

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	121.36	61	58.45	106.35	55.29	36.99	0.67	0.5948	0.398	0.4175
	Y_d	1.0	1.0	0.0	88.28	136.26	91	-2.43	136.23	67.94	72.65	1.13	0.4794	0.5127	0.82
LabC*h _{ab}	C_d	0.0	1.0	0.0	80.67	132.35	149	-113.85	67.47	21.11	57.87	13.29	0.2288	0.6272	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.04	71.91	206	-64.77	-31.21	28.91	51.6	95.79	0.164	0.2927	0.5824
$Y_N = 0.01$	B_d	0.0	0.0	1.0	46.89	83.15	274	6.5	-82.88	16.27	15.94	95.34	0.1275	0.125	0.1799
$L^*_d = 0.08$	M_d	1.0	0.0	1.0	62.27	109.76	334	98.77	-47.86	63.08	30.72	83.18	0.3564	0.1736	0.3467
	$N0_d$	0.0	0.0	0.0	0.08	0.02	0	0.02	0.01	0.01	0.01	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	88.6	96.49	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.08	0.02	0	0.02	0.01	0.01	0.01	0.01	0.3321	0.3321	0.0001
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	100.0	0.37	91	0.0	0.37	95.06	100.01	108.3	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	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	121.36	61	58.45	106.35	55.29	36.99	0.67	0.5948	0.398	0.4175
	Y_d	1.0	1.0	0.0	88.28	136.26	91	-2.43	136.23	67.94	72.65	1.13	0.4794	0.5127	0.82
LabC*h _{ab}	C_d	0.0	1.0	0.0	80.67	132.35	149	-113.85	67.47	21.11	57.87	13.29	0.2288	0.6272	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.04	71.91	206	-64.77	-31.21	28.91	51.6	95.79	0.164	0.2927	0.5824
$Y_N = 0.01$	B_d	0.0	0.0	1.0	46.89	83.15	274	6.5	-82.88	16.27	15.94	95.34	0.1275	0.125	0.1799
$L^*_d = 0.08$	M_d	1.0	0.0	1.0	62.27	109.76	334	98.77	-47.86	63.08	30.72	83.18	0.3564	0.1736	0.3467
	$N0_d$	0.0	0.0	0.0	0.08	0.02	0	0.02	0.01	0.01	0.01	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	88.6	96.49	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.08	0.02	0	0.02	0.01	0.01	0.01	0.01	0.3321	0.3321	0.0001
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	100.0	0.37	91	0.0	0.37	95.06	100.01	108.3	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	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	121.36	61	58.45	106.35	55.29(=55.28+0.01)	36.99(=36.98+0.01)	0.67(=0.66+0.01)	55.2864	36.9905	0.4175
	Y_d	1.0	1.0	0.0	88.28	136.26	91	-2.43	136.23	67.94(=67.93+0.01)	72.65(=72.64+0.01)	1.13(=1.11+0.01)	67.9385	72.652	0.82
LabC*h _{ab}	G_d	0.0	1.0	0.0	80.67	132.35	149	-113.85	67.47	21.11(=21.1+0.01)	57.87(=57.86+0.01)	13.29(=13.28+0.01)	21.1134	57.8735	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.04	71.91	206	-64.77	-31.21	28.91(=28.9+0.01)	51.6(=51.59+0.01)	95.79(=95.78+0.01)	28.9102	51.6006	0.5824
$Y_N = 0.0$	B_d	0.0	0.0	1.0	46.89	83.15	274	6.5	-82.88	16.27(=16.26+0.01)	15.94(=15.93+0.01)	95.34(=95.33+0.01)	16.267	15.9391	0.1799
$L^*_d = 0.0$	M_d	1.0	0.0	1.0	62.27	109.76	334	98.77	-47.86	63.08(=63.07+0.01)	30.72(=30.71+0.01)	83.18(=83.17+0.01)	63.0832	30.7176	0.3467
