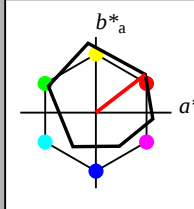


Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18 für Buntton $h^* = lab^*h = 38/360 = 0.105$ lab^*ich und lab^*nch

A: Buntton O
LCH*Ma: 48 83 38
olv*Ma: 1.0 0.0 0.0
Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 93$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -0.98 47.5
LAB*LAB 95.41 0.0 0.0
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 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*ice 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 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*ice 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.26 0.13 0.83
LAB*LAB 37.26 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 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*ice 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

ORS18; adaptierte CIELAB-Daten					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

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

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

relative Inform. Technology (IT)
olv3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.67 32.15 28.41
LAB*LAB 71.67 32.15 28.41
LAB*LAB 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.693 0.396 0.306
lab*ich 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*ice 0.75 0.5 0.105
lab*nce 0.0 0.5 0.191

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 59.8 48.73 40.24
LAB*LAB 59.8 48.73 40.24
LAB*LAB 62.5 61.96 37.69

relative CIELAB lab*
lab*lab 0.54 0.593 0.458
lab*ich 0.625 0.75 0.105
lab*nch 0.0 0.75 0.105
relative Natural Colour (NC)
lab*trj 0.54 0.716 0.224
lab*ice 0.625 0.75 0.105
lab*nce 0.0 0.75 0.191

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.25 1.0 1.0 (0.0)
olv4* 1.0 0.25 0.25 (0.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 47.94 65.37 30.51
LAB*LAB 47.94 65.37 30.51
LAB*LAB 50.0 82.61 37.69

relative CIELAB lab*
lab*lab 0.387 0.791 0.611
lab*ich 0.5 1.0 0.105
lab*nch 0.0 1.0 0.105
relative Natural Colour (NC)
lab*trj 0.387 0.954 0.299
lab*ice 0.5 1.0 0.105
lab*nce 0.0 1.0 0.191

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 1.0 0.25 0.25 (0.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 32.53 32.53 27.11
LAB*LAB 32.53 32.53 27.11
LAB*LAB 30.0 41.31 37.69

relative CIELAB lab*
lab*lab 0.443 0.477 0.15
lab*ich 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*ice 0.5 0.5 0.105
lab*nce 0.0 0.5 0.191

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olv4* 1.0 0.25 0.25 (0.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 49.1 38.46 32.28
LAB*LAB 49.1 38.46 32.28
LAB*LAB 50.0 50.21 40.0

relative CIELAB lab*
lab*lab 0.397 0.574 0.482
lab*ich 0.5 0.5 0.111
lab*nch 0.0 0.5 0.111
relative Natural Colour (NC)
lab*trj 0.397 0.574 0.482
lab*ice 0.5 0.5 0.111
lab*nce 0.0 0.5 0.211

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.26 38.45 32.27
LAB*LAB 25.26 38.45 32.27
LAB*LAB 25.01 50.2 40.0

relative CIELAB lab*
lab*lab 0.397 0.574 0.482
lab*ich 0.25 0.5 0.111
lab*nch 0.0 0.25 0.111
relative Natural Colour (NC)
lab*trj 0.397 0.574 0.482
lab*ice 0.25 0.5 0.111
lab*nce 0.0 0.25 0.211

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.25$

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
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 CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
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 CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.00$

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 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*ice 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LAB 47.72 0.0 0.0
LAB*LAB 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 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*ice 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.53 32.53 27.11
LAB*LAB 32.53 32.53 27.11
LAB*LAB 30.0 41.31 37.69

relative CIELAB lab*
lab*lab 0.443 0.477 0.15
lab*ich 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*ice 0.5 0.5 0.105
lab*nce 0.0 0.5 0.191

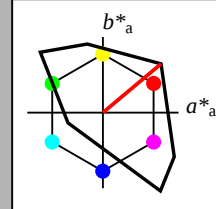
relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00 für Buntton $h^* = lab^*h = 40/360 = 0.111$ lab^*tch und lab^*nch

A: Buntton O
LCH*Ma: 51 100 40
olv*Ma: 1.0 0.0 0.0
Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 158$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 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*ice 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LAB 47.72 0.0 0.0
LAB*LAB 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 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*ice 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 32.53 32.53 27.11
LAB*LAB 32.53 32.53 27.11
LAB*LAB 30.0 41.31 37.69

relative CIELAB lab*
lab*lab 0.443 0.477 0.15
lab*ich 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*ice 0.5 0.5 0.105
lab*nce 0.0 0.5 0.191

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
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 CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

TLS00; adaptierte CIELAB-Daten					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.5 (1.0)
cmyn3* 0.25 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.95 38.45 32.27
LAB*LAB 72.95 38.45 32.27
LAB*LAB 75.00 50.2 40.0

relative CIELAB lab*
lab*lab 0.765 0.383 0.321
lab*ich 0.75 0.5 0.111
lab*nch 0.0 0.5 0.111
relative Natural Colour (NC)
lab*trj 0.765 0.471 0.167
lab*ice 0.75 0.5 0.111
lab*nce 0.0 0.5 0.211

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 60.33 19.23 16.14
LAB*LAB 60.33 19.23 16.14
LAB*LAB 62.5 25.1 40.0

relative CIELAB lab*
lab*lab 0.632 0.192 0.161
lab*ich 0.625 0.25 0.111
lab*nch 0.25 0.25 0.111
relative Natural Colour (NC)
lab*trj 0.632 0.236 0.084
lab*ice 0.625 0.25 0.111
lab*nce 0.25 0.25 0.211

relative Inform. Technology (IT)
olv3* 0.

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

für Buntton $h^* = lab^*h = 96/360 = 0.268$

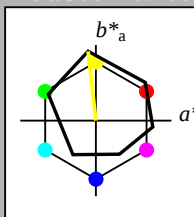
lab^*ich und lab^*nch

A: Buntton Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)

olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -0.98 47.5
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*ich 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)

olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0
lab*ich 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)

olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 55.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.5 0.0 0.0
lab*ich 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)

olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 0.13 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 35.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.25 0.0 0.0
lab*ich 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)

olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 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*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 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*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 1.0 1.0 0.75 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 0.75 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 94.14 -3.52 27.6
LAB*LAB 94.14 -2.56 22.93
LAB*LAB 97.5 23.07 96.38

relative CIELAB lab*

lab*lab 0.984 -0.027 0.248
lab*ich 0.875 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*trj 0.984 -0.024 0.249
lab*nce 0.875 0.25 0.268

relative Inform. Technology (IT)

olv3* 0.75 0.75 0.5 (1.0)
cmyn3* 0.25 0.25 0.5 (0.0)
olv4* 1.0 1.0 0.75 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 74.8 -3.15 26.3
LAB*LAB 74.8 -2.56 22.94
LAB*LAB 75.0 23.07 96.38

relative CIELAB lab*

lab*lab 0.74 -0.027 0.248
lab*ich 0.625 0.25 0.268
lab*nch 0.25 0.25 0.268
relative Natural Colour (NC)
lab*trj 0.74 -0.024 0.249
lab*nce 0.625 0.25 0.268

relative Inform. Technology (IT)

olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 0.75 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 55.45 -2.78 5.50
LAB*LAB 55.45 -2.56 22.94
LAB*LAB 55.0 23.07 96.38

relative CIELAB lab*

lab*lab 0.54 -0.027 0.248
lab*ich 0.375 0.25 0.268
lab*nch 0.25 0.25 0.268
relative Natural Colour (NC)
lab*trj 0.54 -0.024 0.249
lab*nce 0.375 0.25 0.268

relative Inform. Technology (IT)

olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.5 (0.0)
olv4* 1.0 1.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 36.1 -2.56 22.93
LAB*LAB 36.1 -2.56 22.93
LAB*LAB 35.0 23.07 96.38

relative CIELAB lab*

lab*lab 0.234 -0.027 0.248
lab*ich 0.125 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*trj 0.234 -0.024 0.249
lab*nce 0.125 0.25 0.268

