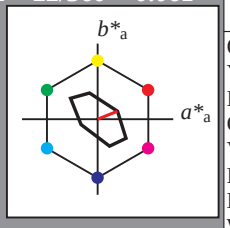
Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

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

D65: Buntton O
LCH*Ma: 76 28 22
olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



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

%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 –

***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 b96r

***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
*lab*ncE* 0.5 0.5 b96r

***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 b96r

$n^* = 0{,}00$

Schwarzheit n^*

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

relative Buntheit c^*

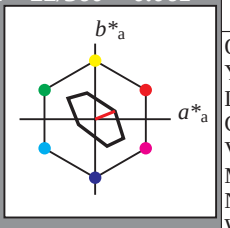
$n^* = 1{,}0$

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

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

D65: Buntton O
LCH*Ma: 76 28 22
olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



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
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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

%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
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*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 –

***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
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*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 b96r

***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
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***relative* CIELAB *lab**
*lab*lab* 0.131 0.464 0.187
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*lab*nch* 0.5 0.5 0.061
***relative* Natural Colour (NC)**
*lab*lrj* 0.131 0.499 −0.024
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***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
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*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 b96r

$n^* = 0{,}00$

Schwarzheit n^*

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

relative Buntheit c^*

$n^* = 1{,}0$

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)

Siehe ähnliche Dateien: http://www.ps.bam.de/OG19/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

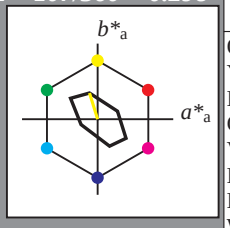
BAM-Registrierung: 20060101-OG19/10L/L19G00FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker– oder Monitorsystemen
/OG19/ Form: 1/10, Serie: 1/1, Seite: 1 Seitenz hlung 1

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 107/360 = 0.298$
lab*tch* und *lab*nch

D65: Buntton Y
LCH*Ma: 94 36 107
olv*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit t^*



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

%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**	1.0	1.0	0.5	(1.0)
*cmyn3**	0.0	0.0	0.5	(0.0)
*olvi4**	1.0	1.0	0.5	1.0
*cmyn4**	0.0	0.0	0.5	0.0

***standard* and *adapted* CIELAB**

*LAB*LAB*	94.67	−5.37	17.31
*LAB*LABa*	94.67	−5.37	17.31
*LAB*TCHa*	75.0	18.13	107.28

relative* CIELAB *lab*

*lab*lab*	0.971	−0.147	0.477
*lab*tch*	0.75	0.5	0.298
*lab*nch*	0.0	0.5	0.298

***relative* Natural Colour (NC)**

*lab*lrj*	0.971	−0.164	0.472
*lab*tce*	0.75	0.5	0.304
*lab*ncE*	0.0	0.5	j21g

***relative* Inform. Technology (IT)**

*olvi3**	0.5	0.5	0.0	(1.0)
*cmyn3**	0.5	0.5	1.0	(0.0)
*olvi4**	1.0	1.0	0.5	0.5
*cmyn4**	0.0	0.0	0.5	0.5

***standard* and *adapted* CIELAB**

*LAB*LAB*	81.82	−5.37	17.31
*LAB*LABa*	81.82	−5.37	17.31
*LAB*TCHa*	25.01	18.13	107.28

relative* CIELAB *lab*

*lab*lab*	0.471	−0.147	0.477
*lab*tch*	0.25	0.5	0.298
*lab*nch*	0.5	0.5	0.298

***relative* Natural Colour (NC)**

*lab*lrj*	0.471	−0.164	0.472
*lab*tce*	0.25	0.5	0.304
*lab*ncE*	0.5	0.5	j21g

***relative* Inform. Technology (IT)**

*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0

***standard* and *adapted* CIELAB**

*LAB*LAB*	93.93	−10.76	34.62
*LAB*LABa*	93.93	−10.76	34.62
*LAB*TCHa*	50.0	36.26	107.28

relative* CIELAB *lab*

*lab*lab*	0.942	−0.296	0.955
*lab*tch*	0.5	1.0	0.298
*lab*nch*	0.0	1.0	0.298

***relative* Natural Colour (NC)**

*lab*lrj*	0.942	−0.329	0.944
*lab*tce*	0.5	1.0	0.304
*lab*ncE*	0.0	1.0	j21g

$n^* = 0{,}00$

Schwarzheit n^*

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

relative Buntheit c^*

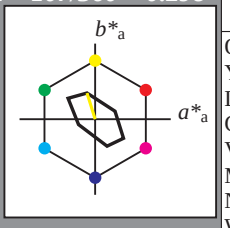
OG190−7, 3 stufige Reihen für konstanten CIELAB Buntton 107/360 = 0.298 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 107/360 = 0.298$
lab*tch* und *lab*nch

D65: Buntton Y
LCH*Ma: 94 36 107
olv*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit t^*



TLS70; adaptierte CIELAB-Daten

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G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%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**	1.0	1.0	0.5	(1.0)
*cmyn3**	0.0	0.0	0.5	(0.0)
*olvi4**	1.0	1.0	0.5	1.0
*cmyn4**	0.0	0.0	0.5	0.0

