

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

System:

TLS00a

Projector:

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	36.64	60.14	59.89	84.88	45	17.98	9.35	0.23	0.6525	0.3391	0.15
01 o13y	1.0	0.125	0.0	36.96	59.36	59.82	84.27	45	18.09	9.52	0.27	0.6489	0.3413	0.1527
02 o25y	1.0	0.25	0.0	38.4	55.69	60.54	82.25	47	18.58	10.32	0.4	0.6343	0.3522	0.1655
03 o38y	1.0	0.375	0.0	42.07	43.97	62.58	76.48	55	19.38	12.55	0.7	0.594	0.3846	0.2013
04 o50y	1.0	0.5	0.0	46.78	36.28	62.76	72.49	60	21.97	15.85	1.28	0.5619	0.4054	0.2544
05 o63y	1.0	0.625	0.0	53.92	21.94	65.75	69.31	72	25.7	21.9	2.24	0.5156	0.4394	0.3515
06 o75y	1.0	0.75	0.0	62.11	7.64	70.36	70.77	84	31.04	30.53	3.62	0.4761	0.4683	0.4899
07 o88y	1.0	0.875	0.0	70.54	-4.15	76.03	76.14	93	38.15	41.52	5.33	0.4488	0.4884	0.6662
08 y00l	1.0	1.0	0.0	83.08	-16.34	85.5	87.05	101	52.69	62.32	8.46	0.4267	0.5048	1.0
09 y13l	0.875	1.0	0.0	81.14	-24.37	82.84	86.35	106	46.63	58.73	8.26	0.4104	0.5169	0.9424
10 y25l	0.75	1.0	0.0	74.95	-33.4	76.37	83.36	114	35.07	48.2	7.08	0.3881	0.5335	0.7734
11 y38l	0.625	1.0	0.0	74.0	-40.23	74.73	84.87	118	31.95	46.7	7.08	0.3727	0.5447	0.7493
12 y50l	0.5	1.0	0.0	73.38	-45.34	73.66	86.5	122	29.86	45.74	7.08	0.3611	0.5532	0.7339
13 y63l	0.375	1.0	0.0	73.02	-48.56	73.02	87.7	124	28.62	45.19	7.09	0.3538	0.5586	0.7251
14 y75l	0.25	1.0	0.0	72.83	-50.28	72.71	88.41	125	27.97	44.9	7.08	0.3498	0.5616	0.7205
15 y88l	0.125	1.0	0.0	72.75	-51.03	72.56	88.71	125	27.7	44.79	7.09	0.3481	0.5628	0.7187
16 l00c	0.0	1.0	0.0	72.74	-51.16	72.53	88.76	125	27.66	44.77	7.09	0.3478	0.563	0.7184
17 l13c	0.0	1.0	0.125	72.78	-51.0	71.64	87.95	125	27.73	44.82	7.35	0.3471	0.561	0.7192
18 l25c	0.0	1.0	0.25	72.88	-50.49	67.84	84.57	127	27.98	44.98	8.48	0.3435	0.5524	0.7218
19 l38c	0.0	1.0	0.375	73.08	-49.33	60.28	77.9	129	28.49	45.29	11.05	0.3358	0.5338	0.7266
20 l50c	0.0	1.0	0.5	73.46	-47.23	49.16	68.18	134	29.46	45.87	15.79	0.3233	0.5034	0.736
21 l63c	0.0	1.0	0.625	74.1	-43.94	35.15	56.27	141	31.07	46.87	23.64	0.3059	0.4614	0.752
22 l75c	0.0	1.0	0.75	74.72	-39.36	19.71	44.03	153	33.07	47.84	34.77	0.2859	0.4135	0.7676
23 l88c	0.0	1.0	0.875	76.21	-33.56	3.44	33.74	174	36.64	50.24	51.22	0.2653	0.3638	0.8061
24 c00v	0.0	1.0	1.0	77.56	-27.51	-10.78	29.55	201	40.34	52.47	69.38	0.2487	0.3235	0.842
25 c13v	0.0	0.875	1.0	69.83	-18.71	-22.59	29.34	230	32.95	40.51	67.56	0.2337	0.2873	0.6501
26 c25v	0.0	0.75	1.0	60.64	-6.82	-36.88	37.52	260	25.74	28.84	65.72	0.214	0.2397	0.4627
27 c38v	0.0	0.675	1.0	51.3	7.35	-51.74	52.27	278	20.01	19.53	64.29	0.1927	0.1881	0.3134
28 c50v	0.0	0.5	1.0	42.9	22.36	-65.4	69.12	289	16.02	13.09	63.33	0.1733	0.1416	0.21
