

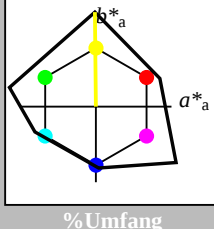
Eingabe: Farbmetrisches Reflexions-System NCS11

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

lab^*ch und lab^*nch

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

Dreiecks-Helligkeit t^*



$u^*_{rel} = 149$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*TCa 99.99 0.01 0.0

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

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

relative CIELAB lab*
lab*lab 0.75 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*nce 0.75 0.0 0.0

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

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

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

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
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lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

NCS11; adaptierte CIELAB-Daten

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

%Regularität

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 93.38 -0.62 62.5
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LAB*TCa 93.38 -0.62 62.5

relative CIELAB lab*
lab*lab 0.976 -0.004 0.5
lab*ch 0.75 0.5 0.252
lab*nch 0.0 0.5 0.252
relative Natural Colour (NC)
lab*trj 0.976 0.02 0.499
lab*nce 0.75 0.5 0.252

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.25 (1.0)
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cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.29 -0.62 62.52
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LAB*TCa 72.29 -0.62 62.52

relative CIELAB lab*
lab*lab 0.726 0.02 0.5
lab*ch 0.726 0.02 0.5
lab*nch 0.0 0.5 0.252
relative Natural Colour (NC)
lab*trj 0.726 0.02 0.5
lab*nce 0.726 0.02 0.5

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.00 0.00 0.00
LAB*Lab 50.00 0.00 0.00
LAB*TCa 50.00 0.00 0.00

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*nce 0.5 0.0 0.0

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olvi3* 0.0 0.0 0.0 (1.0)
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lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

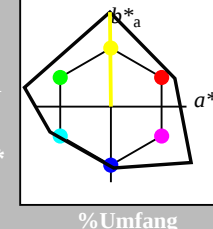
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lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*nce 0.75 0.0 0.0

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olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
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lab*nce 0.5 0.0 0.0

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lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

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lab*ch 0.0 0.0 0.0
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lab*trj 0.0 0.0 0.0
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NCS11; adaptierte CIELAB-Daten

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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
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%Regularität

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

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

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standard and adapted CIELAB
LAB*LAB 93.38 -0.62 62.5
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relative CIELAB lab*
lab*lab 0.976 -0.004 0.5
lab*ch 0.75 0.5 0.252
lab*nch 0.0 0.5 0.252
relative Natural Colour (NC)
lab*trj 0.976 0.02 0.499
lab*nce 0.75 0.5 0.252

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.75 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.29 -0.62 62.52
LAB*Lab 72.29 -0.62 62.52
LAB*TCa 72.29 -0.62 62.52

relative CIELAB lab*
lab*lab 0.726 0.02 0.5
lab*ch 0.726 0.02 0.5
lab*nch 0.0 0.5 0.252
relative Natural Colour (NC)
lab*trj 0.726 0.02 0.5
lab*nce 0.726 0.02 0.5

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 1.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.00 0.00 0.00
LAB*Lab 50.00 0.00 0.00
LAB*TCa 50.00 0.00 0.00

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*nce 0.5 0.0 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
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olvi3* 1.0 1.0 0.5 (1.0)
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olvi3* 0.75 0.75 0.25 (1.0)
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olvi3* 0.5 0.5 0.0 (1.0)
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standard and adapted CIELAB
LAB*LAB 50.00 0.00 0.00
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LAB*TCa 50.00 0.00 0.00

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lab*lab 0.5 0.0 0.0
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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

Eingabe: Farbmetrisches Reflexions-System NCS11

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

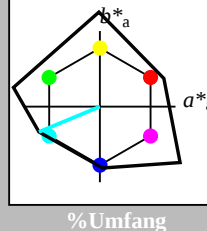
lab^*ch und lab^*nch

D65: Buntton G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



$u_{rel} = 149$

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (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)

