

Eingabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 30/360 = 0.083$

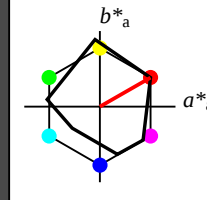
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 91$

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 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*trc 1.0 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*trc 0.75 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (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 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*trc 0.5 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*trc 0.25 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

$n^* = 1.0$

MRS18; adaptierte CIELAB-Daten

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

RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
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

%Regularität

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

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 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 72.52 32.93 22.4
LAB*LABa 72.52 33.47 19.18
LAB*TCHa 75.0 38.58 29.82

relative CIELAB lab*
lab*lab 0.704 0.434 0.249
lab*ch 0.75 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*trj 0.704 0.496 0.06
lab*trc 0.75 0.5 0.019
lab*ncc 0.0 0.5 0.071

relative Inform. Technology (IT)
olvi3* 0.75 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 53.17 33.31 21.09
LAB*LABa 53.17 33.48 19.19
LAB*TCHa 50.0 38.59 29.82

relative CIELAB lab*
lab*lab 0.654 0.434 0.249
lab*ch 0.75 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*trj 0.654 0.496 0.06
lab*trc 0.75 0.5 0.019
lab*ncc 0.0 0.5 0.071

relative Inform. Technology (IT)
olvi3* 0.5 0.0 1.0 (1.0)
cmyn3* 0.5 0.0 1.0 (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 33.62 32.67 19.79
LAB*LABa 33.62 33.47 19.18
LAB*TCHa 25.01 38.58 29.82

relative CIELAB lab*
lab*lab 0.306 0.651 0.373
lab*ch 0.375 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*trj 0.306 0.745 0.09
lab*trc 0.375 0.5 0.019
lab*ncc 0.0 0.5 0.071

relative Inform. Technology (IT)
olvi3* 0.25 0.0 1.0 (1.0)
cmyn3* 0.25 0.0 1.0 (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 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.102 0.217 0.124
lab*ch 0.125 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*trj 0.102 0.248 0.03
lab*trc 0.125 0.5 0.019
lab*ncc 0.0 0.5 0.071

$n^* = 0.50$

Ausgabe: Farbmetrisches Reflexions-System ORS18

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

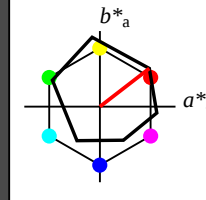
lab^*ch und lab^*nch

D65: Buntton O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 93$

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 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*trc 1.0 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*trc 0.75 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (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 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*trc 0.5 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*trc 0.25 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

$n^* = 1.0$

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

%Regularität

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

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 0.0 0.0 (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*ch 0.75 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*trj 0.693 0.477 0.15
lab*trc 0.75 0.5 0.048
lab*ncc 0.0 0.5 0.191

relative Inform. Technology (IT)
olvi3* 0.75 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 52.33 32.69 25.26
LAB*LABa 52.33 32.69 25.26
LAB*TCHa 50.0 41.31 37.7

relative CIELAB lab*
lab*lab 0.54 0.593 0.459
lab*ch 0.625 0.75 0.105
lab*nch 0.0 0.75 0.105
relative Natural Colour (NC)
lab*trj 0.54 0.715 0.225
lab*trc 0.625 0.75 0.048
lab*ncc 0.0 0.75 0.191

relative Inform. Technology (IT)
olvi3* 0.5 0.0 1.0 (1.0)
cmyn3* 0.5 0.0 1.0 (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 32.98 32.68 25.25
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*ch 0.25 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*trj 0.193 0.477 0.15
lab*trc 0.25 0.5 0.048
lab*ncc 0.0 0.5 0.191

relative Inform. Technology (IT)
olvi3* 0.25 0.0 1.0 (1.0)
cmyn3* 0.25 0.0 1.0 (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 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

$n^* = 0.50$

TG55-7, 5 stufige Reihen für konstanten CIELAB Buntton 30/360 = 0.083 (links)

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

BAM-Prüfvorlage TG55; Farbmetrik-Systeme MRS18 & ORS18input: $olv^* setrgbcolor$

D65: 2 Koordinaten-Daten von 25stufigen Farbseiten für 10 Bunttöne: $olv^* setrgbcolor / w^* setgray$

Output: $olv^* setrgbcolor / w^* setgray$

[illegible]

2.5, XY

für 10 Bunttöne: `plot: olv* setrgbcolor / w* setgray`



Siehe ähnliche Dateien: <http://www.ps.bam.de/TG55/>
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1, CIEXYZ

