

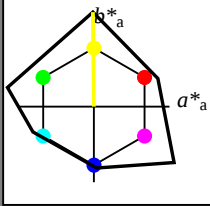
Eingabe: Farbmetrisches Reflexions-System NCS11

für Buntton $h^* = lab^*h = 91/360 = 0.252$

lab^*ch und lab^*nch

D65: Buntton J
LCH*Ma: 91 125 91
rgb*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

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 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*TCa 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*nce 1.0 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 74.31 0.02 0.0
LAB*Lab 74.31 0.02 0.0
LAB*TCa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.988 -0.002 0.25
lab*ch 0.875 0.25 0.252
lab*nch 0.0 0.25 0.252
relative Natural Colour (NC)
lab*trj 0.988 0.01 0.25
lab*nce 0.875 0.25 0.243
lab*nce 0.0 0.25 0.252

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 93.38 -0.62 62.5
LAB*Lab 93.38 -0.62 62.5
LAB*TCa 93.38 -0.62 62.5

relative CIELAB lab*
lab*lab 0.976 -0.004 0.5
lab*ch 0.75 0.5 0.252
lab*nch 0.0 0.5 0.252
relative Natural Colour (NC)
lab*trj 0.976 0.02 0.493
lab*nce 0.75 0.5 0.243
lab*nce 0.0 0.5 0.252

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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 92.37 -0.94 93.76
LAB*Lab 92.37 -0.94 93.76
LAB*TCa 92.37 -0.94 93.76

relative CIELAB lab*
lab*lab 0.964 -0.007 0.75
lab*ch 0.625 0.75 0.252
lab*nch 0.0 0.75 0.252
relative Natural Colour (NC)
lab*trj 0.964 0.031 0.749
lab*nce 0.625 0.75 0.243
lab*nce 0.0 0.75 0.252

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 91.36 -1.27 125.0
LAB*Lab 91.36 -1.27 125.0
LAB*TCa 91.36 -1.27 125.0

relative CIELAB lab*
lab*lab 0.952 -0.009 1.0
lab*ch 0.5 1.0 0.252
lab*nch 0.0 1.0 0.252
relative Natural Colour (NC)
lab*trj 0.952 0.041 0.999
lab*nce 0.5 1.0 0.243
lab*nce 0.0 1.0 0.252

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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.36 -1.27 125.0
LAB*Lab 91.36 -1.27 125.0
LAB*TCa 91.36 -1.27 125.0

relative CIELAB lab*
lab*lab 0.952 -0.009 1.0
lab*ch 0.5 1.0 0.252
lab*nch 0.0 1.0 0.252
relative Natural Colour (NC)
lab*trj 0.952 0.041 0.999
lab*nce 0.5 1.0 0.243
lab*nce 0.0 1.0 0.252

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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.04 0.0
LAB*Lab 53.21 0.04 0.0
LAB*TCa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.738 0.01 0.25
lab*ch 0.625 0.25 0.252
lab*nch 0.25 0.25 0.252
relative Natural Colour (NC)
lab*trj 0.738 0.01 0.25
lab*nce 0.625 0.25 0.243
lab*nce 0.25 0.25 0.252

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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.29 -0.66 62.52
LAB*Lab 72.29 -0.66 62.52
LAB*TCa 72.29 -0.66 62.52

relative CIELAB lab*
lab*lab 0.964 -0.007 0.75
lab*ch 0.625 0.75 0.252
lab*nch 0.0 0.75 0.252
relative Natural Colour (NC)
lab*trj 0.964 0.031 0.749
lab*nce 0.625 0.75 0.243
lab*nce 0.0 0.75 0.252

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 0.5 (1.0)
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standard and adapted CIELAB
LAB*LAB 91.36 -1.27 125.0
LAB*Lab 91.36 -1.27 125.0
LAB*TCa 91.36 -1.27 125.0

relative CIELAB lab*
lab*lab 0.952 -0.009 1.0
lab*ch 0.5 1.0 0.252
lab*nch 0.0 1.0 0.252
relative Natural Colour (NC)
lab*trj 0.952 0.041 0.999
lab*nce 0.5 1.0 0.243
lab*nce 0.0 1.0 0.252

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 0.5 (1.0)
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standard and adapted CIELAB
LAB*LAB 91.36 -1.27 125.0
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LAB*TCa 91.36 -1.27 125.0

relative CIELAB lab*
lab*lab 0.952 -0.009 1.0
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lab*trj 0.952 0.041 0.999
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lab*nce 0.0 1.0 0.252

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
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olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.36 -1.27 125.0
LAB*Lab 91.36 -1.27 125.0
LAB*TCa 91.36 -1.27 125.0

relative CIELAB lab*
lab*lab 0.952 -0.009 1.0
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lab*ch 0.625 0.25 0.252
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olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.36 -1.27 125.0
LAB*Lab 91.36 -1.27 125.0
LAB*TCa 91.36 -1.27 125.0

relative CIELAB lab*
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standard and adapted CIELAB
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LAB*Lab 91.36 -1.27 125.0
LAB*TCa 91.36 -1.27 125.0

relative CIELAB lab*
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lab*ch 0.5 1.0 0.252
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cmyn4* 0.0 0.0 0.5 (0.0)
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LAB*LAB 91.36 -1.27 125.0
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LAB*TCa 91.36 -1.27 125.0

relative CIELAB lab*
lab*lab 0.952 -0.009 1.0
lab*ch 0.5 1.0 0.252
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lab*trj 0.952 0.041 0.999
lab*nce 0.5 1.0 0.243
lab*nce 0.0 1.0 0.252

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 11.01 0.07 0.01
LAB*Lab 11.01 0.07 0.01
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.238 -0.002 0.25
lab*ch 0.125 0.25 0.252
lab*nch 0.0 0.25 0.252
relative Natural Colour (NC)
lab*trj 0.238 0.01 0.25
lab*nce 0.125 0.25 0.243
lab*nce 0.0 0.25 0.252

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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.04 0.0
LAB*Lab 53.21 0.04 0.0
LAB*TCa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.738 0.01 0.25
lab*ch 0.625 0.25 0.252
lab*nch 0.25 0.25 0.252
relative Natural Colour (NC)
lab*trj 0.738 0.01 0.25
lab*nce 0.625 0.25 0.243
lab*nce 0.25 0.25 0.252

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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.29 -0.66 62.52
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LAB*TCa 72.29 -0.66 62.52

relative CIELAB lab*
lab*lab 0.964 -0.007 0.75
lab*ch 0.625 0.75 0.252
lab*nch 0.0 0.75 0.252
relative Natural Colour (NC)
lab*trj 0.964 0.031 0.749
lab*nce 0.625 0.75 0.243
lab*nce 0.0 0.75 0.252

