

BAM-Registrierung: 20060101-TG56/10S/S56G00NP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen
/TG56/ Form: 1/1/0, Serie: 1/1, Seite: 1 Seitenzählung 1

Siehe ähnliche Dateien: <http://www.ps.bam.de/TG56/>
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1

/TG56/ Form: 1/10, Serie: 1/1, Seite: 1 Seitenzahl: 1

Seitenzahl 1

TG560-7, 5 stufige Reihen für konstanten CIELAB Buntton $31/360 = 0.086$ (links)

BAM-Prüfvorlage TG56; Farbmatrik-Systeme MRS18a & ÖRS18 Input: `olv* setrgbcolor`

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttöne **Output: no change compared to input**

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

Eingabe: Farbmétrisches Reflexions-System MRS18a

für Buntton $h^* = lab^*h = 94/360 = 0.262$

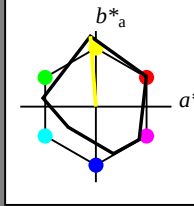
lab*tch und lab*nch

D65: Buntton J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit t



%Umfang

$$u^*_{\text{rel}} = 92$$
MRS18a; adaptierte CIELAB-Daten

	$L^*=L_a^* a_a^*$	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$	
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularität

 $\sigma^*_{\text{II,rel}} = 42$ $\delta^* = 40$

relative Inform. Technology (IT)				
<i>olvi3*</i>	1.0	1.0	1.0	(1.0)
<i>cmyn3*</i>	0.0	0.0	0.0	(0.0)
<i>olvi4*</i>	1.0	1.0	1.0	1.0
<i>cmyn4*</i>	0.0	0.0	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	95.41	0.01	0.0	
LAB*LAB _a	95.41	0.0	0.0	

<i>relative Inform. Technology (IT)</i>			
<i>olvi3*</i>	1.0	1.0	0.75 (1.0)
<i>cmyn3*</i>	0.0	0.0	0.25 (0.0)
<i>olvi4*</i>	1.0	1.0	0.75 1.0
<i>cmyn4*</i>	0.0	0.0	0.25 0.0
<i>standard and adapted CIELAB</i>			
<i>LAB*LAB</i>	94.22	-1.8	23.29
<i>LAB*LABa</i>	94.22	-1.81	23.29

relative Inform. Technology (IT)			
lvi3*	1.0	1.0	0.5 (1.0)
myn3*	0.0	0.0	0.5 (0.0)
lvi4*	1.0	1.0	0.5 1.0
myn4*	0.0	0.0	0.5 0.0
standard and adapted CIELAB			
AB*LAB	93.05	-3.61	46.59
AB*LAB ₀	93.05	-3.62	46.50

Active Inform. Technology (IT)			
3*	1.0	1.0	0.25 (1.0)
n3*	0.0	0.0	0.75 (0.0)
4*	1.0	1.0	0.25 1.0
n4*	0.0	0.0	0.75 0.0
Standard and adapted CIELAB			
3*LAB	91.87	-5.43	69.88
2*LAB	21.97	-2.7	69.99

ve Inform. Technology (IT)	1.0	1.0	0.0	(1.0)
* 0.0	0.0	0.0	1.0	(0.0)
1.0	1.0	0.0	1.0	1.0
* 0.0	0.0	1.0	0.0	0.0
LAB	90.69	-7.25	93.17	

Ba	56.71	0.0	0.0
Ha	50.0	0.01	-
CIELAB <i>lab</i> *			
0.5	0.0	0.0	
0.5	0.0	-	
0.5	0.0	-	
Natural Colour (NC)			
0.5	0.0	0.0	
0.5	0.0	-	
0.5	0.0	-	

55.45	-2.56	22.94
37.5	23.09	96.39
ELAB lab*		
0.484	-0.027	0.248
0.375	0.25	0.268
0.5	0.25	0.268
natural Colour (NC)		
0.484	-0.024	0.249
0.375	0.25	0.266

54.15	5.32	47.83
54.19	-5.13	45.87
25.01	46.16	96.39
LAB lab*		
0.467	-0.055	0.497
0.25	0.5	0.268
0.5	0.5	0.268
lral Colour (NC)		
0.467	-0.048	0.497
0.25	0.5	0.266

