

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
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	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
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	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
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}	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
LabC*h _{ab}	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
D65 reflection:	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
$Y_N = 0.0$	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
$L^*_N = 0.0$	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
Normalization:	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
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}	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	47.3	75.97	33	63.83	41.19	29.02(=29.02+0.0)	16.25(=16.25+0.0)	4.27(=4.27+0.0)	0.5858	0.328	0.1834
LabC*h _{ab}	Y_d	1.0	1.0	0.0	88.3	95.85	97	-11.91	95.1	63.74(=63.74+0.0)	72.69(=72.69+0.0)	8.28(=8.28+0.0)	0.4405	0.5023	0.8204
D65 reflection:	G_d	0.0	1.0	0.0	51.9	74.27	158	-68.74	28.1	8.54(=8.54+0.0)	20.06(=20.06+0.0)	9.59(=9.59+0.0)	0.2236	0.5253	0.2264
$Y_N = 0.0$	C_d	0.0	1.0	1.0	58.3	52.56	236	-29.19	-43.69	18.75(=18.75+0.0)	26.28(=26.28+0.0)	69.02(=69.02+0.0)	0.1644	0.2304	0.2966
$L^*_N = 0.0$	B_d	0.0	0.0	1.0	25.32	52.78	296	23.49	-47.26	6.23(=6.23+0.0)	4.52(=4.52+0.0)	22.66(=22.66+0.0)	0.1865	0.1353	0.051
Normalization:	M_d	1.0	0.0	1.0	48.21	73.25	353	72.76	-8.48	32.47(=32.47+0.0)	16.96(=16.96+0.0)	23.05(=23.05+0.0)	0.448	0.234	0.1914
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}	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	47.3	75.97	33	63.83	41.19	29.02(=28.42+0.6)	16.25(=15.62+0.63)	4.27(=3.58+0.69)	0.5858	0.328	0.1834
LabC*h _{ab}	Y_d	1.0	1.0	0.0	88.3	95.85	97	-11.91	95.1	63.74(=63.14+0.6)	72.69(=72.06+0.63)	8.28(=7.59+0.69)	0.4405	0.5023	0.8204
D65 reflection:	G_d	0.0	1.0	0.0	51.9	74.27	158	-68.74	28.1	8.54(=7.94+0.6)	20.06(=19.43+0.63)	9.59(=8.9+0.69)	0.2236	0.5253	0.2264
$Y_N = 0.63$	C_d	0.0	1.0	1.0	58.3	52.56	236	-29.19	-43.69	18.75(=18.15+0.6)	26.28(=25.65+0.63)	69.02(=68.34+0.69)	0.1644	0.2304	0.2966
$L^*_N = 5.69$	B_d	0.0	0.0	1.0	25.32	52.78	296	23.49	-47.26	6.23(=5.63+0.6)	4.52(=3.89+0.63)	22.66(=21.97+0.69)	0.1865	0.1353	0.051
Normalization:	M_d	1.0	0.0	1.0	48.21	73.25	353	72.76	-8.48	32.47(=31.87+0.6)	16.96(=16.33+0.63)	23.05(=22.36+0.69)	0.448	0.234	0.1914
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+0.6)	0.02(=0.02+0.63)	0.02(=0.02+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(=0.02+0.6)	0.02(=0.02+0.63)	0.02(=0.02+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}	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	47.3	75.97	33	63.83	41.19	29.02(=27.82+1.2)	16.25(=14.99+1.26)	4.27(=2.9+1.37)	0.5858	0.328	0.1834
LabC*h _{ab}	Y_d	1.0	1.0	0.0	88.3	95.85	97	-11.91	95.1	63.74(=62.54+1.2)	72.69(=71.43+1.26)	8.28(=6.91+1.37)	0.4405	0.5023	0.8204
