

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

System:

TLS18a

Monitor:

CRT

Reflection:

$Y_N = 2.52$

$L^*_N = 18.01$

Color	$r=oh^*1$	$g=oh^*2$	$b=oh^*3$	$L^*_a=LAB^*1_a$	$a^*_a=LAB^*2_a$	$b^*_a=LAB^*3_a$	$C^*_{ab,a}=LAB^*ab_a$	$H^*_{ab,a}$	$X_N=XYZ_1a$	$Y_N=XYZ_2a$	$Z_N=XYZ_3a$	x_a	y_a	$y_a/88.59$
00 o00y	1.0	0.0	0.0	57.78	70.38	55.37	89.55	38	44.55	25.73	5.05	0.5914	0.3416	0.3186
01 o13y	1.0	0.125	0.0	57.78	70.19	55.35	89.39	38	44.49	25.73	5.05	0.591	0.3419	0.3186
02 o25y	1.0	0.25	0.0	59.55	65.08	56.89	86.44	41	45.36	27.63	5.38	0.5788	0.3526	0.3421
03 o38y	1.0	0.375	0.0	63.54	53.49	60.32	80.62	48	47.34	32.24	6.17	0.552	0.376	0.3992
04 o50y	1.0	0.5	0.0	69.76	40.07	68.05	75.65	59	50.29	39.01	7.33	0.5204	0.4037	0.483
05 o63y	1.0	0.625	0.0	74.51	24.01	69.56	73.59	71	54.01	47.51	8.81	0.4896	0.4306	0.5882
06 o75y	1.0	0.75	0.0	80.46	9.29	74.48	75.06	83	58.39	57.5	10.54	0.4619	0.4548	0.7119
07 o88y	1.0	0.875	0.0	86.3	-4.09	79.55	79.65	93	63.38	68.59	12.36	0.4392	0.4752	0.8492
08 y00l	1.0	1.0	0.0	92.03	-17.21	83.82	85.57	102	68.56	80.77	14.63	0.4182	0.4926	1.0
09 y13l	0.875	1.0	0.0	89.81	-27.69	81.16	85.76	109	59.76	75.89	14.13	0.399	0.5066	0.9395
10 y25l	0.75	1.0	0.0	87.71	-38.99	78.59	87.74	116	51.65	71.47	13.7	0.3775	0.5224	0.8848
11 y38l	0.625	1.0	0.0	85.74	-50.61	76.2	91.48	124	44.38	67.47	13.29	0.3546	0.5391	0.8354
12 y50l	0.5	1.0	0.0	82.93	-62.23	74.0	99.59	132	36.94	60.83	12.92	0.331	0.5564	0.7915
13 y63l	0.375	1.0	0.0	83.44	-73.05	72.14	102.68	135	32.95	61.12	12.65	0.3088	0.5727	0.7567
14 y75l	0.25	1.0	0.0	81.34	-82.0	70.77	108.32	139	29.25	59.09	12.45	0.2902	0.5863	0.7316
15 y88l	0.125	1.0	0.0	80.74	-87.24	70.01	111.87	141	27.25	57.99	12.34	0.2793	0.5943	0.718
16 l00c	0.0	1.0	0.0	80.66	-87.94	69.9	112.35	142	27.0	57.86	12.33	0.2778	0.5953	0.7164
17 l13c	0.0	1.125	0.0	80.65	-87.89	69.58	112.11	142	27.0	57.85	12.45	0.2776	0.5945	0.7162
18 l25c	0.0	1.0	0.25	80.77	-86.44	63.42	107.22	144	27.49	58.05	12.05	0.2732	0.5771	0.7187
19 l38c	0.0	1.0	0.375	81.07	-83.07	50.81	97.39	149	28.67	58.6	11.55	0.2635	0.5385	0.7256
20 l50c	0.0	1.0	0.5	81.53	-78.16	35.11	88.11	155	30.47	61.33	11.33	0.2513	0.5302	0.7358
21 l63c	0.0	1.0	0.625	82.15	-72.45	21.59	75.61	163	32.76	60.57	10.79	0.2389	0.5447	0.7499
22 l75c	0.0	1.0	0.75	82.84	-65.93	7.52	66.37	173	35.5	61.86	10.82	0.2273	0.5361	0.7659
23 l88c	0.0	1.0	0.875	83.64	-59.1	-5.47	59.37	185	38.63	63.38	10.79	0.2172	0.5364	0.7847
24 c00v	0.0	1.0	1.0	84.57	-52.29	-17.33	55.1	198	42.11	65.16	9.43	0.2088	0.5321	0.8068
25 c13v	0.0	0.875	1.0	77.85	-40.24	-27.53	48.77	214	36.75	52.95	92.4	0.2018	0.2908	0.6556
26 c25v	0.0	0.75	1.0	70.75	-26.4	-38.67	46.84	236	31.9	41.82	90.79	0.1939	0.2542	0.5177
27 c38v	0.0	0.675	1.0	63.14	-10.54	-50.46	51.56	258	27.46	31.75	88.88	0.1855	0.2144	0.3931