	$N0_d$	0.0	0.0	0.0	0.08	0.02	0	0.02	0.01	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.0089	0.0089	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)	84.2143	88.6	1.0
	$N1_d$	0.0	0.0	0.0	0.08	0.02	0	0.02	0.01	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.0089	0.0089	0.0001
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	100.0	0.37	91	0.0	0.37	95.06(=95.05+0.01)	100.01(=100.0+0.01)	108.3(=108.29+0.01)	95.0589	100.012	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	17.11(=17.1+0.01)	17.99(=17.98+0.01)	19.49(=19.48+0.01)	17.1087	17.9947	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	121.36	61	58.45	106.35	55.29(=55.28+0.01)	36.99(=36.98+0.01)	0.67(=0.66+0.01)	0.5948	0.398	0.4175
$LabC^*h_{ab}$	Y_d	1.0	1.0	0.0	88.28	136.26	91	-2.43	136.23	67.94(=67.93+0.01)	72.65(=72.64+0.01)	1.13(=1.11+0.01)	0.4794	0.5127	0.82
	G_d	0.0	1.0	0.0	80.67	132.35	149	-113.85	67.47	21.11(=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	71.91	206	-64.77	-31.21	28.91(=28.9+0.01)	51.6(=51.59+0.01)	95.79(=95.78+0.01)	0.164	0.2927	0.5824
$Y_N = 0.0$	B_d	0.0	0.0	1.0	46.89	83.15	274	6.5	-82.88	16.27(=16.26+0.01)	15.94(=15.93+0.01)	95.34(=95.33+0.01)	0.1275	0.125	0.1799
$L^*_N = 0.0$	M_d	1.0	0.0	1.0	62.27	109.76	334	98.77	-47.86	63.08(=63.07+0.01)	30.72(=30.71+0.01)	83.18(=83.17+0.01)	0.3564	0.1736	0.3467
	$N0_d$	0.0	0.0	0.0	0.08	0.02	0	0.02	0.01	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	0.02	0	0.02	0.01	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.3321	0.3321	0.0001
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	100.0	0.37	91	0.0	0.37	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	0.2	83	0.03	0.2	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	67.26	121.21	61	58.43	106.2	55.26(=55.26+0.0)	36.98(=36.98+0.0)	0.68(=0.68+0.0)	0.5947	0.3979	0.4176
$LabC^*h_{ab}$	Y_d	1.0	1.0	0.0	88.27	136.11	91	-2.43	136.09	67.91(=67.91+0.0)	72.62(=72.62+0.0)	1.13(=1.13+0.0)	0.4794	0.5126	0.82
	G_d	0.0	1.0	0.0	80.66	132.3	149	-113.81	67.44	21.11(=21.11+0.0)	57.85(=57.85+0.0)	13.29(=13.29+0.0)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.03	71.89	206	-64.75	-31.2	28.9(=28.9+0.0)	51.58(=51.58+0.0)	95.76(=95.76+0.0)	0.164	0.2927	0.5824
$Y_N = 0.0$	B_d	0.0	0.0	1.0	46.9	83.12	274	6.5	-82.85	16.27(=16.27+0.0)	15.94(=15.94+0.0)	95.3(=95.3+0.0)	0.1276	0.125	0.18
$L^*_N = 0.0$	M_d	1.0	0.0	1.0	62.26	109.73	334	98.74	-47.85	63.06(=63.06+0.0)	30.71(=30.71+0.0)	83.15(=83.15+0.0)	0.3564	0.1736	0.3468
	$N0_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.3327	0.3328	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.0	0	0.0	0.0	84.18(=84.18+0.0)	88.56(=88.56+0.0)	96.45(=96.45+0.0)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.3327	0.3328	0.0002
