

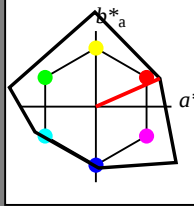
Eingabe: Farbmetrisches Reflexions-System NCS11

für Buntton $h^* = lab^*h = 24/360 = 0.066$ lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 47 92 24

rgb*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit t^* 

%Umfang

 $u^*_{rel} = 149$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.41	0.0	-0.01	
LAB*LABa	95.41	0.0	0.0	
LAB*LABb	99.99	0.01	0.0	

relative CIELAB lab*

lab*lab	1.0	0.0	0.0	
lab*ch	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*ch	1.0	0.0	0.0	
lab*nch	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)
LAB*LAB	74.31	0.02	0.0	
LAB*LABa	74.31	0.02	0.0	
LAB*LABb	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*ch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Natural Colour (NC)

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 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)
LAB*LAB	53.21	0.04	0.0	
LAB*LABa	53.21	0.04	0.0	
LAB*LABb	50.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.5	0.0	0.0	
lab*ch	0.5	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Natural Colour (NC)

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 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)
LAB*LAB	32.11	0.01	0.0	
LAB*LABa	32.11	0.01	0.0	
LAB*LABb	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*lab	0.25	0.0	0.0	
lab*ch	0.25	0.0	0.0	
lab*nch	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)
LAB*LAB	11.01	0.07	0.01	
LAB*LABa	11.01	0.07	0.01	
LAB*LABb	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Natural Colour (NC)

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 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)
LAB*LAB	11.01	0.07	0.01	
LAB*LABa	11.01	0.07	0.01	
LAB*LABb	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Natural Colour (NC)

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 Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	83.34	21.17	9.31	
LAB*LABa	83.34	21.17	9.31	
LAB*LABb	97.5	23.11	23.75	

relative CIELAB lab*

lab*lab	0.87	0.22	0.101	
lab*ch	0.87	0.22	0.101	
lab*nch	0.0	0.25	0.066	

relative Natural Colour (NC)

lab*lab	0.87	0.22	0.101	
lab*ch	0.87	0.22	0.101	
lab*nch	0.0	0.25	0.066	

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)
LAB*LAB	62.24	21.2	9.32	
LAB*LABa	62.24	21.2	9.32	
LAB*LABb	62.5	23.12	23.75	

relative CIELAB lab*

lab*lab	0.607	0.229	0.101	
lab*ch	0.625	0.25	0.066	
lab*nch	0.25	0.25	0.066	

relative Natural Colour (NC)

lab*lab	0.607	0.25	0.066	
lab*ch	0.625	0.25	0.066	
lab*nch	0.25	0.25	0.066	

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)
LAB*LAB	50.17	42.37	18.64	
LAB*LABa	50.17	42.37	18.64	
LAB*LABb	50.0	46.23	23.75	

relative CIELAB lab*

lab*lab	0.464	0.58	0.201	
lab*ch	0.464	0.58	0.201	
lab*nch	0.0	0.5	0.066	

relative Natural Colour (NC)

lab*lab	0.464	0.58	0.201	
lab*ch	0.464	0.58	0.201	
lab*nch	0.0	0.5	0.066	

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)
LAB*LAB	29.07	42.38	18.64	
LAB*LABa	29.07	42.38	18.64	
LAB*LABb	29.01	46.23	23.75	

relative CIELAB lab*

lab*lab	0.352	0.25	0.066	
lab*ch	0.352	0.25	0.066	
lab*nch	0.0	0.25	0.066	

relative Natural Colour (NC)

lab*lab	0.352	0.25	0.066	
lab*ch	0.352	0.25	0.066	
lab*nch	0.0	0.25	0.066	

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)
LAB*LAB	20.04	21.22	9.33	
LAB*LABa	20.04	21.22	9.33	
LAB*LABb	12.5	23.11	23.75	

relative CIELAB lab*

lab*lab	0.107	0.229	0.101	
lab*ch	0.125	0.25	0.066	
lab*nch	0.0	0.25	0.066	

relative Natural Colour (NC)

lab*lab	0.107	0.229	0.101	
lab*ch	0.125	0.25	0.066	
lab*nch	0.0	0.25	0.066	

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)
LAB*LAB	11.01	0.07	0.01	
LAB*LABa	11.01	0.07	0.01	
LAB*LABb	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0	
lab*ch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