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* 0.5 0.5 0.5 (1.0)

olvi4* 0.5 0.5 0.5 (0.0)

olvi5* 0.5 0.5 0.5 (0.0)

olvi6* 0.5 0.5 0.5 (0.0)

olvi7* 0.5 0.5 0.5 (0.0)

olvi8* 0.5 0.5 0.5 (0.0)

olvi9* 0.5 0.5 0.5 (0.0)

olvi10* 0.5 0.5 0.5 (0.0)

olvi11* 0.5 0.5 0.5 (0.0)

olvi12* 0.5 0.5 0.5 (0.0)

olvi13* 0.5 0.5 0.5 (0.0)

olvi14* 0.5 0.5 0.5 (0.0)

olvi15* 0.5 0.5 0.5 (0.0)

olvi16* 0.5 0.5 0.5 (0.0)

olvi17* 0.5 0.5 0.5 (0.0)

olvi18* 0.5 0.5 0.5 (0.0)

olvi19* 0.5 0.5 0.5 (0.0)

olvi20* 0.5 0.5 0.5 (0.0)

olvi21* 0.5 0.5 0.5 (0.0)

olvi22* 0.5 0.5 0.5 (0.0)

olvi23* 0.5 0.5 0.5 (0.0)

olvi24* 0.5 0.5 0.5 (0.0)

olvi25* 0.5 0.5 0.5 (0.0)

olvi26* 0.5 0.5 0.5 (0.0)

olvi27* 0.5 0.5 0.5 (0.0)

olvi28* 0.5 0.5 0.5 (0.0)

olvi29* 0.5 0.5 0.5 (0.0)

olvi30* 0.5 0.5 0.5 (0.0)

olvi31* 0.5 0.5 0.5 (0.0)

olvi32* 0.5 0.5 0.5 (0.0)

olvi33* 0.5 0.5 0.5 (0.0)

olvi34* 0.5 0.5 0.5 (0.0)

olvi35* 0.5 0.5 0.5 (0.0)

olvi36* 0.5 0.5 0.5 (0.0)

olvi37* 0.5 0.5 0.5 (0.0)

olvi38* 0.5 0.5 0.5 (0.0)

olvi39* 0.5 0.5 0.5 (0.0)

olvi40* 0.5 0.5 0.5 (0.0)

Ausgabe: Farbmetrisches Reflexions-System NCS11

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

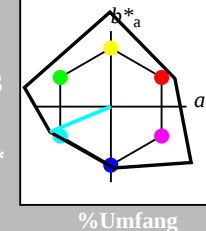
lab^*ch und lab^*nch

D65: Buntton G50B

LCH*Ma: 59 87 203

rgb*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



$u_{rel} = 149$

relative Inform. Technology (IT)

olvi3* 0.0 0.0 0.0 (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)

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* 0.5 0.5 0.5 (1.0)

olvi4* 0.5 0.5 0.5 (0.0)

olvi5* 0.5 0.5 0.5 (0.0)

olvi6* 0.5 0.5 0.5 (0.0)

olvi7* 0.5 0.5 0.5 (0.0)

olvi8* 0.5 0.5 0.5 (0.0)

olvi9* 0.5 0.5 0.5 (0.0)

olvi10* 0.5 0.5 0.5 (0.0)

olvi11* 0.5 0.5 0.5 (0.0)

olvi12* 0.5 0.5 0.5 (0.0)

olvi13* 0.5 0.5 0.5 (0.0)

olvi14* 0.5 0.5 0.5 (0.0)

olvi15* 0.5 0.5 0.5 (0.0)

olvi16* 0.5 0.5 0.5 (0.0)

olvi17* 0.5 0.5 0.5 (0.0)

olvi18* 0.5 0.5 0.5 (0.0)

olvi19* 0.5 0.5 0.5 (0.0)

olvi20* 0.5 0.5 0.5 (0.0)

olvi21* 0.5 0.5 0.5 (0.0)

olvi22* 0.5 0.5 0.5 (0.0)

olvi23* 0.5 0.5 0.5 (0.0)

olvi24* 0.5 0.5 0.5 (0.0)

olvi25* 0.5 0.5 0.5 (0.0)

olvi26* 0.5 0.5 0.5 (0.0)

olvi27* 0.5 0.5 0.5 (0.0)

olvi28* 0.5 0.5 0.5 (0.0)

olvi29* 0.5 0.5 0.5 (0.0)

olvi30* 0.5 0.5 0.5 (0.0)

olvi31* 0.5 0.5 0.5 (0.0)

olvi32* 0.5 0.5 0.5 (0.0)

olvi33* 0.5 0.5 0.5 (0.0)

olvi34* 0.5 0.5 0.5 (0.0)

olvi35* 0.5 0.5 0.5 (0.0)

olvi36* 0.5 0.5 0.5 (0.0)

olvi37* 0.5 0.5 0.5 (0.0)

