Farbmetrische "Adaptierte Daten (b)": Fernseh-Lichtfarben-System TLS00b für Helligkeit L^*=00 von Schwarz und für Lichtart D65

System TLS00b

D65-Reflexion:
Y_N = 0.0
L^*_N = 0.0

Farbe i	r^*_d	g^*_d	b^*_d	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{b,d}$	$Y_{b,d}$	$Z_{b,d}$	$x_{b,d}$	$y_{b,d}$	$Y_{b,d}$/88.59
01,0₀	0.0	0.0	0.0	0.01		0.01	6.36	0.0	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
02,1₀	0.067	0.067	0.067	6.36	6.35	6.37	6.36	0.067	0.67(=0.67+0.0)	0.71(=0.71+0.0)	0.77(=0.77+0.0)	0.3127	0.329	0.0079
03,2₀	0.133	0.133	0.133	12.72	6.36	12.73	6.36	0.133	1.44(=1.44+0.0)	1.52(=1.52+0.0)	1.65(=1.65+0.0)	0.3127	0.329	0.0171
04,3₀	0.2	0.2	0.2	19.08	6.36	19.09	6.36	0.2	2.63(=2.63+0.0)	2.77(=2.76+0.0)	3.01(=3.01+0.0)	0.3127	0.329	0.0312
05,4₀	0.267	0.267	0.267	25.44	6.36	25.45	6.36	0.267	4.33(=4.33+0.0)	4.56(=4.56+0.0)	4.96(=4.96+0.0)	0.3127	0.329	0.0515
06,5₀	0.333	0.333	0.333	31.8	6.36	31.81	6.36	0.333	6.65(=6.65+0.0)	7.0(=7.0+0.0)	7.62(=7.62+0.0)	0.3127	0.329	0.079
07,6₀	0.4	0.4	0.4	38.16	6.36	38.17	6.36	0.4	9.67(=9.67+0.0)	10.18(=10.18+0.0)	11.08(=11.08+0.0)	0.3127	0.329	0.1149
08,7₀	0.467	0.467	0.467	44.52	6.36	44.53	6.36	0.467	13.5(=13.5+0.0)	14.2(=14.2+0.0)	15.46(=15.46+0.0)	0.3127	0.329	0.1603
09,8₀	0.533	0.533	0.533	50.89	6.37	50.89	6.36	0.533	18.22(=18.22+0.0)	19.17(=19.17+0.0)	20.88(=20.88+0.0)	0.3127	0.329	0.2164
10,9₀	0.6	0.6	0.6	57.25	6.36	57.25	6.36	0.6	23.93(=23.93+0.0)	24.98(=24.98+0.0)	27.42(=27.41+0.0)	0.3127	0.329	0.2842
11,A₀	0.667	0.667	0.667	63.61	6.36	63.61	6.36	0.667	30.72(=30.72+0.0)	32.32(=32.32+0.0)	35.19(=35.19+0.0)	0.3127	0.329	0.3649
12,B₀	0.733	0.733	0.733	69.97	6.36	69.97	6.36	0.733	38.69(=38.69+0.0)	40.71(=40.71+0.0)	44.32(=44.32+0.0)	0.3127	0.329	0.4595
13,C₀	0.8	0.8	0.8	76.33	6.36	76.33	6.36	0.8	47.92(=47.92+0.0)	50.42(=50.42+0.0)	54.9(=54.9+0.0)	0.3127	0.329	0.5692
14,D₀	0.867	0.867	0.867	82.69	6.36	82.69	6.36	0.867	58.53(=58.53+0.0)	61.58(=61.58+0.0)	67.05(=67.05+0.0)	0.3127	0.329	0.6951
15,E₀	0.933	0.933	0.933	89.05	6.36	89.05	6.36	0.933	70.59(=70.59+0.0)	74.27(=74.27+0.0)	80.87(=80.86+0.0)	0.3127	0.329	0.8383
16,F₀	1.0	1.0	1.0	95.41	6.36	95.41	6.36	1.0	84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0
17,N₀	0.0	0.0	0.0	0.01		0.01			0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.0(=0.0+0.0)	0.3118	0.3281	0.0
18,W₀	1.0	1.0	1.0	95.41	95.4	95.41	95.4		84.2(=84.2+0.0)	88.59(=88.59+0.0)	96.46(=96.46+0.0)	0.3127	0.329	1.0

Berechnete farbmetrische Daten (b): Fernseh-Lichtfarben-System TLS18b für Helligkeit L^*=18 von Schwarz und für Lichtart D65

