

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

System TLS00	Color i	r^*_d	g^*_d	b^*_d	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	0.01	11.92	0.01	11.93	0.0	0.0	0.0	0.0	0.3127	0.329	0.0
$Y_N = 0.0$	02,1 _d	0.125	0.125	0.125	11.93	11.92	11.94	11.93	0.125	1.33	1.4	1.52	0.3127	0.329	0.0158
$L^*_N = 0.01$	03,2 _d	0.25	0.25	0.25	23.85	11.92	23.86	11.93	0.25	3.85	4.05	4.41	0.3127	0.329	0.0458
	04,3 _d	0.375	0.375	0.375	35.78	11.93	35.79	11.92	0.375	8.45	8.89	9.68	0.3127	0.329	0.1004
	05,4 _d	0.5	0.5	0.5	47.7	11.92	47.71	11.92	0.5	15.74	16.56	18.03	0.3127	0.329	0.1869
	06,5 _d	0.625	0.625	0.625	59.63	11.93	59.64	11.92	0.625	26.34	27.71	30.18	0.3127	0.329	0.3128
	07,6 _d	0.75	0.75	0.75	71.55	11.92	71.56	11.93	0.75	40.86	42.99	46.81	0.3127	0.329	0.4853
	08,7 _d	0.875	0.875	0.875	83.48	11.93	83.49	11.92	0.875	59.94	63.07	68.67	0.3127	0.329	0.7119
	09,8 _d	1.0	1.0	1.0	95.41	11.93	95.41	11.93	1.0	84.2	88.59	96.46	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	0.01		0.01		0.0	0.0	0.0	0.0	0.3127	0.329	0.0
	11,W _d	1.0	1.0	1.0	95.41	95.4	95.41	95.4		84.2	88.59	96.46	0.3127	0.329	1.0

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

System TLS00a	Color i	r^*_d	g^*_d	b^*_d	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	0.01	11.92	0.01	11.93	0.0	0.0	0.0	0.0	0.3127	0.329	0.0
$Y_N = 0.0$	02,1 _d	0.125	0.125	0.125	11.93	11.92	11.94	11.93	0.125	1.33	1.4	1.52	0.3127	0.329	0.0158
$L^*_N = 0.01$	03,2 _d	0.25	0.25	0.25	23.85	11.92	23.86	11.93	0.25	3.85	4.05	4.41	0.3127	0.329	0.0458
	04,3 _d	0.375	0.375	0.375	35.78	11.93	35.79	11.92	0.375	8.45	8.89	9.68	0.3127	0.329	0.1004
	05,4 _d	0.5	0.5	0.5	47.7	11.92	47.71	11.92	0.5	15.74	16.56	18.03	0.3127	0.329	0.1869
	06,5 _d	0.625	0.625	0.625	59.63	11.93	59.64	11.92	0.625	26.34	27.71	30.18	0.3127	0.329	0.3128
	07,6 _d	0.75	0.75	0.75	71.55	11.92	71.56	11.93	0.75	40.86	42.99	46.81	0.3127	0.329	0.4853
	08,7 _d	0.875	0.875	0.875	83.48	11.93	83.49	11.92	0.875	59.94	63.07	68.67	0.3127	0.329	0.7119
	09,8 _d	1.0	1.0	1.0	95.41	11.93	95.41	11.93	1.0	84.2	88.59	96.46	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	0.01		0.01		0.0	0.0	0.0	0.0	0.3127	0.329	0.0
	11,W _d	1.0	1.0	1.0	95.41	95.4	95.41	95.4		84.2	88.59	96.46	0.3127	0.329	1.0

