

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	47.29	76.0	33	63.85	41.22	29.01	16.24	4.26	0.5859	0.328	0.1833
	Y_d	1.0	1.0	0.0	88.3	95.88	97	-11.91	95.13	63.74	72.69	8.27	0.4405	0.5023	0.8204
LabC*h _{ab}	C_d	0.0	1.0	0.0	51.89	74.31	158	-68.78	28.11	8.53	20.05	9.58	0.2235	0.5254	0.2263
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.57	236	-29.21	-43.7	18.74	26.27	69.02	0.1643	0.2304	0.2965
$Y_N = 0.01$	B_d	0.0	0.0	1.0	25.29	52.83	296	23.51	-47.3	6.22	4.51	22.65	0.1863	0.1351	0.0509
$L^*_d = 0.09$	M_d	1.0	0.0	1.0	48.2	73.27	353	72.78	-8.48	32.46	16.95	23.04	0.448	0.234	0.1913
	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
grey $Y_Z=18$	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	47.29	76.0	33	63.85	41.22	29.01	16.24	4.26	0.5859	0.328	0.1833
	Y_d	1.0	1.0	0.0	88.3	95.88	97	-11.91	95.13	63.74	72.69	8.27	0.4405	0.5023	0.8204
LabC*h _{ab}	C_d	0.0	1.0	0.0	51.89	74.31	158	-68.78	28.11	8.53	20.05	9.58	0.2235	0.5254	0.2263
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.57	236	-29.21	-43.7	18.74	26.27	69.02	0.1643	0.2304	0.2965
$Y_N = 0.01$	B_d	0.0	0.0	1.0	25.29	52.83	296	23.51	-47.3	6.22	4.51	22.65	0.1863	0.1351	0.0509
$L^*_d = 0.09$	M_d	1.0	0.0	1.0	48.2	73.27	353	72.78	-8.48	32.46	16.95	23.04	0.448	0.234	0.1913
	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
grey $Y_Z=18$	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	47.29	76.0	33	63.85	41.22	29.01(=29.0+0.01)	16.24(=16.23+0.01)	4.26(=4.25+0.01)	29.01	16.24	0.1833
	Y_d	1.0	1.0	0.0	88.3	95.88	97	-11.91	95.13	63.74(=63.73+0.01)	72.69(=72.68+0.01)	8.27(=8.26+0.01)	63.74	72.69	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.31	158	-68.78	28.11	8.53(=8.52+0.01)	20.05(=20.04+0.01)	9.58(=9.57+0.01)	8.53	20.05	0.2263
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.57	236	-29.21	-43.7	18.74(=18.73+0.01)	26.27(=26.26+0.01)	69.02(=69.01+0.01)	18.74	26.27	0.2965
$Y_N = 0.0$	B_d	0.0	0.0	1.0	25.29	52.83	296	23.51	-47.3	6.22(=6.21+0.01)	4.51(=4.5+0.01)	22.65(=22.64+0.01)	6.22	4.51	0.0509
$L^*_d = 0.0$	M_d	1.0	0.0	1.0	48.2	73.27	353	72.78	-8.48	32.46(=32.45+0.01)	16.95(=16.94+0.01)	23.04(=23.03+0.01)	32.46	16.95	0.1913
	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
grey $Y_Z=18$	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	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	47.29	76.0	33	63.85	41.22	29.01(=29.0+0.01)	16.24(=16.23+0.01)	4.26(=4.25+0.01)	0.5859	0.328	0.1833
	Y_d	1.0	1.0	0.0	88.3	95.88	97	-11.91	95.13	63.74(=63.73+0.01)	72.69(=72.68+0.01)	8.27(=8.26+0.01)	0.4405	0.5023	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.31	158	-68.78	28.11	8.53(=8.52+0.01)	20.05(=20.04+0.01)	9.58(=9.57+0.01)	0.2235	0.5254	0.2263
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.57	236	-29.21	-43.7	18.74(=18.73+0.01)	26.27(=26.26+0.01)	69.02(=69.01+0.01)	0.1643	0.2304	0.2965
	B_d	0.0	0.0	1.0	25.29	52.83	296	23.51	-47.3	6.22(=6.21+0.01)	4.51(=4.5+0.01)	22.65(=22.64+0.01)	0.1863	0.1351	0.0509