olvi38* 0.5 0.5 0.5 (0.0)

olvi39* 0.5 0.5 0.5 (0.0)

olvi40* 0.5 0.5 0.5 (0.0)

relative Inform. Technology (IT)

olvi3* 0.5 0.5 0.5 (1.0)

olvi4* 0.5 0.5 0.5 (0.0)

olvi5* 0.5 0.5 0.5 (0.0)

olvi6* 0.5 0.5 0.5 (0.0)

olvi7* 0.5 0.5 0.5 (0.0)

olvi8* 0.5 0.5 0.5 (0.0)

olvi9* 0.5 0.5 0.5 (0.0)

olvi10* 0.5 0.5 0.5 (0.0)

olvi11* 0.5 0.5 0.5 (0.0)

olvi12* 0.5 0.5 0.5 (0.0)

olvi13* 0.5 0.5 0.5 (0.0)

olvi14* 0.5 0.5 0.5 (0.0)

olvi15* 0.5 0.5 0.5 (0.0)

olvi16* 0.5 0.5 0.5 (0.0)

olvi17* 0.5 0.5 0.5 (0.0)

olvi18* 0.5 0.5 0.5 (0.0)

olvi19* 0.5 0.5 0.5 (0.0)

Eingabe: Farbmetrisches Reflexions-System NCS11

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

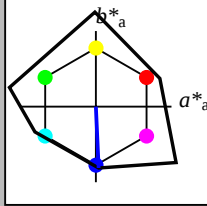
lab^*ch und lab^*nch

D65: Buntton B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
LAB*Lab 95.41 0.0 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*Lab 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*tr 1.0 0.0 0.0
lab*tc 1.0 0.0 0.0
lab*nc 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 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*tr 0.75 0.0 0.0
lab*tc 0.75 0.0 0.0
lab*nc 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 55.0 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*tr 0.5 0.0 0.0
lab*tc 0.5 0.0 0.0
lab*nc 0.0 0.0 0.0

standard and adapted CIELAB
LAB*Lab 32.11 0.07 0.01
LAB*Lab 32.11 0.0 0.0
LAB*Lab 35.0 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*tr 0.25 0.0 0.0
lab*tc 0.25 0.0 0.0
lab*nc 0.0 0.0 0.0

standard and adapted CIELAB
LAB*Lab 11.01 0.07 0.01
LAB*Lab 11.01 0.0 0.0
LAB*Lab 12.5 0.01 -

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*tr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*nc 0.0 0.0 0.0

standard and adapted CIELAB
LAB*Lab 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 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi4* 0.25 0.25 0.25 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
LAB*Lab 83.81 0.93 -20.28
LAB*Lab 83.81 0.91 -20.28
LAB*Lab 87.5 20.31 272.57

relative CIELAB lab*
lab*lab 0.863 0.011 -0.249
lab*ch 0.875 0.25 0.757
lab*nch 0.0 0.25 0.757
relative Natural Colour (NC)
lab*tr 0.863 0.003 -0.249
lab*tc 0.875 0.25 0.752
lab*nc 0.0 0.25 0.752

standard and adapted CIELAB
LAB*Lab 72.21 1.85 -40.58
LAB*Lab 72.21 1.82 -40.58
LAB*Lab 75.0 40.63 272.57

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*ch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*tc 0.5 0.5 0.5 (0.0)
lab*nc 0.0 0.5 0.5 (0.0)

standard and adapted CIELAB
LAB*Lab 51.11 1.87 -40.58
LAB*Lab 51.11 1.82 -40.58
LAB*Lab 55.0 40.64 272.57

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.25 (0.0)
lab*tc 0.25 0.25 0.25 (0.0)
lab*nc 0.0 0.25 0.25 (0.0)

standard and adapted CIELAB
LAB*Lab 30.01 1.82 -40.58
LAB*Lab 30.01 1.82 -40.58
LAB*Lab 35.0 40.63 272.57

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tc 0.0 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB
LAB*Lab 11.01 0.07 0.01
LAB*Lab 11.01 0.0 0.0
LAB*Lab 12.5 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tc 0.0 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB
LAB*Lab 0.01 0.01 -

