

Colorimetric data of Television Luminous System TLS18a for CIE lightness $L^*_N=18$ of black

System:

TLS18a

Monitor:

LCD

Reflection:

$Y_N = 2.52$

$L^*_N = 18.01$

Color	$R=0.0^*1$	$g=0.0^*2$	$b=0.0^*3$	$L^*_N=LAB^*1a$	$a^*_N=LAB^*2a$	$b^*_N=LAB^*3a$	$C^*_{ab,a}=LAB^*ab,a$	$H^*_{ab,a}$	$X_N=XYZ^1a$	$Y_N=XYZ^2a$	$Z_N=XYZ^3a$	X_a	Y_a	Z_a	$Y_{88.59}$
00 o00y	1.0	0.0	0.0	55.23	73.6	52.22	90.24	35	41.93	23.16	4.79	0.6001	0.3314	0.2706	
01 o13y	1.0	0.125	0.0	55.9	71.56	52.76	88.91	36	42.21	23.82	4.91	0.595	0.3357	0.2783	
02 o25y	1.0	0.25	0.0	58.75	63.8	55.0	84.24	41	43.73	26.76	5.49	0.5756	0.3522	0.3126	
03 o38y	1.0	0.375	0.0	62.94	52.65	58.41	78.63	48	46.12	31.52	6.38	0.5489	0.3751	0.3683	
04 o50y	1.0	0.5	0.0	69.04	38.74	73.81	73.81	57	49.39	38.03	7.7	0.5193	0.3908	0.4443	
05 o63y	1.0	0.625	0.0	74.03	25.6	66.82	71.56	69	53.82	46.75	9.4	0.4894	0.4251	0.5463	
06 o75y	1.0	0.75	0.0	80.34	11.68	71.52	72.47	81	59.17	57.29	11.52	0.4624	0.4477	0.6695	
07 o88y	1.0	0.875	0.0	86.66	-1.41	76.28	76.29	91	65.25	69.32	13.91	0.4395	0.4669	0.81	
08 y00l	1.0	1.0	0.0	94.13	-15.45	82.18	83.62	101	73.65	85.58	17.0	0.4179	0.4856	1.0	
09 y13l	0.875	1.0	0.0	92.05	-26.66	79.42	83.77	109	64.36	80.82	16.62	0.3978	0.4995	0.9444	
10 y25l	0.75	1.0	0.0	90.3	-36.95	77.17	85.56	116	56.83	76.96	16.26	0.3787	0.5129	0.8992	
11 y38l	0.625	1.0	0.0	88.66	-47.57	75.14	88.94	122	49.97	73.45	15.9	0.3587	0.5272	0.8583	
12 y50l	0.5	1.0	0.0	87.2	-57.76	72.19	93.77	128	44.09	72.41	15.56	0.338	0.5414	0.8228	
13 y63l	0.375	1.0	0.0	86.04	-66.5	72.05	98.06	133	39.56	68.07	15.26	0.3219	0.5539	0.7953	
14 y75l	0.25	1.0	0.0	85.14	-73.75	70.85	102.28	136	36.13	66.28	15.1	0.3074	0.5641	0.7745	
15 y88l	0.125	1.0	0.0	84.55	-78.55	70.13	105.32	138	33.97	65.13	14.97	0.2978	0.571	0.761	
16 l00c	0.0	1.0	0.0	84.4	-79.73	69.93	106.06	139	33.44	64.83	14.94	0.2954	0.5726	0.7575	
17 l13c	0.0	1.0	0.125	84.43	-79.35	67.54	104.21	140	33.59	64.89	16.03	0.2933	0.5667	0.7583	
18 l25c	0.0	1.0	0.25	84.53	-77.32	58.47	96.94	143	34.3	65.09	20.63	0.2858	0.5423	0.7606	
19 l38c	0.0	1.0	0.375	84.79	-74.28	46.53	87.66	148	35.51	65.59	28.04	0.275	0.5079	0.7664	
20 l50c	0.0	1.0	0.5	85.14	-70.36	33.66	77.99	154	37.15	66.88	37.95	0.2628	0.4688	0.7745	
21 l63c	0.0	1.0	0.625	85.59	-65.45	20.37	68.55	163	39.28	69.17	50.47	0.2503	0.4281	0.7849	
22 l75c	0.0	1.0	0.75	86.12	-60.37	7.94	60.9	173	41.66	68.23	64.68	0.2386	0.3909	0.7973	
23 l88c	0.0	1.0	0.875	86.68	-55.28	-3.1	55.37	183	44.17	69.36	79.58	0.2288	0.3592	0.8104	
24 c00v	0.0	1.0	1.0	87.31	-50.42	-13.13	52.11	195	46.82	70.64	95.22	0.2201	0.3322	0.8255	
25 c13v	0.0	0.875	1.0	78.97	-38.61	-24.92	45.97	213	38.74	54.88	91.41	0.2094	0.2966	0.6413	
26 c25v	0.0	0.75	1.0	71.54	-26.96	-35.51	44.6	233	32.7	42.98	88.23	0.1995	0.2622	0.5022	
27 c38v	0.0	0.625	1.0	63.81	-13.47	-46.76	48.68	254	27.46	32.57	85.31	0.1889	0.2241	0.3806	
