

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

System TLS00	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.23	34	52.94	36.37	55.29	36.99	0.67	0.5948	0.398	0.4175
L^*ABCh_{AB}	Y_d	1.0	1.0	0.0	88.28	71.68	92	-2.93	71.62	67.94	72.65	1.13	0.4794	0.5127	0.82
D65 reflection:	C_d	0.0	1.0	0.0	80.67	100.17	153	-89.14	45.67	21.11	57.87	13.29	0.2288	0.6272	0.6532
$Y_N = 0.01$	C_d	0.0	1.0	1.0	77.04	64.24	214	-52.95	-36.35	28.91	51.6	95.79	0.164	0.2927	0.5824
$L^*_d = 0.08$	B_d	0.0	0.0	1.0	46.89	71.67	272	2.94	-71.6	16.27	15.94	95.34	0.1275	0.125	0.1799
Normalization:	M_d	1.0	0.0	1.0	62.27	100.14	333	89.13	-45.65	63.08	30.72	83.18	0.3564	0.1736	0.3467
white $Y_W=89$	$N0_d$	0.0	0.0	0.0	0.08	0.0	0	0.0	0.0	0.01	0.01	0.01	0.3321	0.3321	0.0001
	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21	88.6	96.49	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.08	0.0	0	0.0	0.0	0.01	0.01	0.01	0.3321	0.3321	0.0001
	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06	100.01	108.3	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.1	83	0.01	0.1	17.11	17.99	19.49	0.3134	0.3296	0.2031

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

System TLS00a	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.23	34	52.94	36.37	55.29	36.99	0.67	0.5948	0.398	0.4175
L^*ABCh_{AB}	Y_d	1.0	1.0	0.0	88.28	71.68	92	-2.93	71.62	67.94	72.65	1.13	0.4794	0.5127	0.82
D65 reflection:	C_d	0.0	1.0	0.0	80.67	100.17	153	-89.14	45.67	21.11	57.87	13.29	0.2288	0.6272	0.6532
$Y_N = 0.01$	C_d	0.0	1.0	1.0	77.04	64.24	214	-52.95	-36.35	28.91	51.6	95.79	0.164	0.2927	0.5824
$L^*_d = 0.08$	B_d	0.0	0.0	1.0	46.89	71.67	272	2.94	-71.6	16.27	15.94	95.34	0.1275	0.125	0.1799
Normalization:	M_d	1.0	0.0	1.0	62.27	100.14	333	89.13	-45.65	63.08	30.72	83.18	0.3564	0.1736	0.3467
white $Y_W=89$	$N0_d$	0.0	0.0	0.0	0.08	0.0	0	0.0	0.0	0.01	0.01	0.01	0.3321	0.3321	0.0001
	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21	88.6	96.49	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.08	0.0	0	0.0	0.0	0.01	0.01	0.01	0.3321	0.3321	0.0001
	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06	100.01	108.3	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.1	83	0.01	0.1	17.11	17.99	19.49	0.3134	0.3296	0.2031

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

System TLS00b	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.23	34	52.94	36.37	55.29(=55.28+0.01)	36.99(=36.98+0.01)	0.67(=0.66+0.01)	0.552864	0.369905	0.4175
L^*ABCh_{AB}	Y_d	1.0	1.0	0.0	88.28	71.68	92	-2.93	71.62	67.94(=67.93+0.01)	72.65(=72.64+0.01)	1.13(=1.11+0.01)	0.679385	0.72652	0.82
D65 reflection:	C_d	0.0	1.0	0.0	80.67	100.17	153	-89.14	45.67	21.11(=21.1+0.01)	57.87(=57.86+0.01)	13.29(=13.28+0.01)	0.211134	0.578735	0.6532
$Y_N = 0.0$	C_d	0.0	1.0	1.0	77.04	64.24	214	-52.95	-36.35	28.91(=28.9+0.01)	51.6(=51.59+0.01)	95.79(=95.78+0.01)	0.289102	0.516006	0.5824
$L^*_d = 0.0$	B_d	0.0	0.0	1.0	46.89	71.67	272	2.94	-71.6	16.27(=16.26+0.01)	15.94(=15.93+0.01)	95.34(=95.33+0.01)	0.16267	0.159391	0.1799
Normalization:	M_d	1.0	0.0	1.0	62.27	100.14	333	89.13	-45.65	63.08(=63.07+0.01)	30.72(=30.71+0.01)	83.18(=83.17+0.01)	0.630832	0.307176	0.3467
white $Y_W=89$	$N0_d$	0.0	0.0	0.0	0.08	0.0	0	0.0	0.0	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.00089	0.00089	0.0001
	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=84.2+0.01)	88.6(=88.59+0.01)	96.49(=96.47+0.01)	0.842143	0.886	1.0
	$N1_d$	0.0	0.0	0.0	0.08	0.0	0	0.0	0.0	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.00089	0.00089	0.0001
	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=95.05+0.01)	100.01(=100.0+0.01)	108.3(=108.29+0.01)	0.950589	100.012	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.1	83	0.01	0.1	17.11(=17.1+0.01)	17.99(=17.98+0.01)	19.49(=19.48+0.01)	0.171087	0.179947	0.2031