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

System TLS00b	Color i	r^*_d	g^*_d	b^*_d	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{b,d}$	$Y_{b,d}$	$Z_{b,d}$	$x_{b,d}$	$y_{b,d}$	$Y_{b,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	0.01	11.92	0.01	11.93	0.0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
$Y_N = 0.0$	02,1 _d	0.125	0.125	0.125	11.93	11.92	11.94	11.93	0.125	1.33(=1.33+0.0)	1.4(=1.39+0.0)	1.52(=1.52+0.0)	0.3127	0.329	0.0158
$L^*_N = 0.0$	03,2 _d	0.25	0.25	0.25	23.85	11.92	23.86	11.93	0.25	3.85(=3.85+0.0)	4.05(=4.05+0.0)	4.41(=4.41+0.0)	0.3127	0.329	0.0458
	04,3 _d	0.375	0.375	0.375	35.78	11.93	35.79	11.92	0.375	8.45(=8.45+0.0)	8.89(=8.89+0.0)	9.68(=9.68+0.0)	0.3127	0.329	0.1004
	05,4 _d	0.5	0.5	0.5	47.7	11.92	47.71	11.92	0.5	15.74(=15.74+0.0)	16.56(=16.56+0.0)	18.03(=18.03+0.0)	0.3127	0.329	0.1869
	06,5 _d	0.625	0.625	0.625	59.63	11.93	59.64	11.92	0.625	26.34(=26.34+0.0)	27.71(=27.71+0.0)	30.18(=30.17+0.0)	0.3127	0.329	0.3128
	07,6 _d	0.75	0.75	0.75	71.55	11.92	71.56	11.93	0.75	40.86(=40.86+0.0)	42.99(=42.99+0.0)	46.81(=46.81+0.0)	0.3127	0.329	0.4853
	08,7 _d	0.875	0.875	0.875	83.48	11.93	83.49	11.92	0.875	59.94(=59.94+0.0)	63.07(=63.07+0.0)	68.67(=68.67+0.0)	0.3127	0.329	0.7119
	09,8 _d	1.0	1.0	1.0	95.41	11.93	95.41	11.93	1.0	84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	0.01		0.01		0.0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	11,W _d	1.0	1.0	1.0	95.41	95.4	95.41	95.4		84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0

CEI60-7N00

Test chart CEI6; 9 grey steps and NW_d for TLS00, TLS00a & TLS00b
Calculation of CIE-colour data for sRGB display for 3 reflections

input: *rgb*
output: *->rgbdd*

see similar files: <http://farbe.li.tu-berlin.de/CEI6/CEI6L0NA.PDF> / .PS; start output, page 1/5
technical information: <http://farbe.li.tu-berlin.de> or <http://color.li.tu-berlin.de>

TUB registration: 20211101-CEI6/CEI6L0NP.PDF /.PS
application for measurement or viewing of display output

TUB material: code=rha4ta

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

System TLS00b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	0.01	11.92	0.01	11.93	0.0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
$Y_N = 0.0$	02,1 _d	0.125	0.125	0.125	11.93	11.92	11.94	11.93	0.125	1.33(=1.33+0.0)	1.4(=1.39+0.0)	1.52(=1.52+0.0)	0.3127	0.329	0.0158
$L^*_N = 0.0$	03,2 _d	0.25	0.25	0.25	23.85	11.92	23.86	11.93	0.25	3.85(=3.85+0.0)	4.05(=4.05+0.0)	4.41(=4.41+0.0)	0.3127	0.329	0.0458
	04,3 _d	0.375	0.375	0.375	35.78	11.93	35.79	11.92	0.375	8.45(=8.45+0.0)	8.89(=8.89+0.0)	9.68(=9.68+0.0)	0.3127	0.329	0.1004
	05,4 _d	0.5	0.5	0.5	47.7	11.92	47.71	11.92	0.5	15.74(=15.74+0.0)	16.56(=16.56+0.0)	18.03(=18.03+0.0)	0.3127	0.329	0.1869
	06,5 _d	0.625	0.625	0.625	59.63	11.93	59.64	11.92	0.625	26.34(=26.34+0.0)	27.71(=27.71+0.0)	30.18(=30.17+0.0)	0.3127	0.329	0.3128
	07,6 _d	0.75	0.75	0.75	71.55	11.92	71.56	11.93	0.75	40.86(=40.86+0.0)	42.99(=42.99+0.0)	46.81(=46.81+0.0)	0.3127	0.329	0.4853
	08,7 _d	0.875	0.875	0.875	83.48	11.93	83.49	11.92	0.875	59.94(=59.94+0.0)	63.07(=63.07+0.0)	68.67(=68.67+0.0)	0.3127	0.329	0.7119
	09,8 _d	1.0	1.0	1.0	95.41	11.93	95.41	11.93	1.0	84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	0.01	95.4	0.01	95.4	0.0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	11,W _d	1.0	1.0	1.0	95.41	95.4	95.41	95.4	0.0	84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0

Calculated colorimetric data (b): Television Luminous Systems TLS00b for CIE lightness $L^*=00$ of black and for illuminant D65

