

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 22/360 = 0.061$

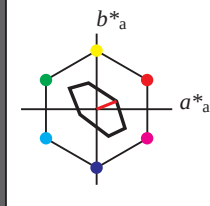
lab^*ch und lab^*nch

D65: Buntton O

LCH*Ma: 76 28 22

olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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*TCHa 99.99 0.0 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

TLS70; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	76.43	26.27	10.57	28.32	22
YMa	93.93	-10.76	34.63	36.27	107
LMa	89.32	-35.8	27.64	45.24	142
CMa	90.93	-21.95	-7.07	23.07	198
VMa	72.1	15.76	-35.63	38.97	294
MMa	78.5	37.52	-25.23	45.22	326
NMa	69.7	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

relative Inform. Technology (IT)
olvi3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 1.0
cmyn4* 0.0 0.5 0.5 0.0

standard and adapted CIELAB
LAB*LAB 85.92 13.13 5.28
LAB*LABa 85.92 13.13 5.28
LAB*TCHa 75.0 14.16 21.92

relative CIELAB lab*
lab*lab 0.631 0.464 0.187
lab*tch 0.75 0.5 0.061
lab*nch 0.0 0.5 0.061

relative Natural Colour (NC)
lab*lrj 0.631 0.499 -0.024
lab*tce 0.75 0.5 0.992
lab*nce 0.0 0.5 0.992

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 1.0 1.0 (0.0)
olvi4* 1.0 0.5 0.5 0.5
cmyn4* 0.0 0.5 0.5 0.5

standard and adapted CIELAB
LAB*LAB 73.07 13.13 5.28
LAB*LABa 73.07 13.13 5.28
LAB*TCHa 25.01 14.16 21.92

relative CIELAB lab*
lab*lab 0.131 0.464 0.187
lab*tch 0.25 0.5 0.061
lab*nch 0.5 0.5 0.061

relative Natural Colour (NC)
lab*lrj 0.131 0.499 -0.024
lab*tce 0.25 0.5 0.992
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relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
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relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 1.0 0.0 0.0 (1.0)
cmyn3* 0.0 1.0 1.0 (0.0)
olvi4* 1.0 0.0 0.0 1.0
cmyn4* 0.0 1.0 1.0 0.0

standard and adapted CIELAB
LAB*LAB 76.43 26.26 10.57
LAB*LABa 76.43 26.26 10.57
LAB*TCHa 50.0 28.31 21.92

relative CIELAB lab*
lab*lab 0.262 0.928 0.373
lab*tch 0.5 1.0 0.061
lab*nch 0.0 1.0 0.061

relative Natural Colour (NC)
lab*lrj 0.262 0.999 -0.048
lab*tce 0.5 1.0 0.992
lab*nce 0.0 1.0 0.992

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 1.0 1.0 (0.0)
olvi4* 1.0 0.5 0.5 0.5
cmyn4* 0.0 0.5 0.5 0.5

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lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

Schwarzheit n^*

relative Buntheit c^*

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 22/360 = 0.061$

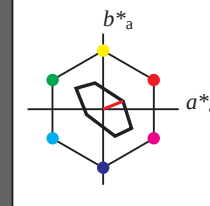
lab^*ch und lab^*nch

D65: Buntton O

LCH*Ma: 76 28 22

olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



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lab*nce 0.0 0.5 0.992

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olvi4* 1.0 0.5 0.5 0.5
cmyn4* 0.0 0.5 0.5 0.5

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lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

Schwarzheit n^*

relative Buntheit c^*

OG190-7, 3 stufige Reihen für konstanten CIELAB Buntton 22/360 = 0.061 (links)

3 stufige Reihen für konstanten CIELAB Buntton 22/360 = 0.061 (rechts)

BAM-Prüfvorlage OG19; Farbmétrik-Systeme TLS70 & TLS70 input: $cmv0^* setcmvcolor$

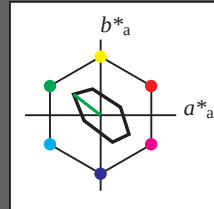
D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Bunttonen output: $cmv0^* / 000n^* setcmvcolor$

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 142/360 = 0.395$
 lab^*ch und lab^*nh

