

Eingabe: Farbmetrisches Reflexions-System ORS18

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

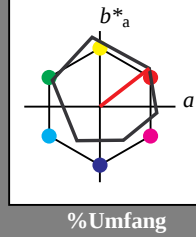
$lab \cdot tch$ und $lab \cdot nch$

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	47.5	
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*tch	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*trce	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*Lab	76.06	0.0	0.0	
LAB*TCa	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*tch	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*trce	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(0.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.23	2.14	
LAB*Lab	56.71	0.0	0.0	
LAB*TCa	50.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.5	0.0	0.0	
lab*tch	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*trce	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	37.36	-0.38	0.63	
LAB*Lab	37.36	0.0	0.0	
LAB*TCa	25.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.0	0.0	
lab*tch	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*trce	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	0.0	
LAB*TCa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*tch	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*trce	1.0	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	0.0	
LAB*TCa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*tch	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*trce	1.0	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

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

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

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	32.15	28.41	
LAB*Lab	71.67	32.15	28.41	
LAB*TCa	75.00	41.3	37.7	

relative CIELAB lab*

lab*lab	0.693	0.396	0.306	
lab*tch	0.75	0.5	0.105	
lab*nch	0.0	0.5	0.105	
relative Natural Colour (NC)				
lab*trj	0.693	0.477	0.15	
lab*trc	0.75	0.5	0.048	
lab*trce	0.0	0.5	0.19	

relative Inform. Technology (IT)

olvi3*	0.75	0.25	0.25	(1.0)
cmyn3*	0.25	0.75	0.75	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	52.33	32.53	27.11	
LAB*Lab	52.33	32.53	27.11	
LAB*TCa	50.00	41.3	37.7	

relative CIELAB lab*

lab*lab	0.443	0.396	0.306	
lab*tch	0.5	0.5	0.105	
lab*nch	0.0	0.5	0.105	
relative Natural Colour (NC)				
lab*trj	0.443	0.477	0.15	
lab*trc	0.5	0.5	0.048	
lab*trce	0.0	0.5	0.19	

relative Inform. Technology (IT)

olvi3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.0	0.0	(0.0)
olvi4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	40.46	49.1	38.93	
LAB*Lab	40.46	49.1	38.93	
LAB*TCa	37.51	61.95	37.7	

relative CIELAB lab*

lab*lab	0.29	0.593	0.459	
lab*tch	0.375	0.75	0.105	
lab*nch	0.0	0.75	0.105	
relative Natural Colour (NC)				
lab*trj	0.29	0.715	0.225	
lab*trc	0.375	0.75	0.048	
lab*trce	0.0	0.75	0.19	

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.0	(1.0)
cmyn3*	0.75	0.0	0.0	(0.0)
olvi4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	22.98	32.9	27.11	
LAB*Lab	22.98	32.9	27.11	
LAB*TCa	25.01	41.3	37.7	

relative CIELAB lab*

lab*lab	0.193	0.396	0.306	
lab*tch	0.25	0.5	0.105	
lab*nch	0.0	0.5	0.105	
relative Natural Colour (NC)				
lab*trj	0.193	0.477	0.15	
lab*trc	0.25	0.5	0.048	
lab*trce	0.0	0.5	0.19	

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	(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	0.0	
LAB*TCa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*tch	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*trce	1.0	0.0	0.0	

Ausgabe: Farbmetrisches Reflexions-System NRS11

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

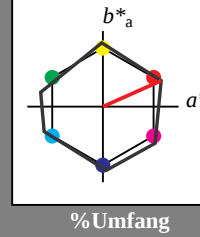
$lab \cdot tch$ und $lab \cdot nch$

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*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*tch	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*trce	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*Lab	74.31	0.02	0.0	
LAB*TCa	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*tch	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*trce	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*Lab	53.21	0.04	0.0	
LAB*TCa	50.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.5	0.0	0.0	
lab*tch	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*trce	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	32.11	0.05	0.0	
LAB*Lab	32.11	0.05	0.0	
LAB*TCa	25.00	0.01	0.0	

lab*nCE 0.5 0.25 698

relative Inform. Technology (IT)				
olvi3*	0.25	0.0	0.0	(1
cmyn3*	0.75	1.0	1.0	(0
olvi4*	1.0	0.75	0.75	0.
cmyn4*	0.0	0.25	0.25	0.

standard and adapted CIELAB

IAR*IAR	21.55	10.23	8.6
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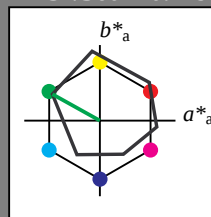
Eingabe: Farbmimetrisches Reflexions-System ORS18

für Buntton $h^* = lab^*h = 151/360 = 0.419$

lab^*ich und lab^*nch

D65: Buntton L
LCH*Ma: 51 72 151
rgb*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^*



ORS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularität

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

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

relative Inform. Technology (IT)
olvi3* 1.0 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 47.5
LAB*Lab 95.41 0.0 0.0
LAB*Lab 95.41 0.0 0.0
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.75 1.0 0.75 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 84.28 -16.45 12.74
LAB*Lab 84.28 -15.68 8.73
LAB*Lab 84.28 -15.68 8.73
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olvi4* 0.5 1.0 0.5 (1.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*Lab 73.15 -31.94 20.73
LAB*Lab 73.15 -31.94 20.73
LAB*Lab 73.15 -31.94 20.73
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.25 1.0 0.25 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 62.02 -47.43 28.71
LAB*Lab 62.02 -47.43 28.71
LAB*Lab 62.02 -47.43 28.71
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 1.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
relative CIELAB lab*