Schwarz

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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	0.25
cmyn4*	0.0	0.0	0.0	0.75
standard and adapted CIELAB				
LAB*LAB	37.36	0.07	0.01	
LAB*LAB _a	37.36	0.0	0.0	

relative Inform. Technology (IT)				
olvi3*	0.25	0.25	0.0	(1.0)
cmyn3*	0.75	0.75	1.0	(0.0)
olvi4*	1.0	1.0	0.75	0.25
cmyn4*	0.0	0.0	0.25	0.75
standard and adapted CIELAB				
LAB*LAB	36.18	-1.73	23.31	
LAB*LABa	36.18	-1.81	23.29	

0,75
relative

systeme MRS1

0

at: *no change* L

compared to input

IG560-7, 5 stufige Reihen für konstanten CIELAB Buntton 94/360 = 0.262 (links)

BAM-Prüfvorlage TG56; Farbmimetrik-Systeme MRS18a & ORS18 Input: `olv* setrgbcolor`

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttöne **one**: no change compared to input

5 stufige Reihen für konstanten CIELAB Buntton $96/360 = 0.268$ (rechts)

-Siehe ähnliche Dateien: <http://www.ps.bam.de/TG56/>
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM-Registrierung: 20060101-TG56/10S/556G03NP.PS/.PDF BAM-Material: Code=rha4ta
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen
/TG56/ Form: #1/0, Seite: 1/1, Seite: 4
Seitenanzahl: 4

Material: Code=
Systemen
p: 1/1, Seite: 4
Seitenzahl

D65: 2 Koordinaten-Daten von 5stufi

für 10 Bunttöne: *no change compared to input*

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttöne

output: no change compared to input

Eingabe: Farbmetrisches Reflexions-System MRS18a

für Buntton $h^* = lab^*h = 290/360 = 0.807$

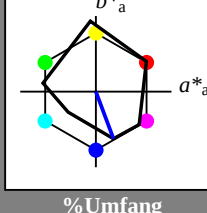
lab^*ch und lab^*nch

D65: Buntton B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 92$

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)

olvi11* 1.0 1.0 1.0 (1.0)

olvi12* 1.0 1.0 1.0 (1.0)

olvi13* 1.0 1.0 1.0 (1.0)

olvi14* 1.0 1.0 1.0 (1.0)

olvi15* 1.0 1.0 1.0 (1.0)

olvi16* 1.0 1.0 1.0 (1.0)

olvi17* 1.0 1.0 1.0 (1.0)

olvi18* 1.0 1.0 1.0 (1.0)

olvi19* 1.0 1.0 1.0 (1.0)

olvi20* 1.0 1.0 1.0 (1.0)

olvi21* 1.0 1.0 1.0 (1.0)

olvi22* 1.0 1.0 1.0 (1.0)

olvi23* 1.0 1.0 1.0 (1.0)

olvi24* 1.0 1.0 1.0 (1.0)

olvi25* 1.0 1.0 1.0 (1.0)

olvi26* 1.0 1.0 1.0 (1.0)

olvi27* 1.0 1.0 1.0 (1.0)

olvi28* 1.0 1.0 1.0 (1.0)

olvi29* 1.0 1.0 1.0 (1.0)

olvi30* 1.0 1.0 1.0 (1.0)

olvi31* 1.0 1.0 1.0 (1.0)

olvi32* 1.0 1.0 1.0 (1.0)

olvi33* 1.0 1.0 1.0 (1.0)

olvi34* 1.0 1.0 1.0 (1.0)

olvi35* 1.0 1.0 1.0 (1.0)

olvi36* 1.0 1.0 1.0 (1.0)

olvi37* 1.0 1.0 1.0 (1.0)

olvi38* 1.0 1.0 1.0 (1.0)

olvi39* 1.0 1.0 1.0 (1.0)

olvi40* 1.0 1.0 1.0 (1.0)

olvi41* 1.0 1.0 1.0 (1.0)

olvi42* 1.0 1.0 1.0 (1.0)

olvi43* 1.0 1.0 1.0 (1.0)

olvi44* 1.0 1.0 1.0 (1.0)

olvi45* 1.0 1.0 1.0 (1.0)

olvi46* 1.0 1.0 1.0 (1.0)

olvi47* 1.0 1.0 1.0 (1.0)

olvi48* 1.0 1.0 1.0 (1.0)

