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	hab	X=XYZ1	Y=XYZ2	Z=XYZ3	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	hab,a	Xa=XYZ1a	Ya=XYZ2a	Za=XYZ3a	xa	ya	Ya/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	hab,a0	Xa0=XYZ1a0	Ya0=XYZ2a0	Za0=XYZ3a0	xa0	ya0	Ya0/88.59
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

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	hab,a0	Xa0=XYZ1a0	Ya0=XYZ2a0	Za0=XYZ3a0	xa0	ya0	Ya0/88.59
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

Calculated colorimetric data: Television Luminous Systems TLSxxa for CIE lightness L^*_N=00, 06, 11, 18 of black for illuminant D65

System TLS00a
LCD monitor
D65 reflection:
Y_N = 0.0
L^*_N = 0.0
n = 88.59 / (88.59 + 0.0) = 1.0

Color	r=olv*1	g=olv*2	b=olv*3	L*a	a*a	b*a	C*ab,a	hab,a	Xa=XYZ1a	Ya=XYZ2a	Za=XYZ3a	xa	ya	Ya/88.59
O (R)	1.0	0.0	0.0	53.21	78.53	65.65	102.36	40	40.69=*n*(40.69+0.0)	21.24=*n*(21.24+0.0)	2.1=*n*(2.1+0.0)	0.6355	0.3317	0.2397
Y	1.0	1.0	0.0	94.1	−15.93	87.27	88.72	100	73.34=*n*(73.34+0.0)	85.49=*n*(85.49+0.0)	14.68=*n*(14.68+0.0)	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=*n*(31.96+0.0)	64.13=*n*(64.13+0.0)	12.56=*n*(12.56+0.0)	0.2941	0.5903	0.7239
C	0.0	1.0	1.0	87.06	−52.42	−13.54	54.15	194	45.72=*n*(45.72+0.0)	70.12=*n*(70.12+0.0)	95.18=*n*(95.18+0.0)	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=*n*(13.47+0.0)	6.44=*n*(6.44+0.0)	76.35=*n*(76.35+0.0)	0.14	0.0669	0.0727
M	1.0	0.0	1.0	58.77	89.16	−52.55	103.5	329	52.97=*n*(52.97+0.0)	26.78=*n*(26.78+0.0)	81.35=*n*(81.35+0.0)	0.3288	0.1663	0.3023
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	358	0.0=*n*(0.0+0.0)	0.0=*n*(0.0+0.0)	0.0=*n*(0.0+0.0)	0.0	0.0	0.0
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+0.0)	88.59=*n*(88.59+0.0)	96.46=*n*(96.46+0.0)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	358	0.0=*n*(0.0+0.0)	0.0=*n*(0.0+0.0)	0.0=*n*(0.0+0.0)	0.0	0.0	0.0
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+0.0)	88.59=*n*(88.59+0.0)	96.46=*n*(96.46+0.0)	0.3127	0.329	1.0

System TLS06a
LCD monitor
D65 reflection:
Y_N = 0.63
L^*_N = 5.69
n = 88.59 / (88.59 + 0.63) = 0.993

Color	r=olv*1	g=olv*2	b=olv*3	L*a	a*a	b*a	C*ab,a	hab,a	Xa=XYZ1a	Ya=XYZ2a	Za=XYZ3a	xa	ya	Ya/88.59
O (R)	1.0	0.0	0.0	53.72	77.26	61.39	98.68	38	41.0=*n*(40.69+0.6)	21.71=*n*(21.24+0.63)	2.77=*n*(2.1+0.69)	0.6261	0.3316	0.2451
Y	1.0	1.0	0.0	94.11	−15.81	85.96	87.4	100	73.41=*n*(73.34+0.6)	85.52=*n*(85.49+0.63)	15.25=*n*(14.68+0.69)	0.4215	0.4909	0.9653
L (G)	0.0	1.0	0.0	84.12	−82.54	73.77	110.71	138	32.33=*n*(31.96+0.6)	64.31=*n*(64.13+0.63)	13.15=*n*(12.56+0.69)	0.2945	0.5858	0.7259
C	0.0	1.0	1.0	87.12	−51.92	−13.44	53.64	195	45.99=*n*(45.72+0.6)	70.25=*n*(70.12+0.63)	95.19=*n*(95.18+0.69)	0.2175	0.3323	0.793
V (B)	0.0	0.0	1.0	31.86	57.6	−95.27	111.34	301	13.97=*n*(13.47+0.6)	7.02=*n*(6.44+0.63)	76.49=*n*(76.35+0.69)	0.1433	0.072	0.0793
M	1.0	0.0	1.0	59.18	87.99	−51.93	102.18	329	53.19=*n*(52.97+0.6)	27.22=*n*(26.78+0.63)	81.46=*n*(81.35+0.69)	0.3286	0.1682	0.3073
N	0.0	0.0	0.0	5.65	0.0	0.0	0.0	358	0.59=*n*(0.0+0.6)	0.63=*n*(0.0+0.63)	0.68=*n*(0.0+0.69)	0.3127	0.329	0.0071
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+0.6)	88.59=*n*(88.59+0.63)	96.46=*n*(96.46+0.69)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	5.65	0.0	0.0	0.0	358	0.59=*n*(0.0+0.6)	0.63=*n*(0.0+0.63)	0.68=*n*(0.0+0.69)	0.3127	0.329	0.0071
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+0.6)	88.59=*n*(88.59+0.63)	96.46=*n*(96.46+0.69)	0.3127	0.329	1.0

System TLS11a
LCD monitor
D65 reflection:
Y_N = 1.26
L^*_N = 11.0
n = 88.59 / (88.59 + 1.26) = 0.986

Color	r=olv*1	g=olv*2	b=olv*3	L*a	a*a	b*a	C*ab,a	hab,a	Xa=XYZ1a	Ya=XYZ2a	Za=XYZ3a	xa	ya	Ya/88.59
O (R)	1.0	0.0	0.0	54.22	76.05	57.92	95.59	37	41.3=*n*(40.69+1.2)	22.18=*n*(21.24+1.26)	3.43=*n*(2.1+1.37)	0.6172	0.3315	0.2504
Y	1.0	1.0	0.0	94.11	−15.69	84.7	86.14	101	73.49=*n*(73.34+1.2)	85.54=*n*(85.49+1.26)	15.82=*n*(14.68+1.37)	0.4203	0.4892	0.9655
L (G)	0.0	1.0	0.0	84.21	−81.61	72.48	109.16	138	32.69=*n*(31.96+1.2)	64.48=*n*(64.13+1.26)	13.73=*n*(12.56+1.37)	0.2948	0.5814	0.7278
C	0.0	1.0	1.0	87.18	−51.43	−13.34	53.14	195	46.26=*n*(45.72+1.2)	70.38=*n*(70.12+1.26)	95.2=*n*(95.18+1.37)	0.2184	0.3322	0.7944
V (B)	0.0	0.0	1.0	33.12	55.21	−93.2	108.33	301	14.46=*n*(13.47+1.2)	7.59=*n*(6.44+1.26)	76.63=*n*(76.35+1.37)	0.1466	0.077	0.0857
M	1.0	0.0	1.0	59.57	86.86	−51.33	100.9	329	53.4=*n*(52.97+1.2)	27.65=*n*(26.78+1.26)	81.56=*n*(81.35+1.37)	0.3284	0.17	0.3121
N	0.0	0.0	0.0	10.87	0.0	0.0	0.0	358	1.18=*n*(0.0+1.2)	1.24=*n*(0.0+1.26)	1.35=*n*(0.0+1.37)	0.3127	0.329	0.014
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+1.2)	88.59=*n*(88.59+1.26)	96.46=*n*(96.46+1.37)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	10.87	0.0	0.0	0.0	358	1.18=*n*(0.0+1.2)	1.24=*n*(0.0+1.26)	1.35=*n*(0.0+1.37)	0.3127	0.329	0.014
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+1.2)	88.59=*n*(88.59+1.26)	96.46=*n*(96.46+1.37)	0.3127	0.329	1.0

System TLS18a
LCD monitor
D65 reflection:
Y_N = 2.52
L^*_N = 18.01
n = 88.59 / (88.59 + 2.52) = 0.972

Color	r=olv*1	g=olv*2	b=olv*3	L*a	a*a	b*a	C*ab,a	hab,a	Xa=XYZ1a	Ya=XYZ2a	Za=XYZ3a	xa	ya	Ya/88.59
O (R)	1.0	0.0	0.0	55.18	73.73	52.49	90.51	35	41.89=*n*(40.69+2.4)	23.1=*n*(21.24+2.52)	4.71=*n*(2.1+2.74)	0.601	0.3314	0.2608
Y	1.0	1.0	0.0	94.13	−15.46	82.32	83.76	101	73.64=*n*(73.34+2.4)	85.58=*n*(85.49+2.52)	16.94=*n*(14.68+2.74)	0.418	0.4858	0.966
L (G)	0.0	1.0	0.0	84.39	−79.83	70.06	106.23	139	33.4=*n*(31.96+2.4)	64.81=*n*(64.13+2.52)	14.88=*n*(12.56+2.74)	0.2954	0.5731	0.7316
C	0.0	1.0	1.0	87.31	−50.48	−13.14	52.17	195	46.79=*n*(45.72+2.4)	70.63=*n*(70.12+2.52)	95.22=*n*(95.18+2.74)	0.22	0.3322	0.7973
V (B)	0.0	0.0	1.0	35.43	51.08	−89.43	103.0	300	15.43=*n*(13.47+2.4)	8.71=*n*(6.44+2.52)	76.9=*n*(76.35+2.74)	0.1527	0.0862	0.0984
M	1.0	0.0	1.0	60.33	84.67	−50.18	98.43	329	53.83=*n*(52.97+2.4)	28.49=*n*(26.78+2.52)	81.77=*n*(81.35+2.74)	0.328	0.1736	0.3216
N	0.0	0.0	0.0	17.69	0.0	0.0	0.0	0	2.33=*n*(0.0+2.4)	2.45=*n*(0.0+2.52)	2.67=*n*(0.0+2.74)	0.3127	0.329	0.0277
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+2.4)	88.59=*n*(88.59+2.52)	96.46=*n*(96.46+2.74)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	17.69	0.0	0.0	0.0	0	2.33=*n*(0.0+2.4)	2.45=*n*(0.0+2.52)	2.67=*n*(0.0+2.74)	0.3127	0.329	0.0277
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+2.4)	88.59=*n*(88.59+2.52)	96.46=*n*(96.46+2.74)	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