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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.36 -1.27 125.0
LAB*Lab 91.36 -1.27 125.0
LAB*TCa 91.36 -1.27 125.0

relative CIELAB lab*
lab*lab 0.952 -0.009 1.0
lab*ch 0.5 1.0 0.252
lab*nch 0.0 1.0 0.252
relative Natural Colour (NC)
lab*trj 0.952 0.041 0.999
lab*nce 0.5 1.0 0.243
lab*nce 0.0 1.0 0.252

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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.36 -1.27 125.0
LAB*Lab 91.36 -1.27 125.0
LAB*TCa 91.36 -1.27 125.0

relative CIELAB lab*
lab*lab 0.952 -0.009 1.0
lab*ch 0.5 1.0 0.252
lab*nch 0.0 1.0 0.252
relative Natural Colour (NC)
lab*trj 0.952 0.041 0.999
lab*nce 0.5 1.0 0.243
lab*nce 0.0 1.0 0.252

TG580-7, 5 stufige Reihen für konstanten CIELAB Buntton 91/360 = 0.252 (links)

5 stufige Reihen für konstanten CIELAB Buntton 94/360 = 0.261 (rechts)

BAM-Prüfvorlage TG58; Farbmetrik-Systeme ORS18 & ORS18 input: $olv^* setrgbcolor$

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen; Startup (S) data dependend

Eingabe: Farbmetrisches Reflexions-System NCS11

für Buntton $h^* = lab^*h = 203/360 = 0.563$

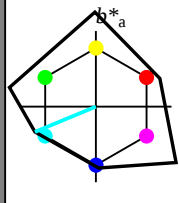
lab^*ch und lab^*nch

D65: Buntton G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

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 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 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 74.31 0.02 0.0
LAB*LABa 74.31 0.02 0.0
LAB*LABb 74.31 0.02 0.0
LAB*LABc 74.31 0.02 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 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 53.21 0.04 0.0
LAB*LABa 53.21 0.04 0.0
LAB*LABb 53.21 0.04 0.0
LAB*LABc 53.21 0.04 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 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 32.11 0.08 0.01
LAB*LABa 32.11 0.08 0.01
LAB*LABb 32.11 0.08 0.01
LAB*LABc 32.11 0.08 0.01

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 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 11.01 0.01 0.0
LAB*LABa 11.01 0.01 0.0
LAB*LABb 11.01 0.01 0.0
LAB*LABc 11.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0

$n^* = 1.0$

NCS11; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	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

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

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 77.43 -40.26 -16.71
LAB*LABa 77.43 -40.26 -16.71
LAB*LABb 77.43 -40.26 -16.71
LAB*LABc 77.43 -40.26 -16.71

relative CIELAB lab*
lab*lab 0.787 -0.461 -0.191
lab*lab 0.787 0.5 0.563
lab*lab 0.787 0.5 0.563
lab*lab 0.787 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.787 -0.461 -0.191
lab*lab 0.787 0.5 0.563
lab*lab 0.787 0.5 0.563
lab*lab 0.787 0.5 0.563

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (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 56.33 -40.26 -16.71
LAB*LABa 56.33 -40.26 -16.71
LAB*LABb 56.33 -40.26 -16.71
LAB*LABc 56.33 -40.26 -16.71

relative CIELAB lab*
lab*lab 0.537 -0.418 -0.272
lab*lab 0.537 0.5 0.563
lab*lab 0.537 0.5 0.563
lab*lab 0.537 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.537 -0.418 -0.272
lab*lab 0.537 0.5 0.563
lab*lab 0.537 0.5 0.563
lab*lab 0.537 0.5 0.563

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 35.23 -40.26 -16.71
LAB*LABa 35.23 -40.26 -16.71
LAB*LABb 35.23 -40.26 -16.71
LAB*LABc 35.23 -40.26 -16.71

relative CIELAB lab*
lab*lab 0.287 -0.461 -0.191
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.287 -0.461 -0.191
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 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 23.11 -20.13 -8.35
LAB*LABa 23.11 -20.13 -8.35
LAB*LABb 23.11 -20.13 -8.35
LAB*LABc 23.11 -20.13 -8.35

relative CIELAB lab*
lab*lab 0.144 -0.23 -0.095
lab*lab 0.144 0.5 0.563
lab*lab 0.144 0.5 0.563
lab*lab 0.144 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.144 -0.23 -0.095
lab*lab 0.144 0.5 0.563
lab*lab 0.144 0.5 0.563
lab*lab 0.144 0.5 0.563

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 0.25 1.0 1.0 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olvi4* 0.25 1.0 1.0 (1.0)
cmyn4* 0.75 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 68.45 -60.41 -25.08
LAB*LABa 68.45 -60.41 -25.08
LAB*LABb 68.45 -60.41 -25.08
LAB*LABc 68.45 -60.41 -25.08

relative CIELAB lab*
lab*lab 0.681 -0.627 -0.409
lab*lab 0.681 0.5 0.563
lab*lab 0.681 0.5 0.563
lab*lab 0.681 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.681 -0.627 -0.409
lab*lab 0.681 0.5 0.563
lab*lab 0.681 0.5 0.563
lab*lab 0.681 0.5 0.563

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olvi4* 0.0 1.0 1.0 (1.0)
cmyn4* 0.75 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 59.47 -80.55 -33.44
LAB*LABa 59.47 -80.55 -33.44
LAB*LABb 59.47 -80.55 -33.44
LAB*LABc 59.47 -80.55 -33.44

relative CIELAB lab*
lab*lab 0.574 -0.922 -0.382
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.574 -0.922 -0.382
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olvi4* 0.0 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -80.55 -33.44
LAB*LABa 56.71 -80.55 -33.44
LAB*LABb 56.71 -80.55 -33.44
LAB*LABc 56.71 -80.55 -33.44

relative CIELAB lab*
lab*lab 0.574 -0.922 -0.382
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.574 -0.922 -0.382
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563

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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0
LAB*LABc 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0

$n^* = 0.00$

Schwarzheit n^*

relative Buntheit c^*

Ausgabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 218/360 = 0.605$

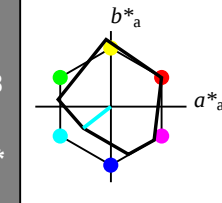
lab^*ch und lab^*nch

D65: Buntton G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 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)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 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*LABb 76.06 0.0 0.0
LAB*LABc 76.06 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 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 -80.55 -33.44
LAB*LABa 56.71 -80.55 -33.44
LAB*LABb 56.71 -80.55 -33.44
LAB*LABc 56.71 -80.55 -33.44

relative CIELAB lab*
lab*lab 0.574 -0.922 -0.382
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.574 -0.922 -0.382
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563

