

Colorimetric data of Television Luminous System TLS00a for CIE lightness $L^*_N=00$ of black

System:

TLS00a

Monitor:

LCD

Reflection:

 $Y_N = 0.0$ $L^*_N = 0.0$

Color	$r=olv*_1$	$g=olv*_2$	$b=olv*_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab,a}=LAB^*_{ab,a}$	$h_{ab,a}$	$X_a=XYZ^*_1a$	$Y_a=XYZ^*_2a$	$Z_a=XYZ^*_3a$	x_a	y_a	$Y_a/88.59$
00 o00y	1.0	0.0	0.0	53.21	78.53	65.65	102.36	40	40.69	21.24	2.1	0.6355	0.3317	0.2484
01 o13y	1.0	0.125	0.0	53.94	76.28	65.83	100.76	41	40.98	21.92	2.23	0.6292	0.3365	0.2564
02 o25y	1.0	0.25	0.0	57.02	67.72	66.71	95.06	45	42.54	24.95	2.82	0.605	0.3548	0.2918
03 o38y	1.0	0.375	0.0	61.52	55.58	68.6	88.29	51	45.0	29.85	3.75	0.5726	0.3797	0.3491
04 o50y	1.0	0.5	0.0	66.94	41.72	70.89	82.26	60	48.37	36.55	5.1	0.5373	0.406	0.4275
05 o63y	1.0	0.625	0.0	73.24	26.73	74.3	78.96	70	52.93	45.53	6.85	0.5026	0.4323	0.5325
06 o75y	1.0	0.75	0.0	79.83	12.13	78.0	78.94	81	58.44	56.38	9.03	0.4719	0.4552	0.6594
07 o88y	1.0	0.875	0.0	86.38	-1.46	82.01	82.02	91	64.7	68.76	11.49	0.4463	0.4744	0.8042
08 y00l	1.0	1.0	0.0	94.1	-15.93	87.27	88.72	100	73.34	85.49	14.68	0.4227	0.4927	1.0
09 y13l	0.875	1.0	0.0	91.95	-27.55	84.51	88.89	108	63.78	80.6	14.28	0.402	0.508	0.9427
10 y25l	0.75	1.0	0.0	90.14	-38.26	82.28	90.74	115	56.03	76.62	13.91	0.3823	0.5228	0.8962
11 y38l	0.625	1.0	0.0	88.45	-49.38	80.26	94.24	122	48.97	73.01	13.54	0.3613	0.5388	0.854
12 y50l	0.5	1.0	0.0	86.94	-60.11	78.52	98.89	127	42.91	69.88	13.19	0.3406	0.5547	0.8174
13 y63l	0.375	1.0	0.0	85.74	-69.36	77.23	103.81	132	38.25	67.47	12.88	0.3225	0.5689	0.7891
14 y75l	0.25	1.0	0.0	84.81	-77.08	76.04	108.28	135	34.72	65.63	12.72	0.3071	0.5804	0.7676
15 y88l	0.125	1.0	0.0	84.19	-82.22	75.33	111.52	138	32.5	64.44	12.58	0.2967	0.5884	0.7537
16 l00c	0.0	1.0	0.0	84.03	-83.48	75.12	112.31	138	31.96	64.13	12.56	0.2941	0.5903	0.7501
17 l13c	0.0	1.0	0.125	84.07	-83.08	72.37	110.19	139	32.11	64.2	13.68	0.2919	0.5837	0.7509
18 l25c	0.0	1.0	0.25	84.18	-80.91	62.13	102.03	142	32.84	64.4	18.41	0.284	0.5569	0.7533
19 l38c	0.0	1.0	0.375	84.44	-77.67	49.03	91.86	148	34.09	64.92	26.04	0.2726	0.5192	0.7593
20 l50c	0.0	1.0	0.5	84.81	-73.5	35.21	81.5	154	35.77	65.63	36.23	0.2599	0.4768	0.7676
21 l63c	0.0	1.0	0.625	85.28	-68.28	21.21	71.51	163	37.96	66.55	49.13	0.2471	0.4331	0.7784
22 l75c	0.0	1.0	0.75	85.82	-62.91	8.24	63.45	173	40.41	67.64	63.75	0.2352	0.3937	0.7911
23 l88c	0.0	1.0	0.875	86.4	-57.53	-3.2	57.63	183	43.0	68.79	79.07	0.2253	0.3604	0.8046
24 c00v	0.0	1.0	1.0	87.06	-52.42	-13.54	54.15	194	45.72	70.12	95.18	0.2167	0.3323	0.8202
25 c13v	0.0	0.875	1.0	78.4	-40.44	-25.8	47.98	213	37.41	53.89	91.26	0.2049	0.2952	0.6304
26 c25v	0.0	0.75	1.0	70.63	-28.48	-36.92	46.64	232	31.2	41.65	87.99	0.194	0.2589	0.4871
27 c38v	0.0	0.675	1.0	62.45	-14.4	-48.87	50.97	254	25.8	30.93	84.99	0.182	0.2183	0.3618
