

Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 35/360 = 0.097$

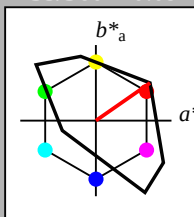
lab^*ich und lab^*nch

D65: Buntton O

LCH*Ma: 53 87 35

olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



$u^*_{rel} = 118$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	1.0	1.0	1.0	(1.0)
olv8*	0.0	0.0	0.0	(0.0)
olv9*	1.0	1.0	1.0	(1.0)
olv10*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	59.41	0.0	0.0
LAB*Lab	99.99	0.01	0.0
LAB*Lab	99.99	0.01	0.0
LAB*Lab	99.99	0.01	0.0
LAB*Lab	99.99	0.01	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

standard and adapted CIELAB

LAB*Lab	76.07	0.0	0.0
LAB*Lab	76.07	0.0	0.0
LAB*Lab	76.07	0.0	0.0
LAB*Lab	76.07	0.0	0.0
LAB*Lab	76.07	0.0	0.0

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0

standard and adapted CIELAB

LAB*Lab	56.72	0.0	0.0
LAB*Lab	56.72	0.0	0.0
LAB*Lab	56.72	0.0	0.0
LAB*Lab	56.72	0.0	0.0
LAB*Lab	56.72	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0
lab*lab	0.5	0.0	0.0

TLS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.5	(1.0)
olv4*	0.0	0.5	0.5	(0.0)
olv5*	1.0	0.5	0.5	(1.0)
olv6*	0.0	0.5	0.5	(0.0)
olv7*	1.0	0.5	0.5	(1.0)
olv8*	0.0	0.5	0.5	(0.0)
olv9*	1.0	0.5	0.5	(1.0)
olv10*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*Lab	74.08	35.81	24.94
LAB*Lab	74.08	35.81	24.94
LAB*Lab	74.08	35.81	24.94
LAB*Lab	74.08	35.81	24.94
LAB*Lab	74.08	35.81	24.94

relative CIELAB lab*

lab*lab	0.724	0.41	0.286
lab*lab	0.724	0.41	0.286
lab*lab	0.724	0.41	0.286
lab*lab	0.724	0.41	0.286
lab*lab	0.724	0.41	0.286

relative Natural Colour (NC)

lab*lab	0.724	0.41	0.286
lab*lab	0.724	0.41	0.286
lab*lab	0.724	0.41	0.286
lab*lab	0.724	0.41	0.286
lab*lab	0.724	0.41	0.286

standard and adapted CIELAB

LAB*Lab	63.42	33.72	37.41
LAB*Lab	63.42	33.72	37.41
LAB*Lab	63.42	33.72	37.41
LAB*Lab	63.42	33.72	37.41
LAB*Lab	63.42	33.72	37.41

relative CIELAB lab*

lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164

relative Natural Colour (NC)

lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164

standard and adapted CIELAB

LAB*Lab	52.76	71.62	49.87
LAB*Lab	52.76	71.62	49.87
LAB*Lab	52.76	71.62	49.87
LAB*Lab	52.76	71.62	49.87
LAB*Lab	52.76	71.62	49.87

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.5	(1.0)
olv4*	0.0	0.5	0.5	(0.0)
olv5*	1.0	0.5	0.5	(1.0)
olv6*	0.0	0.5	0.5	(0.0)
olv7*	1.0	0.5	0.5	(1.0)
olv8*	0.0	0.5	0.5	(0.0)
olv9*	1.0	0.5	0.5	(1.0)
olv10*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*Lab	63.42	33.72	37.41
LAB*Lab	63.42	33.72	37.41
LAB*Lab	63.42	33.72	37.41
LAB*Lab	63.42	33.72	37.41
LAB*Lab	63.42	33.72	37.41

relative CIELAB lab*

lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164

relative Natural Colour (NC)

lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164

standard and adapted CIELAB

LAB*Lab	52.76	71.62	49.87
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LAB*Lab	52.76	71.62	49.87
LAB*Lab	52.76	71.62	49.87
LAB*Lab	52.76	71.62	49.87

relative CIELAB lab*

lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164

relative Natural Colour (NC)

lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164
lab*lab	0.587	0.32	0.164

Ausgabe: Farbmetrisches Offset-Reflektiv-System ORS18

für Buntton $h^* = lab^*h = 38/360 = 0.105$

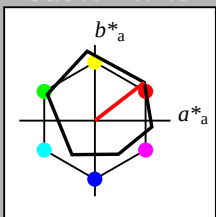
lab^*tch und lab^*nch

D65: Buntton O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



$u^*_{rel} = 93$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv4*	0.0	1.0	1.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv6*	0.0	1.0	1.0	(0.0)
olv7*	1.0	1.0	1.0	(1.0)
olv8*	0.0	1.0	1.0	(0.0)
olv9*	1.0	1.0	1.0	(1.0)
olv10*	0.0	1.0	1.0	(0.0)

standard and adapted CIELAB

LAB*Lab	95.41	-0.98	4.75
LAB*Lab	95.41	-0.98	4.75
LAB*Lab	95.41	-0.98	4.75
LAB*Lab	95.41	-0.98	4.75
LAB*Lab	95.41	-0.98	4.75

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

standard and adapted CIELAB

LAB*Lab	76.06	-0.61	3.44
LAB*Lab	76.06	-0.61	3.44
LAB*Lab	76.06	-0.61	3.44
LAB*Lab	76.06	-0.61	3.44
LAB*Lab	76.06	-0.61	3.44

relative CIELAB lab*

lab*lab	0.847	0.198	0.153
lab*lab	0.847	0.198	0.153
lab*lab	0.847	0.198	0.153
lab*lab	0.847	0.198	0.153
lab*lab	0.847	0.198	0.153

relative Natural Colour (NC)

lab*lab	0.847	0.198	0.153
lab*lab	0.847	0.198	0.153
lab*lab	0.847	0.198	0.153
lab*lab	0.847	0.198	0.153
lab*lab	0.847	0.198	0.153

standard and adapted CIELAB

LAB*Lab	64.19	16.35	12.63
LAB*Lab	64.19	16.35	12.63
LAB*Lab	64.19	16.35	12.63
LAB*Lab	64.19	16.35	12.63
LAB*Lab	64.19	16.35	12.63

relative CIELAB lab*

lab*lab	0.525	0.25	0.19
lab*lab	0.525	0.25	0.19
lab*lab	0.525	0.25	0.19
lab*lab	0.525	0.25	0.19
lab*lab	0.525	0.25	0.19

relative Natural Colour (NC)

lab*lab	0.525	0.25	0.19
lab*lab	0.525	0.25	0.19
lab*lab	0.525	0.25	0.19
lab*lab	0.525	0.25	0.19
lab*lab	0.525	0.25	0.19

ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)				
olv3*	1.0	0.5	0.5	(1.0)
cmyn3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	0.5	0.5	1.0
cmyn4*	0.0	0.5	0.5	0.0
standard and adapted CIELAB				
LAB*LAB	71.67	32.15	28.41	
LAB*LABa	71.67	32.69	25.25	
LAB*TCRa	75.0	41.31	37.69	

Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 137/360 = 0.38$

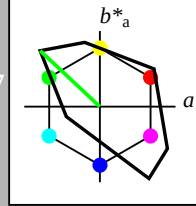
lab^*ich und lab^*nch

D65: Buntton L

LCH*Ma: 84 108 137

olv*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)

olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*LABb 76.07 0.0 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0

standard and adapted CIELAB

LAB*LAB 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 56.72 0.0 0.0

relative CIELAB lab*

lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0

standard and adapted CIELAB

LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 37.37 0.0 0.0

relative CIELAB lab*

lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 18.03 0.0 0.0

TLS18; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)

olv3* 0.75 0.5 0.5 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.75 0.5 0.5 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 89.7 -39.48 36.96
LAB*LABa 89.7 -39.48 36.96
LAB*LABb 89.7 -39.48 36.96

relative CIELAB lab*

lab*lab 0.926 -0.364 0.342
lab*lab 0.926 -0.364 0.342
lab*lab 0.926 -0.364 0.342

relative Natural Colour (NC)

lab*lab 0.926 -0.364 0.342
lab*lab 0.926 -0.364 0.342
lab*lab 0.926 -0.364 0.342

standard and adapted CIELAB

LAB*LAB 70.36 -39.48 36.97
LAB*LABa 70.36 -39.48 36.97
LAB*LABb 70.36 -39.48 36.97

relative CIELAB lab*

lab*lab 0.889 -0.546 0.512
lab*lab 0.889 -0.546 0.512
lab*lab 0.889 -0.546 0.512

relative Natural Colour (NC)

lab*lab 0.889 -0.546 0.512
lab*lab 0.889 -0.546 0.512
lab*lab 0.889 -0.546 0.512

standard and adapted CIELAB

LAB*LAB 51.01 -39.48 36.97
LAB*LABa 51.01 -39.48 36.97
LAB*LABb 51.01 -39.48 36.97

relative CIELAB lab*

lab*lab 0.639 -0.546 0.512
lab*lab 0.639 -0.546 0.512
lab*lab 0.639 -0.546 0.512

relative Natural Colour (NC)

lab*lab 0.639 -0.546 0.512
lab*lab 0.639 -0.546 0.512
lab*lab 0.639 -0.546 0.512

standard and adapted CIELAB

LAB*LAB 30.57 1.41 -46.46
LAB*LABa 30.57 1.41 -46.46
LAB*LABb 30.57 1.41 -46.46

Ausgabe: Farbmetrisches Offset-Reflektiv-System ORS18

für Buntton $h^* = lab^*h = 151/360 = 0.419$

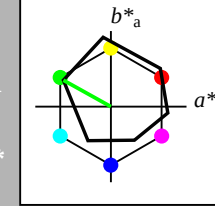
lab^*tch und lab^*nch

D65: Buntton L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)

olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 -0.98 4.75
LAB*LABa 95.41 -0.98 4.75
LAB*LABb 95.41 -0.98 4.75

relative CIELAB lab*

lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 -0.61 3.44
LAB*LABb 76.06 -0.61 3.44

relative CIELAB lab*

lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0

standard and adapted CIELAB

LAB*LAB 56.71 0.24 2.14
LAB*LABa 56.71 0.24 2.14
LAB*LABb 56.71 0.24 2.14

relative CIELAB lab*

lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0

standard and adapted CIELAB

LAB*LAB 37.36 0.13 1.83
LAB*LABa 37.36 0.13 1.83
LAB*LABb 37.36 0.13 1.83

relative CIELAB lab*

lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0

ORS18; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)

olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (1.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (1.0)

standard and adapted CIELAB

LAB*LAB 73.15 -31.4 17.48
LAB*LABa 73.15 -31.4 17.48
LAB*LABb 73.15 -31.4 17.48

relative CIELAB lab*

lab*lab 0.712 -0.436 0.243
lab*lab 0.712 -0.436 0.243
lab*lab 0.712 -0.436 0.243

relative Natural Colour (NC)

lab*lab 0.712 -0.436 0.243
lab*lab 0.712 -0.436 0.243
lab*lab 0.712 -0.436 0.243

standard and adapted CIELAB

LAB*LAB 53.81 -31.6 19.43
LAB*LABa 53.81 -31.6 19.43
LAB*LABb 53.81 -31.6 19.43

relative CIELAB lab*

lab*lab 0.569 -0.654 0.365
lab*lab 0.569 -0.654 0.365
lab*lab 0.569 -0.654 0.365

relative Natural Colour (NC)

lab*lab 0.569 -0.654 0.365
lab*lab 0.569 -0.654 0.365
lab*lab 0.569 -0.654 0.365

standard and adapted CIELAB

LAB*LAB 42.68 -47.09 27.41
LAB*LABa 42.68 -47.09 27.41
LAB*LABb 42.68 -47.09 27.41

relative CIELAB lab*

lab*lab 0.462 -0.478 0.144
lab*lab 0.462 -0.478 0.144
lab*lab 0.462 -0.478 0.144

relative Natural Colour (NC)

lab*lab 0.462 -0.478 0.144
lab*lab 0.462 -0.478 0.144
lab*lab 0.462 -0.478 0.144

standard and adapted CIELAB

LAB*LAB 34.46 -15.58 8.82
LAB*LABa 34.46 -15.58 8.82
LAB*LABb 34.46 -15.58 8.82

NG560-7, 5 stufige Reihen für konstanten CIELAB Buntton 137/360 = 0.38 (links)