Calculated colorimetric data: Television Luminous Systems TLSxxa for CIE lightness L^*_N=27, 33, 52, 70 of black for illuminant D65

System TLS27a
LCD monitor

D65 reflection:
Y_N = 5.04
L^*_N = 26.85
n = 88.59 / (88.59 + 5.04) = 0.946

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	56.94	69.53	44.95	82.8	33	43.03=*n*(40.69+4.79)	24.86=*n*(21.24+5.04)	7.18=*n*(2.1+5.49)	0.5732	0.3312	0.2807
Y	1.0	1.0	0.0	94.17	−15.02	78.03	79.46	101	73.92=*n*(73.34+4.79)	85.66=*n*(85.49+5.04)	19.08=*n*(14.68+5.49)	0.4138	0.4795	0.9669
L (G)	0.0	1.0	0.0	84.71	−76.5	65.8	100.91	139	34.77=*n*(31.96+4.79)	65.45=*n*(64.13+5.04)	17.07=*n*(12.56+5.49)	0.2964	0.558	0.7388
C	0.0	1.0	1.0	87.54	−48.68	−12.75	50.33	195	47.79=*n*(45.72+4.79)	71.11=*n*(70.12+5.04)	95.25=*n*(95.18+5.49)	0.2232	0.3321	0.8027
V (B)	0.0	0.0	1.0	39.35	44.67	−83.08	94.33	298	17.28=*n*(13.47+4.79)	10.86=*n*(6.44+5.04)	77.43=*n*(76.35+5.49)	0.1637	0.1029	0.1226
M	1.0	0.0	1.0	61.75	80.64	−48.02	93.87	329	54.65=*n*(52.97+4.79)	30.11=*n*(26.78+5.04)	82.16=*n*(81.35+5.49)	0.3274	0.1804	0.3399
N	0.0	0.0	0.0	26.07	0.0	0.0	0.0	0	4.53=*n*(0.0+4.79)	4.77=*n*(0.0+5.04)	5.19=*n*(0.0+5.49)	0.3127	0.329	0.0538
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+4.79)	88.59=*n*(88.59+5.04)	96.46=*n*(96.46+5.49)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	26.07	0.0	0.0	0.0	0	4.53=*n*(0.0+4.79)	4.77=*n*(0.0+5.04)	5.19=*n*(0.0+5.49)	0.3127	0.329	0.0538
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+4.79)	88.59=*n*(88.59+5.04)	96.46=*n*(96.46+5.49)	0.3127	0.329	1.0

System TLS38a
LCD monitor

D65 reflection:
Y_N = 10.08
L^*_N = 37.99
n = 88.59 / (88.59 + 10.08) = 0.898

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	60.0	62.53	35.83	72.06	30	45.14=*n*(40.69+9.58)	28.12=*n*(21.24+10.08)	11.74=*n*(2.1+10.98)	0.531	0.3308	0.3174
Y	1.0	1.0	0.0	94.23	−14.21	70.89	72.3	101	74.45=*n*(73.34+9.58)	85.81=*n*(85.49+10.08)	23.03=*n*(14.68+10.98)	0.4062	0.4682	0.9686
L (G)	0.0	1.0	0.0	85.32	−70.65	58.9	91.98	140	37.29=*n*(31.96+9.58)	66.63=*n*(64.13+10.08)	21.13=*n*(12.56+10.98)	0.2982	0.5328	0.7521
C	0.0	1.0	1.0	87.97	−45.45	−12.05	47.03	195	49.65=*n*(45.72+9.58)	72.01=*n*(70.12+10.08)	95.31=*n*(95.18+10.98)	0.2288	0.3319	0.8128
V (B)	0.0	0.0	1.0	45.41	36.13	−73.38	81.8	296	20.7=*n*(13.47+9.58)	14.83=*n*(6.44+10.08)	78.4=*n*(76.35+10.98)	0.1817	0.1302	0.1675
M	1.0	0.0	1.0	64.24	73.7	−44.27	85.98	329	56.16=*n*(52.97+9.58)	33.1=*n*(26.78+10.08)	82.89=*n*(81.35+10.98)	0.3262	0.1923	0.3736
N	0.0	0.0	0.0	36.08	0.0	0.0	0.0	0	8.6=*n*(0.0+9.58)	9.05=*n*(0.0+10.08)	9.85=*n*(0.0+10.98)	0.3127	0.329	0.1022
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+9.58)	88.59=*n*(88.59+10.08)	96.46=*n*(96.46+10.98)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	36.08	0.0	0.0	0.0	0	8.6=*n*(0.0+9.58)	9.05=*n*(0.0+10.08)	9.85=*n*(0.0+10.98)	0.3127	0.329	0.1022
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+9.58)	88.59=*n*(88.59+10.08)	96.46=*n*(96.46+10.98)	0.3127	0.329	1.0

System TLS52a
LCD monitor

D65 reflection:
Y_N = 20.16
L^*_N = 52.02
n = 88.59 / (88.59 + 20.16) = 0.815

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	64.74	52.23	26.29	58.48	27	48.76=*n*(40.69+19.16)	33.72=*n*(21.24+20.16)	19.6=*n*(2.1+21.95)	0.4776	0.3304	0.3807
Y	1.0	1.0	0.0	94.34	−12.83	60.34	61.69	102	75.35=*n*(73.34+19.16)	86.07=*n*(85.49+20.16)	29.84=*n*(14.68+21.95)	0.394	0.45	0.9715
L (G)	0.0	1.0	0.0	86.34	−61.34	49.09	78.58	141	41.64=*n*(31.96+19.16)	68.67=*n*(64.13+20.16)	28.11=*n*(12.56+21.95)	0.3008	0.4961	0.7751
C	0.0	1.0	1.0	88.71	−40.14	−10.86	41.59	195	52.85=*n*(45.72+19.16)	73.54=*n*(70.12+20.16)	95.42=*n*(95.18+21.95)	0.2383	0.3316	0.8302
V (B)	0.0	0.0	1.0	53.68	26.66	−60.39	66.02	294	26.58=*n*(13.47+19.16)	21.67=*n*(6.44+20.16)	80.08=*n*(76.35+21.95)	0.2071	0.1689	0.2446
M	1.0	0.0	1.0	68.2	63.02	−38.36	73.78	329	58.76=*n*(52.97+19.16)	38.24=*n*(26.78+20.16)	84.15=*n*(81.35+21.95)	0.3244	0.2111	0.4317
N	0.0	0.0	0.0	47.52	0.0	0.0	0.0	0	15.61=*n*(0.0+19.16)	16.42=*n*(0.0+20.16)	17.88=*n*(0.0+21.95)	0.3127	0.329	0.1854
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	353	84.2=*n*(84.2+19.16)	88.59=*n*(88.59+20.16)	96.46=*n*(96.46+21.95)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	47.52	0.0	0.0	0.0	0	15.61=*n*(0.0+19.16)	16.42=*n*(0.0+20.16)	17.88=*n*(0.0+21.95)	0.3127	0.329	0.1854
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	353	84.2=*n*(84.2+19.16)	88.59=*n*(88.59+20.16)	96.46=*n*(96.46+21.95)	0.3127	0.329	1.0

System TLS70a
LCD monitor

D65 reflection:
Y_N = 40.32
L^*_N = 69.7
n = 88.59 / (88.59 + 40.32) = 0.687

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	71.08	39.54	17.7	43.32	24	54.3=*n*(40.69+38.32)	42.31=*n*(21.24+40.32)	31.62=*n*(2.1+43.9)	0.4235	0.3299	0.4775
Y	1.0	1.0	0.0	94.51	−10.74	46.99	48.2	103	76.73=*n*(73.34+38.32)	86.46=*n*(85.49+40.32)	40.26=*n*(14.68+43.9)	0.3772	0.425	0.976
L (G)	0.0	1.0	0.0	87.86	−48.68	37.28	61.32	143	48.3=*n*(31.96+38.32)	71.78=*n*(64.13+40.32)	38.8=*n*(12.56+43.9)	0.304	0.4518	0.8103
C	0.0	1.0	1.0	89.81	−32.56	−9.06	33.81	196	57.76=*n*(45.72+38.32)	75.9=*n*(70.12+40.32)	95.58=*n*(95.18+43.9)	0.2519	0.3311	0.8567
V (B)	0.0	0.0	1.0	63.46	17.92	−45.43	48.85	292	35.59=*n*(13.47+38.32)	32.14=*n*(6.44+40.32)	82.64=*n*(76.35+43.9)	0.2367	0.2137	0.3628
M	1.0	0.0	1.0	73.62	49.05	−30.4	57.71	328	62.73=*n*(52.97+38.32)	46.12=*n*(26.78+40.32)	86.07=*n*(81.35+43.9)	0.3218	0.2366	0.5205
N	0.0	0.0	0.0	59.62	0.0	0.0	0.0	10	26.33=*n*(0.0+38.32)	27.71=*n*(0.0+40.32)	30.17=*n*(0.0+43.9)	0.3127	0.329	0.3128
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+38.32)	88.59=*n*(88.59+40.32)	96.46=*n*(96.46+43.9)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	59.62	0.0	0.0	0.0	10	26.33=*n*(0.0+38.32)	27.71=*n*(0.0+40.32)	30.17=*n*(0.0+43.9)	0.3127	0.329	0.3128
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+38.32)	88.59=*n*(88.59+40.32)	96.46=*n*(96.46+43.9)	0.3127	0.329	1.0