System TLS00b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	0.01	11.92	0.01	11.93	0.0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3037	0.3195	0.0
$Y_N = 0.0$	02,1 _d	0.125	0.125	0.125	11.93	11.92	11.94	11.93	0.125	1.33(=1.33+0.0)	1.4(=1.4+0.0)	1.52(=1.52+0.0)	0.3127	0.329	0.0158
$L^*_N = 0.0$	03,2 _d	0.25	0.25	0.25	23.85	11.92	23.86	11.93	0.25	3.85(=3.85+0.0)	4.05(=4.05+0.0)	4.41(=4.41+0.0)	0.3127	0.329	0.0458
	04,3 _d	0.375	0.375	0.375	35.78	11.93	35.79	11.92	0.375	8.45(=8.45+0.0)	8.89(=8.89+0.0)	9.68(=9.68+0.0)	0.3127	0.329	0.1004
	05,4 _d	0.5	0.5	0.5	47.7	11.92	47.71	11.92	0.5	15.74(=15.74+0.0)	16.56(=16.56+0.0)	18.03(=18.03+0.0)	0.3127	0.329	0.1869
	06,5 _d	0.625	0.625	0.625	59.63	11.93	59.64	11.92	0.625	26.34(=26.34+0.0)	27.71(=27.71+0.0)	30.18(=30.18+0.0)	0.3127	0.329	0.3128
	07,6 _d	0.75	0.75	0.75	71.55	11.92	71.56	11.93	0.75	40.86(=40.86+0.0)	42.99(=42.99+0.0)	46.81(=46.81+0.0)	0.3127	0.329	0.4853
	08,7 _d	0.875	0.875	0.875	83.48	11.93	83.49	11.92	0.875	59.94(=59.94+0.0)	63.07(=63.07+0.0)	68.67(=68.67+0.0)	0.3127	0.329	0.7119
	09,8 _d	1.0	1.0	1.0	95.41	11.93	95.41	11.93	1.0	84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	0.01	95.4	0.01	95.4	0.0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3037	0.3195	0.0
	11,W _d	1.0	1.0	1.0	95.41	95.4	95.41	95.4	0.0	84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0

Calculated colorimetric data (b): Television Luminous Systems TLS06b for CIE lightness $L^*=06$ of black and for illuminant D65

System TLS06b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	5.7	9.87	5.7	11.21	0.0	0.6(=0.0+0.6)	0.63(=0.0+0.63)	0.69(=0.0+0.69)	0.3127	0.329	0.0071
$Y_N = 0.63$	02,1 _d	0.125	0.125	0.125	15.57	10.16	16.91	11.21	0.11	1.92(=1.32+0.6)	2.02(=1.39+0.63)	2.19(=1.51+0.69)	0.3127	0.329	0.0228
$L^*_N = 5.69$	03,2 _d	0.25	0.25	0.25	25.73	11.13	28.13	11.21	0.223	4.42(=3.83+0.6)	4.66(=4.03+0.63)	5.07(=4.38+0.69)	0.3127	0.329	0.0525
	04,3 _d	0.375	0.375	0.375	36.86	11.49	39.34	11.21	0.347	8.99(=8.39+0.6)	9.46(=8.83+0.63)	10.3(=9.62+0.69)	0.3127	0.329	0.1068
	05,4 _d	0.5	0.5	0.5	48.35	11.67	50.56	11.21	0.475	16.22(=15.63+0.6)	17.07(=16.44+0.63)	18.59(=17.9+0.69)	0.3127	0.329	0.1927
	06,5 _d	0.625	0.625	0.625	60.02	11.75	61.77	11.21	0.606	26.75(=26.15+0.6)	28.15(=27.52+0.63)	30.65(=29.96+0.69)	0.3127	0.329	0.3177
	07,6 _d	0.75	0.75	0.75	71.77	11.81	72.98	11.21	0.736	41.17(=40.57+0.6)	43.32(=42.69+0.63)	47.16(=46.48+0.69)	0.3127	0.329	0.4889
	08,7 _d	0.875	0.875	0.875	83.58	11.83	84.2	11.21	0.868	60.12(=59.52+0.6)	63.25(=62.62+0.63)	68.87(=68.18+0.69)	0.3127	0.329	0.714
	09,8 _d	1.0	1.0	1.0	95.41	11.83	95.41	11.21	1.0	84.2(=83.6+0.6)	88.59(=87.96+0.63)	96.46(=95.77+0.69)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	5.7	89.71	5.7	89.71	0.0	0.6(=0.0+0.6)	0.63(=0.0+0.63)	0.69(=0.0+0.69)	0.3127	0.329	0.0071
	11,W _d	1.0	1.0	1.0	95.41	89.71	95.41	89.71	0.0	84.2(=83.6+0.6)	88.59(=87.96+0.63)	96.46(=95.77+0.69)	0.3127	0.329	1.0