***standard* and *adapted* CIELAB**

*LAB*LAB*	94.67	−5.37	17.31
*LAB*LABa*	94.67	−5.37	17.31
*LAB*TCHa*	75.0	18.13	107.28

relative* CIELAB *lab*

*lab*lab*	0.971	−0.147	0.477
*lab*tch*	0.75	0.5	0.298
*lab*nch*	0.0	0.5	0.298

***relative* Natural Colour (NC)**

*lab*lrj*	0.971	−0.164	0.472
*lab*tce*	0.75	0.5	0.304
*lab*ncE*	0.0	0.5	j21g

***relative* Inform. Technology (IT)**

*olvi3**	0.5	0.5	0.0	(1.0)
*cmyn3**	0.5	0.5	1.0	(0.0)
*olvi4**	1.0	1.0	0.5	0.5
*cmyn4**	0.0	0.0	0.5	0.5

***standard* and *adapted* CIELAB**

*LAB*LAB*	81.82	−5.37	17.31
*LAB*LABa*	81.82	−5.37	17.31
*LAB*TCHa*	25.01	18.13	107.28

relative* CIELAB *lab*

*lab*lab*	0.471	−0.147	0.477
*lab*tch*	0.25	0.5	0.298
*lab*nch*	0.5	0.5	0.298

***relative* Natural Colour (NC)**

*lab*lrj*	0.471	−0.164	0.472
*lab*tce*	0.25	0.5	0.304
*lab*ncE*	0.5	0.5	j21g

***relative* Inform. Technology (IT)**

*olvi3**	1.0	1.0	0.0	(1.0)
*cmyn3**	0.0	0.0	1.0	(0.0)
*olvi4**	1.0	1.0	0.0	1.0
*cmyn4**	0.0	0.0	1.0	0.0

***standard* and *adapted* CIELAB**

*LAB*LAB*	93.93	−10.76	34.62
*LAB*LABa*	93.93	−10.76	34.62
*LAB*TCHa*	50.0	36.26	107.28

relative* CIELAB *lab*

*lab*lab*	0.942	−0.296	0.955
*lab*tch*	0.5	1.0	0.298
*lab*nch*	0.0	1.0	0.298

***relative* Natural Colour (NC)**

*lab*lrj*	0.942	−0.329	0.944
*lab*tce*	0.5	1.0	0.304
*lab*ncE*	0.0	1.0	j21g

$n^* = 0{,}00$

Schwarzheit n^*

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

relative Buntheit c^*

3 stufige Reihen für konstanten CIELAB Buntton 107/360 = 0.298 (rechts)

Siehe ähnliche Dateien: http://www.ps.bam.de/OG19/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

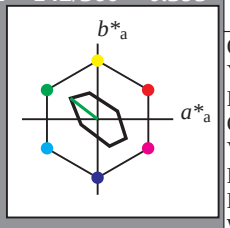
BAM-Registrierung: 20060101-OG19/10L/L19G01FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker– oder Monitorsystemen
/OG19/ Form: 2/10, Serie: 1/1, Seite: 2 Seitenzählung 2

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 142/360 = 0.395$
lab*tch* und *lab*nch

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

Dreiecks-Helligkeit t^*



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

%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 –

***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 j71g

***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 j71g

***relative* Inform. Technology (IT)**
*olvi3** 0.0 1.0 0.0 (1.0)
*cmyn3** 1.0 0.0 1.0 (0.0)
*olvi4** 0.0 1.0 0.0 1.0
*cmyn4** 1.0 0.0 1.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 89.32 −35.79 27.63
*LAB*LABa* 89.32 −35.79 27.63
*LAB*TCHa* 50.0 45.23 142.34
relative* CIELAB *lab*
*lab*lab* 0.763 −0.79 0.611
*lab*tch* 0.5 1.0 0.395
*lab*nch* 0.0 1.0 0.395
***relative* Natural Colour (NC)**
*lab*lrj* 0.763 −0.901 0.432
*lab*tce* 0.5 1.0 0.429
*lab*ncE* 0.0 1.0 j71g

$n^* = 0{,}00$

Schwarzheit n^*

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

relative Buntheit c^*

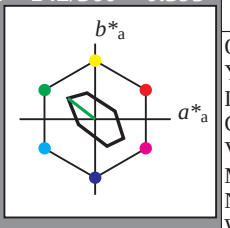
$n^* = 1{,}0$

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton $h^* = lab^*h = 142/360 = 0.395$
lab*tch* und *lab*nch

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

Dreiecks-Helligkeit t^*



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

%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 –

***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 j71g

***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 j71g

***relative* Inform. Technology (IT)**
*olvi3** 0.0 1.0 0.0 (1.0)
*cmyn3** 1.0 0.0 1.0 (0.0)
*olvi4** 0.0 1.0 0.0 1.0
*cmyn4** 1.0 0.0 1.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 89.32 −35.79 27.63
*LAB*LABa* 89.32 −35.79 27.63
*LAB*TCHa* 50.0 45.23 142.34
relative* CIELAB *lab*
*lab*lab* 0.763 −0.79 0.611
*lab*tch* 0.5 1.0 0.395
*lab*nch* 0.0 1.0 0.395
***relative* Natural Colour (NC)**
*lab*lrj* 0.763 −0.901 0.432
*lab*tce* 0.5 1.0 0.429
*lab*ncE* 0.0 1.0 j71g

$n^* = 0{,}00$

Schwarzheit n^*

0,25 0,50 $n^* = 0{,}50$ 0,75 1,00

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)