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*Lab 76.06 -0.6 3.44
LAB*Lab 76.06 -0.6 3.44
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.5 0.75 0.5 (1.0)
cmyn3* 0.5 0.25 0.5 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 64.93 -16.09 11.44
LAB*Lab 64.93 -16.09 11.44
LAB*Lab 64.93 -16.09 11.44
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 53.8 -31.39 17.47
LAB*Lab 53.8 -31.39 17.47
LAB*Lab 53.8 -31.39 17.47
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
relative CIELAB lab*

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 56.71 -0.23 2.14
LAB*Lab 56.71 -0.23 2.14
LAB*Lab 56.71 -0.23 2.14
relative CIELAB lab*

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*Lab 56.71 -0.23 2.14
LAB*Lab 56.71 -0.23 2.14
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 45.58 -15.72 10.13
LAB*Lab 45.58 -15.72 10.13
LAB*Lab 45.58 -15.72 10.13
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.0 0.125 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
relative CIELAB lab*

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 56.71 -0.23 2.14
LAB*Lab 56.71 -0.23 2.14
LAB*Lab 56.71 -0.23 2.14
relative CIELAB lab*

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*Lab 56.71 -0.23 2.14
LAB*Lab 56.71 -0.23 2.14
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 45.58 -15.72 10.13
LAB*Lab 45.58 -15.72 10.13
LAB*Lab 45.58 -15.72 10.13
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
relative CIELAB lab*

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 56.71 -0.23 2.14
LAB*Lab 56.71 -0.23 2.14
LAB*Lab 56.71 -0.23 2.14
relative CIELAB lab*

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*Lab 56.71 -0.23 2.14
LAB*Lab 56.71 -0.23 2.14
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 45.58 -15.72 10.13
LAB*Lab 45.58 -15.72 10.13
LAB*Lab 45.58 -15.72 10.13
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
relative CIELAB lab*

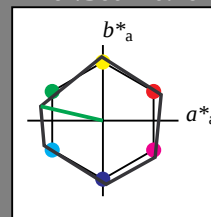
Ausgabe: Farbmimetrisches Reflexions-System NRS11

für Buntton $h^* = lab^*h = 167/360 = 0.464$

lab^*tch und lab^*nch

D65: Buntton G
LCH*Ma: 53 84 167
rgb*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^*



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	58.66	26.98	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 95.41 0.0 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*Lab 95.41 0.0 0.0
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.75 1.0 0.75 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 84.85 -20.53 4.74
LAB*Lab 84.85 -20.53 4.74
LAB*Lab 84.85 -20.53 4.74
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olvi4* 0.5 1.0 0.5 (1.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*Lab 74.31 0.02 0.0
LAB*Lab 74.31 0.02 0.0
LAB*Lab 74.31 0.02 0.0
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.25 1.0 0.25 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 63.75 -20.53 4.74
LAB*Lab 63.75 -20.53 4.74
LAB*Lab 63.75 -20.53 4.74
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 1.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
relative CIELAB lab*

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*Lab 74.31 0.02 0.0
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.5 0.75 0.5 (1.0)
cmyn3* 0.5 0.25 0.5 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 63.75 -20.53 4.74
LAB*Lab 63.75 -20.53 4.74
LAB*Lab 63.75 -20.53 4.74
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
relative CIELAB lab*

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 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
relative CIELAB lab*

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 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 45.58 -15.72 10.13
LAB*Lab 45.58 -15.72 10.13
LAB*Lab 45.58 -15.72 10.13
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.0 0.125 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
relative CIELAB lab*

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 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
relative CIELAB lab*

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 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
LAB*Lab 53.2 -41.19 9.49
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 45.58 -15.72 10.13
LAB*Lab 45.58 -15.72 10.13
LAB*Lab 45.58 -15.72 10.13
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
LAB*Lab 33.8 -31.39 17.47
relative CIELAB lab*

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.0 0.125 0.0 (0.0)
olvi4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 1.0 (0.0)
standard and adapted CIELAB
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
LAB*Lab 50.9 -62.79 34.95
relative CIELAB lab*

UG520-7, 5 stufige Reihen für konstanten CIELAB Buntton 151/360 = 0.419 (links)

5 stufige Reihen für konstanten CIELAB Buntton 167/360 = 0.464 (rechts)

BAM-Prüfvorlage UG52; Farbmimetrik-Systeme ORS18 & NRS11input: cmy0* setcmykcolor

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

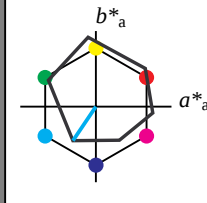
Eingabe: Farbmetrisches Reflexions-System ORS18

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

lab^*ch und lab^*nch

D65: Buntton C
LCH*Ma: 59 54 236
rgb*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



ORS18; adaptierte CIELAB-Daten

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.59	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularität

