

Farbmetrische Daten von Fernseh-Lichtfarben-System TLS18a für Helligkeit $L^*_N=18$ von Schwarz

System:

TLS18a

Projektor:

LCD

Reflexion:

$Y_N = 2.52$

$L^*_N = 18.01$

Farbe	$R=olv^*1$	$g=olv^*2$	$b=olv^*3$	$L^*_a=LAB^*1_a$	$a^*_a=LAB^*2_a$	$b^*_a=LAB^*3_a$	$C^*_{ab,a}=LAB^*ab_a$	$h^*_{ab,a}$	$X_N=XYZ^*1_a$	$Y_N=XYZ^*2_a$	$Z_N=XYZ^*3_a$	x_N	y_N	$Y_N/88.59$
00 o00y	1.0	0.0	0.0	40.57	52.89	37.36	64.75	35	19.87	11.6	2.97	0.577	0.3369	0.1839
01 o13y	1.0	0.125	0.0	40.84	52.27	37.53	64.35	36	19.97	11.76	3.01	0.5748	0.3386	0.1865
02 o25y	1.0	0.25	0.0	42.06	49.31	38.85	62.78	38	20.44	12.54	3.13	0.5661	0.3473	0.1989
03 o38y	1.0	0.375	0.0	45.23	39.4	42.47	57.93	47	21.22	14.1	3.42	0.5393	0.3738	0.2332
04 o49y	1.0	0.5	0.0	53.74	33.01	45.64	56.89	55	23.04	17.92	3.99	0.5201	0.3926	0.2841
05 o63y	1.0	0.625	0.0	60.21	20.31	52.7	56.48	69	27.36	23.8	4.92	0.4879	0.4244	0.3774
06 o75y	1.0	0.75	0.0	63.49	7.18	59.86	60.29	83	32.55	32.18	6.26	0.4585	0.4533	0.5103
07 o88y	1.0	0.875	0.0	71.46	-3.94	67.28	67.4	93	39.46	42.86	7.92	0.4373	0.4749	0.6795
08 y00l	1.0	1.0	0.0	83.48	-15.72	78.48	80.04	101	53.58	63.07	10.96	0.4199	0.4942	1.0
09 y13l	0.875	1.0	0.0	81.61	-23.39	75.81	79.34	107	47.69	59.58	10.76	0.4041	0.5048	0.9447
10 y25l	0.75	1.0	0.0	75.67	-31.79	68.95	75.93	115	36.46	49.35	9.63	0.3821	0.5171	0.7825
11 y38l	0.625	1.0	0.0	74.76	-38.19	67.38	77.45	120	33.44	47.89	9.63	0.3677	0.5265	0.7593
12 y50l	0.5	1.0	0.0	74.16	-42.96	65.36	79.06	123	31.4	46.46	9.63	0.3564	0.5337	0.7445
13 y63l	0.375	1.0	0.0	73.82	-45.96	65.75	80.23	125	30.2	46.82	9.63	0.3501	0.5382	0.7361
14 y75l	0.25	1.0	0.0	73.64	-47.56	65.45	80.92	126	29.57	46.15	9.63	0.3465	0.5407	0.7317
15 y88l	0.125	1.0	0.0	73.57	-48.25	65.31	81.21	126	29.31	46.03	9.63	0.3449	0.5417	0.7299
16 l00c	0.0	1.0	0.0	73.56	-48.37	65.28	81.26	127	29.26	46.02	9.63	0.3446	0.5419	0.7296
17 l13c	0.0	1.0	0.125	73.59	-48.23	64.59	80.62	127	29.34	46.07	9.88	0.344	0.5402	0.7304
18 l25c	0.0	1.0	0.25	73.69	-47.76	61.55	77.91	128	29.58	46.22	10.98	0.3408	0.5327	0.7329
19 l38c	0.0	1.0	0.375	73.88	-46.69	55.27	72.36	130	30.07	46.52	13.48	0.3369	0.5164	0.7376
20 l50c	0.0	1.0	0.5	74.75	-44.75	63.93	74.25	134	31.01	47.98	18.09	0.3224	0.4895	0.7466
21 l63c	0.0	1.0	0.625	74.86	-41.69	53.04	53.2	142	32.58	48.05	25.71	0.3034	0.4519	0.7619
22 l75c	0.0	1.0	0.75	75.45	-37.41	48.71	41.84	153	34.52	48.99	36.52	0.2876	0.4082	0.7769
23 l88c	0.0	1.0	0.875	76.88	-31.99	3.29	32.17	174	37.99	51.33	52.51	0.2679	0.3619	0.8138
24 c00v	0.0	1.0	1.0	78.17	-26.29	-10.37	28.27	202	41.59	53.5	70.15	0.2517	0.3238	0.8483
25 c13v	0.0	0.875	1.0	70.79	-17.72	-21.63	27.98	231	34.41	41.88	68.38	0.2378	0.2895	0.664
26 c25v	0.0	0.75	1.0	62.11	-6.37	-35.08	35.67	260	27.4	30.54	66.6	0.22	0.2452	0.4842
27 c38v	0.0	0.675	1.0	53.49	6.72	-48.77	49.24	278	21.84	21.5	65.21	0.2012	0.198	0.3408