Siehe ähnliche Dateien: http://www.ps.bam.de/OG19/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

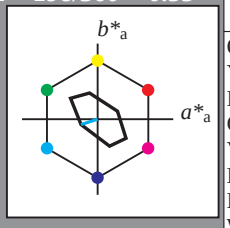
BAM-Registrierung: 20060101-OG19/10L/L19G02FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker– oder Monitorsystemen
/OG19/ Form: 3/10, Serie: 1/1, Seite: 3 Seitenzählung 3

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 198/360 = 0.55**
lab*tch* und *lab*nch

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

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** 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 1.0 1.0 (1.0)
*cmyn3** 0.0 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 1.0 1.0 (1.0)
*cmyn3** 1.0 0.0 0.0 (0.0)
*olvi4** 0.0 1.0 1.0 1.0
*cmyn4** 1.0 0.0 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 90.93 −21.95 −7.07
*LAB*LABa* 90.93 −21.95 −7.07
*LAB*TCHa* 50.0 23.07 197.87
relative* CIELAB *lab*
*lab*lab* 0.826 −0.951 −0.306
*lab*tch* 0.5 1.0 0.55
*lab*nch* 0.0 1.0 0.55
***relative* Natural Colour (NC)**
*lab*lrj* 0.826 −0.871 −0.488
*lab*tce* 0.5 1.0 0.581
*lab*ncE* 0.0 1.0 g32b

***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 0.5 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 1.0 1.0 (1.0)
*cmyn3** 1.0 0.0 0.0 (0.0)
*olvi4** 0.0 1.0 1.0 1.0
*cmyn4** 1.0 0.0 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 90.93 −21.95 −7.07
*LAB*LABa* 90.93 −21.95 −7.07
*LAB*TCHa* 50.0 23.07 197.87
relative* CIELAB *lab*
*lab*lab* 0.826 −0.951 −0.306
*lab*tch* 0.5 1.0 0.55
*lab*nch* 0.0 1.0 0.55
***relative* Natural Colour (NC)**
*lab*lrj* 0.826 −0.871 −0.488
*lab*tce* 0.5 1.0 0.581
*lab*ncE* 0.0 1.0 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**

0,25 0,50 n^* = 0,50 0,75 1,00

relative Buntheit *c**

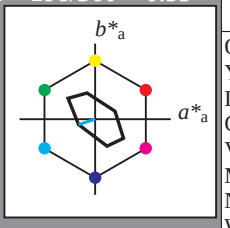
n^* = 1,0

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 198/360 = 0.55**
lab*tch* und *lab*nch

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

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** 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 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 1.0 1.0 (1.0)
*cmyn3** 1.0 0.0 0.0 (0.0)
*olvi4** 0.0 1.0 1.0 1.0
*cmyn4** 1.0 0.0 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 90.93 −21.95 −7.07
*LAB*LABa* 90.93 −21.95 −7.07
*LAB*TCHa* 50.0 23.07 197.87
relative* CIELAB *lab*
*lab*lab* 0.826 −0.951 −0.306
*lab*tch* 0.5 1.0 0.55
*lab*nch* 0.0 1.0 0.55
***relative* Natural Colour (NC)**
*lab*lrj* 0.826 −0.871 −0.488
*lab*tce* 0.5 1.0 0.581
*lab*ncE* 0.0 1.0 g32b

***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 0.5 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**

0,25 0,50 n^* = 0,50 0,75 1,00

relative Buntheit *c**

n^* = 1,0

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)

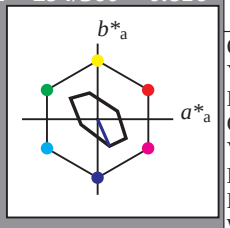
Siehe ähnliche Dateien: http://www.ps.bam.de/OG19/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

BAM-Registrierung: 20060101-OG19/10L/L19G03FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker– oder Monitorsystemen
/OG19/ Form: 4/10. Serie: 1/1, Seite: 4 Seitenz hlung 4

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70
für Buntton $h^* = lab^*h = 294/360 = 0.816$
lab*tch* 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
$g^*_{H,rel} = 34$
$g^*_{C,rel} = 51$

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** 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 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 1.0 (1.0)
*cmyn3** 1.0 1.0 0.0 (0.0)
*olvi4** 0.0 0.0 1.0 1.0
*cmyn4** 1.0 1.0 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 72.1 15.76 −35.62
*LAB*LABa* 72.1 15.76 −35.62
*LAB*TCHa* 50.0 38.96 293.86
relative* CIELAB *lab*
*lab*lab* 0.093 0.404 −0.913
*lab*tch* 0.5 1.0 0.816
*lab*nch* 0.0 1.0 0.816
***relative* Natural Colour (NC)**
*lab*lrj* 0.093 0.301 −0.953
*lab*tce* 0.5 1.0 0.799
*lab*ncE* 0.0 1.0 b19r

***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 0.5 (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

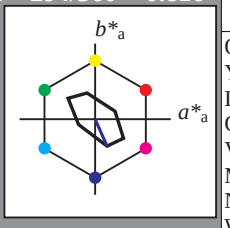
***relative* Inform. Technology (IT)**
*olvi3** 0.0 0.0 0.0 (1.0)
*cmyn3** 1.0 1.0 1.0 (0.0)
*olvi4** 1.0 1.0 1.0 0.0
*cmyn4** 0.0 0.0 0.0 1.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 69.7 0.0 0.0
*LAB*LABa* 69.7 0.0 0.0
*LAB*TCHa* 0.01 0.0 –
relative* CIELAB *lab*
*lab*lab* 0.0 0.0 0.0
*lab*tch* 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^*
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
relative Buntheit c^*
$n^* = 1{,}0$

