

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	55.35	147.67	40	112.69	95.43	56.43	23.27	0.0	0.708	0.292	0.2626
	Y_d	1.0	1.0	0.0	93.16	133.13	99	-20.63	131.52	69.24	83.34	2.48	0.4465	0.5375	0.9406
LabC*h _{ab}	C_d	0.0	1.0	0.0	81.88	199.89	146	-165.52	112.06	12.81	60.07	2.48	0.17	0.7971	0.678
D65 reflection:	C_d	0.0	1.0	1.0	85.16	105.74	190	-104.25	-17.67	27.77	66.32	96.48	0.1457	0.348	0.7485
$Y_N = 0.01$	B_d	0.0	0.0	1.0	27.44	142.11	306	82.74	-115.53	14.96	5.25	94.0	0.131	0.046	0.0593
$L^*_d = 0.09$	M_d	1.0	0.0	1.0	60.36	138.47	335	125.38	-58.77	71.39	28.52	94.0	0.3682	0.1471	0.3219
	NO_d	0.0	0.0	0.0	0.09	0.02	0	0.02	0.01	0.01	0.01	0.01	0.3322	0.3322	0.0001
Normalization:	WO_d	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21	88.6	96.48	0.3127	0.329	1.0
	NI_d	0.0	0.0	0.0	0.09	0.02	0	0.02	0.01	0.01	0.01	0.01	0.3322	0.3322	0.0001
white $Y_W=89$	WI_d	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05	100.0	108.9	0.3127	0.329	1.1287
	ZI_d	0.18	0.18	0.18	49.5	0.01	0	0.01	0.0	17.11	18.0	19.6	0.3127	0.329	0.2032

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	55.35	147.67	40	112.69	95.43	56.43	23.27	0.0	0.708	0.292	0.2626
	Y_d	1.0	1.0	0.0	93.16	133.13	99	-20.63	131.52	69.24	83.34	2.48	0.4465	0.5375	0.9406
LabC*h _{ab}	C_d	0.0	1.0	0.0	81.88	199.89	146	-165.52	112.06	12.81	60.07	2.48	0.17	0.7971	0.678
D65 reflection:	C_d	0.0	1.0	1.0	85.16	105.74	190	-104.25	-17.67	27.77	66.32	96.48	0.1457	0.348	0.7485
$Y_N = 0.01$	B_d	0.0	0.0	1.0	27.44	142.11	306	82.74	-115.53	14.96	5.25	94.0	0.131	0.046	0.0593
$L^*_d = 0.09$	M_d	1.0	0.0	1.0	60.36	138.47	335	125.38	-58.77	71.39	28.52	94.0	0.3682	0.1471	0.3219
	NO_d	0.0	0.0	0.0	0.09	0.02	0	0.02	0.01	0.01	0.01	0.01	0.3322	0.3322	0.0001
Normalization:	WO_d	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21	88.6	96.48	0.3127	0.329	1.0
	NI_d	0.0	0.0	0.0	0.09	0.02	0	0.02	0.01	0.01	0.01	0.01	0.3322	0.3322	0.0001
white $Y_W=89$	WI_d	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05	100.0	108.9	0.3127	0.329	1.1287
	ZI_d	0.18	0.18	0.18	49.5	0.01	0	0.01	0.0	17.11	18.0	19.6	0.3127	0.329	0.2032

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	55.35	147.67	40	112.69	95.43	56.43(=56.42+0.01)	23.27(=23.26+0.01)	0.0(=0.0+0.01)	56.43	23.27	0.2626
	Y_d	1.0	1.0	0.0	93.16	133.13	99	-20.63	131.52	69.24(=69.23+0.01)	83.34(=83.33+0.01)	2.48(=2.47+0.01)	69.24	83.34	0.9406
LabC*h _{ab}	C_d	0.0	1.0	0.0	81.88	199.89	146	-165.52	112.06	12.81(=12.8+0.01)	60.07(=60.06+0.01)	2.48(=2.47+0.01)	12.81	60.07	0.678
D65 reflection:	C_d	0.0	1.0	1.0	85.16	105.74	190	-104.25	-17.67	27.77(=27.76+0.01)	66.32(=66.31+0.01)	96.48(=96.47+0.01)	27.77	66.32	0.7485