NCS11; adaptierte CIELAB-Daten

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

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
LAB*Lab 60.61 2.77 -60.88
LAB*Lab 60.61 2.74 -60.88
LAB*Lab 62.5 60.95 272.57

relative CIELAB lab*
lab*lab 0.388 0.034 -0.748
lab*ch 0.625 0.75 0.757
lab*nch 0.0 0.75 0.757
relative Natural Colour (NC)
lab*tr 0.388 0.009 -0.749
lab*tc 0.625 0.75 0.752
lab*nc 0.0 0.75 0.752

standard and adapted CIELAB
LAB*Lab 49.02 3.65 -81.18
LAB*Lab 49.02 3.62 -81.18
LAB*Lab 50.0 81.27 272.57

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.25 (0.0)
lab*tc 0.25 0.25 0.25 (0.0)
lab*nc 0.0 0.25 0.25 (0.0)

standard and adapted CIELAB
LAB*Lab 30.01 1.82 -40.58
LAB*Lab 30.01 1.82 -40.58
LAB*Lab 35.0 40.63 272.57

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tc 0.0 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB
LAB*Lab 11.01 0.07 0.01
LAB*Lab 11.01 0.0 0.0
LAB*Lab 12.5 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tc 0.0 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB
LAB*Lab 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tc 0.0 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

Ausgabe: Farbmetrisches Reflexions-System NCS11

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

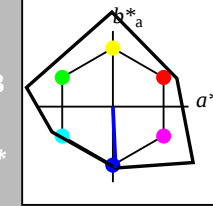
lab^*ch und lab^*nch

D65: Buntton B

LCH*Ma: 49 81 273

rgb*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
LAB*Lab 95.41 0.0 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*Lab 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*tr 1.0 0.0 0.0
lab*tc 1.0 0.0 0.0
lab*nc 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 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*tr 0.75 0.0 0.0
lab*tc 0.75 0.0 0.0
lab*nc 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 55.0 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*tr 0.5 0.0 0.0
lab*tc 0.5 0.0 0.0
lab*nc 0.0 0.0 0.0

standard and adapted CIELAB
LAB*Lab 32.11 0.07 0.01
LAB*Lab 32.11 0.0 0.0
LAB*Lab 35.0 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*tr 0.25 0.0 0.0
lab*tc 0.25 0.0 0.0
lab*nc 0.0 0.0 0.0

standard and adapted CIELAB
LAB*Lab 11.01 0.07 0.01
LAB*Lab 11.01 0.0 0.0
LAB*Lab 12.5 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tc 0.0 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB
LAB*Lab 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tc 0.0 0.0 0.0 (0.0)
lab*nc 0.0 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 0.5 0.5 (1.0)
olvi4* 0.25 0.25 0.25 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
LAB*Lab 83.81 0.93 -20.28
LAB*Lab 83.81 0.91 -20.28
LAB*Lab 87.5 20.31 272.57

relative CIELAB lab*
lab*lab 0.863 0.011 -0.249
lab*ch 0.875 0.25 0.757
lab*nch 0.0 0.25 0.757
relative Natural Colour (NC)
lab*tr 0.863 0.003 -0.249
lab*tc 0.875 0.25 0.752
lab*nc 0.0 0.25 0.752

standard and adapted CIELAB
LAB*Lab 72.21 1.85 -40.58
LAB*Lab 72.21 1.82 -40.58
LAB*Lab 75.0 40.63 272.57

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*ch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*tc 0.5 0.5 0.5 (0.0)
lab*nc 0.0 0.5 0.5 (0.0)

standard and adapted CIELAB
LAB*Lab 51.11 1.87 -40.58
LAB*Lab 51.11 1.82 -40.58
LAB*Lab 55.0 40.64 272.57

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.25 0.25 (0.0)
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.25 (0.0)
lab*tc 0.25 0.25 0.25 (0.0)
lab*nc 0.0 0.25 0.25 (0.0)

standard and adapted CIELAB
LAB*Lab 30.01 1.82 -40.58
LAB*Lab 30.01 1.82 -40.58
LAB*Lab 35.0 40.63 272.57

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tc 0.0 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB
LAB*Lab 11.01 0.07 0.01
LAB*Lab 11.01 0.0 0.0
LAB*Lab 12.5 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tc 0.0 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

TG590-7, 5 stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.757 (links)

5 stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.757 (rechts)

BAM-Prüfvorlage TG59; Farbmetrik-Systeme NCS11a & NCS11aput: $olv^* setrgbcolor$

D65; 2 Koordinaten-Daten von 5stufigen Farbreihen für 10 Bunttonen: $olv^* setrgbcolor / w^* setgray$