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 32.11 -20.13 -8.35
LAB*LABa 32.11 -20.13 -8.35
LAB*LABb 32.11 -20.13 -8.35
LAB*LABc 32.11 -20.13 -8.35

relative CIELAB lab*
lab*lab 0.287 -0.461 -0.191
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.287 -0.461 -0.191
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563

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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0
LAB*LABc 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0

$n^* = 1.0$

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 -80.55 -33.44
LAB*LABa 56.71 -80.55 -33.44
LAB*LABb 56.71 -80.55 -33.44
LAB*LABc 56.71 -80.55 -33.44

relative CIELAB lab*
lab*lab 0.574 -0.922 -0.382
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.574 -0.922 -0.382
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563
lab*lab 0.574 0.5 0.563

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 32.11 -20.13 -8.35
LAB*LABa 32.11 -20.13 -8.35
LAB*LABb 32.11 -20.13 -8.35
LAB*LABc 32.11 -20.13 -8.35

relative CIELAB lab*
lab*lab 0.287 -0.461 -0.191
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.287 -0.461 -0.191
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563
lab*lab 0.287 0.5 0.563

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 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 23.11 -20.13 -8.35
LAB*LABa 23.11 -20.13 -8.35
LAB*LABb 23.11 -20.13 -8.35
LAB*LABc 23.11 -20.13 -8.35

relative CIELAB lab*
lab*lab 0.144 -0.23 -0.095
lab*lab 0.144 0.5 0.563
lab*lab 0.144 0.5 0.563
lab*lab 0.144 0.5 0.563
relative Natural Colour (NC)
lab*lab 0.144 -0.23 -0.095
lab*lab 0.144 0.5 0.563
lab*lab 0.144 0.5 0.563
lab*lab 0.144 0.5 0.563

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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0
LAB*LABc 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0

$n^* = 0.00$

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.75 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -80.55 -33.44
LAB*LABa 56.71 -80.55 -33.44
LAB*LABb 56.71 -80.55 -33.44
LAB*LABc 56.71 -80.55 -33.44

Eingabe: Farbmetrisches Reflexions-System NCS11

für Buntton $h^* = lab^*h = 273/360 = 0.757$

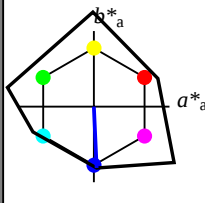
lab^*ch und lab^*nch

D65: Buntton B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

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 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 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 74.31 0.02 0.0
LAB*LABa 74.31 0.02 0.0
LAB*LABb 74.31 0.02 0.0
LAB*LABc 74.31 0.02 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (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 53.21 0.04 0.0
LAB*LABa 53.21 0.04 0.0
LAB*LABb 53.21 0.04 0.0
LAB*LABc 53.21 0.04 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.08 0.01
LAB*LABa 32.11 0.08 0.01
LAB*LABb 32.11 0.08 0.01
LAB*LABc 32.11 0.08 0.01

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LABa 11.01 0.07 0.01
LAB*LABb 11.01 0.07 0.01
LAB*LABc 11.01 0.07 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*lab 1.0 1.0 1.0 (1.0)
lab*lab 0.0 0.0 0.0 (0.0)
lab*lab 1.0 1.0 1.0 (1.0)
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0 (0.0)
lab*lab 1.0 1.0 1.0 (1.0)
lab*lab 0.0 0.0 0.0 (0.0)
lab*lab 1.0 1.0 1.0 (1.0)

$n^* = 1.0$

NCS11; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	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

%Regularität
 $g^*_{H,rel} = 46$
 $g^*_{C,rel} = 65$

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.21 1.85 -40.58
LAB*LABa 72.21 1.85 -40.58
LAB*LABb 72.21 1.85 -40.58
LAB*LABc 72.21 1.85 -40.58

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 51.11 1.87 -40.58
LAB*LABa 51.11 1.87 -40.58
LAB*LABb 51.11 1.87 -40.58
LAB*LABc 51.11 1.87 -40.58

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 30.01 1.89 -40.56
LAB*LABa 30.01 1.89 -40.56
LAB*LABb 30.01 1.89 -40.56
LAB*LABc 30.01 1.89 -40.56

relative CIELAB lab*
lab*lab 0.333 0.333 -0.748
lab*lab 0.333 0.333 0.757
lab*lab 0.333 0.333 0.757
lab*lab 0.333 0.333 0.757
relative Natural Colour (NC)
lab*lab 0.333 0.333 -0.748
lab*lab 0.333 0.333 0.757
lab*lab 0.333 0.333 0.757
lab*lab 0.333 0.333 0.757

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 20.5 0.91 -20.28
LAB*LABa 20.5 0.91 -20.28
LAB*LABb 20.5 0.91 -20.28
LAB*LABc 20.5 0.91 -20.28

relative CIELAB lab*
lab*lab 0.1113 0.011 -0.249
lab*lab 0.125 0.25 0.757
lab*lab 0.125 0.25 0.757
lab*lab 0.125 0.25 0.757
relative Natural Colour (NC)
lab*lab 0.1113 0.011 -0.249
lab*lab 0.125 0.25 0.757
lab*lab 0.125 0.25 0.757
lab*lab 0.125 0.25 0.757

$n^* = 0.50$

Ausgabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 290/360 = 0.806$

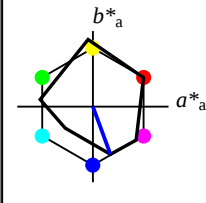
lab^*ch und lab^*nch

D65: Buntton B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

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 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 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*LABb 76.06 0.0 0.0
LAB*LABc 76.06 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (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 0.23 2.14
LAB*LABb 56.71 0.23 2.14
LAB*LABc 56.71 0.23 2.14

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)
lab*lab 0.5 0.5 0.5 (0.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
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 0.0 0.0
LAB*LABa 37.36 0.0 0.0
LAB*LABb 37.36 0.0 0.0
LAB*LABc 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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 0.5 0.46
LAB*LABa 18.02 0.5 0.46
LAB*LABb 18.02 0.5 0.46
LAB*LABc 18.02 0.5 0.46

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*lab 1.0 1.0 1.0 (1.0)
lab*lab 0.0 0.0 0.0 (0.0)
lab*lab 1.0 1.0 1.0 (1.0)
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0 (0.0)
lab*lab 1.0 1.0 1.0 (1.0)
lab*lab 0.0 0.0 0.0 (0.0)
lab*lab 1.0 1.0 1.0 (1.0)

