

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^*_d	$a^*_{a,d}$	$b^*_{a,d}$	$C^*_{a,b,d}$	$h_{a,b,d}$	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
D65 reflection:	R_d	1.0	0.0	0.0	50.5	76.92	64.55	100.42	40	36.54(=36.53+0.0)	18.84(=18.84+0.0)	1.71(=1.71+0.0)	0.64	0.33	0.2127
	Y_d	1.0	1.0	0.0	92.66	-20.69	90.75	93.08	103	68.21(=68.21+0.0)	82.19(=82.19+0.0)	12.27(=12.27+0.0)	0.4193	0.5053	0.9278
	G_d	0.0	1.0	0.0	83.63	-82.75	79.9	115.04	136	31.68(=31.68+0.0)	63.36(=63.36+0.0)	10.56(=10.55+0.0)	0.3	0.6	0.7152
	C_d	0.0	1.0	1.0	86.88	-46.16	-13.55	48.12	196	47.67(=47.67+0.0)	69.76(=69.76+0.0)	94.74(=94.74+0.0)	0.2247	0.3288	0.7874
	B_d	0.0	0.0	1.0	30.39	76.06	-103.59	128.52	306	15.99(=15.99+0.0)	6.4(=6.39+0.0)	84.21(=84.21+0.0)	0.15	0.06	0.0722
	M_d	1.0	0.0	1.0	57.3	94.35	-58.41	110.97	328	52.52(=52.52+0.0)	25.23(=25.23+0.0)	85.89(=85.89+0.0)	0.3209	0.1542	0.2848
	R_d	1.0	0.0	0.0	50.5	76.92	64.55	100.42	40	36.54(=36.53+0.0)	18.84(=18.84+0.0)	1.71(=1.71+0.0)	0.64	0.33	0.2127
	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	0.10
	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	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	L^*_d	$a^*_{a,d}$	$b^*_{a,d}$	$C^*_{a,b,d}$	$h_{a,b,d}$	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
	R_d	1.0	0.0	0.0	52.76	71.63	49.88	87.29	35	37.89(=35.5+2.4)	20.82(=18.3+2.52)	4.41(=1.66+2.74)	0.6003	0.3299	0.2351
	Y_d	1.0	1.0	0.0	92.74	-20.04	84.97	87.31	103	68.66(=66.27+2.4)	82.38(=79.86+2.52)	14.66(=11.92+2.74)	0.4144	0.4971	0.9298
	G_d	0.0	1.0	0.0	84.0	-79.0	73.94	108.21	137	33.17(=30.78+2.4)	64.08(=61.56+2.52)	13.0(=10.25+2.74)	0.3009	0.5812	0.7233
	C_d	0.0	1.0	1.0	87.14	-44.43	-13.13	46.34	196	48.71(=46.32+2.4)	70.3(=67.78+2.52)	94.79(=92.05+2.74)	0.2278	0.3288	0.7935
	B_d	0.0	0.0	1.0	35.47	64.92	-95.09	115.14	304	17.93(=15.53+2.4)	8.73(=6.21+2.52)	84.56(=81.81+2.74)	0.1612	0.0785	0.0986
	M_d	1.0	0.0	1.0	59.01	89.33	-55.69	105.27	328	53.42(=51.02+2.4)	27.03(=24.51+2.52)	86.19(=83.45+2.74)	0.3205	0.1622	0.3051
	R_d	1.0	0.0	0.0	52.76	71.63	49.88	87.29	35	37.89(=35.5+2.4)	20.82(=18.3+2.52)	4.41(=1.66+2.74)	0.6003	0.3299	0.2351
	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
	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(=93.72+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	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	L^*_d	$a^*_{a,d}$	$b^*_{a,d}$	$C^*_{a,b,d}$	$h_{a,b,d}$	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}/88.59$
	R_d	1.0	0.0	0.0	76.43	26.27	10.57	28.31	22	58.23(=19.91+38.32)	50.59(=10.27+40.32)	44.83(=0.93+43.9)	0.379	0.3292	0.571
	Y_d	1.0	1.0	0.0	93.93	-10.77	34.63	36.27	107	75.49(=37.17+38.32)	85.11(=44.79+40.32)	50.58(=6.68+43.9)	0.3575	0.403	0.9606
	G_d	0.0	1.0	0.0	89.32	-35.82	27.64	45.25	142	55.58(=17.26+38.32)	74.84(=34.52+40.32)	49.65(=5.75+43.9)	0.3087	0.4156	0.8448
	C_d	0.0	1.0	1.0	90.93	-21.97	-7.09	23.1	198	64.3(=25.98+38.32)	78.33(=38.01+40.32)	95.52(=51.62+43.9)	0.27	0.3289	0.8842
	B_d	0.0	0.0	1.0	72.1	15.75	-35.65	38.98	294	47.03(=8.71+38.32)	43.81(=3.49+40.32)	89.78(=45.88+43.9)	0.2604	0.2425	0.4945
	M_d	1.0	0.0	1.0	78.5	37.52	-25.24	45.23	326	66.94(=28.62+38.32)	54.07(=13.75+40.32)	90.7(=46.8+43.9)	0.3162	0.2554	0.6103
	R_d	1.0	0.0	0.0	76.43	26.27	10.57	28.31	22	58.23(=19.91+38.32)	50.59(=10.27+40.32)	44.83(=0.93+43.9)	0.379	0.3292	0.571
	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
	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

CEI10-7N00

Test chart CEI1; 8 basic colors $RYGCBMWN_d$ for TLS00, TLS00a & TLS00b
Calculation of CIE-colour data for sRGB display for 3 reflections

input: rgb
output: $>rgb_{dd}$