olvi49* 1.0 1.0 1.0 (1.0)

olvi50* 1.0 1.0 1.0 (1.0)

olvi51* 1.0 1.0 1.0 (1.0)

olvi52* 1.0 1.0 1.0 (1.0)

olvi53* 1.0 1.0 1.0 (1.0)

olvi54* 1.0 1.0 1.0 (1.0)

olvi55* 1.0 1.0 1.0 (1.0)

olvi56* 1.0 1.0 1.0 (1.0)

olvi57* 1.0 1.0 1.0 (1.0)

olvi58* 1.0 1.0 1.0 (1.0)

olvi59* 1.0 1.0 1.0 (1.0)

olvi60* 1.0 1.0 1.0 (1.0)

olvi61* 1.0 1.0 1.0 (1.0)

olvi62* 1.0 1.0 1.0 (1.0)

olvi63* 1.0 1.0 1.0 (1.0)

olvi64* 1.0 1.0 1.0 (1.0)

olvi65* 1.0 1.0 1.0 (1.0)

olvi66* 1.0 1.0 1.0 (1.0)

olvi67* 1.0 1.0 1.0 (1.0)

olvi68* 1.0 1.0 1.0 (1.0)

olvi69* 1.0 1.0 1.0 (1.0)

olvi70* 1.0 1.0 1.0 (1.0)

olvi71* 1.0 1.0 1.0 (1.0)

olvi72* 1.0 1.0 1.0 (1.0)

olvi73* 1.0 1.0 1.0 (1.0)

olvi74* 1.0 1.0 1.0 (1.0)

olvi75* 1.0 1.0 1.0 (1.0)

olvi76* 1.0 1.0 1.0 (1.0)

olvi77* 1.0 1.0 1.0 (1.0)

olvi78* 1.0 1.0 1.0 (1.0)

olvi79* 1.0 1.0 1.0 (1.0)

olvi80* 1.0 1.0 1.0 (1.0)

olvi81* 1.0 1.0 1.0 (1.0)

olvi82* 1.0 1.0 1.0 (1.0)

olvi83* 1.0 1.0 1.0 (1.0)

olvi84* 1.0 1.0 1.0 (1.0)

olvi85* 1.0 1.0 1.0 (1.0)

olvi86* 1.0 1.0 1.0 (1.0)

olvi87* 1.0 1.0 1.0 (1.0)

olvi88* 1.0 1.0 1.0 (1.0)

olvi89* 1.0 1.0 1.0 (1.0)

olvi90* 1.0 1.0 1.0 (1.0)

olvi91* 1.0 1.0 1.0 (1.0)

olvi92* 1.0 1.0 1.0 (1.0)

olvi93* 1.0 1.0 1.0 (1.0)

olvi94* 1.0 1.0 1.0 (1.0)

olvi95* 1.0 1.0 1.0 (1.0)

olvi96* 1.0 1.0 1.0 (1.0)

olvi97* 1.0 1.0 1.0 (1.0)

olvi98* 1.0 1.0 1.0 (1.0)

olvi99* 1.0 1.0 1.0 (1.0)

olvi100* 1.0 1.0 1.0 (1.0)

olvi101* 1.0 1.0 1.0 (1.0)

olvi102* 1.0 1.0 1.0 (1.0)

olvi103* 1.0 1.0 1.0 (1.0)

olvi104* 1.0 1.0 1.0 (1.0)

olvi105* 1.0 1.0 1.0 (1.0)

olvi106* 1.0 1.0 1.0 (1.0)

olvi107* 1.0 1.0 1.0 (1.0)

olvi108* 1.0 1.0 1.0 (1.0)

olvi109* 1.0 1.0 1.0 (1.0)

olvi110* 1.0 1.0 1.0 (1.0)

olvi111* 1.0 1.0 1.0 (1.0)

olvi112* 1.0 1.0 1.0 (1.0)

olvi113* 1.0 1.0 1.0 (1.0)

olvi114* 1.0 1.0 1.0 (1.0)

olvi115* 1.0 1.0 1.0 (1.0)

olvi116* 1.0 1.0 1.0 (1.0)

olvi117* 1.0 1.0 1.0 (1.0)

olvi118* 1.0 1.0 1.0 (1.0)

olvi119* 1.0 1.0 1.0 (1.0)