D65-Reflexion:
Y_N = 2.52
L^*_N = 18.01

Farbe i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}$/88.59
01,0₀	0.0	0.0	0.0	18.01		18.01	5.16	0.0	2.4(=0.0+2.4)	2.52(=0.0+2.52)	2.74(=0.0+2.74)	0.3127	0.329	0.0285
02,1₀	0.067	0.067	0.067	20.84	2.83	23.17	5.16	0.037	3.05(=0.65+2.4)	3.2(=0.68+2.52)	3.49(=0.74+2.74)	0.3127	0.329	0.0362
03,2₀	0.133	0.133	0.133	23.65	2.81	28.33	5.16	0.073	3.8(=1.4+2.4)	3.99(=1.47+2.52)	4.35(=1.61+2.74)	0.3127	0.329	0.0451
04,3₀	0.2	0.2	0.2	27.32	3.66	33.49	5.16	0.12	4.95(=2.55+2.4)	5.21(=2.69+2.52)	5.67(=2.93+2.74)	0.3127	0.329	0.0588
05,4₀	0.267	0.267	0.267	31.69	4.37	38.65	5.16	0.177	6.6(=4.21+2.4)	6.95(=4.43+2.52)	7.57(=4.82+2.74)	0.3127	0.329	0.0784
06,5₀	0.333	0.333	0.333	36.59	5.27	43.81	5.16	0.24	8.86(=6.46+2.4)	9.32(=6.8+2.52)	10.15(=7.4+2.74)	0.3127	0.329	0.1052
07,6₀	0.4	0.4	0.4	41.86	4.9	48.97	5.16	0.308	11.79(=9.4+2.4)	12.41(=9.89+2.52)	13.51(=10.77+2.74)	0.3127	0.329	0.1401
08,7₀	0.467	0.467	0.467	47.39	5.53	54.13	5.16	0.38	15.51(=13.11+2.4)	16.32(=13.8+2.52)	17.77(=15.02+2.74)	0.3127	0.329	0.1842
09,8₀	0.533	0.533	0.533	53.11	5.72	59.29	5.16	0.453	20.1(=17.7+2.4)	21.15(=18.63+2.52)	23.03(=20.28+2.74)	0.3127	0.329	0.2387
10,9₀	0.6	0.6	0.6	58.96	5.94	64.45	5.16	0.529	25.65(=23.25+2.4)	26.98(=24.46+2.52)	29.38(=26.64+2.74)	0.3127	0.329	0.3046
11,A₀	0.667	0.667	0.667	64.9	6.06	69.61	5.16	0.606	32.24(=29.84+2.52)	33.94(=31.42+2.52)	36.94(=34.19+2.74)	0.3127	0.329	0.3829
12,B₀	0.733	0.733	0.733	70.92	6.02	74.77	5.16	0.684	39.98(=37.59+2.4)	42.07(=39.55+2.52)	45.8(=43.06+2.74)	0.3127	0.329	0.4749
13,C₀	0.8	0.8	0.8	76.99	6.07	79.93	5.16	0.762	48.96(=46.56+2.4)	51.51(=48.99+2.52)	56.09(=53.34+2.74)	0.3127	0.329	0.5814
14,D₀	0.867	0.867	0.867	83.1	6.11	85.09	5.16	0.841	59.26(=56.86+2.4)	62.35(=59.83+2.52)	67.89(=65.14+2.74)	0.3127	0.329	0.7038
15,E₀	0.933	0.933	0.933	89.24	6.14	90.25	5.16	0.92	70.97(=68.57+2.4)	74.68(=72.16+2.52)	81.31(=78.57+2.74)	0.3127	0.329	0.8429
16,F₀	1.0	1.0	1.0	95.41	6.17	95.41	5.16	1.0	84.2(=81.8+2.4)	88.59(=86.07+2.52)	96.46(=93.72+2.74)	0.3127	0.329	1.0
17,N₀	0.0	0.0	0.0	18.01		18.01			2.4(=0.0+2.4)	2.52(=0.0+2.52)	2.74(=0.0+2.74)	0.3127	0.329	0.0285
18,W₀	1.0	1.0	1.0	95.41	77.4	95.41	77.4		84.2(=81.8+2.4)	88.59(=86.07+2.52)	96.46(=93.72+2.74)	0.3127	0.329	1.0

Berechnete farbmetrische Daten (b): Fernseh-Lichtfarben-System TLS70b für Helligkeit L^*=70 von Schwarz und für Lichtart D65

