO_d$ | 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         |
|                      | $NI_d$ | 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      |
| grey $Y_Z=18$        | $WI_d$ | 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      |
|                      | $ZI_d$ | 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      |

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

| System TLS00a        | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$ | $Y_d$ | $Z_d$ | $x_d$  | $y_d$  | $Y_d/88.59$ |
|----------------------|--------|-------|-------|-------|---------|--------------|------------|---------|---------|-------|-------|-------|--------|--------|-------------|
| WCGa                 | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 76.0         | 33         | 63.85   | 41.22   | 29.01 | 16.24 | 4.26  | 0.5859 | 0.328  | 0.1833      |
|                      | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.3    | 95.88        | 97         | -11.91  | 95.13   | 63.74 | 72.69 | 8.27  | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub> | $C_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.31        | 158        | -68.78  | 28.11   | 8.53  | 20.05 | 9.58  | 0.2235 | 0.5254 | 0.2263      |
| D65 reflection:      | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.57        | 236        | -29.21  | -43.7   | 18.74 | 26.27 | 69.02 | 0.1643 | 0.2304 | 0.2965      |
| $Y_N = 0.01$         | $B_d$  | 0.0   | 0.0   | 1.0   | 25.29   | 52.83        | 296        | 23.51   | -47.3   | 6.22  | 4.51  | 22.65 | 0.1863 | 0.1351 | 0.0509      |
| $L^*_d = 0.09$       | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.27        | 353        | 72.78   | -8.48   | 32.46 | 16.95 | 23.04 | 0.448  | 0.234  | 0.1913      |
|                      | $NO_d$ | 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      |
| Normalization:       | $WO_d$ | 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         |
|                      | $NI_d$ | 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      |
| grey $Y_Z=18$        | $WI_d$ | 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      |
|                      | $ZI_d$ | 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      |

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

| System TLS00b        | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$              | $Y_d$              | $Z_d$               | $x_d$ | $y_d$ | $Y_d/88.59$ |
|----------------------|--------|-------|-------|-------|---------|--------------|------------|---------|---------|--------------------|--------------------|---------------------|-------|-------|-------------|
| WCGa                 | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 76.0         | 33         | 63.85   | 41.22   | 29.01(=29.0+0.01)  | 16.24(=16.23+0.01) | 4.26(=4.25+0.01)    | 29.01 | 16.24 | 0.1833      |
|                      | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.3    | 95.88        | 97         | -11.91  | 95.13   | 63.74(=63.73+0.01) | 72.69(=72.68+0.01) | 8.27(=8.26+0.01)    | 63.74 | 72.69 | 0.8204      |
| LabC*h <sub>ab</sub> | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.31        | 158        | -68.78  | 28.11   | 8.53(=8.52+0.01)   | 20.05(=20.04+0.01) | 9.58(=9.57+0.01)    | 8.53  | 20.05 | 0.2263      |
| D65 reflection:      | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.57        | 236        | -29.21  | -43.7   | 18.74(=18.73+0.01) | 26.27(=26.26+0.01) | 69.02(=69.01+0.01)  | 18.74 | 26.27 | 0.2965      |
| $Y_N = 0.0$          | $B_d$  | 0.0   | 0.0   | 1.0   | 25.29   | 52.83        | 296        | 23.51   | -47.3   | 6.22(=6.21+0.01)   | 4.51(=4.5+0.01)    | 22.65(=22.64+0.01)  | 6.22  | 4.51  | 0.0509      |