olvi120* 1.0 1.0 1.0 (1.0)

olvi121* 1.0 1.0 1.0 (1.0)

olvi122* 1.0 1.0 1.0 (1.0)

olvi123* 1.0 1.0 1.0 (1.0)

olvi124* 1.0 1.0 1.0 (1.0)

olvi125* 1.0 1.0 1.0 (1.0)

olvi126* 1.0 1.0 1.0 (1.0)

olvi127* 1.0 1.0 1.0 (1.0)

olvi128* 1.0 1.0 1.0 (1.0)

olvi129* 1.0 1.0 1.0 (1.0)

olvi130* 1.0 1.0 1.0 (1.0)

olvi131* 1.0 1.0 1.0 (1.0)

olvi132* 1.0 1.0 1.0 (1.0)

olvi133* 1.0 1.0 1.0 (1.0)

olvi134* 1.0 1.0 1.0 (1.0)

olvi135* 1.0 1.0 1.0 (1.0)

olvi136* 1.0 1.0 1.0 (1.0)

olvi137* 1.0 1.0 1.0 (1.0)

olvi138* 1.0 1.0 1.0 (1.0)

olvi139* 1.0 1.0 1.0 (1.0)

olvi140* 1.0 1.0 1.0 (1.0)

olvi141* 1.0 1.0 1.0 (1.0)

olvi142* 1.0 1.0 1.0 (1.0)

olvi143* 1.0 1.0 1.0 (1.0)

olvi144* 1.0 1.0 1.0 (1.0)

olvi145* 1.0 1.0 1.0 (1.0)

olvi146* 1.0 1.0 1.0 (1.0)

olvi147* 1.0 1.0 1.0 (1.0)

olvi148* 1.0 1.0 1.0 (1.0)

olvi149* 1.0 1.0 1.0 (1.0)

olvi150* 1.0 1.0 1.0 (1.0)

olvi151* 1.0 1.0 1.0 (1.0)

olvi152* 1.0 1.0 1.0 (1.0)

olvi153* 1.0 1.0 1.0 (1.0)

olvi154* 1.0 1.0 1.0 (1.0)

olvi155* 1.0 1.0 1.0 (1.0)

olvi156* 1.0 1.0 1.0 (1.0)

olvi157* 1.0 1.0 1.0 (1.0)

olvi158* 1.0 1.0 1.0 (1.0)

olvi159* 1.0 1.0 1.0 (1.0)

olvi160* 1.0 1.0 1.0 (1.0)

olvi161* 1.0 1.0 1.0 (1.0)

olvi162* 1.0 1.0 1.0 (1.0)

olvi163* 1.0 1.0 1.0 (1.0)

olvi164* 1.0 1.0 1.0 (1.0)

olvi165* 1.0 1.0 1.0 (1.0)

olvi166* 1.0 1.0 1.0 (1.0)

olvi167* 1.0 1.0 1.0 (1.0)

olvi168* 1.0 1.0 1.0 (1.0)

olvi169* 1.0 1.0 1.0 (1.0)

olvi170* 1.0 1.0 1.0 (1.0)

olvi171* 1.0 1.0 1.0 (1.0)

olvi172* 1.0 1.0 1.0 (1.0)

olvi173* 1.0 1.0 1.0 (1.0)

olvi174* 1.0 1.0 1.0 (1.0)

olvi175* 1.0 1.0 1.0 (1.0)

olvi176* 1.0 1.0 1.0 (1.0)

olvi177* 1.0 1.0 1.0 (1.0)

olvi178* 1.0 1.0 1.0 (1.0)

olvi179* 1.0 1.0 1.0 (1.0)

olvi180* 1.0 1.0 1.0 (1.0)

olvi181* 1.0 1.0 1.0 (1.0)

olvi182* 1.0 1.0 1.0 (1.0)

olvi183* 1.0 1.0 1.0 (1.0)

olvi184* 1.0 1.0 1.0 (1.0)

olvi185* 1.0 1.0 1.0 (1.0)

olvi186* 1.0 1.0 1.0 (1.0)

olvi187* 1.0 1.0 1.0 (1.0)

olvi188* 1.0 1.0 1.0 (1.0)

olvi189* 1.0 1.0 1.0 (1.0)

olvi190* 1.0 1.0 1.0 (1.0)

olvi191* 1.0 1.0 1.0 (1.0)