28 c50v	0.0	0.5	1.0	53.98	1.74	-61.22	61.26	272	21.23	21.95	81.89	0.1697	0.1755	0.2568
29 c63v	0.0	0.375	1.0	46.02	19.41	-73.51	76.04	285	17.93	15.29	79.98	0.1584	0.135	0.1788
30 c75v	0.0	0.25	1.0	38.35	38.38	-85.12	93.38	294	15.41	10.29	77.84	0.1488	0.0993	0.1203
31 c88v	0.0	0.125	1.0	32.16	55.61	-94.97	110.06	300	13.86	7.16	76.77	0.1418	0.0732	0.0837
32 v00m	0.0	0.0	1.0	30.5	60.26	-97.5	114.62	302	13.47	6.44	76.35	0.14	0.0669	0.0754
33 v13m	0.125	0.0	1.0	31.07	61.12	-96.93	114.6	302	13.99	6.68	76.88	0.1434	0.0685	0.0781
34 v25m	0.25	0.0	1.0	33.35	62.93	-92.92	112.23	304	15.93	7.7	76.78	0.1586	0.0767	0.0901
35 v38m	0.375	0.0	1.0	36.81	66.05	-87.54	109.67	307	19.26	9.44	77.54	0.1813	0.0888	0.1104
36 v50m	0.5	0.0	1.0	40.7	69.7	-81.13	106.97	311	23.56	11.68	77.94	0.2082	0.1032	0.1366
37 v63m	0.625	0.0	1.0	45.18	74.51	-74.14	105.11	315	29.42	14.67	78.89	0.2392	0.1193	0.1716
38 v75m	0.75	0.0	1.0	49.67	79.02	-66.89	103.54	320	36.09	18.14	79.54	0.2698	0.1356	0.2122
39 v88m	0.875	0.0	1.0	54.01	83.65	-59.99	102.94	324	43.54	21.99	80.32	0.2985	0.1508	0.2572
40 m00o	1.0	0.0	1.0	58.77	89.16	-52.55	103.5	329	52.97	26.78	81.35	0.3288	0.1663	0.3133
41 m13o	1.0	0.0	0.875	57.52	87.43	-42.59	97.26	334	50.26	25.46	66.11	0.3543	0.1795	0.2978
42 m25o	1.0	0.0	0.75	56.35	85.39	-31.06	90.87	340	47.67	24.27	51.49	0.3862	0.1966	0.2838
43 m38o	1.0	0.0	0.675	55.22	83.35	-17.43	85.15	348	45.22	23.14	37.54	0.427	0.2186	0.2707
44 m50o	1.0	0.0	0.5	54.23	81.16	-1.58	81.17	359	43.01	22.19	25.13	0.4761	0.2457	0.2596
45 m63o	1.0	0.0	0.375	53.36	79.52	15.69	81.06	11	41.22	21.38	15.26	0.5294	0.2745	0.25
46 m75o	1.0	0.0	0.25	52.73	78.3	35.35	85.91	24	39.95	20.8	7.82	0.5826	0.3033	0.2433
47 m88o	1.0	0.0	0.125	52.31	77.37	57.23	96.24	36	39.08	20.42	3.02	0.6251	0.3266	0.2389
48 o00y	1.0	0.0	0.0	53.21	78.53	65.65	102.36	40	40.69	21.24	2.1	0.6355	0.3317	0.2484
49 n00w	0.0	0.0	0.0	0.0	0.0	0.0	0.01	289	0.0	0.0	0.0	0.0	0.0	0.0
50 n13w	0.125	0.125	0.125	8.96	-0.41	0.08	0.43	169	0.94	1.0	1.08	0.3109	0.3309	0.0117
51 n25w	0.25	0.25	0.25	27.82	0.0	-0.99	1.0	269	5.12	5.39	6.11	0.3082	0.3244	0.0631
52 n38w	0.375	0.375	0.375	41.94	0.88	-2.21	2.39	292	11.97	12.46	14.5	0.3075	0.3201	0.1458
53 n50w	0.5	0.5	0.5	54.1	1.61	-3.16	3.56	297	21.31	22.07	25.97	0.3073	0.3182	0.2581
54 n63w	0.625	0.625	0.625	65.58	1.98	-3.65	4.16	298	33.61	34.78	40.9	0.3076	0.3182	0.4068
55 n75w	0.75	0.75	0.75	75.95	2.21	-3.65	4.28	301	48.14	49.81	58.08	0.3085	0.3192	0.5826
56 n88w	0.875	0.875	0.875	85.36	1.68	-2.98	3.43	299	64.14	66.72	76.43	0.3094	0.3219	0.7804
57 n99w	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	1.0362

 $n = 88.59 / (88.59 - 1.23) = 1.014$ TUB-test chart KE42; Hue circle and colorimetric data
Measurement of LCD display and for $L_r = 0\%$ input: $olv^* setrgbcolor$
output: no change compared to input