$n^* = 1.0$

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* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.17 -28.74
LAB*LABa 66.03 11.17 -28.74
LAB*LABb 66.03 11.17 -28.74
LAB*LABc 66.03 11.17 -28.74

relative CIELAB lab*
lab*lab 0.62 0.173 -0.468
lab*lab 0.75 0.5 0.806
lab*lab 0.62 0.173 -0.468
lab*lab 0.75 0.5 0.806
relative Natural Colour (NC)
lab*lab 0.62 0.173 -0.468
lab*lab 0.75 0.5 0.806
lab*lab 0.62 0.173 -0.468
lab*lab 0.75 0.5 0.806

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 46.68 11.55 -30.05
LAB*LABa 46.68 11.55 -30.05
LAB*LABb 46.68 11.55 -30.05
LAB*LABc 46.68 11.55 -30.05

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)
lab*lab 0.25 0.25 0.25 (0.0)
lab*lab 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 0.13 0.35
LAB*LABa 27.34 0.13 0.35
LAB*LABb 27.34 0.13 0.35
LAB*LABc 27.34 0.13 0.35

relative CIELAB lab*
lab*lab 0.31 0.086 -0.234
lab*lab 0.375 0.25 0.806
lab*lab 0.31 0.086 -0.234
lab*lab 0.375 0.25 0.806
relative Natural Colour (NC)
lab*lab 0.31 0.086 -0.234
lab*lab 0.375 0.25 0.806
lab*lab 0.31 0.086 -0.234
lab*lab 0.375 0.25 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 22.67 5.79 -15.75
LAB*LABa 22.67 5.79 -15.75
LAB*LABb 22.67 5.79 -15.75
LAB*LABc 22.67 5.79 -15.75

relative CIELAB lab*
lab*lab 0.06 0.086 -0.234
lab*lab 0.125 0.25 0.806
lab*lab 0.06 0.086 -0.234
lab*lab 0.125 0.25 0.806
relative Natural Colour (NC)
lab*lab 0.06 0.086 -0.234
lab*lab 0.125 0.25 0.806
lab*lab 0.06 0.086 -0.234
lab*lab 0.125 0.25 0.806

$n^* = 0.50$

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* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.17 -28.74
LAB*LABa 66.03 11.17 -28.74
LAB*LABb 66.03 11.17 -28.74
LAB*LABc 66.03 11.17 -28.74

relative CIELAB lab*
lab*lab 0.62 0.173 -0.468
lab*lab 0.75 0.5 0.806

Eingabe: Farbmetrisches Reflexions-System NCS11

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

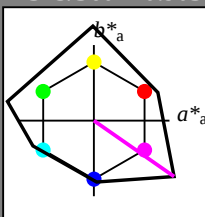
lab^*ich und lab^*nch

D65: Buntton B50R

LCH*Ma: 44 129 325

rgb*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

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 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 1.0 0.0 0.0
lab*ice 1.0 0.0 0.0
lab*nice 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 74.31 0.02 0.0
LAB*LABa 74.31 0.02 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*ich 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*tr 0.75 0.75 0.75 (1.0)
lab*ice 0.75 0.75 0.75 (1.0)
lab*nice 0.25 0.25 0.25 (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 53.21 0.04 0.0
LAB*LABa 53.21 0.04 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*ich 0.5 0.5 0.5 (0.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*ice 0.5 0.5 0.5 (0.0)
lab*nice 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.07 0.01
LAB*LABa 32.11 0.07 0.01
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*ich 0.25 0.25 0.25 (0.0)
lab*nch 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.25 (0.0)
lab*ice 0.25 0.25 0.25 (0.0)
lab*nice 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 19.26 0.18 0.01
LAB*LABa 19.26 0.18 0.01
LAB*LABb 12.50 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*ich 0.25 0.25 0.25 (0.0)
lab*nch 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.25 (0.0)
lab*ice 0.25 0.25 0.25 (0.0)
lab*nice 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LABa 11.01 0.07 0.01
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 1.0 1.0 (1.0)

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 1.0 1.0 (1.0)

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 1.0 1.0 (1.0)

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 1.0 1.0 (1.0)

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 1.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 1.0 1.0 (1.0)

NCS11; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	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

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

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 69.73 53.03 -36.95
LAB*LABa 69.73 53.03 -36.95
LAB*LABb 69.73 53.03 -36.95

relative CIELAB lab*

lab*lab 1.0 0.5 1.0 (1.0)
lab*ich 1.0 0.5 1.0 (1.0)
lab*nch 0.0 0.5 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 1.0 0.5 1.0 (1.0)
lab*ice 1.0 0.5 1.0 (1.0)
lab*nice 0.0 0.5 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 0.75 1.0 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 56.89 79.6 -54.43
LAB*LABa 56.89 79.6 -54.43
LAB*LABb 56.89 79.6 -54.43

relative CIELAB lab*

lab*lab 0.75 0.75 0.75 (1.0)
lab*ich 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*tr 0.75 0.75 0.75 (1.0)
lab*ice 0.75 0.75 0.75 (1.0)
lab*nice 0.25 0.25 0.25 (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 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.63 53.09 -36.95
LAB*LABa 48.63 53.09 -36.95
LAB*LABb 48.63 53.09 -36.95

relative CIELAB lab*

lab*lab 0.5 0.5 0.5 (0.0)
lab*ich 0.5 0.5 0.5 (0.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*ice 0.5 0.5 0.5 (0.0)
lab*nice 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 0.25 1.0 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 35.79 79.61 -54.43
LAB*LABa 35.79 79.61 -54.43
LAB*LABb 35.79 79.61 -54.43

relative CIELAB lab*

lab*lab 0.25 0.25 0.25 (0.0)
lab*ich 0.25 0.25 0.25 (0.0)
lab*nch 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.25 (0.0)
lab*ice 0.25 0.25 0.25 (0.0)
lab*nice 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 0.0 1.0 (1.0)
olvi4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 19.26 0.18 0.01
LAB*LABa 19.26 0.18 0.01
LAB*LABb 12.50 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 0.0 1.0 (1.0)

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 0.0 1.0 (1.0)
olvi4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.01 0.0
LAB*LABa 0.01 0.01 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 0.0 1.0 (1.0)

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 0.0 1.0 (1.0)
olvi4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.01 0.0
LAB*LABa 0.01 0.01 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 0.0 1.0 (1.0)

Ausgabe: Farbmetrisches Reflexions-System MRS18

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

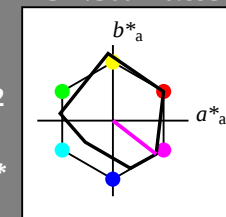
lab^*tch und lab^*nch

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)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 1.0 0.0 0.0
lab*ice 1.0 0.0 0.0
lab*nice 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 0.75 1.0 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 76.06 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*ich 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*tr 0.75 0.75 0.75 (1.0)
lab*ice 0.75 0.75 0.75 (1.0)
lab*nice 0.25 0.25 0.25 (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 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.89 79.6 -54.43
LAB*LABa 56.89 79.6 -54.43
LAB*LABb 56.89 79.6 -54.43