| $L^*_d = 0.0$        | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.27        | 353        | 72.78   | -8.48   | 32.46(=32.45+0.01) | 16.95(=16.94+0.01) | 23.04(=23.03+0.01)  | 32.46 | 16.95 | 0.1913      |
|                      | $NO_d$ | 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      |
| Normalization:       | $WO_d$ | 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         |
|                      | $NI_d$ | 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      |
| grey $Y_Z=18$        | $WI_d$ | 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      |
|                      | $ZI_d$ | 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      |

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

| System TLS00b          | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$              | $Y_d$              | $Z_d$               | $x_d$  | $y_d$  | $Y_d/88.59$ |
|------------------------|--------|-------|-------|-------|---------|--------------|------------|---------|---------|--------------------|--------------------|---------------------|--------|--------|-------------|
| WCGa                   | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 76.0         | 33         | 63.85   | 41.22   | 29.01(=29.0+0.01)  | 16.24(=16.23+0.01) | 4.26(=4.25+0.01)    | 0.5859 | 0.328  | 0.1833      |
|                        | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.3    | 95.88        | 97         | -11.91  | 95.13   | 63.74(=63.73+0.01) | 72.69(=72.68+0.01) | 8.27(=8.26+0.01)    | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub>   | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.31        | 158        | -68.78  | 28.11   | 8.53(=8.52+0.01)   | 20.05(=20.04+0.01) | 9.58(=9.57+0.01)    | 0.2235 | 0.5254 | 0.2263      |
| D65 reflection:        | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.57        | 236        | -29.21  | -43.7   | 18.74(=18.73+0.01) | 26.27(=26.26+0.01) | 69.02(=69.01+0.01)  | 0.1643 | 0.2304 | 0.2965      |
| $Y_N = 0.0$            | $B_d$  | 0.0   | 0.0   | 1.0   | 25.29   | 52.83        | 296        | 23.51   | -47.3   | 6.22(=6.21+0.01)   | 4.51(=4.5+0.01)    | 22.65(=22.64+0.01)  | 0.1863 | 0.1351 | 0.0509      |
| $L^*_N = 0.0$          | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.27        | 353        | 72.78   | -8.48   | 32.46(=32.45+0.01) | 16.95(=16.94+0.01) | 23.04(=23.03+0.01)  | 0.448  | 0.234  | 0.1913      |
|                        | $N0_d$ | 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)     | 0.3322 | 0.3322 | 0.0001      |
| Normalization:         | $W0_d$ | 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)  | 0.3127 | 0.329  | 1.0         |
|                        | $N1_d$ | 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)     | 0.3322 | 0.3322 | 0.0001      |
| greyY <sub>Z</sub> =18 | $W1_d$ | 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) | 0.3127 | 0.329  | 1.1287      |
|                        | $Z1_d$ | 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)   | 0.3127 | 0.329  | 0.2032      |

Calculated colorimetric data: Television Luminous Systems TLSxxa for CIE lightness  $L^*=00, 06, 11, 18$  of black and for CIE standard illuminant D65

| System TLS00a          | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$             | $Y_d$              | $Z_d$                | $x_d$  | $y_d$  | $Y_d/88.59$ |
|------------------------|--------|-------|-------|-------|---------|--------------|------------|---------|---------|-------------------|--------------------|----------------------|--------|--------|-------------|