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

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

relative Inform. Technology (IT)
olvi3* 1.0 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 47.5
LAB*Lab 95.41 0.0 0.0
LAB*Lab 95.41 0.0 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*lrj 1.0 0.0 0.0
lab*lrce 1.0 0.0 0.0
lab*nce 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*Lab 76.06 0.0 0.0
LAB*Lab 76.06 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*lrj 0.75 0.0 0.0
lab*lrce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 0.0
LAB*Lab 56.71 0.0 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*lrj 0.5 0.0 0.0
lab*lrce 0.5 0.0 0.0
lab*nce 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 37.36 -0.38 0.63
LAB*Lab 37.36 0.0 0.0
LAB*Lab 37.36 0.0 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*lrj 0.25 0.0 0.0
lab*lrce 0.25 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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*Lab 18.02 0.0 0.46
LAB*Lab 18.02 0.0 0.0
LAB*Lab 18.02 0.0 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*lrj 0.0 0.0 0.0
lab*lrce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

relative Inform. Technology (IT)
olvi3* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olvi4* 0.75 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 86.21 -8.38 -7.1
LAB*Lab 86.21 -7.58 -11.24
LAB*Lab 86.21 13.57 236.01

relative CIELAB lab*
lab*lab 0.881 -0.139 -0.206
lab*ch 0.875 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*lrj 0.881 -0.123 -0.216
lab*lrce 0.875 0.25 0.656
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.5 0.75 0.75 (1.0)
cmyn3* 0.5 0.25 0.25 (0.0)
olvi4* 0.75 1.0 1.0 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 66.86 -8.01 -8.41
LAB*Lab 66.86 -7.58 -11.25
LAB*Lab 66.86 13.58 236.01

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*ch 0.625 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*lrj 0.631 -0.123 -0.216
lab*lrce 0.625 0.25 0.656
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.5 (0.0)
cmyn3* 0.75 0.5 0.5 (0.0)
olvi4* 0.75 1.0 1.0 (0.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 47.51 -7.64 -9.72
LAB*Lab 47.51 -7.58 -11.25
LAB*Lab 47.51 13.58 236.01

relative CIELAB lab*
lab*lab 0.381 -0.139 -0.206
lab*ch 0.375 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*lrj 0.381 -0.123 -0.216
lab*lrce 0.375 0.25 0.656
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olvi4* 0.5 1.0 1.0 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 28.17 -15.03 11.59
LAB*Lab 28.17 -7.58 -11.24
LAB*Lab 28.17 13.57 236.01

relative CIELAB lab*
lab*lab 0.131 -0.139 -0.206
lab*ch 0.125 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*lrj 0.131 -0.123 -0.216
lab*lrce 0.125 0.25 0.656
lab*nce 0.0 0.25 0.656

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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*Lab 18.02 0.0 0.46
LAB*Lab 18.02 0.0 0.0
LAB*Lab 18.02 0.0 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*lrj 0.0 0.0 0.0
lab*lrce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

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 77.01 -15.79 -19.98
LAB*Lab 77.01 -15.16 -22.5
LAB*Lab 77.01 27.15 236.01

relative CIELAB lab*
lab*lab 0.762 -0.278 -0.413
lab*ch 0.75 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*lrj 0.762 -0.247 -0.433
lab*lrce 0.75 0.5 0.656
lab*nce 0.0 0.5 0.656

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 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 57.66 -15.42 -20.29
LAB*Lab 57.66 -15.17 -22.5
LAB*Lab 57.66 27.15 236.01

relative CIELAB lab*
lab*lab 0.512 -0.279 -0.414
lab*ch 0.5 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*lrj 0.512 -0.247 -0.433
lab*lrce 0.5 0.5 0.656
lab*nce 0.0 0.5 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.75 (1.0)
cmyn3* 1.0 0.25 0.25 (0.0)
olvi4* 0.25 1.0 1.0 (0.0)
cmyn4* 0.0 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*Lab 48.47 -22.83 -32.16
LAB*Lab 48.47 -22.75 -33.78
LAB*Lab 48.47 27.15 236.01

relative CIELAB lab*
lab*lab 0.394 -0.418 -0.621
lab*ch 0.375 0.75 0.656
lab*nch 0.0 0.75 0.656
relative Natural Colour (NC)
lab*lrj 0.394 -0.371 -0.65
lab*lrce 0.375 0.75 0.656
lab*nce 0.0 0.75 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.25 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.25 1.0 1.0 (0.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 38.32 -15.16 -22.5
LAB*Lab 38.32 -15.16 -22.5
LAB*Lab 38.32 27.15 236.01

relative CIELAB lab*
lab*lab 0.262 -0.278 -0.413
lab*ch 0.25 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*lrj 0.262 -0.247 -0.433
lab*lrce 0.25 0.5 0.656
lab*nce 0.0 0.5 0.656