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70
für Buntton $h^* = lab^*h = 294/360 = 0.816$
lab*tch* 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
$g^*_{H,rel} = 34$
$g^*_{C,rel} = 51$

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** 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 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 1.0 (1.0)
*cmyn3** 1.0 1.0 0.0 (0.0)
*olvi4** 0.0 0.0 1.0 1.0
*cmyn4** 1.0 1.0 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 72.1 15.76 −35.62
*LAB*LABa* 72.1 15.76 −35.62
*LAB*TCHa* 50.0 38.96 293.86
relative* CIELAB *lab*
*lab*lab* 0.093 0.404 −0.913
*lab*tch* 0.5 1.0 0.816
*lab*nch* 0.0 1.0 0.816
***relative* Natural Colour (NC)**
*lab*lrj* 0.093 0.301 −0.953
*lab*tce* 0.5 1.0 0.799
*lab*ncE* 0.0 1.0 b19r

***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 0.5 (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^*
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
relative Buntheit c^*
$n^* = 1{,}0$

OG190−7, 3 stufige Reihen für konstanten CIELAB Buntton 294/360 = 0.816 (links)
3 stufige Reihen für konstanten CIELAB Buntton 294/360 = 0.816 (rechts)

BAM-Prüfvorlage OG19; Farbmetrik-Systeme TLS70 & TLS70 input: *cmy0* setcmykcolor*
D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Bunttöne output: *cmy0* / 000n* setcmykcolor*

Siehe ähnliche Dateien: http://www.ps.bam.de/OG19/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

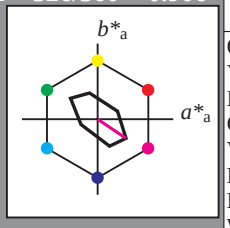
BAM-Registrierung: 20060101-OG19/10L/L19G04FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker– oder Monitorsystemen
/OG19/ Form: 5/10. Serie: 1/1, Seite: 5 Seitenz hlung 5

Eingabe: Farbmetrisches 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^*



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

%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** 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** 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 0.5 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** 0.5 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

***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 –

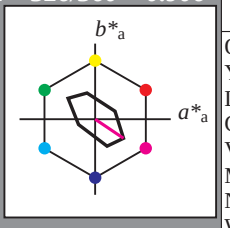
$n^* = 0{,}00$
Schwarzheit n^*
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
relative Buntheit c^*
$n^* = 1{,}0$

Ausgabe: Farbmetrisches 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^*



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

%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** 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** 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 0.5 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** 0.5 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

***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^*
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
relative Buntheit c^*
$n^* = 1{,}0$

OG190−7, 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; Farbmetrik-Systeme TLS70 & TLS70 input: *cmy0* setcmykcolor*
D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Bunttöne output: *cmy0* / 000n* setcmykcolor*

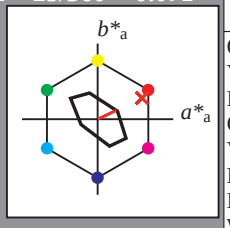
Siehe ähnliche Dateien: http://www.ps.bam.de/OG19/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

BAM-Registrierung: 20060101-OG19/10L/L19G05FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker– oder Monitorsystemen
/OG19/ Form: 6/10. Serie: 1/1, Seite: 6 Seitenz hlung 6

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70
für Buntton *h = lab*h = 25/360 = 0.071***
lab*tch* und *lab*nch

D65: Buntton R
LCH*Ma: 77 27 25
olv*Ma: 1.0 0.05 0.0

Dreiecks-Helligkeit *t**



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

%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** 1.0 0.523 0.5 (1.0)
*cmyn3** 0.0 0.477 0.5 (0.0)
*olvi4** 1.0 0.523 0.5 1.0
*cmyn4** 0.0 0.477 0.5 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 86.33 12.27 5.85
*LAB*LABa* 86.33 12.27 5.85
*LAB*TCHa* 75.0 13.59 25.48
relative* CIELAB *lab*
*lab*lab* 0.647 0.451 0.215
*lab*tch* 0.75 0.5 0.071
*lab*nch* 0.0 0.5 0.071
***relative* Natural Colour (NC)**
*lab*lrj* 0.647 0.5 0.0
*lab*tce* 0.75 0.5 0.0
*lab*ncE* 0.0 0.5 r00j

***relative* Inform. Technology (IT)**
*olvi3** 0.5 0.023 0.0 (1.0)
*cmyn3** 0.5 0.977 1.0 (0.0)
*olvi4** 1.0 0.523 0.5 0.5
*cmyn4** 0.0 0.477 0.5 0.5
***standard* and *adapted* CIELAB**
*LAB*LAB* 73.47 12.27 5.84
*LAB*LABa* 73.47 12.27 5.84
*LAB*TCHa* 25.01 13.59 25.46
relative* CIELAB *lab*
*lab*lab* 0.147 0.451 0.215
*lab*tch* 0.25 0.5 0.071
*lab*nch* 0.5 0.5 0.071
***relative* Natural Colour (NC)**
*lab*lrj* 0.147 0.5 0.0
*lab*tce* 0.25 0.5 1.0
*lab*ncE* 0.5 0.5 b99r