$Y_N = 0.0$	B_d	0.0	0.0	1.0	27.44	142.11	306	82.74	-115.53	14.96(=14.95+0.01)	5.25(=5.24+0.01)	94.0(=93.99+0.01)	14.96	5.25	0.0593
$L^*_d = 0.0$	M_d	1.0	0.0	1.0	60.36	138.47	335	125.38	-58.77	71.39(=71.38+0.01)	28.52(=28.51+0.01)	94.0(=93.99+0.01)	71.39	28.52	0.3219
	NO_d	0.0	0.0	0.0	0.09	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)	0.01	0.01	0.0001
Normalization:	WO_d	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=84.2+0.01)	88.6(=88.59+0.01)	96.48(=96.47+0.01)	84.21	88.6	1.0
	NI_d	0.0	0.0	0.0	0.09	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)	0.01	0.01	0.0001
white $Y_W=89$	WI_d	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=95.04+0.01)	100.0(=99.99+0.01)	108.9(=108.89+0.01)	95.05	100.0	1.1287
	ZI_d	0.18	0.18	0.18	49.5	0.01	0	0.01	0.0	17.11(=17.1+0.01)	18.0(=17.99+0.01)	19.6(=19.59+0.01)	17.11	18.0	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	$C^*_{ab,d}$	$h_{ab,d}$	$a^*_{d,0}$	$b^*_{d,0}$	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	55.35	147.67	40	112.69	95.43	56.43(=56.42+0.01)	23.27(=23.26+0.01)	0.0(=0.0+0.01)	0.708	0.292	0.2626
LabC*h _{ab}	Y_d	1.0	1.0	0.0	93.16	133.13	99	-20.63	131.52	69.24(=69.23+0.01)	83.34(=83.33+0.01)	2.48(=2.47+0.01)	0.4465	0.5375	0.9406
D65 reflection:	G_d	0.0	1.0	0.0	81.88	199.89	146	-165.52	112.06	12.81(=12.8+0.01)	60.07(=60.06+0.01)	2.48(=2.47+0.01)	0.17	0.7971	0.678
$Y_N = 0.0$	C_d	0.0	1.0	1.0	85.16	105.74	190	-104.25	-17.67	27.77(=27.76+0.01)	66.32(=66.31+0.01)	96.48(=96.47+0.01)	0.1457	0.348	0.7485
$L^*_N = 0.0$	B_d	0.0	0.0	1.0	27.44	142.11	306	82.74	-115.53	14.96(=14.95+0.01)	5.25(=5.24+0.01)	94.0(=93.99+0.01)	0.131	0.046	0.0593
Normalization:	M_d	1.0	0.0	1.0	60.36	138.47	335	125.38	-58.77	71.39(=71.38+0.01)	28.52(=28.51+0.01)	94.0(=93.99+0.01)	0.3682	0.1471	0.3219
white $Y_W=89$	$N0_d$	0.0	0.0	0.0	0.09	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)	0.3322	0.3322	0.0001
	$W0_d$	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=84.2+0.01)	88.6(=88.59+0.01)	96.48(=96.47+0.01)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.09	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)	0.3322	0.3322	0.0001
	$W1_d$	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=95.04+0.01)	100.0(=99.99+0.01)	108.9(=108.89+0.01)	0.3127	0.329	1.1287
	$Z1_d$	0.18	0.18	0.18	49.5	0.01	0	0.01	0.0	17.11(=17.1+0.01)	18.0(=17.99+0.01)	19.6(=19.59+0.01)	0.3127	0.329	0.2032

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	$C^*_{ab,d}$	$h_{ab,d}$	$a^*_{d,0}$	$b^*_{d,0}$	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	55.36	147.57	40	112.67	95.3	56.43(=56.43+0.0)	23.28(=23.28+0.0)	0.01(=0.01+0.0)	0.7079	0.292	0.2627