Eingabe: Farbmetrisches Reflexions-System NCS11

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

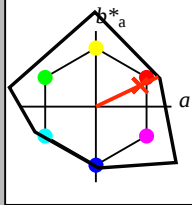
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

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

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

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

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

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

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

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (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*TCHa 0.01 0.01 0.0

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

$n^* = 1.0$

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

%Regelartit

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

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

relative Inform. Technology (IT)
olvi3* 1.0 0.512 0.5 (1.0)
cmyn3* 0.0 0.244 0.25 (0.0)
olvi4* 1.0 0.512 0.5 (1.0)
cmyn4* 0.0 0.244 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 83.61 20.65 9.84
LAB*LABa 83.61 20.64 9.84
LAB*TCHa 87.5 25.86 25.49

relative CIELAB lab*
lab*lab 0.86 0.226 0.108
lab*ch 0.875 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.86 0.25 0.0
lab*trc 0.875 0.25 0.0
lab*ncc 0.0 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.512 0.5 (1.0)
cmyn3* 0.25 0.244 0.25 (0.0)
olvi4* 1.0 0.512 0.5 (1.0)
cmyn4* 0.0 0.244 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 62.51 20.68 9.85
LAB*LABa 62.51 20.64 9.84
LAB*TCHa 62.5 22.87 25.49

relative CIELAB lab*
lab*lab 0.61 0.226 0.108
lab*ch 0.625 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.61 0.25 0.0
lab*trc 0.625 0.25 0.0
lab*ncc 0.0 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.512 0.5 (0.0)
cmyn3* 0.5 0.244 0.25 (0.0)
olvi4* 1.0 0.512 0.5 (0.0)
cmyn4* 0.0 0.244 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 48.21 20.68 9.85
LAB*LABa 48.21 20.64 9.84
LAB*TCHa 48.2 25.86 25.49

relative CIELAB lab*
lab*lab 0.38 0.226 0.108
lab*ch 0.375 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.38 0.25 0.0
lab*trc 0.375 0.25 0.0
lab*ncc 0.0 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.512 0.5 (0.0)
cmyn3* 0.75 0.244 0.25 (0.0)
olvi4* 1.0 0.512 0.5 (0.0)
cmyn4* 0.0 0.244 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 20.68 9.85
LAB*LABa 32.11 20.64 9.84
LAB*TCHa 32.1 25.86 25.49

relative CIELAB lab*
lab*lab 0.11 0.226 0.107
lab*ch 0.125 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.11 0.25 0.0
lab*trc 0.125 0.25 0.0
lab*ncc 0.0 0.25 0.0

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 1.0 0.268 0.25 (1.0)
cmyn3* 0.0 0.732 0.75 (0.0)
olvi4* 1.0 0.268 0.25 (1.0)
cmyn4* 0.0 0.732 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 60.01 61.96 29.53
LAB*LABa 60.01 61.92 29.52
LAB*TCHa 62.5 68.6 25.49

relative CIELAB lab*
lab*lab 0.581 0.677 0.323
lab*ch 0.625 0.75 0.071
lab*nch 0.0 0.75 0.071
relative Natural Colour (NC)
lab*trj 0.581 0.75 0.0
lab*trc 0.625 0.75 0.0
lab*ncc 0.0 0.75 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.018 0.0 (1.0)
cmyn3* 0.25 0.738 0.75 (0.0)
olvi4* 1.0 0.512 0.5 (0.0)
cmyn4* 0.0 0.488 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 50.71 41.33 19.68
LAB*LABa 50.71 41.29 19.68
LAB*TCHa 50.0 45.74 25.49

relative CIELAB lab*
lab*lab 0.41 0.451 0.215
lab*ch 0.5 0.5 0.071
lab*nch 0.0 0.5 0.071
relative Natural Colour (NC)
lab*trj 0.41 0.5 0.0
lab*trc 0.5 0.5 0.0
lab*ncc 0.0 0.5 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.018 0.0 (0.0)
cmyn3* 0.5 0.738 0.75 (0.0)
olvi4* 1.0 0.512 0.5 (0.0)
cmyn4* 0.0 0.488 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 38.91 61.99 29.53
LAB*LABa 38.91 61.93 29.51
LAB*TCHa 37.51 68.6 25.49

relative CIELAB lab*
lab*lab 0.331 0.677 0.323
lab*ch 0.375 0.75 0.071
lab*nch 0.0 0.75 0.071
relative Natural Colour (NC)
lab*trj 0.331 0.75 0.0
lab*trc 0.375 0.75 0.0
lab*ncc 0.0 0.75 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.018 0.0 (0.0)
cmyn3* 0.25 0.738 0.75 (0.0)
olvi4* 1.0 0.512 0.5 (0.0)
cmyn4* 0.0 0.488 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 29.61 41.33 19.68
LAB*LABa 29.61 41.29 19.67
LAB*TCHa 25.01 45.74 25.49

