

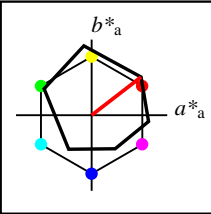
Eingabe: Farbmétrisches Offset-Reflektiv-System ORS18

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

$lab^*tch$  und  $lab^*nch$

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

Dreiecks-Helligkeit  $t^*$



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

relative Inform. Technology (IT) table with columns for olvi3\*, cmyn3\*, olvi4\*, cmyn4\*

standard and adapted CIELAB table with columns for LAB\*LAB, LAB\*LABa, LAB\*TCHa

relative CIELAB lab\* table with columns for lab\*lab, lab\*tch, lab\*nch

relative Natural Colour (NC) table with columns for lab\*lrj, lab\*tce, lab\*nce

relative Inform. Technology (IT) table (repeated)

standard and adapted CIELAB table (repeated)

relative CIELAB lab\* table (repeated)

relative Natural Colour (NC) table (repeated)

relative Inform. Technology (IT) table (repeated)

standard and adapted CIELAB table (repeated)

relative CIELAB lab\* table (repeated)

relative Natural Colour (NC) table (repeated)

$n^* = 1.0$

ORS18; adaptierte CIELAB-Daten

$L^* = L^*_a \ a^*_a \ b^*_a \ C^*_{ab,a} \ h^*_{ab,a}$

Table with 5 columns: O\_Ma, Y\_Ma, L\_Ma, C\_Ma, V\_Ma, M\_Ma, N\_Ma, W\_Ma, R\_CIE, G\_CIE, B\_CIE

relative Inform. Technology (IT) table (repeated)

standard and adapted CIELAB table (repeated)

relative CIELAB lab\* table (repeated)

relative Natural Colour (NC) table (repeated)

relative Inform. Technology (IT) table (repeated)

standard and adapted CIELAB table (repeated)

relative CIELAB lab\* table (repeated)

relative Natural Colour (NC) table (repeated)

relative Inform. Technology (IT) table (repeated)

standard and adapted CIELAB table (repeated)

relative CIELAB lab\* table (repeated)

relative Natural Colour (NC) table (repeated)

relative Buntheit  $c^*$

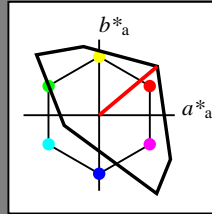
Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 40/360 = 0.111$

$lab^*tch$  und  $lab^*nch$

A: Buntton O  
LCH\*Ma: 51 100 40  
olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

relative Inform. Technology (IT) table

standard and adapted CIELAB table

relative CIELAB lab\* table

relative Natural Colour (NC) table

relative Inform. Technology (IT) table

standard and adapted CIELAB table

relative CIELAB lab\* table

relative Natural Colour (NC) table

relative Inform. Technology (IT) table

standard and adapted CIELAB table

relative CIELAB lab\* table

relative Natural Colour (NC) table

$n^* = 1.0$

TLS00; adaptierte CIELAB-Daten

$L^* = L^*_a \ a^*_a \ b^*_a \ C^*_{ab,a} \ h^*_{ab,a}$

Table with 5 columns: O\_Ma, Y\_Ma, L\_Ma, C\_Ma, V\_Ma, M\_Ma, N\_Ma, W\_Ma, R\_CIE, G\_CIE, B\_CIE

relative Inform. Technology (IT) table

standard and adapted CIELAB table

relative CIELAB lab\* table

relative Natural Colour (NC) table

relative Inform. Technology (IT) table

standard and adapted CIELAB table

relative CIELAB lab\* table

relative Natural Colour (NC) table

relative Inform. Technology (IT) table

standard and adapted CIELAB table

relative CIELAB lab\* table

relative Natural Colour (NC) table

relative Buntheit  $c^*$

$n^* = 0.00$

RG100-7, 3 stufige Reihen für konstanten CIELAB Buntton  $38/360 = 0.105$  (links)

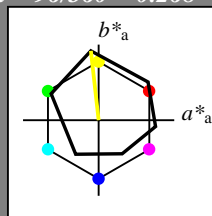
3 stufige Reihen für konstanten CIELAB Buntton  $40/360 = 0.111$  (rechts)