LabC*h _{ab}	Y_d	1.0	1.0	0.0	93.16	133.06	99	-20.63	131.45	69.24(=69.24+0.0)	83.34(=83.34+0.0)	2.49(=2.49+0.0)	0.4465	0.5374	0.9406
D65 reflection:	G_d	0.0	1.0	0.0	81.88	199.81	146	-165.47	111.99	12.82(=12.82+0.0)	60.07(=60.07+0.0)	2.49(=2.49+0.0)	0.17	0.7969	0.678
$Y_N = 0.0$	C_d	0.0	1.0	1.0	85.16	105.72	190	-104.22	-17.66	27.78(=27.78+0.0)	66.32(=66.32+0.0)	96.48(=96.48+0.0)	0.1457	0.348	0.7486
$L^*_N = 0.0$	B_d	0.0	0.0	1.0	27.46	142.04	306	82.67	-115.48	14.97(=14.97+0.0)	5.26(=5.26+0.0)	94.0(=94.0+0.0)	0.131	0.046	0.0594
Normalization:	M_d	1.0	0.0	1.0	60.36	138.45	335	125.36	-58.76	71.39(=71.39+0.0)	28.53(=28.53+0.0)	94.0(=94.0+0.0)	0.3682	0.1471	0.322
white $Y_W=89$	$N0_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.3328	0.3328	0.0002
	$W0_d$	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=84.21+0.0)	88.6(=88.6+0.0)	96.48(=96.48+0.0)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.02(=0.02+0.0)	0.3328	0.3328	0.0002
	$W1_d$	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=95.05+0.0)	100.0(=100.0+0.0)	108.9(=108.9+0.0)	0.3127	0.329	1.1287
	$Z1_d$	0.18	0.18	0.18	49.51	0.01	0	0.01	0.01	17.12(=17.12+0.0)	18.01(=18.01+0.0)	19.61(=19.61+0.0)	0.3127	0.329	0.2032
System TLS06a	Colour	r_d	g_d	b_d	L^*_d	$C^*_{ab,d}$	$h_{ab,d}$	$a^*_{d,0}$	$b^*_{d,0}$	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	55.36	147.57	40	112.67	95.3	56.43(=55.83+0.6)	23.28(=22.65+0.63)	0.01(=-0.67+0.69)	0.7079	0.292	0.2627
LabC*h _{ab}	Y_d	1.0	1.0	0.0	93.16	133.06	99	-20.63	131.45	69.24(=68.64+0.6)	83.34(=82.71+0.63)	2.49(=1.8+0.69)	0.4465	0.5374	0.9406
D65 reflection:	G_d	0.0	1.0	0.0	81.88	199.81	146	-165.47	111.99	12.82(=12.22+0.6)	60.07(=59.44+0.63)	2.49(=1.8+0.69)	0.17	0.7969	0.678
$Y_N = 0.63$	C_d	0.0	1.0	1.0	85.16	105.72	190	-104.22	-17.66	27.78(=27.18+0.6)	66.32(=65.69+0.63)	96.48(=95.79+0.69)	0.1457	0.348	0.7486
$L^*_N = 5.69$	B_d	0.0	0.0	1.0	27.46	142.04	306	82.67	-115.48	14.97(=14.37+0.6)	5.26(=4.63+0.63)	94.0(=93.31+0.69)	0.131	0.046	0.0594
Normalization:	M_d	1.0	0.0	1.0	60.36	138.45	335	125.36	-58.76	71.39(=70.79+0.6)	28.53(=27.9+0.63)	94.0(=93.31+0.69)	0.3682	0.1471	0.322
white $Y_W=89$	$N0_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-0.57+0.6)	0.02(=-0.6+0.63)	0.02(=-0.66+0.69)	0.3328	0.3328	0.0002
	$W0_d$	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=83.61+0.6)	88.6(=87.97+0.63)	96.48(=95.79+0.69)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-0.57+0.6)	0.02(=-0.6+0.63)	0.02(=-0.66+0.69)	0.3328	0.3328	0.0002
	$W1_d$	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=94.45+0.6)	100.0(=99.37+0.63)	108.9(=108.21+0.69)	0.3127	0.329	1.1287