| WCGa                   | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 75.95        | 33         | 63.82   | 41.18   | 29.0(=29.0+0.0)   | 16.24(=16.24+0.0)  | 4.27(=4.27+0.0)      | 0.5858 | 0.328  | 0.1834      |
|                        | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.29   | 95.83        | 97         | -11.91  | 95.09   | 63.71(=63.71+0.0) | 72.66(=72.66+0.0)  | 8.28(=8.28+0.0)      | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub>   | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.26        | 158        | -68.73  | 28.09   | 8.54(=8.54+0.0)   | 20.05(=20.05+0.0)  | 9.59(=9.59+0.0)      | 0.2236 | 0.5253 | 0.2264      |
| D65 reflection:        | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.55        | 236        | -29.19  | -43.68  | 18.74(=18.74+0.0) | 26.27(=26.27+0.0)  | 68.99(=68.99+0.0)    | 0.1644 | 0.2304 | 0.2966      |
| $Y_N = 0.0$            | $B_d$  | 0.0   | 0.0   | 1.0   | 25.31   | 52.78        | 296        | 23.48   | -47.26  | 6.23(=6.23+0.0)   | 4.52(=4.52+0.0)    | 22.65(=22.65+0.0)    | 0.1865 | 0.1353 | 0.051       |
| $L^*_N = 0.0$          | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.24        | 353        | 72.74   | -8.48   | 32.45(=32.45+0.0) | 16.95(=16.95+0.0)  | 23.04(=23.04+0.0)    | 0.448  | 0.234  | 0.1914      |
|                        | $N0_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=0.02+0.0)   | 0.02(=0.02+0.0)    | 0.02(=0.02+0.0)      | 0.3328 | 0.3328 | 0.0002      |
| Normalization:         | $W0_d$ | 1.0   | 1.0   | 1.0   | 95.4    | 0.01         | 0          | 0.0     | 0.0     | 84.17(=84.17+0.0) | 88.56(=88.56+0.0)  | 96.44(=96.44+0.0)    | 0.3127 | 0.329  | 1.0         |
|                        | $N1_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=0.02+0.0)   | 0.02(=0.02+0.0)    | 0.02(=0.02+0.0)      | 0.3328 | 0.3328 | 0.0002      |
| greyY <sub>Z</sub> =18 | $W1_d$ | 1.13  | 1.13  | 1.13  | 99.98   | 0.0          | 0          | 0.0     | 0.0     | 95.0(=95.0+0.0)   | 99.95(=99.95+0.0)  | 108.85(=108.85+0.0)  | 0.3127 | 0.329  | 1.1287      |
|                        | $Z1_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11(=17.11+0.0) | 18.0(=18.0+0.0)    | 19.6(=19.6+0.0)      | 0.3127 | 0.329  | 0.2032      |
| System TLS06a          | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$             | $Y_d$              | $Z_d$                | $x_d$  | $y_d$  | $Y_d/88.59$ |
| WCGa                   | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 75.95        | 33         | 63.82   | 41.18   | 29.0(=28.4+0.6)   | 16.24(=15.61+0.63) | 4.27(=3.58+0.69)     | 0.5858 | 0.328  | 0.1834      |
|                        | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.29   | 95.83        | 97         | -11.91  | 95.09   | 63.71(=63.11+0.6) | 72.66(=72.03+0.63) | 8.28(=7.59+0.69)     | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub>   | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.26        | 158        | -68.73  | 28.09   | 8.54(=7.94+0.6)   | 20.05(=19.42+0.63) | 9.59(=8.9+0.69)      | 0.2236 | 0.5253 | 0.2264      |
| D65 reflection:        | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.55        | 236        | -29.19  | -43.68  | 18.74(=18.14+0.6) | 26.27(=25.64+0.63) | 68.99(=68.31+0.69)   | 0.1644 | 0.2304 | 0.2966      |
| $Y_N = 0.63$           | $B_d$  | 0.0   | 0.0   | 1.0   | 25.31   | 52.78        | 296        | 23.48   | -47.26  | 6.23(=5.63+0.6)   | 4.52(=3.89+0.63)   | 22.65(=21.96+0.69)   | 0.1865 | 0.1353 | 0.051       |
| $L^*_N = 5.69$         | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.24        | 353        | 72.74   | -8.48   | 32.45(=31.85+0.6) | 16.95(=16.32+0.63) | 23.04(=22.35+0.69)   | 0.448  | 0.234  | 0.1914      |