29 c63v	0.0	0.375	1.0	36.41	35.81	-76.05	84.07	295	13.63	9.22	62.73	0.1592	0.1078	0.148
30 c75v	0.0	0.25	1.0	32.11	45.89	-83.2	95.03	299	12.35	7.13	62.44	0.1508	0.0871	0.1145
31 c88v	0.0	0.125	1.0	30.13	50.78	-86.54	100.35	300	11.83	6.29	62.35	0.147	0.0782	0.1009
32 v00m	0.0	0.0	1.0	29.65	52.07	-87.36	101.71	301	11.71	6.09	62.34	0.1461	0.076	0.0978
33 v13m	0.125	0.0	1.0	29.89	52.33	-87.61	102.06	301	11.9	6.19	63.09	0.1466	0.0763	0.0993
34 v25m	0.25	0.0	1.0	30.04	52.53	-86.6	101.3	301	12.02	6.25	62.26	0.1493	0.0777	0.1003
35 v38m	0.375	0.0	1.0	30.88	53.51	-85.01	100.46	302	12.69	6.6	62.08	0.156	0.0811	0.1059
36 v50m	0.5	0.0	1.0	32.47	55.29	-82.3	99.16	304	14.02	7.29	62.11	0.1681	0.0874	0.117
37 v63m	0.625	0.0	1.0	34.81	58.03	-77.84	97.1	307	16.17	8.4	61.64	0.1875	0.0975	0.1349
38 v75m	0.75	0.0	1.0	37.85	61.58	-71.84	94.62	311	19.26	10.0	60.8	0.2139	0.1111	0.1605
39 v88m	0.875	0.0	1.0	43.2	67.07	-66.02	94.12	315	25.44	13.29	64.65	0.2461	0.1286	0.2133
40 m00o	1.0	0.0	1.0	48.11	72.19	-60.98	94.51	320	32.19	16.88	68.68	0.2734	0.1434	0.2709
41 m13o	1.0	0.0	0.875	44.16	68.22	-45.05	81.76	327	26.72	13.95	44.83	0.3125	0.1632	0.2238
42 m25o	1.0	0.0	0.75	41.12	65.33	-26.56	70.53	338	22.99	11.94	26.62	0.3735	0.194	0.1916
43 m38o	1.0	0.0	0.675	39.41	63.33	-9.6	64.05	351	20.98	10.9	15.83	0.4398	0.2285	0.1749
44 m50o	1.0	0.0	0.5	38.17	61.9	8.12	62.43	7	19.59	10.18	8.44	0.5127	0.2664	0.1634
45 m63o	1.0	0.0	0.375	37.38	61.03	25.73	66.23	23	18.76	9.75	3.97	0.5777	0.3001	0.1564
46 m75o	1.0	0.0	0.25	36.96	60.54	42.82	74.15	35	18.32	9.52	1.55	0.6234	0.3238	0.1527
47 m88o	1.0	0.0	0.125	36.78	60.29	56.46	82.6	43	18.12	9.42	0.49	0.6466	0.3361	0.1511
48 o00y	1.0	0.0	0.0	36.64	60.14	59.89	84.88	45	17.98	9.35	0.23	0.6525	0.3391	0.15
49 n00w	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0	0.0	0.0	0.0	0.0	0.0	0.0
50 n13w	0.125	0.125	0.125	2.06	-0.45	-0.71	0.86	238	0.21	0.23	0.3	0.2807	0.3114	0.0037
51 n25w	0.25	0.25	0.25	10.74	-0.38	-2.06	2.1	259	1.15	1.23	1.52	0.2956	0.3142	0.0197
52 n38w	0.375	0.375	0.375	22.45	-0.22	-2.06	2.09	264	3.45	3.64	4.35	0.3014	0.3184	0.0584
53 n50w	0.5	0.5	0.5	34.27	-0.08	-2.1	2.12	267	7.72	8.14	9.52	0.3043	0.3205	0.1306
54 n63w	0.625	0.625	0.625	46.51	0.02	-2.12	2.13	270	14.87	15.65	18.07	0.3061	0.322	0.2511
55 n75w	0.75	0.75	0.75	61.23	-0.17	-1.78	1.79	264	28.0	29.51	33.44	0.3079	0.3245	0.4735
56 n88w	0.875	0.875	0.875	80.8	0.05	-0.03	0.07	324	55.26	58.12	63.32	0.3127	0.3289	0.9326
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	1.4219

 $n = 88.59 / (88.59 - 0.28) = 1.003$ TUB-test chart KE50; Hue circle and colorimetric data
Measurement of LCD projector and for $L_r = 0\%$ input: $olv^* setrgbcolor$
output: no change compared to input