D65: Buntton L
LCH*Ma: 89 45 142
olv*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

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standard and adapted CIELAB
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LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.0 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
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standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
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relative CIELAB lab*
lab*lab 0.0 0.0 0.0
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relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1,0$

TLS70; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	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

relative Inform. Technology (IT)
olvi3* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olvi4* 0.5 1.0 0.5 1.0
cmyn4* 0.5 0.0 0.5 0.0

standard and adapted CIELAB
LAB*LAB 92.36 -17.89 13.82
LAB*LABa 92.36 -17.89 13.82
LAB*TCHa 75.0 22.61 142.34

relative CIELAB lab*
lab*lab 0.881 -0.395 0.305
lab*tch 0.75 0.5 0.395
lab*nch 0.0 0.5 0.395

relative Natural Colour (NC)
lab*lrj 0.881 -0.45 0.216
lab*tce 0.75 0.5 0.429
lab*nce 0.0 0.5 0.429

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 1.0 0.5 1.0 (0.0)
olvi4* 0.5 1.0 0.5 0.5
cmyn4* 0.5 0.0 0.5 0.5

standard and adapted CIELAB
LAB*LAB 79.51 -17.89 13.82
LAB*LABa 79.51 -17.89 13.82
LAB*TCHa 25.01 22.61 142.34

relative CIELAB lab*
lab*lab 0.382 -0.395 0.305
lab*tch 0.25 0.5 0.395
lab*nch 0.5 0.5 0.395

relative Natural Colour (NC)
lab*lrj 0.382 -0.45 0.216
lab*tce 0.25 0.5 0.429
lab*nce 0.5 0.5 0.429

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 0,50$

Schwarzheit n^*

relative Buntheit c^*

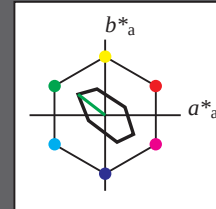
$n^* = 1,0$

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 142/360 = 0.395$
 lab^*ch und lab^*nh

D65: Buntton L
LCH*Ma: 89 45 142
olv*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

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cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 0,50$

Schwarzheit n^*

relative Buntheit c^*

$n^* = 1,0$

OG190-7, 3 stufige Reihen für konstanten CIELAB Buntton 142/360 = 0.395 (links)

3 stufige Reihen für konstanten CIELAB Buntton 142/360 = 0.395 (rechts)

BAM-Prüfvorlage OG19; Farbmétrik-Systeme TLS70 & TLS70 input: $cm y0^* setcmykcolor$

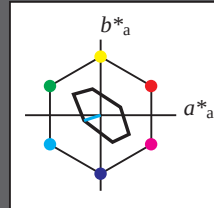
D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Bunttöne output: $cm y0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 198/360 = 0.55$
 lab^*ch und lab^*nh

D65: Buntton C
LCH*Ma: 91 23 198
olv*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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*TCHa 99.99 0.0 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

TLS70; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	76.43	26.27	10.57	28.32	22
YMa	93.93	-10.76	34.63	36.27	107
LMa	89.32	-35.8	27.64	45.24	142
CMa	90.93	-21.95	-7.07	23.07	198
VMa	72.1	15.76	-35.63	38.97	294
MMa	78.5	37.52	-25.23	45.22	326
NMa	69.7	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

relative Inform. Technology (IT)
olvi3* 0.5 1.0 1.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olvi4* 0.5 1.0 1.0 1.0
cmyn4* 0.5 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 93.17 -10.97 -3.53
LAB*LABa 93.17 -10.97 -3.53
LAB*TCHa 75.0 11.53 197.87

relative CIELAB lab*
lab*lab 0.913 -0.475 -0.152
lab*tch 0.75 0.5 0.55
lab*nch 0.0 0.5 0.55

relative Natural Colour (NC)
lab*lrj 0.913 -0.435 -0.244
lab*tce 0.75 0.5 0.581
lab*nce 0.0 0.5 g32b

