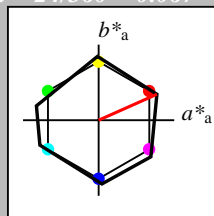


Eingabe: Farbmétrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 24/360 = 0.067$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton R  
 LCH\*Ma: 53 84 24  
 olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



**NRS11; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

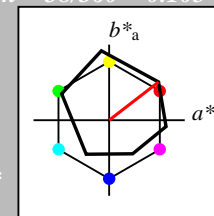
%Umfang  
 $u^*_{rel} = 119$   
 %Regularität  
 $g^*_{H,rel} = 47$   
 $g^*_{C,rel} = 100$

Ausgabe: Farbmétrisches Reflexions-System ORS18

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

D65: Buntton O  
 LCH\*Ma: 48 83 38  
 olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



**ORS18; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Umfang  
 $u^*_{rel} = 93$   
 %Regularität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

**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**  
 $LAB^*LAB = 95.41 \ -0.97 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

**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**  
 $LAB^*LAB = 56.71 \ -0.23 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

**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**  
 $LAB^*LAB = 18.02 \ 0.5 \ -0.46$   
 $LAB^*LABa = 18.02 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

**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**  
 $LAB^*LAB = 71.67 \ 32.15 \ 28.41$   
 $LAB^*LABa = 71.67 \ 32.68 \ 25.25$   
 $LAB^*TCHa = 75.0 \ 41.3 \ 37.7$

**relative CIELAB lab\***  
 $lab^*lab = 0.693 \ 0.396 \ 0.306$   
 $lab^*tch = 0.75 \ 0.5 \ 0.105$   
 $lab^*nch = 0.0 \ 0.5 \ 0.105$

**relative Natural Colour (NC)**  
 $lab^*lrj = 0.693 \ 0.477 \ 0.15$   
 $lab^*tce = 0.75 \ 0.5 \ 0.048$   
 $lab^*nce = 0.0 \ 0.5 \ r19j$

**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**  
 $LAB^*LAB = 32.98 \ 32.9 \ 25.8$   
 $LAB^*LABa = 32.98 \ 32.68 \ 25.25$   
 $LAB^*TCHa = 25.01 \ 41.3 \ 37.7$

**relative CIELAB lab\***  
 $lab^*lab = 0.193 \ 0.396 \ 0.306$   
 $lab^*tch = 0.25 \ 0.5 \ 0.105$   
 $lab^*nch = 0.5 \ 0.5 \ 0.105$

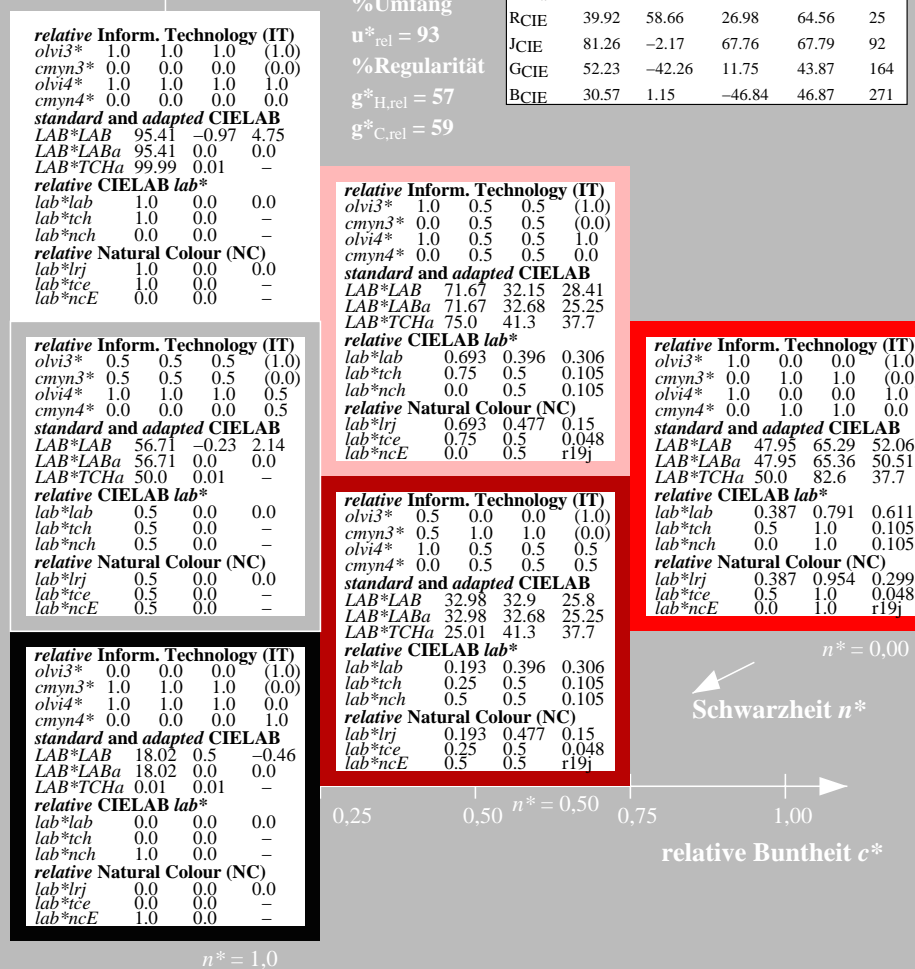
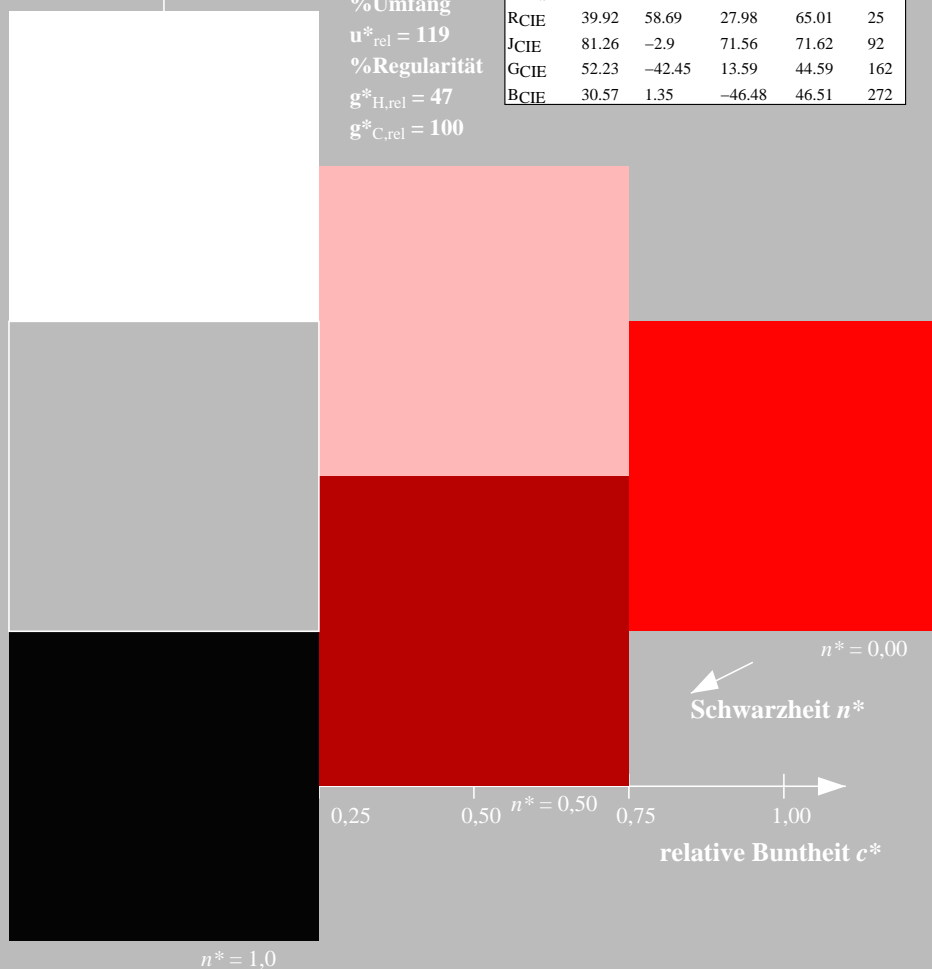
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.193 \ 0.477 \ 0.15$   
 $lab^*tce = 0.25 \ 0.5 \ 0.048$   
 $lab^*nce = 0.5 \ 0.5 \ r19j$

**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**  
 $LAB^*LAB = 47.95 \ 65.29 \ 52.06$   
 $LAB^*LABa = 47.95 \ 65.36 \ 50.51$   
 $LAB^*TCHa = 50.0 \ 82.6 \ 37.7$

**relative CIELAB lab\***  
 $lab^*lab = 0.387 \ 0.791 \ 0.611$   
 $lab^*tch = 0.5 \ 1.0 \ 0.105$   
 $lab^*nch = 0.0 \ 1.0 \ 0.105$

**relative Natural Colour (NC)**  
 $lab^*lrj = 0.387 \ 0.954 \ 0.299$   
 $lab^*tce = 0.5 \ 1.0 \ 0.048$   
 $lab^*nce = 0.0 \ 1.0 \ r19j$



Siehe ähnliche Dateien: <http://www.ps.bam.de/TG07/>  
 Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1, CIEXYZ