NCS11; adaptierte CIELAB-Daten

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

RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

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

relative Inform. Technology (IT)

olvi3*	1.0	0.5	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)
LAB*LAB	71.27	42.34	18.63	
LAB*LABa	71.27	42.34	18.63	
LAB*LABb	71.27	42.34	18.63	

relative CIELAB lab*

lab*lab	0.714	0.58	0.201	
lab*ch	0.714	0.58	0.201	
lab*nch	0.0	0.5	0.066	

relative Natural Colour (NC)

lab*lab	0.714	0.58	0.201	
lab*ch	0.714	0.58	0.201	
lab*nch	0.0	0.5	0.066	

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)
LAB*LAB	50.17	42.37	18.64	
LAB*LABa	50.17	42.37	18.64	
LAB*LABb	50.0	46.23	23.75	

relative CIELAB lab*

lab*lab	0.464	0.58	0.201	
lab*ch	0.464	0.58	0.201	
lab*nch	0.0	0.5	0.066	

relative Natural Colour (NC)

lab*lab	0.464	0.58	0.201	
lab*ch	0.464	0.58	0.201	
lab*nch	0.0	0.5	0.066	

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	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	29.07	42.38	18.64	
LAB*LABa	29.07	42.38	18.64	
LAB*LABb	29.01	46.23	23.75	

relative CIELAB lab*

lab*lab	0.352	0.25	0.066	
lab*ch	0.352	0.25	0.066	
lab*nch	0.0	0.25	0.066	

relative Natural Colour (NC)

lab*lab	0.352	0.25	0.066	
lab*ch	0.352	0.25	0.066	
lab*nch	0.0	0.25	0.066	

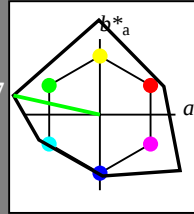
Eingabe: Farbmetrisches Reflexions-System NCS11

für Buntton $h^* = lab^*h = 167/360 = 0.465$ lab^*ch und lab^*nch

D65: Buntton G

LCH*Ma: 63 117 167

rgb*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^* 

%Umfang

 $u^*_{rel} = 149$

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 -0.01

LAB*LABa 95.41 0.0 0.0

LAB*LABb 95.41 0.0 0.0

LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.02 0.0

LAB*LABa 74.31 0.02 0.0

LAB*LABb 74.31 0.02 0.0

LAB*LABc 74.31 0.02 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (0.0)

cmyn3* 0.5 0.5 0.5 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 53.21 0.04 0.0

LAB*LABa 53.21 0.04 0.0

LAB*LABb 53.21 0.04 0.0

LAB*LABc 53.21 0.04 0.0

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (0.0)

cmyn3* 0.75 0.75 0.75 (1.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 32.11 0.07 0.01

LAB*LABa 32.11 0.07 0.01

LAB*LABb 32.11 0.07 0.01

LAB*LABc 32.11 0.07 0.01

relative CIELAB lab*

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (1.0)

cmyn3* 1.0 1.0 1.0 (0.0)

olvi4* 1.0 1.0 1.0 (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

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

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

LAB*LABa 0.01 0.01

LAB*LABb 0.01 0.01

LAB*LABc 0.01 0.01

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

NCS11; adaptierte CIELAB-Daten

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

RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

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

relative Inform. Technology (IT)

olvi3* 0.5 1.0 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 79.24 -57.12 12.67

LAB*LABa 79.24 -57.12 12.67

LAB*LABb 79.24 -57.12 12.67

LAB*LABc 79.24 -57.12 12.67

relative CIELAB lab*

lab*lab 0.808 -0.487 0.108

lab*lab 0.808 -0.487 0.108

lab*lab 0.808 -0.487 0.108

lab*lab 0.808 -0.487 0.108

relative Natural Colour (NC)

lab*lab 0.808 -0.487 0.108

lab*lab 0.808 -0.487 0.108

lab*lab 0.808 -0.487 0.108

lab*lab 0.808 -0.487 0.108

relative Inform. Technology (IT)

olvi3* 0.25 0.75 0.25 (1.0)

cmyn3* 0.75 0.25 0.75 (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 66.22 -28.53 6.34