	$Z1_d$	0.18	0.18	0.18	49.51	0.01	0	0.01	0.01	17.12(=16.52+0.6)	18.01(=17.38+0.63)	19.61(=18.92+0.69)	0.3127	0.329	0.2032
System TLS11a	Colour	r_d	g_d	b_d	L^*_d	$C^*_{ab,d}$	$h_{ab,d}$	$a^*_{d,0}$	$b^*_{d,0}$	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	55.36	147.57	40	112.67	95.3	56.43(=55.24+1.2)	23.28(=22.02+1.26)	0.01(=-1.35+1.37)	0.7079	0.292	0.2627
LabC*h _{ab}	Y_d	1.0	1.0	0.0	93.16	133.06	99	-20.63	131.45	69.24(=68.04+1.2)	83.34(=82.08+1.26)	2.49(=1.12+1.37)	0.4465	0.5374	0.9406
D65 reflection:	G_d	0.0	1.0	0.0	81.88	199.81	146	-165.47	111.99	12.82(=11.62+1.2)	60.07(=58.81+1.26)	2.49(=1.12+1.37)	0.17	0.7969	0.678
$Y_N = 1.26$	C_d	0.0	1.0	1.0	85.16	105.72	190	-104.22	-17.66	27.78(=26.58+1.2)	66.32(=65.06+1.26)	96.48(=95.11+1.37)	0.1457	0.348	0.7486
$L^*_N = 11.0$	B_d	0.0	0.0	1.0	27.46	142.04	306	82.67	-115.48	14.97(=13.77+1.2)	5.26(=4.0+1.26)	94.0(=92.63+1.37)	0.131	0.046	0.0594
Normalization:	M_d	1.0	0.0	1.0	60.36	138.45	335	125.36	-58.76	71.39(=70.19+1.2)	28.53(=27.27+1.26)	94.0(=92.63+1.37)	0.3682	0.1471	0.322
white $Y_W=89$	$N0_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-1.17+1.2)	0.02(=-1.23+1.26)	0.02(=-1.34+1.37)	0.3328	0.3328	0.0002
	$W0_d$	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=83.01+1.2)	88.6(=87.34+1.26)	96.48(=95.11+1.37)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-1.17+1.2)	0.02(=-1.23+1.26)	0.02(=-1.34+1.37)	0.3328	0.3328	0.0002
	$W1_d$	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=93.85+1.2)	100.0(=98.74+1.26)	108.9(=107.53+1.37)	0.3127	0.329	1.1287
	$Z1_d$	0.18	0.18	0.18	49.51	0.01	0	0.01	0.01	17.12(=15.92+1.2)	18.01(=16.75+1.26)	19.61(=18.24+1.37)	0.3127	0.329	0.2032
System TLS18a	Colour	r_d	g_d	b_d	L^*_d	$C^*_{ab,d}$	$h_{ab,d}$	$a^*_{d,0}$	$b^*_{d,0}$	X_d	Y_d	Z_d	x_d	y_d	$Y_d/88.59$
WCGa	R_d	1.0	0.0	0.0	55.36	147.57	40	112.67	95.3	56.43(=54.04+2.4)	23.28(=20.76+2.52)	0.01(=-2.72+2.74)	0.7079	0.292	0.2627
LabC*h _{ab}	Y_d	1.0	1.0	0.0	93.16	133.06	99	-20.63	131.45	69.24(=66.85+2.4)	83.34(=80.82+2.52)	2.49(=-0.24+2.74)	0.4465	0.5374	0.9406
D65 reflection:	G_d	0.0	1.0	0.0	81.88	199.81	146	-165.47	111.99	12.82(=10.42+2.4)	60.07(=57.55+2.52)	2.49(=-0.24+2.74)	0.17	0.7969	0.678
$Y_N = 2.52$	C_d	0.0	1.0	1.0	85.16	105.72	190	-104.22	-17.66	27.78(=25.38+2.4)	66.32(=63.8+2.52)	96.48(=93.74+2.74)	0.1457	0.348	0.7486
$L^*_N = 18.01$	B_d	0.0	0.0	1.0	27.46	142.04	306	82.67	-115.48	14.97(=12.57+2.4)	5.26(=2.74+2.52)	94.0(=91.26+2.74)	0.131	0.046	0.0594
Normalization:	M_d	1.0	0.0	1.0	60.36	138.45	335	125.36	-58.76	71.39(=69.0+2.4)	28.53(=26.01+2.52)	94.0(=91.26+2.74)	0.3682	0.1471	0.322
white $Y_W=89$	$N0_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-2.37+2.4)	0.02(=-2.49+2.52)	0.02(=-2.71+2.74)	0.3328	0.3328	0.0002
