Colorimetric "Standard data": Television Luminous System TLS18 for CIE lightness L^*_N=18 of black for illuminant D65

System TLS18
sRGB system
D65 reflection:
Y_N = 2.52
L^*_N = 18.01

Color	r=olv^*_1	g=olv^*_2	b=olv^*_3	L^*	a^*	b^*	C^*_{ab}	h_{ab}	X=XYZ_1	Y=XYZ_2	Z=XYZ_3	x	y	Y/88.59
O (R)	1.0	0.0	0.0	52.76	71.63	49.88	87.29	35	37.89	20.83	4.41	0.6003	0.3299	0.2351
Y	1.0	1.0	0.0	92.74	−20.03	84.97	87.3	103	68.67	82.37	14.66	0.4144	0.4971	0.9298
L (G)	0.0	1.0	0.0	84.0	−78.99	73.94	108.2	137	33.17	64.07	13.0	0.3009	0.5812	0.7231
C	0.0	1.0	1.0	87.14	−44.42	−13.12	46.33	196	48.71	70.29	94.77	0.2279	0.3288	0.7934
V (B)	0.0	0.0	1.0	31.9	24.46	−37.38	44.68	303	9.36	7.04	23.5	0.2346	0.1764	0.0795
M	1.0	0.0	1.0	59.01	89.33	−19.43	91.42	348	53.42	27.04	44.81	0.4265	0.2158	0.3052
N	0.0	0.0	0.0	18.01	0.0	0.0	0.01	0	2.4	2.52	2.74	0.3127	0.329	0.0284
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0
N0	0.0	0.0	0.0	18.01	0.0	0.0	0.01	0	2.4	2.52	2.74	0.3127	0.329	0.0284
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

Colorimetric "Adapted data (a)": Television Luminous System TLS18a for CIE lightness L^*_N=18 of black for illuminant D65

System TLS18a
sRGB system
D65 reflection:
Y_N = 2.52
L^*_N = 18.01

Color	r=olv^*_1	g=olv^*_2	b=olv^*_3	L^*_a	a^*_a	b^*_a	$C^*_{ab,a}$	$h_{ab,a}$	X_a=XYZ_{1a}	Y_a=XYZ_{2a}	Z_a=XYZ_{3a}	x_a	y_a	Y_a/88.59
O (R)	1.0	0.0	0.0	52.76	71.63	49.88	87.29	35	37.89	20.83	4.41	0.6003	0.3299	0.2351
Y	1.0	1.0	0.0	92.74	−20.03	84.97	87.3	103	68.67	82.37	14.66	0.4144	0.4971	0.9298
L (G)	0.0	1.0	0.0	84.0	−78.99	73.94	108.2	137	33.17	64.07	13.0	0.3009	0.5812	0.7231
C	0.0	1.0	1.0	87.14	−44.42	−13.12	46.33	196	48.71	70.29	94.77	0.2279	0.3288	0.7934
V (B)	0.0	0.0	1.0	31.9	24.46	−37.38	44.68	303	9.36	7.04	23.5	0.2346	0.1764	0.0795
M	1.0	0.0	1.0	59.01	89.33	−19.43	91.42	348	53.42	27.04	44.81	0.4265	0.2158	0.3052
N	0.0	0.0	0.0	18.01	0.0	0.0	0.01	0	2.4	2.52	2.74	0.3127	0.329	0.0284
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0
N0	0.0	0.0	0.0	18.01	0.0	0.0	0.01	0	2.4	2.52	2.74	0.3127	0.329	0.0284
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2	88.59	96.46	0.3127	0.329	1.0

Colorimetric "Adapted data (a0)": Television Luminous System TLS00a0 for CIE lightness L^*_N=00 of black for illuminant D65

System TLS00a0
sRGB system
D65 reflection:
Y_N = 0.0
L^*_N = 0.0
***k* = 88.59 / (88.59 − 2.52) = 1.029**

Color	r=olv^*_1	g=olv^*_2	b=olv^*_3	L^*_{a0}	a^*_{a0}	b^*_{a0}	$C^*_{ab,a0}$	$h_{ab,a0}$	X_{a0}=XYZ_{1a0}	Y_{a0}=XYZ_{2a0}	Z_{a0}=XYZ_{3a0}	x_{a0}	y_{a0}	Y_{a0}/88.59
O (R)	1.0	0.0	0.0	50.5	76.92	64.55	100.42	40	36.54=***k***(37.89−2.4)	18.84=***k***(20.83−2.52)	1.71=***k***(4.41−2.74)	0.64	0.33	0.2127
Y	1.0	1.0	0.0	92.66	−20.68	90.75	93.08	103	68.22=***k***(68.67−2.4)	82.19=***k***(82.37−2.52)	12.27=***k***(14.66−2.74)	0.4193	0.5053	0.9278
L (G)	0.0	1.0	0.0	83.62	−82.74	79.9	115.03	136	31.68=***k***(33.17−2.4)	63.35=***k***(64.07−2.52)	10.55=***k***(13.0−2.74)	0.3	0.6	0.715
C	0.0	1.0	1.0	86.88	−46.15	−13.54	48.11	196	47.67=***k***(48.71−2.4)	69.76=***k***(70.29−2.52)	94.72=***k***(94.77−2.74)	0.2247	0.3288	0.7874
V (B)	0.0	0.0	1.0	25.72	31.45	−44.28	54.32	305	7.17=***k***(9.36−2.4)	4.65=***k***(7.04−2.52)	21.37=***k***(23.5−2.74)	0.2161	0.1402	0.0525
M	1.0	0.0	1.0	57.3	94.35	−20.68	96.59	348	52.52=***k***(53.42−2.4)	25.24=***k***(27.04−2.52)	43.3=***k***(44.81−2.74)	0.4339	0.2085	0.2849
N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	358	0.0=***k***(2.4−2.4)	0.0=***k***(2.52−2.52)	0.0=***k***(2.74−2.74)	0.0	0.0	0.0
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2=***k***(84.2−2.4)	88.59=***k***(88.59−2.52)	96.46=***k***(96.46−2.74)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	358	0.0=***k***(2.4−2.4)	0.0=***k***(2.52−2.52)	0.0=***k***(2.74−2.74)	0.0	0.0	0.0
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	0	84.2=***k***(84.2−2.4)	88.59=***k***(88.59−2.52)	96.46=***k***(96.46−2.74)	0.3127	0.329	1.0