***relative* Inform. Technology (IT)**
*olvi3** 1.0 0.047 0.0 (1.0)
*cmyn3** 0.0 0.953 1.0 (0.0)
*olvi4** 1.0 0.047 0.0 1.0
*cmyn4** 0.0 0.953 1.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 77.25 24.54 11.69
*LAB*LABa* 77.25 24.54 11.69
*LAB*TCHa* 50.0 27.18 25.47
relative* CIELAB *lab*
*lab*lab* 0.294 0.903 0.43
*lab*tch* 0.5 1.0 0.071
*lab*nch* 0.0 1.0 0.071
***relative* Natural Colour (NC)**
*lab*lrj* 0.294 1.0 0.0
*lab*tce* 0.5 1.0 1.0
*lab*ncE* 0.0 1.0 b99r

***n** = 0,00*

Schwarzheit *n**

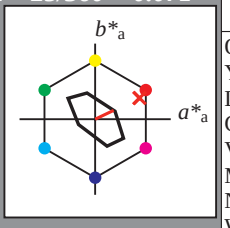
0,25 0,50 ***n** = 0,50* 0,75 1,00

relative Buntheit *c**

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70
für Buntton *h = lab*h = 25/360 = 0.071***
lab*tch* und *lab*nch

D65: Buntton R
LCH*Ma: 77 27 25
olv*Ma: 1.0 0.05 0.0

Dreiecks-Helligkeit *t**



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

%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** 1.0 0.523 0.5 (1.0)
*cmyn3** 0.0 0.477 0.5 (0.0)
*olvi4** 1.0 0.523 0.5 1.0
*cmyn4** 0.0 0.477 0.5 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 86.33 12.27 5.85
*LAB*LABa* 86.33 12.27 5.85
*LAB*TCHa* 75.0 13.59 25.48
relative* CIELAB *lab*
*lab*lab* 0.647 0.451 0.215
*lab*tch* 0.75 0.5 0.071
*lab*nch* 0.0 0.5 0.071
***relative* Natural Colour (NC)**
*lab*lrj* 0.647 0.5 0.0
*lab*tce* 0.75 0.5 0.0
*lab*ncE* 0.0 0.5 r00j

***relative* Inform. Technology (IT)**
*olvi3** 0.5 0.023 0.0 (1.0)
*cmyn3** 0.5 0.977 1.0 (0.0)
*olvi4** 1.0 0.523 0.5 0.5
*cmyn4** 0.0 0.477 0.5 0.5
***standard* and *adapted* CIELAB**
*LAB*LAB* 73.47 12.27 5.84
*LAB*LABa* 73.47 12.27 5.84
*LAB*TCHa* 25.01 13.59 25.46
relative* CIELAB *lab*
*lab*lab* 0.147 0.451 0.215
*lab*tch* 0.25 0.5 0.071
*lab*nch* 0.5 0.5 0.071
***relative* Natural Colour (NC)**
*lab*lrj* 0.147 0.5 0.0
*lab*tce* 0.25 0.5 1.0
*lab*ncE* 0.5 0.5 b99r

***relative* Inform. Technology (IT)**
*olvi3** 1.0 0.047 0.0 (1.0)
*cmyn3** 0.0 0.953 1.0 (0.0)
*olvi4** 1.0 0.047 0.0 1.0
*cmyn4** 0.0 0.953 1.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 77.25 24.54 11.69
*LAB*LABa* 77.25 24.54 11.69
*LAB*TCHa* 50.0 27.18 25.47
relative* CIELAB *lab*
*lab*lab* 0.294 0.903 0.43
*lab*tch* 0.5 1.0 0.071
*lab*nch* 0.0 1.0 0.071
***relative* Natural Colour (NC)**
*lab*lrj* 0.294 1.0 0.0
*lab*tce* 0.5 1.0 1.0
*lab*ncE* 0.0 1.0 b99r

***n** = 0,00*

Schwarzheit *n**

0,25 0,50 ***n** = 0,50* 0,75 1,00

relative Buntheit *c**

OG190−7, 3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)

3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (rechts)

Siehe ähnliche Dateien: http://www.ps.bam.de/OG19/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

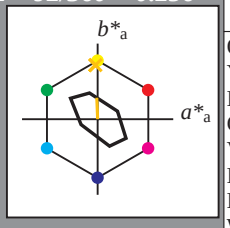
BAM-Registrierung: 20060101-OG19/10L/L19G06FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker– oder Monitorsystemen
/OG19/ Forms: 7/10. Serie: 1/1, Seite: 7 Seitenz hlung 7

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

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

D65: Buntton J
LCH*Ma: 89 28 92
olv*Ma: 1.0 0.74 0.0

Dreiecks-Helligkeit t^*



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

%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** 1.0 0.87 0.5 (1.0)
*cmyn3** 0.0 0.13 0.5 (0.0)
*olvi4** 1.0 0.87 0.5 1.0
*cmyn4** 0.0 0.13 0.5 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 92.4 −0.57 14.19
*LAB*LABa* 92.4 −0.57 14.19
*LAB*TCHa* 75.0 14.2 92.32
relative* CIELAB *lab*
*lab*lab* 0.883 −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*lrj* 0.883 0.0 0.5
*lab*tce* 0.75 0.5 0.25
*lab*ncE* 0.0 0.5 j00g