BAM-Prüfvorlage RG10; Farbmétrik-Systeme ORS18 & TLS00 input:  $olv^* \ setrgbcolor$   
A: 2 Koordinatendaten; 3 stufige Farbreihen für 10 Bunttöne output:  $olv^* \ setrgbcolor / w^* \ setgray$

Eingabe: Farbmatisches Offset-Reflektiv-System ORS18  
 für Buntton  $h^* = lab^*h = 96/360 = 0.268$   
 $lab^*tch$  und  $lab^*nch$

A: 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	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	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	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	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 -0.98 4.75  
 LAB\*LAb 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 -0.24 2.14  
 LAB\*LAb 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 -0.47  
 LAB\*LAb 18.02 0.0 0.0  
 LAB\*TChA 8.01 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 -

$n^* = 1.0$

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 92.88 -6.06 50.46  
 LAB\*LAb 92.88 -5.12 45.87  
 LAB\*TChA 75.0 46.15 96.38

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 0.266

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 47.84  
 LAB\*LAb 54.19 -5.12 45.87  
 LAB\*TChA 25.01 46.15 96.38

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 0.266

$n^* = 0.00$

Schwarzhcit  $n^*$

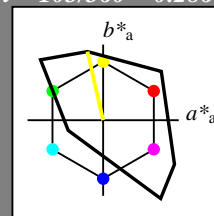
relative Buntheit  $c^*$

0,25 0,50  $n^* = 0.50$  0,75 1,00

Ausgabe: Farbmatisches Fernseh-Licht-System TLS00  
 für Buntton  $h^* = lab^*h = 103/360 = 0.286$   
 $lab^*tch$  und  $lab^*nch$

A: Buntton Y  
 LCH\*Ma: 93 93 103  
 olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



**TLS00; adaptierte CIELAB-Daten**

	$L^* = L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	50.5	76.92	64.55	100.42	40
YMa	92.66	-20.69	90.75	93.08	103
LMa	83.63	-82.75	79.9	115.04	136
CMa	86.88	-46.16	-13.55	48.12	196
VMa	30.39	76.06	-103.59	128.52	306
MMa	57.3	94.35	-58.41	110.97	328
NMa	0.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

%Umfang  
 $u^*_{rel} = 158$   
 %Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

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\*LAb 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 47.72 0.0 0.0  
 LAB\*LAb 47.72 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\* 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 94.03 -10.34 45.37  
 LAB\*LAb 94.03 -10.34 45.37  
 LAB\*TChA 75.0 46.53 102.85

relative CIELAB lab\*  
 lab\*lab 0.985 -0.11 0.487  
 lab\*tch 0.75 0.5 0.286  
 lab\*nch 0.0 0.5 0.286

relative Natural Colour (NC)  
 lab\*lrj 0.985 -0.116 0.486  
 lab\*tce 0.75 0.5 0.288  
 lab\*nce 0.0 0.5 0.288

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 46.34 -10.34 45.37  
 LAB\*LAb 46.34 -10.34 45.37  
 LAB\*TChA 25.01 46.53 102.85

relative CIELAB lab\*  
 lab\*lab 0.486 -0.11 0.487  
 lab\*tch 0.25 0.5 0.286  
 lab\*nch 0.5 0.5 0.286

relative Natural Colour (NC)  
 lab\*lrj 0.486 -0.116 0.486  
 lab\*tce 0.25 0.5 0.288  
 lab\*nce 0.5 0.5 0.288

$n^* = 0.00$

Schwarzhcit  $n^*$

relative Buntheit  $c^*$

0,25 0,50  $n^* = 0.50$  0,75 1,00

$n^* = 1.0$

Schwarzhcit  $n^*$

relative Buntheit  $c^*$

0,25 0,50  $n^* = 0.50$  0,75 1,00



Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

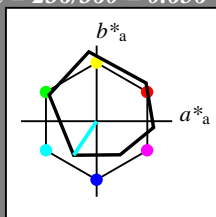
für Buntton  $h^* = lab^*h = 236/360 = 0.656$   
 $lab^*tch$  und  $lab^*nch$

A: Buntton C

LCH\*Ma: 59 54 236

olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT) table with columns olvi3\*, cmyn3\*, olvi4\*, cmyn4\* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB\*LAB, LAB\*LABa, LAB\*TCHa and values 95.41, 0.0, 99.99.

relative CIELAB lab\* table with columns lab\*lab, lab\*tch, lab\*nch and values 1.0, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab\*lrj, lab\*tce, lab\*ncE and values 1.0, 0.0, 0.0.