CEI60-7N00

Test chart CEI6; 9 grey steps and NW_d for TLS00b, TLS00b & TLS06b
 Calculation of CIE-colour data for sRGB display for 3 reflections

input: *rgb*
 output: *->rgb_{ad}*

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

System TLS00b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{b,d}$	$Y_{b,d}$	$Z_{b,d}$	$x_{b,d}$	$y_{b,d}$	$Y_{b,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	0.01	11.92	0.01	11.93	0.0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
$Y_N = 0.0$	02,1 _d	0.125	0.125	0.125	11.93	11.92	11.94	11.93	0.125	1.33(=1.33+0.0)	1.4(=1.39+0.0)	1.52(=1.52+0.0)	0.3127	0.329	0.0158
$L^*_N = 0.0$	03,2 _d	0.25	0.25	0.25	23.85	11.92	23.86	11.93	0.25	3.85(=3.85+0.0)	4.05(=4.05+0.0)	4.41(=4.41+0.0)	0.3127	0.329	0.0458
	04,3 _d	0.375	0.375	0.375	35.78	11.93	35.79	11.92	0.375	8.45(=8.45+0.0)	8.89(=8.89+0.0)	9.68(=9.68+0.0)	0.3127	0.329	0.1004
	05,4 _d	0.5	0.5	0.5	47.7	11.92	47.71	11.92	0.5	15.74(=15.74+0.0)	16.56(=16.56+0.0)	18.03(=18.03+0.0)	0.3127	0.329	0.1869
	06,5 _d	0.625	0.625	0.625	59.63	11.93	59.64	11.92	0.625	26.34(=26.34+0.0)	27.71(=27.71+0.0)	30.18(=30.17+0.0)	0.3127	0.329	0.3128
	07,6 _d	0.75	0.75	0.75	71.55	11.92	71.56	11.93	0.75	40.86(=40.86+0.0)	42.99(=42.99+0.0)	46.81(=46.81+0.0)	0.3127	0.329	0.4853
	08,7 _d	0.875	0.875	0.875	83.48	11.93	83.49	11.92	0.875	59.94(=59.94+0.0)	63.07(=63.07+0.0)	68.67(=68.67+0.0)	0.3127	0.329	0.7119
	09,8 _d	1.0	1.0	1.0	95.41	11.93	95.41	11.93	1.0	84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	0.01		0.01			0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	11,W _d	1.0	1.0	1.0	95.41	95.4	95.41	95.4		84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0

Calculated colorimetric data (b): Television Luminous Systems TLS11b for CIE lightness $L^*=11$ of black and for illuminant D65

System TLS11b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	11.0		11.0		0.0	1.2(=0.0+1.2)	1.26(=0.0+1.26)	1.37(=0.0+1.37)	0.3127	0.329	0.0142
$Y_N = 1.26$	02,1 _d	0.125	0.125	0.125	18.52	7.52	21.55	10.55	0.089	2.51(=1.31+1.2)	2.64(=1.38+1.26)	2.87(=1.5+1.37)	0.3127	0.329	0.0298
$L^*_N = 11.0$	03,2 _d	0.25	0.25	0.25	27.45	8.93	32.1	10.55	0.195	5.0(=3.8+1.2)	5.26(=4.0+1.26)	5.72(=4.35+1.37)	0.3127	0.329	0.0593
	04,3 _d	0.375	0.375	0.375	37.89	10.44	42.65	10.55	0.319	9.53(=8.33+1.2)	10.03(=8.77+1.26)	10.92(=9.55+1.37)	0.3127	0.329	0.1132
	05,4 _d	0.5	0.5	0.5	48.99	11.1	53.21	10.55	0.45	16.71(=15.51+1.2)	17.58(=16.32+1.26)	19.15(=17.77+1.37)	0.3127	0.329	0.1985
	06,5 _d	0.625	0.625	0.625	60.41	11.42	63.76	10.55	0.585	27.16(=25.97+1.2)	28.58(=27.32+1.26)	31.12(=29.75+1.37)	0.3127	0.329	0.3226
	07,6 _d	0.75	0.75	0.75	71.99	11.58	74.31	10.55	0.723	41.48(=40.28+1.2)	43.64(=42.38+1.26)	47.52(=46.14+1.37)	0.3127	0.329	0.4926
	08,7 _d	0.875	0.875	0.875	83.67	11.68	84.86	10.55	0.861	60.29(=59.09+1.2)	63.43(=62.17+1.26)	69.07(=67.7+1.37)	0.3127	0.329	0.716
	09,8 _d	1.0	1.0	1.0	95.41	11.74	95.41	10.55	1.0	84.2(=83.0+1.2)	88.59(=87.33+1.26)	96.46(=95.09+1.37)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	11.0		11.0			1.2(=0.0+1.2)	1.26(=0.0+1.26)	1.37(=0.0+1.37)	0.3127	0.329	0.0142
	11,W _d	1.0	1.0	1.0	95.41	84.41	95.41	84.41		84.2(=83.0+1.2)	88.59(=87.33+1.26)	96.46(=95.09+1.37)	0.3127	0.329	1.0