|                        | $N0_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=0.02+0.6)   | 0.02(=0.02+0.63)   | 0.02(=0.02+0.69)     | 0.3328 | 0.3328 | 0.0002      |
| Normalization:         | $W0_d$ | 1.0   | 1.0   | 1.0   | 95.4    | 0.01         | 0          | 0.0     | 0.0     | 84.17(=83.57+0.6) | 88.56(=87.93+0.63) | 96.44(=95.75+0.69)   | 0.3127 | 0.329  | 1.0         |
|                        | $N1_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=0.02+0.6)   | 0.02(=0.02+0.63)   | 0.02(=0.02+0.69)     | 0.3328 | 0.3328 | 0.0002      |
| greyY <sub>Z</sub> =18 | $W1_d$ | 1.13  | 1.13  | 1.13  | 99.98   | 0.0          | 0          | 0.0     | 0.0     | 95.0(=94.41+0.6)  | 99.95(=99.32+0.63) | 108.85(=108.17+0.69) | 0.3127 | 0.329  | 1.1287      |
|                        | $Z1_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11(=16.51+0.6) | 18.0(=17.37+0.63)  | 19.6(=18.91+0.69)    | 0.3127 | 0.329  | 0.2032      |
| System TLS11a          | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$             | $Y_d$              | $Z_d$                | $x_d$  | $y_d$  | $Y_d/88.59$ |
| WCGa                   | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 75.95        | 33         | 63.82   | 41.18   | 29.0(=27.81+1.2)  | 16.24(=14.98+1.26) | 4.27(=2.9+1.37)      | 0.5858 | 0.328  | 0.1834      |
|                        | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.29   | 95.83        | 97         | -11.91  | 95.09   | 63.71(=62.52+1.2) | 72.66(=71.4+1.26)  | 8.28(=6.9+1.37)      | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub>   | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.26        | 158        | -68.73  | 28.09   | 8.54(=7.34+1.2)   | 20.05(=18.79+1.26) | 9.59(=8.21+1.37)     | 0.2236 | 0.5253 | 0.2264      |
| D65 reflection:        | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.55        | 236        | -29.19  | -43.68  | 18.74(=17.54+1.2) | 26.27(=25.01+1.26) | 68.99(=67.62+1.37)   | 0.1644 | 0.2304 | 0.2966      |
| $Y_N = 1.26$           | $B_d$  | 0.0   | 0.0   | 1.0   | 25.31   | 52.78        | 296        | 23.48   | -47.26  | 6.23(=5.03+1.2)   | 4.52(=3.26+1.26)   | 22.65(=21.28+1.37)   | 0.1865 | 0.1353 | 0.051       |
| $L^*_N = 11.0$         | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.24        | 353        | 72.74   | -8.48   | 32.45(=31.25+1.2) | 16.95(=15.69+1.26) | 23.04(=21.67+1.37)   | 0.448  | 0.234  | 0.1914      |
|                        | $N0_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=0.02+1.2)   | 0.02(=0.02+1.26)   | 0.02(=0.02+1.37)     | 0.3328 | 0.3328 | 0.0002      |
| Normalization:         | $W0_d$ | 1.0   | 1.0   | 1.0   | 95.4    | 0.01         | 0          | 0.0     | 0.0     | 84.17(=82.97+1.2) | 88.56(=87.37+1.26) | 96.44(=95.07+1.37)   | 0.3127 | 0.329  | 1.0         |
|                        | $N1_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=0.02+1.2)   | 0.02(=0.02+1.26)   | 0.02(=0.02+1.37)     | 0.3328 | 0.3328 | 0.0002      |
| greyY <sub>Z</sub> =18 | $W1_d$ | 1.13  | 1.13  | 1.13  | 99.98   | 0.0          | 0          | 0.0     | 0.0     | 95.0(=93.81+1.2)  | 99.95(=98.69+1.26) | 108.85(=107.48+1.37) | 0.3127 | 0.329  | 1.1287      |
|                        | $Z1_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11(=15.91+1.2) | 18.0(=16.74+1.26)  | 19.6(=18.23+1.37)    | 0.3127 | 0.329  | 0.2032      |
| System TLS18a          | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$             | $Y_d$              | $Z_d$                | $x_d$  | $y_d$  | $Y_d/88.59$ |
| WCGa                   | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 75.95        | 33         | 63.82   | 41.18   | 29.0(=26.61+2.4)  | 16.24(=13.72+2.52) | 4.27(=1.52+2.74)     | 0.5858 | 0.328  | 0.1834      |
