

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

System TLS00b	Color i	r^*_{ad}	g^*_{ad}	b^*_{ad}	$L^*_{re,d}$	$\Delta L^*_{re,d}$	L^*_{id}	ΔL^*_{id}	w_d	$x_{d,d}$	$y_{d,d}$	$z_{d,d}$	$x_{b,d}$	$y_{b,d}$	$y_{b,d}/88.59$
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
	$02,1_d$	0.125	0.125	0.125	11.93	11.94	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
	$03,2_d$	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
$Y_N = 0.0$	$04,3_d$	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
$L^*_N = 0.0$	$05,4_d$	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	11.93	71.56	11.92	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	95.4	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	0.01	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	95.4	95.4	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

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

D65 reflection:	Color i	r^*_{ad}	g^*_{ad}	b^*_{ad}	$L^*_{re,d}$	$\Delta L^*_{re,d}$	L^*_{id}	ΔL^*_{id}	w_d	$x_{d,d}$	$y_{d,d}$	$z_{d,d}$	$x_{b,d}$	$y_{b,d}$	$y_{b,d}/88.59$
$Y_N = 2.52$	$01,0_d$	0.0	0.0	0.0	18.01	5.24	18.01	5.24	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
$L^*_N = 18.01$	$02,1_d$	0.125	0.125	0.125	23.26	5.28	23.26	5.28	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
	$03,2_d$	0.25	0.25	0.25	30.54	7.28	30.54	7.28	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	39.85	9.31	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	50.23	10.37	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	11.25	61.17	11.25	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	11.44	72.42	11.44	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	11.55	83.86	11.55	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	11.55	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	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
	$11,W_d$	1.0	1.0	1.0	95.41	77.4	95.41	77.4	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

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

D65 reflection:	Color i	r^*_{ad}	g^*_{ad}	b^*_{ad}	$L^*_{re,d}$	$\Delta L^*_{re,d}$	L^*_{id}	ΔL^*_{id}	w_d	$x_{d,d}$	$y_{d,d}$	$z_{d,d}$	$x_{b,d}$	$y_{b,d}$	$y_{b,d}/88.59$
$Y_N = 40.32$	$01,0_d$	0.0	0.0	0.0	69.7	0.54	69.7	0.54	0.021	38.32(-0.0+38.32)	40.32(-0.0+40.32)	43.9(-0.0+43.9)	0.3127	0.329	0.4551
$L^*_N = 69.7$	$02,1_d$	0.125	0.125	0.125	70.23	1.0	70.23	1.0	0.021	39.04(-0.72+38.32)	41.08(-0.76+38.32)	44.73(-0.83+43.9)	0.3127	0.329	0.4637
	$03,2_d$	0.25	0.25	0.25	71.23	1.0	71.23	1.0	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	73.0	1.77	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	75.66	2.66	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	4.55	79.28	4.55	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	88.98	83.83	88.98	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	89.25	5.41	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	6.16	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	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
	$11,W_d$	1.0	1.0	1.0	95.41	25.71	95.41	25.71	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

CEI80-7N00

Test chart CEI8; 9 grey steps and NWd for TLS00, TLS00a & TLS00b
Calculation of CIE-colour data for sRGB display for 3 reflections

input: rgb
output: > > > rbgbd