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

System TLS00b	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.23	34	52.94	36.37	55.29(=55.29+0.01)	36.99(=36.98+0.01)	0.67(=0.66+0.01)	0.5948	0.398	0.4175
	Y_d	1.0	1.0	0.0	88.28	71.68	92	-2.93	71.62	67.94(=67.93+0.01)	72.65(=72.64+0.01)	1.13(=1.11+0.01)	0.4794	0.5127	0.82
L^*ABCh_{AB}	G_d	0.0	1.0	0.0	80.67	100.17	153	-89.14	45.67	21.12(=21.1+0.01)	57.87(=57.86+0.01)	13.29(=13.28+0.01)	0.2288	0.6272	0.6532
D65 reflection:	C_d	0.0	0.0	1.0	77.04	64.24	214	-52.95	-36.35	28.91(=28.9+0.01)	51.6(=51.59+0.01)	95.79(=95.78+0.01)	0.164	0.2927	0.5824
	B_d	0.0	1.0	0.0	46.89	71.67	272	2.94	-71.6	16.27(=16.26+0.01)	15.94(=15.93+0.01)	95.34(=95.33+0.01)	0.1275	0.125	0.1799
$Y_N = 0.0$	M_d	1.0	0.0	1.0	62.27	100.14	333	89.13	-45.65	63.08(=63.07+0.01)	30.72(=30.71+0.01)	83.18(=83.17+0.01)	0.3564	0.1736	0.3467
$L^*_N = 0.0$	$N0_d$	0.0	0.0	0.0	0.08	0.0	0	0.0	0.0	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.3321	0.3321	0.0001
Normalization:	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=84.2+0.01)	88.6(=88.59+0.01)	96.49(=96.47+0.01)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.08	0.0	0	0.0	0.0	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.3321	0.3321	0.0001
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=95.05+0.01)	100.01(=100.0+0.01)	108.3(=108.29+0.01)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.1	83	0.01	0.1	17.11(=17.1+0.01)	17.99(=17.98+0.01)	19.49(=19.48+0.01)	0.3134	0.3296	0.2031

Calculated colorimetric data: Television Luminous Systems TLSxxa for CIE lightness $L^*=00, 06, 11, 18$ of black and for CIE standard illuminant D65