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 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*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 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*nce 1.0 0.0 0.0

ORS18; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

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

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

relative Inform. Technology (IT)

olv3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 92.88 -6.06 50.46
LAB*LAB 92.88 -5.12 45.87
LAB*LAB 94.14 -3.52 27.6

relative CIELAB lab*

lab*lab 0.967 -0.055 0.497
lab*ich 0.75 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*trj 0.967 -0.048 0.497
lab*nce 0.75 0.5 0.268

relative Inform. Technology (IT)

olv3* 0.75 0.75 0.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olv4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 91.62 -8.61 73.31
LAB*LAB 91.62 -6.99 68.8
LAB*LAB 92.88 -5.12 45.87

relative CIELAB lab*

lab*lab 0.951 -0.073 0.746
lab*ich 0.625 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*trj 0.951 -0.073 0.746
lab*nce 0.625 0.75 0.268

relative Inform. Technology (IT)

olv3* 0.5 0.5 0.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olv4* 1.0 1.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 72.28 -8.61 73.31
LAB*LAB 72.28 -6.99 68.8
LAB*LAB 73.51 -5.12 45.87

relative CIELAB lab*

lab*lab 0.701 -0.082 0.745
lab*ich 0.375 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*trj 0.701 -0.073 0.746
lab*nce 0.375 0.75 0.268

relative Inform. Technology (IT)

olv3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.75 0.75 0.0 (0.0)
olv4* 1.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 54.19 -5.12 45.87
LAB*LAB 54.19 -3.52 27.6
LAB*LAB 55.0 23.07 96.38

relative CIELAB lab*

lab*lab 0.467 -0.055 0.497
lab*ich 0.25 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*trj 0.467 -0.048 0.497
lab*nce 0.25 0.5 0.268

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 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*nce 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

Schwarzheit n^*

Schwarzheit n^*

Schwarzheit n^*

Schwarzheit n^*

Schwarzheit n^*

Schwarzheit n^*

Schwarzheit n^*

relative Buntheit c^*

relative Buntheit c^*

relative Buntheit c^*

relative Buntheit c^*

relative Buntheit c^*

relative Buntheit c^*

relative Buntheit c^*

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton $h^* = lab^*h = 103/360 = 0.286$

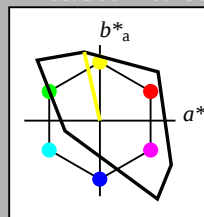
lab^*tch und lab^*nch

A: Buntton Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)

olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 0.0
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*ich 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)

olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.75 0.0 0.0
lab*ich 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)

olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 0.0 0.0
LAB*LAB 56.71 0.0 0.0
LAB*LAB 55.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.5 0.0 0.0
lab*ich 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)

olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 0.13 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 35.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.25 0.0 0.0
lab*ich 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)

olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 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*nce 1.0 0.0 0.0

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

relative CIELAB lab*

lab*lab 0.0 0.0 0.0
lab*ich 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*nce 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

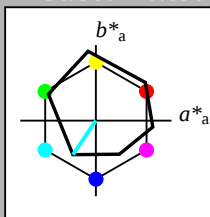
lab^*ich und lab^*nch

A: Buntton C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -0.98 47.5
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*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 55.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.13 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 35.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 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 -8.39 -7.1
LAB*LAB 86.21 -7.57 -11.24
LAB*LAB 87.5 13.57 236.02

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.86 -8.02 -8.42
LAB*LAB 66.86 -7.58 -11.25
LAB*LAB 62.5 13.57 236.02

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 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 47.5 13.57 236.02

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 38.32 -15.03 -0.60
LAB*LAB 38.32 -15.16 -22.5
LAB*LAB 35.01 21.14 236.02

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 28.17 -7.57 -11.03
LAB*LAB 28.17 -7.57 -11.24
LAB*LAB 28.17 13.57 236.02

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ich 0.125 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*ich 0.0 0.0 0.0 (1.0)
lab*nch 0.125 0.25 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

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

ORS18; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

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

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

relative Inform. Technology (IT)
olv3* 0.5 1.0 1.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 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 -15.8 -19.98
LAB*LAB 77.01 -15.16 -22.5
LAB*LAB 75.0 21.14 236.02

relative CIELAB lab*
lab*lab 0.762 -0.278 -0.414
lab*ich 0.75 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*ich 0.762 -0.247 -0.433
lab*nch 0.75 0.5 0.656

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.67 -15.43 -20.29
LAB*LAB 57.67 -15.16 -22.5
LAB*LAB 50.0 21.14 236.02

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

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olv4* 0.25 1.0 1.0 (1.0)
cmyn4* 0.75 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.47 -22.83 -32.17
LAB*LAB 48.47 -22.75 -33.75
LAB*LAB 37.51 40.72 236.02

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

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 38.32 -15.03 -0.60
LAB*LAB 38.32 -15.16 -22.5
LAB*LAB 35.01 21.14 236.02

relative CIELAB lab*
lab*lab 0.262 -0.278 -0.414
lab*ich 0.25 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*ich 0.262 -0.247 -0.433
lab*nch 0.25 0.5 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 28.17 -7.57 -11.03
LAB*LAB 28.17 -7.57 -11.24
LAB*LAB 28.17 13.57 236.02

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ich 0.125 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*ich 0.0 0.0 0.0 (1.0)
lab*nch 0.125 0.25 0.656

relative Inform. Technology (IT)
olv3* 0.25 1.0 1.0 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olv4* 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 -33.75
LAB*LAB 62.5 40.72 236.02

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

relative Inform. Technology (IT)
olv3* 0.0 1.0 1.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 (1.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 58.62 -30.33 -45.01
LAB*LAB 58.62 -30.33 -45.01
LAB*LAB 50.0 21.14 236.02

relative CIELAB lab*
lab*lab 0.525 -0.496 -0.867
lab*ich 0.5 1.0 0.656
lab*nch 0.0 1.0 0.656
relative Natural Colour (NC)
lab*ich 0.525 -0.496 -0.867
lab*nch 0.5 1.0 0.656

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.13 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 35.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.262 -0.278 -0.414
lab*ich 0.25 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*ich 0.262 -0.247 -0.433
lab*nch 0.25 0.5 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