$Y_N = 0.0$	M_d	1.0	0.0	1.0	48.2	73.27	353	72.78	-8.48	32.46(=32.45+0.01)	16.95(=16.94+0.01)	23.04(=23.03+0.01)	0.448	0.234	0.1913
$L^*_N = 0.0$	$N0_d$	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
Normalization:	$W0_d$	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
greyY _Z =18	$W1_d$	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	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	47.29	75.95	33	63.82	41.18	29.0(=29.0+0.0)	16.24(=16.24+0.0)	4.27(=4.27+0.0)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.29	95.83	97	-11.91	95.09	63.71(=63.71+0.0)	72.66(=72.66+0.0)	8.28(=8.28+0.0)	0.4405	0.5023	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.26	158	-68.73	28.09	8.54(=8.54+0.0)	20.05(=20.05+0.0)	9.59(=9.59+0.0)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.55	236	-29.19	-43.68	18.74(=18.74+0.0)	26.27(=26.27+0.0)	68.99(=68.99+0.0)	0.1644	0.2304	0.2966
	B_d	0.0	0.0	1.0	25.31	52.78	296	23.48	-47.26	6.23(=6.23+0.0)	4.52(=4.52+0.0)	22.65(=22.65+0.0)	0.1865	0.1353	0.051
$Y_N = 0.0$	M_d	1.0	0.0	1.0	48.2	73.24	353	72.74	-8.48	32.45(=32.45+0.0)	16.95(=16.95+0.0)	23.04(=23.04+0.0)	0.448	0.234	0.1914
$L^*_N = 0.0$	$N0_d$	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
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.01	0	0.0	0.0	84.17(=84.17+0.0)	88.56(=88.56+0.0)	96.44(=96.44+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
greyY _Z =18	$W1_d$	1.13	1.13	1.13	99.98	0.0	0	0.0	0.0	95.0(=95.0+0.0)	99.95(=99.95+0.0)	108.85(=108.85+0.0)	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(=17.11+0.0)	18.0(=18.0+0.0)	19.6(=19.6+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	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	47.29	75.95	33	63.82	41.18	29.0(=28.4+0.6)	16.24(=15.61+0.63)	4.27(=3.58+0.69)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.29	95.83	97	-11.91	95.09	63.71(=63.11+0.6)	72.66(=72.03+0.63)	8.28(=7.59+0.69)	0.4405	0.5023	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.26	158	-68.73	28.09	8.54(=7.94+0.6)	20.05(=19.42+0.63)	9.59(=8.9+0.69)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.55	236	-29.19	-43.68	18.74(=18.14+0.6)	26.27(=25.64+0.63)	68.99(=68.31+0.69)	0.1644	0.2304	0.2966
	B_d	0.0	0.0	1.0	25.31	52.78	296	23.48	-47.26	6.23(=5.63+0.6)	4.52(=3.89+0.63)	22.65(=21.96+0.69)	0.1865	0.1353	0.051
$Y_N = 0.63$	M_d	1.0	0.0	1.0	48.2	73.24	353	72.74	-8.48	32.45(=31.85+0.6)	16.95(=16.32+0.63)	23.04(=22.35+0.69)	0.448	0.234	0.1914
$L^*_N = 5.69$	$N0_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=0.57+0.6)	0.02(=0.66+0.63)	0.02(=0.66+0.69)	0.3328	0.3328	0.0002
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.01	0	0.0	0.0	84.17(=83.57+0.6)	88.56(=87.93+0.63)	96.44(=95.75+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(=0.66+0.63)	0.02(=0.66+0.69)	0.3328	0.3328	0.0002