BAM-Registrierung: 20060101-TG07/10Q/Q07G00FP.PS/.PDF BAM-Material: Code=rh4ta  
 Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen, Yr=2.5, XYZ  
 /TG07/ Form 1/10, Serie: 1/1, Seite: 1 Seite/hung 1

TG070-7, 3 stufige Reihen für konstanten CIELAB Buntton 24/360 = 0.067 (links)

3 stufige Reihen für konstanten CIELAB Buntton 38/360 = 0.105 (rechts)

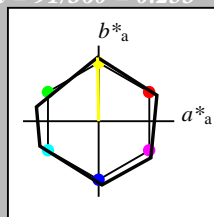
BAM-Prüfvorlage TG07; Farbmétrik-Systeme NRS11 & ORS18 input:  $olv^* \ setrgbcolor$   
 D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput:  $olv^* \ setrgbcolor / w^* \ setgray$

Eingabe: Farbmétrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 91/360 = 0.253$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton J  
 LCH\*Ma: 53 84 91  
 olv\*Ma: 1.0 1.0 0.0

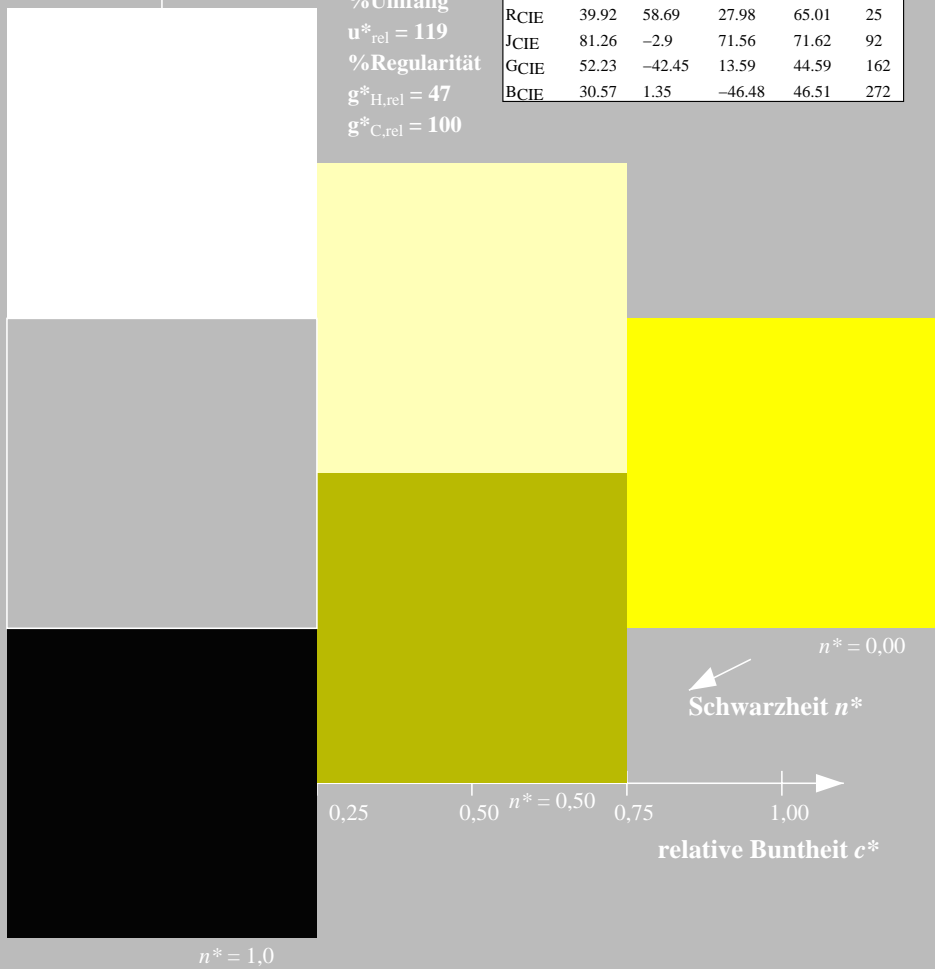
Dreiecks-Helligkeit  $t^*$



**NRS11; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Umfang  
 $u^*_{rel} = 119$   
 %Regularität  
 $g^*_{H,rel} = 47$   
 $g^*_{C,rel} = 100$

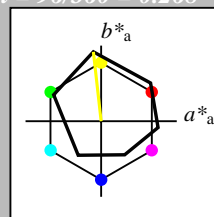


Ausgabe: Farbmétrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 96/360 = 0.268$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton Y  
 LCH\*Ma: 90 92 96  
 olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



**ORS18; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.59	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Umfang  
 $u^*_{rel} = 93$   
 %Regularität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

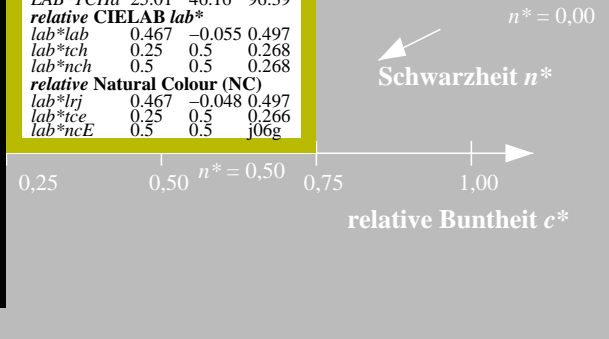
**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 95.41 \ -0.97 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$   
**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)**  
 $olvi3^* = 1.0 \ 1.0 \ 0.5 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.0 \ 0.5 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 0.5 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.5 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 92.88 \ -6.06 \ 50.46$   
 $LAB^*LABa = 92.88 \ -5.13 \ 45.87$   
 $LAB^*TCHa = 75.0 \ 46.16 \ 96.39$   
**relative CIELAB lab\***  
 $lab^*lab = 0.967 \ -0.055 \ 0.497$   
 $lab^*tch = 0.75 \ 0.5 \ 0.268$   
 $lab^*nch = 0.0 \ 0.5 \ 0.268$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.967 \ -0.048 \ 0.497$   
 $lab^*tce = 0.75 \ 0.5 \ 0.266$   
 $lab^*nce = 0.0 \ 0.5 \ j06g$

**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**  
 $LAB^*LAB = 56.71 \ -0.23 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$   
**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)**  
 $olvi3^* = 0.5 \ 0.5 \ 0.0 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.5 \ 1.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 0.5 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.5 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 54.19 \ -5.32 \ 47.85$   
 $LAB^*LABa = 54.19 \ -5.13 \ 45.87$   
 $LAB^*TCHa = 25.01 \ 46.16 \ 96.39$   
**relative CIELAB lab\***  
 $lab^*lab = 0.467 \ -0.055 \ 0.497$   
 $lab^*tch = 0.25 \ 0.5 \ 0.268$   
 $lab^*nch = 0.5 \ 0.5 \ 0.268$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.467 \ -0.048 \ 0.497$   
 $lab^*tce = 0.25 \ 0.5 \ 0.266$   
 $lab^*nce = 0.5 \ 0.5 \ j06g$

**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**  
 $LAB^*LAB = 90.37 \ -11.15 \ 96.17$   
 $LAB^*LABa = 90.37 \ -10.26 \ 91.75$   
 $LAB^*TCHa = 50.0 \ 92.32 \ 96.39$   
**relative CIELAB lab\***  
 $lab^*lab = 0.935 \ -0.11 \ 0.994$   
 $lab^*tch = 0.5 \ 1.0 \ 0.268$   
 $lab^*nch = 0.0 \ 1.0 \ 0.268$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.935 \ -0.097 \ 0.995$   
 $lab^*tce = 0.5 \ 1.0 \ 0.266$   
 $lab^*nce = 0.0 \ 1.0 \ j06g$

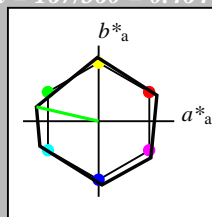


**relative Inform. Technology (IT)**  
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$   
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 18.02 \ 0.5 \ -0.46$   
 $LAB^*LABa = 18.02 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 0.01 \ 0.01 \ -$   
**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)**  
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$   
 $lab^*tce = 0.0 \ 0.0 \ -$   
 $lab^*nce = 1.0 \ 0.0 \ -$

Eingabe: Farbmétrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 167/360 = 0.464$   
 $lab^*tch$  und  $lab^*nch$