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olvi4* 0.5 1.0 1.0 0.5
cmyn4* 0.5 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 80.32 -10.97 -3.53
LAB*LABa 80.32 -10.97 -3.53
LAB*TCHa 25.01 11.53 197.87

relative CIELAB lab*
lab*lab 0.413 -0.475 -0.152
lab*tch 0.25 0.5 0.55
lab*nch 0.5 0.5 0.55

relative Natural Colour (NC)
lab*lrj 0.413 -0.435 -0.244
lab*tce 0.25 0.5 0.581
lab*nce 0.5 0.5 g32b

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 0.00$

Schwarzheit n^*

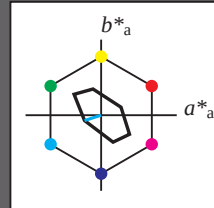
relative Buntheit c^*

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 198/360 = 0.55$
 lab^*ch und lab^*nh

D65: Buntton C
LCH*Ma: 91 23 198
olv*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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*TCHa 99.99 0.0 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

TLS70; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	76.43	26.27	10.57	28.32	22
YMa	93.93	-10.76	34.63	36.27	107
LMa	89.32	-35.8	27.64	45.24	142
CMa	90.93	-21.95	-7.07	23.07	198
VMa	72.1	15.76	-35.63	38.97	294
MMa	78.5	37.52	-25.23	45.22	326
NMa	69.7	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

relative Inform. Technology (IT)
olvi3* 0.5 1.0 1.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olvi4* 0.5 1.0 1.0 1.0
cmyn4* 0.5 0.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 93.17 -10.97 -3.53
LAB*LABa 93.17 -10.97 -3.53
LAB*TCHa 75.0 11.53 197.87

relative CIELAB lab*
lab*lab 0.913 -0.475 -0.152
lab*tch 0.75 0.5 0.55
lab*nch 0.0 0.5 0.55

relative Natural Colour (NC)
lab*lrj 0.913 -0.435 -0.244
lab*tce 0.75 0.5 0.581
lab*nce 0.0 0.5 g32b

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olvi4* 0.5 1.0 1.0 0.5
cmyn4* 0.5 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 80.32 -10.97 -3.53
LAB*LABa 80.32 -10.97 -3.53
LAB*TCHa 25.01 11.53 197.87

relative CIELAB lab*
lab*lab 0.413 -0.475 -0.152
lab*tch 0.25 0.5 0.55
lab*nch 0.5 0.5 0.55

relative Natural Colour (NC)
lab*lrj 0.413 -0.435 -0.244
lab*tce 0.25 0.5 0.581
lab*nce 0.5 0.5 g32b

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 0.00$

Schwarzheit n^*

relative Buntheit c^*

OG190-7, 3 stufige Reihen für konstanten CIELAB Buntton 198/360 = 0.55 (links)

3 stufige Reihen für konstanten CIELAB Buntton 198/360 = 0.55 (rechts)

BAM-Prüfvorlage OG19; Farbmétrik-Systeme TLS70 & TLS70 input: $cmv0^* setcmvcolor$

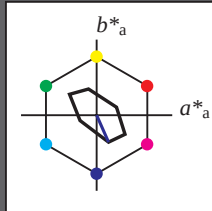
D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Bunttöne output: $cmv0^* / 000n^* setcmvcolor$

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 294/360 = 0.816$
 lab^*ch und lab^*nch

D65: Buntton V
LCH*Ma: 72 39 294
olv*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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*TCHa 99.99 0.0 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1,0$

TLS70; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 1.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 0.5 0.5 1.0 1.0
cmyn4* 0.5 0.5 0.0 0.0

standard and adapted CIELAB
LAB*LAB 83.75 7.88 -17.81
LAB*LABa 83.75 7.88 -17.81
LAB*TCHa 75.0 19.48 293.86

relative CIELAB lab*
lab*lab 0.547 0.202 -0.456
lab*tch 0.75 0.5 0.816
lab*nch 0.0 0.5 0.816

relative Natural Colour (NC)
lab*lrj 0.547 0.15 -0.476
lab*tce 0.75 0.5 0.799
lab*nce 0.0 0.5 b19r

