

Eingabe: Farbmetrisches Reflexions-System NRS11

für Buntton $h^* = lab \cdot h = 24/360 = 0.067$

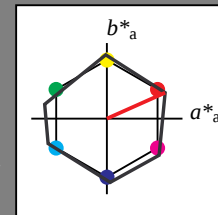
$lab \cdot tch$ und $lab \cdot nch$

D65: Buntton R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

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*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*labc 1.0 0.0 0.0
lab*nchc 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*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
lab*labc 0.75 0.75 0.75 (1.0)
lab*nchc 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*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.5 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.5 0.5 0.5 (0.0)
lab*labc 0.5 0.5 0.5 (0.0)
lab*nchc 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 0.01 0.0
LAB*LABa 32.11 0.01 0.0
LAB*LABb 32.11 0.01 0.0
LAB*LABc 32.11 0.01 0.0

relative CIELAB lab*

lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.75 0.75 0.75 (1.0)
lab*labc 0.25 0.25 0.25 (0.0)
lab*nchc 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 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 (1.0)
lab*tch 0.0 0.0 0.0 (1.0)
lab*nch 1.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (1.0)
lab*nch 1.0 0.0 0.0 (0.0)
lab*labc 0.0 0.0 0.0 (1.0)
lab*nchc 1.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
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
LAB*LABc 0.01 0.01 0.01

relative CIELAB lab*

lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (1.0)
lab*nch 1.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (1.0)
lab*nch 1.0 0.0 0.0 (0.0)
lab*labc 0.0 0.0 0.0 (1.0)
lab*nchc 1.0 0.0 0.0 (0.0)

NRS11; adaptierte CIELAB-Daten

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

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

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Umfang

$u^*_{rel} = 119$

relative Inform. Technology (IT)

olvi3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 74.3 38.55 17.16
LAB*LABa 74.3 38.55 17.16
LAB*LABb 74.3 38.55 17.16
LAB*LABc 74.3 38.55 17.16

relative CIELAB lab*

lab*lab 0.75 0.5 0.5 (1.0)
lab*tch 0.75 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*lab 0.75 0.5 0.5 (1.0)
lab*tch 0.75 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (0.0)
lab*labc 0.75 0.5 0.5 (1.0)
lab*nchc 0.0 0.5 0.5 (0.0)

relative Inform. Technology (IT)

olvi3* 0.75 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 53.2 38.57 17.17
LAB*LABa 53.2 38.57 17.17
LAB*LABb 53.2 38.57 17.17
LAB*LABc 53.2 38.57 17.17

relative CIELAB lab*

lab*lab 0.75 0.25 0.25 (1.0)
lab*tch 0.75 0.25 0.25 (1.0)
lab*nch 0.0 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*lab 0.75 0.25 0.25 (1.0)
lab*tch 0.75 0.25 0.25 (1.0)
lab*nch 0.0 0.25 0.25 (0.0)
lab*labc 0.75 0.25 0.25 (1.0)
lab*nchc 0.0 0.25 0.25 (0.0)

relative Inform. Technology (IT)

olvi3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (1.0)
olvi4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 32.1 38.58 17.17
LAB*LABa 32.1 38.58 17.17
LAB*LABb 32.1 38.58 17.17
LAB*LABc 32.1 38.58 17.17

relative CIELAB lab*

lab*lab 0.5 0.0 0.0 (1.0)
lab*tch 0.5 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (1.0)
relative Natural Colour (NC)
lab*lab 0.5 0.0 0.0 (1.0)
lab*tch 0.5 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (1.0)
lab*labc 0.5 0.0 0.0 (1.0)
lab*nchc 0.0 0.0 0.0 (1.0)

relative Inform. Technology (IT)

olvi3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.75 0.0 0.0 (1.0)
olvi4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 11.0 38.59 17.17
LAB*LABa 11.0 38.59 17.17
LAB*LABb 11.0 38.59 17.17
LAB*LABc 11.0 38.59 17.17

relative CIELAB lab*

lab*lab 0.25 0.0 0.0 (1.0)
lab*tch 0.25 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (1.0)
relative Natural Colour (NC)
lab*lab 0.25 0.0 0.0 (1.0)
lab*tch 0.25 0.0 0.0 (1.0)
lab*nch 0.0 0.0 0.0 (1.0)
lab*labc 0.25 0.0 0.0 (1.0)
lab*nchc 0.0 0.0 0.0 (1.0)

