

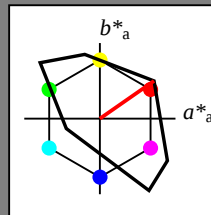
Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

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

D65: Buntton O

LCH*Ma: 53 87 35

olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^* 

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)
LAB*LAB	59.41	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	
LAB*TCa	99.99	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	59.41	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	
LAB*TCa	99.99	0.01	0.0	

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	0.0	

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0	
lab*ch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.07	0.0	0.0	
LAB*LAB	76.07	0.0	0.0	
LAB*TCa	75.00	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	76.07	0.0	0.0	
LAB*LAB	76.07	0.0	0.0	
LAB*TCa	75.00	0.01	0.0	

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	0.0	

relative Natural Colour (NC)

lab*lab	0.75	0.0	0.0	
lab*ch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	56.72	0.0	0.0	
LAB*LAB	56.72	0.0	0.0	
LAB*TCa	55.00	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	56.72	0.0	0.0	
LAB*LAB	56.72	0.0	0.0	
LAB*TCa	55.00	0.01	0.0	

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	0.0	

relative Natural Colour (NC)

lab*lab	0.75	0.0	0.0	
lab*ch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	37.37	0.0	0.0	
LAB*LAB	37.37	0.0	0.0	
LAB*TCa	35.00	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	37.37	0.0	0.0	
LAB*LAB	37.37	0.0	0.0	
LAB*TCa	35.00	0.01	0.0	

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	0.0	

relative Natural Colour (NC)

lab*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	0.0	
lab*nch	0.0	0.0	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	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	18.03	0.0	0.0	
LAB*LAB	18.03	0.0	0.0	
LAB*TCa	0.01	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	18.03	0.0	0.0	
LAB*LAB	18.03	0.0	0.0	
LAB*TCa	0.01	0.01	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	0.0	

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

 $n^* = 1.0$

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	84.74	17.9	12.47	
LAB*LAB	84.74	17.9	12.47	
LAB*TCa	87.5	21.81	34.85	

standard and adapted CIELAB

LAB*LAB	84.74	17.9	12.47	
LAB*LAB	84.74	17.9	12.47	
LAB*TCa	87.5	21.81	34.85	

relative CIELAB lab*

lab*lab	0.862	0.205	0.143	
lab*ch	0.875	0.25	0.097	
lab*nch	0.0	0.25	0.097	

relative Natural Colour (NC)

lab*lab	0.862	0.244	0.055	
lab*ch	0.875	0.25	0.035	
lab*nch	0.0	0.25	0.14	

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.5	(1.0)
cmyn3*	0.25	0.5	0.5	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	65.4	17.91	12.47	
LAB*LAB	65.4	17.91	12.47	
LAB*TCa	62.5	21.82	34.85	

standard and adapted CIELAB

LAB*LAB	65.4	17.91	12.47	
LAB*LAB	65.4	17.91	12.47	
LAB*TCa	62.5	21.82	34.85	

relative CIELAB lab*

lab*lab	0.724	0.41	0.286	
lab*ch	0.75	0.5	0.097	
lab*nch	0.0	0.5	0.097	

relative Natural Colour (NC)

lab*lab	0.724	0.488	0.109	
lab*ch	0.75	0.5	0.035	
lab*nch	0.0	0.5	0.14	

relative Inform. Technology (IT)

olvi3*	0.75	0.25	0.25	(1.0)
cmyn3*	0.25	0.75	0.75	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	46.05	17.91	12.47	
LAB*LAB	46.05	17.91	12.47	
LAB*TCa	37.5	21.82	34.85	

standard and adapted CIELAB

LAB*LAB	46.05	17.91	12.47	
LAB*LAB	46.05	17.91	12.47	
LAB*TCa	37.5	21.82	34.85	

relative CIELAB lab*

lab*lab	0.587	0.615	0.429	
lab*ch	0.625	0.75	0.097	
lab*nch	0.0	0.75	0.097	

relative Natural Colour (NC)

lab*lab	0.587	0.732	0.164	
lab*ch	0.625	0.75	0.035	
lab*nch	0.0	0.75	0.14	

relative Inform. Technology (IT)

olvi3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	35.39	35.81	24.94	
LAB*LAB	35.39	35.81	24.94	
LAB*TCa	25.01	43.63	34.85	

standard and adapted CIELAB

LAB*LAB	35.39	35.81	24.94	
LAB*LAB	35.39	35.81	24.94	
LAB*TCa	25.01	43.63	34.85	

relative CIELAB lab*

lab*lab	0.337	0.615	0.429	
lab*ch	0.375	0.75	0.097	
lab*nch	0.0	0.75	0.097	

relative Natural Colour (NC)

lab*lab	0.337	0.732	0.164	
lab*ch	0.375	0.75	0.035	
lab*nch	0.0	0.75	0.14	

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.0	(1.0)
cmyn3*	0.75	0.0	0.0	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	26.7	17.9	12.47	
LAB*LAB	26.7	17.9	12.47	
LAB*TCa	12.5	21.81	34.85	

