

Colorimetric data of Television Luminous System TLS70a for CIE lightness $L^*_{N=70}$ of black

System:

TLS70a

Monitor:

CRT

Reflection:

$Y_N = 40.32$

$L^*_{N=69.7}$

Color	$R=oh^*1$	$g=oh^*2$	$b=oh^*3$	$L^*_{N=LAB^*1a}$	$a^*_{N=LAB^*2a}$	$b^*_{N=LAB^*3a}$	$C^*_{ab,a}=LAB^*ab,a$	$h^*_{ab,a}$	$X_N=XYZ_{1a}$	$Y_N=XYZ_{2a}$	$Z_N=XYZ_{3a}$	X_a	Y_a	$Y_{a/88.59}$
00 o00y	1.0	0.0	0.0	78.07	28.06	13.01	30.93	25	61.96	53.34	45.19	0.3861	0.3323	0.6334
01 o13y	1.0	0.125	0.0	78.07	27.98	13.01	30.85	25	61.93	53.34	45.19	0.3859	0.3324	0.6334
02 o25y	1.0	0.25	0.0	78.7	26.44	13.88	29.86	28	62.42	54.4	45.38	0.3848	0.3354	0.6461
03 o38y	1.0	0.375	0.0	80.17	22.63	15.94	27.68	35	63.52	56.99	45.82	0.3819	0.3426	0.6768
04 o50y	1.0	0.5	0.0	82.36	18.36	18.84	25.63	47	65.18	58.07	46.47	0.378	0.3525	0.7219
05 o63y	1.0	0.625	0.0	84.77	11.25	22.56	24.95	63	67.27	65.55	47.3	0.3735	0.3639	0.7785
06 o75y	1.0	0.75	0.0	87.56	4.57	26.05	26.45	80	69.72	71.15	48.27	0.3686	0.3762	0.845
07 o88y	1.0	0.875	0.0	90.49	-2.1	30.04	30.11	94	72.52	77.37	49.29	0.3641	0.3884	0.9189
08 y00l	1.0	1.0	0.0	93.54	-9.22	33.98	35.21	105	75.43	84.2	50.57	0.3588	0.4006	1.0
09 y13l	0.875	1.0	0.0	92.34	-14.36	32.19	35.26	114	70.49	81.47	50.29	0.3485	0.4028	0.9675
10 y25l	0.75	1.0	0.0	91.23	-19.53	30.53	36.25	123	65.94	78.99	50.04	0.3382	0.4051	0.938
11 y38l	0.625	1.0	0.0	90.2	-24.44	29.0	37.93	130	61.87	76.75	49.82	0.3283	0.4073	0.9114
12 y50l	0.5	1.0	0.0	89.28	-29.92	27.62	39.99	136	58.11	73.26	49.61	0.3182	0.4092	0.8878
13 y63l	0.375	1.0	0.0	88.54	-32.76	26.49	42.14	141	55.46	73.18	49.46	0.3114	0.4109	0.8691
14 y75l	0.25	1.0	0.0	87.99	-35.69	25.67	43.98	144	53.38	72.05	49.34	0.3054	0.4122	0.8556
15 y88l	0.125	1.0	0.0	87.69	-37.32	25.23	45.05	146	52.26	71.43	49.28	0.3021	0.413	0.8483
16 l00c	0.0	1.0	0.0	87.66	-37.53	25.17	45.2	146	52.12	71.36	49.28	0.3017	0.4131	0.8474
17 l13c	0.0	1.0	0.125	87.65	-37.51	25.09	45.13	146	52.12	71.35	49.34	0.3016	0.4129	0.8473
18 l25c	0.0	1.0	0.25	87.71	-37.04	23.69	43.98	147	52.39	71.46	50.8	0.3	0.4092	0.8487
19 l38c	0.0	1.0	0.375	87.86	-35.96	20.32	41.31	151	53.06	71.77	54.45	0.2879	0.4003	0.8524
20 l50c	0.0	1.0	0.5	88.08	-34.33	15.93	37.69	156	53.07	72.34	59.93	0.2804	0.3879	0.8579
21 l63c	0.0	1.0	0.625	88.39	-32.39	9.93	33.89	163	55.35	72.87	66.92	0.2936	0.3734	0.8655
22 l75c	0.0	1.0	0.75	88.73	-30.05	3.67	30.28	173	56.89	73.6	75.35	0.2764	0.3576	0.8741
23 l88c	0.0	1.0	0.875	89.14	-27.49	-2.8	27.65	186	58.64	74.45	84.89	0.269	0.3416	0.8842
24 c00v	0.0	1.0	1.0	89.6	-24.84	-9.24	26.52	200	60.59	75.45	95.32	0.2619	0.3261	0.8961
25 c13v	0.0	0.875	1.0	86.31	-17.87	-14.16	22.81	218	57.59	68.6	94.18	0.2613	0.3113	0.8147
26 c25v	0.0	0.75	1.0	83.1	-10.83	-19.07	21.94	240	54.87	62.36	93.28	0.2607	0.2962	0.7406
27 c38v	0.0	0.675	1.0	80.02	-3.92	-23.66	23.99	261	52.38	56.72	92.21	0.2602	0.2817	0.6735