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*ich 0.5 0.5 0.5 (0.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*ice 0.5 0.5 0.5 (0.0)
lab*nice 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 0.25 1.0 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 35.79 79.61 -54.43
LAB*LABa 35.79 79.61 -54.43
LAB*LABb 35.79 79.61 -54.43

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*ich 0.25 0.25 0.25 (0.0)
lab*nch 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.25 (0.0)
lab*ice 0.25 0.25 0.25 (0.0)
lab*nice 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 0.0 1.0 (1.0)
olvi4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 19.26 0.18 0.01
LAB*LABa 19.26 0.18 0.01
LAB*LABb 12.50 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 0.0 1.0 (1.0)

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 0.0 1.0 (1.0)

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 0.0 1.0 (1.0)

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*ich 0.0 0.0 0.0 (0.0)
lab*nch 1.0 0.0 1.0 (1.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*ice 0.0 0.0 0.0 (0.0)
lab*nice 1.0 0.0 1.0 (1.0)

Eingabe: Farbmetrisches Reflexions-System NCS11

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

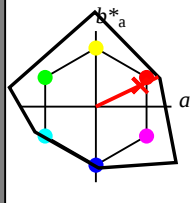
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

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 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 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 74.31 0.02 0.0
LAB*LABa 74.31 0.02 0.0
LAB*LABb 74.31 0.02 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.75 0.0 0.0
lab*lab 0.75 0.0 0.0
lab*lab 0.75 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 53.21 0.04 0.0
LAB*LABa 53.21 0.04 0.0
LAB*LABb 53.21 0.04 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.5 0.0 0.0
lab*lab 0.5 0.0 0.0
lab*lab 0.5 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 32.11 0.07 0.01
LAB*LABa 32.11 0.07 0.01
LAB*LABb 32.11 0.07 0.01

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 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 11.01 0.07 0.01
LAB*LABa 11.01 0.07 0.01
LAB*LABb 11.01 0.07 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0

$n^* = 1.0$

NCS11; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	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

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

relative Inform. Technology (IT)

olvi3* 1.0 0.512 0.5 (1.0)
cmyn3* 0.0 0.488 0.5 (0.0)
olvi4* 1.0 0.512 0.5 (1.0)
cmyn4* 0.0 0.488 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 71.81 41.31 19.68
LAB*LABa 71.81 41.31 19.68
LAB*LABb 71.81 41.31 19.68

relative CIELAB lab*
lab*lab 0.71 0.41 0.19
lab*lab 0.71 0.41 0.19
lab*lab 0.71 0.41 0.19
relative Natural Colour (NC)
lab*lab 0.71 0.41 0.19
lab*lab 0.71 0.41 0.19
lab*lab 0.71 0.41 0.19

relative Inform. Technology (IT)

olvi3* 0.75 0.262 0.25 (1.0)
cmyn3* 0.25 0.738 0.75 (0.0)
olvi4* 1.0 0.512 0.5 (1.0)
cmyn4* 0.0 0.488 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 50.71 41.33 19.69
LAB*LABa 50.71 41.33 19.69
LAB*LABb 50.71 41.33 19.69

relative CIELAB lab*
lab*lab 0.50 0.41 0.19
lab*lab 0.50 0.41 0.19
lab*lab 0.50 0.41 0.19
relative Natural Colour (NC)
lab*lab 0.50 0.41 0.19
lab*lab 0.50 0.41 0.19
lab*lab 0.50 0.41 0.19

relative Inform. Technology (IT)

olvi3* 0.5 0.012 0.0 (1.0)
cmyn3* 0.5 0.988 1.0 (0.0)
olvi4* 1.0 0.512 0.5 (1.0)
cmyn4* 0.0 0.488 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 29.6 41.29 19.67
LAB*LABa 29.6 41.29 19.67
LAB*LABb 29.6 41.29 19.67

relative CIELAB lab*
lab*lab 0.29 0.41 0.19
lab*lab 0.29 0.41 0.19
lab*lab 0.29 0.41 0.19
relative Natural Colour (NC)
lab*lab 0.29 0.41 0.19
lab*lab 0.29 0.41 0.19
lab*lab 0.29 0.41 0.19

$n^* = 0.50$

relative Inform. Technology (IT)

olvi3* 1.0 0.268 0.25 (1.0)
cmyn3* 0.0 0.732 0.75 (0.0)
olvi4* 1.0 0.268 0.25 (1.0)
cmyn4* 0.0 0.732 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 60.01 61.96 29.53
LAB*LABa 60.01 61.96 29.53
LAB*LABb 60.01 61.96 29.53

relative CIELAB lab*
lab*lab 0.60 0.62 0.29
lab*lab 0.60 0.62 0.29
lab*lab 0.60 0.62 0.29
relative Natural Colour (NC)
lab*lab 0.60 0.62 0.29
lab*lab 0.60 0.62 0.29
lab*lab 0.60 0.62 0.29

relative Inform. Technology (IT)

olvi3* 0.581 0.677 0.323
cmyn3* 0.419 0.323 0.677
olvi4* 1.0 0.581 0.677 (1.0)
cmyn4* 0.0 0.419 0.323 (0.0)
standard and adapted CIELAB
LAB*LAB 48.21 82.57 39.35
LAB*LABa 48.21 82.57 39.35
LAB*LABb 48.21 82.57 39.35

relative CIELAB lab*
lab*lab 0.48 0.82 0.39
lab*lab 0.48 0.82 0.39
lab*lab 0.48 0.82 0.39
relative Natural Colour (NC)
lab*lab 0.48 0.82 0.39
lab*lab 0.48 0.82 0.39
lab*lab 0.48 0.82 0.39

relative Inform. Technology (IT)

olvi3* 0.331 0.677 0.323
cmyn3* 0.669 0.323 0.677
olvi4* 1.0 0.331 0.677 (1.0)
cmyn4* 0.0 0.669 0.323 (0.0)
standard and adapted CIELAB
LAB*LAB 31.21 61.93 29.51
LAB*LABa 31.21 61.93 29.51
LAB*LABb 31.21 61.93 29.51

relative CIELAB lab*
lab*lab 0.33 0.67 0.32
lab*lab 0.33 0.67 0.32
lab*lab 0.33 0.67 0.32
relative Natural Colour (NC)
lab*lab 0.33 0.67 0.32
lab*lab 0.33 0.67 0.32
lab*lab 0.33 0.67 0.32