$n^* = 0.25$

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 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 48.21 82.61 39.36
LAB*LABa 48.21 82.57 39.35
LAB*TCHa 50.0 91.46 25.48

relative CIELAB lab*
lab*lab 0.441 0.903 0.43
lab*ch 0.5 1.0 0.071
lab*nch 0.0 1.0 0.071
relative Natural Colour (NC)
lab*trj 0.441 1.0 0.0
lab*trc 0.5 1.0 0.0
lab*ncc 0.0 1.0 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 (0.0)
cmyn4* 0.0 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 29.61 82.61 39.36
LAB*LABa 29.61 82.57 39.35
LAB*TCHa 25.01 91.46 25.48

relative CIELAB lab*
lab*lab 0.25 0.25 0.0
lab*ch 0.25 0.25 0.0
lab*nch 0.0 0.25 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.0
lab*trc 0.25 0.25 0.0
lab*ncc 0.0 0.25 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*TCHa 0.01 0.01 0.0

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

$n^* = 0.00$

Ausgabe: Farbmetrisches Reflexions-System NCS11

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

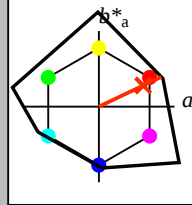
lab^*ch und lab^*nch

D65: Buntton R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 149$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

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

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

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

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

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

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

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (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*TCHa 0.01 0.01 0.0

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

$n^* = 1.0$

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

%Regelartit

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

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

relative Inform. Technology (IT)
olvi3* 1.0 0.512 0.5 (1.0)
cmyn3* 0.0 0.244 0.25 (0.0)
olvi4* 1.0 0.512 0.5 (1.0)
cmyn4* 0.0 0.244 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 83.61 20.65 9.84
LAB*LABa 83.61 20.64 9.84
LAB*TCHa 87.5 25.86 25.49

relative CIELAB lab*
lab*lab 0.86 0.226 0.108
lab*ch 0.875 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.86 0.25 0.0
lab*trc 0.875 0.25 0.0
lab*ncc 0.0 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.512 0.5 (1.0)
cmyn3* 0.25 0.244 0.25 (0.0)
olvi4* 1.0 0.512 0.5 (1.0)
cmyn4* 0.0 0.244 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 62.51 20.68 9.85
LAB*LABa 62.51 20.64 9.84
LAB*TCHa 62.5 22.87 25.49

relative CIELAB lab*
lab*lab 0.61 0.226 0.108
lab*ch 0.625 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.61 0.25 0.0
lab*trc 0.625 0.25 0.0
lab*ncc 0.0 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.512 0.5 (0.0)
cmyn3* 0.5 0.244 0.25 (0.0)
olvi4* 1.0 0.512 0.5 (0.0)
cmyn4* 0.0 0.244 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 48.21 20.68 9.85
LAB*LABa 48.21 20.64 9.84
LAB*TCHa 48.2 25.86 25.49

relative CIELAB lab*
lab*lab 0.38 0.226 0.108
lab*ch 0.375 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.38 0.25 0.0
lab*trc 0.375 0.25 0.0
lab*ncc 0.0 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.512

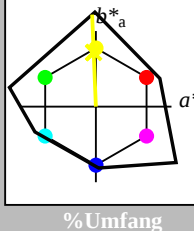
Eingabe: Farbmetrisches Reflexions-System NCS11

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^*



relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

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

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (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 53.21 0.04 0.0
LAB*LABa 53.21 0.04 0.0
LAB*TCHa 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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 0.01 0.0
LAB*LABa 32.11 0.01 0.0
LAB*TCHa 25.00 0.01 0.0