standard and adapted CIELAB

LAB*LAB	26.7	17.9	12.47	
LAB*LAB	26.7	17.9	12.47	
LAB*TCa	12.5	21.81	34.85	

relative CIELAB lab*

lab*lab	0.112	0.205	0.143	
lab*ch	0.125	0.25	0.097	
lab*nch	0.0	0.25	0.097	

relative Natural Colour (NC)

lab*lab	0.112	0.244	0.055	
lab*ch	0.125	0.25	0.035	
lab*nch	0.0	0.25	0.14	

 $n^* = 0.50$

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)
LAB*LAB	74.08	35.81	24.94	
LAB*LAB	74.08	35.81	24.94	
LAB*TCa	75.0	43.63	34.85	

standard and adapted CIELAB

LAB*LAB	74.08	35.81	24.94	
LAB*LAB	74.08	35.81	24.94	
LAB*TCa	75.0	43.63	34.85	

relative CIELAB lab*

lab*lab	0.724	0.41	0.286	
lab*ch	0.75	0.5	0.097	
lab*nch	0.0	0.5	0.097	

relative Natural Colour (NC)

lab*lab	0.724	0.488	0.109	
lab*ch	0.75	0.5	0.035	
lab*nch	0.0	0.5	0.14	

relative Inform. Technology (IT)

olvi3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	0.0	0.0	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	54.74	35.82	24.94	
LAB*LAB	54.74	35.82	24.94	
LAB*TCa	50.0	43.64	34.85	

standard and adapted CIELAB

LAB*LAB	54.74	35.82	24.94	
LAB*LAB	54.74	35.82	24.94	
LAB*TCa	50.0	43.64	34.85	

relative CIELAB lab*

lab*lab	0.474	0.41	0.286	
lab*ch	0.5	0.5	0.097	
lab*nch	0.0	0.5	0.097	

relative Natural Colour (NC)

lab*lab	0.474	0.488	0.109	
lab*ch	0.5	0.5	0.035	
lab*nch	0.0	0.5	0.14	

relative Inform. Technology (IT)

olvi3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	44.08	35.72	37.41	
LAB*LAB	44.08	35.72	37.41	
LAB*TCa	37.51	65.46	34.85	

standard and adapted CIELAB

LAB*LAB	44.08	35.72	37.41	
LAB*LAB	44.08	35.72	37.41	
LAB*TCa	37.51	65.46	34.85	

relative CIELAB lab*

lab*lab	0.337	0.615	0.429	
lab*ch	0.375	0.75	0.097	
lab*nch	0.0	0.75	0.097	

relative Natural Colour (NC)

lab*lab	0.337	0.732	0.164	
lab*ch	0.375	0.75	0.035	
lab*nch	0.0	0.75	0.14	

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.0	(1.0)
cmyn3*	0.75	0.0	0.0	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	35.39	35.81	24.94	
LAB*LAB	35.39	35.81	24.94	
LAB*TCa	25.01	43.63	34.85	

standard and adapted CIELAB

LAB*LAB	35.39	35.81	24.94	
LAB*LAB	35.39	35.81	24.94	
LAB*TCa	25.01	43.63	34.85	

relative CIELAB lab*

lab*lab	0.337	0.615	0.429	
lab*ch	0.375	0.75	0.097	
lab*nch	0.0	0.75	0.097	

relative Natural Colour (NC)

lab*lab	0.337	0.732	0.164	
lab*ch	0.375	0.75	0.035	
lab*nch	0.0	0.75	0.14	

0,50

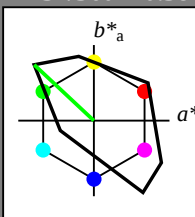
Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

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

lab^*ch 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*	0.75	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.0	0.0	0.0	(0.0)
olv6*	0.0	0.0	0.0	(0.0)
LAB*Lab	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	

standard and adapted CIELAB

LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	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	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	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	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	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

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*	0.75	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.0	0.0	0.0	(0.0)
olv6*	0.0	0.0	0.0	(0.0)
LAB*Lab	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	

standard and adapted CIELAB

LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	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	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	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

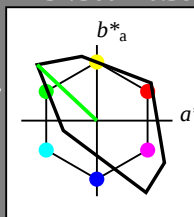
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für Buntton $h^* = lab^*h = 137/360 = 0.38$

lab^*ch 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*	0.75	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.0	0.0	0.0	(0.0)
olv6*	0.0	0.0	0.0	(0.0)
LAB*Lab	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	

standard and adapted CIELAB

LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	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	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	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	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	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

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*	0.75	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.0	0.0	0.0	(0.0)
olv6*	0.0	0.0	0.0	(0.0)
LAB*Lab	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	

standard and adapted CIELAB

LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	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	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	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

NG590-7, 5 stufige Reihen für konstanten CIELAB Buntton 137/360 = 0.38 (links)

5 stufige Reihen für konstanten CIELAB Buntton 137/360 = 0.38 (rechts)

BAM-Prüfvorlage NG59; Farbmetrik-Systeme ORS18 & ORS18input: olv* setrgbcolor

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: Startup (S) data dependend

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: *Startup (S) data dependend*