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

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton $h^* = lab^*h = 196/360 = 0.545$

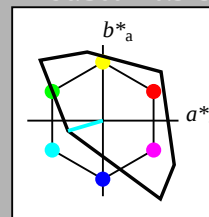
lab^*tch und lab^*nch

A: Buntton C

LCH*Ma: 87 48 196

olv*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 0.0
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*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 55.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.13 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 35.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.86 -8.02 -8.42
LAB*LAB 66.86 -7.58 -11.25
LAB*LAB 62.5 13.57 236.02

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

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.67 -15.43 -20.29
LAB*LAB 57.67 -15.16 -

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

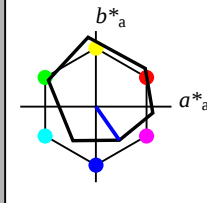
lab^*ich und lab^*nch

A: Buntton V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 93$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -0.98 47.5
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*ich 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*ice 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 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*ice 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 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*ice 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (0.25)
cmyn4* 0.0 0.0 0.0 (0.25)
standard and adapted CIELAB
LAB*LAB 37.36 0.13 0.83
LAB*LAB 37.36 0.0 0.0
LAB*LAB 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 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*ice 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

ORS18; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

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

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 60.56 15.23 -19.79
LAB*LAB 60.56 15.23 -19.79
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.287 -0.408
lab*ich 0.5 0.287 -0.408
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*trj 0.5 0.287 -0.408
lab*ice 0.5 0.287 -0.408
lab*nce 0.0 0.5 0.847

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 0.5 0.5 0.5 (0.75)
cmyn4* 0.5 0.5 0.5 (0.25)
standard and adapted CIELAB
LAB*LAB 41.22 15.55 -22.2
LAB*LAB 41.22 15.55 -22.2
LAB*LAB 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.287 -0.409
lab*ich 0.25 0.287 -0.409
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*trj 0.25 0.287 -0.409
lab*ice 0.25 0.287 -0.409
lab*nce 0.0 0.5 0.847

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 21.87 15.57 -22.4
LAB*LAB 21.87 15.57 -22.4
LAB*LAB 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 0.25 0.25 0.25 (1.0)
cmyn4* 0.75 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 43.14 23.34 -32.07
LAB*LAB 43.14 23.34 -32.07
LAB*LAB 62.5 0.06 305.0

relative CIELAB lab*
lab*lab 0.25 0.43 -0.613
lab*ich 0.25 0.43 -0.613
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*trj 0.25 0.43 -0.613
lab*ice 0.25 0.43 -0.613
lab*nce 0.0 0.5 0.847

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.73 31.09 -44.39
LAB*LAB 25.73 31.09 -44.39
LAB*LAB 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.573 -0.818
lab*ich 0.0 0.573 -0.818
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*trj 0.0 0.573 -0.818
lab*ice 0.0 0.573 -0.818
lab*nce 0.0 0.5 0.847

$n^* = 0.25$

Schwarzheit n^*

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton $h^* = lab^*h = 306/360 = 0.851$

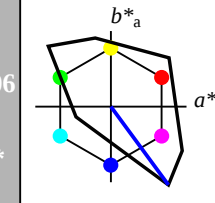
lab^*tch und lab^*nch

A: Buntton V

LCH*Ma: 30 129 306

olv*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 158$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 0.0
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*ich 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*ice 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 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*ice 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 55.31 19.01 -25.89
LAB*LAB 55.31 19.01 -25.89
LAB*LAB 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 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*ice 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (0.25)
cmyn4* 0.0 0.0 0.0 (0.25)
standard and adapted CIELAB
LAB*LAB 37.36 0.13 0.83
LAB*LAB 37.36 0.0 0.0
LAB*LAB 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 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*ice 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 62.9 38.02 -51.78
LAB*LAB 62.9 38.02 -51.78
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.296 -0.402
lab*ich 0.5 0.296 -0.402
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*trj 0.5 0.296 -0.402
lab*ice 0.5 0.296 -0.402
lab*nce 0.0 0.5 0.851

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 0.5 0.5 0.5 (0.75)
cmyn4* 0.75 0.75 0.75 (0.25)
standard and adapted CIELAB
LAB*LAB 39.05 38.03 -51.79
LAB*LAB 39.05 38.03 -51.79
LAB*LAB 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.296 -0.402
lab*ich 0.25 0.296 -0.402
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*trj 0.25 0.296 -0.402
lab*ice 0.25 0.296 -0.402
lab*nce 0.0 0.5 0.851

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 22.8 57.04 -77.68
LAB*LAB 22.8 57.04 -77.68
LAB*LAB 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.318 0.592 -0.803
lab*ich 0.0 0.318 0.592 -0.803
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*trj 0.0 0.318 0.592 -0.803
lab*ice 0.0 0.318 0.592 -0.803
lab*nce 0.0 0.5 0.851

$n^* = 0.00$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 62.9 38.02 -51.78
LAB*LAB 62.9 38.02 -51.78
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.296 -0.402
lab*ich 0.5 0.296 -0.402
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*trj 0.5 0.296 -0.402
lab*ice 0.5 0.296 -0.402
lab*nce 0.0 0.5 0.851

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 0.5 0.5 0.5 (0.75)
cmyn4* 0.75 0.75 0.75 (0.25)
standard and adapted CIELAB
LAB*LAB 39.05 38.03 -51.79
LAB*LAB 39.05 38.03 -51.79
LAB*LAB 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.296 -0.402
lab*ich 0.25 0.296 -0.402
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*trj 0.25 0.296 -0.402
lab*ice 0.25 0.296 -0.402
lab*nce 0.0 0.5 0.851

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 22.8 57.04 -77.68
LAB*LAB 22.8 57.04 -77.68
LAB*LAB 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.318 0.592 -0.803
lab*ich 0.0 0.318 0.592 -0.803
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*trj 0.0 0.318 0.592 -0.803
lab*ice 0.0 0.318 0.592 -0.803
lab*nce 0.0 0.5 0.851

$n^* = 0.00$

TLS00; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 62.9 38.02 -51.78
LAB*LAB 62.9 38.02 -51.78
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.296 -0.402
lab*ich 0.5 0.296 -0.402
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*trj 0.5 0.296 -0.402
lab*ice 0.5 0.296 -0.402
lab*nce 0.0 0.5 0.851

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 0.5 0.5 0.5 (0.75)
cmyn4* 0.75 0.75 0.75 (0.25)
standard and adapted CIELAB
LAB*LAB 39.05 38.03 -51.79
LAB*LAB 39.05 38.03 -51.79
LAB*LAB 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.296 -0.402
lab*ich 0.25 0.296 -0.402
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*trj 0.25 0.296 -0.402
lab*ice 0.25 0.296 -0.402
lab*nce 0.0 0.5 0.851

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 22.8 57.04 -77.68
LAB*LAB 22.8 57.04 -77.68
LAB*LAB 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.318 0.592 -0.803
lab*ich 0.0 0.318 0.592 -0.803
lab*nch 0.