Colorimetric "Standard data": Television Luminous System TLS00 for CIE lightness L^*_N=00 of black for illuminant D65

System TLS00
CRT monitor
D65 reflection:
Y_N = 0.05
L^*_N = 0.46

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	56.02	77.48	66.45	102.07	41	44.38	23.93	2.62	0.6257	0.3374	0.2701
Y	1.0	1.0	0.0	91.93	−12.99	87.13	88.09	98	70.31	80.55	13.19	0.4286	0.491	0.9092
L (G)	0.0	1.0	0.0	80.17	−88.48	73.79	115.22	140	26.35	56.98	10.61	0.2805	0.6066	0.6432
C	0.0	1.0	1.0	84.22	−50.12	−20.03	53.99	202	42.33	64.49	97.58	0.2071	0.3155	0.728
V (B)	0.0	0.0	1.0	33.4	63.27	−100.11	118.43	302	16.02	7.72	86.57	0.1452	0.07	0.0872
M	1.0	0.0	1.0	63.05	89.51	−50.96	103.0	330	60.56	31.65	89.38	0.3335	0.1743	0.3573
N	0.0	0.0	0.0	0.46	−0.16	−0.09	0.2	210	0.04	0.05	0.06	0.2802	0.323	0.0006
W	1.0	1.0	1.0	95.41	4.95	−2.4	5.51	334	86.83	88.59	100.14	0.3151	0.3215	1.0
N0	0.0	0.0	0.0	0.46	−0.16	−0.09	0.2	210	0.04	0.05	0.06	0.2802	0.323	0.0006
W1	1.0	1.0	1.0	95.41	4.95	−2.4	5.51	334	86.83	88.59	100.14	0.3151	0.3215	1.0

Colorimetric "Adapted data (a)": Television Luminous System TLS00a for CIE lightness L^*_N=00 of black for illuminant D65

System TLS00a
CRT monitor
D65 reflection:
Y_N = 0.05
L^*_N = 0.46

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	56.02	74.66	67.9	100.92	42	43.41	23.93	2.42	0.6223	0.343	0.2701
Y	1.0	1.0	0.0	91.93	−17.76	89.45	91.2	101	68.11	80.55	12.28	0.4232	0.5005	0.9092
L (G)	0.0	1.0	0.0	80.17	−92.61	75.83	119.7	141	25.36	56.98	9.92	0.2749	0.6176	0.6432
C	0.0	1.0	1.0	84.22	−54.47	−17.89	57.34	198	40.9	64.49	94.37	0.2048	0.3228	0.728
V (B)	0.0	0.0	1.0	33.4	61.66	−99.21	116.82	302	15.74	7.72	85.31	0.1447	0.071	0.0872
M	1.0	0.0	1.0	63.05	86.31	−49.33	99.42	330	59.22	31.65	87.07	0.3328	0.1779	0.3573
N	0.0	0.0	0.0	0.46	0.0	0.0	0.01	0	0.05	0.05	0.06	0.3127	0.329	0.0006
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	0.46	0.0	0.0	0.01	0	0.05	0.05	0.06	0.3127	0.329	0.0006
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
CRT monitor
D65 reflection:
Y_N = 0.0
L^*_N = 0.0
k = 88.59 / (88.59 − 0.05) = 1.001

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	55.98	74.75	68.26	101.23	42	43.39=k(43.41−0.05)	23.89=k(23.93−0.05)	2.37=k(2.42−0.06)	0.623	0.343	0.2697
Y	1.0	1.0	0.0	91.93	−17.77	89.58	91.32	101	68.1=k(68.11−0.05)	80.54=k(80.55−0.05)	12.23=k(12.28−0.06)	0.4233	0.5006	0.9091
L (G)	0.0	1.0	0.0	80.16	−92.71	75.96	119.86	141	25.33=k(25.36−0.05)	56.96=k(56.98−0.05)	9.87=k(9.92−0.06)	0.2748	0.6181	0.643
C	0.0	1.0	1.0	84.21	−54.52	−17.9	57.39	198	40.88=k(40.9−0.05)	64.48=k(64.49−0.05)	94.37=k(94.37−0.06)	0.2047	0.3228	0.7278
V (B)	0.0	0.0	1.0	33.3	61.86	−99.37	117.06	302	15.7=k(15.74−0.05)	7.68=k(7.72−0.05)	85.31=k(85.31−0.06)	0.1445	0.0706	0.0866
M	1.0	0.0	1.0	63.03	86.39	−49.38	99.51	330	59.2=k(59.22−0.05)	31.62=k(31.65−0.05)	87.07=k(87.07−0.06)	0.3328	0.1777	0.3569
N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=k(0.05−0.05)	0.0=k(0.05−0.05)	0.0=k(0.06−0.06)	0.0	0.0	0.0
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	7	84.2=k(84.2−0.05)	88.59=k(88.59−0.05)	96.46=k(96.46−0.06)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=k(0.05−0.05)	0.0=k(0.05−0.05)	0.0=k(0.06−0.06)	0.0	0.0	0.0
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	7	84.2=k(84.2−0.05)	88.59=k(88.59−0.05)	96.46=k(96.46−0.06)	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
CRT monitor
D65 reflection:
Y_N = 0.0
L^*_N = 0.0
k = 88.59 / (88.59 − 0.05) = 1.001

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	55.98	74.75	68.26	101.23	42	43.39=***k***(43.41−0.05)	23.89=***k***(23.93−0.05)	2.37=***k***(2.42−0.06)	0.623	0.343	0.2697
Y	1.0	1.0	0.0	91.93	−17.77	89.58	91.32	101	68.1=***k***(68.11−0.05)	80.54=***k***(80.55−0.05)	12.23=***k***(12.28−0.06)	0.4233	0.5006	0.9091
L (G)	0.0	1.0	0.0	80.16	−92.71	75.96	119.86	141	25.33=***k***(25.36−0.05)	56.96=***k***(56.98−0.05)	9.87=***k***(9.92−0.06)	0.2748	0.6181	0.643
C	0.0	1.0	1.0	84.21	−54.52	−17.9	57.39	198	40.88=***k***(40.9−0.05)	64.48=***k***(64.49−0.05)	94.37=***k***(94.37−0.06)	0.2047	0.3228	0.7278
V (B)	0.0	0.0	1.0	33.3	61.86	−99.37	117.06	302	15.7=***k***(15.74−0.05)	7.68=***k***(7.72−0.05)	85.31=***k***(85.31−0.06)	0.1445	0.0706	0.0866
M	1.0	0.0	1.0	63.03	86.39	−49.38	99.51	330	59.2=***k***(59.22−0.05)	31.62=***k***(31.65−0.05)	87.07=***k***(87.07−0.06)	0.3328	0.1777	0.3569
N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=***k***(0.05−0.05)	0.0=***k***(0.05−0.05)	0.0=***k***(0.06−0.06)	0.0	0.0	0.0
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	7	84.2=***k***(84.2−0.05)	88.59=***k***(88.59−0.05)	96.46=***k***(96.46−0.06)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=***k***(0.05−0.05)	0.0=***k***(0.05−0.05)	0.0=***k***(0.06−0.06)	0.0	0.0	0.0
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	7	84.2=***k***(84.2−0.05)	88.59=***k***(88.59−0.05)	96.46=***k***(96.46−0.06)	0.3127	0.329	1.0

Calculated colorimetric data: Television Luminous Systems TLSxxa for CIE lightness L^*_N=00, 06, 11, 18 of black for illuminant D65

System TLS00a
CRT monitor
D65 reflection:
Y_N = 0.0
L^*_N = 0.0
n = 88.59 / (88.59 + 0.0) = 1.0

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	55.98	74.75	68.26	101.23	42	43.39=***n***(43.39+0.0)	23.89=***n***(23.89+0.0)	2.37=***n***(2.37+0.0)	0.623	0.343	0.2697
Y	1.0	1.0	0.0	91.93	−17.77	89.58	91.32	101	68.1=***n***(68.1+0.0)	80.54=***n***(80.54+0.0)	12.23=***n***(12.23+0.0)	0.4233	0.5006	0.9091
L (G)	0.0	1.0	0.0	80.16	−92.71	75.96	119.86	141	25.33=***n***(25.33+0.0)	56.96=***n***(56.96+0.0)	9.87=***n***(9.87+0.0)	0.2748	0.6181	0.643
C	0.0	1.0	1.0	84.21	−54.52	−17.9	57.39	198	40.88=***n***(40.88+0.0)	64.48=***n***(64.48+0.0)	94.37=***n***(94.37+0.0)	0.2047	0.3228	0.7278
V (B)	0.0	0.0	1.0	33.3	61.86	−99.37	117.06	302	15.7=***n***(15.7+0.0)	7.68=***n***(7.68+0.0)	85.31=***n***(85.31+0.0)	0.1445	0.0706	0.0866
M	1.0	0.0	1.0	63.03	86.39	−49.38	99.51	330	59.2=***n***(59.2+0.0)	31.62=***n***(31.62+0.0)	87.07=***n***(87.07+0.0)	0.3328	0.1777	0.3569
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0=***n***(0.0+0.0)	0.0=***n***(0.0+0.0)	0.0=***n***(0.0+0.0)	0.0	0.0	0.0
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=***n***(84.2+0.0)	88.59=***n***(88.59+0.0)	96.46=***n***(96.46+0.0)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0=***n***(0.0+0.0)	0.0=***n***(0.0+0.0)	0.0=***n***(0.0+0.0)	0.0	0.0	0.0
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=***n***(84.2+0.0)	88.59=***n***(88.59+0.0)	96.46=***n***(96.46+0.0)	0.3127	0.329	1.0