$n^* = 0.00$

Ausgabe: Farbmetrisches Reflexions-System MRS18

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

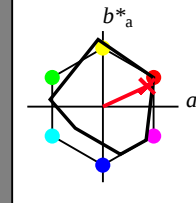
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

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 0.0 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 1.0 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 -0.6 3.44
LAB*LABb 76.06 -0.6 3.44

relative CIELAB lab*
lab*lab 0.76 -0.6 3.44
lab*lab 0.76 -0.6 3.44
lab*lab 0.76 -0.6 3.44
relative Natural Colour (NC)
lab*lab 0.76 -0.6 3.44
lab*lab 0.76 -0.6 3.44
lab*lab 0.76 -0.6 3.44

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 0.23 2.14
LAB*LABb 56.71 0.23 2.14

relative CIELAB lab*
lab*lab 0.56 0.23 2.14
lab*lab 0.56 0.23 2.14
lab*lab 0.56 0.23 2.14
relative Natural Colour (NC)
lab*lab 0.56 0.23 2.14
lab*lab 0.56 0.23 2.14
lab*lab 0.56 0.23 2.14

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 32.11 0.07 0.01
LAB*LABa 32.11 0.07 0.01
LAB*LABb 32.11 0.07 0.01

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 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
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	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* 0.5 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 60.01 61.96 29.53
LAB*LABa 60.01 61.96 29.53
LAB*LABb 60.01 61.96 29.53

relative CIELAB lab*
lab*lab 0.60 0.62 0.29
lab*lab 0.60 0.62 0.29
lab*lab 0.60 0.62 0.29
relative Natural Colour (NC)
lab*lab 0.60 0.62 0.29
lab*lab 0.60 0.62 0.29
lab*lab 0.60 0.62 0.29

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 52.46 32.85 17.04
LAB*LABa 52.46 32.85 17.04
LAB*LABb 52.46 32.85 17.04

relative CIELAB lab*
lab*lab 0.52 0.33 0.17
lab*lab 0.52 0.33 0.17
lab*lab 0.52 0.33 0.17
relative Natural Colour (NC)
lab*lab 0.52 0.33 0.17
lab*lab 0.52 0.33 0.17
lab*lab 0.52 0.33 0.17

relative Inform. Technology (IT)

olvi3* 0.581 0.677 0.323
cmyn3* 0.419 0.323 0.677
olvi4* 1.0 0.581 0.677 (1.0)
cmyn4* 0.0 0.419 0.323 (0.0)
standard and adapted CIELAB
LAB*LAB 48.21 82.57 39.35
LAB*LABa 48.21 82.57 39.35
LAB*LABb 48.21 82.57 39.35

relative CIELAB lab*
lab*lab 0.48 0.82 0.39
lab*lab 0.48 0.82 0.39
lab*lab 0.48 0.82 0.39
relative Natural Colour (NC)
lab*lab 0.48 0.82 0.39
lab*lab 0.48 0.82 0.39
lab*lab 0.48 0.82 0.39

$n^* = 0.00$

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 40.66 49.57 23.94
LAB*LABa 40.66 49.57 23.94
LAB*LABb 40.66 49.57 23.94

relative CIELAB lab*
lab*lab 0.41 0.49 0.24
lab*lab 0.41 0.49 0.24
lab*lab 0.41 0.49 0.24
relative Natural Colour (NC)
lab*lab 0.41 0.49 0.24
lab*lab 0.41 0.49 0.24
lab*lab 0.41 0.49 0.24

relative Inform. Technology (IT)

olvi3* 0.581 0.677 0.323
cmyn3* 0.419 0.323 0.677
olvi4* 1.0 0.581 0.677 (1.0)
cmyn4* 0.0 0.419 0.323 (0.0)
standard and adapted CIELAB
LAB*LAB 31.21 61.93 29.51
LAB*LABa 31.21 61.93 29.51
LAB*LABb 31.21 61.93 29.51

relative CIELAB lab*
lab*lab 0.31 0.62 0.29
lab*lab 0.31 0.62 0.29
lab*lab 0.31 0.62 0.29
relative Natural Colour (NC)
lab*lab 0.31 0.62 0.29
lab*lab 0.31 0.62 0.29
lab*lab 0.31 0.62 0.29

relative Inform. Technology (IT)

olvi3* 0.331 0.677 0.323
cmyn3* 0.669 0.323 0.677
olvi4* 1.0 0.331 0.677 (1.0)
cmyn4* 0.0 0.669 0.323 (0.0)
standard and adapted CIELAB
LAB*LAB 29.6 41.29 19.67
LAB*LABa 29.6 41.29 19.67
LAB*LABb 29.6 41.29 19.67

relative CIELAB lab*
lab*lab 0.29 0.41 0.19
lab*lab 0.29 0.41 0.19
lab*lab 0.29 0.41 0.19
relative Natural Colour (NC)
lab*lab 0.29 0.41 0.19
lab*lab 0.29 0.41 0.19
lab*lab 0.29 0.41 0.19

$n^* = 0.50$

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 11.01 0.07 0.01
LAB*LABa 11.01 0.07 0.01
LAB*LABb 11.01 0.07 0.01

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
relative Natural Colour (NC)
lab*lab 0.25 0.0 0.0
lab*lab 0.25 0.0 0.0
lab*lab 0.25 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 0.01 0.01 0.01
LAB*LABa 0.01 0.01 0.01
LAB*LABb 0.01 0.01 0.01

relative CIELAB lab

Eingabe: Farbmetrisches Reflexions-System NCS11

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

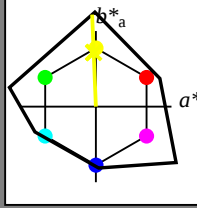
lab^*ich und lab^*nch

D65: Buntton J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

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 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*TCa 99.99 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.992 1.0 0.75 (1.0)
cmyn3* 0.008 0.0 0.25 (0.0)
olvi4* 0.992 1.0 0.75 (1.0)
cmyn4* 0.008 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 94.16 -1.21 30.44
LAB*Lab 94.16 -1.22 30.45
LAB*TCa 87.5 30.47 92.31

relative Inform. Technology (IT)
olvi3* 0.985 0.0 -0.09 0.25
cmyn3* 0.015 0.0 0.25 0.25
olvi4* 0.985 0.0 -0.09 0.25
cmyn4* 0.015 0.0 0.25 0.25
standard and adapted CIELAB
LAB*LAB 92.52 -2.44 60.89
LAB*Lab 92.52 -2.46 60.89
LAB*TCa 75.0 60.94 92.32

relative Inform. Technology (IT)
olvi3* 0.974 0.5 0.5 (1.0)
cmyn3* 0.026 0.5 0.5 (0.0)
olvi4* 0.974 0.5 0.5 (1.0)
cmyn4* 0.026 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.68 -3.68 91.34
LAB*Lab 91.68 -3.69 91.34
LAB*TCa 62.5 91.41 92.32