	$W0_d$	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=81.81+2.4)	88.6(=86.08+2.52)	96.48(=93.74+2.74)	0.3127	0.329	1.0
	$N1_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-2.37+2.4)	0.02(=-2.49+2.52)	0.02(=-2.71+2.74)	0.3328	0.3328	0.0002
	$W1_d$	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=92.65+2.4)	100.0(=97.48+2.52)	108.9(=106.15+2.74)	0.3127	0.329	1.1287
	$Z1_d$	0.18	0.18	0.18	49.51	0.01	0	0.01	0.01	17.12(=14.72+2.4)	18.01(=15.49+2.52)	19.61(=16.86+2.74)	0.3127	0.329	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	55.35	147.67	40	112.69	95.43	56.43(=56.42+0.01)	23.27(=23.26+0.01)	0.0(=0.0+0.01)	0.708	0.292	0.2626
	Y_d	1.0	1.0	0.0	93.16	133.13	99	-20.63	131.52	69.24(=69.23+0.01)	83.34(=83.33+0.01)	2.48(=2.47+0.01)	0.4465	0.5375	0.9406
LabC*h _{ab}	G_d	0.0	1.0	0.0	81.88	199.89	146	-165.52	112.06	12.81(=12.8+0.01)	60.07(=60.06+0.01)	2.48(=2.47+0.01)	0.17	0.7971	0.678
D65 reflection:	C_d	0.0	1.0	1.0	85.16	105.74	190	-104.25	-17.67	27.77(=27.76+0.01)	66.32(=66.31+0.01)	96.48(=96.47+0.01)	0.1457	0.348	0.7485
	B_d	0.0	0.0	1.0	27.44	142.11	306	82.74	-115.53	14.96(=14.95+0.01)	5.25(=5.24+0.01)	94.0(=93.99+0.01)	0.131	0.046	0.0593
$Y_N = 0.0$	M_d	1.0	0.0	1.0	60.36	138.47	335	125.38	-58.77	71.39(=71.38+0.01)	28.52(=28.51+0.01)	94.0(=93.99+0.01)	0.3682	0.1471	0.3219
$L^*_N = 0.0$	$N0_d$	0.0	0.0	0.0	0.09	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)	0.3322	0.3322	0.0001
	$W0_d$	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=84.2+0.01)	88.6(=88.59+0.01)	96.48(=96.47+0.01)	0.3127	0.329	1.0
Normalization:	$N1_d$	0.0	0.0	0.0	0.09	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)	0.3322	0.3322	0.0001
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=95.04+0.01)	100.0(=99.99+0.01)	108.9(=108.89+0.01)	0.3127	0.329	1.1287
	$Z1_d$	0.18	0.18	0.18	49.5	0.01	0	0.01	0.0	17.11(=17.1+0.01)	18.0(=17.99+0.01)	19.6(=19.59+0.01)	0.3127	0.329	0.2032

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	55.36	147.57	40	112.67	95.3	56.43(=51.64+4.79)	23.28(=18.24+5.04)	0.01(=-5.47+5.49)	0.7079	0.292	0.2627
	Y_d	1.0	1.0	0.0	93.16	133.06	99	-20.63	131.45	69.24(=64.45+4.79)	83.34(=78.3+5.04)	2.49(=-2.99+5.49)	0.4465	0.5374	0.9406
LabC*h _{ab}	G_d	0.0	1.0	0.0	81.88	199.81	146	-165.47	111.99	12.82(=8.03+4.79)	60.07(=55.03+5.04)	2.49(=-2.99+5.49)	0.17	0.7969	0.678
D65 reflection:	C_d	0.0	1.0	1.0	85.16	105.72	190	-104.22	-17.66	27.78(=22.99+4.79)	66.32(=61.28+5.04)	96.48(=90.99+5.49)	0.1457	0.348	0.7486
	B_d	0.0	0.0	1.0	27.46	142.04	306	82.67	-115.48	14.97(=10.18+4.79)	5.26(=-0.22+5.04)	94.0(=88.51+5.49)	0.131	0.046	0.0594