System TLS00a	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.22	34	52.93	36.37	55.29(=55.29+0.0)	37.0(=37.0+0.0)	0.68(=0.68+0.0)	0.5947	0.3979	0.4176
	Y_d	1.0	1.0	0.0	88.28	71.67	92	-2.93	71.61	67.94(=67.94+0.0)	72.65(=72.65+0.0)	1.14(=1.14+0.0)	0.4794	0.5126	0.82
L^*ABCh_{AB}	G_d	0.0	1.0	0.0	80.67	100.16	153	-89.13	45.67	21.12(=21.12+0.0)	57.88(=57.88+0.0)	13.3(=13.3+0.0)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	0.0	1.0	77.04	64.24	214	-52.95	-36.35	28.92(=28.92+0.0)	51.6(=51.6+0.0)	95.79(=95.79+0.0)	0.164	0.2927	0.5824
	B_d	0.0	0.0	1.0	46.91	71.66	272	2.94	-71.59	16.28(=16.28+0.0)	15.95(=15.95+0.0)	95.34(=95.34+0.0)	0.1276	0.125	0.18
$Y_N = 0.0$	M_d	1.0	0.0	1.0	62.27	100.13	333	89.12	-45.65	63.09(=63.09+0.0)	30.72(=30.72+0.0)	83.18(=83.18+0.0)	0.3564	0.1736	0.3468
$L^*_N = 0.0$	$N0_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.3327	0.3327	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=84.21+0.0)	88.6(=88.6+0.0)	96.49(=96.49+0.0)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.3327	0.3327	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=95.06+0.0)	100.01(=100.01+0.0)	108.3(=108.3+0.0)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.5	0.1	82	0.01	0.1	17.12(=17.12+0.0)	18.0(=18.0+0.0)	19.5(=19.5+0.0)	0.3134	0.3296	0.2032
System TLS06a	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.22	34	52.93	36.37	55.29(=54.69+0.6)	37.0(=36.37+0.63)	0.68(=0.0+0.69)	0.5947	0.3979	0.4176
	Y_d	1.0	1.0	0.0	88.28	71.67	92	-2.93	71.61	67.94(=67.34+0.6)	72.65(=72.02+0.63)	1.14(=0.45+0.69)	0.4794	0.5126	0.82
L^*ABCh_{AB}	G_d	0.0	1.0	0.0	80.67	100.16	153	-89.13	45.67	21.12(=20.52+0.6)	57.88(=57.25+0.63)	13.3(=12.61+0.69)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	0.0	1.0	77.04	64.24	214	-52.95	-36.35	28.92(=28.32+0.6)	51.6(=50.97+0.63)	95.79(=95.11+0.69)	0.164	0.2927	0.5824
	B_d	0.0	0.0	1.0	46.91	71.66	272	2.94	-71.59	16.28(=15.68+0.6)	15.95(=15.32+0.63)	95.34(=94.66+0.69)	0.1276	0.125	0.18
$Y_N = 0.63$	M_d	1.0	0.0	1.0	62.27	100.13	333	89.12	-45.65	63.09(=62.49+0.6)	30.72(=30.09+0.63)	83.18(=82.49+0.69)	0.3564	0.1736	0.3468
$L^*_N = 5.69$	$N0_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=0.0+0.63)	0.02(=0.0+0.63)	0.02(=0.0+0.63)	0.3327	0.3327	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=83.62+0.6)	88.6(=87.97+0.63)	96.49(=95.8+0.69)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=0.0+0.63)	0.02(=0.0+0.63)	0.02(=0.0+0.63)	0.3327	0.3327	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=94.46+0.6)	100.01(=99.38+0.63)	108.3(=107.62+0.69)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.5	0.1	82	0.01	0.1	17.12(=16.52+0.6)	18.0(=17.37+0.63)	19.5(=18.81+0.69)	0.3134	0.3296	0.2032
System TLS11a	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.22	34	52.93	36.37	55.29(=54.09+1.2)	37.0(=35.74+1.26)	0.68(=0.0+1.37)	0.5947	0.3979	0.4176
	Y_d	1.0	1.0	0.0	88.28	71.67	92	-2.93	71.61	67.94(=66.74+1.2)	72.65(=71.39+1.26)	1.14(=0.23+1.37)	0.4794	0.5126	0.82
L^*ABCh_{AB}	G_d	0.0	1.0	0.0	80.67	100.16	153	-89.13	45.67	21.12(=19.92+1.2)	57.88(=56.62+1.26)	13.3(=11.93+1.37)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	0.0	1.0	77.04	64.24	214	-52.95	-36.35	28.92(=27.72+1.2)	51.6(=50.34+1.26)	95.79(=94.42+1.37)	0.164	0.2927	0.5824
	B_d	0.0	0.0	1.0	46.91	71.66	272	2.94	-71.59	16.28(=15.08+1.2)	15.95(=14.69+1.26)	95.34(=93.97+1.37)	0.1276	0.125	0.18
$Y_N = 1.26$	M_d	1.0	0.0	1.0	62.27	100.13	333	89.12	-45.65	63.09(=61.89+1.2)	30.72(=29.46+1.26)	83.18(=81.81+1.37)	0.3564	0.1736	0.3468
$L^*_N = 11.0$	$N0_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=0.0+1.2)	0.02(=0.0+1.2)	0.02(=0.0+1.37)	0.3327	0.3327	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=83.02+1.2)	88.6(=87.34+1.26)	96.49(=95.11+1.37)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=0.0+1.2)	0.02(=0.0+1.2)	0.02(=0.0+1.37)	0.3327	0.3327	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=93.86+1.2)	100.01(=98.75+1.26)	108.3(=106.93+1.37)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.5	0.1	82	0.01	0.1	17.12(=15.92+1.2)	18.0(=16.74+1.26)	19.5(=18.13+1.37)	0.3134	0.3296	0.2032
System TLS18a	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.22	34	52.93	36.37	55.29(=52.89+2.4)	37.0(=34.48+2.52)	0.68(=0.0+2.74)	0.5947	0.3979	0.4176
	Y_d	1.0	1.0	0.0	88.28	71.67	92	-2.93	71.61	67.94(=65.55+2.4)	72.65(=70.13+2.52)	1.14(=0.0+2.74)	0.4794	0.5126	0.82
L^*ABCh_{AB}	G_d	0.0	1.0	0.0	80.67	100.16	153	-89.13	45.67	21.12(=18.73+2.4)	57.88(=55.36+2.52)	13.3(=10.55+2.74)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	0.0	1.0	77.04	64.24	214	-52.95	-36.35	28.92(=26.52+2.4)	51.6(=49.08+2.52)	95.79(=93.05+2.74)	0.164	0.2927	0.5824
	B_d	0.0	0.0	1.0	46.91	71.66	272	2.94	-71.59	16.28(=13.88+2.4)	15.95(=13.43+2.52)	95.34(=92.6+2.74)	0.1276	0.125	0.18
$Y_N = 2.52$	M_d	1.0	0.0	1.0	62.27	100.13	333	89.12	-45.65	63.09(=60.69+2.4)	30.72(=28.2+2.52)	83.18(=80.44+2.74)	0.3564	0.1736	0.3468
$L^*_N = 18.01$	$N0_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=0.0+2.4)	0.02(=0.0+2.52)	0.02(=0.0+2.74)	0.3327	0.3327	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=81.82+2.4)	88.6(=86.08+2.52)	96.49(=93.74+2.74)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=0.0+2.4)	0.02(=0.0+2.52)	0.02(=0.0+2.74)	0.3327	0.3327	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=92.66+2.4)	100.01(=97.49+2.52)	108.3(=105.56+2.74)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.5	0.1	82	0.01	0.1	17.12(=14.72+2.4)	18.0(=15.48+2.52)	19.5(=16.76+2.74)	0.3134	0.3296	0.2032