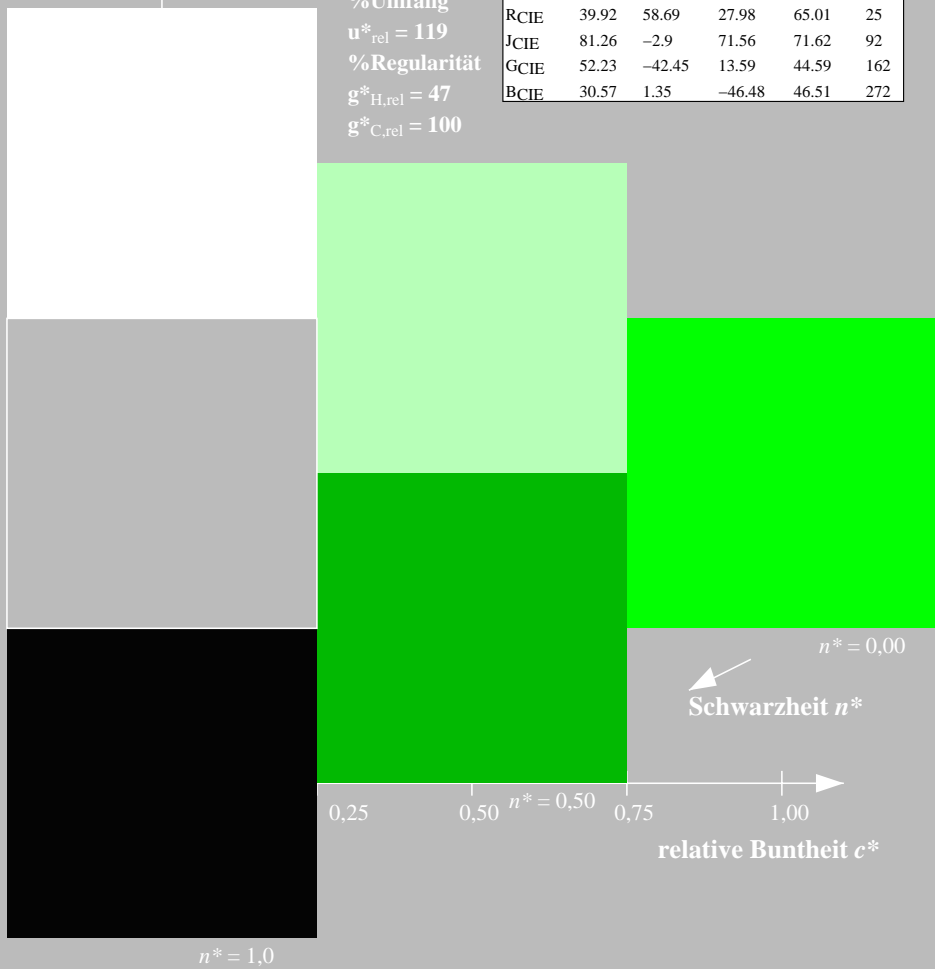
D65: Buntton G  
 LCH\*Ma: 53 84 167  
 olv\*Ma: 0.0 1.0 0.0  
 Dreiecks-Helligkeit  $t^*$



**NRS11; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

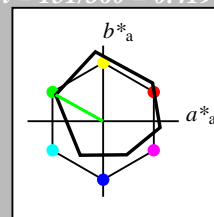
%Umfang  
 $u^*_{rel} = 119$   
 %Regularität  
 $g^*_{H,rel} = 47$   
 $g^*_{C,rel} = 100$



Ausgabe: Farbmétrisches Reflexions-System ORS18

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

D65: Buntton L  
 LCH\*Ma: 51 72 151  
 olv\*Ma: 0.0 1.0 0.0  
 Dreiecks-Helligkeit  $t^*$



**ORS18; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.99	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Umfang  
 $u^*_{rel} = 93$   
 %Regularität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

**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	-0.97	4.75
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

**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	0.5	(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	73.15	-31.94	20.73
LAB*LABa	73.15	-31.38	17.47
LAB*TCHa	75.0	35.93	150.91

**relative CIELAB lab\***

lab*lab	0.712	-0.436	0.243
lab*tch	0.75	0.5	0.419
lab*nch	0.0	0.5	0.419

**relative Natural Colour (NC)**

lab*lrj	0.712	-0.478	0.144
lab*tce	0.75	0.5	0.453
lab*nce	0.0	0.5	j81g

**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	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

**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	0.0	(1.0)
cmyn3*	0.25	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	34.46	-31.2	18.11
LAB*LABa	34.46	-31.38	17.47
LAB*TCHa	25.01	35.93	150.91

**relative CIELAB lab\***

lab*lab	0.213	-0.436	0.243
lab*tch	0.25	0.5	0.419
lab*nch	0.5	0.5	0.419

**relative Natural Colour (NC)**

lab*lrj	0.213	-0.478	0.144
lab*tce	0.25	0.5	0.453
lab*nce	0.5	0.5	j81g

**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**

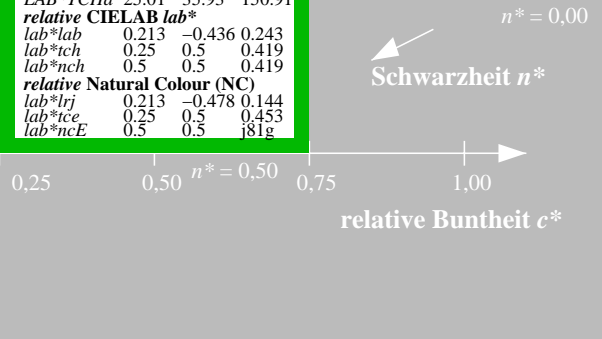
LAB*LAB	18.02	0.5	-0.46
LAB*LABa	18.02	0.0	0.0
LAB*TCHa	0.01	0.01	-

**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	-

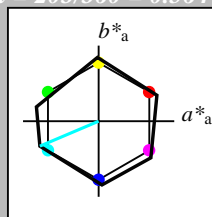


Eingabe: Farbmatisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 203/360 = 0.564$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton G50B  
 LCH\*Ma: 53 84 203  
 olv\*Ma: 0.0 1.0 1.0

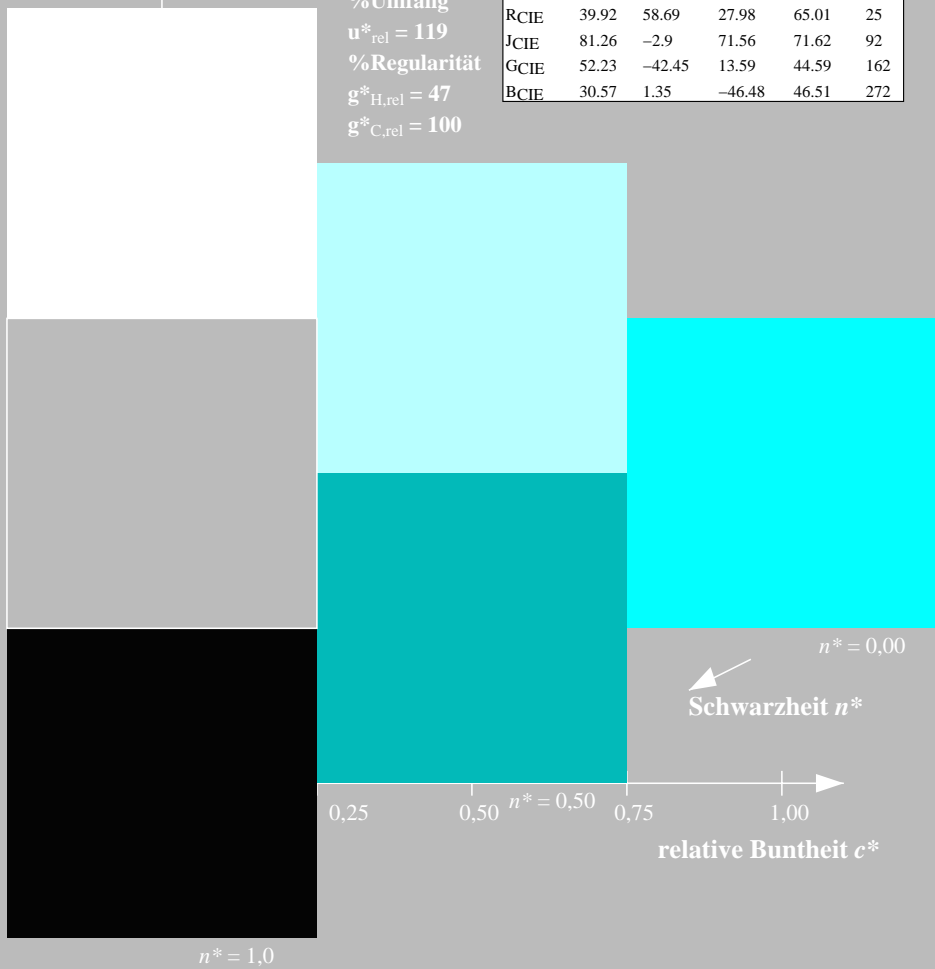
Dreiecks-Helligkeit  $t^*$



**NRS11; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Umfang  
 $u^*_{rel} = 119$   
 %Regularität  
 $g^*_{H,rel} = 47$   
 $g^*_{C,rel} = 100$

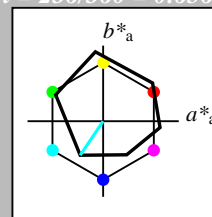


Ausgabe: Farbmatisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 236/360 = 0.656$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton C  
 LCH\*Ma: 59 54 236  
 olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



**ORS18; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Umfang  
 $u^*_{rel} = 93$   
 %Regularität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

**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	-0.97	4.75
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

**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	77.01	-15.79	-18.98
LAB*LABa	77.01	-15.16	-22.5
LAB*TCHa	75.0	27.15	236.01

**relative CIELAB lab\***

lab*lab	0.762	-0.278	-0.413
lab*tch	0.75	0.5	0.656
lab*nch	0.0	0.5	0.656

**relative Natural Colour (NC)**

lab*lrj	0.762	-0.247	-0.433
lab*tce	0.75	0.5	0.667
lab*nce	0.0	0.5	g66b

**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	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

**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	38.32	-15.05	-21.59
LAB*LABa	38.32	-15.16	-22.5
LAB*TCHa	25.01	27.15	236.01