$Y_N = 5.04$	M_d	1.0	0.0	1.0	60.36	138.45	335	125.36	-58.76	71.39(=66.6+4.79)	28.53(=23.49+5.04)	94.0(=88.51+5.49)	0.3682	0.1471	0.322
$L^*_N = 26.85$	$N0_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-4.76+4.79)	0.02(=-5.01+5.04)	0.02(=-5.46+5.49)	0.3328	0.3328	0.0002
	$W0_d$	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=79.42+4.79)	88.6(=83.56+5.04)	96.48(=90.99+5.49)	0.3127	0.329	1.0
Normalization:	$N1_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-4.76+4.79)	0.02(=-5.01+5.04)	0.02(=-5.46+5.49)	0.3328	0.3328	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=90.26+4.79)	100.0(=94.96+5.04)	108.9(=103.41+5.49)	0.3127	0.329	1.1287
	$Z1_d$	0.18	0.18	0.18	49.51	0.01	0	0.01	0.01	17.12(=12.33+4.79)	18.01(=12.97+5.04)	19.61(=14.12+5.49)	0.3127	0.329	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	55.36	147.57	40	112.67	95.3	56.43(=46.85+9.58)	23.28(=13.2+10.08)	0.01(=-10.96+10.98)	0.7079	0.292	0.2627
	Y_d	1.0	1.0	0.0	93.16	133.06	99	-20.63	131.45	69.24(=59.66+9.58)	83.34(=73.26+10.08)	2.49(=-8.48+10.98)	0.4465	0.5374	0.9406
LabC*h _{ab}	G_d	0.0	1.0	0.0	81.88	199.81	146	-165.47	111.99	12.82(=3.24+9.58)	60.07(=49.99+10.08)	2.49(=-8.48+10.98)	0.17	0.7969	0.678
D65 reflection:	C_d	0.0	1.0	1.0	85.16	105.72	190	-104.22	-17.66	27.78(=18.2+9.58)	66.32(=56.24+10.08)	96.48(=85.5+10.98)	0.1457	0.348	0.7486
	B_d	0.0	0.0	1.0	27.46	142.04	306	82.67	-115.48	14.97(=5.39+9.58)	5.26(=-4.81+10.08)	94.0(=83.03+10.98)	0.131	0.046	0.0594
$Y_N = 10.08$	M_d	1.0	0.0	1.0	60.36	138.45	335	125.36	-58.76	71.39(=61.81+9.58)	28.53(=18.45+10.08)	94.0(=83.03+10.98)	0.3682	0.1471	0.322
$L^*_N = 37.99$	$N0_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-9.55+9.58)	0.02(=-10.95+10.98)	0.02(=-10.95+10.98)	0.3328	0.3328	0.0002
	$W0_d$	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=74.63+9.58)	88.6(=78.52+10.08)	96.48(=85.5+10.98)	0.3127	0.329	1.0
Normalization:	$N1_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-9.55+9.58)	0.02(=-10.95+10.98)	0.02(=-10.95+10.98)	0.3328	0.3328	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=85.47+9.58)	100.0(=89.92+10.08)	108.9(=97.92+10.98)	0.3127	0.329	1.1287
	$Z1_d$	0.18	0.18	0.18	49.51	0.01	0	0.01	0.01	17.12(=7.54+9.58)	18.01(=7.93+10.08)	19.61(=8.63+10.98)	0.3127	0.329	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	55.36	147.57	40	112.67	95.3	56.43(=37.27+19.16)	23.28(=3.12+20.16)	0.01(=-21.93+21.95)	0.7079	0.292	0.2627
	Y_d	1.0	1.0	0.0	93.16	133.06	99	-20.63	131.45	69.24(=50.08+19.16)	83.34(=63.18+20.16)	2.49(=-19.45+21.95)	0.4465	0.5374	0.9406
LabC*h _{ab}	G_d	0.0	1.0	0.0	81.88	199.81	146	-165.47	111.99	12.82(=-6.33+19.16)	60.07(=39.91+20.16)	2.49(=-19.45+21.95)	0.17	0.7969	0.678