relative Inform. Technology (IT)
olvi3* 0.967 1.0 0.0 (1.0)
cmyn3* 0.033 0.0 1.0 (0.0)
olvi4* 0.967 1.0 0.0 (1.0)
cmyn4* 0.033 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 90.45 -4.92 121.77
LAB*Lab 90.45 -4.93 121.77
LAB*TCa 50.0 121.87 92.32

relative Inform. Technology (IT)
olvi3* 0.959 0.0 -0.09 0.999
cmyn3* 0.041 0.0 0.0 0.256
olvi4* 0.959 0.0 -0.09 0.999
cmyn4* 0.041 0.0 0.0 0.256
standard and adapted CIELAB
LAB*LAB 89.45 -6.04 199.99
LAB*Lab 89.45 -6.05 199.99
LAB*TCa 40.0 199.99 92.32

relative Inform. Technology (IT)
olvi3* 0.948 0.5 0.5 (1.0)
cmyn3* 0.052 0.5 0.5 (0.0)
olvi4* 0.948 0.5 0.5 (1.0)
cmyn4* 0.052 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 88.45 -7.25 256.0
LAB*Lab 88.45 -7.26 256.0
LAB*TCa 30.0 256.0 92.32

relative Inform. Technology (IT)
olvi3* 0.937 1.0 0.0 (1.0)
cmyn3* 0.067 0.0 1.0 (0.0)
olvi4* 0.937 1.0 0.0 (1.0)
cmyn4* 0.067 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 87.45 -8.46 322.0
LAB*Lab 87.45 -8.47 322.0
LAB*TCa 20.0 322.0 92.32

relative Inform. Technology (IT)
olvi3* 0.926 0.5 0.5 (1.0)
cmyn3* 0.076 0.5 0.5 (0.0)
olvi4* 0.926 0.5 0.5 (1.0)
cmyn4* 0.076 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 86.45 -9.67 388.0
LAB*Lab 86.45 -9.68 388.0
LAB*TCa 10.0 388.0 92.32

relative Inform. Technology (IT)
olvi3* 0.915 0.0 0.0 (1.0)
cmyn3* 0.085 0.0 0.0 (0.0)
olvi4* 0.915 0.0 0.0 (1.0)
cmyn4* 0.085 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 85.45 -10.88 454.0
LAB*Lab 85.45 -10.89 454.0
LAB*TCa 0.0 454.0 92.32

relative Inform. Technology (IT)
olvi3* 0.904 0.5 0.5 (1.0)
cmyn3* 0.094 0.5 0.5 (0.0)
olvi4* 0.904 0.5 0.5 (1.0)
cmyn4* 0.094 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 84.45 -12.09 520.0
LAB*Lab 84.45 -12.10 520.0
LAB*TCa 0.0 520.0 92.32

NCS11; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	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

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.25$

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$n^* = 41.00$

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$n^* = 42.50$

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$n^* = 43.00$

$n^* = 43.25$

$n^* = 43.50$

$n^* = 43.75$

$n^* = 44.00</$

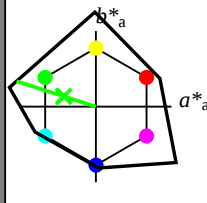
Eingabe: Farbmetrisches Reflexions-System NCS11

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

lab^*ch und lab^*nch

D65: Buntton G
LCH*Ma: 65 110 162
rgb*Ma: 0.08 1.0 0.0

Dreiecks-Helligkeit t^*



NCS11; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	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

%Regularität

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

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

relative Inform. Technology (IT)
olvi3* 0.771 1.0 0.75 (1.0)
cmyn3* 0.229 0.0 0.25 (0.0)
olvi4* 0.771 1.0 0.75 (1.0)
cmyn4* 0.229 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 87.9 -26.2 8.39
LAB*LABa 87.9 -26.2 8.39
LAB*TCHa 87.5 27.54 162.25

relative Inform. Technology (IT)
olvi3* 0.541 1.0 0.5 (1.0)
cmyn3* 0.459 0.0 0.5 (0.0)
olvi4* 0.541 1.0 0.5 (1.0)
cmyn4* 0.459 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 80.4 -32.45 16.79
LAB*LABa 80.4 -32.45 16.79
LAB*TCHa 75.0 55.08 162.25

relative Inform. Technology (IT)
olvi3* 0.312 1.0 0.25 (1.0)
cmyn3* 0.688 0.0 0.25 (0.0)
olvi4* 0.312 1.0 0.25 (1.0)
cmyn4* 0.688 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 72.9 -78.66 25.19
LAB*LABa 72.9 -78.66 25.19
LAB*TCHa 62.5 82.63 162.25

relative Inform. Technology (IT)
olvi3* 0.083 1.0 0.0 (1.0)
cmyn3* 0.917 0.0 1.0 (0.0)
olvi4* 0.083 1.0 0.0 (1.0)
cmyn4* 0.917 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.41 -104.893.58
LAB*LABa 65.41 -104.893.58
LAB*TCHa 50.0 110.17 162.25

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 (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 0.23 2.14
LAB*TCHa 50.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.276 0.5 0.25 (1.0)
cmyn3* 0.724 0.5 0.75 (0.0)
olvi4* 0.276 1.0 0.75 (0.0)
cmyn4* 0.724 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 46.87 -15.85 5.88
LAB*LABa 46.87 -15.85 5.88
LAB*TCHa 37.5 16.41 164.46

relative Inform. Technology (IT)
olvi3* 0.301 0.5 0.25 (1.0)
cmyn3* 0.699 0.25 0.75 (0.0)
olvi4* 0.301 1.0 0.75 (0.0)
cmyn4* 0.699 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 56.39 -31.84 10.92
LAB*LABa 56.39 -31.84 10.92
LAB*TCHa 50.0 32.81 164.46

relative Inform. Technology (IT)
olvi3* 0.619 0.25 0.25 (1.0)
cmyn3* 0.381 0.25 0.25 (0.0)
olvi4* 0.619 0.75 0.25 (0.0)
cmyn4* 0.381 0.75 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 65.9 -47.82 15.96
LAB*LABa 65.9 -47.82 15.96
LAB*TCHa 62.5 49.22 164.46

relative Inform. Technology (IT)
olvi3* 0.103 1.0 0.0 (1.0)
cmyn3* 0.897 0.0 1.0 (0.0)
olvi4* 0.103 1.0 0.0 (1.0)
cmyn4* 0.897 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.07 -63.21 17.38
LAB*LABa 56.07 -63.21 17.38
LAB*TCHa 50.0 65.62 164.46