28 c50v	0.0	0.5	1.0	77.25	2.26	-27.95	28.05	275	50.21	51.95	91.5	0.2593	0.2683	0.617
29 c63v	0.0	0.375	1.0	74.92	7.76	-31.68	28.4	284	50.54	48.16	91.09	0.2585	0.2564	0.5719
30 c75v	0.0	0.25	1.0	73.26	11.75	-34.3	36.27	289	47.39	45.57	90.75	0.258	0.248	0.5411
31 c88v	0.0	0.125	1.0	72.59	13.56	-35.53	38.04	291	47.01	44.55	90.85	0.2577	0.2442	0.5291
32 v00m	0.0	0.0	1.0	72.56	13.31	-35.26	37.7	291	46.87	44.5	90.38	0.2579	0.2448	0.5285
33 v13m	0.125	0.0	1.0	72.62	13.63	-35.43	37.97	291	47.08	44.59	90.78	0.2581	0.2444	0.5296
34 v25m	0.25	0.0	1.0	73.05	15.0	-34.65	37.76	293	48.24	45.24	90.71	0.2619	0.2456	0.5373
35 v38m	0.375	0.0	1.0	73.8	17.56	-33.41	37.75	298	50.37	46.4	90.8	0.2686	0.2474	0.551
36 v50m	0.5	0.0	1.0	74.84	21.03	-31.84	38.17	303	53.39	48.02	91.11	0.2773	0.2494	0.5703
37 v63m	0.625	0.0	1.0	76.05	24.38	-29.52	38.2	310	56.79	49.96	91.77	0.2875	0.2529	0.5936
38 v75m	0.75	0.0	1.0	77.44	28.58	-27.33	39.55	316	61.02	52.27	91.08	0.2986	0.2558	0.6208
39 v88m	0.875	0.0	1.0	78.94	32.64	-24.74	40.96	323	65.59	54.82	91.06	0.3101	0.2592	0.651
40 m00o	1.0	0.0	1.0	80.49	36.89	-22.26	43.09	329	70.58	57.55	91.34	0.3216	0.2622	0.6834
41 m13o	1.0	0.0	0.875	79.94	35.07	-15.75	38.44	336	68.63	56.57	80.92	0.333	0.2744	0.6718
42 m25o	1.0	0.0	0.75	79.45	33.31	-9.16	34.55	345	66.89	55.72	71.39	0.3448	0.2872	0.6617
43 m38o	1.0	0.0	0.675	79.02	31.71	-2.75	31.83	355	65.34	54.97	62.93	0.3566	0.3	0.6528
44 m50o	1.0	0.0	0.5	78.66	32.63	2.07	32.69	4	65.05	54.34	56.94	0.3689	0.3082	0.6453
45 m63o	1.0	0.0	0.375	79.36	28.17	7.99	30.25	15	62.98	53.03	50.4	0.3767	0.322	0.6393
46 m75o	1.0	0.0	0.25	78.17	28.44	11.5	30.68	22	62.31	53.51	46.73	0.3833	0.3292	0.6355
47 m88o	1.0	0.0	0.125	78.1	28.16	12.97	31.0	25	62.05	53.38	45.26	0.3861	0.3322	0.6339
48 o00y	1.0	0.0	0.0	78.07	28.06	13.01	30.93	25	61.96	53.34	45.19	0.3861	0.3323	0.6334
49 o00w	0.0	0.0	0.0	69.7	0.0	0.0	0.01	0	38.32	40.32	43.9	0.3127	0.329	0.4788
50 n13w	0.125	0.125	0.125	69.78	0.19	0.06	0.2	18	38.49	40.44	43.97	0.3132	0.329	0.4802
51 n25w	0.25	0.25	0.25	71.04	0.76	0.32	0.83	23	40.4	42.25	45.71	0.3147	0.3292	0.5017
52 n38w	0.375	0.375	0.375	73.8	0.9	0.56	1.06	32	44.41	46.4	49.97	0.3154	0.3296	0.551
53 n50w	0.5	0.5	0.5	77.48	1.03	0.85	1.03	36	50.04	56.33	56.33	0.3153	0.3297	0.6215
54 n63w	0.625	0.625	0.625	81.7	0.65	0.82	0.9	43	57.06	64.35	64.35	0.3149	0.3298	0.7096
55 n75w	0.75	0.75	0.75	86.23	0.45	0.62	0.62	43	65.24	68.44	73.98	0.3142	0.3296	0.8128
56 n88w	0.875	0.875	0.875	90.82	0.33	0.17	0.37	27	74.37	78.09	84.79	0.3135	0.3291	0.9274
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	1.0521

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

TUB-test chart KE48; Hue circle and colorimetric data
Measurement of CRT display and for $L_r = 40\%$

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