5 stufige Reihen für konstanten CIELAB Buntton 151/360 = 0.419 (rechts)

BAM-Prüfvorlage NG56; Farbmetrik-Systeme TLS18 & ORS18 input: $olv^* setrgbcolor$

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne

output: $olv^* setrgbcolor / w^* setgray$

relative Buntheit c^*

relative Buntheit c^*

relative Buntheit c^*

relative Buntheit c^*

relative Buntheit c^*

relative Buntheit c^*

Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 328/360 = 0.911$

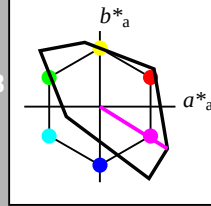
lab^*ich und lab^*nch

D65: Buntton M

LCH*Ma: 59 105 328

olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)

olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 1.0 0.0 0.0
lab*ice 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.75 0.0 0.0
lab*ice 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.5 0.0 0.0
lab*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.5 0.0 0.0
lab*ice 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.25 0.0 0.0
lab*ice 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

TLS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)

olv3* 1.0 0.5 1.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olv4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 86.31 22.32 -13.9
LAB*LABa 86.31 22.32 -13.9
LAB*LABb 97.5 26.31 328.06

relative CIELAB lab*

lab*lab 0.882 0.212 -0.131
lab*ich 0.875 0.25 0.911
lab*nch 0.0 0.25 0.911

relative Natural Colour (NC)

lab*trj 0.882 0.175 -0.177
lab*ice 0.875 0.25 0.874
lab*nce 0.0 0.25 0.874

standard and adapted CIELAB

LAB*LAB 66.96 22.33 -13.91
LAB*LABa 66.96 22.33 -13.91
LAB*LABb 62.5 26.32 328.06

relative CIELAB lab*

lab*lab 0.632 0.212 -0.131
lab*ich 0.625 0.25 0.911
lab*nch 0.0 0.25 0.911

relative Natural Colour (NC)

lab*trj 0.632 0.175 -0.177
lab*ice 0.625 0.25 0.874
lab*nce 0.0 0.25 0.874

standard and adapted CIELAB

LAB*LAB 47.61 22.33 -13.91
LAB*LABa 47.61 22.33 -13.91
LAB*LABb 37.5 26.32 328.06

relative CIELAB lab*

lab*lab 0.382 0.212 -0.131
lab*ich 0.375 0.25 0.911
lab*nch 0.0 0.25 0.911

relative Natural Colour (NC)

lab*trj 0.382 0.175 -0.177
lab*ice 0.375 0.25 0.874
lab*nce 0.0 0.25 0.874

standard and adapted CIELAB

LAB*LAB 28.26 22.32 -13.9
LAB*LABa 28.26 22.32 -13.9
LAB*LABb 12.5 26.31 328.06

relative CIELAB lab*

lab*lab 0.132 0.212 -0.131
lab*ich 0.125 0.25 0.911
lab*nch 0.0 0.25 0.911

relative Natural Colour (NC)

lab*trj 0.132 0.175 -0.177
lab*ice 0.125 0.25 0.874
lab*nce 0.0 0.25 0.874

standard and adapted CIELAB

LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Natural Colour (NC)

lab*trj 0.0 0.0 0.0
lab*ice 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 25/360 = 0.071$

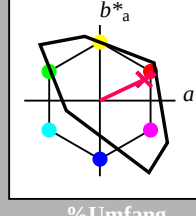
lab^*ich und lab^*nch

D65: Buntton R

LCH*Ma: 54 82 25

olv*Ma: 1.0 0.0 0.14

Dreiecks-Helligkeit t^*



TLS18; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)	
olv3* 1.0 1.0 1.0 (1.0)	
olv4* 0.0 0.0 0.0 (0.0)	
olv5* 0.0 0.0 0.0 (0.0)	
olv6* 0.0 0.0 0.0 (0.0)	
standard and adapted CIELAB	
LAB*LAB 95.41 0.0 0.0	
LAB*LABa 95.41 0.0 0.0	
LAB*LABb 95.41 0.0 0.0	
LAB*LABc 95.41 0.0 0.0	
relative CIELAB lab*	
lab*lab 1.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
relative Natural Colour (NC)	
lab*lab 1.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	

relative Inform. Technology (IT)	
olv3* 1.0 0.75 0.785 (1.0)	
olv4* 0.0 0.25 0.215 (0.0)	
olv5* 0.0 0.75 0.785 (1.0)	
olv6* 0.0 0.25 0.215 (0.0)	
standard and adapted CIELAB	
LAB*LAB 84.96 18.51 8.82	
LAB*LABa 84.96 18.51 8.82	
LAB*LABb 84.96 18.51 8.82	
LAB*LABc 84.96 18.51 8.82	
relative CIELAB lab*	
lab*lab 0.865 0.226 0.107	
lab*lab 0.875 0.25 0.071	
lab*lab 0.875 0.25 0.071	
lab*lab 0.875 0.25 0.071	
relative Natural Colour (NC)	
lab*lab 0.865 0.226 0.107	
lab*lab 0.875 0.25 0.071	
lab*lab 0.875 0.25 0.071	
lab*lab 0.875 0.25 0.071	

relative Inform. Technology (IT)	
olv3* 1.0 0.5 0.569 (1.0)	
olv4* 0.0 0.5 0.569 (1.0)	
olv5* 0.0 0.5 0.569 (1.0)	
olv6* 0.0 0.5 0.569 (1.0)	
standard and adapted CIELAB	
LAB*LAB 74.51 37.03 17.64	
LAB*LABa 74.51 37.03 17.64	
LAB*LABb 74.51 37.03 17.64	
LAB*LABc 74.51 37.03 17.64	
relative CIELAB lab*	
lab*lab 0.73 0.451 0.215	
lab*lab 0.73 0.451 0.215	
lab*lab 0.73 0.451 0.215	
lab*lab 0.73 0.451 0.215	
relative Natural Colour (NC)	
lab*lab 0.73 0.451 0.215	
lab*lab 0.73 0.451 0.215	
lab*lab 0.73 0.451 0.215	
lab*lab 0.73 0.451 0.215	