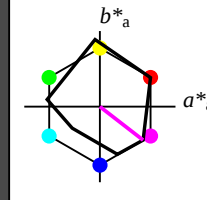
Eingabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 322/360 = 0.895$

lab^*tch und lab^*nch

D65: Buntton B50R
LCH*Ma: 35 72 322
rgb*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 91$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.41	-0.97	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*TCRa	99.99	0.01	0.0	

relative CIELAB lab*

lab*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	1.0	0.0	0.0	
lab*tce	1.0	0.0	0.0	
lab*nce	0.0	0.0	0.0	

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	1.0	0.0	0.0	
lab*tce	1.0	0.0	0.0	
lab*nce	0.0	0.0	0.0	

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*TCRa	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.5	0.5	(0.0)
lab*tch	0.75	0.5	0.5	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.75	0.5	0.5	(0.0)
lab*tce	0.75	0.5	0.5	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*TCRa	50.01	0.0	0.0	

relative CIELAB lab*

lab*lab	0.5	0.5	0.5	(0.0)
lab*tch	0.5	0.5	0.5	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.5	0.5	0.5	(0.0)
lab*tce	0.5	0.5	0.5	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	37.36	-0.13	0.63	
LAB*LAB	37.36	0.0	0.0	
LAB*TCRa	25.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.25	0.25	(0.0)
lab*tch	0.25	0.25	0.25	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.25	0.25	0.25	(0.0)
lab*tce	0.25	0.25	0.25	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.1	0.1	0.1	(0.0)
lab*tch	0.1	0.1	0.1	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.1	0.1	0.1	(0.0)
lab*tce	0.1	0.1	0.1	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.05	0.05	0.05	(0.0)
lab*tch	0.05	0.05	0.05	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.05	0.05	0.05	(0.0)
lab*tce	0.05	0.05	0.05	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.01	0.01	0.01	(0.0)
lab*tch	0.01	0.01	0.01	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.01	0.01	0.01	(0.0)
lab*tce	0.01	0.01	0.01	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.005	0.005	0.005	(0.0)
lab*tch	0.005	0.005	0.005	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.005	0.005	0.005	(0.0)
lab*tce	0.005	0.005	0.005	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.001	0.001	0.001	(0.0)
lab*tch	0.001	0.001	0.001	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.001	0.001	0.001	(0.0)
lab*tce	0.001	0.001	0.001	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

TG55-7, 5 stufige Reihen für konstanten CIELAB Buntton 322/360 = 0.895 (links)

BAM-Prüfvorlage TG55; Farbmetrik-Systeme MRS18 & ORS18input: $olv^* setrgbcolor$

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen: $olv^* setrgbcolor / w^* setgray$

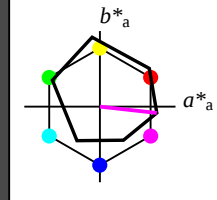
Ausgabe: Farbmetrisches Reflexions-System ORS18

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

lab^*tch und lab^*nch

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

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 93$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.41	-0.97	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*TCRa	99.99	0.01	0.0	

relative CIELAB lab*

lab*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	1.0	0.0	0.0	
lab*tce	1.0	0.0	0.0	
lab*nce	0.0	0.0	0.0	

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
lab*trj	1.0	0.0	0.0	
lab*tce	1.0	0.0	0.0	
lab*nce	0.0	0.0	0.0	

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*TCRa	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.5	0.5	(0.0)
lab*tch	0.75	0.5	0.5	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.75	0.5	0.5	(0.0)
lab*tce	0.75	0.5	0.5	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*TCRa	50.01	0.0	0.0	

relative CIELAB lab*

lab*lab	0.5	0.5	0.5	(0.0)
lab*tch	0.5	0.5	0.5	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.5	0.5	0.5	(0.0)
lab*tce	0.5	0.5	0.5	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	37.36	-0.13	0.63	
LAB*LAB	37.36	0.0	0.0	
LAB*TCRa	25.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.25	0.25	(0.0)
lab*tch	0.25	0.25	0.25	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.25	0.25	0.25	(0.0)
lab*tce	0.25	0.25	0.25	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.1	0.1	0.1	(0.0)
lab*tch	0.1	0.1	0.1	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.1	0.1	0.1	(0.0)
lab*tce	0.1	0.1	0.1	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.05	0.05	0.05	(0.0)
lab*tch	0.05	0.05	0.05	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.05	0.05	0.05	(0.0)
lab*tce	0.05	0.05	0.05	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.01	0.01	0.01	(0.0)
lab*tch	0.01	0.01	0.01	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.01	0.01	0.01	(0.0)
lab*tce	0.01	0.01	0.01	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.005	0.005	0.005	(0.0)
lab*tch	0.005	0.005	0.005	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.005	0.005	0.005	(0.0)
lab*tce	0.005	0.005	0.005	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCRa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.001	0.001	0.001	(0.0)
lab*tch	0.001	0.001	0.001	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
lab*trj	0.001	0.001	0.001	(0.0)
lab*tce	0.001	0.001	0.001	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