System TLS06a
CRT monitor
D65 reflection:
Y_N = 0.63
L^*_N = 5.69
n = 88.59 / (88.59 + 0.63) = 0.993

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	56.44	73.63	64.25	97.72	41	43.68=***n***(43.39+0.6)	24.35=***n***(23.89+0.63)	3.03=***n***(2.37+0.69)	0.6147	0.3426	0.2749
Y	1.0	1.0	0.0	91.95	−17.63	88.08	89.83	101	68.22=***n***(68.1+0.6)	80.6=***n***(80.54+0.63)	12.83=***n***(12.23+0.69)	0.422	0.4986	0.9098
L (G)	0.0	1.0	0.0	80.28	−91.5	74.36	117.91	141	25.74=***n***(25.33+0.6)	57.19=***n***(56.96+0.63)	10.48=***n***(9.87+0.69)	0.2756	0.6122	0.6455
C	0.0	1.0	1.0	84.3	−53.96	−17.76	56.82	198	41.18=***n***(40.88+0.6)	64.65=***n***(64.48+0.63)	94.39=***n***(94.37+0.69)	0.2057	0.3229	0.7297
V (B)	0.0	0.0	1.0	34.49	59.5	−97.37	114.12	301	16.18=***n***(15.7+0.6)	8.25=***n***(7.68+0.63)	85.39=***n***(85.31+0.69)	0.1474	0.0751	0.0931
M	1.0	0.0	1.0	63.36	85.38	−48.85	98.37	330	59.38=***n***(59.2+0.6)	32.02=***n***(31.62+0.63)	87.13=***n***(87.07+0.69)	0.3326	0.1794	0.3615
N	0.0	0.0	0.0	5.65	0.0	0.0	0.0	0	0.59=***n***(0.0+0.6)	0.63=***n***(0.0+0.63)	0.68=***n***(0.0+0.69)	0.3127	0.329	0.0071
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=***n***(84.2+0.6)	88.59=***n***(88.59+0.63)	96.46=***n***(96.46+0.69)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	5.65	0.0	0.0	0.0	0	0.59=***n***(0.0+0.6)	0.63=***n***(0.0+0.63)	0.68=***n***(0.0+0.69)	0.3127	0.329	0.0071
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=***n***(84.2+0.6)	88.59=***n***(88.59+0.63)	96.46=***n***(96.46+0.69)	0.3127	0.329	1.0

System TLS11a
CRT monitor
D65 reflection:
Y_N = 1.26
L^*_N = 11.0
n = 88.59 / (88.59 + 1.26) = 0.986

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	56.88	72.55	60.93	94.75	40	43.96=***n***(43.39+1.2)	24.8=***n***(23.89+1.26)	3.69=***n***(2.37+1.37)	0.6068	0.3423	0.2799
Y	1.0	1.0	0.0	91.98	−17.49	86.65	88.4	101	68.33=***n***(68.1+1.2)	80.65=***n***(80.54+1.26)	13.41=***n***(12.23+1.37)	0.4208	0.4967	0.9104
L (G)	0.0	1.0	0.0	80.41	−90.32	72.85	116.05	141	26.15=***n***(25.33+1.2)	57.41=***n***(56.96+1.26)	11.08=***n***(9.87+1.37)	0.2763	0.6066	0.648
C	0.0	1.0	1.0	84.39	−53.41	−17.62	56.25	198	41.49=***n***(40.88+1.2)	64.82=***n***(64.48+1.26)	94.4=***n***(94.37+1.37)	0.2067	0.3229	0.7316
V (B)	0.0	0.0	1.0	35.62	57.35	−95.49	111.4	301	16.66=***n***(15.7+1.2)	8.81=***n***(7.68+1.26)	85.46=***n***(85.31+1.37)	0.1502	0.0794	0.0994
M	1.0	0.0	1.0	63.69	84.39	−48.33	97.25	330	59.55=***n***(59.2+1.2)	32.42=***n***(31.62+1.26)	87.2=***n***(87.07+1.37)	0.3324	0.1809	0.3659
N	0.0	0.0	0.0	10.87	0.0	0.0	0.0	358	1.18=***n***(0.0+1.2)	1.24=***n***(0.0+1.26)	1.35=***n***(0.0+1.37)	0.3127	0.329	0.014
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=***n***(84.2+1.2)	88.59=***n***(88.59+1.26)	96.46=***n***(96.46+1.37)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	10.87	0.0	0.0	0.0	358	1.18=***n***(0.0+1.2)	1.24=***n***(0.0+1.26)	1.35=***n***(0.0+1.37)	0.3127	0.329	0.014
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=***n***(84.2+1.2)	88.59=***n***(88.59+1.26)	96.46=***n***(96.46+1.37)	0.3127	0.329	1.0

System TLS18a
CRT monitor
D65 reflection:
Y_N = 2.52
L^*_N = 18.01
n = 88.59 / (88.59 + 2.52) = 0.972

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	57.73	70.5	55.64	89.81	38	44.52=***n***(43.39+2.4)	25.68=***n***(23.89+2.52)	4.97=***n***(2.37+2.74)	0.5922	0.3416	0.2899
Y	1.0	1.0	0.0	92.03	−17.22	83.97	85.72	102	68.55=***n***(68.1+2.4)	80.76=***n***(80.54+2.52)	14.56=***n***(12.23+2.74)	0.4183	0.4928	0.9117
L (G)	0.0	1.0	0.0	80.65	−88.07	70.06	112.54	142	26.96=***n***(25.33+2.4)	57.84=***n***(56.96+2.52)	12.26=***n***(9.87+2.74)	0.2777	0.5959	0.6529
C	0.0	1.0	1.0	84.56	−52.35	−17.34	55.16	198	42.08=***n***(40.88+2.4)	65.14=***n***(64.48+2.52)	94.43=***n***(94.37+2.74)	0.2087	0.3231	0.7353
V (B)	0.0	0.0	1.0	37.69	53.56	−92.03	106.49	300	17.6=***n***(15.7+2.4)	9.91=***n***(7.68+2.52)	85.62=***n***(85.31+2.74)	0.1555	0.0876	0.1119
M	1.0	0.0	1.0	64.32	82.48	−47.33	95.1	330	59.89=***n***(59.2+2.4)	33.19=***n***(31.62+2.52)	87.33=***n***(87.07+2.74)	0.332	0.184	0.3747
N	0.0	0.0	0.0	17.69	0.0	0.0	0.0	0	2.33=***n***(0.0+2.4)	2.45=***n***(0.0+2.52)	2.67=***n***(0.0+2.74)	0.3127	0.329	0.0277
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	10	84.2=***n***(84.2+2.4)	88.59=***n***(88.59+2.52)	96.46=***n***(96.46+2.74)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	17.69	0.0	0.0	0.0	0	2.33=***n***(0.0+2.4)	2.45=***n***(0.0+2.52)	2.67=***n***(0.0+2.74)	0.3127	0.329	0.0277
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	10	84.2=***n***(84.2+2.4)	88.59=***n***(88.59+2.52)	96.46=***n***(96.46+2.74)	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
CRT monitor
D65 reflection:
Y_N = 0.0
L^*_N = 0.0
k = 88.59 / (88.59 − 0.05) = 1.001

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	55.98	74.75	68.26	101.23	42	43.39=*k*(43.41−0.05)	23.89=*k*(23.93−0.05)	2.37=*k*(2.42−0.06)	0.623	0.343	0.2697
Y	1.0	1.0	0.0	91.93	−17.77	89.58	91.32	101	68.1=*k*(68.11−0.05)	80.54=*k*(80.55−0.05)	12.23=*k*(12.28−0.06)	0.4233	0.5006	0.9091
L (G)	0.0	1.0	0.0	80.16	−92.71	75.96	119.86	141	25.33=*k*(25.36−0.05)	56.96=*k*(56.98−0.05)	9.87=*k*(9.92−0.06)	0.2748	0.6181	0.643
C	0.0	1.0	1.0	84.21	−54.52	−17.9	57.39	198	40.88=*k*(40.9−0.05)	64.48=*k*(64.49−0.05)	94.37=*k*(94.37−0.06)	0.2047	0.3228	0.7278
V (B)	0.0	0.0	1.0	33.3	61.86	−99.37	117.06	302	15.7=*k*(15.74−0.05)	7.68=*k*(7.72−0.05)	85.31=*k*(85.31−0.06)	0.1445	0.0706	0.0866
M	1.0	0.0	1.0	63.03	86.39	−49.38	99.51	330	59.2=*k*(59.22−0.05)	31.62=*k*(31.65−0.05)	87.07=*k*(87.07−0.06)	0.3328	0.1777	0.3569
N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=*k*(0.05−0.05)	0.0=*k*(0.05−0.05)	0.0=*k*(0.06−0.06)	0.0	0.0	0.0
W	1.0	1.0	1.0	95.41	0.0	0.0	0.01	7	84.2=*k*(84.2−0.05)	88.59=*k*(88.59−0.05)	96.46=*k*(96.46−0.06)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=*k*(0.05−0.05)	0.0=*k*(0.05−0.05)	0.0=*k*(0.06−0.06)	0.0	0.0	0.0
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.01	7	84.2=*k*(84.2−0.05)	88.59=*k*(88.59−0.05)	96.46=*k*(96.46−0.06)	0.3127	0.329	1.0