greyY _Z =18	$W1_d$	1.13	1.13	1.13	99.98	0.0	0	0.0	0.0	95.0(=94.41+0.6)	99.95(=99.32+0.63)	108.85(=108.17+0.69)	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(=16.51+0.6)	18.0(=17.37+0.63)	19.6(=18.91+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	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	47.29	75.95	33	63.82	41.18	29.0(=27.81+1.2)	16.24(=14.98+1.26)	4.27(=2.9+1.37)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.29	95.83	97	-11.91	95.09	63.71(=62.52+1.2)	72.66(=71.4+1.26)	8.28(=6.9+1.37)	0.4405	0.5023	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.26	158	-68.73	28.09	8.54(=7.34+1.2)	20.05(=18.79+1.26)	9.59(=8.21+1.37)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.55	236	-29.19	-43.68	18.74(=17.54+1.2)	26.27(=25.01+1.26)	68.99(=67.62+1.37)	0.1644	0.2304	0.2966
	B_d	0.0	0.0	1.0	25.31	52.78	296	23.48	-47.26	6.23(=5.03+1.2)	4.52(=3.26+1.26)	22.65(=21.28+1.37)	0.1865	0.1353	0.051
$Y_N = 1.26$	M_d	1.0	0.0	1.0	48.2	73.24	353	72.74	-8.48	32.45(=31.25+1.2)	16.95(=15.69+1.26)	23.04(=21.67+1.37)	0.448	0.234	0.1914
$L^*_N = 11.0$	$N0_d$	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
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.01	0	0.0	0.0	84.17(=82.97+1.2)	88.56(=87.3+1.26)	96.44(=95.07+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
greyY _Z =18	$W1_d$	1.13	1.13	1.13	99.98	0.0	0	0.0	0.0	95.0(=93.81+1.2)	99.95(=98.69+1.26)	108.85(=107.48+1.37)	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(=15.91+1.2)	18.0(=16.74+1.26)	19.6(=18.23+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	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	47.29	75.95	33	63.82	41.18	29.0(=26.61+2.4)	16.24(=13.72+2.52)	4.27(=1.52+2.74)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.29	95.83	97	-11.91	95.09	63.71(=61.32+2.4)	72.66(=70.14+2.52)	8.28(=5.53+2.74)	0.4405	0.5023	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.26	158	-68.73	28.09	8.54(=6.14+2.4)	20.05(=17.53+2.52)	9.59(=6.84+2.74)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.55	236	-29.19	-43.68	18.74(=16.34+2.4)	26.27(=23.75+2.52)	68.99(=66.25+2.74)	0.1644	0.2304	0.2966
	B_d	0.0	0.0	1.0	25.31	52.78	296	23.48	-47.26	6.23(=3.83+2.4)	4.52(=2.0+2.52)	22.65(=19.9+2.74)	0.1865	0.1353	0.051
$Y_N = 2.52$	M_d	1.0	0.0	1.0	48.2	73.24	353	72.74	-8.48	32.45(=30.06+2.4)	16.95(=14.43+2.52)	23.04(=20.29+2.74)	0.448	0.234	0.1914
$L^*_N = 18.01$	$N0_d$	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
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.01	0	0.0	0.0	84.17(=81.78+2.4)	88.56(=86.04+2.52)	96.44(=93.7+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
greyY _Z =18	$W1_d$	1.13	1.13	1.13	99.98	0.0	0	0.0	0.0	95.0(=92.61+2.4)	99.95(=97.43+2.52)	108.85(=106.11+2.74)	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(=14.71+2.4)	18.0(=15.48+2.52)	19.6(=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	47.29	76.0	33	63.85	41.22	29.01(=29.0+0.01)	16.24(=16.23+0.01)	4.26(=4.25+0.01)	0.5859	0.328	0.1833
	Y_d	1.0	1.0	0.0	88.3	95.88	97	-11.91	95.13	63.74(=63.73+0.01)	72.69(=72.68+0.01)	8.27(=8.26+0.01)	0.4405	0.5023	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.31	158	-68.78	28.11	8.53(=8.52+0.01)	20.05(=20.04+0.01)	9.58(=9.57+0.01)	0.2235	0.5254	0.2263
