

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_{*ad}^*	a_{*ad}^*	b_{*ad}^*	$C_{*ab,d}^*$	$h_{ab,d}$	x_{ad}	y_{ad}	z_{ad}	x_{ad}	y_{ad}	$y_{100}/88.59$
	$01,0_d$	0.0	0.0	0.0	0.01	0.0	0.0	0.01	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	0.0	0.0	0.01	0	1.33(-1.33+0.0)	1.4(-1.39+0.0)	1.52(-1.52+0.0)	0.3127	0.329	0.0158
D65 reflection:	$03,2_d$	0.25	0.25	0.25	23.85	0.0	0.0	0.01	0	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	0.0	0.0	0.01	0	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	0.0	0.0	0.01	0	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	0.0	0.0	0.01	0	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	0.0	0.0	0.01	0	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	0.0	0.0	0.01	0	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	0.0	0.0	0.01	0	84.24(-84.24+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	0.0	0.0	0.01	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	0.0	0.0	0.01	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_{*ad}^*	a_{*ad}^*	b_{*ad}^*	$C_{*ab,d}^*$	$h_{ab,d}$	x_{ad}	y_{ad}	z_{ad}	x_{ad}	y_{ad}	$y_{100}/88.59$
	$01,0_d$	0.0	0.0	0.0	18.01	0.0	0.0	0.0	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
	$02,1_d$	0.125	0.125	0.125	23.26	0.0	0.0	0.0	0	3.68(-1.29+2.4)	3.88(-1.36+2.52)	4.22(-1.48+2.74)	0.3127	0.329	0.0438
$Y_N = 2.52$	$03,2_d$	0.25	0.25	0.25	30.54	0.0	0.0	0.0	0	6.14(-3.74+2.4)	6.46(-3.94+2.52)	7.03(-4.29+2.74)	0.3127	0.329	0.0729
$L^*_N = 18.01$	$04,3_d$	0.375	0.375	0.375	39.85	0.0	0.0	0.0	3	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	0.0	0.0	0.0	0	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	0.0	0.0	0.0	7	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	0.0	0.0	0.0	0	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	0.0	0.0	0.0	0	60.63(-58.34+2.4)	63.8(-61.28+2.52)	68.46(-66.72+2.74)	0.3127	0.329	0.7201
	$09,8_d$	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2(-81.8+2.4)	88.59(-86.07+2.52)	96.46(-93.73+2.74)	0.3127	0.329	1.0
	$10,N_d$	0.0	0.0	0.0	18.01	0.0	0.0	0.0	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	0.0	0.0	0.0	0	84.2(-81.8+2.4)	88.59(-86.07+2.52)	96.46(-93.73+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_{*ad}^*	a_{*ad}^*	b_{*ad}^*	$C_{*ab,d}^*$	$h_{ab,d}$	x_{ad}	y_{ad}	z_{ad}	x_{ad}	y_{ad}	$y_{100}/88.59$
	$01,0_d$	0.0	0.0	0.0	69.7	0.0	0.0	0.0	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
	$02,1_d$	0.125	0.125	0.125	70.23	0.0	0.0	0.0	0	39.04(-0.72+38.32)	41.08(-0.76+40.32)	44.73(-0.83+43.9)	0.3127	0.329	0.4637
$Y_N = 40.32$	$03,2_d$	0.25	0.25	0.25	71.23	0.0	0.0	0.0	0	40.42(-2.1+38.32)	42.53(-2.21+40.32)	46.31(-2.41+43.9)	0.3127	0.329	0.4801
$L^*_N = 69.7$	$04,3_d$	0.375	0.375	0.375	73.0	0.0	0.0	0.0	0	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	0.0	0.0	0.0	0	46.9(-6.58+38.32)	49.34(-6.02+40.32)	53.72(-6.82+43.9)	0.3127	0.329	0.557
	$06,5_d$	0.625	0.625	0.625	79.28	0.0	0.0	0.0	0	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	0.0	0.0	0.0	10	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	0.0	0.0	0.0	353	70.96(-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	0.0	0.0	0.0	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	0.0	0.0	0.0	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	0.0	0.0	0.0	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

CEI40-7N00

Test chart CEI4; 9 grey steps and NW_d for TLS00, TLS00a & TLS00b
Calculation of CIE-colour data for sRGB display for 3 reflections

input: rgb
output: >>rgb_{ad}