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

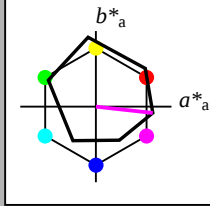
lab^*ich und lab^*nch

A: Buntton M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -0.98 47.5
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*ich 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*ice 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 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*ice 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 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*ice 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 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 0.13 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 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*ice 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.01 0.01 0.0
LAB*LAB 0.01 0.01 0.0
LAB*LAB 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

ORS18; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regulartät
 $g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$

relative Inform. Technology (IT)
olv3* 1.0 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olv4* 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*LAB 75.0 37.86 353.66

relative CIELAB lab*
lab*lab 0.695 0.497 -0.054
lab*ich 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*ice 0.75 0.5 0.932
lab*nce 0.0 0.5 0.72

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (0.0)
olv4* 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 56.15 -3.9
LAB*LAB 59.95 56.45 -6.26
LAB*LAB 62.5 56.8 353.66

relative CIELAB lab*
lab*lab 0.542 0.745 -0.082
lab*ich 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*ice 0.625 0.75 0.932
lab*nce 0.0 0.75 0.72

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.13 75.18 -6.79
LAB*LAB 48.13 75.26 -8.35
LAB*LAB 50.0 75.73 353.66

relative CIELAB lab*
lab*lab 0.389 0.994 -0.109
lab*ich 0.5 1.0 0.982
lab*nch 0.0 1.0 0.982
relative Natural Colour (NC)
lab*trj 0.389 0.909 -0.416
lab*ice 0.5 1.0 0.932
lab*nce 0.0 1.0 0.72

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 33.07 37.84 -4.17
LAB*LAB 33.07 37.63 -4.17
LAB*LAB 35.01 37.86 353.66

relative CIELAB lab*
lab*lab 0.195 0.497 -0.054
lab*ich 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*ice 0.25 0.5 0.932
lab*nce 0.0 0.5 0.72

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LAB 0.03 0.0 0.0
LAB*LAB 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton $h^* = lab^*h = 328/360 = 0.912$

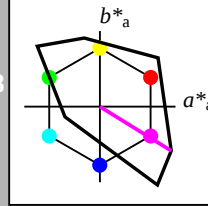
lab^*tch und lab^*nch

A: Buntton M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 0.0
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*ich 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*ice 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 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*ice 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.25 0.25 0.874
LAB*LAB 56.25 0.25 0.874
LAB*LAB 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 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*ice 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.5 0.125 0.177
LAB*LAB 37.5 0.125 0.177
LAB*LAB 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 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*ice 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

TLS00; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regulartät
 $g^*_{H,rel} = 20$
 $g^*_{C,rel} = 37$

relative Inform. Technology (IT)
olv3* 1.0 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olv4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.35 47.17 -29.19
LAB*LAB 76.35 47.17 -29.19
LAB*LAB 75.00 55.47 328.23

relative CIELAB lab*
lab*lab 0.8 0.425 -0.262
lab*ich 0.75 0.5 0.912
lab*nch 0.0 0.5 0.912
relative Natural Colour (NC)
lab*trj 0.8 0.352 -0.354
lab*ice 0.75 0.5 0.874
lab*nce 0.0 0.5 0.69

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (0.0)
olv4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 62.03 23.59 -14.6
LAB*LAB 62.03 23.59 -14.6
LAB*LAB 62.5 23.74 328.24

relative CIELAB lab*
lab*lab 0.65 0.213 -0.131
lab*ich 0.625 0.25 0.912
lab*nch 0.0 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.65 0.176 -0.177
lab*ice 0.625 0.25 0.874
lab*nce 0.0 0.25 0.69

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.13 75.18 -6.79
LAB*LAB 48.13 75.26 -8.35
LAB*LAB 50.0 75.73 353.66

relative CIELAB lab*
lab*lab 0.4 0.213 -0.131
lab*ich 0.375 0.25 0.912
lab*nch 0.0 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.4 0.176 -0.177
lab*ice 0.375 0.25 0.874
lab*nce 0.0 0.25 0.69

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 33.07 37.84 -4.17
LAB*LAB 33.07 37.63 -4.17
LAB*LAB 35.01 37.86 353.66

relative CIELAB lab*
lab*lab 0.3 0.213 -0.131
lab*ich 0.25 0.25 0.912
lab*nch 0.0 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.3 0.176 -0.177
lab*ice 0.25 0.25 0.874
lab*nce 0.0 0.25 0.69

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ich 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*ice 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

RG500-7, 5 stufige Reihen für konstanten CIELAB Buntton 354/360 = 0.982 (links)

5 stufige Reihen für konstanten CIELAB Buntton 328/360 = 0.912 (rechts)

BAM-Prüfvorlage RG50; Farbmetrik-Systeme ORS18 & TLS00 input: $olv^* setrgbcolor$

A: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: $olv^* setrgbcolor / w^* setgray$