28 c50v	0.0	0.5	1.0	55.34	6.76	-63.02	63.39	276	23.6	23.26	87.61	0.1755	0.173	0.288
29 c63v	0.0	0.375	1.0	47.62	26.24	-75.82	80.24	289	20.62	16.49	86.89	0.1663	0.133	0.2042
30 c75v	0.0	0.25	1.0	41.02	44.41	-86.76	97.48	297	18.58	11.87	86.28	0.1591	0.1017	0.147
31 c88v	0.0	0.125	1.0	37.95	54.02	-92.18	106.85	300	17.89	10.06	86.46	0.1564	0.0879	0.1245
32 v00m	0.0	0.0	1.0	37.8	53.36	-91.84	106.22	300	17.65	9.98	85.62	0.1558	0.0881	0.1235
33 v13m	0.125	0.0	1.0	38.1	54.08	-91.83	106.58	300	18.02	10.14	86.33	0.1574	0.0886	0.1256
34 v25m	0.25	0.0	1.0	40.08	56.08	-88.34	104.64	302	20.08	11.3	86.21	0.1707	0.0961	0.1399
35 v38m	0.375	0.0	1.0	43.3	59.95	-82.89	102.3	306	23.89	13.26	86.37	0.1933	0.1081	0.1651
36 v50m	0.5	0.0	1.0	47.3	64.83	-76.4	100.2	310	29.27	16.35	86.93	0.2121	0.1227	0.2014
37 v63m	0.625	0.0	1.0	51.51	68.5	-68.7	97.02	315	35.32	19.71	86.32	0.2499	0.1394	0.244
38 v75m	0.75	0.0	1.0	55.92	73.47	-61.49	95.81	320	42.88	23.84	86.88	0.2792	0.1552	0.2951
39 v88m	0.875	0.0	1.0	60.22	77.8	-54.05	94.74	325	51.02	28.37	86.84	0.3069	0.1707	0.3513
40 m00o	1.0	0.0	1.0	64.35	82.37	-47.28	94.98	330	59.91	33.24	87.34	0.332	0.1842	0.4115
41 m13o	1.0	0.0	0.875	62.92	80.11	-35.51	87.63	336	56.44	31.49	68.75	0.3602	0.201	0.3899
42 m25o	1.0	0.0	0.75	61.64	77.77	-22.22	80.88	344	53.33	29.98	51.75	0.3949	0.222	0.3712
43 m38o	1.0	0.0	0.675	60.46	75.6	-7.31	75.95	354	50.57	28.64	36.67	0.4364	0.2471	0.3545
44 m50o	1.0	0.0	0.5	59.45	78.58	6.61	78.81	4	50.05	27.51	25.99	0.4833	0.2657	0.3407
45 m63o	1.0	0.0	0.375	57.92	71.99	55.62	76.86	21	46.37	26.62	14.33	0.5311	0.3048	0.3252
46 m75o	1.0	0.0	0.25	58.07	70.92	44.66	83.81	32	45.17	26.04	7.8	0.5717	0.3296	0.3224
47 m88o	1.0	0.0	0.125	57.85	70.52	54.9	89.38	38	44.71	25.81	5.17	0.5907	0.341	0.3195
48 o00y	1.0	0.0	0.0	57.78	70.38	55.37	89.55	38	44.55	25.73	5.05	0.5914	0.3416	0.3186
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	0.0312
50 n13w	0.125	0.125	0.125	18.91	1.99	0.65	2.1	18	2.7	2.73	2.87	0.3249	0.3287	0.0338
51 n25w	0.25	0.25	0.25	29.31	4.9	1.18	5.36	24	6.1	5.96	5.96	0.3385	0.3307	0.0738
52 n38w	0.375	0.375	0.375	43.3	3.64	2.35	4.33	33	13.25	13.36	13.56	0.3298	0.3326	0.1654
53 n50w	0.5	0.5	0.5	56.02	2.45	1.85	3.1	37	23.3	23.83	24.91	0.3229	0.3317	0.2963
54 n63w	0.625	0.625	0.625	67.41	1.59	2.2	2.2	44	35.8	37.17	39.2	0.3192	0.3314	0.4602
55 n75w	0.75	0.75	0.75	77.67	0.96	0.9	1.31	43	50.4	52.66	56.38	0.3161	0.3303	0.6519
56 n88w	0.875	0.875	0.875	86.93	0.63	0.32	0.71	27	66.68	69.86	75.66	0.3142	0.3292	0.865
57 n99w	1.0	1.0	1.0	95.41	0.0	0.0	0.01	85	84.2	88.59	96.46	0.3127	0.329	1.0968

$n = 88.59 / (88.59 - 0.05) = 1.001$

TUB-test chart KE47; Hue circle and colorimetric data
Measurement of CRT display and for $L_r = 2.5\%$

input: $oh^* \text{ setrgbcolor}$
output: no change compared to input