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 53.21 0.04 0.0
LAB*LABa 53.21 0.04 0.0
LAB*TCHa 50.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.651 0.25 0.25 (1.0)
cmyn3* 0.349 0.25 0.25 (0.0)
olvi4* 0.651 0.75 0.25 (0.0)
cmyn4* 0.349 0.75 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 66.81 -26.19 8.4
LAB*LABa 66.81 -26.19 8.4
LAB*TCHa 62.5 27.55 162.25

relative Inform. Technology (IT)
olvi3* 0.291 0.5 0.25 (1.0)
cmyn3* 0.709 0.25 0.75 (0.0)
olvi4* 0.291 1.0 0.75 (0.0)
cmyn4* 0.709 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 59.31 -52.42 16.8
LAB*LABa 59.31 -52.42 16.8
LAB*TCHa 50.0 55.09 162.25

relative Inform. Technology (IT)
olvi3* 0.73 0.73 0.229 (1.0)
cmyn3* 0.269 0.25 0.25 (0.0)
olvi4* 0.73 0.73 0.229 (1.0)
cmyn4* 0.269 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 51.81 -78.65 25.19
LAB*LABa 51.81 -78.65 25.19
LAB*TCHa 37.51 82.64 162.26

relative Inform. Technology (IT)
olvi3* 0.483 0.713 0.228 (1.0)
cmyn3* 0.517 0.287 0.228 (0.0)
olvi4* 0.483 0.713 0.228 (1.0)
cmyn4* 0.517 0.287 0.228 (0.0)
standard and adapted CIELAB
LAB*LAB 48.3 -73.75 0.451
LAB*LABa 48.3 -73.75 0.451
LAB*TCHa 50.0 0.01 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 0.0 0.0
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.276 0.5 0.25 (1.0)
cmyn3* 0.724 0.5 0.75 (0.0)
olvi4* 0.276 1.0 0.75 (0.0)
cmyn4* 0.724 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 46.87 -15.85 5.88
LAB*LABa 46.87 -15.85 5.88
LAB*TCHa 37.5 16.41 164.46

relative Inform. Technology (IT)
olvi3* 0.301 0.5 0.25 (1.0)
cmyn3* 0.699 0.25 0.75 (0.0)
olvi4* 0.301 1.0 0.75 (0.0)
cmyn4* 0.699 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 56.39 -31.84 10.92
LAB*LABa 56.39 -31.84 10.92
LAB*TCHa 50.0 32.81 164.46

relative Inform. Technology (IT)
olvi3* 0.619 0.25 0.25 (1.0)
cmyn3* 0.381 0.25 0.25 (0.0)
olvi4* 0.619 0.75 0.25 (0.0)
cmyn4* 0.381 0.75 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 65.9 -47.82 15.96
LAB*LABa 65.9 -47.82 15.96
LAB*TCHa 62.5 49.22 164.46

relative Inform. Technology (IT)
olvi3* 0.103 1.0 0.0 (1.0)
cmyn3* 0.897 0.0 1.0 (0.0)
olvi4* 0.103 1.0 0.0 (1.0)
cmyn4* 0.897 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.07 -63.21 17.38
LAB*LABa 56.07 -63.21 17.38
LAB*TCHa 50.0 65.62 164.46

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 53.21 0.04 0.0
LAB*LABa 53.21 0.04 0.0
LAB*TCHa 50.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.651 0.25 0.25 (1.0)
cmyn3* 0.349 0.25 0.25 (0.0)
olvi4* 0.651 0.75 0.25 (0.0)
cmyn4* 0.349 0.75 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 66.81 -26.19 8.4
LAB*LABa 66.81 -26.19 8.4
LAB*TCHa 62.5 27.55 162.25

relative Inform. Technology (IT)
olvi3* 0.291 0.5 0.25 (1.0)
cmyn3* 0.709 0.25 0.75 (0.0)
olvi4* 0.291 1.0 0.75 (0.0)
cmyn4* 0.709 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 59.31 -52.42 16.8
LAB*LABa 59.31 -52.42 16.8
LAB*TCHa 50.0 55.09 162.25

relative Inform. Technology (IT)
olvi3* 0.73 0.73 0.229 (1.0)
cmyn3* 0.269 0.25 0.25 (0.0)
olvi4* 0.73 0.73 0.229 (1.0)
cmyn4* 0.269 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 51.81 -78.65 25.19
LAB*LABa 51.81 -78.65 25.19
LAB*TCHa 37.51 82.64 162.26

relative Inform. Technology (IT)
olvi3* 0.483 0.713 0.228 (1.0)
cmyn3* 0.517 0.287 0.228 (0.0)
olvi4* 0.483 0.713 0.228 (1.0)
cmyn4* 0.517 0.287 0.228 (0.0)
standard and adapted CIELAB
LAB*LAB 48.3 -73.75 0.451
LAB*LABa 48.3 -73.75 0.451
LAB*TCHa 50.0 0.01 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 0.0 0.0
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.276 0.5 0.25 (1.0)
cmyn3* 0.724 0.5 0.75 (0.0)
olvi4* 0.276 1.0 0.75 (0.0)
cmyn4* 0.724 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 46.87 -15.85 5.88
LAB*LABa 46.87 -15.85 5.88
LAB*TCHa 37.5 16.41 164.46

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olvi3* 0.301 0.5 0.25 (1.0)
cmyn3* 0.699 0.25 0.75 (0.0)
olvi4* 0.301 1.0 0.75 (0.0)
cmyn4* 0.699 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 56.39 -31.84 10.92
LAB*LABa 56.39 -31.84 10.92
LAB*TCHa 50.0 32.81 164.46

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olvi3* 0.619 0.25 0.25 (1.0)
cmyn3* 0.381 0.25 0.25 (0.0)
olvi4* 0.619 0.75 0.25 (0.0)
cmyn4* 0.381 0.75 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 65.9 -47.82 15.96
LAB*LABa 65.9 -47.82 15.96
LAB*TCHa 62.5 49.22 164.46

relative Inform. Technology (IT)
olvi3* 0.103 1.0 0.0 (1.0)
cmyn3* 0.897 0.0 1.0 (0.0)
olvi4* 0.103 1.0 0.0 (1.0)
cmyn4* 0.897 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.07 -63.21 17.38
LAB*LABa 56.07 -63.21 17.38
LAB*TCHa 50.0 65.62 164.46

TG580-7, 5 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

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

BAM-Prüfvorlage TG58; Farbmetrik-Systeme ORS18 & ORS18 input: $olv^* setrgbcolor$

D65: 2 Koordinaten-Daten von 5stufigen Farbseiten für 10 Bunttonen; Startup (S) data dependend