D65 reflection:	C_d	0.0	1.0	1.0	85.16	105.72	190	-104.22	-17.66	27.78(=8.62+19.16)	66.32(=46.16+20.16)	96.48(=74.53+21.95)	0.1457	0.348	0.7486
	B_d	0.0	0.0	1.0	27.46	142.04	306	82.67	-115.48	14.97(=-4.18+19.16)	5.26(=-14.89+20.16)	94.0(=72.05+21.95)	0.131	0.046	0.0594
$Y_N = 20.16$	M_d	1.0	0.0	1.0	60.36	138.45	335	125.36	-58.76	71.39(=52.23+19.16)	28.53(=8.37+20.16)	94.0(=72.05+21.95)	0.3682	0.1471	0.322
$L^*_N = 52.02$	$N0_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-19.13+19.16)	0.02(=-20.13+20.16)	0.02(=-21.92+21.95)	0.3328	0.3328	0.0002
	$W0_d$	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=65.05+19.16)	88.6(=68.44+20.16)	96.48(=74.53+21.95)	0.3127	0.329	1.0
Normalization:	$N1_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-19.13+19.16)	0.02(=-20.13+20.16)	0.02(=-21.92+21.95)	0.3328	0.3328	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=75.89+19.16)	100.0(=79.84+20.16)	108.9(=86.95+21.95)	0.3127	0.329	1.1287
	$Z1_d$	0.18	0.18	0.18	49.51	0.01	0	0.01	0.01	17.12(=-2.03+19.16)	18.01(=-2.14+20.16)	19.61(=-2.33+21.95)	0.3127	0.329	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	55.36	147.57	40	112.67	95.3	56.43(=18.11+38.32)	23.28(=-17.03+40.32)	0.01(=-43.88+43.9)	0.7079	0.292	0.2627
	Y_d	1.0	1.0	0.0	93.16	133.06	99	-20.63	131.45	69.24(=30.92+38.32)	83.34(=43.02+40.32)	2.49(=-41.4+43.9)	0.4465	0.5374	0.9406
LabC*h _{ab}	G_d	0.0	1.0	0.0	81.88	199.81	146	-165.47	111.99	12.82(=-25.49+38.32)	60.07(=19.75+40.32)	2.49(=-41.4+43.9)	0.17	0.7969	0.678
D65 reflection:	C_d	0.0	1.0	1.0	85.16	105.72	190	-104.22	-17.66	27.78(=-10.53+38.32)	66.32(=26.0+40.32)	96.48(=52.58+43.9)	0.1457	0.348	0.7486
	B_d	0.0	0.0	1.0	27.46	142.04	306	82.67	-115.48	14.97(=-23.34+38.32)	5.26(=-35.05+40.32)	94.0(=50.1+43.9)	0.131	0.046	0.0594
$Y_N = 40.32$	M_d	1.0	0.0	1.0	60.36	138.45	335	125.36	-58.76	71.39(=33.07+38.32)	28.53(=-11.78+40.32)	94.0(=50.1+43.9)	0.3682	0.1471	0.322
$L^*_N = 69.7$	$N0_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-38.29+38.32)	0.02(=-40.29+40.32)	0.02(=-43.87+43.9)	0.3328	0.3328	0.0002
	$W0_d$	1.0	1.0	1.0	95.41	0.01	0	0.0	0.0	84.21(=45.89+38.32)	88.6(=48.28+40.32)	96.48(=52.58+43.9)	0.3127	0.329	1.0
Normalization:	$N1_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-38.29+38.32)	0.02(=-40.29+40.32)	0.02(=-43.87+43.9)	0.3328	0.3328	0.0002
white $Y_W=89$	$W1_d$	1.13	1.13	1.13	100.0	0.0	0	0.0	0.0	95.05(=56.73+38.32)	100.0(=59.68+40.32)	108.9(=65.07+43.9)	0.3127	0.329	1.1287
	$Z1_d$	0.18	0.18	0.18	49.51	0.01	0	0.01	0.01	17.12(=-21.19+38.32)	18.01(=-22.3+40.32)	19.61(=-24.28+43.9)	0.3127	0.329	0.2032