$n^* = 0.50$

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 67.81 -23.21 -30.86
LAB*Lab 67.81 -22.75 -33.78
LAB*Lab 67.81 27.15 236.01

relative CIELAB lab*
lab*lab 0.642 -0.418 -0.621
lab*ch 0.625 0.75 0.656
lab*nch 0.0 0.75 0.656
relative Natural Colour (NC)
lab*lrj 0.642 -0.371 -0.65
lab*lrce 0.625 0.75 0.656
lab*nce 0.0 0.75 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*Lab 58.62 -30.34 -45.01
LAB*Lab 58.62 -30.34 -45.01
LAB*Lab 58.62 27.15 236.01

relative CIELAB lab*
lab*lab 0.525 -0.558 -0.828
lab*ch 0.5 1.0 0.656
lab*nch 0.0 1.0 0.656
relative Natural Colour (NC)
lab*lrj 0.525 -0.496 -0.867
lab*lrce 0.5 1.0 0.656
lab*nce 0.0 1.0 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.25 (1.0)
cmyn3* 1.0 0.25 0.25 (0.0)
olvi4* 0.25 1.0 1.0 (0.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 48.47 -22.83 -32.16
LAB*Lab 48.47 -22.75 -33.78
LAB*Lab 48.47 27.15 236.01

relative CIELAB lab*
lab*lab 0.394 -0.418 -0.621
lab*ch 0.375 0.75 0.656
lab*nch 0.0 0.75 0.656
relative Natural Colour (NC)
lab*lrj 0.394 -0.371 -0.65
lab*lrce 0.375 0.75 0.656
lab*nce 0.0 0.75 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*Lab 11.01 0.0 0.0
LAB*Lab 11.01 0.0 0.0
LAB*Lab 11.01 0.0 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*lrj 0.0 0.0 0.0
lab*lrce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 0.25$

Schwarzheit n^*

relative Buntheit c^*

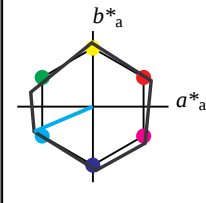
Ausgabe: Farbmetrisches Reflexions-System NRS11

für Buntton $h^* = lab^*h = 203/360 = 0.564$

lab^*ch und lab^*nch

D65: Buntton G50B
LCH*Ma: 53 84 203
rgb*Ma: 0.0 1.0 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*Lab 95.41 0.0 0.0
LAB*Lab 95.41 0.0 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*lrj 1.0 0.0 0.0
lab*lrce 1.0 0.0 0.0
lab*nce 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*Lab 74.31 0.0 0.0
LAB*Lab 74.31 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*lrj 0.75 0.0 0.0
lab*lrce 0.75 0.0 0.0
lab*nce 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*Lab 53.21 0.0 0.0
LAB*Lab 53.21 0.0 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*lrj 0.5 0.0 0.0
lab*lrce 0.5 0.0 0.0
lab*nce 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 0.05 0.0
LAB*Lab 32.11 0.0 0.0
LAB*Lab 32.11 0.0 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*lrj 0.25 0.0 0.0
lab*lrce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.25 (1.0)
cmyn3* 1.0 0.25 0.25 (0.0)
olvi4* 0.25 1.0 1.0 (0.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 18.02 0.0 0.46
LAB*Lab 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.25 0.25 (1.0)
lab*ch 0.0 0.25 0.25 (0.0)
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.25 0.25 (1.0)
lab*lrce 0.0 0.25 0.25 (0.0)
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

relative Inform. Technology (IT)
olvi3* 0.5 0.75 0.75 (1.0)
cmyn3* 0.5 0.25 0.25 (0.0)
olvi4* 0.75 1.0 1.0 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 63.75 -19.39 -8.23
LAB*Lab 63.75 -19.42 -8.24
LAB*Lab 63.75 21.11 203.0

relative CIELAB lab*
lab*lab 0.75 0.25 0.593
lab*ch 0.75 0.25 0.593
lab*nch 0.0 0.25 0.593
relative Natural Colour (NC)
lab*lrj 0.75 0.25 0.593
lab*lrce 0.75 0.25 0.593
lab*nce 0.0 0.25 0.593

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.5 (0.0)
cmyn3* 0.75 0.5 0.5 (0.0)
olvi4* 0.75 1.0 1.0 (0.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 53.2 0.04 0.0
LAB*Lab 53.2 0.0 0.0
LAB*Lab 53.2 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.25 0.593
lab*ch 0.5 0.25 0.593
lab*nch 0.0 0.25 0.593
relative Natural Colour (NC)
lab*lrj 0.5 0.25 0.593
lab*lrce 0.5 0.25 0.593
lab*nce 0.0 0.25 0.593

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olvi4* 0.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*Lab 42.65 -19.39 -8.23
LAB*Lab 42.65 -19.42 -8.24
LAB*Lab 42.65 21.11 203.0

relative CIELAB lab*
lab*lab 0.25 0.5 0.593
lab*ch 0.25 0.5 0.593
lab*nch 0.0 0.5 0.593
relative Natural Colour (NC)
lab*lrj 0.25 0.5 0.593
lab*lrce 0.25 0.5 0.593
lab*nce 0.0 0.5 0.593

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.25 (1.0)
cmyn3* 1.0 0.25 0.25 (0.0)
olvi4* 0.25 1.0 1.0 (0.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 32.1 0.05 0.0
LAB*Lab 32.1 0.0 0.0
LAB*Lab 32.1 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.593
lab*ch 0.25 0.25 0.593
lab*nch 0.0 0.25 0.593
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.593
lab*lrce 0.25 0.25 0.593
lab*nce 0.0 0.25 0.593

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.