|                        | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.29   | 95.83        | 97         | -11.91  | 95.09   | 63.71(=61.32+2.4) | 72.66(=70.14+2.52) | 8.28(=5.53+2.74)     | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub>   | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.26        | 158        | -68.73  | 28.09   | 8.54(=6.14+2.4)   | 20.05(=17.53+2.52) | 9.59(=6.84+2.74)     | 0.2236 | 0.5253 | 0.2264      |
| D65 reflection:        | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.55        | 236        | -29.19  | -43.68  | 18.74(=16.34+2.4) | 26.27(=23.75+2.52) | 68.99(=66.25+2.74)   | 0.1644 | 0.2304 | 0.2966      |
| $Y_N = 2.52$           | $B_d$  | 0.0   | 0.0   | 1.0   | 25.31   | 52.78        | 296        | 23.48   | -47.26  | 6.23(=3.83+2.4)   | 4.52(=2.0+2.52)    | 22.65(=19.9+2.74)    | 0.1865 | 0.1353 | 0.051       |
| $L^*_N = 18.01$        | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.24        | 353        | 72.74   | -8.48   | 32.45(=30.06+2.4) | 16.95(=14.43+2.52) | 23.04(=20.29+2.74)   | 0.448  | 0.234  | 0.1914      |
|                        | $N0_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=0.02+2.4)   | 0.02(=0.02+2.52)   | 0.02(=0.02+2.74)     | 0.3328 | 0.3328 | 0.0002      |
| Normalization:         | $W0_d$ | 1.0   | 1.0   | 1.0   | 95.4    | 0.01         | 0          | 0.0     | 0.0     | 84.17(=81.78+2.4) | 88.56(=86.04+2.52) | 96.44(=93.7+2.74)    | 0.3127 | 0.329  | 1.0         |
|                        | $N1_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=0.02+2.4)   | 0.02(=0.02+2.52)   | 0.02(=0.02+2.74)     | 0.3328 | 0.3328 | 0.0002      |
| greyY <sub>Z</sub> =18 | $W1_d$ | 1.13  | 1.13  | 1.13  | 99.98   | 0.0          | 0          | 0.0     | 0.0     | 95.0(=92.61+2.4)  | 99.95(=97.43+2.52) | 108.85(=106.11+2.74) | 0.3127 | 0.329  | 1.1287      |
|                        | $Z1_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11(=14.71+2.4) | 18.0(=15.48+2.52)  | 19.6(=16.86+2.74)    | 0.3127 | 0.329  | 0.2032      |

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

| System TLS00b          | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$              | $Y_d$              | $Z_d$               | $x_d$  | $y_d$  | $Y_d/88.59$ |
|------------------------|--------|-------|-------|-------|---------|--------------|------------|---------|---------|--------------------|--------------------|---------------------|--------|--------|-------------|
| WCGa                   | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 76.0         | 33         | 63.85   | 41.22   | 29.01(=29.0+0.01)  | 16.24(=16.23+0.01) | 4.26(=4.25+0.01)    | 0.5859 | 0.328  | 0.1833      |
|                        | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.3    | 95.88        | 97         | -11.91  | 95.13   | 63.74(=63.73+0.01) | 72.69(=72.68+0.01) | 8.27(=8.26+0.01)    | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub>   | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.31        | 158        | -68.78  | 28.11   | 8.53(=8.52+0.01)   | 20.05(=20.04+0.01) | 9.58(=9.57+0.01)    | 0.2235 | 0.5254 | 0.2263      |
| D65 reflection:        | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.55        | 236        | -29.21  | -43.7   | 18.74(=18.73+0.01) | 26.27(=26.26+0.01) | 69.02(=69.01+0.01)  | 0.1643 | 0.2304 | 0.2965      |
| $Y_N = 0.0$            | $B_d$  | 0.0   | 0.0   | 1.0   | 25.29   | 52.83        | 296        | 23.51   | -47.3   | 6.22(=6.21+0.01)   | 4.51(=4.5+0.01)    | 22.65(=22.64+0.01)  | 0.1863 | 0.1351 | 0.0509      |
| $L^*_N = 0.0$          | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.27        | 353        | 72.78   | -8.48   | 32.46(=32.45+0.01) | 16.95(=16.94+0.01) | 23.04(=23.03+0.01)  | 0.448  | 0.234  | 0.1913      |