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

System TLS00b	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.23	34	52.94	36.37	55.29(=55.28+0.01)	36.99(=36.98+0.01)	0.67(=0.66+0.01)	0.5948	0.398	0.4175
	Y_d	1.0	1.0	0.0	88.28	71.68	92	-2.93	71.62	67.94(=67.93+0.01)	72.65(=72.64+0.01)	1.13(=1.11+0.01)	0.4794	0.5127	0.82
L^*ABCh_{AB}	G_d	0.0	1.0	0.0	80.67	100.17	153	-89.14	45.67	21.12(=21.1+0.01)	57.87(=57.86+0.01)	13.29(=13.28+0.01)	0.2288	0.6272	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.04	64.24	214	-52.95	-36.35	28.92(=28.9+0.01)	51.6(=51.59+0.01)	95.79(=95.78+0.01)	0.164	0.2927	0.5824
	B_d	0.0	0.0	1.0	46.89	71.67	272	2.94	-71.6	16.27(=16.26+0.01)	15.94(=15.93+0.01)	95.34(=95.33+0.01)	0.1275	0.125	0.1799
$Y_N = 0.0$	M_d	1.0	0.0	1.0	62.27	100.14	333	89.13	-45.65	63.08(=63.07+0.01)	30.72(=30.71+0.01)	83.18(=83.17+0.01)	0.3564	0.1736	0.3467
$L^*_N = 0.0$	$N0_d$	0.0	0.0	0.0	0.08	0.0	0	0.0	0.0	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.3321	0.3321	0.0001
Normalization:	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=84.2+0.01)	88.6(=88.59+0.01)	96.49(=96.47+0.01)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.08	0.0	0	0.0	0.0	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.3321	0.3321	0.0001
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=95.05+0.01)	100.01(=100.0+0.01)	108.3(=108.29+0.01)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.1	83	0.01	0.1	17.11(=17.1+0.01)	17.99(=17.98+0.01)	19.49(=19.48+0.01)	0.3134	0.3296	0.2031

