

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

System TLS00b	Farbe i	r_{*d}^*	g_{*d}^*	b_{*d}^*	L_{*d}^*	a_{*d}^*	b_{*d}^*	C_{*abd}^*	h_{abd}	X_{ad}	Y_{ad}	Z_{ad}	x_{ad}	y_{ad}	$Y_{88.59}$
D65-Reflexion:	01_{D_0}	0.0	0.0	0.0	0.01	0.0	0.0	0.01	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_{D_1}	0.067	0.067	0.067	6.36	0.0	0.0	0.01	0	0.67(-0.67+0.0)	0.7(-0.7+0.0)	0.77(-0.77+0.0)	0.3127	0.329	0.0079
	03_{D_2}	0.133	0.133	0.133	12.72	0.0	0.0	0.01	0	1.44(-1.44+0.0)	1.52(-1.52+0.0)	1.65(-1.65+0.0)	0.3127	0.329	0.0171
$Y_N = 0.0$	04_{D_3}	0.2	0.2	0.2	19.08	0.0	0.0	0.01	0	2.63(-2.63+0.0)	2.77(-2.76+0.0)	3.01(-3.01+0.0)	0.3127	0.329	0.0312
$L^*_N = 0.0$	05_{D_4}	0.267	0.267	0.267	25.44	0.0	0.0	0.01	0	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_{D_5}	0.333	0.333	0.333	31.8	0.0	0.0	0.01	0	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_{D_6}	0.4	0.4	0.4	38.16	0.0	0.0	0.01	0	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_{D_7}	0.467	0.467	0.467	44.52	0.0	0.0	0.01	0	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_{D_8}	0.533	0.533	0.533	50.89	0.0	0.0	0.01	0	18.1(-18.1+0.0)	19.1(-19.17+0.0)	20.88(-20.88+0.0)	0.3127	0.329	0.2164
	10_{D_9}	0.6	0.6	0.6	57.25	0.0	0.0	0.01	0	23.95(-23.93+0.0)	25.18(-25.18+0.0)	27.42(-27.41+0.0)	0.3127	0.329	0.2842
	$11_{D_{10}}$	0.667	0.667	0.667	63.61	0.0	0.0	0.01	0	30.72(-30.72+0.0)	32.32(-32.32+0.0)	35.19(-35.19+0.0)	0.3127	0.329	0.3649
	$12_{D_{11}}$	0.733	0.733	0.733	69.97	0.0	0.0	0.01	0	38.69(-38.69+0.0)	40.71(-40.71+0.0)	44.32(-44.32+0.0)	0.3127	0.329	0.4595
	$13_{D_{12}}$	0.8	0.8	0.8	76.33	0.0	0.0	0.01	0	47.92(-47.92+0.0)	50.43(-50.42+0.0)	54.9(-54.9+0.0)	0.3127	0.329	0.5692
	$14_{D_{13}}$	0.867	0.867	0.867	82.69	0.0	0.0	0.01	0	58.53(-58.53+0.0)	61.58(-61.58+0.0)	67.65(-67.05+0.0)	0.3127	0.329	0.6951
	$15_{D_{14}}$	0.933	0.933	0.933	89.05	0.0	0.0	0.01	0	70.59(-70.59+0.0)	74.27(-74.27+0.0)	80.87(-80.86+0.0)	0.3127	0.329	0.8383
	$16_{D_{15}}$	1.0	1.0	1.0	95.41	0.0	0.0	0.01	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_{N_0}	0.0	0.0	0.0	0.01	0.0	0.0	0.01	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
	18_{W_0}	1.0	1.0	1.0	95.41	0.0	0.0	0.01	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

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

	Farbe	r_{*d}^*	g_{*d}^*	b_{*d}^*	L_{*d}^*	a_{*d}^*	b_{*d}^*	C_{*abd}^*	h_{abd}	X_{ad}	Y_{ad}	Z_{ad}	x_{ad}	y_{ad}	$Y_{88.59}$
D65-Reflexion: $Y_N = 2.52$ $L^*_N = 18.01$	01_{D_0}	0.0	0.0	0.0	18.01	0.0	0.0	0.0	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_{D_1}	0.067	0.067	0.067	20.84	0.0	0.0	0.0	0	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_{D_2}	0.133	0.133	0.133	23.65	0.0	0.0	0.0	0	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_{D_3}	0.2	0.2	0.2	27.32	0.0	0.0	0.0	0	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_{D_4}	0.267	0.267	0.267	31.69	0.0	0.0	0.0	3	6.6(-2.41+2.4)	6.95(-4.43+2.52)	7.57(-4.82+2.74)	0.3127	0.329	0.0784
	06_{D_5}	0.333	0.333	0.333	36.59	0.0	0.0	0.0	0	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_{D_6}	0.4	0.4	0.4	41.86	0.0	0.0	0.0	0	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_{D_7}	0.467	0.467	0.467	47.39	0.0	0.0	353	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_{D_8}	0.533	0.533	0.533	53.11	0.0	0.0	0.0	0	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_{D_9}	0.6	0.6	0.6	58.96	0.0	0.0	0.0	0	25.65(-23.25+2.4)	26.98(-24.46+2.52)	29.38(-26.64+2.74)	0.3127	0.329	0.3046
	$11_{D_{10}}$	0.667	0.667	0.667	64.9	0.0	0.0	0.0	0	32.24(-29.85+2.4)	33.92(-31.4+2.52)	36.94(-34.19+2.74)	0.3127	0.329	0.3829
	$12_{D_{11}}$	0.733	0.733	0.733	70.92	0.0	0.0	0.0	0	39.98(-37.59+2.4)	42.07(-39.55+2.52)	45.8(-43.06+2.74)	0.3127	0.329	0.4749
	$13_{D_{12}}$	0.8	0.8	0.8	76.99	0.0	0.0	0.0	0	48.96(-46.56+2.4)	51.51(-48.99+2.52)	56.09(-53.34+2.74)	0.3127	0.329	0.5814
	$14_{D_{13}}$	0.867	0.867	0.867	83.1	0.0	0.0	0.0	0	59.26(-56.86+2.4)	62.35(-59.83+2.52)	67.89(-65.14+2.74)	0.3127	0.329	0.7038
	$15_{D_{14}}$	0.933	0.933	0.933	89.24	0.0	0.0	0.0	0	70.97(-68.58+2.4)	74.68(-72.16+2.52)	81.31(-78.57+2.74)	0.3127	0.329	0.8429
$16_{D_{15}}$	1.0	1.0	1.0	95.41	0.0	0.0	0.0	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_{N_0}	0.0	0.0	0.0	18.01	0.0	0.0	0.0	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	
18_{W_0}	1.0	1.0	1.0	95.41	0.0	0.0	0.0	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	