relative Inform. Technology (IT) table with columns olvi3\*, cmyn3\*, olvi4\*, cmyn4\* and values 0.5, 0.5, 1.0, 0.5.

standard and adapted CIELAB table with columns LAB\*LAB, LAB\*LABa, LAB\*TCHa and values 56.71, 0.0, 50.0.

relative CIELAB lab\* table with columns lab\*lab, lab\*tch, lab\*nch and values 0.5, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab\*lrj, lab\*tce, lab\*ncE and values 0.5, 0.0, 0.5.

relative Inform. Technology (IT) table with columns olvi3\*, cmyn3\*, olvi4\*, cmyn4\* and values 0.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB\*LAB, LAB\*LABa, LAB\*TCHa and values 18.02, 0.0, 8.01.

relative CIELAB lab\* table with columns lab\*lab, lab\*tch, lab\*nch and values 0.0, 0.0, 1.0.

relative Natural Colour (NC) table with columns lab\*lrj, lab\*tce, lab\*ncE and values 0.0, 0.0, 1.0.

n\* = 1,0

ORS18; adaptierte CIELAB-Daten

Table with 6 columns: L\*, a\*, b\*, C\*, h\*. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Umfang

u\*<sub>rel</sub> = 93

%Regularität

g\*<sub>H,rel</sub> = 57

g\*<sub>C,rel</sub> = 59

relative Inform. Technology (IT)

relative Inform. Technology (IT) table with columns olvi3\*, cmyn3\*, olvi4\*, cmyn4\* and values 0.5, 1.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB\*LAB, LAB\*LABa, LAB\*TCHa and values 77.01, -15.8, 27.14.

relative CIELAB lab\* table with columns lab\*lab, lab\*tch, lab\*nch and values 0.762, -0.278, 0.656.

relative Natural Colour (NC) table with columns lab\*lrj, lab\*tce, lab\*ncE and values 0.762, -0.247, 0.667.

relative Inform. Technology (IT)

relative Inform. Technology (IT) table with columns olvi3\*, cmyn3\*, olvi4\*, cmyn4\* and values 0.0, 0.5, 1.0, 0.5.

standard and adapted CIELAB table with columns LAB\*LAB, LAB\*LABa, LAB\*TCHa and values 38.32, -15.05, 25.01.

relative CIELAB lab\* table with columns lab\*lab, lab\*tch, lab\*nch and values 0.262, -0.278, 0.656.

relative Natural Colour (NC) table with columns lab\*lrj, lab\*tce, lab\*ncE and values 0.262, -0.247, 0.667.

relative Buntheit c\* scale from 0.25 to 1.00 with n\* = 0,00.

relative Buntheit c\* scale from 0.25 to 1.00 with n\* = 0,50.

relative Buntheit c\* scale from 0.25 to 1.00 with n\* = 1,0.

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

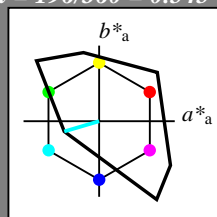
für Buntton  $h^* = lab^*h = 196/360 = 0.545$   
 $lab^*tch$  und  $lab^*nch$

A: Buntton C

LCH\*Ma: 87 48 196

olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT) table with columns olvi3\*, cmyn3\*, olvi4\*, cmyn4\* and values 1.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB\*LAB, LAB\*LABa, LAB\*TCHa and values 95.41, 0.0, 99.99.

relative CIELAB lab\* table with columns lab\*lab, lab\*tch, lab\*nch and values 1.0, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab\*lrj, lab\*tce, lab\*ncE and values 1.0, 0.0, 0.0.

relative Inform. Technology (IT) table with columns olvi3\*, cmyn3\*, olvi4\*, cmyn4\* and values 0.5, 0.5, 1.0, 0.5.

standard and adapted CIELAB table with columns LAB\*LAB, LAB\*LABa, LAB\*TCHa and values 47.72, 0.0, 50.0.

relative CIELAB lab\* table with columns lab\*lab, lab\*tch, lab\*nch and values 0.5, 0.0, 0.0.

relative Natural Colour (NC) table with columns lab\*lrj, lab\*tce, lab\*ncE and values 0.5, 0.0, 0.5.

relative Inform. Technology (IT) table with columns olvi3\*, cmyn3\*, olvi4\*, cmyn4\* and values 0.0, 0.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB\*LAB, LAB\*LABa, LAB\*TCHa and values 0.03, 0.0, 0.01.