Calculated colorimetric data (b): Television Luminous Systems TLS18b for CIE lightness $L^*=18$ of black and for illuminant D65

System TLS18b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	18.01		18.01		0.0	2.4(=0.0+2.4)	2.52(=0.0+2.52)	2.74(=0.0+2.74)	0.3127	0.329	0.0285
$Y_N = 2.52$	02,1 _d	0.125	0.125	0.125	23.26	5.24	27.69	9.67	0.068	3.68(=1.29+2.4)	3.88(=1.36+2.52)	4.22(=1.48+2.74)	0.3127	0.329	0.0438
$L^*_N = 18.01$	03,2 _d	0.25	0.25	0.25	30.54	7.28	37.36	9.67	0.162	6.14(=3.74+2.4)	6.46(=3.94+2.52)	7.03(=4.29+2.74)	0.3127	0.329	0.0729
	04,3 _d	0.375	0.375	0.375	39.85	9.31	47.04	9.67	0.282	10.61(=8.21+2.4)	11.16(=8.64+2.52)	12.15(=9.41+2.74)	0.3127	0.329	0.126
	05,4 _d	0.5	0.5	0.5	50.23	10.37	56.71	9.67	0.416	17.69(=15.29+2.4)	18.61(=16.09+2.52)	20.26(=17.52+2.74)	0.3127	0.329	0.21
	06,5 _d	0.625	0.625	0.625	61.17	10.95	66.39	9.67	0.558	27.99(=25.59+2.4)	29.45(=26.93+2.52)	32.06(=29.32+2.74)	0.3127	0.329	0.3324
	07,6 _d	0.75	0.75	0.75	72.42	11.25	76.06	9.67	0.703	42.09(=39.7+2.4)	44.29(=41.77+2.52)	48.22(=45.48+2.74)	0.3127	0.329	0.4999
	08,7 _d	0.875	0.875	0.875	83.86	11.44	85.74	9.67	0.851	60.63(=58.24+2.4)	63.8(=61.28+2.52)	69.46(=66.72+2.74)	0.3127	0.329	0.7201
	09,8 _d	1.0	1.0	1.0	95.41	11.55	95.41	9.67	1.0	84.2(=81.8+2.4)	88.59(=86.07+2.52)	96.46(=93.72+2.74)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	18.01		18.01			2.4(=0.0+2.4)	2.52(=0.0+2.52)	2.74(=0.0+2.74)	0.3127	0.329	0.0285
	11,W _d	1.0	1.0	1.0	95.41	77.4	95.41	77.4		84.2(=81.8+2.4)	88.59(=86.07+2.52)	96.46(=93.72+2.74)	0.3127	0.329	1.0

CEI60-7N00

Test chart CEI6; 9 grey steps and NW_d for TLS00b, TLS11b & TLS18b
 Calculation of CIE-colour data for sRGB display for 3 reflections

input: *rgb*
 output: *->rgb_{dd}*

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

System TLS00b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	0.01	11.92	0.01	11.93	0.0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
$Y_N = 0.0$	02,1 _d	0.125	0.125	0.125	11.93	11.92	11.94	11.93	0.125	1.33(=1.33+0.0)	1.4(=1.39+0.0)	1.52(=1.52+0.0)	0.3127	0.329	0.0158
$L^*_N = 0.0$	03,2 _d	0.25	0.25	0.25	23.85	11.92	23.86	11.93	0.25	3.85(=3.85+0.0)	4.05(=4.05+0.0)	4.41(=4.41+0.0)	0.3127	0.329	0.0458
	04,3 _d	0.375	0.375	0.375	35.78	11.93	35.79	11.92	0.375	8.45(=8.45+0.0)	8.89(=8.89+0.0)	9.68(=9.68+0.0)	0.3127	0.329	0.1004
	05,4 _d	0.5	0.5	0.5	47.7	11.92	47.71	11.92	0.5	15.74(=15.74+0.0)	16.56(=16.56+0.0)	18.03(=18.03+0.0)	0.3127	0.329	0.1869
	06,5 _d	0.625	0.625	0.625	59.63	11.93	59.64	11.92	0.625	26.34(=26.34+0.0)	27.71(=27.71+0.0)	30.18(=30.17+0.0)	0.3127	0.329	0.3128
	07,6 _d	0.75	0.75	0.75	71.55	11.92	71.56	11.93	0.75	40.86(=40.86+0.0)	42.99(=42.99+0.0)	46.81(=46.81+0.0)	0.3127	0.329	0.4853
	08,7 _d	0.875	0.875	0.875	83.48	11.93	83.49	11.92	0.875	59.94(=59.94+0.0)	63.07(=63.07+0.0)	68.67(=68.67+0.0)	0.3127	0.329	0.7119
	09,8 _d	1.0	1.0	1.0	95.41	11.93	95.41	11.93	1.0	84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	0.01		0.01			0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	11,W _d	1.0	1.0	1.0	95.41	95.4	95.41	95.4		84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0