Calculated colorimetric data: Television Luminous Systems TLSxxa for CIE lightness L^*_N=27, 33, 52, 70 of black for illuminant D65

System TLS27a
CRT monitor
D65 reflection:
Y_N = 5.04
L^*_N = 26.85
n = 88.59 / (88.59 + 5.04) = 0.946

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	59.32	66.74	48.11	82.28	36	45.59=*n*(43.39+4.79)	27.37=*n*(23.89+5.04)	7.43=*n*(2.37+5.49)	0.567	0.3405	0.309
Y	1.0	1.0	0.0	92.12	−16.71	79.22	80.96	102	68.97=*n*(68.1+4.79)	80.97=*n*(80.54+5.04)	16.77=*n*(12.23+5.49)	0.4137	0.4857	0.914
L (G)	0.0	1.0	0.0	81.11	−83.9	65.23	106.28	142	28.5=*n*(25.33+4.79)	58.67=*n*(56.96+5.04)	14.53=*n*(9.87+5.49)	0.2802	0.5769	0.6622
C	0.0	1.0	1.0	84.88	−50.35	−16.82	53.1	198	43.21=*n*(40.88+4.79)	65.77=*n*(64.48+5.04)	94.48=*n*(94.37+5.49)	0.2124	0.3233	0.7425
V (B)	0.0	0.0	1.0	41.27	47.5	−86.07	98.31	299	19.39=*n*(15.7+4.79)	12.03=*n*(7.68+5.04)	85.91=*n*(85.31+5.49)	0.1652	0.1025	0.1358
M	1.0	0.0	1.0	65.5	78.93	−45.46	91.09	330	60.55=*n*(59.2+4.79)	34.69=*n*(31.62+5.04)	87.57=*n*(87.07+5.49)	0.3312	0.1897	0.3915
N	0.0	0.0	0.0	26.07	0.0	0.0	0.0	0	4.53=*n*(0.0+4.79)	4.77=*n*(0.0+5.04)	5.19=*n*(0.0+5.49)	0.3127	0.329	0.0538
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=*n*(84.2+4.79)	88.59=*n*(88.59+5.04)	96.46=*n*(96.46+5.49)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	26.07	0.0	0.0	0.0	0	4.53=*n*(0.0+4.79)	4.77=*n*(0.0+5.04)	5.19=*n*(0.0+5.49)	0.3127	0.329	0.0538
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=*n*(84.2+4.79)	88.59=*n*(88.59+5.04)	96.46=*n*(96.46+5.49)	0.3127	0.329	1.0

System TLS38a
CRT monitor
D65 reflection:
Y_N = 10.08
L^*_N = 37.99
n = 88.59 / (88.59 + 10.08) = 0.898

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	62.08	60.39	38.79	71.77	33	47.56=*n*(43.39+9.58)	30.5=*n*(23.89+10.08)	11.98=*n*(2.37+10.98)	0.5282	0.3387	0.3443
Y	1.0	1.0	0.0	92.29	−15.77	71.46	73.18	102	69.75=*n*(68.1+9.58)	81.36=*n*(80.54+10.08)	20.84=*n*(12.23+10.98)	0.4056	0.4732	0.9184
L (G)	0.0	1.0	0.0	81.94	−76.72	57.67	95.99	143	31.34=*n*(25.33+9.58)	60.19=*n*(56.96+10.08)	18.71=*n*(9.87+10.98)	0.2843	0.546	0.6795
C	0.0	1.0	1.0	85.47	−46.79	−15.87	49.42	199	45.3=*n*(40.88+9.58)	66.94=*n*(64.48+10.08)	94.58=*n*(94.37+10.98)	0.219	0.3237	0.7556
V (B)	0.0	0.0	1.0	46.9	39.1	−76.74	86.14	297	22.7=*n*(15.7+9.58)	15.94=*n*(7.68+10.08)	86.45=*n*(85.31+10.98)	0.1815	0.1274	0.1799
M	1.0	0.0	1.0	67.6	72.71	−42.16	84.05	330	61.76=*n*(59.2+9.58)	37.44=*n*(31.62+10.08)	88.03=*n*(87.07+10.98)	0.3299	0.2	0.4226
N	0.0	0.0	0.0	36.08	0.0	0.0	0.0	0	8.6=*n*(0.0+9.58)	9.05=*n*(0.0+10.08)	9.85=*n*(0.0+10.98)	0.3127	0.329	0.1022
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=*n*(84.2+9.58)	88.59=*n*(88.59+10.08)	96.46=*n*(96.46+10.98)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	36.08	0.0	0.0	0.0	0	8.6=*n*(0.0+9.58)	9.05=*n*(0.0+10.08)	9.85=*n*(0.0+10.98)	0.3127	0.329	0.1022
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=*n*(84.2+9.58)	88.59=*n*(88.59+10.08)	96.46=*n*(96.46+10.98)	0.3127	0.329	1.0

System TLS52a
CRT monitor
D65 reflection:
Y_N = 20.16
L^*_N = 52.02
n = 88.59 / (88.59 + 20.16) = 0.815

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	66.43	50.88	28.79	58.46	30	50.96=*n*(43.39+19.16)	35.89=*n*(23.89+20.16)	19.81=*n*(2.37+21.95)	0.4778	0.3365	0.4051
Y	1.0	1.0	0.0	92.59	−14.18	60.27	61.92	103	71.09=*n*(68.1+19.16)	82.03=*n*(80.54+20.16)	27.85=*n*(12.23+21.95)	0.3928	0.4533	0.926
L (G)	0.0	1.0	0.0	83.35	−65.65	47.34	80.95	144	36.24=*n*(25.33+19.16)	62.83=*n*(56.96+20.16)	25.92=*n*(9.87+21.95)	0.29	0.5027	0.7092
C	0.0	1.0	1.0	86.48	−41.02	−14.25	43.44	199	48.91=*n*(40.88+19.16)	68.95=*n*(64.48+20.16)	94.76=*n*(94.37+21.95)	0.23	0.3243	0.7783
V (B)	0.0	0.0	1.0	54.74	29.37	−63.89	70.32	295	28.4=*n*(15.7+19.16)	22.68=*n*(7.68+20.16)	87.37=*n*(85.31+21.95)	0.2051	0.1638	0.256
M	1.0	0.0	1.0	70.99	62.9	−36.87	72.92	330	63.84=*n*(59.2+19.16)	42.18=*n*(31.62+20.16)	88.81=*n*(87.07+21.95)	0.3277	0.2165	0.4761
N	0.0	0.0	0.0	47.52	0.0	0.0	0.0	0	15.61=*n*(0.0+19.16)	16.42=*n*(0.0+20.16)	17.88=*n*(0.0+21.95)	0.3127	0.329	0.1854
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+19.16)	88.59=*n*(88.59+20.16)	96.46=*n*(96.46+21.95)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	47.52	0.0	0.0	0.0	0	15.61=*n*(0.0+19.16)	16.42=*n*(0.0+20.16)	17.88=*n*(0.0+21.95)	0.3127	0.329	0.1854
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+19.16)	88.59=*n*(88.59+20.16)	96.46=*n*(96.46+21.95)	0.3127	0.329	1.0

System TLS70a
CRT monitor
D65 reflection:
Y_N = 40.32
L^*_N = 69.7
n = 88.59 / (88.59 + 40.32) = 0.687

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	72.31	38.9	19.57	43.54	27	56.15=*n*(43.39+38.32)	44.13=*n*(23.89+40.32)	31.8=*n*(2.37+43.9)	0.4251	0.3341	0.4981
Y	1.0	1.0	0.0	93.04	−11.8	46.48	47.96	104	73.14=*n*(68.1+38.32)	83.06=*n*(80.54+40.32)	38.58=*n*(12.23+43.9)	0.3755	0.4264	0.9376
L (G)	0.0	1.0	0.0	85.43	−51.16	35.38	62.21	145	43.74=*n*(25.33+38.32)	66.86=*n*(56.96+40.32)	36.95=*n*(9.87+43.9)	0.2965	0.4531	0.7547
C	0.0	1.0	1.0	87.98	−32.95	−11.85	35.03	200	54.43=*n*(40.88+38.32)	72.02=*n*(64.48+40.32)	95.02=*n*(94.37+43.9)	0.2458	0.3252	0.8129
V (B)	0.0	0.0	1.0	64.15	20.04	−48.66	52.63	292	37.12=*n*(15.7+38.32)	32.98=*n*(7.68+40.32)	88.79=*n*(85.31+43.9)	0.2336	0.2076	0.3723
M	1.0	0.0	1.0	75.72	49.69	−29.55	57.81	329	67.02=*n*(59.2+38.32)	49.44=*n*(31.62+40.32)	90.0=*n*(87.07+43.9)	0.3246	0.2395	0.5581
N	0.0	0.0	0.0	59.62	0.0	0.0	0.0	10	26.33=*n*(0.0+38.32)	27.71=*n*(0.0+40.32)	30.17=*n*(0.0+43.9)	0.3127	0.329	0.3128
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=*n*(84.2+38.32)	88.59=*n*(88.59+40.32)	96.46=*n*(96.46+43.9)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	59.62	0.0	0.0	0.0	10	26.33=*n*(0.0+38.32)	27.71=*n*(0.0+40.32)	30.17=*n*(0.0+43.9)	0.3127	0.329	0.3128
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	7	84.2=*n*(84.2+38.32)	88.59=*n*(88.59+40.32)	96.46=*n*(96.46+43.9)	0.3127	0.329	1.0