**relative CIELAB lab\***

lab*lab	0.262	-0.278	-0.413
lab*tch	0.25	0.5	0.656
lab*nch	0.5	0.5	0.656

**relative Natural Colour (NC)**

lab*lrj	0.262	-0.247	-0.433
lab*tce	0.25	0.5	0.667
lab*nce	0.5	0.5	g66b

**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**

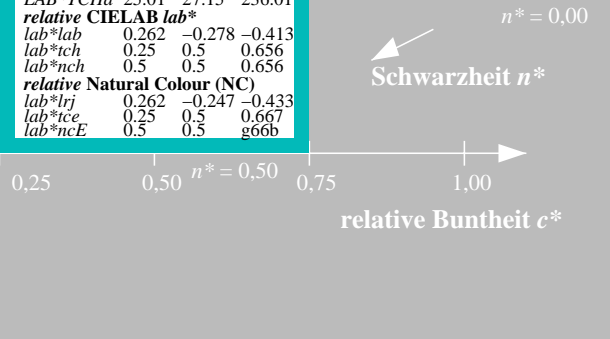
LAB*LAB	58.62	-30.62	-42.73
LAB*LABa	58.62	-30.34	-45.01
LAB*TCHa	50.0	54.29	236.01

**relative CIELAB lab\***

lab*lab	0.525	-0.558	-0.828
lab*tch	0.5	1.0	0.656
lab*nch	0.0	1.0	0.656

**relative Natural Colour (NC)**

lab*lrj	0.525	-0.496	-0.867
lab*tce	0.5	1.0	0.667
lab*nce	0.0	1.0	g66b

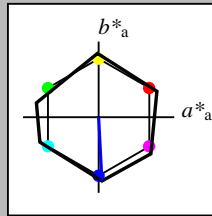


Eingabe: Farbmétrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 273/360 = 0.758$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton B  
 LCH\*Ma: 53 84 273  
 olv\*Ma: 0.0 0.0 1.0

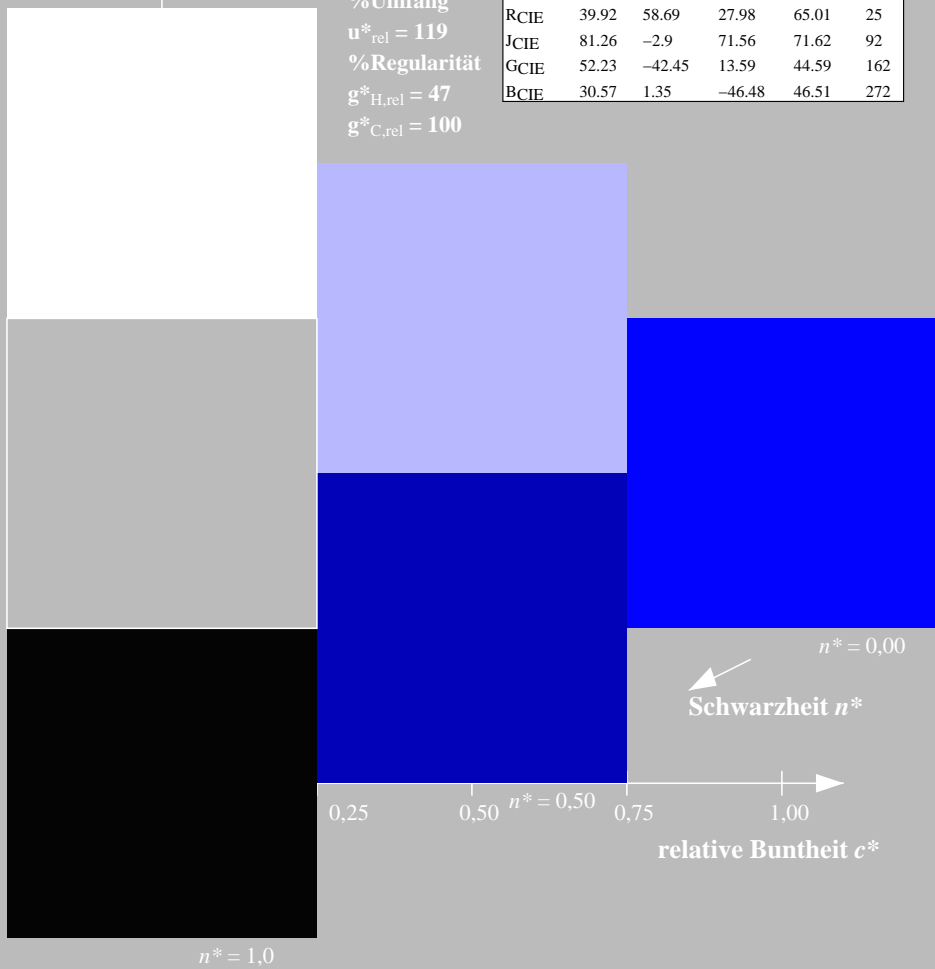
Dreiecks-Helligkeit  $t^*$



**NRS11; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Umfang  
 $u^*_{rel} = 119$   
 %Regularität  
 $g^*_{H,rel} = 47$   
 $g^*_{C,rel} = 100$

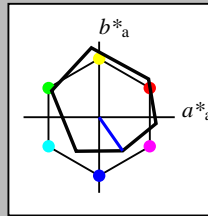


Ausgabe: Farbmétrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 305/360 = 0.847$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton V  
 LCH\*Ma: 26 54 305  
 olv\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



**ORS18; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Umfang  
 $u^*_{rel} = 93$   
 %Regularität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

**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**  
 $LAB^*LAB = 95.41 \ -0.97 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

**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**  
 $LAB^*LAB = 56.71 \ -0.23 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

**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**  
 $LAB^*LAB = 18.02 \ 0.5 \ -0.46$   
 $LAB^*LABa = 18.02 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

**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)**  
 $olvi3^* = 0.5 \ 0.5 \ 1.0 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.5 \ 0.0 \ (0.0)$   
 $olvi4^* = 0.5 \ 0.5 \ 1.0 \ 1.0$   
 $cmyn4^* = 0.5 \ 0.5 \ 0.0 \ 0.0$

**standard and adapted CIELAB**  
 $LAB^*LAB = 60.56 \ 15.24 \ -19.79$   
 $LAB^*LABa = 60.56 \ 15.55 \ -22.2$   
 $LAB^*TCHa = 75.0 \ 27.11 \ 305.0$

**relative CIELAB lab\***  
 $lab^*lab = 0.55 \ 0.287 \ -0.408$   
 $lab^*tch = 0.75 \ 0.5 \ 0.847$   
 $lab^*nch = 0.0 \ 0.5 \ 0.847$

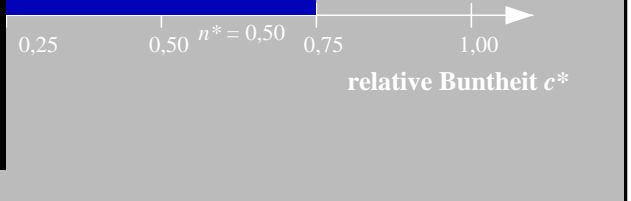
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.55 \ 0.225 \ -0.446$   
 $lab^*tce = 0.75 \ 0.5 \ 0.824$   
 $lab^*nce = 0.0 \ 0.5 \ b29r$

**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**  
 $LAB^*LAB = 21.87 \ 15.98 \ -22.4$   
 $LAB^*LABa = 21.87 \ 15.55 \ -22.2$   
 $LAB^*TCHa = 25.01 \ 27.11 \ 305.0$

**relative CIELAB lab\***  
 $lab^*lab = 0.05 \ 0.287 \ -0.408$   
 $lab^*tch = 0.25 \ 0.5 \ 0.847$   
 $lab^*nch = 0.5 \ 0.5 \ 0.847$

**relative Natural Colour (NC)**  
 $lab^*lrj = 0.05 \ 0.225 \ -0.446$   
 $lab^*tce = 0.25 \ 0.5 \ 0.824$   
 $lab^*nce = 0.5 \ 0.5 \ b29r$



TG070-7, 3 stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.758 (links)

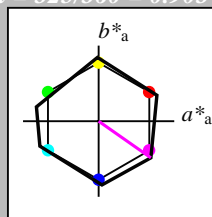
3 stufige Reihen für konstanten CIELAB Buntton 305/360 = 0.847 (rechts)

Eingabe: Farbmétrisches Reflexions-System NRS11

für Buntton  $h^* = lab^*h = 325/360 = 0.903$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton B50R  
 LCH\*Ma: 53 84 325  
 olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



**NRS11; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Umfang  
 $u^*_{rel} = 119$   
 %Regularität  
 $g^*_{H,rel} = 47$   
 $g^*_{C,rel} = 100$

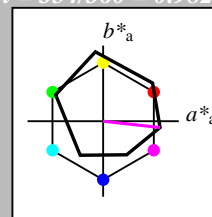


Ausgabe: Farbmétrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 354/360 = 0.982$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton M  
 LCH\*Ma: 48 76 354  
 olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



**ORS18; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Umfang  
 $u^*_{rel} = 93$   
 %Regularität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

**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	-0.97	4.75
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

**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	71.77	37.1	-1.01
LAB*LABa	71.77	37.63	-4.17
LAB*TCHa	75.0	37.86	353.66

**relative CIELAB lab\***

lab*lab	0.695	0.497	-0.054
lab*tch	0.75	0.5	0.982
lab*nch	0.0	0.5	0.982

**relative Natural Colour (NC)**

lab*lrj	0.695	0.454	-0.208
lab*tce	0.75	0.5	0.932
lab*nce	0.0	0.5	0.932

**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	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

**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	33.08	37.84	-3.62
LAB*LABa	33.08	37.63	-4.17
LAB*TCHa	25.01	37.86	353.66