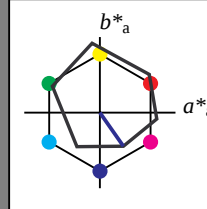
Eingabe: Farbmetrisches Reflexions-System ORS18

für Buntton $h^* = lab^*h = 305/360 = 0.847$

lab^*ch und lab^*nch

D65: Buntton V
LCH*Ma: 26 54 305
rgb*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



ORS18; adaptierte CIELAB-Daten

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

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

$g^*_{C,rel} = 15.55$

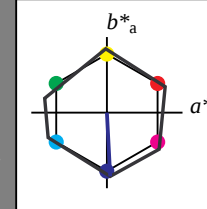
Ausgabe: Farbmetrisches Reflexions-System NRS11

für Buntton $h^* = lab^*h = 273/360 = 0.758$

lab^*ch und lab^*nch

D65: Buntton B
LCH*Ma: 53 84 273
rgb*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



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

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

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

UG520-7, 5 stufige Reihen für konstanten CIELAB Buntton 305/360 = 0.847 (links)

5 stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.758 (rechts)

BAM-Prüfvorlage UG52; Farbmetrik-Systeme ORS18 & NRS11input: $cmY0^* setcmykcolor$

D65: 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen; no change compared to input

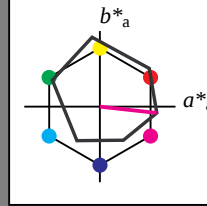
Eingabe: Farbmetrisches Reflexions-System ORS18

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

lab^*ch und lab^*nch

D65: Buntton M
LCH*Ma: 48 76 354
rgb*Ma: 1.0 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 47.5
LAB*Lab 95.41 0.0 0.0
LAB*TCa 99.99 0.01 -

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*Lab 76.06 0.0 0.0
LAB*TCa 75.0 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCa 50.0 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.03 0.63
LAB*Lab 37.36 0.0 0.0
LAB*TCa 25.0 0.01 -

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

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

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

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 0.0
LAB*TCa 0.01 0.01 -

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

ORS18; adaptierte CIELAB-Daten

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

%Regularität

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

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

relative Inform. Technology (IT)

olvi3* 1.0 0.5 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 71.77 37.1 -1.01
LAB*Lab 71.77 37.63 -4.17
LAB*TCa 75.0 37.96 353.66

relative CIELAB lab*
lab*lab 0.695 0.497 -0.054
lab*ch 0.75 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*trj 0.695 0.454 -0.208
lab*trc 0.75 0.5 0.932
lab*ncc 0.0 0.5 0.724

relative Inform. Technology (IT)

olvi3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (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 52.42 37.63 -4.17
LAB*Lab 52.42 37.63 -4.17
LAB*TCa 50.0 37.96 353.66

relative CIELAB lab*
lab*lab 0.445 0.454 -0.208
lab*ch 0.75 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*trj 0.445 0.454 -0.208
lab*trc 0.75 0.5 0.932
lab*ncc 0.0 0.5 0.724

relative Inform. Technology (IT)

olvi3* 0.5 0.0 0.5 (0.0)
cmyn3* 0.5 0.0 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 33.08 37.63 -4.17
LAB*Lab 33.08 37.63 -4.17
LAB*TCa 25.01 37.96 353.66

relative CIELAB lab*
lab*lab 0.195 0.497 -0.054
lab*ch 0.25 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*trj 0.195 0.454 -0.208
lab*trc 0.25 0.5 0.932
lab*ncc 0.0 0.5 0.724

relative Inform. Technology (IT)

olvi3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.75 1.0 0.75 (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 25.54 19.17 2.04
LAB*Lab 25.54 18.81 -2.08
LAB*TCa 12.5 18.92 353.66

relative CIELAB lab*
lab*lab 0.097 0.248 -0.027
lab*ch 0.125 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.097 0.248 -0.027
lab*trc 0.125 0.25 0.932
lab*ncc 0.0 0.25 0.724

relative Inform. Technology (IT)

olvi3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 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 59.95 56.14 -3.9
LAB*Lab 59.95 56.44 -6.26
LAB*TCa 62.5 56.79 353.66

relative CIELAB lab*
lab*lab 0.542 0.745 -0.082
lab*ch 0.625 0.75 0.982
lab*nch 0.0 0.75 0.982
relative Natural Colour (NC)
lab*trj 0.542 0.682 -0.312
lab*trc 0.625 0.75 0.932
lab*ncc 0.0 0.75 0.724

relative Inform. Technology (IT)

olvi3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 1.0 0.25 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.14 75.18 -6.78
LAB*Lab 48.14 75.25 -8.35
LAB*TCa 50.0 75.71 353.66

relative CIELAB lab*
lab*lab 0.389 0.994 -0.109
lab*ch 0.5 0.0 0.982
lab*nch 0.0 0.0 0.982
relative Natural Colour (NC)
lab*trj 0.389 0.909 -0.416
lab*trc 0.5 0.0 0.932
lab*ncc 0.0 0.0 0.724

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 32.11 -12.11
LAB*Lab 32.11 32.11 -12.11
LAB*TCa 25.01 32.11 353.66

relative CIELAB lab*
lab*lab 0.292 0.745 -0.082
lab*ch 0.375 0.75 0.982
lab*nch 0.0 0.75 0.982
relative Natural Colour (NC)
lab*trj 0.292 0.682 -0.312
lab*trc 0.375 0.75 0.932
lab*ncc 0.0 0.75 0.724