Colorimetric "Standard data": Television Luminous System TLS03 for CIE lightness L^*_N=03 of black for illuminant D65

System TLS03
LCD projector
D65 reflection:
Y_N = 0.28
L^*_N = 2.5

Color	r=olv*1	g=olv*2	b=olv*3	L*	a*	b*	C*ab	hab	X=XYZ1	Y=XYZ2	Z=XYZ3	x	y	Y/88.59
O (R)	1.0	0.0	0.0	37.1	58.78	56.51	81.54	44	18.1	9.59	0.52	0.6415	0.34	0.1083
Y	1.0	1.0	0.0	83.13	−16.8	84.65	86.31	101	52.58	62.4	8.73	0.425	0.5044	0.7044
L (G)	0.0	1.0	0.0	72.83	−51.36	71.66	88.17	126	27.7	44.91	7.37	0.3464	0.5615	0.5069
C	0.0	1.0	1.0	77.63	−27.89	−10.73	29.9	201	40.31	52.59	69.46	0.2483	0.3239	0.5936
V (B)	0.0	0.0	1.0	30.28	50.46	−86.21	99.9	300	11.87	6.35	62.28	0.1475	0.0789	0.0717
M	1.0	0.0	1.0	48.39	71.08	−60.47	93.32	320	32.22	17.11	68.65	0.2731	0.145	0.1931
N	0.0	0.0	0.0	2.5	−0.41	0.23	0.48	151	0.25	0.28	0.29	0.3103	0.3398	0.0031
W	1.0	1.0	1.0	95.41	−0.54	−0.04	0.55	185	83.91	88.59	96.53	0.3119	0.3293	1.0
N0	0.0	0.0	0.0	2.5	−0.41	0.23	0.48	151	0.25	0.28	0.29	0.3103	0.3398	0.0031
W1	1.0	1.0	1.0	95.41	−0.54	−0.04	0.55	185	83.91	88.59	96.53	0.3119	0.3293	1.0

Colorimetric "Adapted data (a)": Television Luminous System TLS03a for CIE lightness L^*_N=03 of black for illuminant D65

System TLS03a
LCD projector
D65 reflection:
Y_N = 0.28
L^*_N = 2.5

Color	r=olv*1	g=olv*2	b=olv*3	L*a	a*a	b*a	C*ab,a	hab,a	Xa=XYZ1a	Ya=XYZ2a	Za=XYZ3a	xa	ya	Ya/88.59
O (R)	1.0	0.0	0.0	37.1	59.25	56.38	81.79	44	18.19	9.59	0.53	0.6424	0.3388	0.1083
Y	1.0	1.0	0.0	83.13	−16.27	84.66	86.21	101	52.78	62.4	8.73	0.426	0.5036	0.7044
L (G)	0.0	1.0	0.0	72.83	−50.84	71.64	87.85	125	27.83	44.91	7.37	0.3474	0.5605	0.5069
C	0.0	1.0	1.0	77.63	−27.37	−10.73	29.41	201	40.48	52.59	69.47	0.2491	0.3235	0.5936
V (B)	0.0	0.0	1.0	30.28	50.92	−86.36	100.27	301	11.94	6.35	62.45	0.1479	0.0787	0.0717
M	1.0	0.0	1.0	48.39	71.56	−60.56	93.75	320	32.35	17.11	68.77	0.2737	0.1447	0.1931
N	0.0	0.0	0.0	2.5	0.0	0.0	0.01	0	0.26	0.28	0.3	0.3127	0.329	0.0031
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	2.5	0.0	0.0	0.01	0	0.26	0.28	0.3	0.3127	0.329	0.0031
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 projector
D65 reflection:
Y_N = 0.0
L^*_N = 0.0
***k* = 88.59 / (88.59 − 0.28)**
= 1.003

Color	r=olv*1	g=olv*2	b=olv*3	L*a0	a*a0	b*a0	C*ab,a0	hab,a0	Xa0=XYZ1a0	Ya0=XYZ2a0	Za0=XYZ3a0	xa0	ya0	Ya0/88.59
O (R)	1.0	0.0	0.0	36.64	60.14	59.89	84.88	45	17.98=***k***(18.19−0.26)	9.35=***k***(9.59−0.28)	0.23=***k***(0.53−0.3)	0.6525	0.3391	0.1055
Y	1.0	1.0	0.0	83.08	−16.34	85.5	87.05	101	52.69=***k***(52.78−0.26)	62.32=***k***(62.4−0.28)	8.46=***k***(8.73−0.3)	0.4267	0.5048	0.7035
L (G)	0.0	1.0	0.0	72.74	−51.16	72.53	88.76	125	27.66=***k***(27.83−0.26)	44.77=***k***(44.91−0.28)	7.09=***k***(7.37−0.3)	0.3478	0.563	0.5054
C	0.0	1.0	1.0	77.56	−27.51	−10.78	29.55	201	40.34=***k***(40.48−0.26)	52.47=***k***(52.59−0.28)	69.38=***k***(69.47−0.3)	0.2487	0.3235	0.5923
V (B)	0.0	0.0	1.0	29.65	52.07	−87.36	101.71	301	11.71=***k***(11.94−0.26)	6.09=***k***(6.35−0.28)	62.34=***k***(62.45−0.3)	0.1461	0.076	0.0688
M	1.0	0.0	1.0	48.11	72.19	−60.98	94.51	320	32.19=***k***(32.35−0.26)	16.88=***k***(17.11−0.28)	68.68=***k***(68.77−0.3)	0.2734	0.1434	0.1906
N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=***k***(0.26−0.26)	0.0=***k***(0.28−0.28)	0.0=***k***(0.3−0.3)	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***(84.2−0.26)	88.59=***k***(88.59−0.28)	96.46=***k***(96.46−0.3)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=***k***(0.26−0.26)	0.0=***k***(0.28−0.28)	0.0=***k***(0.3−0.3)	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***(84.2−0.26)	88.59=***k***(88.59−0.28)	96.46=***k***(96.46−0.3)	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 projector
D65 reflection:
Y_N = 0.0
L^*_N = 0.0
k = 88.59 / (88.59 − 0.28) = 1.003

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	36.64	60.14	59.89	84.88	45	17.98=k(18.19−0.26)	9.35=k(9.59−0.28)	0.23=k(0.53−0.3)	0.6525	0.3391	0.1055
Y	1.0	1.0	0.0	83.08	−16.34	85.5	87.05	101	52.69=k(52.78−0.26)	62.32=k(62.4−0.28)	8.46=k(8.73−0.3)	0.4267	0.5048	0.7035
L (G)	0.0	1.0	0.0	72.74	−51.16	72.53	88.76	125	27.66=k(27.83−0.26)	44.77=k(44.91−0.28)	7.09=k(7.37−0.3)	0.3478	0.563	0.5054
C	0.0	1.0	1.0	77.56	−27.51	−10.78	29.55	201	40.34=k(40.48−0.26)	52.47=k(52.59−0.28)	69.38=k(69.47−0.3)	0.2487	0.3235	0.5923
V (B)	0.0	0.0	1.0	29.65	52.07	−87.36	101.71	301	11.71=k(11.94−0.26)	6.09=k(6.35−0.28)	62.34=k(62.45−0.3)	0.1461	0.076	0.0688
M	1.0	0.0	1.0	48.11	72.19	−60.98	94.51	320	32.19=k(32.35−0.26)	16.88=k(17.11−0.28)	68.68=k(68.77−0.3)	0.2734	0.1434	0.1906
N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=k(0.26−0.26)	0.0=k(0.28−0.28)	0.0=k(0.3−0.3)	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(84.2−0.26)	88.59=k(88.59−0.28)	96.46=k(96.46−0.3)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=k(0.26−0.26)	0.0=k(0.28−0.28)	0.0=k(0.3−0.3)	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(84.2−0.26)	88.59=k(88.59−0.28)	96.46=k(96.46−0.3)	0.3127	0.329	1.0

Calculated colorimetric data: Television Luminous Systems TLSxxa for CIE lightness L^*_N=00, 06, 11, 18 of black for illuminant D65

System TLS00a
LCD projector
D65 reflection:
Y_N = 0.0
L^*_N = 0.0
n = 88.59 / (88.59 + 0.0) = 1.0