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

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

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

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*TCHa 0.01 0.01 0.0

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

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* 0.984 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 92.92 -2.46 60.89
LAB*LABa 92.92 -2.46 60.89
LAB*TCHa 75.00 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*trj 0.971 0.0 0.5
lab*trc 0.75 0.5 0.256
lab*ncc 0.0 0.5 0.256

relative Inform. Technology (IT)
olvi3* 0.734 0.75 0.25 (1.0)
cmyn3* 0.266 0.25 0.75 (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 71.83 -2.44 60.9
LAB*LABa 71.83 -2.44 60.9
LAB*TCHa 50.00 60.94 92.32

relative CIELAB lab*
lab*lab 0.726 0.75 0.0 (1.0)
lab*ch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.726 0.75 0.256
lab*trc 0.625 0.75 0.256
lab*ncc 0.0 0.75 0.256

relative Inform. Technology (IT)
olvi3* 0.596 1.0 0.0 (1.0)
cmyn3* 0.404 0.0 1.0 (0.0)
olvi4* 0.976 1.0 0.25 (1.0)
cmyn4* 0.024 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 91.68 -3.68 91.34
LAB*LABa 91.68 -3.68 91.34
LAB*TCHa 62.5 91.41 92.32

relative CIELAB lab*
lab*lab 0.596 -0.029 0.749
lab*ch 0.5 0.5 0.256
lab*nch 0.0 0.5 0.256
relative Natural Colour (NC)
lab*trj 0.596 0.0 0.5
lab*trc 0.5 0.5 0.256
lab*ncc 0.0 0.5 0.256

relative Inform. Technology (IT)
olvi3* 0.484 0.5 0.0 (1.0)
cmyn3* 0.516 0.5 1.0 (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 50.72 -2.42 60.88
LAB*LABa 50.72 -2.42 60.88
LAB*TCHa 25.01 60.93 92.33

relative CIELAB lab*
lab*lab 0.471 -0.019 0.499
lab*ch 0.25 0.5 0.256
lab*nch 0.0 0.5 0.256
relative Natural Colour (NC)
lab*trj 0.471 0.0 0.5
lab*trc 0.25 0.5 0.256
lab*ncc 0.0 0.5 0.256

relative Inform. Technology (IT)
olvi3* 0.242 0.25 0.0 (1.0)
cmyn3* 0.758 0.75 1.0 (0.0)
olvi4* 0.982 1.0 0.5 (1.0)
cmyn4* 0.008 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 30.86 -1.23 30.43
LAB*LABa 30.86 -1.23 30.43
LAB*TCHa 12.5 30.46 92.33

relative CIELAB lab*
lab*lab 0.235 -0.009 0.25
lab*ch 0.125 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.235 0.0 0.25
lab*trc 0.125 0.25 0.256
lab*ncc 0.0 0.25 0.256

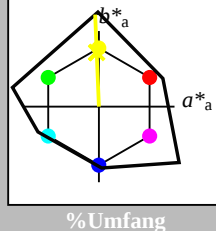
Ausgabe: Farbmetrisches Reflexions-System NCS11

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^*



relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

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

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (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 53.21 0.04 0.0
LAB*LABa 53.21 0.04 0.0
LAB*TCHa 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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 0.01 0.0
LAB*LABa 32.11 0.01 0.0
LAB*TCHa 25.00 0.01 0.0

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

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

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

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*TCHa 0.01 0.01 0.0

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

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* 0.984 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 92.92 -2.44 60.89
LAB*LABa 92.92 -2.44 60.89
LAB*TCHa 75.00 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*trj 0.971 0.0 0.5
lab*trc 0.75 0.5 0.256
lab*ncc 0.0 0.5 0.256

relative Inform. Technology (IT)
olvi3* 0.734 0.75 0.25 (1.0)
cmyn3* 0.266 0.25 0.75 (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 71.83 -2.44 60.9
LAB*LABa 71.83 -2.44 60.9
LAB*TCHa 50.00 60.94 92.32

relative CIELAB lab*
lab*lab 0.726 0.75 0.0 (1.0)
lab*ch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.726 0.75 0.256
lab*trc 0.625 0.75 0.256
lab*ncc 0.0 0.75 0.256

relative Inform. Technology (IT)
olvi3* 0.596 1.0 0.0 (1.0)
cmyn3* 0.404 0.0 1.0 (0.0)
olvi4* 0.976 1.0 0.25 (1.0)
cmyn4* 0.024 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 91.68 -3.68 91.34
LAB*LABa 91.68 -3.68 91.34
LAB*TCHa 62.5 91.41 92.32