LAB*LABa 66.22 -28.53 6.34

LAB*LABb 66.22 -28.53 6.34

LAB*LABc 66.22 -28.53 6.34

relative CIELAB lab*

lab*lab 0.713 -0.731 0.162

lab*lab 0.713 -0.731 0.162

lab*lab 0.713 -0.731 0.162

lab*lab 0.713 -0.731 0.162

relative Natural Colour (NC)

lab*lab 0.713 -0.731 0.162

lab*lab 0.713 -0.731 0.162

lab*lab 0.713 -0.731 0.162

lab*lab 0.713 -0.731 0.162

relative Inform. Technology (IT)

olvi3* 0.0 0.75 0.0 (1.0)

cmyn3* 0.75 0.0 0.75 (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 58.14 -57.09 12.68

LAB*LABa 58.14 -57.09 12.68

LAB*LABb 58.14 -57.09 12.68

LAB*LABc 58.14 -57.09 12.68

relative CIELAB lab*

lab*lab 0.625 0.75 0.512

lab*lab 0.625 0.75 0.512

lab*lab 0.625 0.75 0.512

lab*lab 0.625 0.75 0.512

relative Natural Colour (NC)

lab*lab 0.625 0.75 0.512

lab*lab 0.625 0.75 0.512

lab*lab 0.625 0.75 0.512

lab*lab 0.625 0.75 0.512

relative Inform. Technology (IT)

olvi3* 0.0 0.5 0.0 (1.0)

cmyn3* 0.5 0.0 0.5 (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 50.06 -85.65 19.02

LAB*LABa 50.06 -85.65 19.02

LAB*LABb 50.06 -85.65 19.02

LAB*LABc 50.06 -85.65 19.02

relative CIELAB lab*

lab*lab 0.463 -0.731 0.162

lab*lab 0.463 -0.731 0.162

lab*lab 0.463 -0.731 0.162

lab*lab 0.463 -0.731 0.162

relative Natural Colour (NC)

lab*lab 0.463 -0.731 0.162

lab*lab 0.463 -0.731 0.162

lab*lab 0.463 -0.731 0.162

lab*lab 0.463 -0.731 0.162

relative Inform. Technology (IT)

olvi3* 0.0 0.25 0.0 (1.0)

cmyn3* 0.25 0.0 0.25 (0.0)

olvi4* 0.0 1.0 0.0 (1.0)

cmyn4* 0.0 0.0 0.0 (1.0)

standard and adapted CIELAB

LAB*LAB 37.04 -57.12 12.67

LAB*LABa 37.04 -57.12 12.67

LAB*LABb 37.04 -57.12 12.67

LAB*LABc 37.04 -57.12 12.67

relative CIELAB lab*

lab*lab 0.309 -0.487 0.108

lab*lab 0.309 -0.487 0.108

lab*lab 0.309 -0.487 0.108

lab*lab 0.309 -0.487 0.108

relative Natural Colour (NC)

lab*lab 0.309 -0.487 0.108

lab*lab 0.309 -0.487 0.108

lab*lab 0.309 -0.487 0.108

lab*lab 0.309 -0.487 0.108

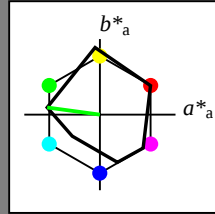
Ausgabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 172/360 = 0.479$ lab^*ch und lab^*nch

D65: Buntton G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^* 

%Umfang

 $u^*_{rel} = 91$

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 -0.97 4.75

LAB*LABa 95.41 0.0 0.0

LAB*LABb 95.41 0.0 0.0

LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 76.06 -0.6 3.44

LAB*LABa 76.06 -0.6 3.44

LAB*LABb 76.06 -0.6 3.44

LAB*LABc 76.06 -0.6 3.44

relative CIELAB lab*

lab*lab 0.86 -0.247 0.034

lab*lab 0.86 -0.247 0.034

lab*lab 0.86 -0.247 0.034

lab*lab 0.86 -0.247 0.034

relative Natural Colour (NC)

lab*lab 0.86 -0.247 0.034

lab*lab 0.86 -0.247 0.034

lab*lab 0.86 -0.247 0.034

lab*lab 0.86 -0.247 0.034

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (1.0)

cmyn3* 0.5 0.5 0.5 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 56.71 0.23 2.14