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	36.64	60.14	59.89	84.88	45	17.98=n(17.98+0.0)	9.35=n(9.35+0.0)	0.23=n(0.23+0.0)	0.6525	0.3391	0.1055
Y	1.0	1.0	0.0	83.08	−16.34	85.5	87.05	101	52.69=n(52.69+0.0)	62.32=n(62.32+0.0)	8.46=n(8.46+0.0)	0.4267	0.5048	0.7035
L (G)	0.0	1.0	0.0	72.74	−51.16	72.53	88.76	125	27.66=n(27.66+0.0)	44.77=n(44.77+0.0)	7.09=n(7.09+0.0)	0.3478	0.563	0.5054
C	0.0	1.0	1.0	77.56	−27.51	−10.78	29.55	201	40.34=n(40.34+0.0)	52.47=n(52.47+0.0)	69.38=n(69.38+0.0)	0.2487	0.3235	0.5923
V (B)	0.0	0.0	1.0	29.65	52.07	−87.36	101.71	301	11.71=n(11.71+0.0)	6.09=n(6.09+0.0)	62.34=n(62.34+0.0)	0.1461	0.076	0.0688
M	1.0	0.0	1.0	48.11	72.19	−60.98	94.51	320	32.19=n(32.19+0.0)	16.88=n(16.88+0.0)	68.68=n(68.68+0.0)	0.2734	0.1434	0.1906
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0=n(0.0+0.0)	0.0=n(0.0+0.0)	0.0=n(0.0+0.0)	0.0	0.0	0.0
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=n(84.2+0.0)	88.59=n(88.59+0.0)	96.46=n(96.46+0.0)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0=n(0.0+0.0)	0.0=n(0.0+0.0)	0.0=n(0.0+0.0)	0.0	0.0	0.0
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=n(84.2+0.0)	88.59=n(88.59+0.0)	96.46=n(96.46+0.0)	0.3127	0.329	1.0

System TLS06a
LCD projector
D65 reflection:
Y_N = 0.63
L^*_N = 5.69
n = 88.59 / (88.59 + 0.63) = 0.993

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	37.67	58.17	51.95	77.99	42	18.45=n(17.98+0.6)	9.91=n(9.35+0.63)	0.91=n(0.23+0.69)	0.6305	0.3385	0.1118
Y	1.0	1.0	0.0	83.18	−16.18	83.63	85.19	101	52.91=n(52.69+0.6)	62.51=n(62.32+0.63)	9.08=n(8.46+0.69)	0.425	0.5021	0.7056
L (G)	0.0	1.0	0.0	72.94	−50.45	70.56	86.75	126	28.06=n(27.66+0.6)	45.08=n(44.77+0.63)	7.72=n(7.09+0.69)	0.347	0.5575	0.5088
C	0.0	1.0	1.0	77.72	−27.2	−10.68	29.23	201	40.65=n(40.34+0.6)	52.73=n(52.47+0.63)	69.57=n(69.38+0.69)	0.2495	0.3236	0.5952
V (B)	0.0	0.0	1.0	31.06	49.56	−85.15	98.53	300	12.23=n(11.71+0.6)	6.68=n(6.09+0.63)	62.58=n(62.34+0.69)	0.15	0.0819	0.0754
M	1.0	0.0	1.0	48.75	70.78	−60.05	92.82	320	32.56=n(32.19+0.6)	17.39=n(16.88+0.63)	68.88=n(68.68+0.69)	0.274	0.1463	0.1963
N	0.0	0.0	0.0	5.65	0.0	0.0	0.0	0	0.59=n(0.0+0.6)	0.63=n(0.0+0.63)	0.68=n(0.0+0.69)	0.3127	0.329	0.0071
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=n(84.2+0.6)	88.59=n(88.59+0.63)	96.46=n(96.46+0.69)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	5.65	0.0	0.0	0.0	0	0.59=n(0.0+0.6)	0.63=n(0.0+0.63)	0.68=n(0.0+0.69)	0.3127	0.329	0.0071
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=n(84.2+0.6)	88.59=n(88.59+0.63)	96.46=n(96.46+0.69)	0.3127	0.329	1.0

System TLS11a
LCD projector
D65 reflection:
Y_N = 1.26
L^*_N = 11.0
n = 88.59 / (88.59 + 1.26) = 0.986

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	38.65	56.34	45.45	72.39	39	18.91=n(17.98+1.2)	10.46=n(9.35+1.26)	1.58=n(0.23+1.37)	0.6111	0.3379	0.118
Y	1.0	1.0	0.0	83.28	−16.03	81.88	83.43	101	53.13=n(52.69+1.2)	62.69=n(62.32+1.26)	9.69=n(8.46+1.37)	0.4233	0.4995	0.7076
L (G)	0.0	1.0	0.0	73.14	−49.76	68.74	84.87	126	28.45=n(27.66+1.2)	45.38=n(44.77+1.26)	8.35=n(7.09+1.37)	0.3462	0.5523	0.5123
C	0.0	1.0	1.0	77.86	−26.9	−10.57	28.92	201	40.96=n(40.34+1.2)	52.98=n(52.47+1.26)	69.76=n(69.38+1.37)	0.2502	0.3236	0.598
V (B)	0.0	0.0	1.0	32.37	47.33	−83.09	95.64	300	12.73=n(11.71+1.2)	7.25=n(6.09+1.26)	62.82=n(62.34+1.37)	0.1537	0.0876	0.0818
M	1.0	0.0	1.0	49.36	69.42	−59.15	91.21	320	32.92=n(32.19+1.2)	17.89=n(16.88+1.26)	69.07=n(68.68+1.37)	0.2746	0.1492	0.2019
N	0.0	0.0	0.0	10.87	0.0	0.0	0.0	358	1.18=n(0.0+1.2)	1.24=n(0.0+1.26)	1.35=n(0.0+1.37)	0.3127	0.329	0.014
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=n(84.2+1.2)	88.59=n(88.59+1.26)	96.46=n(96.46+1.37)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	10.87	0.0	0.0	0.0	358	1.18=n(0.0+1.2)	1.24=n(0.0+1.26)	1.35=n(0.0+1.37)	0.3127	0.329	0.014
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=n(84.2+1.2)	88.59=n(88.59+1.26)	96.46=n(96.46+1.37)	0.3127	0.329	1.0

System TLS18a
LCD projector
D65 reflection:
Y_N = 2.52
L^*_N = 18.01
n = 88.59 / (88.59 + 2.52) = 0.972

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	40.47	53.07	37.7	65.09	35	19.82=n(17.98+2.4)	11.54=n(9.35+2.52)	2.89=n(0.23+2.74)	0.5786	0.3369	0.1302
Y	1.0	1.0	0.0	83.47	−15.74	78.66	80.22	101	53.56=n(52.69+2.4)	63.05=n(62.32+2.52)	10.89=n(8.46+2.74)	0.4201	0.4945	0.7117
L (G)	0.0	1.0	0.0	73.53	−48.45	65.46	81.45	127	29.22=n(27.66+2.4)	45.98=n(44.77+2.52)	9.56=n(7.09+2.74)	0.3447	0.5425	0.519
C	0.0	1.0	1.0	78.15	−26.32	−10.38	28.31	202	41.56=n(40.34+2.4)	53.47=n(52.47+2.52)	70.13=n(69.38+2.74)	0.2516	0.3238	0.6036
V (B)	0.0	0.0	1.0	34.75	43.52	−79.4	90.55	299	13.72=n(11.71+2.4)	8.38=n(6.09+2.52)	63.29=n(62.34+2.74)	0.1607	0.0981	0.0945
M	1.0	0.0	1.0	50.53	66.89	−57.44	88.17	319	33.63=n(32.19+2.4)	18.87=n(16.88+2.52)	69.45=n(68.68+2.74)	0.2758	0.1547	0.213
N	0.0	0.0	0.0	17.69	0.0	0.0	0.0	0	2.33=n(0.0+2.4)	2.45=n(0.0+2.52)	2.67=n(0.0+2.74)	0.3127	0.329	0.0277
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=n(84.2+2.4)	88.59=n(88.59+2.52)	96.46=n(96.46+2.74)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	17.69	0.0	0.0	0.0	0	2.33=n(0.0+2.4)	2.45=n(0.0+2.52)	2.67=n(0.0+2.74)	0.3127	0.329	0.0277
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=n(84.2+2.4)	88.59=n(88.59+2.52)	96.46=n(96.46+2.74)	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 projector

D65 reflection:
Y_N = 0.0
L^*_N = 0.0
k = 88.59 / (88.59 − 0.28) = 1.003

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	36.64	60.14	59.89	84.88	45	17.98=*k*(18.19−0.26)	9.35=*k*(9.59−0.28)	0.23=*k*(0.53−0.3)	0.6525	0.3391	0.1055
Y	1.0	1.0	0.0	83.08	−16.34	85.5	87.05	101	52.69=*k*(52.78−0.26)	62.32=*k*(62.4−0.28)	8.46=*k*(8.73−0.3)	0.4267	0.5048	0.7035
L (G)	0.0	1.0	0.0	72.74	−51.16	72.53	88.76	125	27.66=*k*(27.83−0.26)	44.77=*k*(44.91−0.28)	7.09=*k*(7.37−0.3)	0.3478	0.563	0.5054
C	0.0	1.0	1.0	77.56	−27.51	−10.78	29.55	201	40.34=*k*(40.48−0.26)	52.47=*k*(52.59−0.28)	69.38=*k*(69.47−0.3)	0.2487	0.3235	0.5923
V (B)	0.0	0.0	1.0	29.65	52.07	−87.36	101.71	301	11.71=*k*(11.94−0.26)	6.09=*k*(6.35−0.28)	62.34=*k*(62.45−0.3)	0.1461	0.076	0.0688
M	1.0	0.0	1.0	48.11	72.19	−60.98	94.51	320	32.19=*k*(32.35−0.26)	16.88=*k*(17.11−0.28)	68.68=*k*(68.77−0.3)	0.2734	0.1434	0.1906
N	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=*k*(0.26−0.26)	0.0=*k*(0.28−0.28)	0.0=*k*(0.3−0.3)	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*(84.2−0.26)	88.59=*k*(88.59−0.28)	96.46=*k*(96.46−0.3)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0=*k*(0.26−0.26)	0.0=*k*(0.28−0.28)	0.0=*k*(0.3−0.3)	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*(84.2−0.26)	88.59=*k*(88.59−0.28)	96.46=*k*(96.46−0.3)	0.3127	0.329	1.0