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.5 (1.0)
cmyn3* 1.0 1.0 0.5 (0.0)
olvi4* 0.5 0.5 1.0 0.5
cmyn4* 0.5 0.5 0.0 0.5

standard and adapted CIELAB
LAB*LAB 70.9 7.88 -17.81
LAB*LABa 70.9 7.88 -17.81
LAB*TCHa 25.01 19.48 293.86

relative CIELAB lab*
lab*lab 0.047 0.202 -0.456
lab*tch 0.25 0.5 0.816
lab*nch 0.5 0.5 0.816

relative Natural Colour (NC)
lab*lrj 0.047 0.15 -0.476
lab*tce 0.25 0.5 0.799
lab*nce 0.5 0.5 b19r

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

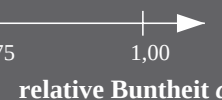
standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 0,00$

Schwarzheit n^*



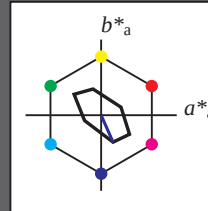
relative Buntheit c^*

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 294/360 = 0.816$
 lab^*ch und lab^*nch

D65: Buntton V
LCH*Ma: 72 39 294
olv*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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*TCHa 99.99 0.0 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1,0$

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.5 (1.0)
cmyn3* 1.0 1.0 0.5 (0.0)
olvi4* 0.5 0.5 1.0 0.5
cmyn4* 0.5 0.5 0.0 0.5

standard and adapted CIELAB
LAB*LAB 70.9 7.88 -17.81
LAB*LABa 70.9 7.88 -17.81
LAB*TCHa 25.01 19.48 293.86

relative CIELAB lab*
lab*lab 0.047 0.202 -0.456
lab*tch 0.25 0.5 0.816
lab*nch 0.5 0.5 0.816

relative Natural Colour (NC)
lab*lrj 0.047 0.15 -0.476
lab*tce 0.25 0.5 0.799
lab*nce 0.5 0.5 b19r

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

TLS70; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 1.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 0.5 0.5 1.0 1.0
cmyn4* 0.5 0.5 0.0 0.0

standard and adapted CIELAB
LAB*LAB 83.75 7.88 -17.81
LAB*LABa 83.75 7.88 -17.81
LAB*TCHa 75.0 19.48 293.86

relative CIELAB lab*
lab*lab 0.547 0.202 -0.456
lab*tch 0.75 0.5 0.816
lab*nch 0.0 0.5 0.816

relative Natural Colour (NC)
lab*lrj 0.547 0.15 -0.476
lab*tce 0.75 0.5 0.799
lab*nce 0.0 0.5 b19r

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.5 (1.0)
cmyn3* 1.0 1.0 0.5 (0.0)
olvi4* 0.5 0.5 1.0 0.5
cmyn4* 0.5 0.5 0.0 0.5

standard and adapted CIELAB
LAB*LAB 70.9 7.88 -17.81
LAB*LABa 70.9 7.88 -17.81
LAB*TCHa 25.01 19.48 293.86

relative CIELAB lab*
lab*lab 0.047 0.202 -0.456
lab*tch 0.25 0.5 0.816
lab*nch 0.5 0.5 0.816

relative Natural Colour (NC)
lab*lrj 0.047 0.15 -0.476
lab*tce 0.25 0.5 0.799
lab*nce 0.5 0.5 b19r

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

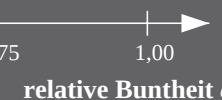
standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 0,00$

Schwarzheit n^*



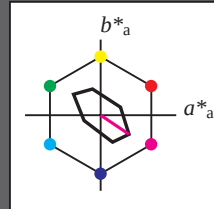
relative Buntheit c^*

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 326/360 = 0.906$
 lab^*tch und lab^*nch

D65: Buntton M
LCH*Ma: 79 45 326
olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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*TCHa 99.99 0.0 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

TLS70; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	76.43	26.27	10.57	28.32	22
YMa	93.93	-10.76	34.63	36.27	107
LMa	89.32	-35.8	27.64	45.24	142
CMa	90.93	-21.95	-7.07	23.07	198
VMa	72.1	15.76	-35.63	38.97	294
MMa	78.5	37.52	-25.23	45.22	326
NMa	69.7	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

relative Inform. Technology (IT)
olvi3* 1.0 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olvi4* 1.0 0.5 1.0 1.0
cmyn4* 0.0 0.5 0.0 0.0

standard and adapted CIELAB
LAB*LAB 86.95 18.76 -12.61
LAB*LABa 86.95 18.76 -12.61
LAB*TCHa 75.0 22.61 326.07

relative CIELAB lab*
lab*lab 0.671 0.415 -0.278
lab*tch 0.75 0.5 0.906
lab*nch 0.0 0.5 0.906

relative Natural Colour (NC)
lab*lrj 0.671 0.341 -0.365
lab*tce 0.75 0.5 0.869
lab*nce 0.0 0.5 b47r