LAB*LABa 56.71 0.23 2.14

LAB*LABb 56.71 0.23 2.14

LAB*LABc 56.71 0.23 2.14

relative CIELAB lab*

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

relative Natural Colour (NC)

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

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 35.06 -17.42 3.36

LAB*LABa 35.06 -17.42 3.36

LAB*LABb 35.06 -17.42 3.36

LAB*LABc 35.06 -17.42 3.36

relative CIELAB lab*

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

relative Natural Colour (NC)

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

relative Inform. Technology (IT)

olvi3* 0.0 0.5 0.0 (1.0)

cmyn3* 0.5 0.0 0.5 (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 35.06 -17.42 3.36

LAB*LABa 35.06 -17.42 3.36

LAB*LABb 35.06 -17.42 3.36

LAB*LABc 35.06 -17.42 3.36

relative CIELAB lab*

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

relative Natural Colour (NC)

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

lab*lab 0.36 -0.247 0.034

relative Inform. Technology (IT)

olvi3* 0.0 0.25 0.0 (1.0)

cmyn3* 0.25 0.0 0.25 (0.0)

olvi4* 0.0 1.0 0.0 (1.0)

cmyn4* 0.0 0.0 0.0 (1.0)

standard and adapted CIELAB

LAB*LAB 18.02 0.0 0.46

LAB*LABa 18.02 0.0 0.46

LAB*LABb 18.02 0.0 0.46

LAB*LABc 18.02 0.0 0.46

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

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 73.75 -35.42 8.02

LAB*LABa 73.75 -35.42 8.02

LAB*LABb 73.75 -35.42 8.02

LAB*LABc 73.75 -35.42 8.02

relative CIELAB lab*

lab*lab 0.72 -0.494 0.067

lab*lab 0.72 -0.494 0.067

lab*lab 0.72 -0.494 0.067

lab*lab 0.72 -0.494 0.067

relative Natural Colour (NC)

lab*lab 0.72 -0.494 0.067

lab*lab 0.72 -0.494 0.067

lab*lab 0.72 -0.494 0.067

lab*lab 0.72 -0.494 0.067

relative Inform. Technology (IT)

olvi3* 0.25 0.75 0.25 (1.0)

cmyn3* 0.75 0.25 0.75 (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 65.23 -17.83 5.08

LAB*LABa 65.23 -17.83 5.08

LAB*LABb 65.23 -17.83 5.08

LAB*LABc 65.23 -17.83 5.08

relative CIELAB lab*

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

relative Natural Colour (NC)

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

lab*lab 0.61 -0.247 0.034

relative Inform. Technology (IT)

olvi3* 0.0 0.5 0.0 (1.0)

cmyn3* 0.5 0.0 0.5 (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 45.88 -17.46 3.78

LAB*LABa 45.88 -17.46 3.78

LAB*LABb 45.88 -17.46 3.78

LAB*LABc 45.88 -17.46 3.78

relative CIELAB lab*

lab*lab 0.47 -0.496 -0.056

lab*lab 0.47 -0.496 -0.056

lab*

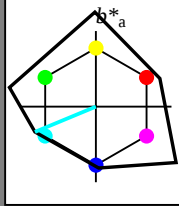
Eingabe: Farbmetrisches Reflexions-System NCS11

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

D65: Buntton G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^* 

%Umfang

 $u^*_{rel} = 149$

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 -0.01

LAB*LABa 95.41 0.0 0.0

LAB*LABb 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 74.31 0.02 0.0

LAB*LABa 74.31 0.02 0.0

LAB*LABb 74.31 0.02 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (0.0)

cmyn3* 0.5 0.5 0.5 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 53.21 0.04 0.0