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.55	236	-29.21	-43.7	18.74(=18.73+0.01)	26.27(=26.26+0.01)	69.02(=69.01+0.01)	0.1643	0.2304	0.2965
$Y_N = 0.0$	B_d	0.0	0.0	1.0	25.29	52.83	296	23.51	-47.3	6.22(=6.21+0.01)	4.51(=4.5+0.01)	22.65(=22.64+0.01)	0.1863	0.1351	0.0509
$L^*_N = 0.0$	M_d	1.0	0.0	1.0	48.2	73.27	353	72.78	-8.48	32.46(=32.45+0.01)	16.95(=16.94+0.01)	23.04(=23.03+0.01)	0.448	0.234	0.1913
	$N0_d$	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
Normalization:	$W0_d$	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
greyY _Z =18	$W1_d$	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	47.29	75.95	33	63.82	41.18	29.0(=24.21+4.79)	16.24(=11.2+5.04)	4.27(=-1.21+5.49)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.29	95.83	97	-11.91	95.09	63.71(=58.92+4.79)	72.66(=67.62+5.04)	8.28(=2.79+5.49)	0.4405	0.5023	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.26	158	-68.73	28.09	8.54(=3.74+4.79)	20.05(=15.01+5.04)	9.59(=4.1+5.49)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.55	236	-29.19	-43.68	18.74(=13.95+4.79)	26.27(=21.23+5.04)	68.99(=63.51+5.49)	0.1644	0.2304	0.2966
$Y_N = 5.04$	B_d	0.0	0.0	1.0	25.31	52.78	296	23.48	-47.26	6.23(=1.44+4.79)	4.52(=-0.25+5.04)	22.65(=17.16+5.49)	0.1865	0.1353	0.051
$L^*_N = 26.85$	M_d	1.0	0.0	1.0	48.2	73.24	353	72.74	-8.48	32.45(=27.66+4.79)	16.95(=11.91+5.04)	23.04(=17.55+5.49)	0.448	0.234	0.1914
	$N0_d$	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
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.01	0	0.0	0.0	84.17(=79.38+4.79)	88.56(=83.52+5.04)	96.44(=90.95+5.49)	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(=-4.76+4.79)	0.02(=-5.01+5.04)	0.02(=-5.46+5.49)	0.3328	0.3328	0.0002
greyY _Z =18	$W1_d$	1.13	1.13	1.13	99.98	0.0	0	0.0	0.0	95.0(=90.21+4.79)	99.95(=94.91+5.04)	108.85(=103.37+5.49)	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(=12.32+4.79)	18.0(=12.96+5.04)	19.6(=14.11+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	47.29	75.95	33	63.82	41.18	29.0(=19.42+9.58)	16.24(=6.16+10.08)	4.27(=-6.7+10.98)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.29	95.83	97	-11.91	95.09	63.71(=54.13+9.58)	72.66(=62.58+10.08)	8.28(=-2.69+10.98)	0.4405	0.5023	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.26	158	-68.73	28.09	8.54(=-1.04+9.58)	20.05(=9.97+10.08)	9.59(=-1.38+10.98)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.55	236	-29.19	-43.68	18.74(=9.16+9.58)	26.27(=16.19+10.08)	68.99(=58.02+10.98)	0.1644	0.2304	0.2966
$Y_N = 10.08$	B_d	0.0	0.0	1.0	25.31	52.78	296	23.48	-47.26	6.23(=-3.34+9.58)	4.52(=-5.55+10.08)	22.65(=11.67+10.98)	0.1865	0.1353	0.051
$L^*_N = 37.99$	M_d	1.0	0.0	1.0	48.2	73.24	353	72.74	-8.48	32.45(=22.87+9.58)	16.95(=6.87+10.08)	23.04(=-12.06+10.98)	0.448	0.234	0.1914
	$N0_d$	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
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.01	0	0.0	0.0	84.17(=74.59+9.58)	88.56(=78.48+10.08)	96.44(=85.47+10.98)	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(=-9.55+9.58)	0.02(=-10.95+10.98)	0.02(=-10.95+10.98)	0.3328	0.3328	0.0002