**relative CIELAB lab\***

lab*lab	0.195	0.497	-0.054
lab*tch	0.25	0.5	0.982
lab*nch	0.5	0.5	0.982

**relative Natural Colour (NC)**

lab*lrj	0.195	0.454	-0.208
lab*tce	0.25	0.5	0.932
lab*nce	0.5	0.5	0.932

**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**

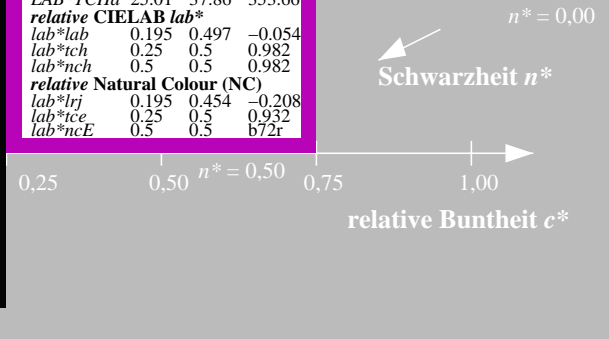
LAB*LAB	18.02	0.5	-0.46
LAB*LABa	18.02	0.0	0.0
LAB*TCHa	0.01	0.01	-

**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	-



TG070-7, 3 stufige Reihen für konstanten CIELAB Buntton 325/360 = 0.903 (links)

3 stufige Reihen für konstanten CIELAB Buntton 354/360 = 0.982 (rechts)

BAM-Prüfvorlage TG07; Farbmétrik-Systeme NRS11 & ORS18 input:  $olv^* setrgbcolor$   
 D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput:  $olv^* setrgbcolor / w^* setgray$

Siehe ähnliche Dateien: <http://www.ps.bam.de/TG07/>  
 Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1, CIEXYZ

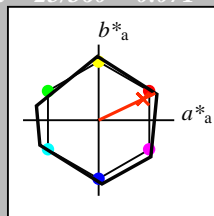
BAM-Registrierung: 20060101-TG07/10Q/Q07G05FP.PS/.PDF BAM-Material: Code=rhatha  
 Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen, Yr=2.5, XYZ  
 /TG07/ Form: 6/10, Serie: 1/1, Seite: 6 Seite: 6

Eingabe: Farbmimetrisches Reflexions-System NRS11

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

D65: Buntton R  
 LCH\*Ma: 53 83 25  
 olv\*Ma: 1.0 0.03 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 119$   
 %Regularität  
 $g^*_{H,rel} = 47$   
 $g^*_{C,rel} = 100$

**NRS11; adaptierte CIELAB-Daten**

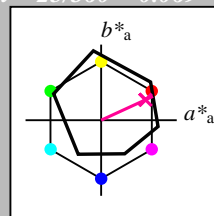
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Ausgabe: Farbmimetrisches Reflexions-System ORS18

für Buntton  $h^* = lab^*h = 25/360 = 0.069$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton R  
 LCH\*Ma: 48 75 25  
 olv\*Ma: 1.0 0.0 0.32

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 93$   
 %Regularität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

**ORS18; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

**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	-0.97	4.75
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

**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	0.661	(1.0)
cmyn3*	0.0	0.5	0.339	(0.0)
olvi4*	1.0	0.5	0.661	1.0
cmyn4*	0.0	0.5	0.339	0.0

**standard and adapted CIELAB**

LAB*LAB	71.7	33.75	18.92
LAB*LABa	71.7	34.27	15.76
LAB*TCHa	75.0	37.72	24.69

**relative CIELAB lab\***

lab*lab	0.694	0.454	0.209
lab*tch	0.75	0.5	0.069
lab*nch	0.0	0.5	0.069

**relative Natural Colour (NC)**

lab*lrj	0.694	0.5	0.0
lab*tce	0.75	0.5	1.0
lab*nce	0.0	0.5	b99r

**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	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

**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	0.161	(1.0)
cmyn3*	0.5	1.0	0.839	(0.0)
olvi4*	1.0	0.5	0.661	0.5
cmyn4*	0.0	0.5	0.339	0.5

**standard and adapted CIELAB**

LAB*LAB	33.01	34.49	16.31
LAB*LABa	33.01	34.27	15.77
LAB*TCHa	25.01	37.73	24.7

**relative CIELAB lab\***

lab*lab	0.194	0.454	0.209
lab*tch	0.25	0.5	0.069
lab*nch	0.5	0.5	0.069

**relative Natural Colour (NC)**

lab*lrj	0.194	0.5	0.0
lab*tce	0.25	0.5	0.0
lab*nce	0.5	0.5	r00j

**relative Inform. Technology (IT)**

olvi3*	1.0	0.0	0.322	(1.0)
cmyn3*	0.0	1.0	0.678	(0.0)
olvi4*	1.0	0.0	0.322	1.0
cmyn4*	0.0	1.0	0.677	0.0

**standard and adapted CIELAB**

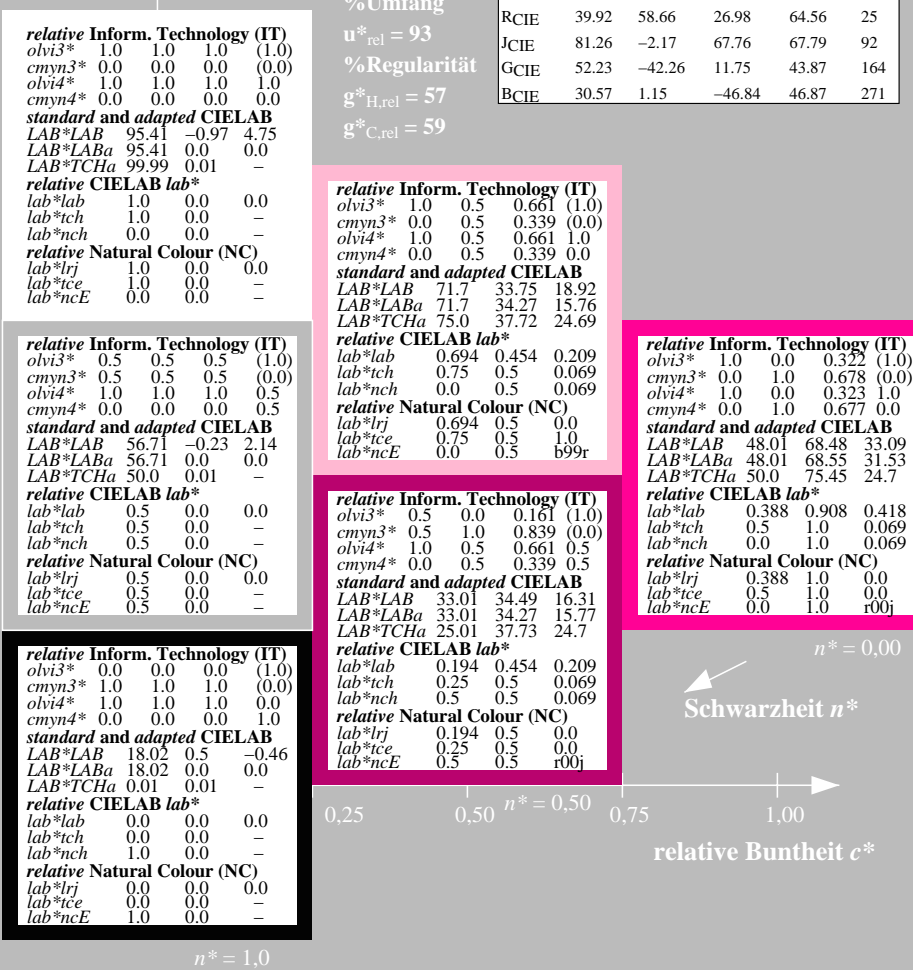
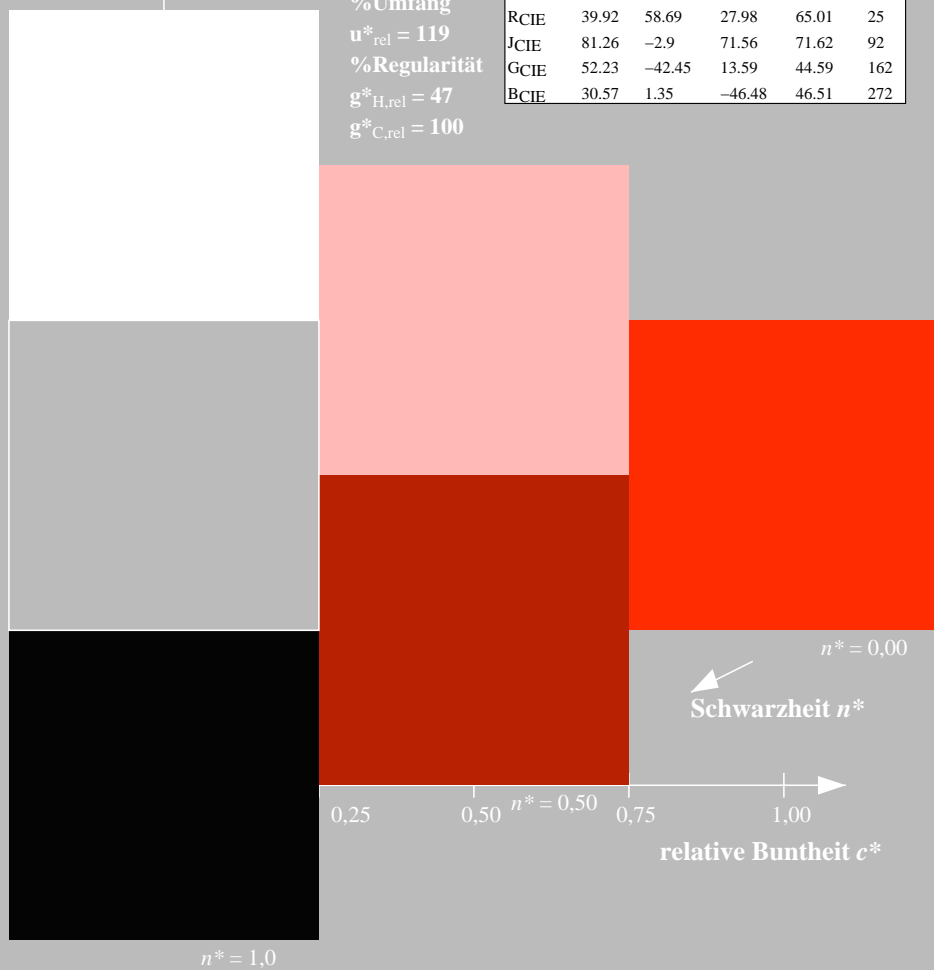
LAB*LAB	48.01	68.48	33.09
LAB*LABa	48.01	68.55	31.53
LAB*TCHa	50.0	75.45	24.7