relative CIELAB lab\* table with columns lab\*lab, lab\*tch, lab\*nch and values 0.0, 0.0, 1.0.

relative Natural Colour (NC) table with columns lab\*lrj, lab\*tce, lab\*ncE and values 0.0, 0.0, 1.0.

n\* = 1,0

TLS00; adaptierte CIELAB-Daten

Table with 6 columns: L\*, a\*, b\*, C\*, h\*. Rows include OMa, YMa, LMa, CMa, VMa, MMa, NMa, WMa, RCIE, JCIE, GCIE, BCIE.

%Umfang

u\*<sub>rel</sub> = 158

%Regularität

g\*<sub>H,rel</sub> = 20

g\*<sub>C,rel</sub> = 37

relative Inform. Technology (IT)

relative Inform. Technology (IT) table with columns olvi3\*, cmyn3\*, olvi4\*, cmyn4\* and values 0.5, 1.0, 1.0, 0.0.

standard and adapted CIELAB table with columns LAB\*LAB, LAB\*LABa, LAB\*TCHa and values 91.14, -23.07, 24.06.

relative CIELAB lab\* table with columns lab\*lab, lab\*tch, lab\*nch and values 0.955, -0.479, 0.545.

relative Natural Colour (NC) table with columns lab\*lrj, lab\*tce, lab\*ncE and values 0.955, -0.44, 0.578.

relative Inform. Technology (IT)

relative Inform. Technology (IT) table with columns olvi3\*, cmyn3\*, olvi4\*, cmyn4\* and values 0.0, 0.5, 1.0, 0.5.

standard and adapted CIELAB table with columns LAB\*LAB, LAB\*LABa, LAB\*TCHa and values 43.45, -23.07, 25.01.

relative CIELAB lab\* table with columns lab\*lab, lab\*tch, lab\*nch and values 0.455, -0.479, 0.545.

relative Natural Colour (NC) table with columns lab\*lrj, lab\*tce, lab\*ncE and values 0.455, -0.44, 0.578.

relative Buntheit c\* scale from 0.25 to 1.00 with n\* = 0,00.

relative Buntheit c\* scale from 0.25 to 1.00 with n\* = 0,50.

relative Buntheit c\* scale from 0.25 to 1.00 with n\* = 1,0.

Siehe ähnliche Dateien: <http://www.ps.bam.de/RG10/>  
Technische Information: <http://www.ps.bam.de/Version 2.1, io=1,1, CIELAB>

BAM-Registrierung: 20060101-RG10/10L/L10G03FP.PS/.PDF BAM-Material: Code=rh4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/RG10/ Form: 4/10, Serie: 1/1, Seite: 4  
Satzzeichnung 4

RG10-7, 3 stufige Reihen für konstanten CIELAB Buntton 236/360 = 0.656 (links)

3 stufige Reihen für konstanten CIELAB Buntton 196/360 = 0.545 (rechts)

BAM-Prüfvorlage RG10; Farbmetrik-Systeme ORS18 & TLS00 input: `olv* setrgbcolor`

A: 2 Koordinatendaten; 3 stufige Farbreihen für 10 Bunttöne output: `olv* setrgbcolor / w* setgray`

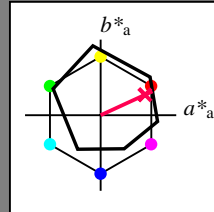




Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18  
 für Buntton  $h^* = \text{lab}^*h = 25/360 = 0.069$   
 $\text{lab}^*tch$  und  $\text{lab}^*nch$

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

Dreiecks-Helligkeit  $t^*$



ORS18; adaptierte CIELAB-Daten					
	$L^* = L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	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	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	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	-0.98	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	-	-

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

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	34.28	15.76	-
LAB*TCHa	75.0	37.73	24.7	-

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	0.999	-

standard and adapted CIELAB				
LAB*LAB	71.7	33.75	18.92	-
LAB*LABa	71.7	34.28	15.76	-
LAB*TCHa	75.0	37.73	24.7	-

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	34.28	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	0.999	-

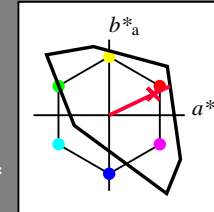
relative Buntheit  $c^*$  (Scale: 0.25, 0.50, 0.75, 1.00)