28 c50v	0.0	0.5	1.0	55.94	1.6	-58.15	58.18	272	23.02	23.85	82.31	0.1782	0.1846	0.2787	
29 c63v	0.0	0.375	1.0	47.83	-69.2	71.39	48.87	284	19.81	17.37	80.45	0.1684	0.1477	0.203	
30 c75v	0.0	0.25	1.0	42.02	-73.75	79.19	86.05	293	17.37	12.51	78.37	0.1604	0.1156	0.1462	
31 c88v	0.0	0.125	1.0	36.88	-87.26	87.26	99.3	298	15.86	9.47	77.33	0.1545	0.0923	0.1107	
32 v00m	0.0	0.0	1.0	35.56	-89.23	102.71	100.71	300	15.48	8.78	76.92	0.153	0.0868	0.1026	
33 v13m	0.125	0.0	1.0	36.0	-88.85	102.88	100.71	300	15.99	9.01	77.43	0.1561	0.088	0.1053	
34 v25m	0.25	0.0	1.0	37.85	-85.6	101.4	101.4	302	17.87	10.0	77.34	0.1698	0.0951	0.1169	
35 v38m	0.375	0.0	1.0	40.72	-81.22	100.0	100.0	306	21.11	11.69	78.07	0.1904	0.1054	0.1366	
36 v50m	0.5	0.0	1.0	44.64	-62.79	75.77	98.42	310	25.29	13.87	78.46	0.215	0.1179	0.162	
37 v63m	0.625	0.0	1.0	47.98	-60.7	62.79	97.62	314	30.98	16.78	79.39	0.2436	0.1319	0.196	
38 v75m	0.75	0.0	1.0	52.0	-63.23	66.95	95.19	319	37.46	20.15	80.02	0.2722	0.1464	0.2354	
39 v88m	0.875	0.0	1.0	55.97	-56.96	97.08	97.08	324	44.69	23.88	80.78	0.2992	0.1599	0.2791	
40 m00o	1.0	0.0	1.0	60.38	84.55	-50.11	98.29	329	53.85	28.54	81.78	0.328	0.1739	0.3335	
41 m13o	1.0	0.0	0.875	59.21	82.72	-40.41	92.07	334	51.22	27.25	66.98	0.3522	0.1874	0.3184	
42 m25o	1.0	0.0	0.75	58.13	80.61	-29.28	85.76	340	48.71	26.1	52.77	0.3818	0.2046	0.3049	
43 m38o	1.0	0.0	0.625	57.08	78.49	-16.28	80.17	348	46.33	25.01	39.71	0.4191	0.2262	0.2922	
44 m50o	1.0	0.0	0.5	56.17	76.25	-1.45	76.27	359	44.18	24.08	27.16	0.463	0.2524	0.2814	
45 m63o	1.5	0.0	0.375	54.79	74.57	14.57	74.57	371	42.44	23.17	17.57	0.5085	0.2795	0.2721	
46 m75o	1.0	0.0	0.25	54.79	73.31	30.79	79.51	373	41.2	22.73	10.34	0.5548	0.306	0.2655	
47 m88o	1.0	0.0	0.125	54.41	72.36	46.67	86.1	383	40.37	22.36	5.68	0.5901	0.3269	0.2613	
48 o00y	1.0	0.0	0.0	55.23	73.6	52.22	90.24	35	41.93	23.16	4.79	0.6001	0.3314	0.2706	
49 o00w	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	0.0294	
50 n13w	0.125	0.125	0.125	21.9	-0.17	0.04	0.18	169	3.3	3.49	3.79	0.3122	0.3296	0.0408	
51 n25w	0.25	0.25	0.25	33.47	0.0	-0.76	0.77	269	7.37	7.76	8.68	0.3097	0.3259	0.0907	
52 n38w	0.375	0.375	0.375	45.12	0.77	-1.94	2.09	292	14.03	14.63	16.83	0.3084	0.3216	0.1709	
53 n50w	0.5	0.5	0.5	56.05	1.48	-2.91	3.28	297	23.1	23.87	27.97	0.3079	0.3193	0.28	
54 n63w	0.625	0.625	0.625	66.75	1.87	-3.45	3.94	298	35.05	36.31	42.48	0.3079	0.3189	0.4242	
55 n75w	0.75	0.75	0.75	76.63	2.12	-3.5	4.1	301	49.16	50.92	59.18	0.3087	0.3197	0.5949	
56 n88w	0.875	0.875	0.875	85.68	1.62	-2.88	3.31	299	64.71	67.34	77.0	0.3095	0.3221	0.7868	
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	1.0351	

$n = 88.59 / (88.59 - 1.23) = 1.014$

TUB-test chart KE43; Hue circle and colorimetric data
Measurement of LCD display and for $L_r = 2.5\%$

input: 0.0^*setrgbcolor
output: no change compared to input