Calculated colorimetric data: Television Luminous Systems TLSxxa for CIE lightness $L^*=27, 33, 52, 70$ of black and for CIE standard illuminant D65

System TLS27a	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.22	34	52.93	36.37	55.29(=50.5+4.79)	37.0(=31.96+5.04)	0.68(=-4.79+5.49)	0.5947	0.3979	0.4176
	Y_d	1.0	1.0	0.0	88.28	71.67	92	-2.93	71.61	67.94(=63.15+4.79)	72.65(=67.61+5.04)	1.14(=-4.34+5.49)	0.4794	0.5126	0.82
L^*ABCh_{AB}	G_d	0.0	1.0	0.0	80.67	100.16	153	-89.13	45.67	21.12(=16.33+4.79)	57.88(=52.84+5.04)	13.3(=7.81+5.49)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.04	64.24	214	-52.95	-36.35	28.92(=24.13+4.79)	51.6(=46.56+5.04)	95.79(=90.31+5.49)	0.164	0.2927	0.5824
	B_d	0.0	0.0	1.0	46.91	71.66	272	2.94	-71.59	16.28(=11.49+4.79)	15.95(=10.91+5.04)	95.34(=89.86+5.49)	0.1276	0.125	0.18
$Y_N = 5.04$	M_d	1.0	0.0	1.0	62.27	100.13	333	89.12	-45.65	63.09(=58.3+4.79)	30.72(=25.68+5.04)	83.18(=77.69+5.49)	0.3564	0.1736	0.3468
$L^*_N = 26.85$	$N0_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=-4.76+4.79)	0.02(=-5.01+5.04)	0.02(=-5.46+5.49)	0.3327	0.3327	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=79.42+4.79)	88.6(=83.56+5.04)	96.49(=91.0+5.49)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=-4.76+4.79)	0.02(=-5.01+5.04)	0.02(=-5.46+5.49)	0.3327	0.3327	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=90.27+4.79)	100.01(=94.97+5.04)	108.3(=102.82+5.49)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.5	0.1	82	0.01	0.1	17.12(=12.33+4.79)	18.0(=12.96+5.04)	19.5(=14.01+5.49)	0.3134	0.3296	0.2032
System TLS38a	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.22	34	52.93	36.37	55.29(=45.71+9.58)	37.0(=26.92+10.08)	0.68(=-10.28+10.98)	0.5947	0.3979	0.4176
	Y_d	1.0	1.0	0.0	88.28	71.67	92	-2.93	71.61	67.94(=58.36+9.58)	72.65(=62.57+10.08)	1.14(=-9.83+10.98)	0.4794	0.5126	0.82
L^*ABCh_{AB}	G_d	0.0	1.0	0.0	80.67	100.16	153	-89.13	45.67	21.12(=11.54+9.58)	57.88(=47.8+10.08)	13.3(=2.32+10.98)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.04	64.24	214	-52.95	-36.35	28.92(=19.34+9.58)	51.6(=41.52+10.08)	95.79(=84.82+10.98)	0.164	0.2927	0.5824
	B_d	0.0	0.0	1.0	46.91	71.66	272	2.94	-71.59	16.28(=6.69+9.58)	15.95(=5.87+10.08)	95.34(=84.37+10.98)	0.1276	0.125	0.18
$Y_N = 10.08$	M_d	1.0	0.0	1.0	62.27	100.13	333	89.12	-45.65	63.09(=53.51+9.58)	30.72(=20.64+10.08)	83.18(=72.2+10.98)	0.3564	0.1736	0.3468
$L^*_N = 37.99$	$N0_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=-9.55+9.58)	0.02(=-10.95+10.98)	0.02(=-10.95+10.98)	0.3327	0.3327	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=74.63+9.58)	88.6(=78.52+10.08)	96.49(=85.51+10.98)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=-9.55+9.58)	0.02(=-10.95+10.98)	0.02(=-10.95+10.98)	0.3327	0.3327	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=85.48+9.58)	100.01(=89.93+10.08)	108.3(=97.33+10.98)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.5	0.1	82	0.01	0.1	17.12(=7.54+9.58)	18.0(=7.92+10.08)	19.5(=8.52+10.98)	0.3134	0.3296	0.2032