|                        | $N0_d$ | 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)     | 0.3322 | 0.3322 | 0.0001      |
| Normalization:         | $W0_d$ | 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)  | 0.3127 | 0.329  | 1.0         |
|                        | $N1_d$ | 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)     | 0.3322 | 0.3322 | 0.0001      |
| greyY <sub>Z</sub> =18 | $W1_d$ | 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) | 0.3127 | 0.329  | 1.1287      |
|                        | $Z1_d$ | 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)   | 0.3127 | 0.329  | 0.2032      |

Calculated colorimetric data: Television Luminous Systems TLSxxa for CIE lightness  $L^*=27, 33, 52, 70$  of black and for CIE standard illuminant D65

| System TLS27a          | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$                | $Y_d$                | $Z_d$                | $x_d$  | $y_d$  | $Y_d/88.59$ |
|------------------------|--------|-------|-------|-------|---------|--------------|------------|---------|---------|----------------------|----------------------|----------------------|--------|--------|-------------|
| WCGa                   | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 75.95        | 33         | 63.82   | 41.18   | 29.0(=24.21+4.79)    | 16.24(=11.2+5.04)    | 4.27(=-1.21+5.49)    | 0.5858 | 0.328  | 0.1834      |
|                        | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.29   | 95.83        | 97         | -11.91  | 95.09   | 63.71(=58.92+4.79)   | 72.66(=67.62+5.04)   | 8.28(=2.79+5.49)     | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub>   | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.26        | 158        | -68.73  | 28.09   | 8.54(=3.74+4.79)     | 20.05(=15.01+5.04)   | 9.59(=4.1+5.49)      | 0.2236 | 0.5253 | 0.2264      |
| D65 reflection:        | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.55        | 236        | -29.19  | -43.68  | 18.74(=13.95+4.79)   | 26.27(=21.23+5.04)   | 68.99(=63.51+5.49)   | 0.1644 | 0.2304 | 0.2966      |
| $Y_N = 5.04$           | $B_d$  | 0.0   | 0.0   | 1.0   | 25.31   | 52.78        | 296        | 23.48   | -47.26  | 6.23(=-1.44+7.9)     | 4.52(=-0.25+5.04)    | 22.65(=17.16+5.49)   | 0.1865 | 0.1353 | 0.051       |
| $L^*_N = 26.85$        | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.24        | 353        | 72.74   | -8.48   | 32.45(=27.66+4.79)   | 16.95(=11.91+5.04)   | 23.04(=17.55+5.49)   | 0.448  | 0.234  | 0.1914      |
|                        | $N0_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=-4.76+4.79)    | 0.02(=-5.01+5.04)    | 0.02(=-5.46+5.49)    | 0.3328 | 0.3328 | 0.0002      |
| Normalization:         | $W0_d$ | 1.0   | 1.0   | 1.0   | 95.4    | 0.01         | 0          | 0.0     | 0.0     | 84.17(=79.38+4.79)   | 88.56(=83.52+5.04)   | 96.44(=90.95+5.49)   | 0.3127 | 0.329  | 1.0         |
|                        | $N1_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=-4.76+4.79)    | 0.02(=-5.01+5.04)    | 0.02(=-5.46+5.49)    | 0.3328 | 0.3328 | 0.0002      |
| greyY <sub>Z</sub> =18 | $W1_d$ | 1.13  | 1.13  | 1.13  | 99.98   | 0.0          | 0          | 0.0     | 0.0     | 95.0(=90.21+4.79)    | 99.95(=94.91+5.04)   | 108.85(=103.37+5.49) | 0.3127 | 0.329  | 1.1287      |
|                        | $Z1_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11(=12.32+4.79)   | 18.0(=12.96+5.04)    | 19.6(=14.11+5.49)    | 0.3127 | 0.329  | 0.2032      |
| System TLS38a          | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$                | $Y_d$                | $Z_d$                | $x_d$  | $y_d$  | $Y_d/88.59$ |