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	99.99	0.37	91	0.0	0.37	95.01(=95.01+0.0)	99.97(=99.97+0.0)	108.26(=108.26+0.0)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	17.11(=17.11+0.0)	17.99(=17.99+0.0)	19.49(=19.49+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	67.26	121.21	61	58.43	106.2	55.26(=54.67+0.6)	36.98(=36.35+0.63)	0.68(=0.0+0.69)	0.5947	0.3979	0.4176
$LabC^*h_{ab}$	Y_d	1.0	1.0	0.0	88.27	136.11	91	-2.43	136.09	67.91(=67.31+0.6)	72.62(=71.99+0.63)	1.13(=0.45+0.69)	0.4794	0.5126	0.82
	G_d	0.0	1.0	0.0	80.66	132.3	149	-113.81	67.44	21.11(=20.51+0.6)	57.85(=57.22+0.63)	13.29(=12.61+0.69)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.03	71.89	206	-64.75	-31.2	28.9(=28.3+0.6)	51.58(=50.95+0.63)	95.76(=95.07+0.69)	0.164	0.2927	0.5824
$Y_N = 0.63$	B_d	0.0	0.0	1.0	46.9	83.12	274	6.5	-82.85	16.27(=15.67+0.6)	15.94(=15.31+0.63)	95.3(=94.62+0.69)	0.1276	0.125	0.18
$L^*_N = 5.69$	M_d	1.0	0.0	1.0	62.26	109.73	334	98.74	-47.85	63.06(=62.46+0.6)	30.71(=30.08+0.63)	83.15(=82.46+0.69)	0.3564	0.1736	0.3468
	$N0_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=0.0+0.63)	0.02(=0.0+0.63)	0.02(=0.0+0.69)	0.3327	0.3328	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.0	0	0.0	0.0	84.18(=83.58+0.6)	88.56(=87.93+0.63)	96.45(=95.76+0.69)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=0.0+0.63)	0.02(=0.0+0.63)	0.02(=0.0+0.69)	0.3327	0.3328	0.0002
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	99.99	0.37	91	0.0	0.37	95.01(=94.41+0.6)	99.97(=99.34+0.63)	108.26(=107.57+0.69)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	17.11(=16.51+0.6)	17.99(=17.36+0.63)	19.49(=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	67.26	121.21	61	58.43	106.2	55.26(=54.07+1.2)	36.98(=35.72+1.26)	0.68(=0.0+1.37)	0.5947	0.3979	0.4176
$LabC^*h_{ab}$	Y_d	1.0	1.0	0.0	88.27	136.11	91	-2.43	136.09	67.91(=66.71+1.2)	72.62(=71.36+1.26)	1.13(=0.23+1.37)	0.4794	0.5126	0.82
	G_d	0.0	1.0	0.0	80.66	132.3	149	-113.81	67.44	21.11(=19.91+1.2)	57.85(=56.59+1.26)	13.29(=11.92+1.37)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.03	71.89	206	-64.75	-31.2	28.9(=27.71+1.2)	51.58(=50.32+1.26)	95.76(=94.38+1.37)	0.164	0.2927	0.5824
$Y_N = 1.26$	B_d	0.0	0.0	1.0	46.9	83.12	274	6.5	-82.85	16.27(=15.07+1.2)	15.94(=14.68+1.26)	95.3(=93.93+1.37)	0.1276	0.125	0.18
$L^*_N = 11.0$	M_d	1.0	0.0	1.0	62.26	109.73	334	98.74	-47.85	63.06(=61.86+1.2)	30.71(=29.45+1.26)	83.15(=81.77+1.37)	0.3564	0.1736	0.3468
	$N0_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=0.0+1.2)	0.02(=0.0+1.26)	0.02(=0.0+1.37)	0.3327	0.3328	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.0	0	0.0	0.0	84.18(=82.98+1.2)	88.56(=87.3+1.26)	96.45(=95.07+1.37)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=0.0+1.2)	0.02(=0.0+1.26)	0.02(=0.0+1.37)	0.3327	0.3328	0.0002