relative Inform. Technology (IT)	
olv3* 1.0 0.5 0.569 (1.0)	
olv4* 0.0 0.5 0.569 (1.0)	
olv5* 0.0 0.5 0.569 (1.0)	
olv6* 0.0 0.5 0.569 (1.0)	
standard and adapted CIELAB	
LAB*LAB 64.07 55.55 26.47	
LAB*LABa 64.07 55.55 26.47	
LAB*LABb 64.07 55.55 26.47	
LAB*LABc 64.07 55.55 26.47	
relative CIELAB lab*	
lab*lab 0.592 0.677 0.323	
lab*lab 0.625 0.75 0.071	
lab*lab 0.625 0.75 0.071	
lab*lab 0.625 0.75 0.071	
relative Natural Colour (NC)	
lab*lab 0.592 0.677 0.323	
lab*lab 0.625 0.75 0.071	
lab*lab 0.625 0.75 0.071	
lab*lab 0.625 0.75 0.071	

relative Inform. Technology (IT)	
olv3* 1.0 0.5 0.569 (1.0)	
olv4* 0.0 0.5 0.569 (1.0)	
olv5* 0.0 0.5 0.569 (1.0)	
olv6* 0.0 0.5 0.569 (1.0)	
standard and adapted CIELAB	
LAB*LAB 53.62 74.06 35.3	
LAB*LABa 53.62 74.06 35.3	
LAB*LABb 53.62 74.06 35.3	
LAB*LABc 53.62 74.06 35.3	
relative CIELAB lab*	
lab*lab 0.435 0.677 0.323	
lab*lab 0.435 0.677 0.323	
lab*lab 0.435 0.677 0.323	
lab*lab 0.435 0.677 0.323	
relative Natural Colour (NC)	
lab*lab 0.435 0.677 0.323	
lab*lab 0.435 0.677 0.323	
lab*lab 0.435 0.677 0.323	
lab*lab 0.435 0.677 0.323	

relative Inform. Technology (IT)	
olv3* 1.0 0.5 0.569 (1.0)	
olv4* 0.0 0.5 0.569 (1.0)	
olv5* 0.0 0.5 0.569 (1.0)	
olv6* 0.0 0.5 0.569 (1.0)	
standard and adapted CIELAB	
LAB*LAB 56.71 2.04 21.4	
LAB*LABa 56.71 2.04 21.4	
LAB*LABb 56.71 2.04 21.4	
LAB*LABc 56.71 2.04 21.4	
relative CIELAB lab*	
lab*lab 0.5 0.0 0.0	
lab*lab 0.5 0.0 0.0	
lab*lab 0.5 0.0 0.0	
lab*lab 0.5 0.0 0.0	
relative Natural Colour (NC)	
lab*lab 0.5 0.0 0.0	
lab*lab 0.5 0.0 0.0	
lab*lab 0.5 0.0 0.0	
lab*lab 0.5 0.0 0.0	

relative Inform. Technology (IT)	
olv3* 0.25 0.25 0.25 (1.0)	
olv4* 0.75 0.75 0.75 (0.0)	
olv5* 0.0 0.0 0.0 (0.0)	
olv6* 0.0 0.0 0.0 (0.0)	
standard and adapted CIELAB	
LAB*LAB 37.37 0.0 0.0	
LAB*LABa 37.37 0.0 0.0	
LAB*LABb 37.37 0.0 0.0	
LAB*LABc 37.37 0.0 0.0	
relative CIELAB lab*	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
relative Natural Colour (NC)	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	

relative Inform. Technology (IT)	
olv3* 0.5 0.5 0.5 (1.0)	
olv4* 0.5 0.5 0.5 (0.0)	
olv5* 0.5 0.5 0.5 (0.0)	
olv6* 0.5 0.5 0.5 (0.0)	
standard and adapted CIELAB	
LAB*LAB 46.26 18.52 8.82	
LAB*LABa 46.26 18.52 8.82	
LAB*LABb 46.26 18.52 8.82	
LAB*LABc 46.26 18.52 8.82	
relative CIELAB lab*	
lab*lab 0.365 0.25 0.0	
lab*lab 0.365 0.25 0.0	
lab*lab 0.365 0.25 0.0	
lab*lab 0.365 0.25 0.0	
relative Natural Colour (NC)	
lab*lab 0.365 0.25 0.0	
lab*lab 0.365 0.25 0.0	
lab*lab 0.365 0.25 0.0	
lab*lab 0.365 0.25 0.0	

relative Inform. Technology (IT)	
olv3* 0.5 0.0 0.931 (0.0)	
olv4* 0.5 0.0 0.931 (0.0)	
olv5* 0.5 0.0 0.931 (0.0)	
olv6* 0.5 0.0 0.931 (0.0)	
standard and adapted CIELAB	
LAB*LAB 35.82 37.03 17.65	
LAB*LABa 35.82 37.03 17.65	
LAB*LABb 35.82 37.03 17.65	
LAB*LABc 35.82 37.03 17.65	
relative CIELAB lab*	
lab*lab 0.23 0.451 0.215	
lab*lab 0.23 0.451 0.215	
lab*lab 0.23 0.451 0.215	
lab*lab 0.23 0.451 0.215	
relative Natural Colour (NC)	
lab*lab 0.23 0.451 0.215	
lab*lab 0.23 0.451 0.215	
lab*lab 0.23 0.451 0.215	
lab*lab 0.23 0.451 0.215	

relative Inform. Technology (IT)	
olv3* 0.25 1.0 0.896 (0.0)	
olv4* 0.25 1.0 0.896 (0.0)	
olv5* 0.25 1.0 0.896 (0.0)	
olv6* 0.25 1.0 0.896 (0.0)	
standard and adapted CIELAB	
LAB*LAB 44.72 55.55 26.48	
LAB*LABa 44.72 55.55 26.48	
LAB*LABb 44.72 55.55 26.48	
LAB*LABc 44.72 55.55 26.48	
relative CIELAB lab*	
lab*lab 0.345 0.677 0.323	
lab*lab 0.375 0.75 0.071	
lab*lab 0.375 0.75 0.071	
lab*lab 0.375 0.75 0.071	
relative Natural Colour (NC)	
lab*lab 0.345 0.677 0.323	
lab*lab 0.375 0.75 0.071	
lab*lab 0.375 0.75 0.071	
lab*lab 0.375 0.75 0.071	