Calculated colorimetric data: Television Luminous Systems TLSxxa for CIE lightness L^*_N=27, 33, 52, 70 of black for illuminant D65

System TLS27a
LCD projector

D65 reflection:
Y_N = 5.04
L^*_N = 26.85
n = 88.59 / (88.59 + 5.04) = 0.946

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	43.67	47.68	29.36	55.99	32	21.55=*n*(17.98+4.79)	13.61=*n*(9.35+5.04)	5.41=*n*(0.23+5.49)	0.5311	0.3355	0.1537
Y	1.0	1.0	0.0	83.83	−15.18	73.15	74.71	102	54.38=*n*(52.69+4.79)	63.74=*n*(62.32+5.04)	13.19=*n*(8.46+5.49)	0.4141	0.4854	0.7194
L (G)	0.0	1.0	0.0	74.27	−46.02	60.01	75.63	127	30.7=*n*(27.66+4.79)	47.13=*n*(44.77+5.04)	11.9=*n*(7.09+5.49)	0.3421	0.5252	0.532
C	0.0	1.0	1.0	78.71	−25.24	−10.01	27.16	202	42.71=*n*(40.34+4.79)	54.42=*n*(52.47+5.04)	70.84=*n*(69.38+5.49)	0.2543	0.324	0.6143
V (B)	0.0	0.0	1.0	38.79	37.71	−73.22	82.37	297	15.62=*n*(11.71+4.79)	10.53=*n*(6.09+5.04)	64.18=*n*(62.34+5.49)	0.1729	0.1166	0.1189
M	1.0	0.0	1.0	52.67	62.38	−54.36	82.75	319	34.99=*n*(32.19+4.79)	20.74=*n*(16.88+5.04)	70.18=*n*(68.68+5.49)	0.2779	0.1647	0.2341
N	0.0	0.0	0.0	26.07	0.0	0.0	0.0	0	4.53=*n*(0.0+4.79)	4.77=*n*(0.0+5.04)	5.19=*n*(0.0+5.49)	0.3127	0.329	0.0538
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+4.79)	88.59=*n*(88.59+5.04)	96.46=*n*(96.46+5.49)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	26.07	0.0	0.0	0.0	0	4.53=*n*(0.0+4.79)	4.77=*n*(0.0+5.04)	5.19=*n*(0.0+5.49)	0.3127	0.329	0.0538
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+4.79)	88.59=*n*(88.59+5.04)	96.46=*n*(96.46+5.49)	0.3127	0.329	1.0

System TLS38a
LCD projector

D65 reflection:
Y_N = 10.08
L^*_N = 37.99
n = 88.59 / (88.59 + 10.08) = 0.898

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	48.81	39.92	21.33	45.26	28	24.75=*n*(17.98+9.58)	17.44=*n*(9.35+10.08)	10.06=*n*(0.23+10.98)	0.4736	0.3338	0.1969
Y	1.0	1.0	0.0	84.49	−14.18	64.62	66.16	102	55.9=*n*(52.69+9.58)	65.0=*n*(62.32+10.08)	17.45=*n*(8.46+10.98)	0.4041	0.4698	0.7338
L (G)	0.0	1.0	0.0	75.6	−41.88	51.91	66.7	129	33.43=*n*(27.66+9.58)	49.25=*n*(44.77+10.08)	16.22=*n*(7.09+10.98)	0.338	0.4979	0.5559
C	0.0	1.0	1.0	79.71	−23.32	−9.34	25.13	202	44.82=*n*(40.34+9.58)	56.16=*n*(52.47+10.08)	72.15=*n*(69.38+10.98)	0.2589	0.3244	0.634
V (B)	0.0	0.0	1.0	44.97	30.16	−63.98	70.74	295	19.12=*n*(11.71+9.58)	14.52=*n*(6.09+10.08)	65.83=*n*(62.34+10.98)	0.1922	0.146	0.1639
M	1.0	0.0	1.0	56.3	55.12	−49.2	73.89	318	37.5=*n*(32.19+9.58)	24.21=*n*(16.88+10.08)	71.52=*n*(68.68+10.98)	0.2815	0.1817	0.2733
N	0.0	0.0	0.0	36.08	0.0	0.0	0.0	0	8.6=*n*(0.0+9.58)	9.05=*n*(0.0+10.08)	9.85=*n*(0.0+10.98)	0.3127	0.329	0.1022
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+9.58)	88.59=*n*(88.59+10.08)	96.46=*n*(96.46+10.98)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	36.08	0.0	0.0	0.0	0	8.6=*n*(0.0+9.58)	9.05=*n*(0.0+10.08)	9.85=*n*(0.0+10.98)	0.3127	0.329	0.1022
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+9.58)	88.59=*n*(88.59+10.08)	96.46=*n*(96.46+10.98)	0.3127	0.329	1.0

System TLS52a
LCD projector

D65 reflection:
Y_N = 20.16
L^*_N = 52.02
n = 88.59 / (88.59 + 20.16) = 0.815

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	56.12	30.53	14.45	33.78	25	30.26=*n*(17.98+19.16)	24.04=*n*(9.35+20.16)	18.07=*n*(0.23+21.95)	0.4181	0.3322	0.2713
Y	1.0	1.0	0.0	85.6	−12.53	53.08	54.54	103	58.53=*n*(52.69+19.16)	67.19=*n*(62.32+20.16)	24.77=*n*(8.46+21.95)	0.3889	0.4465	0.7584
L (G)	0.0	1.0	0.0	77.81	−35.56	41.51	54.66	131	38.14=*n*(27.66+19.16)	52.89=*n*(44.77+20.16)	23.66=*n*(7.09+21.95)	0.3325	0.4612	0.5971
C	0.0	1.0	1.0	81.38	−20.26	−8.24	21.89	202	48.47=*n*(40.34+19.16)	59.17=*n*(52.47+20.16)	74.4=*n*(69.38+21.95)	0.2663	0.325	0.6679
V (B)	0.0	0.0	1.0	53.37	22.0	−51.9	56.38	293	25.15=*n*(11.71+19.16)	21.39=*n*(6.09+20.16)	68.67=*n*(62.34+21.95)	0.2183	0.1856	0.2414
M	1.0	0.0	1.0	61.81	44.97	−41.55	61.23	317	41.83=*n*(32.19+19.16)	30.18=*n*(16.88+20.16)	73.83=*n*(68.68+21.95)	0.2868	0.2069	0.3406
N	0.0	0.0	0.0	47.52	0.0	0.0	0.0	0	15.61=*n*(0.0+19.16)	16.42=*n*(0.0+20.16)	17.88=*n*(0.0+21.95)	0.3127	0.329	0.1854
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	353	84.2=*n*(84.2+19.16)	88.59=*n*(88.59+20.16)	96.46=*n*(96.46+21.95)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	47.52	0.0	0.0	0.0	0	15.61=*n*(0.0+19.16)	16.42=*n*(0.0+20.16)	17.88=*n*(0.0+21.95)	0.3127	0.329	0.1854
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	353	84.2=*n*(84.2+19.16)	88.59=*n*(88.59+20.16)	96.46=*n*(96.46+21.95)	0.3127	0.329	1.0

System TLS70a
LCD projector

D65 reflection:
Y_N = 40.32
L^*_N = 69.7
n = 88.59 / (88.59 + 40.32) = 0.687

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	65.07	21.15	9.16	23.05	23	38.69=*n*(17.98+38.32)	34.13=*n*(9.35+40.32)	30.33=*n*(0.23+43.9)	0.3751	0.3309	0.3853
Y	1.0	1.0	0.0	87.26	−10.17	39.76	41.04	104	62.54=*n*(52.69+38.32)	70.54=*n*(62.32+40.32)	35.98=*n*(8.46+43.9)	0.3699	0.4172	0.7962
L (G)	0.0	1.0	0.0	81.0	−27.42	30.18	40.78	132	45.34=*n*(27.66+38.32)	58.48=*n*(44.77+40.32)	35.04=*n*(7.09+43.9)	0.3265	0.4211	0.6601
C	0.0	1.0	1.0	83.85	−16.08	−6.68	17.43	203	54.06=*n*(40.34+38.32)	63.77=*n*(52.47+40.32)	77.85=*n*(69.38+43.9)	0.2763	0.3259	0.7198
V (B)	0.0	0.0	1.0	63.26	14.65	−38.4	41.11	291	34.38=*n*(11.71+38.32)	31.9=*n*(6.09+40.32)	73.01=*n*(62.34+43.9)	0.2468	0.229	0.36
M	1.0	0.0	1.0	68.98	33.17	−31.95	46.06	316	48.46=*n*(32.19+38.32)	39.31=*n*(16.88+40.32)	77.37=*n*(68.68+43.9)	0.2934	0.2381	0.4437
N	0.0	0.0	0.0	59.62	0.0	0.0	0.0	10	26.33=*n*(0.0+38.32)	27.71=*n*(0.0+40.32)	30.17=*n*(0.0+43.9)	0.3127	0.329	0.3128
W	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+38.32)	88.59=*n*(88.59+40.32)	96.46=*n*(96.46+43.9)	0.3127	0.329	1.0
N0	0.0	0.0	0.0	59.62	0.0	0.0	0.0	10	26.33=*n*(0.0+38.32)	27.71=*n*(0.0+40.32)	30.17=*n*(0.0+43.9)	0.3127	0.329	0.3128
W1	1.0	1.0	1.0	95.41	0.0	0.0	0.0	0	84.2=*n*(84.2+38.32)	88.59=*n*(88.59+40.32)	96.46=*n*(96.46+43.9)	0.3127	0.329	1.0