***relative* Inform. Technology (IT)**
*olvi3** 1.0 0.74 0.0 (1.0)
*cmyn3** 0.0 0.26 1.0 (0.0)
*olvi4** 1.0 0.74 0.0 1.0
*cmyn4** 0.0 0.26 1.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 89.38 −1.14 28.37
*LAB*LABa* 89.38 −1.14 28.37
*LAB*TCHa* 50.0 28.4 92.32
relative* CIELAB *lab*
*lab*lab* 0.766 −0.039 0.999
*lab*tch* 0.5 1.0 0.256
*lab*nch* 0.0 1.0 0.256
***relative* Natural Colour (NC)**
*lab*lrj* 0.766 0.0 1.0
*lab*tce* 0.5 1.0 0.25
*lab*ncE* 0.0 1.0 j00g

***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** 0.5 0.37 0.0 (1.0)
*cmyn3** 0.5 0.63 1.0 (0.0)
*olvi4** 1.0 0.87 0.5 0.5
*cmyn4** 0.0 0.13 0.5 0.5
***standard* and *adapted* CIELAB**
*LAB*LAB* 79.54 −0.56 14.19
*LAB*LABa* 79.54 −0.56 14.19
*LAB*TCHa* 25.01 14.2 92.31
relative* CIELAB *lab*
*lab*lab* 0.383 −0.019 0.499
*lab*tch* 0.25 0.5 0.256
*lab*nch* 0.5 0.5 0.256
***relative* Natural Colour (NC)**
*lab*lrj* 0.383 0.0 0.5
*lab*tce* 0.25 0.5 0.25
*lab*ncE* 0.5 0.5 r99j

***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^*
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
relative Buntheit c^*
$n^* = 1{,}0$

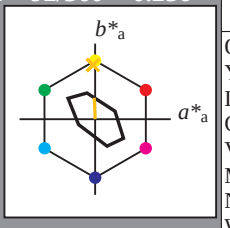
OG190−7, 3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

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

D65: Buntton J
LCH*Ma: 89 28 92
olv*Ma: 1.0 0.74 0.0

Dreiecks-Helligkeit t^*



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

%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** 1.0 0.87 0.5 (1.0)
*cmyn3** 0.0 0.13 0.5 (0.0)
*olvi4** 1.0 0.87 0.5 1.0
*cmyn4** 0.0 0.13 0.5 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 92.4 −0.57 14.19
*LAB*LABa* 92.4 −0.57 14.19
*LAB*TCHa* 75.0 14.2 92.32
relative* CIELAB *lab*
*lab*lab* 0.883 −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*lrj* 0.883 0.0 0.5
*lab*tce* 0.75 0.5 0.25
*lab*ncE* 0.0 0.5 j00g

***relative* Inform. Technology (IT)**
*olvi3** 1.0 0.74 0.0 (1.0)
*cmyn3** 0.0 0.26 1.0 (0.0)
*olvi4** 1.0 0.74 0.0 1.0
*cmyn4** 0.0 0.26 1.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 89.38 −1.14 28.37
*LAB*LABa* 89.38 −1.14 28.37
*LAB*TCHa* 50.0 28.4 92.32
relative* CIELAB *lab*
*lab*lab* 0.766 −0.039 0.999
*lab*tch* 0.5 1.0 0.256
*lab*nch* 0.0 1.0 0.256
***relative* Natural Colour (NC)**
*lab*lrj* 0.766 0.0 1.0
*lab*tce* 0.5 1.0 0.25
*lab*ncE* 0.0 1.0 j00g

***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** 0.5 0.37 0.0 (1.0)
*cmyn3** 0.5 0.63 1.0 (0.0)
*olvi4** 1.0 0.87 0.5 0.5
*cmyn4** 0.0 0.13 0.5 0.5
***standard* and *adapted* CIELAB**
*LAB*LAB* 79.54 −0.56 14.19
*LAB*LABa* 79.54 −0.56 14.19
*LAB*TCHa* 25.01 14.2 92.31
relative* CIELAB *lab*
*lab*lab* 0.383 −0.019 0.499
*lab*tch* 0.25 0.5 0.256
*lab*nch* 0.5 0.5 0.256
***relative* Natural Colour (NC)**
*lab*lrj* 0.383 0.0 0.5
*lab*tce* 0.25 0.5 0.25
*lab*ncE* 0.5 0.5 r99j

***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^*
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
relative Buntheit c^*
$n^* = 1{,}0$

3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (rechts)

Siehe ähnliche Dateien: http://www.ps.bam.de/OG19/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

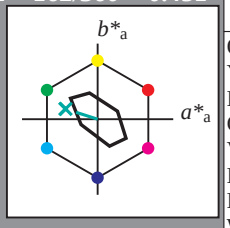
BAM-Registrierung: 20060101-OG19/10L/L19G07FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker– oder Monitorsystemen
/OG19/ Form: 8/10. Serie: 1/1, Seite: 8 Seitenz hlung 8

BAM-Prüfvorlage OG19; Farbmetrik-Systeme TLS70 & TLS70 input: *cmy0* setcmykcolor*
D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Buntton output: *cmy0* / 000n* setcmykcolor*

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70
für Buntton *h = lab*h = 162/360 = 0.451***
lab*tch* und *lab*nch