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 1.0 0.5 (0.0)
olvi4* 1.0 0.5 1.0 0.5
cmyn4* 0.0 0.5 0.0 0.5

standard and adapted CIELAB
LAB*LAB 74.1 18.76 -12.61
LAB*LABa 74.1 18.76 -12.61
LAB*TCHa 25.01 22.61 326.07

relative CIELAB lab*
lab*lab 0.171 0.415 -0.278
lab*tch 0.25 0.5 0.906
lab*nch 0.5 0.5 0.906

relative Natural Colour (NC)
lab*lrj 0.171 0.341 -0.365
lab*tce 0.25 0.5 0.869
lab*nce 0.5 0.5 b47r

$n^* = 0.50$

relative Buntheit c^*

Schwarzheit n^*

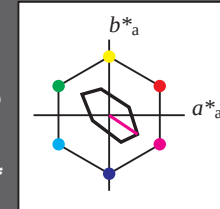
relative Buntheit c^*

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 326/360 = 0.906$
 lab^*tch und lab^*nch

D65: Buntton M
LCH*Ma: 79 45 326
olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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*TCHa 99.99 0.0 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nch 0.0 0.0 -

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nch 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

relative Buntheit c^*

relative Inform. Technology (IT)
olvi3* 1.0 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olvi4* 1.0 0.5 1.0 1.0
cmyn4* 0.0 0.5 0.0 0.0

standard and adapted CIELAB
LAB*LAB 86.95 18.76 -12.61
LAB*LABa 86.95 18.76 -12.61
LAB*TCHa 75.0 22.61 326.07

relative CIELAB lab*
lab*lab 0.671 0.415 -0.278
lab*tch 0.75 0.5 0.906
lab*nch 0.0 0.5 0.906

relative Natural Colour (NC)
lab*lrj 0.671 0.341 -0.365
lab*tce 0.75 0.5 0.869
lab*nce 0.0 0.5 b47r

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 1.0 0.5 (0.0)
olvi4* 1.0 0.5 1.0 0.5
cmyn4* 0.0 0.5 0.0 0.5

standard and adapted CIELAB
LAB*LAB 74.1 18.76 -12.61
LAB*LABa 74.1 18.76 -12.61
LAB*TCHa 25.01 22.61 326.07

relative CIELAB lab*
lab*lab 0.171 0.415 -0.278
lab*tch 0.25 0.5 0.906
lab*nch 0.5 0.5 0.906

relative Natural Colour (NC)
lab*lrj 0.171 0.341 -0.365
lab*tce 0.25 0.5 0.869
lab*nce 0.5 0.5 b47r

$n^* = 0.50$

relative Buntheit c^*

relative Inform. Technology (IT)
olvi3* 1.0 0.0 1.0 (1.0)
cmyn3* 0.0 1.0 0.0 (0.0)
olvi4* 1.0 0.0 1.0 1.0
cmyn4* 0.0 1.0 0.0 0.0

standard and adapted CIELAB
LAB*LAB 78.5 37.51 -25.22
LAB*LABa 78.5 37.51 -25.22
LAB*TCHa 50.0 45.21 326.07

relative CIELAB lab*
lab*lab 0.342 0.83 -0.557
lab*tch 0.5 1.0 0.906
lab*nch 0.0 1.0 0.906

relative Natural Colour (NC)
lab*lrj 0.342 0.682 -0.73
lab*tce 0.5 1.0 0.869
lab*nce 0.0 1.0 b47r