relative Inform. Technology (IT)	
olv3* 0.25 0.25 0.25 (1.0)	
olv4* 0.75 0.75 0.75 (0.0)	
olv5* 0.0 0.0 0.0 (0.0)	
olv6* 0.0 0.0 0.0 (0.0)	
standard and adapted CIELAB	
LAB*LAB 37.36 0.0 0.0	
LAB*LABa 37.36 0.0 0.0	
LAB*LABb 37.36 0.0 0.0	
LAB*LABc 37.36 0.0 0.0	
relative CIELAB lab*	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
relative Natural Colour (NC)	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	

relative Inform. Technology (IT)	
olv3* 0.25 0.25 0.25 (1.0)	
olv4* 0.75 0.75 0.75 (0.0)	
olv5* 0.0 0.0 0.0 (0.0)	
olv6* 0.0 0.0 0.0 (0.0)	
standard and adapted CIELAB	
LAB*LAB 37.36 0.0 0.0	
LAB*LABa 37.36 0.0 0.0	
LAB*LABb 37.36 0.0 0.0	
LAB*LABc 37.36 0.0 0.0	
relative CIELAB lab*	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
relative Natural Colour (NC)	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	
lab*lab 0.25 0.0 0.0	

relative Inform. Technology (IT)	
olv3* 0.0 0.0 0.0 (1.0)	
olv4* 1.0 1.0 1.0 (0.0)	
olv5* 0.0 0.0 0.0 (0.0)	
olv6* 0.0 0.0 0.0 (0.0)	
standard and adapted CIELAB	
LAB*LAB 18.03 0.0 0.0	
LAB*LABa 18.03 0.0 0.0	
LAB*LABb 18.03 0.0 0.0	
LAB*LABc 18.03 0.0 0.0	
relative CIELAB lab*	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
relative Natural Colour (NC)	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	

relative Inform. Technology (IT)	
olv3* 0.25 0.0 0.931 (0.0)	
olv4* 0.25 0.0 0.931 (0.0)	
olv5* 0.25 0.0 0.931 (0.0)	
olv6* 0.25 0.0 0.931 (0.0)	
standard and adapted CIELAB	
LAB*LAB 35.82 37.03 17.65	
LAB*LABa 35.82 37.03 17.65	
LAB*LABb 35.82 37.03 17.65	
LAB*LABc 35.82 37.03 17.65	
relative CIELAB lab*	
lab*lab 0.115 0.226 0.108	
lab*lab 0.125 0.25 0.071	
lab*lab 0.125 0.25 0.071	
lab*lab 0.125 0.25 0.071	
relative Natural Colour (NC)	
lab*lab 0.115 0.226 0.108	
lab*lab 0.125 0.25 0.071	
lab*lab 0.125 0.25 0.071	
lab*lab 0.125 0.25 0.071	

relative Inform. Technology (IT)	
olv3* 0.0 0.0 0.0 (1.0)	
olv4* 1.0 1.0 1.0 (0.0)	
olv5* 0.0 0.0 0.0 (0.0)	
olv6* 0.0 0.0 0.0 (0.0)	
standard and adapted CIELAB	
LAB*LAB 18.03 0.0 0.0	
LAB*LABa 18.03 0.0 0.0	
LAB*LABb 18.03 0.0 0.0	
LAB*LABc 18.03 0.0 0.0	
relative CIELAB lab*	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
relative Natural Colour (NC)	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	

relative Inform. Technology (IT)	
olv3* 0.0 0.0 0.0 (1.0)	
olv4* 1.0 1.0 1.0 (0.0)	
olv5* 0.0 0.0 0.0 (0.0)	
olv6* 0.0 0.0 0.0 (0.0)	
standard and adapted CIELAB	
LAB*LAB 18.02 0.0 0.0	
LAB*LABa 18.02 0.0 0.0	
LAB*LABb 18.02 0.0 0.0	
LAB*LABc 18.02 0.0 0.0	
relative CIELAB lab*	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
relative Natural Colour (NC)	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	

relative Inform. Technology (IT)	
olv3* 0.0 0.0 0.0 (1.0)	
olv4* 1.0 1.0 1.0 (0.0)	
olv5* 0.0 0.0 0.0 (0.0)	
olv6* 0.0 0.0 0.0 (0.0)	
standard and adapted CIELAB	
LAB*LAB 18.02 0.0 0.0	
LAB*LABa 18.02 0.0 0.0	
LAB*LABb 18.02 0.0 0.0	
LAB*LABc 18.02 0.0 0.0	
relative CIELAB lab*	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
relative Natural Colour (NC)	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	
lab*lab 0.0 0.0 0.0	

relative Inform. Technology (IT)			
olv3*	0.0	0.0	(1.0)
olv4*	1.0	1.0	(0.0)
olv5*	0.0	1.0	(0.0)
olv6*	0.0	0.0	(0.0)
standard and adapted CIELAB			
*LAB	18.02	0.5	-0.47
*LABa	18.02	0.0	0.0
*TChA	0.01	0.01	-
relative CIELAB lab*			
lab	0.0	0.0	0.0
lab	0.0	0.0	-
lab	1.0	0.0	-
lab	0.0	0.0	0.0
lab	0.0	0.0	-
relative Natural Colour (NC)			
nc1	0.0	0.0	0.0
nc2	0.0	0.0	-

Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 92/360 = 0.256$

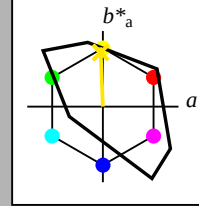
lab^*tch und lab^*nch

D65: Buntton J

LCH*Ma: 85 79 92

olv*Ma: 1.0 0.82 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 118$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0

TLS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
BC _{IE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 90.39 0.0 0.0
LAB*LABa 90.39 0.0 0.0
LAB*LABb 90.39 0.0 0.0

relative CIELAB lab*
lab*lab 0.935 0.019 0.499
lab*tch 0.75 0.5 0.256
lab*nch 0.0 0.5 0.256
relative Natural Colour (NC)
lab*lab 0.935 0.019 0.499
lab*tch 0.75 0.5 0.256
lab*nch 0.0 0.5 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.05 0.0 0.0
LAB*LABa 71.05 0.0 0.0
LAB*LABb 71.05 0.0 0.0

relative CIELAB lab*
lab*lab 0.7105 0.0 0.0
lab*tch 0.7105 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.7105 0.0 0.0
lab*tch 0.7105 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.7 0.0 0.0
LAB*LABa 51.7 0.0 0.0
LAB*LABb 51.7 0.0 0.0

relative CIELAB lab*
lab*lab 0.517 0.0 0.0
lab*tch 0.517 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.517 0.0 0.0
lab*tch 0.517 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 31.7 0.0 0.0
LAB*LABa 31.7 0.0 0.0
LAB*LABb 31.7 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0