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

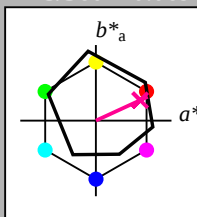
lab^*ich und lab^*nch

A: Buntton R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	1.0	1.0	1.0	(1.0)
olv8*	0.0	0.0	0.0	(0.0)
olv9*	1.0	1.0	1.0	(1.0)
olv10*	0.0	0.0	0.0	(0.0)
olv11*	1.0	1.0	1.0	(1.0)
olv12*	0.0	0.0	0.0	(0.0)
olv13*	1.0	1.0	1.0	(1.0)
olv14*	0.0	0.0	0.0	(0.0)
olv15*	1.0	1.0	1.0	(1.0)
olv16*	0.0	0.0	0.0	(0.0)
olv17*	1.0	1.0	1.0	(1.0)
olv18*	0.0	0.0	0.0	(0.0)
olv19*	1.0	1.0	1.0	(1.0)
olv20*	0.0	0.0	0.0	(0.0)
olv21*	1.0	1.0	1.0	(1.0)
olv22*	0.0	0.0	0.0	(0.0)
olv23*	1.0	1.0	1.0	(1.0)
olv24*	0.0	0.0	0.0	(0.0)
olv25*	1.0	1.0	1.0	(1.0)
olv26*	0.0	0.0	0.0	(0.0)
olv27*	1.0	1.0	1.0	(1.0)
olv28*	0.0	0.0	0.0	(0.0)
olv29*	1.0	1.0	1.0	(1.0)
olv30*	0.0	0.0	0.0	(0.0)
olv31*	1.0	1.0	1.0	(1.0)
olv32*	0.0	0.0	0.0	(0.0)
olv33*	1.0	1.0	1.0	(1.0)
olv34*	0.0	0.0	0.0	(0.0)
olv35*	1.0	1.0	1.0	(1.0)
olv36*	0.0	0.0	0.0	(0.0)
olv37*	1.0	1.0	1.0	(1.0)
olv38*	0.0	0.0	0.0	(0.0)
olv39*	1.0	1.0	1.0	(1.0)
olv40*	0.0	0.0	0.0	(0.0)
olv41*	1.0	1.0	1.0	(1.0)
olv42*	0.0	0.0	0.0	(0.0)
olv43*	1.0	1.0	1.0	(1.0)
olv44*	0.0	0.0	0.0	(0.0)
olv45*	1.0	1.0	1.0	(1.0)
olv46*	0.0	0.0	0.0	(0.0)
olv47*	1.0	1.0	1.0	(1.0)
olv48*	0.0	0.0	0.0	(0.0)
olv49*	1.0	1.0	1.0	(1.0)
olv50*	0.0	0.0	0.0	(0.0)
olv51*	1.0	1.0	1.0	(1.0)
olv52*	0.0	0.0	0.0	(0.0)
olv53*	1.0	1.0	1.0	(1.0)
olv54*	0.0	0.0	0.0	(0.0)
olv55*	1.0	1.0	1.0	(1.0)
olv56*	0.0	0.0	0.0	(0.0)
olv57*	1.0	1.0	1.0	(1.0)
olv58*	0.0	0.0	0.0	(0.0)
olv59*	1.0	1.0	1.0	(1.0)
olv60*	0.0	0.0	0.0	(0.0)
olv61*	1.0	1.0	1.0	(1.0)
olv62*	0.0	0.0	0.0	(0.0)
olv63*	1.0	1.0	1.0	(1.0)
olv64*	0.0	0.0	0.0	(0.0)
olv65*	1.0	1.0	1.0	(1.0)
olv66*	0.0	0.0	0.0	(0.0)
olv67*	1.0	1.0	1.0	(1.0)
olv68*	0.0	0.0	0.0	(0.0)
olv69*	1.0	1.0	1.0	(1.0)
olv70*	0.0	0.0	0.0	(0.0)
olv71*	1.0	1.0	1.0	(1.0)
olv72*	0.0	0.0	0.0	(0.0)
olv73*	1.0	1.0	1.0	(1.0)
olv74*	0.0	0.0	0.0	(0.0)
olv75*	1.0	1.0	1.0	(1.0)
olv76*	0.0	0.0	0.0	(0.0)
olv77*	1.0	1.0	1.0	(1.0)
olv78*	0.0	0.0	0.0	(0.0)
olv79*	1.0	1.0	1.0	(1.0)
olv80*	0.0	0.0	0.0	(0.0)
olv81*	1.0	1.0	1.0	(1.0)
olv82*	0.0	0.0	0.0	(0.0)
olv83*	1.0	1.0	1.0	(1.0)
olv84*	0.0	0.0	0.0	(0.0)
olv85*	1.0	1.0	1.0	(1.0)
olv86*	0.0	0.0	0.0	(0.0)
olv87*	1.0	1.0	1.0	(1.0)
olv88*	0.0	0.0	0.0	(0.0)
olv89*	1.0	1.0	1.0	(1.0)
olv90*	0.0	0.0	0.0	(0.0)
olv91*	1.0	1.0	1.0	(1.0)
olv92*	0.0	0.0	0.0	(0.0)
olv93*	1.0	1.0	1.0	(1.0)
olv94*	0.0	0.0	0.0	(0.0)
olv95*	1.0	1.0	1.0	(1.0)
olv96*	0.0	0.0	0.0	(0.0)
olv97*	1.0	1.0	1.0	(1.0)
olv98*	0.0	0.0	0.0	(0.0)
olv99*	1.0	1.0	1.0	(1.0)
olv100*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv5*	1.0	0.75	0.831	(1.0)
olv6*	0.0	0.25	0.169	(0.0)
olv7*	1.0	0.75	0.831	(1.0)
olv8*	0.0	0.25	0.169	(0.0)
olv9*	1.0	0.75	0.831	(1.0)
olv10*	0.0	0.25	0.169	(0.0)
olv11*	1.0	0.75	0.831	(1.0)
olv12*	0.0	0.25	0.169	(0.0)
olv13*	1.0	0.75	0.831	(1.0)
olv14*	0.0	0.25	0.169	(0.0)
olv15*	1.0	0.75	0.831	(1.0)
olv16*	0.0	0.25	0.169	(0.0)
olv17*	1.0	0.75	0.831	(1.0)
olv18*	0.0	0.25	0.169	(0.0)
olv19*	1.0	0.75	0.831	(1.0)
olv20*	0.0	0.25	0.169	(0.0)
olv21*	1.0	0.75	0.831	(1.0)
olv22*	0.0	0.25	0.169	(0.0)
olv23*	1.0	0.75	0.831	(1.0)
olv24*	0.0	0.25	0.169	(0.0)
olv25*	1.0	0.75	0.831	(1.0)
olv26*	0.0	0.25	0.169	(0.0)
olv27*	1.0	0.75	0.831	(1.0)
olv28*	0.0	0.25	0.169	(0.0)
olv29*	1.0	0.75	0.831	(1.0)
olv30*	0.0	0.25	0.169	(0.0)
olv31*	1.0	0.75	0.831	(1.0)
olv32*	0.0	0.25	0.169	(0.0)
olv33*	1.0	0.75	0.831	(1.0)
olv34*	0.0	0.25	0.169	(0.0)
olv35*	1.0	0.75	0.831	(1.0)
olv36*	0.0	0.25	0.169	(0.0)
olv37*	1.0	0.75	0.831	(1.0)
olv38*	0.0	0.25	0.169	(0.0)
olv39*	1.0	0.75	0.831	(1.0)
olv40*	0.0	0.25	0.169	(0.0)
olv41*	1.0	0.75	0.831	(1.0)
olv42*	0.0	0.25	0.169	(0.0)
olv43*	1.0	0.75	0.831	(1.0)
olv44*	0.0	0.25	0.169	(0.0)
olv45*	1.0	0.75	0.831	(1.0)
olv46*	0.0	0.25	0.169	(0.0)
olv47*	1.0	0.75	0.831	(1.0)
olv48*	0.0	0.25	0.169	(0.0)
olv49*	1.0	0.75	0.831	(1.0)
olv50*	0.0	0.25	0.169	(0.0)
olv51*	1.0	0.75	0.831	(1.0)
olv52*	0.0	0.25	0.169	(0.0)
olv53*	1.0	0.75	0.831	(1.0)
olv54*	0.0	0.25	0.169	(0.0)
olv55*	1.0	0.75	0.831	(1.0)
olv56*	0.0	0.25	0.169	(0.0)
olv57*	1.0	0.75	0.831	(1.0)
olv58*	0.0	0.25	0.169	(0.0)
olv59*	1.0	0.75	0.831	(1.0)
olv60*	0.0	0.25	0.169	(0.0)
olv61*	1.0	0.75	0.831	(1.0)
olv62*	0.0	0.25	0.169	(0.0)
olv63*	1.0	0.75	0.831	(1.0)
olv64*	0.0	0.25	0.169	(0.0)
olv65*	1.0	0.75	0.831	(1.0)
olv66*	0.0	0.25	0.169	(0.0)
olv67*	1.0	0.75	0.831	(1.0)
olv68*	0.0	0.25	0.169	(0.0)
olv69*	1.0	0.75	0.831	(1.0)
olv70*	0.0	0.25	0.169	(0.0)
olv71*	1.0	0.75	0.831	(1.0)
olv72*	0.0	0.25	0.169	(0.0)
olv73*	1.0	0.75	0.831	(1.0)
olv74*	0.0	0.25	0.169	(0.0)
olv75*	1.0	0.75	0.831	(1.0)
olv76*	0.0	0.25	0.169	(0.0)
olv77*	1.0	0.75	0.831	(1.0)
olv78*	0.0	0.25	0.169	(0.0)
olv79*	1.0	0.75	0.831	(1.0)
olv80*	0.0	0.25	0.169	(0.0)
olv81*	1.0	0.75	0.831	(1.0)
olv82*	0.0	0.25	0.169	(0.0)
olv83*	1.0	0.75	0.831	(1.0)
olv84*	0.0	0.25	0.169	(0.0)
olv85*	1.0	0.75	0.831	(1.0)
olv86*	0.0	0.25	0.169	(0.0)
olv87*	1.0	0.75	0.831	(1.0)
olv88*	0.0	0.25	0.169	(0.0)
olv89*	1.0	0.75	0.831	(1.0)
olv90*	0.0	0.25	0.169	(0.0)
olv91*	1.0	0.75	0.831	(1.0)
olv92*	0.0	0.25	0.169	(0.0)
olv93*	1.0	0.75	0.831	(1.0)
olv94*	0.0	0.25	0.169	(0.0)
olv95*	1.0	0.75	0.831	(1.0)
olv96*	0.0	0.25	0.169	(0.0)
olv97*	1.0	0.75	0.831	(1.0)
olv98*	0.0	0.25	0.169	(0.0)
olv99*	1.0	0.75	0.831	(1.0)
olv100*	0.0	0.25	0.169	(0.0)