relative CIELAB lab*
lab*lab 0.596 -0.029 0.749
lab*ch 0.5 0.5 0.256
lab*nch 0.0 0.5 0.256
relative Natural Colour (NC)
lab*trj 0.596 0.0 0.5
lab*trc 0.5 0.5 0.256
lab*ncc 0.0 0.5 0.256

relative Inform. Technology (IT)
olvi3* 0.484 0.5 0.0 (1.0)
cmyn3* 0.516 0.5 1.0 (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 50.72 -2.42 60.88
LAB*LABa 50.72 -2.42 60.88
LAB*TCHa 25.01 60.93 92.33

relative CIELAB lab*
lab*lab 0.471 -0.019 0.499
lab*ch 0.25 0.5 0.256
lab*nch 0.0 0.5 0.256
relative Natural Colour (NC)
lab*trj 0.471 0.0 0.5
lab*trc 0.25 0.5 0.256
lab*ncc 0.0 0.5 0.256

relative Inform. Technology (IT)
olvi3* 0.242 0.25 0.0 (1.0)
cmyn3* 0.758 0.75 1.0 (0.0)
olvi4* 0.982 1.0 0.5 (1.0)
cmyn4* 0.008 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 30.86 -1.23 30.43
LAB*LABa 30.86 -1.23 30.43
LAB*TCHa 12.5 30.46 92.33

relative CIELAB lab*
lab*lab 0.235 -0.009 0.25
lab*ch 0.125 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.235 0.0 0.25
lab*trc 0.125 0.25 0.256
lab*ncc 0.0 0.25 0.256

Eingabe: Farbmetrisches Reflexions-System NCS11

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

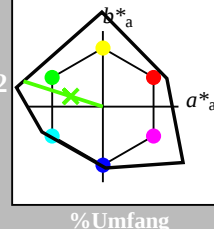
lab^*ch und lab^*nch

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)
olvi4* 0.0 0.0 0.0 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 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 Inform. Technology (IT)
olvi3* 0.771 1.0 0.75 (1.0)
olvi4* 0.229 0.0 0.25 (0.0)
olvi5* 0.771 1.0 0.75 (1.0)
olvi6* 0.229 0.0 0.25 (0.0)
olvi7* 0.229 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 87.9 -26.2 8.39
LAB*LABa 87.9 -26.2 8.39
LAB*LABb 87.9 -26.2 8.39

relative Inform. Technology (IT)
olvi3* 0.771 1.0 0.75 (1.0)
olvi4* 0.229 0.0 0.25 (0.0)
olvi5* 0.771 1.0 0.75 (1.0)
olvi6* 0.229 0.0 0.25 (0.0)
olvi7* 0.229 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 87.9 -26.2 8.39
LAB*LABa 87.9 -26.2 8.39
LAB*LABb 87.9 -26.2 8.39

relative Inform. Technology (IT)
olvi3* 0.771 1.0 0.75 (1.0)
olvi4* 0.229 0.0 0.25 (0.0)
olvi5* 0.771 1.0 0.75 (1.0)
olvi6* 0.229 0.0 0.25 (0.0)
olvi7* 0.229 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 87.9 -26.2 8.39
LAB*LABa 87.9 -26.2 8.39
LAB*LABb 87.9 -26.2 8.39

relative Inform. Technology (IT)
olvi3* 0.771 1.0 0.75 (1.0)
olvi4* 0.229 0.0 0.25 (0.0)
olvi5* 0.771 1.0 0.75 (1.0)
olvi6* 0.229 0.0 0.25 (0.0)
olvi7* 0.229 0.0 0.25 (0.0)
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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

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

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

Ausgabe: Farbmetrisches Reflexions-System NCS11

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

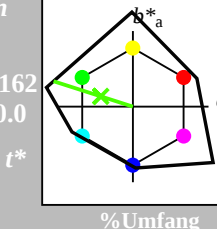
lab^*ch und lab^*nch

D65: Buntton G

LCH*Ma: 65 110 162

rgb*Ma: 0.08 1.0 0.0

Dreiecks-Helligkeit t^*



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olvi7* 0.0 0.0 0.0 (0.0)
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LAB*LAB 95.41 0.0 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0

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TG59-7, 5 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

5 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (rechts)

BAM-Prüfvorlage TG59; Farbmetrik-Systeme NCS11a & NCS11b

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

Input: $olv^*setrgbcolor$

Output: $olv^*setrgbcolor / w^*setgray$