Calculated colorimetric data (b): Television Luminous Systems TLS27b for CIE lightness $L^*=27$ of black and for illuminant D65

System TLS27b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	26.85		26.85		0.0	4.79(=0.0+4.79)	5.04(=0.0+5.04)	5.49(=0.0+5.49)	0.3127	0.329	0.0569
$Y_N = 5.04$	02,1 _d	0.125	0.125	0.125	30.29	3.44	35.42	8.57	0.05	6.04(=1.25+4.79)	6.36(=1.32+5.04)	6.92(=1.43+5.49)	0.3127	0.329	0.0717
$L^*_N = 26.85$	03,2 _d	0.25	0.25	0.25	35.72	5.43	43.99	8.57	0.129	8.42(=3.63+4.79)	8.86(=3.82+5.04)	9.65(=4.16+5.49)	0.3127	0.329	0.1
	04,3 _d	0.375	0.375	0.375	43.4	7.68	52.56	8.57	0.241	12.76(=7.97+4.79)	13.43(=8.39+5.04)	14.62(=9.13+5.49)	0.3127	0.329	0.1516
	05,4 _d	0.5	0.5	0.5	52.57	9.17	61.13	8.57	0.375	19.63(=14.84+4.79)	20.66(=15.62+5.04)	22.49(=17.0+5.49)	0.3127	0.329	0.2332
	06,5 _d	0.625	0.625	0.625	62.66	10.09	69.7	8.57	0.522	29.63(=24.84+4.79)	31.18(=26.14+5.04)	33.95(=28.46+5.49)	0.3127	0.329	0.3519
	07,6 _d	0.75	0.75	0.75	73.28	10.62	78.27	8.57	0.677	43.33(=38.54+4.79)	45.59(=40.55+5.04)	49.63(=44.15+5.49)	0.3127	0.329	0.5146
	08,7 _d	0.875	0.875	0.875	84.24	10.96	86.84	8.57	0.837	61.32(=56.53+4.79)	64.52(=59.48+5.04)	70.25(=64.77+5.49)	0.3127	0.329	0.7283
	09,8 _d	1.0	1.0	1.0	95.41	11.17	95.41	8.57	1.0	84.2(=79.41+4.79)	88.59(=83.55+5.04)	96.46(=90.97+5.49)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	26.85		26.85			4.79(=0.0+4.79)	5.04(=0.0+5.04)	5.49(=0.0+5.49)	0.3127	0.329	0.0569
	11,W _d	1.0	1.0	1.0	95.41	68.56	95.41	68.56		84.2(=79.41+4.79)	88.59(=83.55+5.04)	96.46(=90.97+5.49)	0.3127	0.329	1.0

Calculated colorimetric data (b): Television Luminous Systems TLS38b for CIE lightness $L^*=38$ of black and for illuminant D65

System TLS38b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	37.99		37.99		0.0	9.58(=0.0+9.58)	10.08(=0.0+10.08)	10.98(=0.0+10.98)	0.3127	0.329	0.1138
$Y_N = 10.08$	02,1 _d	0.125	0.125	0.125	40.11	2.12	45.17	7.18	0.037	10.76(=1.18+9.58)	11.32(=1.24+10.08)	12.32(=1.35+10.98)	0.3127	0.329	0.1277
$L^*_N = 37.99$	03,2 _d	0.25	0.25	0.25	43.76	3.65	52.34	7.18	0.101	12.99(=3.41+9.58)	13.67(=3.59+10.08)	14.89(=3.91+10.98)	0.3127	0.329	0.1543
	04,3 _d	0.375	0.375	0.375	49.45	5.69	59.52	7.18	0.2	17.07(=7.49+9.58)	17.96(=7.88+10.08)	19.56(=8.58+10.98)	0.3127	0.329	0.2028
	05,4 _d	0.5	0.5	0.5	56.84	7.39	66.7	7.18	0.328	23.53(=13.95+9.58)	24.76(=14.68+10.08)	26.95(=15.98+10.98)	0.3127	0.329	0.2794
	06,5 _d	0.625	0.625	0.625	65.47	8.63	73.88	7.18	0.479	32.92(=23.34+9.58)	34.64(=24.56+10.08)	37.72(=26.74+10.98)	0.3127	0.329	0.391
	07,6 _d	0.75	0.75	0.75	74.94	9.47	81.05	7.18	0.644	45.79(=36.21+9.58)	48.18(=38.1+10.08)	52.46(=41.48+10.98)	0.3127	0.329	0.5438
	08,7 _d	0.875	0.875	0.875	84.98	10.04	88.23	7.18	0.818	62.7(=53.12+9.58)	65.98(=55.9+10.08)	71.83(=60.86+10.98)	0.3127	0.329	0.7447
	09,8 _d	1.0	1.0	1.0	95.41	10.43	95.41	7.18	1.0	84.2(=74.62+9.58)	88.59(=78.51+10.08)	96.46(=85.48+10.98)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	37.99		37.99			9.58(=0.0+9.58)	10.08(=0.0+10.08)	10.98(=0.0+10.98)	0.3127	0.329	0.1138
	11,W _d	1.0	1.0	1.0	95.41	57.42	95.41	57.42		84.2(=74.62+9.58)	88.59(=78.51+10.08)	96.46(=85.48+10.98)	0.3127	0.329	1.0