Ausgabe: Farbmetrisches Offset-Reflektiv-System ORS18

für Buntton $h^* = lab^*h = 92/360 = 0.255$

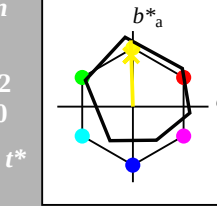
lab^*tch und lab^*nch

D65: Buntton J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 93$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 0.0 0.0
LAB*LABa 76.06 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.0 0.0
LAB*LABa 56.71 0.0 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.0 0.0
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0

ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
BC _{IE}	30.57	1.15	-46.84	46.86	271

%Regularität

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 90.8 0.0 0.0
LAB*LABa 90.8 0.0 0.0
LAB*LABb 90.8 0.0 0.0

relative CIELAB lab*
lab*lab 0.94 0.015 0.5
lab*tch 0.75 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*lab 0.94 0.015 0.5
lab*tch 0.75 0.5 0.255
lab*nch 0.0 0.5 0.255

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.45 0.0 0.0
LAB*LABa 71.45 0.0 0.0
LAB*LABb 71.45 0.0 0.0

relative CIELAB lab*
lab*lab 0.7145 0.0 0.0
lab*tch 0.7145 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.7145 0.0 0.0
lab*tch 0.7145 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.7 0.0 0.0
LAB*LABa 51.7 0.0 0.0
LAB*LABb 51.7 0.0 0.0

relative CIELAB lab*
lab*lab 0.517 0.0 0.0
lab*tch 0.517 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.517 0.0 0.0
lab*tch 0.517 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 31.7 0.0 0.0
LAB*LABa 31.7 0.0 0.0
LAB*LABb 31.7 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0

NG560-7, 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (rechts)

BAM-Prüfvorlage NG56; Farbmetrik-Systeme TLS18 & ORS18 input: $olv^*setrgbcolor$

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne

output: $olv^*setrgbcolor / w^*setgray$

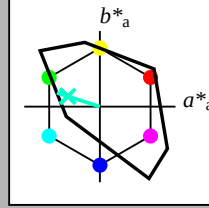
Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 162/360 = 0.451$

lab^*ch und lab^*nch

D65: Buntton G
LCH*Ma: 86 60 162
olv*Ma: 0.0 1.0 0.64

Dreiecks-Helligkeit t^*



$u^*_{rel} = 118$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*nce 1.0 0.0 -

standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*LABb 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.75 0.0 0.0
lab*nce 0.75 0.0 -

standard and adapted CIELAB
LAB*LAB 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*nce 0.5 0.0 -

standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.25 0.0 0.0
lab*nce 0.25 0.0 -

standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 10.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*nce 0.0 0.0 -

standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 -

TLS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.82 (1.0)
cmyn3* 0.5 0.0 0.18 (0.0)
olv4* 0.5 1.0 0.82 (1.0)
cmyn4* 0.5 0.0 0.18 (0.0)
standard and adapted CIELAB
LAB*LAB 90.7 -28.42 9.11
LAB*LABa 90.7 -28.42 9.11
LAB*LABb 75.0 29.85 162.23

relative CIELAB lab*
lab*lab 0.939 -0.475 0.153
lab*ch 0.75 0.5 0.451
lab*nch 0.0 0.5 0.451
relative Natural Colour (NC)
lab*lrj 0.939 -0.499 0.0
lab*nce 0.75 0.5 0.3
lab*nce 0.0 0.5 0.3

standard and adapted CIELAB
LAB*LAB 71.36 -28.42 9.12
LAB*LABa 71.36 -28.42 9.12
LAB*LABb 50.0 29.86 162.22

relative CIELAB lab*
lab*lab 0.689 -0.475 0.153
lab*ch 0.5 0.5 0.451
lab*nch 0.0 0.5 0.451
relative Natural Colour (NC)
lab*lrj 0.689 -0.499 0.0
lab*nce 0.5 0.5 0.3
lab*nce 0.0 0.5 0.3

standard and adapted CIELAB
LAB*LAB 52.01 -28.42 9.12
LAB*LABa 52.01 -28.42 9.12
LAB*LABb 25.01 29.86 162.22

relative CIELAB lab*
lab*lab 0.439 -0.475 0.153
lab*ch 0.25 0.5 0.451
lab*nch 0.0 0.5 0.451
relative Natural Colour (NC)
lab*lrj 0.439 -0.499 0.0
lab*nce 0.25 0.5 0.3
lab*nce 0.0 0.5 0.3

standard and adapted CIELAB
LAB*LAB 35.01 -14.2 4.56
LAB*LABa 35.01 -14.2 4.56
LAB*LABb 12.5 14.93 162.21

relative CIELAB lab*
lab*lab 0.22 -0.237 0.076
lab*ch 0.125 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*lrj 0.22 -0.249 0.0
lab*nce 0.125 0.25 0.3
lab*nce 0.0 0.25 0.3

standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 10.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.64 (1.0)
cmyn3* 0.25 0.0 0.36 (0.0)
olv4* 0.25 1.0 0.64 (1.0)
cmyn4* 0.25 0.0 0.36 (0.0)
standard and adapted CIELAB
LAB*LAB 88.35 -42.63 13.67
LAB*LABa 88.35 -42.63 13.67
LAB*LABb 62.5 44.78 162.23

relative CIELAB lab*
lab*lab 0.909 -0.713 0.229
lab*ch 0.625 0.75 0.451
lab*nch 0.0 0.75 0.451
relative Natural Colour (NC)
lab*lrj 0.909 -0.749 0.0
lab*nce 0.625 0.75 0.5
lab*nce 0.0 0.75 0.5