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 1.0 0.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 0.0 38.60 17.17
LAB*LABa 0.0 38.60 17.17
LAB*LABb 0.0 38.60 17.17
LAB*LABc 0.0 38.60 17.17

relative CIELAB lab*

lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (1.0)
lab*nch 1.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (1.0)
lab*nch 1.0 0.0 0.0 (0.0)
lab*labc 0.0 0.0 0.0 (1.0)
lab*nchc 1.0 0.0 0.0 (0.0)

Ausgabe: Farbmetrisches Reflexions-System ORS18

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

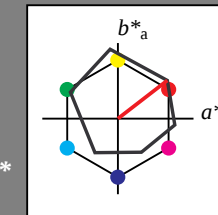
$lab \cdot tch$ und $lab \cdot nch$

D65: Buntton O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

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*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*labc 1.0 0.0 0.0
lab*nchc 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 -0.344
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*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.25 0.25 0.25 (0.0)
lab*labc 0.75 0.75 0.75 (1.0)
lab*nchc 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*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.5 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.5 0.5 0.5 (0.0)
lab*labc 0.5 0.5 0.5 (0.0)
lab*nchc 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 32.1 38.58 17.17
LAB*LABa 32.1 38.58 17.17
LAB*LABb 32.1 38.58 17.17
LAB*LABc 32.1 38.58 17.17

relative CIELAB lab*

lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.75 0.75 0.75 (1.0)
relative Natural Colour (NC)
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.75 0.75 0.75 (1.0)
lab*labc 0.25 0.25 0.25 (0.0)
lab*nchc 0.75 0.75 0.75 (1.0)

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.46
LAB*LABa 18.02 0.5 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 (1.0)
lab*tch 0.0 0.0 0.0 (1.0)
lab*nch 1.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (1.0)
lab*nch 1.0 0.0 0.0 (0.0)
lab*labc 0.0 0.0 0.0 (1.0)
lab*nchc 1.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)

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

relative CIELAB lab*

lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (1.0)
lab*nch 1.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (1.0)
lab*nch 1.0 0.0 0.0 (0.0)
lab*labc 0.0 0.0 0.0 (1.0)
lab*nchc 1.0 0.0 0.0 (0.0)

ORS18; adaptierte CIELAB-Daten

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

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

%Regularität

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

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

%Umfang

$u^*_{rel} = 93$

relative Inform. Technology (IT)

olvi3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 71.67 32.68 25.25
LAB*LABa 71.67 32.68 25.25
LAB*LABb 71.67 32.68 25.25
LAB*LABc 71.67 32.68 25.25

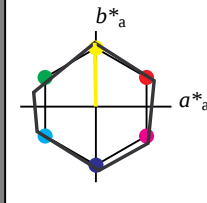
relative CIELAB lab*

lab*lab 0.693 0.396 0.306
lab*tch 0.75 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*lab 0.693 0.396 0.306
lab*tch 0.75 0.5 0.5 (1.0)
lab*nch 0.0 0.5 0.5 (0.0)
lab

Eingabe: Farbmetrisches Reflexions-System NRS11 für Buntton $h^* = lab^*h = 91/360 = 0.253$ lab^*ch und lab^*nch

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

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*TCHa 99.99 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*LABa 74.31 0.02 0.0
LAB*TCHa 75.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.04 0.0
LAB*LABa 53.21 0.04 0.0
LAB*TCHa 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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*TCHa 25.00 0.01 0.0

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

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

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

$n^* = 1.0$

NRS11; adaptierte CIELAB-Daten						
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$	
RMa	53.2	77.06	34.32	84.36	24	
JMa	53.2	-1.51	84.38	84.39	91	
GMa	53.2	-82.27	18.98	84.44	167	
G50BMa	53.2	-77.72	-32.98	84.44	203	
BMa	53.2	4.37	-84.28	84.41	273	
B50RMa	53.2	69.09	-48.41	84.37	325	
NMa	10.99	0.0	0.0	0.0	0	
WMa	95.41	0.0	0.0	0.0	0	
RCIE	39.92	58.69	27.98	65.01	25	
JCIE	81.26	-2.9	71.56	71.62	92	
GCIE	52.23	-42.45	13.59	44.59	162	
BCIE	30.57	1.35	-46.48	46.51	272	

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

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 84.85 -0.35 21.09
LAB*LABa 84.85 -0.35 21.09
LAB*TCHa 97.5 21.09 91.03

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

relative Inform. Technology (IT)
olvi3* 0.75 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 63.75 -0.33 21.11
LAB*LABa 63.75 -0.33 21.11
LAB*TCHa 62.5 21.1 91.03

relative CIELAB lab*
lab*lab 0.625 0.0 0.0
lab*ch 0.625 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.625 0.0 0.0
lab*trc 0.625 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.2 -0.75 42.19
LAB*LABa 53.2 -0.75 42.19
LAB*TCHa 50.0 42.19 91.03