| WCGa                   | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 75.95        | 33         | 63.82   | 41.18   | 29.0(=19.42+9.58)    | 16.24(=6.16+10.08)   | 4.27(=-6.7+10.98)    | 0.5858 | 0.328  | 0.1834      |
|                        | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.29   | 95.83        | 97         | -11.91  | 95.09   | 63.71(=54.13+9.58)   | 72.66(=62.58+10.08)  | 8.28(=-2.69+10.98)   | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub>   | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.26        | 158        | -68.73  | 28.09   | 8.54(=-1.04+9.58)    | 20.05(=9.97+10.08)   | 9.59(=-1.38+10.98)   | 0.2236 | 0.5253 | 0.2264      |
| D65 reflection:        | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.55        | 236        | -29.19  | -43.68  | 18.74(=9.16+9.58)    | 26.27(=16.19+10.08)  | 68.99(=58.02+10.98)  | 0.1644 | 0.2304 | 0.2966      |
| $Y_N = 10.08$          | $B_d$  | 0.0   | 0.0   | 1.0   | 25.31   | 52.78        | 296        | 23.48   | -47.26  | 6.23(=-3.34+9.58)    | 4.52(=-5.55+10.08)   | 22.65(=11.67+10.98)  | 0.1865 | 0.1353 | 0.051       |
| $L^*_N = 37.99$        | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.24        | 353        | 72.74   | -8.48   | 32.45(=22.87+9.58)   | 16.95(=6.87+10.08)   | 23.04(=-12.06+10.98) | 0.448  | 0.234  | 0.1914      |
|                        | $N0_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=-9.55+9.58)    | 0.02(=-10.95+10.08)  | 0.02(=-10.95+10.98)  | 0.3328 | 0.3328 | 0.0002      |
| Normalization:         | $W0_d$ | 1.0   | 1.0   | 1.0   | 95.4    | 0.01         | 0          | 0.0     | 0.0     | 84.17(=74.59+9.58)   | 88.56(=78.48+10.08)  | 96.44(=85.47+10.98)  | 0.3127 | 0.329  | 1.0         |
|                        | $N1_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=-9.55+9.58)    | 0.02(=-10.95+10.08)  | 0.02(=-10.95+10.98)  | 0.3328 | 0.3328 | 0.0002      |
| greyY <sub>Z</sub> =18 | $W1_d$ | 1.13  | 1.13  | 1.13  | 99.98   | 0.0          | 0          | 0.0     | 0.0     | 95.0(=85.42+9.58)    | 99.95(=89.87+10.08)  | 108.85(=97.88+10.98) | 0.3127 | 0.329  | 1.1287      |
|                        | $Z1_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11(=7.53+9.58)    | 18.0(=7.92+10.08)    | 19.6(=8.62+10.98)    | 0.3127 | 0.329  | 0.2032      |
| System TLS52a          | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$                | $Y_d$                | $Z_d$                | $x_d$  | $y_d$  | $Y_d/88.59$ |
| WCGa                   | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 75.95        | 33         | 63.82   | 41.18   | 29.0(=9.84+19.16)    | 16.24(=-3.91+20.16)  | 4.27(=-17.67+21.95)  | 0.5858 | 0.328  | 0.1834      |
|                        | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.29   | 95.83        | 97         | -11.91  | 95.09   | 63.71(=44.55+19.16)  | 72.66(=52.5+20.16)   | 8.28(=-13.66+21.95)  | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub>   | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.26        | 158        | -68.73  | 28.09   | 8.54(=-10.62+19.16)  | 20.05(=-0.1+20.16)   | 9.59(=-12.36+21.95)  | 0.2236 | 0.5253 | 0.2264      |
| D65 reflection:        | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.55        | 236        | -29.19  | -43.68  | 18.74(=-0.41+19.16)  | 26.27(=6.11+20.16)   | 68.99(=47.04+21.95)  | 0.1644 | 0.2304 | 0.2966      |
| $Y_N = 20.16$          | $B_d$  | 0.0   | 0.0   | 1.0   | 25.31   | 52.78        | 296        | 23.48   | -47.26  | 6.23(=-12.92+19.16)  | 4.52(=-15.63+20.16)  | 22.65(=0.7+21.95)    | 0.1865 | 0.1353 | 0.051       |