D65 reflection:	G_d	0.0	1.0	0.0	51.9	74.27	158	-68.74	28.1	8.54(=7.34+1.2)	20.06(=18.8+1.26)	9.59(=8.22+1.37)	0.2236	0.5253	0.2264
$Y_N = 1.26$	C_d	0.0	1.0	1.0	58.3	52.56	236	-29.19	-43.69	18.75(=17.55+1.2)	26.28(=25.02+1.26)	69.02(=67.65+1.37)	0.1644	0.2304	0.2966
$L^*_N = 11.0$	B_d	0.0	0.0	1.0	25.32	52.78	296	23.49	-47.26	6.23(=5.03+1.2)	4.52(=3.26+1.26)	22.66(=21.29+1.37)	0.1865	0.1353	0.051
Normalization:	M_d	1.0	0.0	1.0	48.21	73.25	353	72.76	-8.48	32.47(=31.27+1.2)	16.96(=15.7+1.26)	23.05(=21.68+1.37)	0.448	0.234	0.1914
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+1.2)	0.02(=0.02+1.26)	0.02(=0.02+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(=0.02+1.2)	0.02(=0.02+1.26)	0.02(=0.02+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}	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	47.3	75.97	33	63.83	41.19	29.02(=26.62+2.4)	16.25(=13.73+2.52)	4.27(=1.53+2.74)	0.5858	0.328	0.1834
LabC*h _{ab}	Y_d	1.0	1.0	0.0	88.3	95.85	97	-11.91	95.1	63.74(=61.35+2.4)	72.69(=70.17+2.52)	8.28(=5.54+2.74)	0.4405	0.5023	0.8204
D65 reflection:	G_d	0.0	1.0	0.0	51.9	74.27	158	-68.74	28.1	8.54(=6.14+2.4)	20.06(=17.54+2.52)	9.59(=6.85+2.74)	0.2236	0.5253	0.2264
$Y_N = 2.52$	C_d	0.0	1.0	1.0	58.3	52.56	236	-29.19	-43.69	18.75(=16.35+2.4)	26.28(=23.76+2.52)	69.02(=66.28+2.74)	0.1644	0.2304	0.2966
$L^*_N = 18.01$	B_d	0.0	0.0	1.0	25.32	52.78	296	23.49	-47.26	6.23(=3.83+2.4)	4.52(=2.0+2.52)	22.66(=19.91+2.74)	0.1865	0.1353	0.051
Normalization:	M_d	1.0	0.0	1.0	48.21	73.25	353	72.76	-8.48	32.47(=30.07+2.4)	16.96(=14.44+2.52)	23.05(=20.3+2.74)	0.448	0.234	0.1914
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+2.4)	0.02(=0.02+2.52)	0.02(=0.02+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(=0.02+2.4)	0.02(=0.02+2.52)	0.02(=0.02+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	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
$Y_N = 0.0$	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
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	47.3	75.97	33	63.83	41.19	29.02(=24.23+4.79)	16.25(=11.21+5.04)	4.27(=-1.21+5.49)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.3	95.85	97	-11.91	95.1	63.74(=58.95+4.79)	72.69(=67.65+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	51.9	74.27	158	-68.74	28.1	8.54(=3.75+4.79)	20.06(=15.02+5.04)	9.59(=4.1+5.49)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.3	52.56	236	-29.19	-43.69	18.75(=13.96+4.79)	26.28(=21.24+5.04)	69.02(=63.54+5.49)	0.1644	0.2304	0.2966
$Y_N = 5.04$	B_d	0.0	0.0	1.0	25.32	52.78	296	23.49	-47.26	6.23(=1.44+4.79)	4.52(=-1.17+5.04)	22.66(=17.17+5.49)	0.1865	0.1353	0.051
$L^*_N = 26.85$	M_d	1.0	0.0	1.0	48.21	73.25	353	72.76	-8.48	32.47(=27.68+4.79)	16.96(=11.92+5.04)	23.05(=17.56+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	95.41	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