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 0.0 0.0
LAB*Lab 11.01 0.0 0.0
LAB*TCa 0.0 0.0 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

$n^* = 0.00$

$n^* = 0.25$

Schwarzheit n^*

$n^* = 0.50$

$n^* = 1.00$

relative Buntheit c^*

$n^* = 1.0$

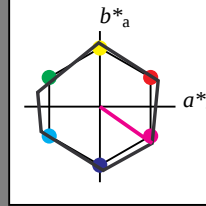
Ausgabe: Farbmetrisches Reflexions-System NRS11

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

lab^*ch und lab^*nch

D65: Buntton B50R
LCH*Ma: 53 84 325
rgb*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 119$

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 -

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*Lab 74.31 0.02 0.0
LAB*TCa 75.0 0.01 -

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*Lab 53.21 0.04 0.0
LAB*TCa 50.0 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 0.05 0.0
LAB*Lab 32.11 0.05 0.0
LAB*TCa 25.0 0.01 -

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* 0.25 0.0 0.25 (1.0)
cmyn3* 0.75 1.0 0.75 (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 21.55 17.33 12.07
LAB*Lab 21.55 17.27 -12.09
LAB*TCa 12.5 21.08 324.98

relative CIELAB lab*
lab*lab 0.125 0.205 -0.142
lab*ch 0.125 0.25 0.903
lab*nch 0.0 0.25 0.903
relative Natural Colour (NC)
lab*trj 0.125 0.168 -0.184
lab*trc 0.125 0.25 0.867
lab*ncc 0.0 0.25 0.867

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 0.0 0.0
LAB*Lab 11.01 0.0 0.0
LAB*TCa 0.0 0.0 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

$n^* = 0.00$

$n^* = 0.25$

Schwarzheit n^*

$n^* = 0.50$

$n^* = 1.00$

relative Buntheit c^*

$n^* = 1.0$

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 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 74.3 34.57 -24.19
LAB*Lab 74.3 34.54 -24.2
LAB*TCa 75.0 42.18 324.98

relative CIELAB lab*
lab*lab 0.75 0.409 -0.286
lab*ch 0.75 0.5 0.903
lab*nch 0.0 0.5 0.903
relative Natural Colour (NC)
lab*trj 0.75 0.336 -0.37
lab*trc 0.75 0.5 0.867
lab*ncc 0.0 0.5 0.867

relative Inform. Technology (IT)

olvi3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (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 53.2 34.57 -24.19
LAB*Lab 53.2 34.55 -24.2
LAB*TCa 50.0 42.19 324.98

relative CIELAB lab*
lab*lab 0.625 0.614 -0.429
lab*ch 0.625 0.75 0.903
lab*nch 0.0 0.75 0.903
relative Natural Colour (NC)
lab*trj 0.625 0.503 -0.555
lab*trc 0.625 0.75 0.867
lab*ncc 0.0 0.75 0.867

relative Inform. Technology (IT)

olvi3* 0.5 0.0 0.5 (0.0)
cmyn3* 0.5 0.0 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 32.1 34.57 -24.18
LAB*Lab 32.1 34.54 -24.2
LAB*TCa 25.0 42.19 324.98

relative CIELAB lab*
lab*lab 0.375 0.614 -0.429
lab*ch 0.375 0.75 0.903
lab*nch 0.

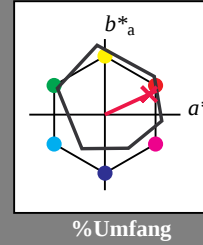
Eingabe: Farbmetrisches Reflexions-System ORS18