LAB*LABa 53.21 0.04 0.0

LAB*LABb 53.21 0.04 0.0

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (1.0)

cmyn3* 0.75 0.75 0.75 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 32.11 0.08 0.01

LAB*LABa 32.11 0.08 0.01

LAB*LABb 32.11 0.08 0.01

relative CIELAB lab*

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (1.0)

cmyn3* 1.0 1.0 1.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 11.01 0.01 0.0

LAB*LABa 11.01 0.01 0.0

LAB*LABb 11.01 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

lab*lab 0.0 0.0 0.0

 $n^* = 1.0$

NCS11; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

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

relative Inform. Technology (IT)

olvi3* 0.5 1.0 1.0 (1.0)

cmyn3* 0.5 0.0 0.0 (0.0)

olvi4* 0.5 1.0 1.0 (1.0)

cmyn4* 0.5 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 77.43 -40.26 -16.71

LAB*LABa 77.43 -40.26 -16.71

LAB*LABb 77.43 -40.26 -16.71

relative CIELAB lab*

lab*lab 0.787 -0.461 -0.191

lab*lab 0.787 0.5 0.563

lab*lab 0.787 0.5 0.563

relative Natural Colour (NC)

lab*lab 0.787 -0.461 -0.191

lab*lab 0.787 0.5 0.563

lab*lab 0.787 0.5 0.563

relative Inform. Technology (IT)

olvi3* 0.25 0.75 0.75 (1.0)

cmyn3* 0.75 0.25 0.25 (0.0)

olvi4* 0.5 1.0 1.0 (1.0)

cmyn4* 0.5 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 56.33 -40.26 -16.71

LAB*LABa 56.33 -40.26 -16.71

LAB*LABb 56.33 -40.26 -16.71

relative CIELAB lab*

lab*lab 0.537 -0.418 -0.272

lab*lab 0.537 0.5 0.563

lab*lab 0.537 0.5 0.563

relative Natural Colour (NC)

lab*lab 0.537 -0.418 -0.272

lab*lab 0.537 0.5 0.563

lab*lab 0.537 0.5 0.563

relative Inform. Technology (IT)

olvi3* 0.0 0.5 0.5 (1.0)

cmyn3* 1.0 0.0 0.0 (0.0)

olvi4* 0.5 1.0 1.0 (1.0)

cmyn4* 0.5 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 35.23 -40.26 -16.71

LAB*LABa 35.23 -40.26 -16.71

LAB*LABb 35.23 -40.26 -16.71

relative CIELAB lab*

lab*lab 0.287 -0.461 -0.191

lab*lab 0.287 0.5 0.563

lab*lab 0.287 0.5 0.563

relative Natural Colour (NC)

lab*lab 0.287 -0.461 -0.191

lab*lab 0.287 0.5 0.563

lab*lab 0.287 0.5 0.563

 $n^* = 0.50$ $n^* = 0.25$ Schwarzheit n^* relative Buntheit c^*

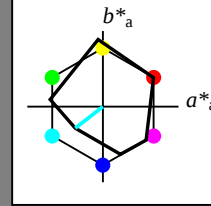
Ausgabe: Farbmetrisches Reflexions-System MRS18

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

D65: Buntton G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^* 

%Umfang

 $u^*_{rel} = 91$

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 -0.97 4.75

LAB*LABa 95.41 0.0 0.0

LAB*LABb 95.41 0.0 0.0

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

relative Natural Colour (NC)

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

lab*lab 1.0 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.75 0.75 0.75 (1.0)

cmyn3* 0.25 0.25 0.25 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 76.06 -0.6 3.44

LAB*LABa 76.06 -0.6 3.44

LAB*LABb 76.06 -0.6 3.44

relative CIELAB lab*

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

lab*lab 0.75 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (0.0)

cmyn3* 0.5 0.5 0.5 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 56.71 0.23 2.14

LAB*LABa 56.71 0.23 2.14

LAB*LABb 56.71 0.23 2.14

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

lab*lab 0.5 0.0 0.0

relative Inform. Technology (IT)

olvi3* 0.25 0.25 0.25 (1.0)

cmyn3* 0.75 0.75 0.75 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 37.36 0.0 0.0