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv5*	1.0	0.75	0.831	(1.0)
olv6*	0.0	0.25	0.169	(0.0)
olv7*	1.0	0.75	0.831	(1.0)
olv8*	0.0	0.25	0.169	(0.0)
olv9*	1.0	0.75	0.831	(1.0)
olv10*	0.0	0.25	0.169	(0.0)
olv11*	1.0	0.75	0.831	(1.0)
olv12*	0.0	0.25	0.169	(0.0)
olv13*	1.0	0.75	0.831	(1.0)
olv14*	0.0	0.25	0.169	(0.0)
olv15*	1.0	0.75	0.831	(1.0)
olv16*	0.0	0.25	0.169	(0.0)
olv17*	1.0	0.75	0.831	(1.0)
olv18*	0.0	0.25	0.169	(0.0)
olv19*	1.0	0.75	0.831	(1.0)
olv20*	0.0	0.25	0.169	(0.0)
olv21*	1.0	0.75	0.831	(1.0)
olv22*	0.0	0.25	0.169	(0.0)
olv23*	1.0	0.75	0.831	(1.0)
olv24*	0.0	0.25	0.169	(0.0)
olv25*	1.0	0.75	0.831	(1.0)
olv26*	0.0	0.25	0.169	(0.0)
olv27*	1.0	0.75	0.831	(1.0)
olv28*	0.0	0.25	0.169	(0.0)
olv29*	1.0	0.75	0.831	(1.0)
olv30*	0.0	0.25	0.169	(0.0)
olv31*	1.0	0.75	0.831	(1.0)
olv32*	0.0	0.25	0.169	(0.0)
olv33*	1.0	0.75	0.831	(1.0)
olv34*	0.0	0.25	0.169	(0.0)
olv35*	1.0	0.75	0.831	(1.0)
olv36*	0.0	0.25	0.169	(0.0)
olv37*	1.0	0.75	0.831	(1.0)
olv38*	0.0	0.25	0.169	(0.0)
olv39*	1.0	0.75	0.831	(1.0)
olv40*	0.0	0.25	0.169	(0.0)
olv41*	1.0	0.75	0.831	(1.0)
olv42*	0.0	0.25	0.169	(0.0)
olv43*	1.0	0.75	0.831	(1.0)
olv44*	0.0	0.25	0.169	(0.0)
olv45*	1.0	0.75	0.831	(1.0)
olv46*	0.0	0.25	0.169	(0.0)
olv47*	1.0	0.75	0.831	(1.0)
olv48*	0.0	0.25	0.169	(0.0)
olv49*	1.0	0.75	0.831	(1.0)
olv50*	0.0	0.25	0.169	(0.0)
olv51*	1.0	0.75	0.831	(1.0)
olv52*	0.0	0.25	0.169	(0.0)
olv53*	1.0	0.75	0.831	(1.0)
olv54*	0.0	0.25	0.169	(0.0)
olv55*	1.0	0.75	0.831	(1.0)
olv56*	0.0	0.25	0.169	(0.0)
olv57*	1.0	0.75	0.831	(1.0)
olv58*	0.0	0.25	0.169	(0.0)
olv59*	1.0	0.75	0.831	(1.0)
olv60*	0.0	0.25	0.169	(0.0)

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

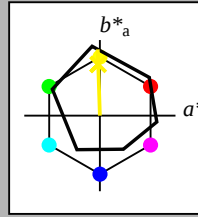
lab^*ich und lab^*nch

A: Buntton J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -0.98 47.5
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*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 75.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 43.76 0.13 0.83
LAB*LAB 43.76 0.0 0.0
LAB*LAB 25.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 0.0

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

$n^* = 1.0$

ORS18; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

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

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

relative Inform. Technology (IT)
olv3* 1.0 0.951 0.5 (1.0)
cmyn3* 0.0 0.049 0.5 (0.0)
olv4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 90.8 -2.3 48.29
LAB*LAB 90.8 -1.4 43.84
LAB*LAB 75.0 43.86 91.85

relative CIELAB lab*
lab*lab 0.94 -0.015 0.5
lab*ich 0.75 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*ich 0.94 0.0 0.5
lab*nch 0.0 0.5 0.255
lab*nce 0.75 0.5 0.255

relative Inform. Technology (IT)
olv3* 0.75 0.701 0.25 (1.0)
cmyn3* 0.25 0.299 0.75 (0.0)
olv4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 71.45 -1.92 46.98
LAB*LAB 71.45 -1.4 43.84
LAB*LAB 50.0 43.87 91.84

relative CIELAB lab*
lab*lab 0.81 -0.015 0.5
lab*ich 0.75 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*ich 0.81 0.0 0.5
lab*nch 0.0 0.5 0.255
lab*nce 0.75 0.5 0.255

relative Inform. Technology (IT)
olv3* 0.5 0.451 0.0 (1.0)
cmyn3* 0.5 0.525 0.75 (0.0)
olv4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 54.4 -0.89 23.91
LAB*LAB 54.4 -0.69 21.92
LAB*LAB 37.5 21.93 91.84

relative CIELAB lab*
lab*lab 0.47 -0.007 0.25
lab*ich 0.375 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*ich 0.47 0.0 0.25
lab*nch 0.0 0.25 0.255
lab*nce 0.375 0.25 0.255

relative Inform. Technology (IT)
olv3* 0.25 0.451 0.0 (1.0)
cmyn3* 0.75 0.525 0.75 (0.0)
olv4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 35.06 -0.52 22.69
LAB*LAB 35.06 -0.69 21.91
LAB*LAB 12.5 21.92 91.83

relative CIELAB lab*
lab*lab 0.22 -0.007 0.25
lab*ich 0.125 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*ich 0.22 0.0 0.25
lab*nch 0.0 0.25 0.255
lab*nce 0.125 0.25 0.255