| $L^*_N = 52.02$        | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.24        | 353        | 72.74   | -8.48   | 32.45(=13.29+19.16)  | 16.95(=-3.2+20.16)   | 23.04(=-1.09+21.95)  | 0.448  | 0.234  | 0.1914      |
|                        | $N0_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=-19.13+19.16)  | 0.02(=-20.13+20.16)  | 0.02(=-21.92+21.95)  | 0.3328 | 0.3328 | 0.0002      |
| Normalization:         | $W0_d$ | 1.0   | 1.0   | 1.0   | 95.4    | 0.01         | 0          | 0.0     | 0.0     | 84.17(=65.01+19.16)  | 88.56(=68.4+20.16)   | 96.44(=74.49+21.95)  | 0.3127 | 0.329  | 1.0         |
|                        | $N1_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=-19.13+19.16)  | 0.02(=-20.13+20.16)  | 0.02(=-21.92+21.95)  | 0.3328 | 0.3328 | 0.0002      |
| greyY <sub>Z</sub> =18 | $W1_d$ | 1.13  | 1.13  | 1.13  | 99.98   | 0.0          | 0          | 0.0     | 0.0     | 95.0(=75.84+19.16)   | 99.95(=79.79+20.16)  | 108.85(=86.9+21.95)  | 0.3127 | 0.329  | 1.1287      |
|                        | $Z1_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11(=-2.04+19.16)  | 18.0(=-2.15+20.16)   | 19.6(=-2.34+21.95)   | 0.3127 | 0.329  | 0.2032      |
| System TLS70a          | Colour | $r_d$ | $g_d$ | $b_d$ | $L^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $a^*_d$ | $b^*_d$ | $X_d$                | $Y_d$                | $Z_d$                | $x_d$  | $y_d$  | $Y_d/88.59$ |
| WCGa                   | $R_d$  | 1.0   | 0.0   | 0.0   | 47.29   | 75.95        | 33         | 63.82   | 41.18   | 29.0(=-9.31+38.32)   | 16.24(=-24.07+40.32) | 4.27(=-39.62+43.9)   | 0.5858 | 0.328  | 0.1834      |
|                        | $Y_d$  | 1.0   | 1.0   | 0.0   | 88.29   | 95.83        | 97         | -11.91  | 95.09   | 63.71(=25.39+38.32)  | 72.66(=32.34+40.32)  | 8.28(=-35.61+43.9)   | 0.4405 | 0.5023 | 0.8204      |
| LabC*h <sub>ab</sub>   | $G_d$  | 0.0   | 1.0   | 0.0   | 51.89   | 74.26        | 158        | -68.73  | 28.09   | 8.54(=-29.78+38.32)  | 20.05(=-20.26+40.32) | 9.59(=-34.31+43.9)   | 0.2236 | 0.5253 | 0.2264      |
| D65 reflection:        | $C_d$  | 0.0   | 1.0   | 1.0   | 58.29   | 52.55        | 236        | -29.19  | -43.68  | 18.74(=-19.57+38.32) | 26.27(=-14.04+40.32) | 68.99(=25.09+43.9)   | 0.1644 | 0.2304 | 0.2966      |
| $Y_N = 40.32$          | $B_d$  | 0.0   | 0.0   | 1.0   | 25.31   | 52.78        | 296        | 23.48   | -47.26  | 6.23(=-32.08+38.32)  | 4.52(=-35.79+40.32)  | 22.65(=-21.24+43.9)  | 0.1865 | 0.1353 | 0.051       |
| $L^*_N = 69.7$         | $M_d$  | 1.0   | 0.0   | 1.0   | 48.2    | 73.24        | 353        | 72.74   | -8.48   | 32.45(=-5.86+38.32)  | 16.95(=-23.36+40.32) | 23.04(=-20.85+43.9)  | 0.448  | 0.234  | 0.1914      |
|                        | $N0_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=-38.29+38.32)  | 0.02(=-40.29+40.32)  | 0.02(=-43.87+43.9)   | 0.3328 | 0.3328 | 0.0002      |
| Normalization:         | $W0_d$ | 1.0   | 1.0   | 1.0   | 95.4    | 0.01         | 0          | 0.0     | 0.0     | 84.17(=45.85+38.32)  | 88.56(=48.24+40.32)  | 96.44(=52.54+43.9)   | 0.3127 | 0.329  | 1.0         |
|                        | $N1_d$ | 0.0   | 0.0   | 0.0   | 0.18    | 0.05         | 0          | 0.04    | 0.03    | 0.02(=-38.29+38.32)  | 0.02(=-40.29+40.32)  | 0.02(=-43.87+43.9)   | 0.3328 | 0.3328 | 0.0002      |
| greyY <sub>Z</sub> =18 | $W1_d$ | 1.13  | 1.13  | 1.13  | 99.98   | 0.0          | 0          | 0.0     | 0.0     | 95.0(=56.68+38.32)   | 99.95(=59.63+40.32)  | 108.85(=64.95+43.9)  | 0.3127 | 0.329  | 1.1287      |
|                        | $Z1_d$ | 0.18  | 0.18  | 0.18  | 49.5    | 0.01         | 0          | 0.01    | 0.0     | 17.11(=-21.2+38.32)  | 18.0(=-22.31+40.32)  | 19.6(=-24.29+43.9)   | 0.3127 | 0.329  | 0.2032      |