**relative CIELAB lab\***

lab*lab	0.388	0.908	0.418
lab*tch	0.5	1.0	0.069
lab*nch	0.0	1.0	0.069

**relative Natural Colour (NC)**

lab*lrj	0.388	1.0	0.0
lab*tce	0.5	1.0	0.0
lab*nce	0.0	1.0	r00j



Siehe ähnliche Dateien: <http://www.ps.bam.de/TG07/>  
 Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1, CIEXYZ

BAM-Registrierung: 20060101-TG07/10Q/Q07G06FP.PS/.PDF BAM-Material: Code=rh4tha  
 Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen, Yr=2.5, XYZ  
 /TG07/ Form: 7/10, Serie: 1/1, Seite: 7 Seite/hung 7

TG070-7, 3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)

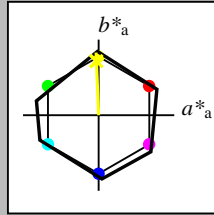
3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (rechts)

BAM-Prüfvorlage TG07; Farbmimetrische-Systeme NRS11 & ORS18 input:  $olv^* setrgbcolor$   
 D65: 3stufige Farbreihen und Koordinaten-Daten für 10 Bunttöneoutput:  $olv^* setrgbcolor / w^* setgray$

Eingabe: Farbmatisches Reflexions-System NRS11

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

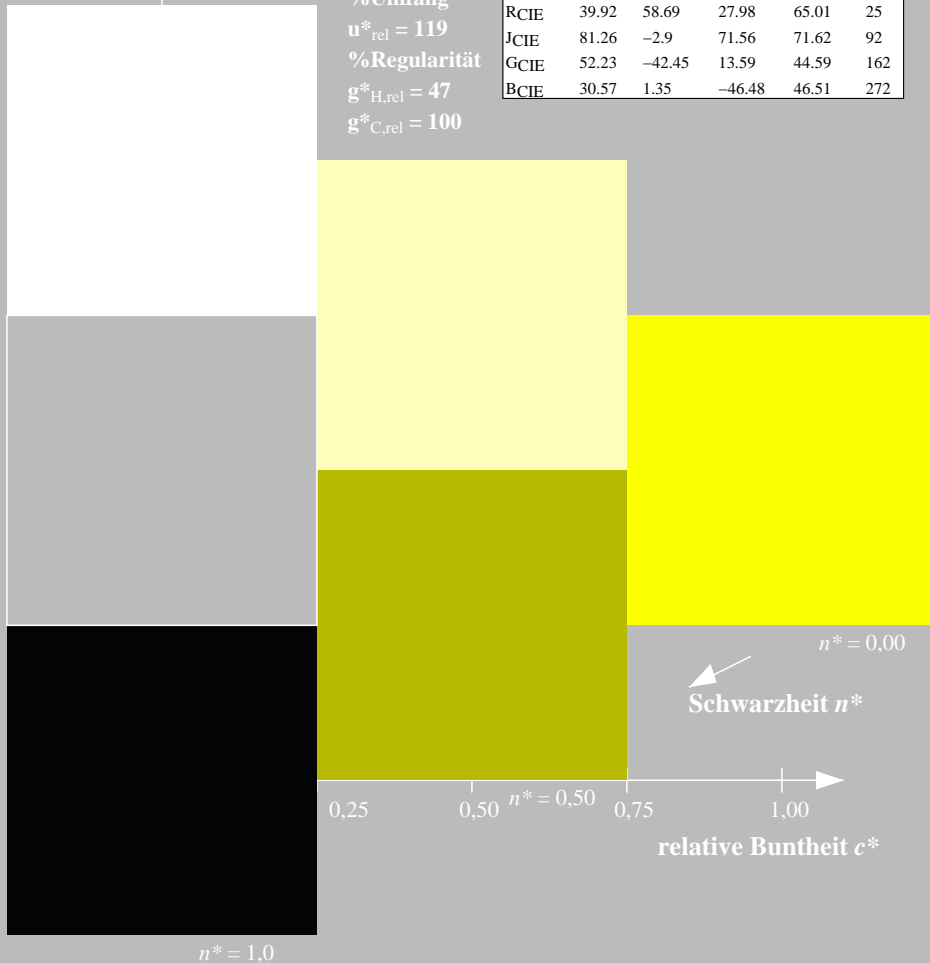
D65: Buntton J  
 LCH\*Ma: 53 83 92  
 olv\*Ma: 0.98 1.0 0.0  
 Dreiecks-Helligkeit  $t^*$



**NRS11; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

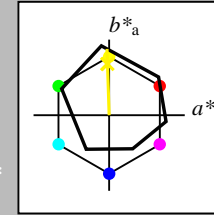
%Umfang  
 $u^*_{rel} = 119$   
 %Regularität  
 $g^*_{H,rel} = 47$   
 $g^*_{C,rel} = 100$



Ausgabe: Farbmatisches Reflexions-System ORS18

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

D65: Buntton J  
 LCH\*Ma: 86 88 92  
 olv\*Ma: 1.0 0.9 0.0  
 Dreiecks-Helligkeit  $t^*$



**ORS18; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Umfang  
 $u^*_{rel} = 93$   
 %Regularität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

**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**  
 $LAB^*LAB = 95.41 \ -0.97 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$   
**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)**  
 $lab^*lrj = 1.0 \ 0.0 \ 0.0$   
 $lab^*tce = 1.0 \ 0.0 \ -$   
 $lab^*nce = 0.0 \ 0.0 \ -$

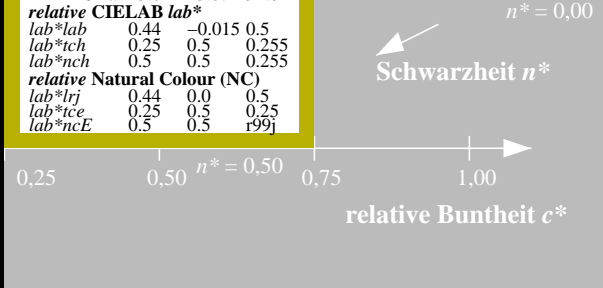
**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 0.951 \ 0.5 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.049 \ 0.5 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.951 \ 0.5 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.049 \ 0.5 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 90.8 \ -2.3 \ 48.29$   
 $LAB^*LABa = 90.8 \ -1.41 \ 43.85$   
 $LAB^*TCHa = 75.0 \ 43.87 \ 91.85$   
**relative CIELAB lab\***  
 $lab^*lab = 0.94 \ -0.015 \ 0.5$   
 $lab^*tch = 0.75 \ 0.5 \ 0.255$   
 $lab^*nch = 0.0 \ 0.5 \ 0.255$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.94 \ 0.0 \ 0.5$   
 $lab^*tce = 0.75 \ 0.5 \ 0.25$   
 $lab^*nce = 0.0 \ 0.5 \ j00g$

**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**  
 $LAB^*LAB = 56.71 \ -0.23 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$   
**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)**  
 $olvi3^* = 0.5 \ 0.451 \ 0.0 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.549 \ 1.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.951 \ 0.5 \ 0.5$   
 $cmyn4^* = 0.0 \ 0.049 \ 0.5 \ 0.5$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 52.1 \ -1.55 \ 45.68$   
 $LAB^*LABa = 52.1 \ -1.4 \ 43.84$   
 $LAB^*TCHa = 25.01 \ 43.87 \ 91.84$   
**relative CIELAB lab\***  
 $lab^*lab = 0.44 \ -0.015 \ 0.5$   
 $lab^*tch = 0.25 \ 0.5 \ 0.255$   
 $lab^*nch = 0.5 \ 0.5 \ 0.255$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.44 \ 0.0 \ 0.5$   
 $lab^*tce = 0.25 \ 0.5 \ 0.25$   
 $lab^*nce = 0.5 \ 0.5 \ j99j$