LAB*LABa 37.36 0.0 0.0

LAB*LABb 37.36 0.0 0.0

relative CIELAB lab*

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

lab*lab 0.25 0.0 0.0

 $n^* = 0.00$ $n^* = 1.0$

5 stufige Reihen für konstanten CIELAB Buntton 218/360 = 0.605 (rechts)

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

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

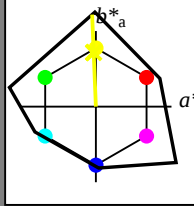
Eingabe: Farbmetrisches Reflexions-System NCS11

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

D65: Buntton J

LCH*Ma: 90 122 92

rgb*Ma: 0.97 1.0 0.0

Dreiecks-Helligkeit t^* 

%Umfang

 $u^*_{rel} = 149$

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 0.0 -0.01

LAB*Lab 95.41 0.0 -0.01

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 -

relative Natural Colour (NC)

lab*lab 1.0 0.0 0.0

lab*ch 0.75 0.0 0.0

lab*nch 0.25 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.75 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*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*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*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*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*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)

NCS11; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

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

relative Inform. Technology (IT)

olvi3* 0.976 1.0 0.5 (1.0)

cmyn3* 0.016 0.0 0.5 (0.0)

olvi4* 0.984 1.0 0.5 (1.0)

cmyn4* 0.016 0.0 0.5 (0.0)

standard and adapted CIELAB

LAB*LAB 92.52 -2.44 60.89

LAB*Lab 92.52 -2.44 60.89

LAB*TCa 75.0 60.94 92.32

relative CIELAB lab*

lab*lab 0.971 -0.019 0.499

lab*ch 0.75 0.5 0.256

lab*nch 0.0 0.5 0.256

relative Natural Colour (NC)

lab*lab 0.971 0.0 0.5

lab*ch 0.75 0.5 0.256

lab*nch 0.0 0.5 0.256

relative Natural Colour (NC)

lab*lab 0.971 0.0 0.5

lab*ch 0.75 0.5 0.256

lab*nch 0.0 0.5 0.256

relative Natural Colour (NC)

lab*lab 0.971 0.0 0.5

lab*ch 0.75 0.5 0.256

lab*nch 0.0 0.5 0.256

relative Natural Colour (NC)

lab*lab 0.971 0.0 0.5

lab*ch 0.75 0.5 0.256

lab*nch 0.0 0.5 0.256

relative Natural Colour (NC)

relative Inform. Technology (IT)

olvi3* 0.976 1.0 0.5 (1.0)

cmyn3* 0.016 0.0 0.5 (0.0)

olvi4* 0.984 1.0 0.5 (1.0)

cmyn4* 0.016 0.0 0.5 (0.0)

standard and adapted CIELAB

LAB*LAB 91.68 -3.68 91.34

LAB*Lab 91.68 -3.68 91.34

LAB*TCa 62.5 91.41 92.32

relative CIELAB lab*

lab*lab 0.956 -0.029 0.749

lab*ch 0.625 0.75 0.256

lab*nch 0.0 0.75 0.256

relative Natural Colour (NC)

lab*lab 0.956 0.0 0.75

lab*ch 0.625 0.75 0.256

lab*nch 0.0 0.75 0.256

relative Natural Colour (NC)

lab*lab 0.956 0.0 0.75

lab*ch 0.625 0.75 0.256

lab*nch 0.0 0.75 0.256

relative Natural Colour (NC)

lab*lab 0.956 0.0 0.75

lab*ch 0.625 0.75 0.256

lab*nch 0.0 0.75 0.256

relative Natural Colour (NC)

lab*lab 0.956 0.0 0.75

lab*ch 0.625 0.75 0.256

lab*nch 0.0 0.75 0.256

relative Natural Colour (NC)