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

BAM-Material: Code=rh4ta

Yr=2.5, XYZ

ive Buntheit c^*

für 10 Bunttöne: `olv* setrgbcolor / w* setgray`

Eingabe: Farbmetrisches Reflexions-System MRS18

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

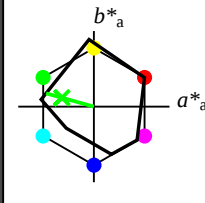
lab^*ch und lab^*nch

D65: Buntton G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 91$

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

olvi4* 1.0 1.0 1.0 (1.0)

olvi5* 1.0 1.0 1.0 (1.0)

olvi6* 1.0 1.0 1.0 (1.0)

olvi7* 1.0 1.0 1.0 (1.0)

olvi8* 1.0 1.0 1.0 (1.0)

olvi9* 1.0 1.0 1.0 (1.0)

olvi10* 1.0 1.0 1.0 (1.0)

standard and adapted CIELAB

LAB*LAB 56.71 -0.23 2.14

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

MRS18; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
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

%Regularität

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

olvi4* 0.75 0.75 0.75 (1.0)

olvi5* 0.75 0.75 0.75 (1.0)

olvi6* 0.75 0.75 0.75 (1.0)

olvi7* 0.75 0.75 0.75 (1.0)

olvi8* 0.75 0.75 0.75 (1.0)

olvi9* 0.75 0.75 0.75 (1.0)

olvi10* 0.75 0.75 0.75 (1.0)

standard and adapted CIELAB

LAB*LAB 56.71 -0.23 2.14

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (1.0)

olvi4* 0.5 0.5 0.5 (1.0)

olvi5* 0.5 0.5 0.5 (1.0)

olvi6* 0.5 0.5 0.5 (1.0)

olvi7* 0.5 0.5 0.5 (1.0)

olvi8* 0.5 0.5 0.5 (1.0)

olvi9* 0.5 0.5 0.5 (1.0)

olvi10* 0.5 0.5 0.5 (1.0)

standard and adapted CIELAB

LAB*LAB 56.71 -0.23 2.14

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (1.0)

olvi4* 0.25 0.25 0.25 (1.0)

olvi5* 0.25 0.25 0.25 (1.0)

olvi6* 0.25 0.25 0.25 (1.0)

olvi7* 0.25 0.25 0.25 (1.0)

olvi8* 0.25 0.25 0.25 (1.0)

olvi9* 0.25 0.25 0.25 (1.0)

olvi10* 0.25 0.25 0.25 (1.0)

standard and adapted CIELAB

LAB*LAB 56.71 -0.23 2.14

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

Ausgabe: Farbmetrisches Reflexions-System ORS18

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

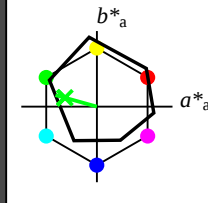
lab^*ch und lab^*nch

D65: Buntton G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 93$

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

olvi4* 1.0 1.0 1.0 (1.0)

olvi5* 1.0 1.0 1.0 (1.0)

olvi6* 1.0 1.0 1.0 (1.0)

olvi7* 1.0 1.0 1.0 (1.0)

olvi8* 1.0 1.0 1.0 (1.0)

olvi9* 1.0 1.0 1.0 (1.0)

olvi10* 1.0 1.0 1.0 (1.0)

standard and adapted CIELAB

LAB*LAB 56.71 -0.23 2.14

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

olvi4* 0.75 0.75 0.75 (1.0)

olvi5* 0.75 0.75 0.75 (1.0)

olvi6* 0.75 0.75 0.75 (1.0)

olvi7* 0.75 0.75 0.75 (1.0)

olvi8* 0.75 0.75 0.75 (1.0)

olvi9* 0.75 0.75 0.75 (1.0)

olvi10* 0.75 0.75 0.75 (1.0)

standard and adapted CIELAB

LAB*LAB 56.71 -0.23 2.14

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

LAB*Lab 56.71 0.0 0.0

relative Inform. Technology (IT)

