

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^*_{red}	ΔL^*_{red}	L^*_{itd}	ΔL^*_{itd}	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	11.93	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	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^*_{red}	ΔL^*_{red}	L^*_{itd}	ΔL^*_{itd}	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	11.93	71.56	11.92	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	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^*_{red}	ΔL^*_{red}	L^*_{itd}	ΔL^*_{itd}	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)	0.0(-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	11.93	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	11.92	59.64	11.93	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	95.41	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(-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: ->rgb_{ad}