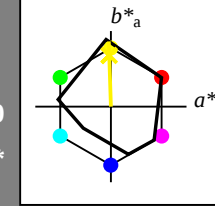
Ausgabe: Farbmetrisches Reflexions-System MRS18

für Buntton $h^* = lab^*h = 92/360 = 0.255$ lab^*ch und lab^*nch

D65: Buntton J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 0.0

Dreiecks-Helligkeit t^* 

%Umfang

 $u^*_{rel} = 91$

relative Inform. Technology (IT)

olvi3* 1.0 1.0 1.0 (1.0)

cmyn3* 0.0 0.0 0.0 (0.0)

olvi4* 1.0 1.0 1.0 (1.0)

cmyn4* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB

LAB*LAB 95.41 -0.97 4.75

LAB*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 -

relative Natural Colour (NC)

lab*lab 1.0 0.0 0.0

lab*ch 0.75 0.0 0.0

lab*nch 0.25 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.75 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*lab 0.75 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*lab 0.75 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*lab 0.75 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*lab 0.75 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*lab 0.75 0.0 0.0

lab*ch 0.25 0.0 0.0

lab*nch 0.25 0.0 0.0

relative Natural Colour (NC)

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*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 0.25 0.0 0.0

relative Natural Colour (NC)

lab*lab 0.75 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*lab 0.75 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*lab 0.75 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*lab 0.75 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*lab 0.75 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*lab 0.75 0.0 0.0

lab*ch 0.25 0.0 0.0

lab*nch 0.25 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 74.38 -1.26 2.491

LAB*Lab 74.38 -1.26 2.491

LAB*TCa 62.5 21.58 91.84

relative CIELAB lab*

lab*lab 0.728 -0.007 0.25

lab*ch 0.728 0.25 0.255

lab*nch 0.25 0.25 0.255

relative Natural Colour (NC)

lab*lab 0.728 0.0 0.25

lab*ch 0.625 0.25 0.25

lab*nch 0.25 0.25 0.25

relative Natural Colour (NC)

lab*lab 0.728 0.0 0.25

lab*ch 0.625 0.25 0.25

lab*nch 0.25 0.25 0.25

relative Natural Colour (NC)

lab*lab 0.728 0.0 0.25

lab*ch 0.625 0.25 0.25

lab*nch 0.25 0.25 0.25

relative Natural Colour (NC)

lab*lab 0.728 0.0 0.25

lab*ch 0.625 0.25 0.25

lab*nch 0.25 0.25 0.25

relative Natural Colour (NC)

lab*lab 0.728 0.0 0.25

lab*ch 0.625 0.25 0.25

lab*nch 0.25 0.25 0.25

relative Natural Colour (NC)

lab*lab 0.728 0.0 0.25

lab*ch 0.625 0.25 0.25

lab*nch 0.25 0.25 0.25

MRS18; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	h^*_{ab}
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

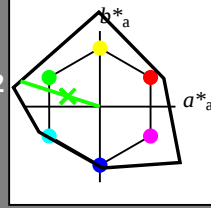
Eingabe: Farbmetrisches Reflexions-System NCS11

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

D65: Buntton G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

Dreiecks-Helligkeit t^* 

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.41	0.0	-0.01	
LAB*LABa	95.41	0.0	0.0	
LAB*LABb	99.99	0.01	0.0	

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*ch	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*ch	1.0	0.0	0.0
lab*nch	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)
LAB*LAB	74.31	0.02	0.0	
LAB*LABa	74.31	0.02	0.0	
LAB*LABb	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*ch	0.75	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

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 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)
LAB*LAB	53.21	0.04	0.0	
LAB*LABa	53.21	0.04	0.0	
LAB*LABb	50.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*ch	0.5	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

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 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)
LAB*LAB	32.11	0.07	0.01	
LAB*LABa	32.11	0.07	0.01	
LAB*LABb	25.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*ch	0.25	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

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 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)
LAB*LAB	11.01	0.07	0.01	
LAB*LABa	11.01	0.07	0.01	
LAB*LABb	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

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 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)
LAB*LAB	11.01	0.07	0.01	
LAB*LABa	11.01	0.07	0.01	
LAB*LABb	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

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 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)
LAB*LAB	11.01	0.07	0.01	
LAB*LABa	11.01	0.07	0.01	
LAB*LABb	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