28 c50v	0.0	0.5	1.0	45.96	19.9	-60.94	64.12	288	17.96	15.24	64.27	0.1843	0.1563	0.2416
29 c63v	0.0	0.375	1.0	40.38	30.97	-70.06	76.61	294	14.64	11.48	63.69	0.1722	0.1264	0.182
30 c75v	0.0	0.25	1.0	36.84	38.77	-75.91	85.24	297	14.39	9.45	63.41	0.165	0.1083	0.1498
31 c88v	0.0	0.125	1.0	35.26	42.38	-78.55	89.26	298	13.88	8.63	63.32	0.1618	0.1005	0.1368
32 v00m	0.0	0.0	1.0	34.88	43.32	-79.19	90.28	299	13.78	8.44	63.31	0.1611	0.0987	0.1338
33 v13m	0.125	0.0	1.0	35.07	43.64	-79.5	90.7	299	13.96	8.54	64.04	0.1613	0.0986	0.1353
34 v25m	0.25	0.0	1.0	35.19	43.87	-78.58	90.01	299	14.08	8.6	63.23	0.1639	0.1001	0.1363
35 v38m	0.375	0.0	1.0	35.85	45.05	-77.3	89.47	300	14.73	8.93	63.06	0.1698	0.103	0.1416
36 v50m	0.5	0.0	1.0	37.13	47.19	-75.13	88.73	302	16.02	9.61	63.09	0.1806	0.1083	0.1523
37 v63m	0.625	0.0	1.0	39.05	50.42	-71.42	87.43	305	18.1	10.69	62.63	0.198	0.1169	0.1694
38 v75m	0.75	0.0	1.0	41.59	54.54	-66.29	85.85	309	21.11	12.24	61.81	0.2218	0.1286	0.1941
39 v88m	0.875	0.0	1.0	46.22	60.94	-61.59	86.65	315	27.11	15.43	65.56	0.2508	0.1428	0.2447
40 m00o	1.0	0.0	1.0	50.6	66.74	-57.35	88.0	319	33.67	18.92	69.47	0.2758	0.155	0.3
41 m13o	1.0	0.0	0.875	47.07	62.23	-41.64	74.89	326	28.35	16.07	46.3	0.3125	0.1772	0.2548
42 m25o	1.0	0.0	0.75	44.41	58.85	-23.93	63.53	338	24.73	14.12	28.61	0.3666	0.2093	0.2239
43 m38o	1.0	0.0	0.675	42.93	56.57	-8.39	57.19	352	22.78	13.11	18.12	0.4217	0.2428	0.2079
44 m50o	1.0	0.0	0.5	41.86	54.92	6.78	55.34	7	21.43	12.41	10.94	0.4785	0.2771	0.1968
45 m63o	1.0	0.0	0.375	41.92	53.91	20.92	57.62	20	20.62	10.99	10.99	0.5058	0.3058	0.1901
46 m75o	1.0	0.0	0.25	40.84	53.34	30.15	61.27	29	20.19	11.76	4.25	0.5576	0.3249	0.1865
47 m88o	1.0	0.0	0.125	40.69	53.06	35.91	64.07	34	20.0	11.67	3.22	0.5733	0.3345	0.185
48 o00y	1.0	0.0	0.0	40.57	52.89	37.36	64.75	35	19.87	11.6	2.97	0.577	0.3369	0.1839
49 o00w	0.0	0.0	0.0	18.01	0.0	0.0	0.0	0	2.4	2.52	2.74	0.3127	0.329	0.04
50 n13w	0.125	0.125	0.125	18.98	-0.2	-0.32	0.39	237	2.6	2.74	3.03	0.31	0.3275	0.0435
51 n25w	0.25	0.25	0.25	22.69	-0.17	-0.98	1.01	260	3.52	3.71	4.22	0.3071	0.3241	0.0588
52 n38w	0.375	0.375	0.375	29.56	-0.15	-1.44	1.46	264	5.74	6.06	6.97	0.306	0.3227	0.0961
53 n50w	0.5	0.5	0.5	38.6	0.5	-1.74	1.75	267	9.9	10.83	12.0	0.3063	0.3226	0.1553
54 n63w	0.625	0.625	0.625	49.16	0.01	-1.91	1.91	270	16.85	17.72	20.3	0.307	0.323	0.281
55 n75w	0.75	0.75	0.75	62.67	-0.16	-1.66	1.68	264	29.6	31.19	35.23	0.3083	0.3248	0.4946
56 n88w	0.875	0.875	0.875	81.28	0.05	-0.03	0.06	324	56.08	58.98	64.26	0.3127	0.3289	0.9352
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	1.4047

$n = 88.59 / (88.59 - 0.26) = 1.003$

TUB-Prüfvorlage KG51; Bunttonkreis und farbmimetrische Daten
Messung von LCD-Projektor und für $L_r = 2,5\%$

input: $olv^* \text{ srgbcolor}$
output: no change compared to input