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^*



ORS18; adaptierte CIELAB-Daten

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

%Regularität

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

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

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
olvi6*	0.0	0.0	0.0	(0.0)
olvi7*	0.0	0.0	0.0	(0.0)
olvi8*	0.0	0.0	0.0	(0.0)
olvi9*	0.0	0.0	0.0	(0.0)
olvi10*	0.0	0.0	0.0	(0.0)
olvi11*	0.0	0.0	0.0	(0.0)
olvi12*	0.0	0.0	0.0	(0.0)
olvi13*	0.0	0.0	0.0	(0.0)
olvi14*	0.0	0.0	0.0	(0.0)
olvi15*	0.0	0.0	0.0	(0.0)
olvi16*	0.0	0.0	0.0	(0.0)
olvi17*	0.0	0.0	0.0	(0.0)
olvi18*	0.0	0.0	0.0	(0.0)
olvi19*	0.0	0.0	0.0	(0.0)
olvi20*	0.0	0.0	0.0	(0.0)
olvi21*	0.0	0.0	0.0	(0.0)
olvi22*	0.0	0.0	0.0	(0.0)
olvi23*	0.0	0.0	0.0	(0.0)
olvi24*	0.0	0.0	0.0	(0.0)
olvi25*	0.0	0.0	0.0	(0.0)
olvi26*	0.0	0.0	0.0	(0.0)
olvi27*	0.0	0.0	0.0	(0.0)
olvi28*	0.0	0.0	0.0	(0.0)
olvi29*	0.0	0.0	0.0	(0.0)
olvi30*	0.0	0.0	0.0	(0.0)
olvi31*	0.0	0.0	0.0	(0.0)
olvi32*	0.0	0.0	0.0	(0.0)
olvi33*	0.0	0.0	0.0	(0.0)
olvi34*	0.0	0.0	0.0	(0.0)
olvi35*	0.0	0.0	0.0	(0.0)
olvi36*	0.0	0.0	0.0	(0.0)
olvi37*	0.0	0.0	0.0	(0.0)
olvi38*	0.0	0.0	0.0	(0.0)
olvi39*	0.0	0.0	0.0	(0.0)
olvi40*	0.0	0.0	0.0	(0.0)
olvi41*	0.0	0.0	0.0	(0.0)
olvi42*	0.0	0.0	0.0	(0.0)
olvi43*	0.0	0.0	0.0	(0.0)
olvi44*	0.0	0.0	0.0	(0.0)
olvi45*	0.0	0.0	0.0	(0.0)
olvi46*	0.0	0.0	0.0	(0.0)
olvi47*	0.0	0.0	0.0	(0.0)
olvi48*	0.0	0.0	0.0	(0.0)
olvi49*	0.0	0.0	0.0	(0.0)
olvi50*	0.0	0.0	0.0	(0.0)
olvi51*	0.0	0.0	0.0	(0.0)
olvi52*	0.0	0.0	0.0	(0.0)
olvi53*	0.0	0.0	0.0	(0.0)
olvi54*	0.0	0.0	0.0	(0.0)
olvi55*	0.0	0.0	0.0	(0.0)
olvi56*	0.0	0.0	0.0	(0.0)
olvi57*	0.0	0.0	0.0	(0.0)
olvi58*	0.0	0.0	0.0	(0.0)
olvi59*	0.0	0.0	0.0	(0.0)
olvi60*	0.0	0.0	0.0	(0.0)
olvi61*	0.0	0.0	0.0	(0.0)
olvi62*	0.0	0.0	0.0	(0.0)
olvi63*	0.0	0.0	0.0	(0.0)
olvi64*	0.0	0.0	0.0	(0.0)
olvi65*	0.0	0.0	0.0	(0.0)
olvi66*	0.0	0.0	0.0	(0.0)
olvi67*	0.0	0.0	0.0	(0.0)
olvi68*	0.0	0.0	0.0	(0.0)
olvi69*	0.0	0.0	0.0	(0.0)
olvi70*	0.0	0.0	0.0	(0.0)
olvi71*	0.0	0.0	0.0	(0.0)
olvi72*	0.0	0.0	0.0	(0.0)
olvi73*	0.0	0.0	0.0	(0.0)
olvi74*	0.0	0.0	0.0	(0.0)
olvi75*	0.0	0.0	0.0	(0.0)
olvi76*	0.0	0.0	0.0	(0.0)
olvi77*	0.0	0.0	0.0	(0.0)
olvi78*	0.0	0.0	0.0	(0.0)
olvi79*	0.0	0.0	0.0	(0.0)
olvi80*	0.0	0.0	0.0	(0.0)
olvi81*	0.0	0.0	0.0	(0.0)
olvi82*	0.0	0.0	0.0	(0.0)
olvi83*	0.0	0.0	0.0	(0.0)
olvi84*	0.0	0.0	0.0	(0.0)
olvi85*	0.0	0.0	0.0	(0.0)
olvi86*	0.0	0.0	0.0	(0.0)
olvi87*	0.0	0.0	0.0	(0.0)
olvi88*	0.0	0.0	0.0	(0.0)
olvi89*	0.0	0.0	0.0	(0.0)
olvi90*	0.0	0.0	0.0	(0.0)
olvi91*	0.0	0.0	0.0	(0.0)
olvi92*	0.0	0.0	0.0	(0.0)
olvi93*	0.0	0.0	0.0	(0.0)
olvi94*	0.0	0.0	0.0	(0.0)
olvi95*	0.0	0.0	0.0	(0.0)
olvi96*	0.0	0.0	0.0	(0.0)
olvi97*	0.0	0.0	0.0	(0.0)
olvi98*	0.0	0.0	0.0	(0.0)
olvi99*	0.0	0.0	0.0	(0.0)
olvi100*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.831	(1.0)
olvi4*	0.0	0.25	0.169	(0.0)
olvi5*	1.0	0.75	0.831	(1.0)
olvi6*	0.0	0.25	0.169	(0.0)
olvi7*	1.0	0.75	0.831	(1.0)