olvi192* 1.0 1.0 1.0 (1.0)

olvi193* 1.0 1.0 1.0 (1.0)

olvi194* 1.0 1.0 1.0 (1.0)

olvi195* 1.0 1.0 1.0 (1.0)

olvi196* 1.0 1.0 1.0 (1.0)

olvi197* 1.0 1.0 1.0 (1.0)

olvi198* 1.0 1.0 1.0 (1.0)

olvi199* 1.0 1.0 1.0 (1.0)

olvi200* 1.0 1.0 1.0 (1.0)

olvi201* 1.0 1.0 1.0 (1.0)

olvi202* 1.0 1.0 1.0 (1.0)

olvi203* 1.0 1.0 1.0 (1.0)

olvi204* 1.0 1.0 1.0 (1.0)

olvi205* 1.0 1.0 1.0 (1.0)

olvi206* 1.0 1.0 1.0 (1.0)

olvi207* 1.0 1.0 1.0 (1.0)

olvi208* 1.0 1.0 1.0 (1.0)

olvi209* 1.0 1.0 1.0 (1.0)

olvi210* 1.0 1.0 1.0 (1.0)

olvi211* 1.0 1.0 1.0 (1.0)

olvi212* 1.0 1.0 1.0 (1.0)

olvi213*

Eingabe: Farbmetrisches Reflexions-System MRS18a

für Buntton $h^* = lab^*h = 323/360 = 0.896$

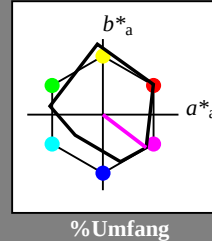
lab^*ch und lab^*nch

D65: Buntton B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



MRS18a; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularität

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	95.41	0.01	0.0
LAB*Lab	95.41	0.01	0.0
LAB*Lab	95.41	0.01	0.0
LAB*Lab	95.41	0.01	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0
lab*lab	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	1.0	0.0	0.0
lab*trj	0.0	1.0	0.0
lab*trj	0.0	0.0	1.0
lab*trj	0.0	0.0	0.0

standard and adapted CIELAB

LAB*Lab	80.29	14.31	-10.89
LAB*Lab	80.29	14.31	-10.89
LAB*Lab	80.29	14.31	-10.89
LAB*Lab	80.29	14.31	-10.89

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	76.06	0.03	0.0
LAB*Lab	76.06	0.03	0.0
LAB*Lab	76.06	0.03	0.0
LAB*Lab	76.06	0.03	0.0

relative CIELAB lab*

lab*lab	0.895	0.199	-0.15
lab*lab	0.895	0.199	-0.15
lab*lab	0.895	0.199	-0.15
lab*lab	0.895	0.199	-0.15

relative Natural Colour (NC)

lab*trj	0.895	0.199	-0.15
lab*trj	0.895	0.199	-0.15
lab*trj	0.895	0.199	-0.15
lab*trj	0.895	0.199	-0.15

standard and adapted CIELAB

LAB*Lab	65.17	28.68	-21.78
LAB*Lab	65.17	28.68	-21.78
LAB*Lab	65.17	28.68	-21.78
LAB*Lab	65.17	28.68	-21.78

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	60.94	14.37	-10.88
LAB*Lab	60.94	14.37	-10.88
LAB*Lab	60.94	14.37	-10.88
LAB*Lab	60.94	14.37	-10.88

relative CIELAB lab*

lab*lab	0.699	0.398	-0.302
lab*lab	0.699	0.398	-0.302
lab*lab	0.699	0.398	-0.302
lab*lab	0.699	0.398	-0.302

relative Natural Colour (NC)

lab*trj	0.699	0.398	-0.302
lab*trj	0.699	0.398	-0.302
lab*trj	0.699	0.398	-0.302
lab*trj	0.699	0.398	-0.302

standard and adapted CIELAB

LAB*Lab	50.06	43.01	-32.68
LAB*Lab	50.06	43.01	-32.68
LAB*Lab	50.06	43.01	-32.68
LAB*Lab	50.06	43.01	-32.68