**relative Inform. Technology (IT)**  
 $olvi3^* = 1.0 \ 0.901 \ 0.0 \ (1.0)$   
 $cmyn3^* = 0.0 \ 0.099 \ 1.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 0.902 \ 0.0 \ 1.0$   
 $cmyn4^* = 0.0 \ 0.098 \ 1.0 \ 0.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 86.19 \ -3.62 \ 91.83$   
 $LAB^*LABa = 86.19 \ -2.82 \ 87.69$   
 $LAB^*TCHa = 50.0 \ 87.73 \ 91.85$   
**relative CIELAB lab\***  
 $lab^*lab = 0.881 \ -0.031 \ 0.999$   
 $lab^*tch = 0.5 \ 1.0 \ 0.255$   
 $lab^*nch = 0.0 \ 1.0 \ 0.255$   
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.881 \ 0.0 \ 1.0$   
 $lab^*tce = 0.5 \ 1.0 \ 0.25$   
 $lab^*nce = 0.0 \ 1.0 \ j00g$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$   
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$   
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$   
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$   
**standard and adapted CIELAB**  
 $LAB^*LAB = 18.02 \ 0.5 \ -0.46$   
 $LAB^*LABa = 18.02 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 0.01 \ 0.01 \ -$   
**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)**  
 $lab^*lrj = 0.0 \ 0.0 \ 0.0$   
 $lab^*tce = 0.0 \ 0.0 \ -$   
 $lab^*nce = 1.0 \ 0.0 \ -$



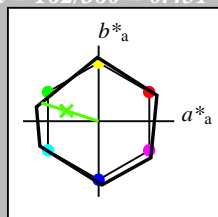


Eingabe: Farbmétrisches Reflexions-System NRS11

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

D65: Buntton G  
 LCH\*Ma: 53 80 162  
 olv\*Ma: 0.08 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 119$   
 %Regularität  
 $g^*_{H,rel} = 47$   
 $g^*_{C,rel} = 100$

**NRS11; adaptierte CIELAB-Daten**

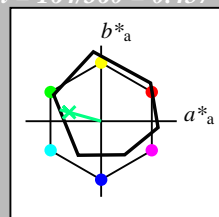
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

Ausgabe: Farbmétrisches Reflexions-System ORS18

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

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

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 93$   
 %Regularität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

**ORS18; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

**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**  
 $LAB^*LAB = 95.41 \ -0.97 \ 4.75$   
 $LAB^*LABa = 95.41 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 99.99 \ 0.01 \ -$

**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**  
 $LAB^*LAB = 56.71 \ -0.23 \ 2.14$   
 $LAB^*LABa = 56.71 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 50.0 \ 0.01 \ -$

**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**  
 $LAB^*LAB = 18.02 \ 0.5 \ -0.46$   
 $LAB^*LABa = 18.02 \ 0.0 \ 0.0$   
 $LAB^*TCHa = 0.01 \ 0.01 \ -$

**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)**  
 $olvi3^* = 0.5 \ 1.0 \ 0.623 \ (1.0)$   
 $cmyn3^* = 0.5 \ 0.0 \ 0.377 \ (0.0)$   
 $olvi4^* = 0.5 \ 1.0 \ 0.623 \ 1.0$   
 $cmyn4^* = 0.5 \ 0.0 \ 0.377 \ 0.0$

**standard and adapted CIELAB**  
 $LAB^*LAB = 74.1 \ -27.96 \ 10.94$   
 $LAB^*LABa = 74.1 \ -27.39 \ 7.62$   
 $LAB^*TCHa = 75.0 \ 28.44 \ 164.46$

**relative CIELAB lab\***  
 $lab^*lab = 0.725 \ -0.481 \ 0.134$   
 $lab^*tch = 0.75 \ 0.5 \ 0.457$   
 $lab^*nch = 0.0 \ 0.5 \ 0.457$

**relative Natural Colour (NC)**  
 $lab^*lrj = 0.725 \ -0.499 \ 0.0$   
 $lab^*tce = 0.75 \ 0.5 \ 0.5$   
 $lab^*nce = 0.0 \ 0.5 \ g00b$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.0 \ 0.5 \ 0.123 \ (1.0)$   
 $cmyn3^* = 1.0 \ 0.5 \ 0.877 \ (0.0)$   
 $olvi4^* = 0.5 \ 1.0 \ 0.623 \ 0.5$   
 $cmyn4^* = 0.5 \ 0.0 \ 0.377 \ 0.5$

**standard and adapted CIELAB**  
 $LAB^*LAB = 35.41 \ -27.22 \ 8.34$   
 $LAB^*LABa = 35.41 \ -27.39 \ 7.63$   
 $LAB^*TCHa = 25.01 \ 28.44 \ 164.45$

**relative CIELAB lab\***  
 $lab^*lab = 0.225 \ -0.481 \ 0.134$   
 $lab^*tch = 0.25 \ 0.5 \ 0.457$   
 $lab^*nch = 0.5 \ 0.5 \ 0.457$

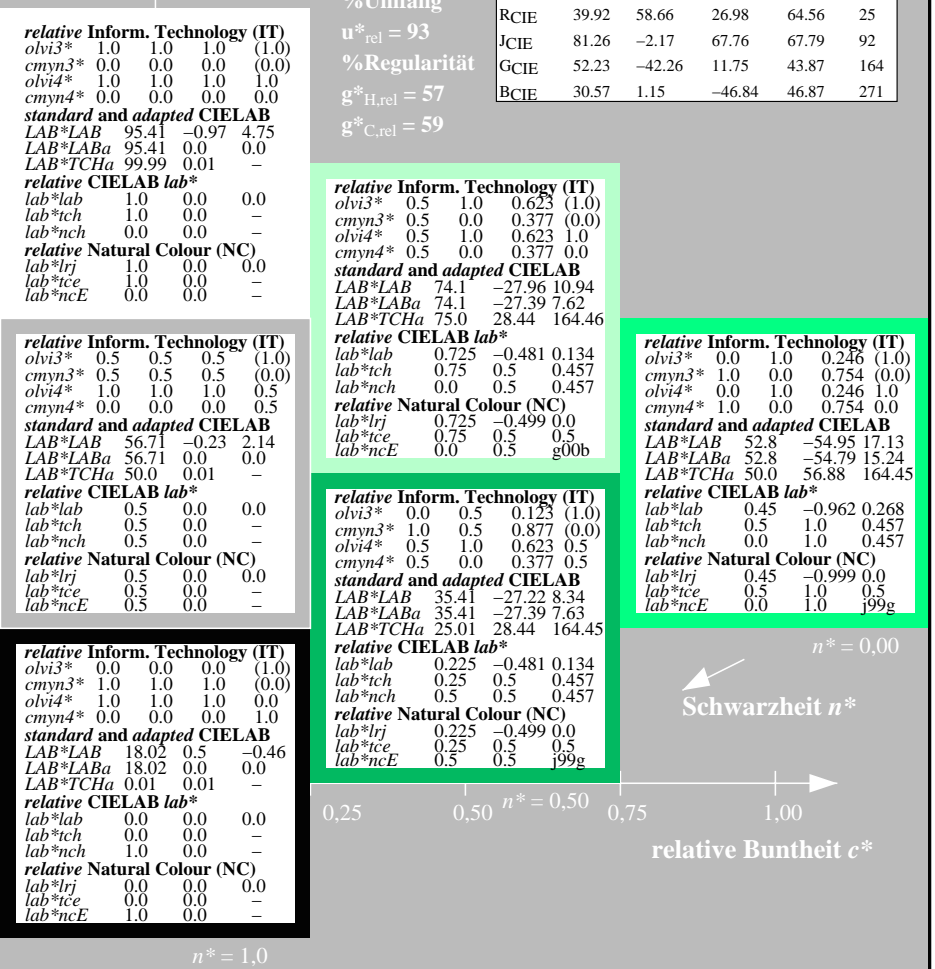
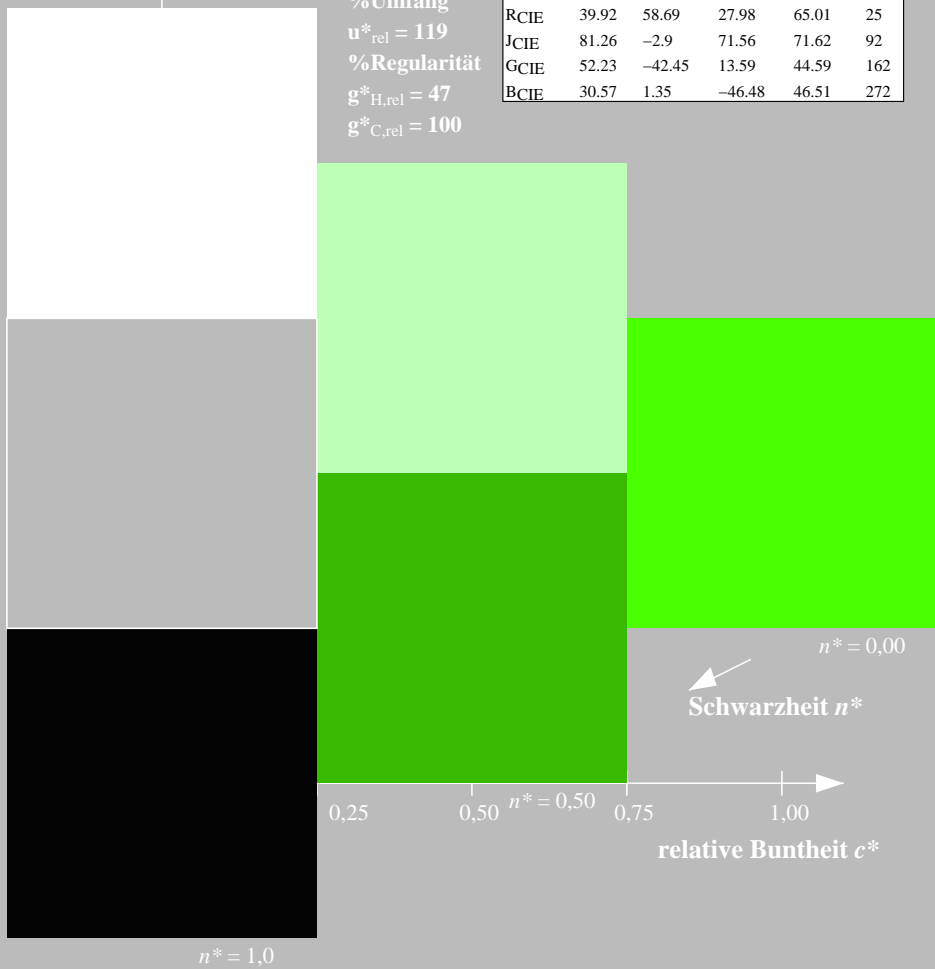
**relative Natural Colour (NC)**  
 $lab^*lrj = 0.225 \ -0.499 \ 0.0$   
 $lab^*tce = 0.25 \ 0.5 \ 0.5$   
 $lab^*nce = 0.5 \ 0.5 \ j99g$