olvi8*	0.0	0.25	0.169	(0.0)
olvi9*	1.0	0.75	0.831	(1.0)
olvi10*	0.0	0.25	0.169	(0.0)
olvi11*	1.0	0.75	0.831	(1.0)
olvi12*	0.0	0.25	0.169	(0.0)
olvi13*	1.0	0.75	0.831	(1.0)
olvi14*	0.0	0.25	0.169	(0.0)
olvi15*	1.0	0.75	0.831	(1.0)
olvi16*	0.0	0.25	0.169	(0.0)
olvi17*	1.0	0.75	0.831	(1.0)
olvi18*	0.0	0.25	0.169	(0.0)
olvi19*	1.0	0.75	0.831	(1.0)
olvi20*	0.0	0.25	0.169	(0.0)
olvi21*	1.0	0.75	0.831	(1.0)
olvi22*	0.0	0.25	0.169	(0.0)
olvi23*	1.0	0.75	0.831	(1.0)
olvi24*	0.0	0.25	0.169	(0.0)
olvi25*	1.0	0.75	0.831	(1.0)
olvi26*	0.0	0.25	0.169	(0.0)
olvi27*	1.0	0.75	0.831	(1.0)
olvi28*	0.0	0.25	0.169	(0.0)
olvi29*	1.0	0.75	0.831	(1.0)
olvi30*	0.0	0.25	0.169	(0.0)
olvi31*	1.0	0.75	0.831	(1.0)
olvi32*	0.0	0.25	0.169	(0.0)
olvi33*	1.0	0.75	0.831	(1.0)
olvi34*	0.0	0.25	0.169	(0.0)
olvi35*	1.0	0.75	0.831	(1.0)
olvi36*	0.0	0.25	0.169	(0.0)
olvi37*	1.0	0.75	0.831	(1.0)
olvi38*	0.0	0.25	0.169	(0.0)
olvi39*	1.0	0.75	0.831	(1.0)
olvi40*	0.0	0.25	0.169	(0.0)
olvi41*	1.0	0.75	0.831	(1.0)
olvi42*	0.0	0.25	0.169	(0.0)
olvi43*	1.0	0.75	0.831	(1.0)
olvi44*	0.0	0.25	0.169	(0.0)
olvi45*	1.0	0.75	0.831	(1.0)
olvi46*	0.0	0.25	0.169	(0.0)
olvi47*	1.0	0.75	0.831	(1.0)
olvi48*	0.0	0.25	0.169	(0.0)
olvi49*	1.0	0.75	0.831	(1.0)
olvi50*	0.0	0.25	0.169	(0.0)
olvi51*	1.0	0.75	0.831	(1.0)
olvi52*	0.0	0.25	0.169	(0.0)
olvi53*	1.0	0.75	0.831	(1.0)
olvi54*	0.0	0.25	0.169	(0.0)
olvi55*	1.0	0.75	0.831	(1.0)
olvi56*	0.0	0.25	0.169	(0.0)
olvi57*	1.0	0.75	0.831	(1.0)
olvi58*	0.0	0.25	0.169	(0.0)
olvi59*	1.0	0.75	0.831	(1.0)
olvi60*	0.0	0.25	0.169	(0.0)
olvi61*	1.0	0.75	0.831	(1.0)
olvi62*	0.0	0.25	0.169	(0.0)
olvi63*	1.0	0.75	0.831	(1.0)
olvi64*	0.0	0.25	0.169	(0.0)
olvi65*	1.0	0.75	0.831	(1.0)
olvi66*	0.0	0.25	0.169	(0.0)
olvi67*	1.0	0.75	0.831	(1.0)
olvi68*	0.0	0.25	0.169	(0.0)
olvi69*	1.0	0.75	0.831	(1.0)
olvi70*	0.0	0.25	0.169	(0.0)
olvi71*	1.0	0.75	0.831	(1.0)
olvi72*	0.0	0.25	0.169	(0.0)
olvi73*	1.0	0.75	0.831	(1.0)
olvi74*	0.0	0.25	0.169	(0.0)
olvi75*	1.0	0.75	0.831	(1.0)
olvi76*	0.0	0.25	0.169	(0.0)
olvi77*	1.0	0.75	0.831	(1.0)
olvi78*	0.0	0.25	0.169	(0.0)
olvi79*	1.0	0.75	0.831	(1.0)
olvi80*	0.0	0.25	0.169	(0.0)
olvi81*	1.0	0.75	0.831	(1.0)
olvi82*	0.0	0.25	0.169	(0.0)
olvi83*	1.0	0.75	0.831	(1.0)
olvi84*	0.0	0.25	0.169	(0.0)
olvi85*	1.0	0.75	0.831	(1.0)
olvi86*	0.0	0.25	0.169	(0.0)
olvi87*	1.0	0.75	0.831	(1.0)
olvi88*	0.0	0.25	0.169	(0.0)
olvi89*	1.0	0.75	0.831	(1.0)
olvi90*	0.0	0.25	0.169	(0.0)
olvi91*	1.0	0.75	0.831	(1.0)
olvi92*	0.0	0.25	0.169	(0.0)
olvi93*	1.0	0.75	0.831	(1.0)
olvi94*	0.0	0.25	0.169	(0.0)
olvi95*	1.0	0.75	0.831	(1.0)
olvi96*	0.0	0.25	0.169	(0.0)
olvi97*	1.0	0.75	0.831	(1.0)
olvi98*	0.0	0.25	0.169	(0.0)
olvi99*	1.0	0.75	0.831	(1.0)
olvi100*	0.0	0.25	0.169	(0.0)

relative Inform. Technology (IT)				
olvi3*	1.0	0.5	0.661	(1.0)
cmyn3*	0.0	0.5	0.339	(0.0)
olvi4*	1.0	0.5	0.661	(1.0)
cmyn4*	0.0	0.5	0.339	(0.0)
standard and adapted CIELAB				
LAB*LAB	71.7	33.75	18.92	
LAB*LABa	71.7	34.27	15.76	