greyY _Z =18	$W1_d$	1.13	1.13	1.13	99.98	0.0	0	0.0	0.0	95.0(=85.42+9.58)	99.95(=89.87+10.08)	108.85(=97.88+10.98)	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(=7.53+9.58)	18.0(=7.92+10.08)	19.6(=8.62+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	47.29	75.95	33	63.82	41.18	29.0(=9.84+19.16)	16.24(=-3.91+20.16)	4.27(=-17.67+21.95)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.29	95.83	97	-11.91	95.09	63.71(=44.55+19.16)	72.66(=52.5+20.16)	8.28(=-13.66+21.95)	0.4405	0.5023	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.26	158	-68.73	28.09	8.54(=-10.62+19.16)	20.05(=-0.1+20.16)	9.59(=-12.36+21.95)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.55	236	-29.19	-43.68	18.74(=-0.41+19.16)	26.27(=6.11+20.16)	68.99(=47.04+21.95)	0.1644	0.2304	0.2966
$Y_N = 20.16$	B_d	0.0	0.0	1.0	25.31	52.78	296	23.48	-47.26	6.23(=-12.92+19.16)	4.52(=-15.63+20.16)	22.65(=0.7+21.95)	0.1865	0.1353	0.051
$L^*_N = 52.02$	M_d	1.0	0.0	1.0	48.2	73.24	353	72.74	-8.48	32.45(=13.29+19.16)	16.95(=-3.2+20.16)	23.04(=-1.09+21.95)	0.448	0.234	0.1914
	$N0_d$	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
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.01	0	0.0	0.0	84.17(=65.01+19.16)	88.56(=68.4+20.16)	96.44(=74.49+21.95)	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(=-19.13+19.16)	0.02(=-20.13+20.16)	0.02(=-21.92+21.95)	0.3328	0.3328	0.0002
greyY _Z =18	$W1_d$	1.13	1.13	1.13	99.98	0.0	0	0.0	0.0	95.0(=75.84+19.16)	99.95(=79.79+20.16)	108.85(=86.9+21.95)	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(=-2.04+19.16)	18.0(=-2.15+20.16)	19.6(=-2.34+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	47.29	75.95	33	63.82	41.18	29.0(=-9.31+38.32)	16.24(=-24.07+40.32)	4.27(=-39.62+43.9)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.29	95.83	97	-11.91	95.09	63.71(=25.39+38.32)	72.66(=32.34+40.32)	8.28(=-35.61+43.9)	0.4405	0.5023	0.8204
LabC*h _{ab}	G_d	0.0	1.0	0.0	51.89	74.26	158	-68.73	28.09	8.54(=-29.78+38.32)	20.05(=-20.26+40.32)	9.59(=-34.31+43.9)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.29	52.55	236	-29.19	-43.68	18.74(=-19.57+38.32)	26.27(=-14.04+40.32)	68.99(=25.09+43.9)	0.1644	0.2304	0.2966
$Y_N = 40.32$	B_d	0.0	0.0	1.0	25.31	52.78	296	23.48	-47.26	6.23(=-32.08+38.32)	4.52(=-35.79+40.32)	22.65(=-21.24+43.9)	0.1865	0.1353	0.051
$L^*_N = 69.7$	M_d	1.0	0.0	1.0	48.2	73.24	353	72.74	-8.48	32.45(=-5.86+38.32)	16.95(=-23.36+40.32)	23.04(=-20.85+43.9)	0.448	0.234	0.1914
	$N0_d$	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
Normalization:	$W0_d$	1.0	1.0	1.0	95.4	0.01	0	0.0	0.0	84.17(=45.85+38.32)	88.56(=48.24+40.32)	96.44(=52.54+43.9)	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(=-38.29+38.32)	0.02(=-40.29+40.32)	0.02(=-43.87+43.9)	0.3328	0.3328	0.0002
greyY _Z =18	$W1_d$	1.13	1.13	1.13	99.98	0.0	0	0.0	0.0	95.0(=56.68+38.32)	99.95(=59.63+40.32)	108.85(=64.95+43.9)	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(=-21.2+38.32)	18.0(=-22.31+40.32)	19.6(=-24.29+43.9)	0.3127	0.329	0.2032