System TLS52a	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.22	34	52.93	36.37	55.29(=36.13+19.16)	37.0(=16.84+20.16)	0.68(=-21.26+21.95)	0.5947	0.3979	0.4176
	Y_d	1.0	1.0	0.0	88.28	71.67	92	-2.93	71.61	67.94(=48.78+19.16)	72.65(=52.49+20.16)	1.14(=-20.81+21.95)	0.4794	0.5126	0.82
L^*ABCh_{AB}	G_d	0.0	1.0	0.0	80.67	100.16	153	-89.13	45.67	21.12(=1.96+19.16)	57.88(=37.72+20.16)	13.3(=-8.64+21.95)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.04	64.24	214	-52.95	-36.35	28.92(=9.76+19.16)	51.6(=31.44+20.16)	95.79(=73.84+21.95)	0.164	0.2927	0.5824
	B_d	0.0	0.0	1.0	46.91	71.66	272	2.94	-71.59	16.28(=-2.88+19.16)	15.95(=-4.2+20.16)	95.34(=73.39+21.95)	0.1276	0.125	0.18
$Y_N = 20.16$	M_d	1.0	0.0	1.0	62.27	100.13	333	89.12	-45.65	63.09(=43.93+19.16)	30.72(=10.56+20.16)	83.18(=61.23+21.95)	0.3564	0.1736	0.3468
$L^*_N = 52.02$	$N0_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=-19.13+19.16)	0.02(=-20.13+20.16)	0.02(=-21.92+21.95)	0.3327	0.3327	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=65.05+19.16)	88.6(=68.44+20.16)	96.49(=74.54+21.95)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=-19.13+19.16)	0.02(=-20.13+20.16)	0.02(=-21.92+21.95)	0.3327	0.3327	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=75.9+19.16)	100.01(=79.85+20.16)	108.3(=86.35+21.95)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.5	0.1	82	0.01	0.1	17.12(=-2.03+19.16)	18.0(=-2.15+20.16)	19.5(=-2.44+21.95)	0.3134	0.3296	0.2032
System TLS70a	Colour	r_d	g_d	b_d	L^*_d	$C_{AB,d}$	$h_{AB,d}$	A_d	B_d	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	67.27	64.22	34	52.93	36.37	55.29(=16.97+38.32)	37.0(=-3.31+40.32)	0.68(=-43.21+43.9)	0.5947	0.3979	0.4176
	Y_d	1.0	1.0	0.0	88.28	71.67	92	-2.93	71.61	67.94(=29.62+38.32)	72.65(=32.33+40.32)	1.14(=-42.76+43.9)	0.4794	0.5126	0.82
L^*ABCh_{AB}	G_d	0.0	1.0	0.0	80.67	100.16	153	-89.13	45.67	21.12(=-17.19+38.32)	57.88(=17.56+40.32)	13.3(=-30.59+43.9)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.04	64.24	214	-52.95	-36.35	28.92(=-9.39+38.32)	51.6(=11.28+40.32)	95.79(=51.89+43.9)	0.164	0.2927	0.5824
	B_d	0.0	0.0	1.0	46.91	71.66	272	2.94	-71.59	16.28(=-22.04+38.32)	15.95(=-24.36+40.32)	95.34(=51.44+43.9)	0.1276	0.125	0.18
$Y_N = 40.32$	M_d	1.0	0.0	1.0	62.27	100.13	333	89.12	-45.65	63.09(=24.77+38.32)	30.72(=-9.59+40.32)	83.18(=39.28+43.9)	0.3564	0.1736	0.3468
$L^*_N = 69.7$	$N0_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=-38.29+38.32)	0.02(=-40.29+40.32)	0.02(=-43.87+43.9)	0.3327	0.3327	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.41	0.0	0	0.0	0.0	84.21(=45.89+38.32)	88.6(=48.28+40.32)	96.49(=52.58+43.9)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.0	0	0.0	0.0	0.02(=-38.29+38.32)	0.02(=-40.29+40.32)	0.02(=-43.87+43.9)	0.3327	0.3327	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.56	91	0.0	0.56	95.06(=56.74+38.32)	100.01(=59.69+40.32)	108.3(=64.4+43.9)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.5	0.1	82	0.01	0.1	17.12(=-21.19+38.32)	18.0(=-22.31+40.32)	19.5(=-24.39+43.9)	0.3134	0.3296	0.2032