CEI60-7N00

Test chart CEI6; 9 grey steps and NW_d for TLS00b, TLS27b & TLS38b
 Calculation of CIE-colour data for sRGB display for 3 reflections

input: *rgb*
 output: *->rgb_{dd}*

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

System TLS00b	Color i	r^*_d	g^*_d	b^*_d	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{b,d}$	$Y_{b,d}$	$Z_{b,d}$	$x_{b,d}$	$y_{b,d}$	$Y_{b,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	0.01	11.92	0.01	11.93	0.0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
$Y_N = 0.0$	02,1 _d	0.125	0.125	0.125	11.93	11.92	11.94	11.93	0.125	1.33(=1.33+0.0)	1.4(=1.39+0.0)	1.52(=1.52+0.0)	0.3127	0.329	0.0158
$L^*_N = 0.0$	03,2 _d	0.25	0.25	0.25	23.85	11.92	23.86	11.93	0.25	3.85(=3.85+0.0)	4.05(=4.05+0.0)	4.41(=4.41+0.0)	0.3127	0.329	0.0458
	04,3 _d	0.375	0.375	0.375	35.78	11.93	35.79	11.92	0.375	8.45(=8.45+0.0)	8.89(=8.89+0.0)	9.68(=9.68+0.0)	0.3127	0.329	0.1004
	05,4 _d	0.5	0.5	0.5	47.7	11.92	47.71	11.92	0.5	15.74(=15.74+0.0)	16.56(=16.56+0.0)	18.03(=18.03+0.0)	0.3127	0.329	0.1869
	06,5 _d	0.625	0.625	0.625	59.63	11.93	59.64	11.92	0.625	26.34(=26.34+0.0)	27.71(=27.71+0.0)	30.18(=30.17+0.0)	0.3127	0.329	0.3128
	07,6 _d	0.75	0.75	0.75	71.55	11.92	71.56	11.93	0.75	40.86(=40.86+0.0)	42.99(=42.99+0.0)	46.81(=46.81+0.0)	0.3127	0.329	0.4853
	08,7 _d	0.875	0.875	0.875	83.48	11.93	83.49	11.92	0.875	59.94(=59.94+0.0)	63.07(=63.07+0.0)	68.67(=68.67+0.0)	0.3127	0.329	0.7119
	09,8 _d	1.0	1.0	1.0	95.41	11.93	95.41	11.93	1.0	84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	0.01		0.01			0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
	11,W _d	1.0	1.0	1.0	95.41	95.4	95.41	95.4		84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0

Calculated colorimetric data (b): Television Luminous Systems TLS52b for CIE lightness $L^*=52$ of black and for illuminant D65