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	99.99	0.37	91	0.0	0.37	95.01(=93.82+1.2)	99.97(=98.71+1.26)	108.26(=106.89+1.37)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	17.11(=15.91+1.2)	17.99(=16.73+1.26)	19.49(=18.12+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	67.26	121.21	61	58.43	106.2	55.26(=52.87+2.4)	36.98(=34.46+2.52)	0.68(=0.0+2.74)	0.5947	0.3979	0.4176
$LabC^*h_{ab}$	Y_d	1.0	1.0	0.0	88.27	136.11	91	-2.43	136.09	67.91(=65.51+2.4)	72.62(=70.1+2.52)	1.13(=0.0+2.74)	0.4794	0.5126	0.82
	G_d	0.0	1.0	0.0	80.66	132.3	149	-113.81	67.44	21.11(=18.72+2.4)	57.85(=55.33+2.52)	13.29(=10.55+2.74)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.03	71.89	206	-64.75	-31.2	28.9(=26.51+2.4)	51.58(=49.06+2.52)	95.76(=93.01+2.74)	0.164	0.2927	0.5824
$Y_N = 2.52$	B_d	0.0	0.0	1.0	46.9	83.12	274	6.5	-82.85	16.27(=13.87+2.4)	15.94(=13.42+2.52)	95.3(=92.56+2.74)	0.1276	0.125	0.18
$L^*_N = 18.01$	M_d	1.0	0.0	1.0	62.26	109.73	334	98.74	-47.85	63.06(=60.66+2.4)	30.71(=28.19+2.52)	83.15(=80.4+2.74)	0.3564	0.1736	0.3468
	$N0_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=0.0+2.4)	0.02(=0.0+2.52)	0.02(=0.0+2.74)	0.3327	0.3328	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.0	0	0.0	0.0	84.18(=81.78+2.4)	88.56(=86.04+2.52)	96.45(=93.7+2.74)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=0.0+2.4)	0.02(=0.0+2.52)	0.02(=0.0+2.74)	0.3327	0.3328	0.0002
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	99.99	0.37	91	0.0	0.37	95.01(=92.62+2.4)	99.97(=97.45+2.52)	108.26(=105.52+2.74)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	17.11(=14.71+2.4)	17.99(=15.47+2.52)	19.49(=16.75+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	121.36	61	58.45	106.35	55.29(=55.28+0.01)	36.99(=36.98+0.01)	0.67(=0.66+0.01)	0.5948	0.398	0.4175
$LabC^*h_{ab}$	Y_d	1.0	1.0	0.0	88.28	136.26	91	-2.43	136.23	67.94(=67.93+0.01)	72.65(=72.64+0.01)	1.13(=1.11+0.01)	0.4794	0.5127	0.82
	G_d	0.0	1.0	0.0	80.67	132.35	149	-113.85	67.47	21.11(=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	71.91	206	-64.77	-31.21	28.91(=28.9+0.01)	51.6(=51.59+0.01)	95.79(=95.78+0.01)	0.164	0.2927	0.5824
$Y_N = 0.0$	B_d	0.0	0.0	1.0	46.89	83.15	274	6.5	-82.88	16.27(=16.26+0.01)	15.94(=15.93+0.01)	95.34(=95.33+0.01)	0.1275	0.125	0.1799
$L^*_N = 0.0$	M_d	1.0	0.0	1.0	62.27	109.76	334	98.77	-47.86	63.08(=63.07+0.01)	30.72(=30.71+0.01)	83.18(=83.17+0.01)	0.3564	0.1736	0.3467
	$N0_d$	0.0	0.0	0.0	0.08	0.02	0	0.02	0.01	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	0.02	0	0.02	0.01	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.01(=0.0+0.01)	0.3321	0.3321	0.0001
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	100.0	0.37	91	0.0	0.37	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	0.2	83	0.03	0.2	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	67.26	121.21	61	58.43	106.2	55.26(=50.47+4.79)	36.98(=31.94+5.04)	0.68(=-4.79+5.49)	0.5947	0.3979	0.4176