standard and adapted CIELAB
LAB*LAB 71.36 -28.42 9.12
LAB*LABa 71.36 -28.42 9.12
LAB*LABb 50.0 29.86 162.22

relative CIELAB lab*
lab*lab 0.659 -0.713 0.229
lab*ch 0.375 0.75 0.451
lab*nch 0.0 0.75 0.451
relative Natural Colour (NC)
lab*lrj 0.659 -0.749 0.0
lab*nce 0.375 0.75 0.5
lab*nce 0.0 0.75 0.5

standard and adapted CIELAB
LAB*LAB 52.01 -28.42 9.12
LAB*LABa 52.01 -28.42 9.12
LAB*LABb 25.01 29.86 162.22

relative CIELAB lab*
lab*lab 0.439 -0.475 0.153
lab*ch 0.25 0.5 0.451
lab*nch 0.0 0.5 0.451
relative Natural Colour (NC)
lab*lrj 0.439 -0.499 0.0
lab*nce 0.25 0.5 0.3
lab*nce 0.0 0.5 0.3

standard and adapted CIELAB
LAB*LAB 35.01 -14.2 4.56
LAB*LABa 35.01 -14.2 4.56
LAB*LABb 12.5 14.93 162.21

relative CIELAB lab*
lab*lab 0.22 -0.237 0.076
lab*ch 0.125 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*lrj 0.22 -0.249 0.0
lab*nce 0.125 0.25 0.3
lab*nce 0.0 0.25 0.3

standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 10.01 0.01 -

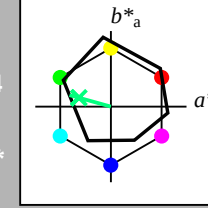
Ausgabe: Farbmetrisches Offset-Reflektiv-System ORS18

für Buntton $h^* = lab^*h = 164/360 = 0.457$

lab^*ch und lab^*nch

D65: Buntton G
LCH*Ma: 53 57 164
olv*Ma: 0.0 1.0 0.25

Dreiecks-Helligkeit t^*



$u^*_{rel} = 93$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.98 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*nce 1.0 0.0 -

standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.5 0.5 (1.0)
lab*nce 0.5 0.5 0.5 (1.0)

standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.5 0.5 (1.0)
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.25 0.5 0.5 (1.0)
lab*nce 0.25 0.5 0.5 (1.0)

standard and adapted CIELAB
LAB*LAB 37.36 -0.13 1.68
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 10.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.812 (1.0)
cmyn3* 0.25 0.0 0.188 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 84.75 -14.48 7.85
LAB*LABa 84.75 -13.69 3.81
LAB*LABb 87.5 14.25 164.46

relative CIELAB lab*
lab*lab 0.862 -0.24 0.067
lab*ch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.862 -0.249 0.0
lab*nce 0.875 0.25 0.5
lab*nce 0.0 0.25 0.5

standard and adapted CIELAB
LAB*LAB 74.1 -27.98 10.94
LAB*LABa 74.1 -27.98 10.94
LAB*LABb 75.0 28.45 164.46

relative CIELAB lab*
lab*lab 0.725 -0.481 0.134
lab*ch 0.75 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*lrj 0.725 -0.499 0.0
lab*nce 0.75 0.5 0.5
lab*nce 0.0 0.5 0.5

standard and adapted CIELAB
LAB*LAB 65.41 -14.11 6.35
LAB*LABa 65.41 -13.7 3.81
LAB*LABb 62.5 14.23 164.45

relative CIELAB lab*
lab*lab 0.612 -0.249 0.0
lab*ch 0.625 0.25 0.5
lab*nch 0.0 0.25 0.5
relative Natural Colour (NC)
lab*lrj 0.612 -0.249 0.0
lab*nce 0.625 0.25 0.5
lab*nce 0.0 0.25 0.5

standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.5 0.5 (1.0)
lab*nce 0.5 0.5 0.5 (1.0)

standard and adapted CIELAB
LAB*LAB 37.36 -0.13 1.68
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 10.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 65.41 -14.11 6.35
LAB*LABa 65.41 -13.7 3.81
LAB*LABb 62.5 14.23 164.45

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.5 0.5 (1.0)
lab*nce 0.5 0.5 0.5 (1.0)

standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.5 0.5 (1.0)
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.25 0.5 0.5 (1.0)
lab*nce 0.25 0.5 0.5 (1.0)

standard and adapted CIELAB
LAB*LAB 37.36 -0.13 1.68
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 10.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 -

ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.623 (1.0)
cmyn3* 0.5 0.0 0.377 (0.0)
olv4* 0.5 1.0 0.623 (1.0)
cmyn4* 0.5 0.0 0.377 (0.0)
standard and adapted CIELAB
LAB*LAB 74.1 -27.98 10.94
LAB*LABa 74.1 -27.98 10.94
LAB*LABb 75.0 28.45 164.46

relative CIELAB lab*
lab*lab 0.725 -0.481 0.134
lab*ch 0.75 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*lrj 0.725 -0.499 0.0
lab*nce 0.75 0.5 0.5
lab*nce 0.0 0.5 0.5

standard and adapted CIELAB
LAB*LAB 65.41 -14.11 6.35
LAB*LABa 65.41 -13.7 3.81
LAB*LABb 62.5 14.23 164.45

relative CIELAB lab*
lab*lab 0.612 -0.249 0.0
lab*ch 0.625 0.25 0.5
lab*nch 0.0 0.25 0.5
relative Natural Colour (NC)
lab*lrj 0.612 -0.249 0.0
lab*nce 0.625 0.25 0.5
lab*nce 0.0 0.25 0.5

standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.5 0.5 (1.0)
lab*nce 0.5 0.5 0.5 (1.0)

standard and adapted CIELAB
LAB*LAB 37.36 -0.13 1.68
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0

Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 272/360 = 0.755$

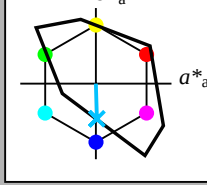
lab^*ich und lab^*nch

D65: Buntton B

LCH*Ma: 65 48 272

olv*Ma: 0.0 0.58 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 118$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*nce 0.75 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*nce 0.5 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