D65-Reflexion:
Y_N = 40.32
L^*_N = 69.7

Farbe i	$r^*_{a,d}$	$g^*_{a,d}$	$b^*_{a,d}$	$L^*_{re,d}$	$\Delta L^*_{re,d}$	$L^*_{it,d}$	$\Delta L^*_{it,d}$	w_d	$X_{a,d}$	$Y_{a,d}$	$Z_{a,d}$	$x_{a,d}$	$y_{a,d}$	$Y_{a,d}$/88.59
01,0₀	0.0	0.0	0.0	69.7		69.7		0.0	38.32(=0.0+38.32)	40.32(=0.0+40.32)	43.9(=0.0+43.9)	0.3127	0.329	0.4551
02,1₀	0.067	0.067	0.067	69.97	0.27	71.41	1.71	0.011	38.68(=0.36+38.32)	40.7(=0.38+40.32)	44.32(=0.42+43.9)	0.3127	0.329	0.4594
03,2₀	0.133	0.133	0.133	70.28	0.31	73.13	1.71	0.023	39.11(=0.79+38.32)	41.15(=0.83+40.32)	44.8(=0.9+43.9)	0.3127	0.329	0.4644
04,3₀	0.2	0.2	0.2	70.75	0.47	74.84	1.71	0.041	39.71(=1.43+38.32)	41.83(=1.51+40.32)	45.54(=1.64+43.9)	0.3127	0.329	0.4721
05,4₀	0.267	0.267	0.267	71.42	0.67	76.55	1.71	0.067	40.68(=2.36+38.32)	42.8(=2.48+40.32)	46.61(=2.7+43.9)	0.3127	0.329	0.4832
06,5₀	0.333	0.333	0.333	72.32	0.9	78.27	1.71	0.102	41.94(=3.62+38.32)	44.13(=3.81+40.32)	48.05(=4.15+43.9)	0.3127	0.329	0.4981
07,6₀	0.4	0.4	0.4	73.46	1.4	79.98	1.71	0.146	43.59(=5.27+38.32)	45.87(=5.55+40.32)	49.94(=6.04+43.9)	0.3127	0.329	0.5177
08,7₀	0.467	0.467	0.467	74.86	1.4	81.7	1.71	0.201	45.67(=7.35+38.32)	48.06(=7.74+40.32)	52.33(=8.43+43.9)	0.3127	0.329	0.5425
09,8₀	0.533	0.533	0.533	76.54	1.68	83.41	1.71	0.266	48.25(=9.93+38.32)	50.77(=10.45+40.32)	55.28(=11.38+43.9)	0.3127	0.329	0.573
10,9₀	0.6	0.6	0.6	78.49	1.95	85.12	1.71	0.342	51.36(=13.04+38.32)	54.04(=13.72+40.32)	58.84(=14.94+43.9)	0.3127	0.329	0.61
11,A₀	0.667	0.667	0.667	80.7	2.48	86.84	1.71	0.428	55.06(=16.74+38.32)	57.93(=17.61+40.32)	63.08(=19.18+43.9)	0.3127	0.329	0.6539
12,B₀	0.733	0.733	0.733	83.18	2.78	88.55	1.71	0.524	59.4(=21.08+38.32)	62.5(=22.18+40.32)	68.05(=24.15+43.9)	0.3127	0.329	0.7055
13,C₀	0.8	0.8	0.8	85.9	2.73	90.27	1.71	0.63	64.43(=26.11+38.32)	67.8(=27.48+40.32)	73.82(=29.92+43.9)	0.3127	0.329	0.7653
14,D₀	0.867	0.867	0.867	88.86	2.96	91.98	1.71	0.745	70.21(=31.89+38.32)	73.87(=33.55+40.32)	80.43(=36.53+43.9)	0.3127	0.329	0.8339
15,E₀	0.933	0.933	0.933	92.04	3.17	93.7	1.71	0.869	76.78(=38.46+38.32)	80.79(=40.47+40.32)	87.96(=44.06+43.9)	0.3127	0.329	0.9119
16,F₀	1.0	1.0	1.0	95.41	3.37	95.41	1.71	1.0	84.2(=45.88+38.32)	88.59(=48.27+40.32)	96.46(=52.56+43.9)	0.3127	0.329	1.0
17,N₀	0.0	0.0	0.0	69.7		69.7			38.32(=0.0+38.32)	40.32(=0.0+40.32)	43.9(=0.0+43.9)	0.3127	0.329	0.4551
18,W₀	1.0	1.0	1.0	95.41	25.71	95.41	25.71		84.2(=45.88+38.32)	88.59(=48.27+40.32)	96.46(=52.56+43.9)	0.3127	0.329	1.0

Prüfvorlage CGI9; 16 Graustufen und NW_d für TLS00, TLS00a & TLS00b
Berechnung CIE-Farbdaten für sRGB-Display für 3 Reflexionen

Eingabe: *rgb*
Ausgabe: −>*rgb*$_{dd}$