

Colorimetric data of Television Luminous System TLS70a for CIE lightness $L^*_N=70$ of black

System:

TLS70a

Monitor:

LCD

Reflection:

$Y_N = 40.32$

$L^*_N = 69.7$

Color	$r=ol^*v_1$	$g=ol^*v_2$	$b=ol^*v_3$	$L^*_a=LAB^*_1a$	$a^*_a=LAB^*_2a$	$b^*_a=LAB^*_3a$	$C^*_{ab}a_2=LAB^*_{ab}a_2$	$X_2=XYZ_{1a}$	$Y_2=XYZ_{2a}$	$Z_2=XYZ_{3a}$	x_a	y_a	$Y_2/Y_{88.59}$	
00 o00y	1.0	0.0	0.0	72.22	28.3	11.69	30.62	22	60.49	51.89	45.05	0.3842	0.3296	0.5971
01 ol3y	1.0	0.125	0.0	77.44	27.72	11.99	30.21	23	60.65	52.26	45.12	0.3838	0.3307	0.6014
02 o25y	1.0	0.25	0.0	78.41	25.53	13.32	28.8	28	61.5	53.91	45.44	0.3823	0.3352	0.6204
03 o38y	1.0	0.375	0.0	79.94	22.04	15.41	26.9	35	62.84	56.58	45.94	0.38	0.3422	0.6511
04 o50y	1.0	0.5	0.0	81.96	18.53	17.81	25.2	46	63.7	60.68	46.53	0.3769	0.351	0.6931
05 o63y	1.0	0.625	0.0	84.55	11.96	21.53	24.63	61	67.16	65.13	47.63	0.3733	0.362	0.7494
06 o75y	1.0	0.75	0.0	87.5	5.76	25.38	26.02	77	70.16	71.04	48.82	0.3692	0.3738	0.8174
07 o88y	1.0	0.875	0.0	90.68	-0.73	29.47	29.47	91	73.57	77.78	50.16	0.3651	0.386	0.8951
08 y00l	1.0	1.0	0.0	94.7	-8.44	34.63	35.65	104	78.28	86.9	51.9	0.3606	0.4003	1.0
09 y13l	0.875	1.0	0.0	93.55	-14.14	32.87	35.79	113	73.07	84.23	51.68	0.3496	0.4031	0.9693
10 y25l	0.75	1.0	0.0	92.6	-19.06	31.44	36.77	121	68.85	82.07	51.48	0.3402	0.4055	0.9443
11 y38l	0.625	1.0	0.0	91.73	-23.82	30.14	38.42	128	65.0	80.1	51.28	0.331	0.4079	0.9217
12 y50l	0.5	1.0	0.0	90.96	-28.08	28.8	40.56	134	61.7	77.08	51.09	0.3227	0.4101	0.8954
13 y63l	0.375	1.0	0.0	90.36	-31.51	28.14	42.25	138	59.16	77.08	50.92	0.3161	0.4118	0.887
14 y75l	0.25	1.0	0.0	89.9	-34.2	27.43	43.85	141	57.24	76.08	50.83	0.3108	0.4131	0.8754
15 y88l	0.125	1.0	0.0	89.59	-35.89	26.98	44.91	143	56.03	75.43	50.76	0.3075	0.414	0.868
16 l00c	0.0	1.0	0.0	89.52	-36.29	26.86	45.16	143	55.73	75.26	50.74	0.3067	0.4141	0.8661
17 l13c	0.0	1.0	0.125	89.53	-36.16	26.27	44.7	144	55.82	75.3	51.35	0.3059	0.4127	0.8665
18 l25c	0.0	1.0	0.25	89.59	-35.39	23.8	42.66	146	56.21	75.41	53.93	0.303	0.4064	0.8678
19 l38c	0.0	1.0	0.375	89.72	-34.27	20.06	39.71	150	56.89	75.69	58.09	0.2984	0.397	0.871
20 l50c	0.0	1.0	0.5	89.9	-32.79	15.36	36.22	155	57.81	76.08	65.64	0.2861	0.3851	0.8754
21 l63c	0.0	1.0	0.625	90.13	-30.89	9.82	32.42	162	59.01	76.58	70.67	0.2862	0.3713	0.8812
22 l75c	0.0	1.0	0.75	90.4	-28.88	4.01	29.17	172	60.34	77.17	78.64	0.2792	0.357	0.888
23 l88c	0.0	1.0	0.875	90.69	-26.8	-1.62	26.86	183	61.75	77.8	86.98	0.2726	0.3435	0.8953
24 c00v	0.0	1.0	1.0	91.02	-24.78	-7.1	25.79	196	63.23	78.53	95.76	0.2662	0.3306	0.9036
25 c13v	0.0	0.875	1.0	86.84	-17.45	-12.86	21.69	216	58.71	69.69	93.63	0.2644	0.3139	0.8019
26 c25v	0.0	0.75	1.0	83.45	-11.18	-17.5	20.78	237	55.32	63.01	91.84	0.2632	0.2998	0.7251
27 c38v	0.0	0.675	1.0	80.28	-5.05	-21.84	22.42	257	52.38	57.17	90.21	0.2622	0.2862	0.6579
28 c50v	0.0	0.5	1.0	77.45	0.53	-25.54	25.55	271	49.89	52.28	88.52	0.2616	0.2742	0.6016
29 c63v	0.0	0.375	1.0	75.23	5.18	-28.62	29.1	280	48.09	48.65	87.48	0.261	0.2641	0.5598