**relative Inform. Technology (IT)**  
 $olvi3^* = 0.0 \ 1.0 \ 0.246 \ (1.0)$   
 $cmyn3^* = 1.0 \ 0.0 \ 0.754 \ (0.0)$   
 $olvi4^* = 0.0 \ 1.0 \ 0.246 \ 1.0$   
 $cmyn4^* = 1.0 \ 0.0 \ 0.754 \ 0.0$

**standard and adapted CIELAB**  
 $LAB^*LAB = 52.8 \ -54.95 \ 17.13$   
 $LAB^*LABa = 52.8 \ -54.79 \ 15.24$   
 $LAB^*TCHa = 50.0 \ 56.88 \ 164.45$

**relative CIELAB lab\***  
 $lab^*lab = 0.45 \ -0.962 \ 0.268$   
 $lab^*tch = 0.5 \ 1.0 \ 0.457$   
 $lab^*nch = 0.0 \ 1.0 \ 0.457$

**relative Natural Colour (NC)**  
 $lab^*lrj = 0.45 \ -0.999 \ 0.0$   
 $lab^*tce = 0.5 \ 1.0 \ 0.5$   
 $lab^*nce = 0.0 \ 1.0 \ j99g$



TG070-7, 3 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

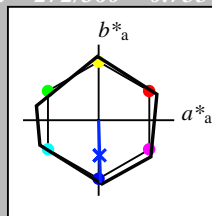
3 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (rechts)

Eingabe: Farbmatisches Reflexions-System NRS11

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

D65: Buntton B  
 LCH\*Ma: 53 83 272  
 olv\*Ma: 0.0 0.02 1.0

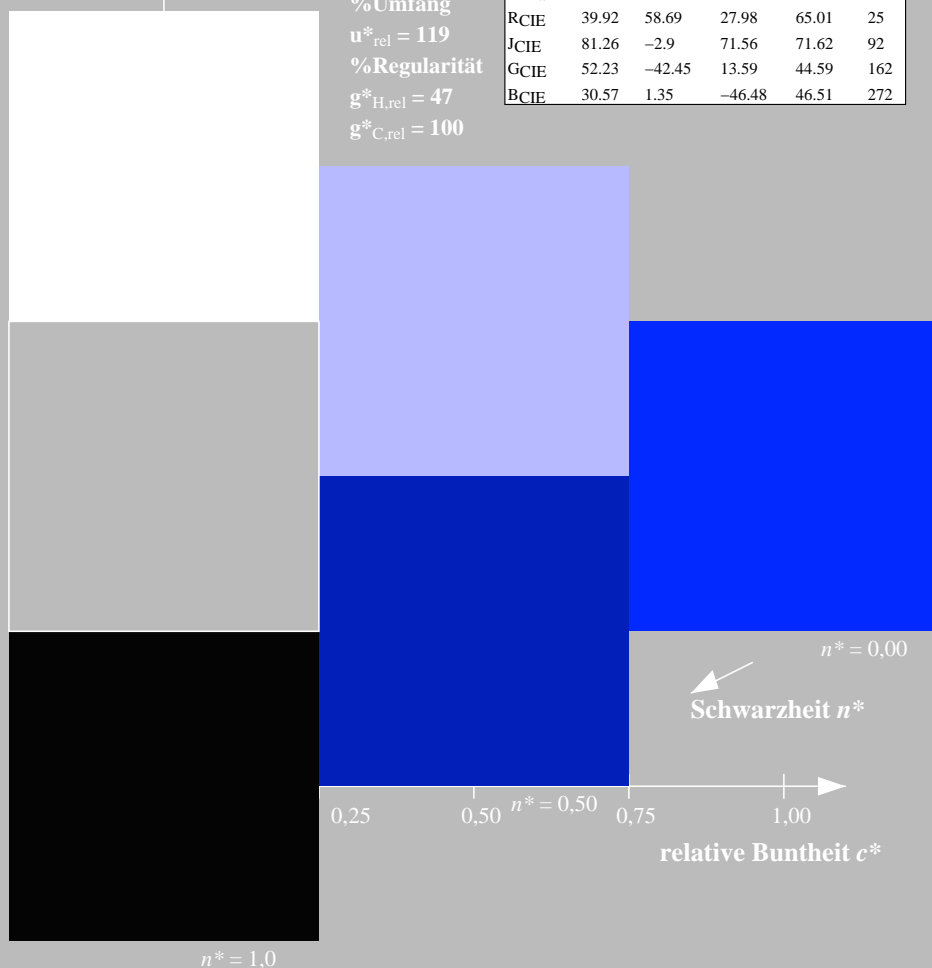
Dreiecks-Helligkeit  $t^*$



**NRS11; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Umfang  
 $u^*_{rel} = 119$   
 %Regularität  
 $g^*_{H,rel} = 47$   
 $g^*_{C,rel} = 100$

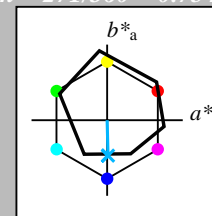


Ausgabe: Farbmatisches Reflexions-System ORS18

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

D65: Buntton B  
 LCH\*Ma: 42 45 271  
 olv\*Ma: 0.0 0.49 1.0

Dreiecks-Helligkeit  $t^*$



**ORS18; adaptierte CIELAB-Daten**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.99	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Umfang  
 $u^*_{rel} = 93$   
 %Regularität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

**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	-0.97	4.75
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

**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	0.744	1.0	(1.0)
cmyn3*	0.5	0.256	0.0	(0.0)
olvi4*	0.5	0.744	1.0	1.0
cmyn4*	0.5	0.256	0.0	0.0

**standard and adapted CIELAB**

LAB*LAB	68.59	0.08	-19.4
LAB*LABa	68.59	0.54	-22.35
LAB*TCHa	75.0	22.36	271.4

**relative CIELAB lab\***

lab*lab	0.654	0.012	-0.499
lab*tch	0.75	0.5	0.754
lab*nch	0.0	0.5	0.754

**relative Natural Colour (NC)**

lab*lrj	0.654	0.0	-0.499
lab*tce	0.75	0.5	0.75
lab*nce	0.0	0.5	g99b

**relative Inform. Technology (IT)**

olvi3*	0.5	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	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

**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	0.244	0.5	(1.0)
cmyn3*	1.0	0.756	0.5	(0.0)
olvi4*	0.5	0.744	1.0	0.5
cmyn4*	0.5	0.256	0.0	0.5

**standard and adapted CIELAB**

LAB*LAB	29.9	0.83	-22.01
LAB*LABa	29.9	0.55	-22.35
LAB*TCHa	25.01	22.36	271.41

**relative CIELAB lab\***

lab*lab	0.154	0.012	-0.499
lab*tch	0.25	0.5	0.754
lab*nch	0.5	0.5	0.754

**relative Natural Colour (NC)**

lab*lrj	0.154	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**

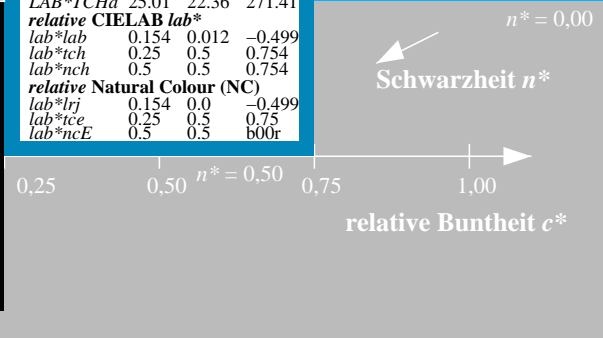
LAB*LAB	18.02	0.5	-0.46
LAB*LABa	18.02	0.0	0.0
LAB*TCHa	0.01	0.01	-

**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	-



3 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (rechts)

TG070-7, 3 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)