System TLS52b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	52.02		52.02		0.0	19.16(=0.0+19.16)	20.16(=0.0+20.16)	21.95(=0.0+21.95)	0.3127	0.329	0.2276
$Y_N = 20.16$	02,1 _d	0.125	0.125	0.125	53.21	1.19	57.44	5.42	0.027	20.18(=1.02+19.16)	21.24(=1.08+20.16)	23.12(=1.17+21.95)	0.3127	0.329	0.2397
$L^*_N = 52.02$	03,2 _d	0.25	0.25	0.25	55.37	2.16	62.87	5.42	0.077	22.14(=2.98+19.16)	23.29(=3.13+20.16)	25.36(=3.41+21.95)	0.3127	0.329	0.2629
	04,3 _d	0.375	0.375	0.375	59.0	3.63	68.29	5.42	0.161	25.69(=6.53+19.16)	27.03(=7.48+20.16)	29.43(=7.48+21.95)	0.3127	0.329	0.3051
	05,4 _d	0.5	0.5	0.5	64.12	5.12	73.71	5.42	0.279	31.32(=12.16+19.16)	32.95(=12.79+20.16)	35.88(=13.93+21.95)	0.3127	0.329	0.3719
	06,5 _d	0.625	0.625	0.625	70.57	6.45	79.14	5.42	0.428	39.51(=20.35+19.16)	41.57(=21.41+20.16)	45.26(=23.31+21.95)	0.3127	0.329	0.4692
	07,6 _d	0.75	0.75	0.75	78.09	7.52	84.56	5.42	0.601	50.72(=31.56+19.16)	53.37(=33.21+20.16)	58.11(=36.16+21.95)	0.3127	0.329	0.6024
	08,7 _d	0.875	0.875	0.875	86.44	8.35	89.99	5.42	0.793	65.46(=46.3+19.16)	68.88(=48.72+20.16)	75.0(=53.05+21.95)	0.3127	0.329	0.7775
	09,8 _d	1.0	1.0	1.0	95.41	8.97	95.41	5.42	1.0	84.2(=65.04+19.16)	88.59(=68.43+20.16)	96.46(=74.51+21.95)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	52.02		52.02			19.16(=0.0+19.16)	20.16(=0.0+20.16)	21.95(=0.0+21.95)	0.3127	0.329	0.2276
	11,W _d	1.0	1.0	1.0	95.41	43.39	95.41	43.39		84.2(=65.04+19.16)	88.59(=68.43+20.16)	96.46(=74.51+21.95)	0.3127	0.329	1.0

Calculated colorimetric data (b): Television Luminous Systems TLS70b for CIE lightness $L^*=70$ of black and for illuminant D65

System TLS70b	Color i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	01,0 _d	0.0	0.0	0.0	69.7		69.7		0.0	38.32(=0.0+38.32)	40.32(=0.0+40.32)	43.9(=0.0+43.9)	0.3127	0.329	0.4551
$Y_N = 40.32$	02,1 _d	0.125	0.125	0.125	70.23	0.54	72.91	3.21	0.021	39.04(=0.72+38.32)	41.08(=0.76+40.32)	44.73(=0.83+43.9)	0.3127	0.329	0.4637
$L^*_N = 69.7$	03,2 _d	0.25	0.25	0.25	71.23	1.0	76.13	3.21	0.06	40.42(=2.1+38.32)	42.53(=2.21+40.32)	46.31(=2.41+43.9)	0.3127	0.329	0.4801
	04,3 _d	0.375	0.375	0.375	73.0	1.77	79.34	3.21	0.128	42.93(=4.61+38.32)	45.17(=4.85+40.32)	49.18(=5.28+43.9)	0.3127	0.329	0.5098
	05,4 _d	0.5	0.5	0.5	75.66	2.66	82.55	3.21	0.232	46.9(=8.58+38.32)	49.34(=9.02+40.32)	53.72(=9.82+43.9)	0.3127	0.329	0.557
	06,5 _d	0.625	0.625	0.625	79.28	3.62	85.77	3.21	0.373	52.67(=14.35+38.32)	55.42(=15.1+40.32)	60.34(=16.44+43.9)	0.3127	0.329	0.6256
	07,6 _d	0.75	0.75	0.75	83.83	4.55	88.98	3.21	0.55	60.58(=22.26+38.32)	63.75(=23.43+40.32)	69.41(=25.51+43.9)	0.3127	0.329	0.7195
	08,7 _d	0.875	0.875	0.875	89.25	5.41	92.2	3.21	0.76	70.98(=32.66+38.32)	74.69(=34.37+40.32)	81.32(=37.42+43.9)	0.3127	0.329	0.843
	09,8 _d	1.0	1.0	1.0	95.41	6.16	95.41	3.21	1.0	84.2(=45.88+38.32)	88.59(=48.27+40.32)	96.46(=52.56+43.9)	0.3127	0.329	1.0
	10,N _d	0.0	0.0	0.0	69.7		69.7			38.32(=0.0+38.32)	40.32(=0.0+40.32)	43.9(=0.0+43.9)	0.3127	0.329	0.4551
	11,W _d	1.0	1.0	1.0	95.41	25.71	95.41	25.71		84.2(=45.88+38.32)	88.59(=48.27+40.32)	96.46(=52.56+43.9)	0.3127	0.329	1.0

CEI60-7N00

Test chart CEI6; 9 grey steps and NW_d for TLS00b, TLS52b & TLS70b
 Calculation of CIE-colour data for sRGB display for 3 reflections

input: *rgb*
 output: *->rgbdd*