Colorimetric "Standard data": Television Luminous System TLS11 for CIE lightness L^*_N=11 of black for illuminant D65

System TLS11
LCD monitor
D65 reflection:
Y_N = 1.23
L^*_N = 10.76

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	54.21	78.64	58.52	98.03	37	42.14	22.17	3.33	0.623	0.3278	0.2503
Y	1.0	1.0	0.0	94.11	−15.83	89.38	90.77	100	73.43	85.54	13.8	0.425	0.4951	0.9655
L (G)	0.0	1.0	0.0	84.21	−81.1	76.13	111.24	137	32.83	64.47	12.29	0.2996	0.5883	0.7278
C	0.0	1.0	1.0	87.18	−51.1	−9.41	51.97	190	46.37	70.38	89.45	0.2249	0.3413	0.7944
V (B)	0.0	0.0	1.0	33.09	59.26	−94.9	111.9	302	15.11	7.58	78.79	0.1489	0.0747	0.0856
M	1.0	0.0	1.0	59.56	89.09	−50.27	102.3	331	54.26	27.64	80.12	0.3349	0.1706	0.312
N	0.0	0.0	0.0	10.76	5.51	−3.96	6.79	324	1.34	1.23	1.71	0.3134	0.2867	0.0139
W	1.0	1.0	1.0	95.41	−0.21	4.78	4.79	93	84.08	88.59	89.43	0.3208	0.338	1.0
N0	0.0	0.0	0.0	10.76	5.51	−3.96	6.79	324	1.34	1.23	1.71	0.3134	0.2867	0.0139
W1	1.0	1.0	1.0	95.41	−0.21	4.78	4.79	93	84.08	88.59	89.43	0.3208	0.338	1.0

Colorimetric "Adapted data (a)": Television Luminous System TLS11a for CIE lightness L^*_N=11 of black for illuminant D65

System TLS11a
LCD monitor
D65 reflection:
Y_N = 1.23
L^*_N = 10.76

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	54.21	76.07	58.0	95.66	37	41.29	22.17	3.41	0.6174	0.3315	0.2503
Y	1.0	1.0	0.0	94.11	−15.7	84.73	86.17	101	73.49	85.54	15.81	0.4203	0.4892	0.9655
L (G)	0.0	1.0	0.0	84.21	−81.64	72.51	109.2	138	32.68	64.47	13.72	0.2948	0.5815	0.7278
C	0.0	1.0	1.0	87.18	−51.44	−13.34	53.15	195	46.25	70.38	95.2	0.2184	0.3322	0.7944
V (B)	0.0	0.0	1.0	33.09	55.26	−93.24	108.4	301	14.45	7.58	76.63	0.1465	0.0768	0.0856
M	1.0	0.0	1.0	59.56	86.88	−51.35	100.93	329	53.4	27.64	81.56	0.3284	0.17	0.312
N	0.0	0.0	0.0	10.76	0.0	0.0	0.01	0	1.17	1.23	1.34	0.3127	0.329	0.0139
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	10.76	0.0	0.0	0.01	0	1.17	1.23	1.34	0.3127	0.329	0.0139
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
LCD monitor
D65 reflection:
Y_N = 0.0
L^*_N = 0.0
k = 88.59 / (88.59 − 1.23) = 1.014

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	53.21	78.53	65.65	102.36	40	40.69=k(41.29−1.17)	21.24=k(22.17−1.23)	2.1=k(3.41−1.34)	0.6355	0.3317	0.2397
Y	1.0	1.0	0.0	94.1	−15.93	87.27	88.72	100	73.34=k(73.49−1.17)	85.49=k(85.54−1.23)	14.68=k(15.81−1.34)	0.4227	0.4927	0.9651
L (G)	0.0	1.0	0.0	84.03	−83.48	75.12	112.31	138	31.96=k(32.68−1.17)	64.13=k(64.47−1.23)	12.56=k(13.72−1.34)	0.2941	0.5903	0.7239
C	0.0	1.0	1.0	87.06	−52.42	−13.54	54.15	194	45.72=k(46.25−1.17)	70.12=k(70.38−1.23)	95.18=k(95.2−1.34)	0.2167	0.3323	0.7915
V (B)	0.0	0.0	1.0	30.5	60.26	−97.5	114.62	302	13.47=k(14.45−1.17)	6.44=k(7.58−1.23)	76.35=k(76.63−1.34)	0.14	0.0669	0.0727
M	1.0	0.0	1.0	58.77	89.16	−52.55	103.5	329	52.97=k(53.4−1.17)	26.78=k(27.64−1.23)	81.35=k(81.56−1.34)	0.3288	0.1663	0.3023
N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	358	0.0=k(1.17−1.17)	0.0=k(1.23−1.23)	0.0=k(1.34−1.34)	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(84.2−1.17)	88.59=k(88.59−1.23)	96.46=k(96.46−1.34)	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(1.17−1.17)	0.0=k(1.23−1.23)	0.0=k(1.34−1.34)	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(84.2−1.17)	88.59=k(88.59−1.23)	96.46=k(96.46−1.34)	0.3127	0.329	1.0