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 1.0 0.926 0.25 (1.0)
cmyn3* 0.0 0.074 0.25 (0.0)
olv4* 1.0 0.926 0.25 (1.0)
cmyn4* 0.0 0.074 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 88.49 -2.96 70.05
LAB*LAB 88.49 -2.1 65.76
LAB*LAB 62.5 65.79 91.84

relative CIELAB lab*
lab*lab 0.911 -0.023 0.75
lab*ich 0.625 0.75 0.255
lab*nch 0.0 0.75 0.255
relative Natural Colour (NC)
lab*ich 0.911 0.0 0.75
lab*nch 0.0 0.75 0.255
lab*nce 0.625 0.75 0.255

relative Inform. Technology (IT)
olv3* 0.75 0.676 0.0 (1.0)
cmyn3* 0.25 0.299 0.75 (0.0)
olv4* 1.0 0.926 0.25 (1.0)
cmyn4* 0.0 0.074 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 69.14 -2.58 68.74
LAB*LAB 69.14 -2.1 65.76
LAB*LAB 37.51 65.79 91.84

relative CIELAB lab*
lab*lab 0.661 -0.023 0.75
lab*ich 0.375 0.75 0.255
lab*nch 0.0 0.75 0.255
relative Natural Colour (NC)
lab*ich 0.661 0.0 0.75
lab*nch 0.0 0.75 0.255
lab*nce 0.375 0.75 0.255

relative Inform. Technology (IT)
olv3* 0.5 0.549 0.0 (1.0)
cmyn3* 0.5 0.525 0.75 (0.0)
olv4* 1.0 0.926 0.25 (1.0)
cmyn4* 0.0 0.074 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 52.1 -1.39 43.86
LAB*LAB 52.1 -1.39 43.86
LAB*LAB 25.01 43.86 91.84

relative CIELAB lab*
lab*lab 0.44 -0.015 0.5
lab*ich 0.25 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*ich 0.44 0.0 0.5
lab*nch 0.0 0.5 0.255
lab*nce 0.25 0.5 0.255

relative Inform. Technology (IT)
olv3* 0.25 0.549 0.0 (1.0)
cmyn3* 0.75 0.525 0.75 (0.0)
olv4* 1.0 0.926 0.25 (1.0)
cmyn4* 0.0 0.074 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0
LAB*LAB 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.25 0.0 0.0
lab*nch 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.25$

Schwarzheit n^*

0.00

0.25

0.50

0.75

1.00

relative Buntheit c^*

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

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

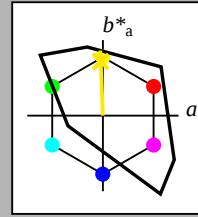
lab^*ich und lab^*nch

A: Buntton J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 0.0
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*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.01 0.0 0.0
LAB*LAB 50.01 0.0 0.0
LAB*LAB 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LAB 47.72 0.0 0.0
LAB*LAB 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 0.0

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

$n^* = 1.0$

5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (rechts)

TLS00; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)
olv3* 1.0 0.912 0.5 (1.0)
cmyn3* 0.0 0.088 0.5 (0.0)
olv4* 1.0 0.912 0.5 (1.0)
cmyn4* 0.0 0.088 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 90.31 -1.74 43.06
LAB*LAB 90.31 -1.74 43.06
LAB*LAB 75.0 43.09 92.32

relative CIELAB lab*
lab*lab 0.947 -0.019 0.499
lab*ich 0.75 0.5 0.256
lab*nch 0.0 0.5 0.256
relative Natural Colour (NC)
lab*ich 0.947 0.0 0.5
lab*nch 0.0 0.5 0.256
lab*nce 0.75 0.5 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.662 0.25 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (1.0)
cmyn4* 0.0 0.088 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 66.47 -1.73 43.06
LAB*LAB 66.47 -1.73 43.06
LAB*LAB 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.87 -0.019 0.5
lab*ich 0.75 0.5 0.256
lab*nch 0.0 0.5 0.256
relative Natural Colour (NC)
lab*ich 0.87 0.0 0.5
lab*nch 0.0 0.5 0.256
lab*nce 0.75 0.5 0.256

relative Inform. Technology (IT)
olv3* 0.5 0.412 0.0 (1.0)
cmyn3* 0.5 0.544 0.75 (0.0)
olv4* 1.0 0.912 0.5 (1.0)
cmyn4* 0.0 0.088 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 45.16 -0.86 21.53
LAB*LAB 45.16 -0.86 21.53
LAB*LAB 37.5 21.55 92.31

relative CIELAB lab*
lab*lab 0.5 0.412 0.0 (1.0)
lab*ich 0.5 0.412 0.0 (1.0)
lab*nch 0.0 0.5 0.256
relative Natural Colour (NC)
lab*ich 0.5 0.412 0.0 (1.0)
lab*nch 0.0 0.5 0.256
lab*nce 0.5 0.412 0.0 (1.0)

relative Inform. Technology (IT)
olv3* 0.25 0.412 0.0 (1.0)
cmyn3* 0.75 0.544 0.75 (0.0)
olv4* 1.0 0.912 0.5 (1.0)
cmyn4* 0.0 0.088 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0
LAB*LAB 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 0.25 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*ich 0.25 0.0 0.0
lab*nch 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.50$

Schwarzheit n^*

0.00

0.25

0.50

0.75

1.00

relative Buntheit c^*

RG500-7, 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (links)

BAM-Prüfvorlage RG50; Farbmetrik-Systeme ORS18 & TLS00 input: olv* setrgbcolor

A: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne

output: olv* setrgbcolor / w* setgray

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

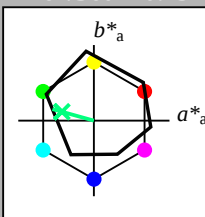
lab^*ich und lab^*nch

A: Buntton G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25

Dreiecks-Helligkeit t^*



relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -0.98 47.5
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*ich 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*ich 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ich 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*ich 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ich 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*ich 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (0.25)
cmyn4* 0.0 0.0 0.0 (0.25)
standard and adapted CIELAB
LAB*LAB 37.36 0.13 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 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*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.812 (1.0)
cmyn3* 0.25 0.0 0.188 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 84.75 -14.48 7.85
LAB*LAB 84.75 -13.69 3.81
LAB*LAB 87.5 14.22 164.46

relative CIELAB lab*
lab*lab 0.862 -0.24 0.067
lab*ich 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lab 0.862 -0.24 0.067
lab*ich 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.75 1.0 0.812 (0.5)
cmyn4* 0.25 0.0 0.188 (0.5)
standard and adapted CIELAB
LAB*LAB 65.41 -14.11 6.55
LAB*LAB 65.41 -13.7 3.81
LAB*LAB 62.5 14.22 164.46

relative CIELAB lab*
lab*lab 0.612 -0.24 0.067
lab*ich 0.625 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lab 0.612 -0.24 0.067
lab*ich 0.625 0.25 0.457
lab*nch 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (0.25)
cmyn4* 0.0 0.0 0.0 (0.25)
standard and adapted CIELAB
LAB*LAB 37.36 0.13 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ich 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*ich 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.47
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 -