	$N1_d$	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	47.3	75.97	33	63.83	41.19	29.02(=19.44+9.58)	16.25(=6.17+10.08)	4.27(=-6.7+10.98)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.3	95.85	97	-11.91	95.1	63.74(=54.16+9.58)	72.69(=62.61+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	51.9	74.27	158	-68.74	28.1	8.54(=-1.03+9.58)	20.06(=9.98+10.08)	9.59(=-1.38+10.98)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.3	52.56	236	-29.19	-43.69	18.75(=9.17+9.58)	26.28(=16.2+10.08)	69.02(=58.05+10.98)	0.1644	0.2304	0.2966
$Y_N = 10.08$	B_d	0.0	0.0	1.0	25.32	52.78	296	23.49	-47.26	6.23(=-3.34+9.58)	4.52(=-5.55+10.08)	22.66(=11.68+10.98)	0.1865	0.1353	0.051
$L^*_N = 37.99$	M_d	1.0	0.0	1.0	48.21	73.25	353	72.76	-8.48	32.47(=22.89+9.58)	16.96(=6.88+10.08)	23.05(=12.07+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(=-10.05+10.08)	0.02(=-10.95+10.98)	0.3328	0.3328	0.0002
Normalization:	$W0_d$	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
	$N1_d$	0.0	0.0	0.0	0.18	0.05	0	0.04	0.03	0.02(=-9.55+9.58)	0.02(=-10.05+10.08)	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	47.3	75.97	33	63.83	41.19	29.02(=9.86+19.16)	16.25(=-3.9+20.16)	4.27(=-17.67+21.95)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.3	95.85	97	-11.91	95.1	63.74(=44.58+19.16)	72.69(=52.53+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	51.9	74.27	158	-68.74	28.1	8.54(=-10.61+19.16)	20.06(=-0.09+20.16)	9.59(=-12.35+21.95)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.3	52.56	236	-29.19	-43.69	18.75(=-0.4+19.16)	26.28(=6.12+20.16)	69.02(=47.07+21.95)	0.1644	0.2304	0.2966
$Y_N = 20.16$	B_d	0.0	0.0	1.0	25.32	52.78	296	23.49	-47.26	6.23(=-12.92+19.16)	4.52(=-15.63+20.16)	22.66(=0.71+21.95)	0.1865	0.1353	0.051
$L^*_N = 52.02$	M_d	1.0	0.0	1.0	48.21	73.25	353	72.76	-8.48	32.47(=13.31+19.16)	16.96(=-3.19+20.16)	23.05(=1.21+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	95.41	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
	$N1_d$	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	47.3	75.97	33	63.83	41.19	29.02(=-9.29+38.32)	16.25(=-24.06+40.32)	4.27(=-39.62+43.9)	0.5858	0.328	0.1834
	Y_d	1.0	1.0	0.0	88.3	95.85	97	-11.91	95.1	63.74(=25.42+38.32)	72.69(=32.37+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	51.9	74.27	158	-68.74	28.1	8.54(=-29.77+38.32)	20.06(=-20.25+40.32)	9.59(=-34.3+43.9)	0.2236	0.5253	0.2264
D65 reflection:	C_d	0.0	1.0	1.0	58.3	52.56	236	-29.19	-43.69	18.75(=-19.56+38.32)	26.28(=-14.03+40.32)	69.02(=25.12+43.9)	0.1644	0.2304	0.2966
$Y_N = 40.32$	B_d	0.0	0.0	1.0	25.32	52.78	296	23.49	-47.26	6.23(=-32.08+38.32)	4.52(=-35.79+40.32)	22.66(=-21.23+43.9)	0.1865	0.1353	0.051
$L^*_N = 69.7$	M_d	1.0	0.0	1.0	48.21	73.25	353	72.76	-8.48	32.47(=-5.84+38.32)	16.96(=-23.35+40.32)	23.05(=-20.84+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	95.41	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
	$N1_d$	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(=65.0+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