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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 32.1 -0.69 21.11
LAB*LABa 32.1 -0.69 21.11
LAB*TCHa 25.01 21.09 91.03

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

$n^* = 0.50$

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 63.75 -1.09 63.28
LAB*LABa 63.75 -1.09 63.28
LAB*TCHa 62.5 63.28 91.03

relative CIELAB lab*
lab*lab 0.625 0.0 0.0
lab*ch 0.625 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.625 0.0 0.0
lab*trc 0.625 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.2 -1.46 84.37
LAB*LABa 53.2 -1.46 84.37
LAB*TCHa 50.0 84.37 91.03

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

relative Inform. Technology (IT)
olvi3* 0.5 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 53.2 -1.46 84.37
LAB*LABa 53.2 -1.46 84.37
LAB*TCHa 50.0 84.37 91.03

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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 32.1 -0.69 21.11
LAB*LABa 32.1 -0.69 21.11
LAB*TCHa 25.01 21.09 91.03

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

$n^* = 0.25$

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 32.1 -0.69 21.11
LAB*LABa 32.1 -0.69 21.11
LAB*TCHa 25.01 21.09 91.03

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

relative Inform. Technology (IT)
olvi3* 0.125 0.125 0.125 (0.0)
cmyn3* 0.875 0.875 0.875 (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 32.1 -0.69 21.11
LAB*LABa 32.1 -0.69 21.11
LAB*TCHa 25.01 21.09 91.03

relative CIELAB lab*
lab*lab 0.125 0.0 0.0
lab*ch 0.125 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.125 0.0 0.0
lab*trc 0.125 0.0 0.0
lab*ncc 0.0 0.0 0.0

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

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

$n^* = 0.00$

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 21.4
LAB*LABa 56.71 0.23 21.4
LAB*TCHa 50.0 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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 32.1 -0.69 21.11
LAB*LABa 32.1 -0.69 21.11
LAB*TCHa 25.01 21.09 91.03

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

relative Inform. Technology (IT)
olvi3* 0.125 0.125 0.125 (0.0)
cmyn3* 0.875 0.875 0.875 (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 32.1 -0.69 21.11
LAB*LABa 32.1 -0.69 21.11
LAB*TCHa 25.01 21.09 91.03

relative CIELAB lab*
lab*lab 0.125 0.0 0.0
lab*ch 0.125 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.125 0.0 0.0
lab*trc 0.125 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.46
LAB*LABa 18.02 0.5 0.46
LAB*TCHa 0.0 0.01 0.0

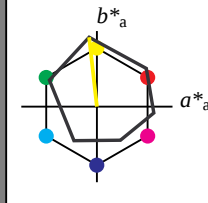
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

$n^* = 1.0$

Ausgabe: Farbmetrisches Reflexions-System ORS18 für Buntton $h^* = lab^*h = 96/360 = 0.268$ lab^*ch und lab^*nch

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

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*TCHa 99.99 0.01 0.0

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

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.23 21.4
LAB*LABa 56.71 0.23 21.4
LAB*TCHa 50.0 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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 32.1 -0.69 21.11
LAB*LABa 32.1 -0.69 21.11
LAB*TCHa 25.01 21.09 91.03

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

relative Inform. Technology (IT)
olvi3* 0.125 0.125 0.125 (0.0)
cmyn3* 0.875 0.875 0.875 (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 32.1 -0.69 21.11
LAB*LABa 32.1 -0.69 21.11
LAB*TCHa 25.01 21.09 91.03

relative CIELAB lab*
lab*lab 0.125 0.0 0.0
lab*ch 0.125 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.125 0.0 0.0
lab*trc 0.125 0.0 0.0
lab*ncc 0.0 0.0 0.0

$n^* = 0.00$

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 74.8 -3.14 26.31
LAB*LABa 74.8 -3.14 26.31
LAB*TCHa 62.5 23.09 96.39

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.23 21.4
LAB*LABa 56.71 0.23 21.4
LAB*TCHa 50.0 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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 32.1 -0.69 21.11
LAB*LABa 32.1 -0.69 21.11
LAB*TCHa 25.01 21.09 91.03

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

relative Inform. Technology (IT)
olvi3*

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one input: Startup (S) data dependend

für 10 Buntöne: *Startup (S)* data dependend

Eingabe: Farbmetrisches Reflexions-System NRS11

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

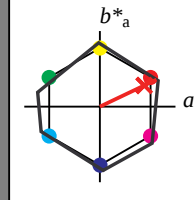
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