30 c75v	0.0	0.25	1.0	73.5	8.84	-30.79	32.04	286	46.72	45.92	86.31	0.2611	0.2566	0.5285
31 c88v	0.0	0.125	1.0	72.38	11.29	-32.3	34.23	289	45.87	44.22	85.73	0.2609	0.2515	0.5088
32 v00m	0.0	0.0	1.0	72.11	11.8	-32.58	34.66	290	45.66	43.83	85.5	0.2609	0.2505	0.5044
33 v13m	0.125	0.0	1.0	72.2	12.23	-32.64	34.87	291	45.94	43.96	85.79	0.2615	0.2502	0.5058
34 v25m	0.25	0.0	1.0	72.57	13.61	-31.97	34.75	293	47.0	44.52	85.74	0.2651	0.2511	0.5122
35 v38m	0.375	0.0	1.0	73.19	15.96	-31.19	35.04	297	48.81	45.46	86.15	0.2706	0.252	0.5231
36 v50m	0.5	0.0	1.0	73.99	18.86	-29.98	35.42	302	51.16	46.68	86.37	0.2777	0.2534	0.5372
37 v63m	0.625	0.0	1.0	75.02	22.68	-28.56	36.48	308	54.35	48.12	86.89	0.2869	0.2549	0.5607
38 v75m	0.75	0.0	1.0	76.2	26.68	-26.79	37.82	315	57.99	50.21	87.24	0.2967	0.2569	0.5777
39 v88m	0.875	0.0	1.0	77.46	30.89	-24.91	39.69	321	62.04	52.3	87.64	0.3071	0.2589	0.6018
40 m00o	1.0	0.0	1.0	78.99	35.95	-22.67	42.51	328	67.18	54.91	88.23	0.3194	0.2611	0.6319
41 m13o	1.0	0.0	0.875	78.57	34.47	-17.35	38.59	333	65.7	54.19	79.92	0.3288	0.2712	0.6236
42 m25o	1.0	0.0	0.75	78.19	32.91	-11.79	34.97	340	64.29	53.54	71.96	0.3388	0.2821	0.6161
43 m38o	1.0	0.0	0.675	77.83	31.41	-6.05	31.99	349	62.96	52.93	64.35	0.3493	0.2937	0.6091
44 m50o	1.0	0.0	0.5	77.53	29.94	-0.48	29.94	359	61.75	52.41	57.59	0.3595	0.3052	0.6031
45 m63o	1.0	0.0	0.375	77.26	28.57	4.23	28.57	371	60.78	51.77	52.22	0.3684	0.315	0.598
46 m75o	1.0	0.0	0.25	77.07	27.96	8.08	29.91	386	60.09	51.65	48.16	0.3758	0.323	0.5944
47 m88o	1.0	0.0	0.125	76.95	27.37	11.68	29.38	21	59.62	51.45	45.55	0.3807	0.3285	0.592
48 o00y	1.0	0.0	0.0	77.22	28.3	11.69	30.62	22	60.49	51.89	45.05	0.3842	0.3296	0.5971
49 n00w	0.0	0.0	0.0	69.7	0.0	0.0	0.0	0	38.32	40.32	43.9	0.3127	0.329	0.464
50 n13w	0.125	0.125	0.125	70.08	-0.01	0.0	0.02	169	38.83	40.86	44.49	0.3127	0.3291	0.4702
51 n25w	0.25	0.25	0.25	71.73	0.0	-0.13	0.14	269	41.11	43.26	47.23	0.3124	0.3287	0.4978
52 n38w	0.375	0.375	0.375	74.26	0.2	-0.5	0.55	291	44.84	47.11	51.8	0.3119	0.3277	0.5421
53 n50w	0.5	0.5	0.5	77.49	0.5	-0.98	1.11	297	49.93	53.05	58.05	0.3114	0.3265	0.6023
54 n63w	0.625	0.625	0.625	81.44	0.76	-1.41	1.61	308	56.64	59.27	66.19	0.311	0.3235	0.682
55 n75w	0.75	0.75	0.75	85.74	0.99	-1.41	1.93	301	64.55	62.46	75.55	0.311	0.325	0.7763
56 n88w	0.875	0.875	0.875	90.17	0.83	-1.49	1.71	299	73.27	76.67	85.55	0.3111	0.3256	0.8823
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	1.0194

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

TUB best chart KE44; Hue circle and colorimetric data
 Measurement of LCD display and for Lr = 40%

input: $ol^*v = stbrcgcolor$
 output: no change compared to input

See original or copy: http://web.me.com/Klaus_richter/KE44/KE44LONI.TXT /PS
 Technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20100601-KE44/KE44LONI.TXT /PS
 application for measurement of printer or monitor systems

TUB material: code=thata