NCS11; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularität

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

relative Inform. Technology (IT)

olvi3*	0.541	1.0	0.5	(1.0)
cmyn3*	0.459	0.0	0.5	(0.0)
olvi4*	0.541	1.0	0.5	(1.0)
cmyn4*	0.459	0.0	0.5	(0.0)
LAB*LAB	87.9	-26.2	8.39	
LAB*LABa	87.9	-26.2	8.39	
LAB*LABb	87.5	27.54	162.25	

relative CIELAB lab*

lab*lab	0.822	-0.475	0.152
lab*ch	0.75	0.5	0.451
lab*nch	0.0	0.5	0.451

relative Natural Colour (NC)

lab*lab	0.822	-0.475	0.152
lab*ch	0.75	0.5	0.451
lab*nch	0.0	0.5	0.451

relative Inform. Technology (IT)

olvi3*	0.291	0.75	0.25	(1.0)
cmyn3*	0.709	0.25	0.75	(0.0)
olvi4*	0.541	1.0	0.5	(1.0)
cmyn4*	0.459	0.0	0.5	(0.0)
LAB*LAB	59.31	-52.42	16.79	
LAB*LABa	59.31	-52.42	16.79	
LAB*LABb	50.00	55.09	162.25	

relative CIELAB lab*

lab*lab	0.73	-0.713	0.229
lab*ch	0.625	0.75	0.451
lab*nch	0.0	0.75	0.451

relative Natural Colour (NC)

lab*lab	0.73	-0.713	0.229
lab*ch	0.625	0.75	0.451
lab*nch	0.0	0.75	0.451

relative Inform. Technology (IT)

olvi3*	0.041	0.5	0.0	(1.0)
cmyn3*	0.959	0.5	0.0	(0.0)
olvi4*	0.541	1.0	0.5	(1.0)
cmyn4*	0.459	0.0	0.5	(0.0)
LAB*LAB	38.2	-52.46	16.78	
LAB*LABa	38.2	-52.46	16.78	
LAB*LABb	25.01	55.09	162.27	

relative CIELAB lab*

lab*lab	0.483	-0.713	0.228
lab*ch	0.375	0.75	0.451
lab*nch	0.0	0.75	0.451

relative Natural Colour (NC)

lab*lab	0.483	-0.713	0.228
lab*ch	0.375	0.75	0.451
lab*nch	0.0	0.75	0.451

relative Inform. Technology (IT)

olvi3*	0.021	0.322	-0.475	0.152
cmyn3*	0.979	0.75	0.0	(0.0)
olvi4*	0.75	1.0	0.0	(1.0)
cmyn4*	0.229	0.0	0.25	0.5
LAB*LAB	24.6	-26.23	8.38	
LAB*LABa	24.6	-26.23	8.38	
LAB*LABb	12.5	27.54	162.28	

relative CIELAB lab*

lab*lab	0.161	-0.237	0.076
lab*ch	0.125	0.25	0.451
lab*nch	0.0	0.25	0.451

relative Natural Colour (NC)

lab*lab	0.161	-0.237	0.076
lab*ch	0.125	0.25	0.451
lab*nch	0.0	0.25	0.451

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)
LAB*LAB	11.01	0.07	0.01	
LAB*LABa	11.01	0.07	0.01	
LAB*LABb	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0
lab*ch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

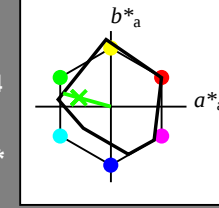
Ausgabe: Farbmetrisches Reflexions-System MRS18

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

D65: Buntton G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

Dreiecks-Helligkeit t^* 

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.41	-0.97	4.75	
LAB*LABa	95.41	-0.97	4.75	
LAB*LABb	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*lab	1.0	0.0	0.0
lab*ch	1.0	0.0	0.0
lab*nch	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)
LAB*LAB	76.06	-0.6	3.44	
LAB*LABa	76.06	-0.6	3.44	
LAB*LABb	75.00	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*lab	0.75	0.0	0.0
lab*ch	0.75	0.0	0.0
lab*nch	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)
LAB*LAB	56.71	0.23	2.14	
LAB*LABa	56.71	0.23	2.14	
LAB*LABb	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*lab	0.5	0.0	0.0
lab*ch	0.5	0.0	0.0
lab*nch	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

für 10 Bunttöne: *Startup (S) data dependent*