$LabC^*h_{ab}$	Y_d	1.0	1.0	0.0	88.27	136.11	91	-2.43	136.09	67.91(=63.12+4.79)	72.62(=67.58+5.04)	1.13(=-4.34+5.49)	0.4794	0.5126	0.82
	G_d	0.0	1.0	0.0	80.66	132.3	149	-113.81	67.44	21.11(=16.32+4.79)	57.85(=52.81+5.04)	13.29(=-7.81+5.49)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.03	71.89	206	-64.75	-31.2	28.9(=24.11+4.79)	51.58(=46.54+5.04)	95.76(=90.27+5.49)	0.164	0.2927	0.5824
$Y_N = 5.04$	B_d	0.0	0.0	1.0	46.9	83.12	274	6.5	-82.85	16.27(=11.48+4.79)	15.94(=10.9+5.04)	95.3(=89.82+5.49)	0.1276	0.125	0.18
$L^*_N = 26.85$	M_d	1.0	0.0	1.0	62.26	109.73	334	98.74	-47.85	63.06(=58.27+4.79)	30.71(=25.67+5.04)	83.15(=77.66+5.49)	0.3564	0.1736	0.3468
	$N0_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=-4.76+4.79)	0.02(=-5.01+5.04)	0.02(=-5.46+5.49)	0.3327	0.3328	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.0	0	0.0	0.0	84.18(=79.39+4.79)	88.56(=83.52+5.04)	96.45(=90.96+5.49)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=-4.76+4.79)	0.02(=-5.01+5.04)	0.02(=-5.46+5.49)	0.3327	0.3328	0.0002
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	99.99	0.37	91	0.0	0.37	95.01(=90.22+4.79)	99.97(=94.93+5.04)	108.26(=102.77+5.49)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	17.11(=12.32+4.79)	17.99(=12.95+5.04)	19.49(=14.0+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	67.26	121.21	61	58.43	106.2	55.26(=45.68+9.58)	36.98(=26.9+10.08)	0.68(=-10.28+10.98)	0.5947	0.3979	0.4176
$LabC^*h_{ab}$	Y_d	1.0	1.0	0.0	88.27	136.11	91	-2.43	136.09	67.91(=58.33+9.58)	72.62(=62.54+10.08)	1.13(=-9.83+10.98)	0.4794	0.5126	0.82
	G_d	0.0	1.0	0.0	80.66	132.3	149	-113.81	67.44	21.11(=11.53+9.58)	57.85(=47.77+10.08)	13.29(=-2.32+10.98)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.03	71.89	206	-64.75	-31.2	28.9(=19.32+9.58)	51.58(=41.5+10.08)	95.76(=84.78+10.98)	0.164	0.2927	0.5824
$Y_N = 10.08$	B_d	0.0	0.0	1.0	46.9	83.12	274	6.5	-82.85	16.27(=6.69+9.58)	15.94(=5.86+10.08)	95.3(=84.33+10.98)	0.1276	0.125	0.18
$L^*_N = 37.99$	M_d	1.0	0.0	1.0	62.26	109.73	334	98.74	-47.85	63.06(=53.48+9.58)	30.71(=20.63+10.08)	83.15(=72.17+10.98)	0.3564	0.1736	0.3468
	$N0_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=-9.55+9.58)	0.02(=-10.95+10.08)	0.02(=-10.95+10.98)	0.3327	0.3328	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.0	0	0.0	0.0	84.18(=74.6+9.58)	88.56(=78.48+10.08)	96.45(=85.47+10.98)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=-9.55+9.58)	0.02(=-10.95+10.08)	0.02(=-10.95+10.98)	0.3327	0.3328	0.0002
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	99.99	0.37	91	0.0	0.37	95.01(=85.43+9.58)	99.97(=89.89+10.08)	108.26(=97.28+10.98)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	17.11(=7.53+9.58)	17.99(=7.91+10.08)	19.49(=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	67.26	121.21	61	58.43	106.2	55.26(=36.1+19.16)	36.98(=16.82+20.16)	0.68(=-21.26+21.95)	0.5947	0.3979	0.4176