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*Lab 95.41 0.0 0.0
LAB*TCla 99.99 0.01 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0
lab*ch 0.0 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*TCla 75.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.75 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*nce 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*Lab 53.21 0.04 0.0
LAB*TCla 50.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.5 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*nce 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*Lab 32.11 0.07 0.01
LAB*TCla 25.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.25 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*nce 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*Lab 11.01 0.07 0.01
LAB*TCla 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*Lab 11.01 0.07 0.01
LAB*TCla 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

NRS11; adaptierte CIELAB-Daten

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

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

%Regularität

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

Ausgabe: Farbmetrisches Reflexions-System ORS18

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

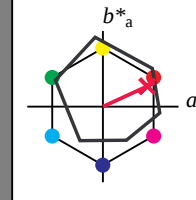
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

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*Lab 95.41 0.0 0.0
LAB*TCla 99.99 0.01 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0
lab*ch 0.0 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 76.06 -0.34 4.4
LAB*Lab 76.06 0.0 0.0
LAB*TCla 75.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.75 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*nce 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 0.23 2.14
LAB*Lab 56.71 0.23 2.14
LAB*TCla 50.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.5 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*nce 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*Lab 32.11 0.07 0.01
LAB*TCla 25.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.25 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*nce 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 18.02 0.0 0.46
LAB*Lab 18.02 0.0 0.46
LAB*TCla 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*Lab 18.02 0.0 0.46
LAB*TCla 0.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

ORS18; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
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

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

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

%Regularität

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

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

%Regularität

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

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

%Regularität

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

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

%Regularität

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

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

%Regularität

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

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

%Regularität

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

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

%Regularität

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

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

%Regularität

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

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

%Regularität

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

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

%Regularität

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

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

%Regularität

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

UG570-7, 5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)

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

BAM-Prüfvorlage UG57; Farbmetrik-Systeme ORS18 & ORS18input: $cmY0^* setcmykcolor$

D65: 2 Koordinaten-Daten von 25stufigen Farbreihen für 10 Bunttonen: Startup (S) data dependant

Eingabe: Farbmetrisches Reflexions-System NRS11

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

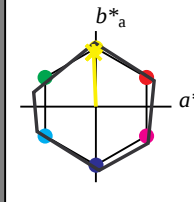
lab^*ch und lab^*nch

D65: Buntton J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

Dreiecks-Helligkeit t^*



$u^*_{rel} = 119$

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* 0.994 1.0 0.75 (1.0)
cmyn3* 0.006 0.0 0.25 (0.0)
olvi4* 0.994 1.0 0.75 (1.0)
cmyn4* 0.006 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 84.85 -0.81 20.72
LAB*Lab 84.85 -0.82 20.72
LAB*TCa 97.5 20.73 92.31

relative Inform. Technology (IT)
olvi3* 0.989 1.0 0.5 (1.0)
cmyn3* 0.011 0.0 0.5 (0.0)
olvi4* 0.989 1.0 0.5 (1.0)
cmyn4* 0.011 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 74.3 -1.64 41.44
LAB*Lab 74.3 -1.67 41.44
LAB*TCa 75.0 41.47 92.32

relative Inform. Technology (IT)
olvi3* 0.983 1.0 0.25 (1.0)
cmyn3* 0.017 0.0 0.25 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 63.75 -2.48 62.16
LAB*Lab 63.75 -2.51 62.15
LAB*TCa 62.5 62.21 92.32

relative Inform. Technology (IT)
olvi3* 0.977 1.0 0.0 (1.0)
cmyn3* 0.023 0.0 0.0 (0.0)
olvi4* 0.977 1.0 0.0 (1.0)
cmyn4* 0.023 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.2 -3.31 82.87
LAB*Lab 53.2 -3.35 82.86
LAB*TCa 50.0 82.93 92.32

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

relative Inform. Technology (IT)
olvi3* 0.973 0.75 0.0 (1.0)
cmyn3* 0.026 0.25 0.0 (0.0)
olvi4* 0.983 1.0 0.25 (1.0)
cmyn4* 0.017 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.65 -2.47 62.16
LAB*Lab 42.65 -2.52 62.15
LAB*TCa 42.5 62.22 92.33

UG570-7, 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 UG57; Farbmetrik-Systeme ORS18 & ORS18input: $cmY0^* setcmykcolor$

D65: 2 Koordinaten-Daten von 52stufigen Farbreihen für 10 Bunttonen: $Startup (S) data dependend$

C M Y O L V