D65: Buntton G
LCH*Ma: 90 30 162
olv*Ma: 0.0 1.0 0.53

Dreiecks-Helligkeit *t**



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

%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 1.0 0.767 (1.0)
*cmyn3** 0.5 0.0 0.233 (0.0)
*olvi4** 0.5 1.0 0.767 1.0
*cmyn4** 0.5 0.0 0.233 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 92.79 −14.2 4.55
*LAB*LABa* 92.79 −14.2 4.55
*LAB*TCHa* 75.0 14.92 162.23
relative* CIELAB *lab*
*lab*lab* 0.898 −0.475 0.153
*lab*tch* 0.75 0.5 0.451
*lab*nch* 0.0 0.5 0.451
***relative* Natural Colour (NC)**
*lab*lrj* 0.898 −0.499 0.0
*lab*tce* 0.75 0.5 0.5
*lab*ncE* 0.0 0.5 g00b

***relative* Inform. Technology (IT)**
*olvi3** 0.0 1.0 0.534 (1.0)
*cmyn3** 1.0 0.0 0.466 (0.0)
*olvi4** 0.0 1.0 0.534 1.0
*cmyn4** 1.0 0.0 0.466 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 90.18 −28.4 9.11
*LAB*LABa* 90.18 −28.4 9.11
*LAB*TCHa* 50.0 29.84 162.22
relative* CIELAB *lab*
*lab*lab* 0.796 −0.951 0.305
*lab*tch* 0.5 1.0 0.451
*lab*nch* 0.0 1.0 0.451
***relative* Natural Colour (NC)**
*lab*lrj* 0.796 −0.999 0.0
*lab*tce* 0.5 1.0 0.5
*lab*ncE* 0.0 1.0 g00b

***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 0.5 0.267 (1.0)
*cmyn3** 1.0 0.5 0.733 (0.0)
*olvi4** 0.5 1.0 0.767 0.5
*cmyn4** 0.5 0.0 0.233 0.5
***standard* and *adapted* CIELAB**
*LAB*LAB* 79.94 −14.2 4.56
*LAB*LABa* 79.94 −14.2 4.56
*LAB*TCHa* 25.01 14.92 162.22
relative* CIELAB *lab*
*lab*lab* 0.398 −0.475 0.153
*lab*tch* 0.25 0.5 0.451
*lab*nch* 0.5 0.5 0.451
***relative* Natural Colour (NC)**
*lab*lrj* 0.398 −0.499 0.0
*lab*tce* 0.25 0.5 0.5
*lab*ncE* 0.5 0.5 j99g

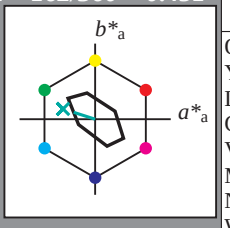
***relative* Inform. Technology (IT)**
*olvi3** 0.0 0.0 0.0 (1.0)
*cmyn3** 1.0 1.0 1.0 (0.0)
*olvi4** 1.0 1.0 1.0 0.0
*cmyn4** 0.0 0.0 0.0 1.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 69.7 0.0 0.0
*LAB*LABa* 69.7 0.0 0.0
*LAB*TCHa* 0.01 0.0 –
relative* CIELAB *lab*
*lab*lab* 0.0 0.0 0.0
*lab*tch* 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**
*n** = 1,0
0,25 0,50 *n** = 0,50 0,75 1,00
relative Buntheit *c**

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70
für Buntton *h = lab*h = 162/360 = 0.451***
lab*tch* und *lab*nch

D65: Buntton G
LCH*Ma: 90 30 162
olv*Ma: 0.0 1.0 0.53

Dreiecks-Helligkeit *t**



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

%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 1.0 0.767 (1.0)
*cmyn3** 0.5 0.0 0.233 (0.0)
*olvi4** 0.5 1.0 0.767 1.0
*cmyn4** 0.5 0.0 0.233 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 92.79 −14.2 4.55
*LAB*LABa* 92.79 −14.2 4.55
*LAB*TCHa* 75.0 14.92 162.23
relative* CIELAB *lab*
*lab*lab* 0.898 −0.475 0.153
*lab*tch* 0.75 0.5 0.451
*lab*nch* 0.0 0.5 0.451
***relative* Natural Colour (NC)**
*lab*lrj* 0.898 −0.499 0.0
*lab*tce* 0.75 0.5 0.5
*lab*ncE* 0.0 0.5 g00b

***relative* Inform. Technology (IT)**
*olvi3** 0.0 1.0 0.534 (1.0)
*cmyn3** 1.0 0.0 0.466 (0.0)
*olvi4** 0.0 1.0 0.534 1.0
*cmyn4** 1.0 0.0 0.466 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 90.18 −28.4 9.11
*LAB*LABa* 90.18 −28.4 9.11
*LAB*TCHa* 50.0 29.84 162.22
relative* CIELAB *lab*
*lab*lab* 0.796 −0.951 0.305
*lab*tch* 0.5 1.0 0.451
*lab*nch* 0.0 1.0 0.451
***relative* Natural Colour (NC)**
*lab*lrj* 0.796 −0.999 0.0
*lab*tce* 0.5 1.0 0.5
*lab*ncE* 0.0 1.0 g00b