$LabC^*h_{ab}$	Y_d	1.0	1.0	0.0	88.27	136.11	91	-2.43	136.09	67.91(=48.75+19.16)	72.62(=52.46+20.16)	1.13(=-20.81+21.95)	0.4794	0.5126	0.82
	G_d	0.0	1.0	0.0	80.66	132.3	149	-113.81	67.44	21.11(=1.95+19.16)	57.85(=37.69+20.16)	13.29(=-8.65+21.95)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.03	71.89	206	-64.75	-31.2	28.9(=9.74+19.16)	51.58(=31.42+20.16)	95.76(=73.81+21.95)	0.164	0.2927	0.5824
$Y_N = 20.16$	B_d	0.0	0.0	1.0	46.9	83.12	274	6.5	-82.85	16.27(=-2.88+19.16)	15.94(=-4.21+20.16)	95.3(=73.35+21.95)	0.1276	0.125	0.18
$L^*_N = 52.02$	M_d	1.0	0.0	1.0	62.26	109.73	334	98.74	-47.85	63.06(=43.9+19.16)	30.71(=10.55+20.16)	83.15(=61.2+21.95)	0.3564	0.1736	0.3468
	$N0_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=-19.13+19.16)	0.02(=-20.13+20.16)	0.02(=-21.92+21.95)	0.3327	0.3328	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.0	0	0.0	0.0	84.18(=65.02+19.16)	88.56(=68.4+20.16)	96.45(=74.5+21.95)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=-19.13+19.16)	0.02(=-20.13+20.16)	0.02(=-21.92+21.95)	0.3327	0.3328	0.0002
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	99.99	0.37	91	0.0	0.37	95.01(=75.85+19.16)	99.97(=79.81+20.16)	108.26(=86.31+21.95)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	17.11(=-2.04+19.16)	17.99(=-2.16+20.16)	19.49(=-2.45+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	67.26	121.21	61	58.43	106.2	55.26(=16.94+38.32)	36.98(=-3.33+40.32)	0.68(=-43.21+43.9)	0.5947	0.3979	0.4176
$LabC^*h_{ab}$	Y_d	1.0	1.0	0.0	88.27	136.11	91	-2.43	136.09	67.91(=29.59+38.32)	72.62(=32.3+40.32)	1.13(=-42.76+43.9)	0.4794	0.5126	0.82
	G_d	0.0	1.0	0.0	80.66	132.3	149	-113.81	67.44	21.11(=-17.2+38.32)	57.85(=17.53+40.32)	13.29(=-30.6+43.9)	0.2288	0.6271	0.6532
D65 reflection:	C_d	0.0	1.0	1.0	77.03	71.89	206	-64.75	-31.2	28.9(=-9.41+38.32)	51.58(=11.26+40.32)	95.76(=51.86+43.9)	0.164	0.2927	0.5824
$Y_N = 40.32$	B_d	0.0	0.0	1.0	46.9	83.12	274	6.5	-82.85	16.27(=-22.04+38.32)	15.94(=-24.37+40.32)	95.3(=51.4+43.9)	0.1276	0.125	0.18
$L^*_N = 69.7$	M_d	1.0	0.0	1.0	62.26	109.73	334	98.74	-47.85	63.06(=24.74+38.32)	30.71(=-9.6+40.32)	83.15(=39.24+43.9)	0.3564	0.1736	0.3468
	$N0_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=-38.29+38.32)	0.02(=-40.29+40.32)	0.02(=-43.87+43.9)	0.3327	0.3328	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.0	0	0.0	0.0	84.18(=45.85+38.32)	88.56(=48.24+40.32)	96.45(=52.55+43.9)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.17	0.05	0	0.04	0.02	0.02(=-38.29+38.32)	0.02(=-40.29+40.32)	0.02(=-43.87+43.9)	0.3327	0.3328	0.0002
grey $Y_Z=18$	$W1_d$	1.13	1.13	1.13	99.99	0.37	91	0.0	0.37	95.01(=59.69+38.32)	99.97(=59.65+40.32)	108.26(=64.36+43.9)	0.3133	0.3297	1.1288
	$Z1_d$	0.18	0.18	0.18	49.49	0.2	83	0.03	0.2	17.11(=-21.2+38.32)	17.99(=-22.32+40.32)	19.49(=-24.4+43.9)	0.3134	0.3296	0.2032