TLS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)
olv3* 0.75 0.895 1.0 (1.0)
cmyn3* 0.25 0.105 0.0 (0.0)
olv4* 0.75 0.895 1.0 (1.0)
cmyn4* 0.25 0.105 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 87.52 0.35 -11.85
LAB*LABa 87.52 0.35 -11.85
LAB*LABb 87.5 11.87 271.71

relative CIELAB lab*
lab*lab 0.903 0.007 -0.249
lab*ich 0.875 0.25 0.755
lab*nch 0.0 0.25 0.755
relative Natural Colour (NC)
lab*trj 0.903 0.0 -0.249
lab*nce 0.875 0.25 0.755

relative Inform. Technology (IT)
olv3* 0.5 0.645 0.75 (1.0)
cmyn3* 0.5 0.355 0.25 (0.0)
olv4* 0.75 0.895 1.0 (0.0)
cmyn4* 0.25 0.105 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 68.57 0.36 -11.86
LAB*LABa 68.57 0.36 -11.86
LAB*LABb 62.5 11.88 271.74

relative CIELAB lab*
lab*lab 0.653 0.008 -0.249
lab*ich 0.625 0.25 0.755
lab*nch 0.25 0.25 0.755
relative Natural Colour (NC)
lab*trj 0.653 0.0 -0.249
lab*nce 0.625 0.25 0.755

relative Inform. Technology (IT)
olv3* 0.25 0.54 0.75 (1.0)
cmyn3* 0.75 0.455 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*nce 0.5 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.455 0.75 (1.0)
cmyn3* 1.0 0.545 0.25 (0.0)
olv4* 0.25 0.685 1.0 (0.0)
cmyn4* 0.75 0.315 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 49.23 0.36 -11.86
LAB*LABa 49.23 0.36 -11.86
LAB*LABb 37.5 11.88 271.74

relative CIELAB lab*
lab*lab 0.403 0.008 -0.249
lab*ich 0.375 0.25 0.755
lab*nch 0.25 0.25 0.755
relative Natural Colour (NC)
lab*trj 0.403 0.0 -0.249
lab*nce 0.375 0.25 0.755

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.5 (0.0)
cmyn3* 1.0 0.75 0.5 (0.0)
olv4* 0.5 0.75 1.0 (0.0)
cmyn4* 0.5 0.25 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.54 0.75 (1.0)
cmyn3* 0.75 0.455 0.25 (0.0)
olv4* 0.5 0.75 1.0 (0.0)
cmyn4* 0.5 0.25 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 49.23 0.36 -11.86
LAB*LABa 49.23 0.36 -11.86
LAB*LABb 37.5 11.88 271.74

relative CIELAB lab*
lab*lab 0.403 0.008 -0.249
lab*ich 0.375 0.25 0.755
lab*nch 0.25 0.25 0.755
relative Natural Colour (NC)
lab*trj 0.403 0.0 -0.249
lab*nce 0.375 0.25 0.755

relative Inform. Technology (IT)
olv3* 0.0 0.455 0.75 (1.0)
cmyn3* 1.0 0.545 0.25 (0.0)
olv4* 0.25 0.685 1.0 (0.0)
cmyn4* 0.75 0.315 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 49.23 0.36 -11.86
LAB*LABa 49.23 0.36 -11.86
LAB*LABb 37.5 11.88 271.74

relative CIELAB lab*
lab*lab 0.403 0.008 -0.249
lab*ich 0.375 0.25 0.755
lab*nch 0.25 0.25 0.755
relative Natural Colour (NC)
lab*trj 0.403 0.0 -0.249
lab*nce 0.375 0.25 0.755

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.5 (0.0)
cmyn3* 1.0 0.75 0.5 (0.0)
olv4* 0.5 0.75 1.0 (0.0)
cmyn4* 0.5 0.25 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

Ausgabe: Farbmetrisches Offset-Reflektiv-System ORS18

für Buntton $h^* = lab^*h = 271/360 = 0.754$

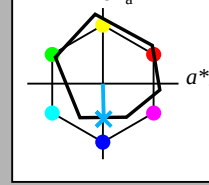
lab^*ich und lab^*nch

D65: Buntton B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 93$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.98 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*nce 0.75 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.24 2.14
LAB*LABa 56.71 0.24 2.14
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*nce 0.5 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.5 (0.0)
cmyn3* 1.0 0.75 0.5 (0.0)
olv4* 0.5 0.75 1.0 (0.0)
cmyn4* 0.5 0.25 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)
olv3* 0.5 0.622 0.75 (1.0)
cmyn3* 0.5 0.378 0.25 (0.0)
olv4* 0.75 0.872 1.0 (0.0)
cmyn4* 0.25 0.128 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 68.6 0.07 -19.39
LAB*LABa 68.6 0.07 -19.39
LAB*LABb 62.5 22.36 271.4

relative CIELAB lab*
lab*lab 0.654 0.012 -0.499
lab*ich 0.625 0.25 0.754
lab*nch 0.0 0.25 0.754
relative Natural Colour (NC)
lab*trj 0.654 0.0 -0.499
lab*nce 0.625 0.25 0.754

relative Inform. Technology (IT)
olv3* 0.25 0.484 0.75 (1.0)
cmyn3* 0.75 0.516 0.25 (0.0)
olv4* 0.5 0.744 1.0 (0.0)
cmyn4* 0.5 0.256 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 49.25 0.45 -20.7
LAB*LABa 49.25 0.45 -20.7
LAB*LABb 50.0 22.36 271.41

relative CIELAB lab*
lab*lab 0.48 0.018 -0.749
lab*ich 0.45 0.25 0.754
lab*nch 0.0 0.25 0.754
relative Natural Colour (NC)
lab*trj 0.48 0.0 -0.749
lab*nce 0.45 0.25 0.754

relative Inform. Technology (IT)
olv3* 0.0 0.244 0.5 (0.0)
cmyn3* 1.0 0.756 0.5 (0.0)
olv4* 0.5 0.744 1.0 (0.0)
cmyn4* 0.5 0.256 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 29.9 0.5 -22.34
LAB*LABa 29.9 0.5 -22.34
LAB*LABb 25.01 22.36 271.42

relative CIELAB lab*
lab*lab 0.154 0.012 -0.499
lab*ich 0.154 0.25 0.754
lab*nch 0.0 0.25 0.754
relative Natural Colour (NC)
lab*trj 0.154 0.0 -0.499
lab*nce 0.154 0.25 0.754

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0