$n^* = 1.0$

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00  
 für Buntton  $h^* = \text{lab}^*h = 25/360 = 0.071$   
 $\text{lab}^*tch$  und  $\text{lab}^*nch$

A: Buntton R  
 LCH\*Ma: 52 89 25  
 olv\*Ma: 1.0 0.0 0.21

Dreiecks-Helligkeit  $t^*$



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

standard and adapted CIELAB				
LAB*LAB	95.41	0.0	0.0	-
LAB*LABa	95.41	0.0	0.0	-
LAB*TCHa	99.99	0.01	-	-

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	-	-

%Umfang  
 $u^*_{rel} = 158$   
 %Regularität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

relative Inform. Technology (IT)				
olvi3*	1.0	0.5	0.606	(1.0)
cmyn3*	0.0	0.5	0.394	(0.0)
olvi4*	1.0	0.5	0.606	1.0
cmyn4*	0.0	0.5	0.394	0.0

standard and adapted CIELAB				
LAB*LAB	73.67	40.3	19.2	-
LAB*LABa	73.67	40.3	19.2	-
LAB*TCHa	75.0	44.64	25.47	-

relative CIELAB lab*				
lab*lab	0.772	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	0.772	0.5	0.0	-
lab*tce	0.75	0.5	1.0	-
lab*nce	0.0	0.5	0.999	-

standard and adapted CIELAB				
LAB*LAB	47.72	0.0	0.0	-
LAB*LABa	47.72	0.0	0.0	-
LAB*TCHa	50.0	0.01	-	-

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	47.72	0.0	0.0	-
LAB*LABa	47.72	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 Buntheit  $c^*$  (Scale: 0.25, 0.50, 0.75, 1.00)

$n^* = 1.0$

RG100-7, 3 stufige Reihen für konstanten CIELAB Bunnton 25/360 = 0.069 (links)

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

BAM-Prüfvorlage RG10; Farbmetrik-Systeme ORS18 & TLS00 input:  $olv^* \text{ setrgbcolor}$

A: 2 Koordinatendaten; 3 stufige Farbreihen für 10 Bunttöne output:  $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$



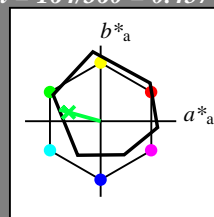


### Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

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

Dreiecks-Helligkeit  $t^*$



ORS18; adaptierte CIELAB-Daten					
	$L^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	47.94	65.39	50.52	82.63	38
Y <sub>Ma</sub>	90.37	-10.26	91.75	92.32	96
L <sub>Ma</sub>	50.9	-62.83	34.96	71.91	151
C <sub>Ma</sub>	58.62	-30.34	-45.01	54.3	236
V <sub>Ma</sub>	25.72	31.1	-44.4	54.22	305
M <sub>Ma</sub>	48.13	75.28	-8.36	75.74	354
N <sub>Ma</sub>	18.01	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.66	26.98	64.57	25
J <sub>CIE</sub>	81.26	-2.16	67.76	67.79	92
G <sub>CIE</sub>	52.23	-42.25	11.76	43.87	164
B <sub>CIE</sub>	30.57	1.15	-46.84	46.86	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	-0.98	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	-0.24	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	-0.47
LAB*LABa	18.02	0.0	0.0
LAB*TCHa	81.01	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	-

$n^* = 1.0$

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	-27.98	10.94
LAB*LABa	74.1	-27.4	7.62
LAB*TCHa	75.0	28.45	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	-27.24	8.34
LAB*LABa	35.41	-27.4	7.63
LAB*TCHa	25.01	28.46	164.44

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	199g

$n^* = 0.00$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

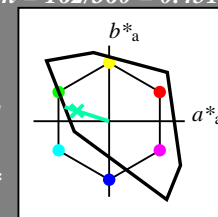


### Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

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

A: Buntton G  
LCH\*Ma: 86 62 162  
olv\*Ma: 0.0 1.0 0.65

Dreiecks-Helligkeit  $t^*$



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

standard and adapted CIELAB			
LAB*LAB	95.41	0.0	0.0
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

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	47.72	0.0	0.0
LAB*LABa	47.72	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	0.03	0.0	0.0
LAB*LABa	0.03	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	-

$n^* = 1.0$

Schwarzheit  $n^*$

relative Buntheit  $c^*$