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	0.05	0.0
LAB*Lab	56.71	0.05	0.0
LAB*Lab	56.71	0.05	0.0
LAB*Lab	56.71	0.05	0.0

relative CIELAB lab*

lab*lab	0.555	0.199	-0.15
lab*lab	0.555	0.199	-0.15
lab*lab	0.555	0.199	-0.15
lab*lab	0.555	0.199	-0.15

relative Natural Colour (NC)

lab*trj	0.555	0.199	-0.15
lab*trj	0.555	0.199	-0.15
lab*trj	0.555	0.199	-0.15
lab*trj	0.555	0.199	-0.15

standard and adapted CIELAB

LAB*Lab	45.83	28.7	-21.78
LAB*Lab	45.83	28.7	-21.78
LAB*Lab	45.83	28.7	-21.78
LAB*Lab	45.83	28.7	-21.78

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	0.05	0.0
LAB*Lab	56.71	0.05	0.0
LAB*Lab	56.71	0.05	0.0
LAB*Lab	56.71	0.05	0.0

relative CIELAB lab*

lab*lab	0.414	0.597	-0.453
lab*lab	0.414	0.597	-0.453
lab*lab	0.414	0.597	-0.453
lab*lab	0.414	0.597	-0.453

relative Natural Colour (NC)

lab*trj	0.414	0.597	-0.453
lab*trj	0.414	0.597	-0.453
lab*trj	0.414	0.597	-0.453
lab*trj	0.414	0.597	-0.453

standard and adapted CIELAB

LAB*Lab	34.95	57.34	-43.57
LAB*Lab	34.95	57.34	-43.57
LAB*Lab	34.95	57.34	-43.57
LAB*Lab	34.95	57.34	-43.57

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	0.05	0.0
LAB*Lab	56.71	0.05	0.0
LAB*Lab	56.71	0.05	0.0
LAB*Lab	56.71	0.05	0.0

relative CIELAB lab*

lab*lab	0.359	0.324	-0.38
lab*lab	0.359	0.324	-0.38
lab*lab	0.359	0.324	-0.38
lab*lab	0.359	0.324	-0.38

relative Natural Colour (NC)

lab*trj	0.359	0.324	-0.38
lab*trj	0.359	0.324	-0.38
lab*trj	0.359	0.324	-0.38
lab*trj	0.359	0.324	-0.38

standard and adapted CIELAB

LAB*Lab	30.72	42.95	-32.7
LAB*Lab	30.72	42.95	-32.7
LAB*Lab	30.72	42.95	-32.7
LAB*Lab	30.72	42.95	-32.7

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	37.36	18.02	0.01
LAB*Lab	37.36	18.02	0.01
LAB*Lab	37.36	18.02	0.01
LAB*Lab	37.36	18.02	0.01

relative CIELAB lab*

lab*lab	0.305	0.199	-0.215
lab*lab	0.305	0.199	-0.215
lab*lab	0.305	0.199	-0.215
lab*lab	0.305	0.199	-0.215

relative Natural Colour (NC)

lab*trj	0.305	0.199	-0.215
lab*trj	0.305	0.199	-0.215
lab*trj	0.305	0.199	-0.215
lab*trj	0.305	0.199	-0.215

standard and adapted CIELAB

LAB*Lab	26.48	28.72	-11.77
LAB*Lab	26.48	28.72	-11.77
LAB*Lab	26.48	28.72	-11.77
LAB*Lab	26.48	28.72	-11.77

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	26.48	28.72	-11.77
LAB*Lab	26.48	28.72	-11.77
LAB*Lab	26.48	28.72	-11.77
LAB*Lab	26.48	28.72	-11.77

relative CIELAB lab*

lab*lab	0.255	0.199	-0.15
lab*lab	0.255	0.199	-0.15
lab*lab	0.255	0.199	-0.15
lab*lab	0.255	0.199	-0.15

relative Natural Colour (NC)

lab*trj	0.255	0.199	-0.15
lab*trj	0.255	0.199	-0.15
lab*trj	0.255	0.199	-0.15
lab*trj	0.255	0.199	-0.15

standard and adapted CIELAB

LAB*Lab	18.02	0.0	0.0
LAB*Lab	18.02	0.0	0.0
LAB*Lab	18.02	0.0	0.0
LAB*Lab	18.02	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	18.02	0.0	0.0
LAB*Lab	18.02	0.0	0.0
LAB*Lab	18.02	0.0	0.0
LAB*Lab	18.02	0.0	0.0