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 1.0 0.5 (0.0)
olvi4* 1.0 0.5 1.0 0.5
cmyn4* 0.0 0.5 0.0 0.5

standard and adapted CIELAB
LAB*LAB 74.1 18.76 -12.61
LAB*LABa 74.1 18.76 -12.61
LAB*TCHa 25.01 22.61 326.07

relative CIELAB lab*
lab*lab 0.171 0.415 -0.278
lab*tch 0.25 0.5 0.906
lab*nch 0.5 0.5 0.906

relative Natural Colour (NC)
lab*lrj 0.171 0.341 -0.365
lab*tce 0.25 0.5 0.869
lab*nce 0.5 0.5 b47r

$n^* = 0.50$

relative Buntheit c^*

Schwarzheit n^*

OG19-7, 3 stufige Reihen für konstanten CIELAB Buntton 326/360 = 0.906 (links)

3 stufige Reihen für konstanten CIELAB Buntton 326/360 = 0.906 (rechts)

BAM-Prüfvorlage OG19; Farbmétrik-Systeme TLS70 & TLS70 input: $cm y0^* setcmykcolor$

D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Bunttöne output: $cm y0^* / 000n^* setcmykcolor$

D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Bunttöne
Output: *cmy0* / 000n* setcmykcolor*

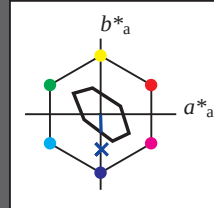
D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Bunttöne `output: cmy0* / 000n* setcmykcolor`

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

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

D65: Buntton B
LCH*Ma: 80 24 272
olv*Ma: 0.0 0.4 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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*TCHa 99.99 0.0 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nh 0.0 0.0 -

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nh 0.5 0.0 -

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nh 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

TLS70; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	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

relative Inform. Technology (IT)
olvi3* 0.5 0.699 1.0 (1.0)
cmyn3* 0.5 0.301 0.0 (0.0)
olvi4* 0.5 0.699 1.0 1.0
cmyn4* 0.5 0.301 0.0 0.0

standard and adapted CIELAB
LAB*LAB 87.5 0.37 -12.12
LAB*LABa 87.5 0.37 -12.12
LAB*TCHa 75.0 12.13 271.73

relative CIELAB lab*
lab*lab 0.693 0.015 -0.499
lab*tch 0.75 0.5 0.755
lab*nh 0.0 0.5 0.755

relative Natural Colour (NC)
lab*lrj 0.693 0.0 -0.499
lab*tce 0.75 0.5 0.75
lab*nce 0.0 0.5 0.755

relative Inform. Technology (IT)
olvi3* 0.0 0.199 0.5 (1.0)
cmyn3* 1.0 0.801 0.5 (0.0)
olvi4* 0.5 0.699 1.0 0.5
cmyn4* 0.5 0.301 0.0 0.5

standard and adapted CIELAB
LAB*LAB 74.65 0.37 -12.12
LAB*LABa 74.65 0.37 -12.12
LAB*TCHa 25.01 12.14 271.75

relative CIELAB lab*
lab*lab 0.193 0.015 -0.499
lab*tch 0.25 0.5 0.755
lab*nh 0.5 0.5 0.755

relative Natural Colour (NC)
lab*lrj 0.193 0.0 -0.499
lab*tce 0.25 0.5 0.75
lab*nce 0.5 0.5 0.755

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nh 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 0.00$

Schwarzheit n^*

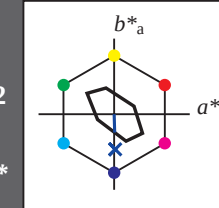
relative Buntheit c^*

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS70

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

D65: Buntton B
LCH*Ma: 80 24 272
olv*Ma: 0.0 0.4 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 16$

%Regularität

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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*TCHa 99.99 0.0 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 -
lab*nh 0.0 0.0 -

relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.0 0.0 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nh 0.5 0.0 -

relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 0.0 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB
LAB*LAB 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.01 0.0 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 -
lab*nh 1.0 0.0 -

relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

$n^* = 0.00$

Schwarzheit n^*

relative Buntheit c^*

OG19-7, 3 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)

3 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (rechts)

BAM-Prüfvorlage OG19; Farbmétrik-Systeme TLS70 & TLS70 input: $cmY0^* setcmykcolor$

D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Bunttöne output: $cmY0^* / 000n^* setcmykcolor$