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

D65-Reflexion:	Farbe i	r_{*d}^*	g_{*d}^*	b_{*d}^*	L_{*d}^*	a_{*d}^*	b_{*d}^*	C_{*abd}^*	h_{abd}	X_{ad}	Y_{ad}	Z_{ad}	x_{ad}	y_{ad}	$Y_{88.59}$
$Y_N = 40.32$	01_{D_0}	0.0	0.0	0.0	69.7	0.0	0.0	0.0	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
$L^*_N = 69.7$	02_{D_1}	0.067	0.067	0.067	69.97	0.0	0.0	0.0	0	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_{D_2}	0.133	0.133	0.133	70.28	0.0	0.0	0.0	0	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_{D_3}	0.2	0.2	0.2	70.75	0.0	0.0	0.0	0	39.75(-1.43+38.32)	41.83(-1.51+40.32)	45.54(-1.64+43.9)	0.3127	0.329	0.4721
	05_{D_4}	0.267	0.267	0.267	71.42	0.0	0.0	0.0	0	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_{D_5}	0.333	0.333	0.333	72.32	0.0	0.0	0.0	0	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_{D_6}	0.4	0.4	0.4	73.46	0.0	0.0	0.0	0	42.9(-5.09+38.32)	45.67(-5.55+40.32)	49.94(-6.04+43.9)	0.3127	0.329	0.5177
	08_{D_7}	0.467	0.467	0.467	74.86	0.0	0.0	0.0	0	43.67(-6.35+38.32)	46.06(-7.74+40.32)	52.33(-8.43+43.9)	0.3127	0.329	0.5425
	09_{D_8}	0.533	0.533	0.533	76.54	0.0	0.0	0.0	0	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_{D_9}	0.6	0.6	0.6	78.49	0.0	0.0	0.0	0	51.36(-13.04+38.32)	54.04(-13.72+40.32)	58.84(-14.94+43.9)	0.3127	0.329	0.61
	$11_{D_{10}}$	0.667	0.667	0.667	80.7	0.0	0.0	0.0	0	55.06(-16.74+38.32)	57.93(-17.61+40.32)	63.08(-19.18+43.9)	0.3127	0.329	0.6539
	$12_{D_{11}}$	0.733	0.733	0.733	83.18	0.0	0.0	0.0	0	59.4(-21.08+38.32)	62.5(-22.18+40.32)	68.05(-24.15+43.9)	0.3127	0.329	0.7055
	$13_{D_{12}}$	0.8	0.8	0.8	85.9	0.0	0.0	0.0	0	64.43(-26.11+38.32)	67.8(-27.48+40.32)	73.82(-29.92+43.9)	0.3127	0.329	0.7653
	$14_{D_{13}}$	0.867	0.867	0.867	88.86	0.0	0.0	0.0	0	70.78(-31.89+38.32)	73.87(-33.55+40.32)	80.43(-36.53+43.9)	0.3127	0.329	0.8339
	$15_{D_{14}}$	0.933	0.933	0.933	92.04	0.0	0.0	0.0	0	76.78(-38.46+38.32)	80.79(-40.47+40.32)	87.96(-44.06+43.9)	0.3127	0.329	0.9119
	$16_{D_{15}}$	1.0	1.0	1.0	95.41	0.0	0.0	0.0	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_{N_0}	0.0	0.0	0.0	69.7	0.0	0.0	0.0	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
	18_{W_0}	1.0	1.0	1.0	95.41	0.0	0.0	0.0	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

CGI50-7N00

Prüfvorlage CGI5; 16 Graustufen und NW_d für TLS00, TLS00a & TLS00b
Berechnung CIE-Farbdaten für sRGB-Display für 3 Reflexionen

Eingabe: *rgb*
Ausgabe: $\rightarrow rgbd$

TUB-Registrierung: 20211101-CGI5/CGISL0N1.TXT /PS
Anwendung für Messung oder Beurteilung von Display-Ausgabe

TUB-Material: Code=na4ta