

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

System:	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	$Y_a/88.59$
TLS70a	00 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
	01 o13y	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
Monitor:	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	17.53	18.1	25.2	46	64.67	60.23	46.68	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
LCD	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
Reflection:	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	29.0	40.38	134	61.7	78.4	51.09	0.3227	0.4101	0.9021
	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	63.64	0.2927	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	0.2861	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	48.32	86.89	0.2867	0.2549	0.556
	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	87.67	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	28.79	4.25	29.1	8	60.78	52.22	51.97	0.3684	0.315	0.598
	46 m75o	1.0	0.0	0.25	77.07	27.96	8.08	29.1	16	60.09	51.65	48.16	0.3758	0.323	0.5944
	47 m88o	1.0	0.0	0.125	76.95	27.37	10.68	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	0.01	0	38.32	43.9	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	52.34	58.05	0.3114	0.3265	0.6023
	54 n63w	0.625	0.625	0.625	81.44	0.76	-1.41	1.61	298	56.64	59.27	66.19	0.311	0.3255	0.682
	55 n75w	0.75	0.75	0.75	85.74	0.99	-1.64	1.93	301	64.55	67.46	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

$$\bar{n} = 88.59 / (88.59 - 1.23) = 1.014$$