***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 0.5 0.267 (1.0)
*cmyn3** 1.0 0.5 0.733 (0.0)
*olvi4** 0.5 1.0 0.767 0.5
*cmyn4** 0.5 0.0 0.233 0.5
***standard* and *adapted* CIELAB**
*LAB*LAB* 79.94 −14.2 4.56
*LAB*LABa* 79.94 −14.2 4.56
*LAB*TCHa* 25.01 14.92 162.22
relative* CIELAB *lab*
*lab*lab* 0.398 −0.475 0.153
*lab*tch* 0.25 0.5 0.451
*lab*nch* 0.5 0.5 0.451
***relative* Natural Colour (NC)**
*lab*lrj* 0.398 −0.499 0.0
*lab*tce* 0.25 0.5 0.5
*lab*ncE* 0.5 0.5 j99g

***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**
*n** = 1,0
0,25 0,50 *n** = 0,50 0,75 1,00
relative Buntheit *c**

OG190−7, 3 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)
3 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (rechts)

BAM-Prüfvorlage OG19; Farbmetrik-Systeme TLS70 & TLS70 input: *cmy0* setcmykcolor*
D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Bunttöne output: *cmy0* / 000n* setcmykcolor*

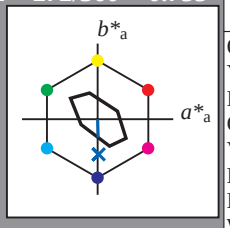
Siehe ähnliche Dateien: http://www.ps.bam.de/OG19/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

BAM-Registrierung: 20060101-OG19/10L/L19G08FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker– oder Monitorsystemen
/OG19/ Form: 9/10. Serie: 1/1, Seite: 9 Seitenz hlung 9

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70
für Buntton $h^* = lab^*h = 272/360 = 0.755$
lab*tch* und *lab*nch

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

Dreiecks-Helligkeit t^*



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

%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 0.699 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*nch* 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 g99b

***relative* Inform. Technology (IT)**
*olvi3** 0.0 0.398 1.0 (1.0)
*cmyn3** 1.0 0.602 0.0 (0.0)
*olvi4** 0.0 0.398 1.0 1.0
*cmyn4** 1.0 0.602 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 79.6 0.74 −24.25
*LAB*LABa* 79.6 0.74 −24.25
*LAB*TCHa* 50.0 24.27 271.74
relative* CIELAB *lab*
*lab*lab* 0.385 0.03 −0.998
*lab*tch* 0.5 1.0 0.755
*lab*nch* 0.0 1.0 0.755
***relative* Natural Colour (NC)**
*lab*lrj* 0.385 0.0 −0.999
*lab*tce* 0.5 1.0 0.75
*lab*ncE* 0.0 1.0 b00r

***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 0.199 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*nch* 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 b00r

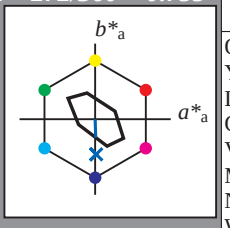
***relative* Inform. Technology (IT)**
*olvi3** 0.0 0.0 0.0 (1.0)
*cmyn3** 1.0 1.0 1.0 (0.0)
*olvi4** 1.0 1.0 1.0 0.0
*cmyn4** 0.0 0.0 0.0 1.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 69.7 0.0 0.0
*LAB*LABa* 69.7 0.0 0.0
*LAB*TCHa* 0.01 0.0 –
relative* CIELAB *lab*
*lab*lab* 0.0 0.0 0.0
*lab*tch* 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^*
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
relative Buntheit c^*
$n^* = 1{,}0$

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70
für Buntton $h^* = lab^*h = 272/360 = 0.755$
lab*tch* und *lab*nch

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

Dreiecks-Helligkeit t^*



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
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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

%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 0.699 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*nch* 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 g99b

***relative* Inform. Technology (IT)**
*olvi3** 0.0 0.398 1.0 (1.0)
*cmyn3** 1.0 0.602 0.0 (0.0)
*olvi4** 0.0 0.398 1.0 1.0
*cmyn4** 1.0 0.602 0.0 0.0
***standard* and *adapted* CIELAB**
*LAB*LAB* 79.6 0.74 −24.25
*LAB*LABa* 79.6 0.74 −24.25
*LAB*TCHa* 50.0 24.27 271.74
relative* CIELAB *lab*
*lab*lab* 0.385 0.03 −0.998
*lab*tch* 0.5 1.0 0.755
*lab*nch* 0.0 1.0 0.755
***relative* Natural Colour (NC)**
*lab*lrj* 0.385 0.0 −0.999
*lab*tce* 0.5 1.0 0.75
*lab*ncE* 0.0 1.0 b00r

***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 0.199 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*nch* 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 b00r

***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^*
0,25 0,50 $n^* = 0{,}50$ 0,75 1,00
relative Buntheit c^*
$n^* = 1{,}0$

OG190−7, 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; Farbmetrik-Systeme TLS70 & TLS70 input: *cmy0* setcmykcolor*
D65: 2 Koordinatendaten von 3stufigen Farbreihen für 10 Buntton output: *cmy0* / 000n* setcmykcolor*

Siehe ähnliche Dateien: http://www.ps.bam.de/OG19/
Technische Information: http://www.ps.bam.de Version 2.1, io=0,0, CIELAB

BAM-Registrierung: 20060101-OG19/10L/L19G09FP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker– oder Monitorsystemen
/OG19/ Form: 10/10Serie: 1/1, Seite: 10 Seitenz hlung 10