relative CIELAB lab*

lab*lab	0.195	0.497	-0.054
lab*lab	0.195	0.497	-0.054
lab*lab	0.195	0.497	-0.054
lab*lab	0.195	0.497	-0.054

relative Natural Colour (NC)

lab*trj	0.195	0.497	-0.054
lab*trj	0.195	0.497	-0.054
lab*trj	0.195	0.497	-0.054
lab*trj	0.195	0.497	-0.054

standard and adapted CIELAB

LAB*Lab	33.08	37.63	-1.17
LAB*Lab	33.08	37.63	-1.17
LAB*Lab	33.08	37.63	-1.17
LAB*Lab	33.08	37.63	-1.17

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	33.08	37.63	-1.17
LAB*Lab	33.08	37.63	-1.17
LAB*Lab	33.08	37.63	-1.17
LAB*Lab	33.08	37.63	-1.17

Eingabe: Farbmetrisches Reflexions-System MRS18a

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

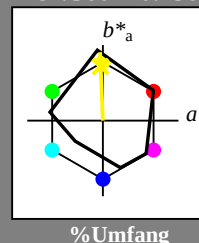
lab^*ch und lab^*nch

D65: Buntton J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

Dreiecks-Helligkeit t^*



MRS18a; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularität

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 29$

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 0.01 0.0
LAB*LABa 95.41 0.01 0.0
LAB*TCHa 99.99 0.01 0.0

relative Inform. Technology (IT)
olvi3* 1.0 0.988 0.75 (1.0)
cmyn3* 0.0 0.012 0.25 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 93.73 -0.91 22.65
LAB*LABa 93.73 -0.91 22.65
LAB*TCHa 97.5 22.67 92.33

relative Inform. Technology (IT)
olvi3* 1.0 0.976 0.5 (1.0)
cmyn3* 0.0 0.024 0.5 (0.0)
olvi4* 1.0 0.976 0.5 (1.0)
cmyn4* 0.0 0.024 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 92.06 -1.83 45.31
LAB*LABa 92.06 -1.83 45.31
LAB*TCHa 75.0 45.35 92.34

relative Inform. Technology (IT)
olvi3* 1.0 0.964 0.25 (1.0)
cmyn3* 0.0 0.036 0.25 (0.0)
olvi4* 1.0 0.964 0.25 (1.0)
cmyn4* 0.0 0.036 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 90.38 -2.75 67.96
LAB*LABa 90.38 -2.75 67.96
LAB*TCHa 62.5 68.02 92.34

relative Inform. Technology (IT)
olvi3* 1.0 0.952 0.0 (1.0)
cmyn3* 0.0 0.048 1.0 (0.0)
olvi4* 1.0 0.952 0.0 (1.0)
cmyn4* 0.0 0.048 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 88.71 -3.67 90.61
LAB*LABa 88.71 -3.67 90.61
LAB*TCHa 50.0 90.68 92.34

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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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 21.14
LAB*LABa 56.71 0.23 21.14
LAB*TCHa 50.0 0.01 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)
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TG560-7, 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (rechts)

BAM-Prüfvorlage TG56; Farbmetrik-Systeme MRS18a & ORS18

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen

Input: `olv* setrgbcolor`
Output: `no change compared to input`

Seitenzahl 5

Eingabe: Farbmetrisches Reflexions-System MRS18a

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

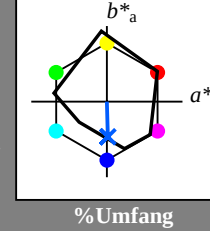
lab^*ch und lab^*nch

D65: Buntton B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 1.0

Dreiecks-Helligkeit t^*



MRS18a; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularität

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 29$

Ausgabe: Farbmetrisches Reflexions-System ORS18

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

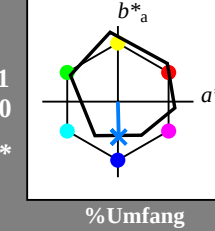
lab^*ch und lab^*nch

D65: Buntton B

LCH*Ma: 42 45 271

rgb*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	50.9	-62.79	34.95	71.87	151
CLMa	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

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

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

TG560-7, 5 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)

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

BAM-Prüfvorlage TG56; Farbmetrik-Systeme MRS18a & ORS18

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen

Input: `olv* setrgbcolor`
Output: `no change compared to input`