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

ORS18; adaptierte CIELAB-Daten

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

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

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

%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

%Umfang

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

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

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

%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

%Umfang

$u^*_{rel} = 93$

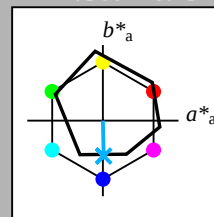
Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

für Buntton $h^* = lab^*h = 271/360 = 0.754$

lab^*ich und lab^*nch

A: Buntton B
LCH*Ma: 42 45 271
olv*Ma: 0.0 0.49 1.0

Dreiecks-Helligkeit t^*



ORS18; adaptierte CIELAB-Daten					
	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularität

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 -0.98 0.75
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.872 1.0 (1.0)
cmyn3* 0.25 0.128 0.0 (0.0)
olv4* 0.75 0.872 1.0 (1.0)
cmyn4* 0.25 0.128 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 82.0 -0.45 -7.31
LAB*LAB 82.0 0.27 -11.16
LAB*LAB 82.0 0.27 -11.16

relative Inform. Technology (IT)
olv3* 0.5 0.744 1.0 (1.0)
cmyn3* 0.5 0.256 0.0 (0.0)
olv4* 0.5 0.744 1.0 (1.0)
cmyn4* 0.5 0.256 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 68.6 0.07 -19.39
LAB*LAB 68.6 0.55 -22.34
LAB*LAB 68.6 0.55 -22.34

relative Inform. Technology (IT)
olv3* 0.25 0.616 1.0 (1.0)
cmyn3* 0.25 0.384 0.0 (0.0)
olv4* 0.25 0.616 1.0 (1.0)
cmyn4* 0.25 0.384 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 55.19 0.61 -31.48
LAB*LAB 55.19 0.61 -31.48
LAB*LAB 55.19 0.61 -31.48

relative Inform. Technology (IT)
olv3* 0.0 0.488 1.0 (1.0)
cmyn3* 1.0 0.512 0.0 (0.0)
olv4* 0.0 0.488 1.0 (1.0)
cmyn4* 1.0 0.512 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 41.79 1.1 -44.68
LAB*LAB 41.79 1.1 -44.68
LAB*LAB 41.79 1.1 -44.68

relative Inform. Technology (IT)
olv3* 0.0 0.368 0.75 (1.0)
cmyn3* 0.75 0.506 0.25 (0.0)
olv4* 0.0 0.368 0.75 (1.0)
cmyn4* 0.75 0.506 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 49.25 0.45 -20.7
LAB*LAB 49.25 0.45 -20.7
LAB*LAB 49.25 0.45 -20.7

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 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 -0.61 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 76.06 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.622 0.75 (1.0)
cmyn3* 0.5 0.378 0.25 (0.0)
olv4* 0.75 0.872 1.0 (1.0)
cmyn4* 0.25 0.128 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 62.65 0.27 -11.17
LAB*LAB 62.65 0.27 -11.17
LAB*LAB 62.65 0.27 -11.17

relative Inform. Technology (IT)
olv3* 0.25 0.494 0.75 (1.0)
cmyn3* 0.75 0.506 0.25 (0.0)
olv4* 0.5 0.494 0.75 (1.0)
cmyn4* 0.75 0.506 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 49.25 0.45 -20.7
LAB*LAB 49.25 0.45 -20.7
LAB*LAB 49.25 0.45 -20.7

relative Inform. Technology (IT)
olv3* 0.0 0.368 0.75 (1.0)
cmyn3* 0.75 0.506 0.25 (0.0)
olv4* 0.0 0.368 0.75 (1.0)
cmyn4* 0.75 0.506 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 49.25 0.45 -20.7
LAB*LAB 49.25 0.45 -20.7
LAB*LAB 49.25 0.45 -20.7

relative Inform. Technology (IT)
olv3* 0.0 0.244 0.5 (1.0)
cmyn3* 0.5 0.256 0.5 (0.0)
olv4* 0.0 0.244 0.5 (1.0)
cmyn4* 0.5 0.256 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 29.9 0.55 -22.34
LAB*LAB 29.9 0.55 -22.34
LAB*LAB 29.9 0.55 -22.34

relative Inform. Technology (IT)
olv3* 0.0 0.16 0.25 (1.0)
cmyn3* 0.25 0.16 0.25 (0.0)
olv4* 0.0 0.16 0.25 (1.0)
cmyn4* 0.25 0.16 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 56.71 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 56.71 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.08 0.0 (1.0)
cmyn3* 0.0 0.08 0.0 (0.0)
olv4* 0.0 0.08 0.0 (1.0)
cmyn4* 0.0 0.08 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47

RG500-7, 5 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (links)

5 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (rechts)

BAM-Prüfvorlage RG50; Farbmetrik-Systeme ORS18 & TLS00 input: $olv^* setrgbcolor$

A: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: $olv^* setrgbcolor / w^* setgray$

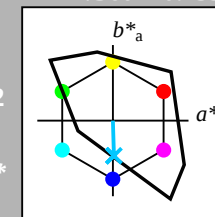
Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

für Buntton $h^* = lab^*h = 272/360 = 0.755$

lab^*ich und lab^*nch

A: Buntton B
LCH*Ma: 65 49 272
olv*Ma: 0.0 0.61 1.0

Dreiecks-Helligkeit t^*



TLS00; adaptierte CIELAB-Daten					
	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	79.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularität

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 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 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.903 1.0 (1.0)
cmyn3* 0.25 0.097 0.0 (0.0)
olv4* 0.75 0.903 1.0 (1.0)
cmyn4* 0.25 0.097 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 87.77 0.36 -12.14
LAB*LAB 87.77 0.36 -12.14
LAB*LAB 87.77 0.36 -12.14

relative Inform. Technology (IT)
olv3* 0.5 0.805 1.0 (1.0)
cmyn3* 0.5 0.195 0.0 (0.0)
olv4* 0.5 0.805 1.0 (1.0)
cmyn4* 0.5 0.195 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.13 0.73 -24.31
LAB*LAB 80.13 0.73 -24.31
LAB*LAB 80.13 0.73 -24.31

relative Inform. Technology (IT)
olv3* 0.25 0.616 1.0 (1.0)
cmyn3* 0.25 0.384 0.0 (0.0)
olv4* 0.25 0.616 1.0 (1.0)
cmyn4* 0.25 0.384 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 63.92 0.37 -12.15
LAB*LAB 63.92 0.37 -12.15
LAB*LAB 63.92 0.37 -12.15

relative Inform. Technology (IT)
olv3* 0.0 0.488 1.0 (1.0)
cmyn3* 1.0 0.512 0.0 (0.0)
olv4* 0.0 0.488 1.0 (1.0)
cmyn4* 1.0 0.512 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 41.79 1.1 -44.68
LAB*LAB 41.79 1.1 -44.68
LAB*LAB 41.79 1.1 -44.68

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 56.71 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.494 0.75 (1.0)
cmyn3* 0.75 0.506 0.25 (0.0)
olv4* 0.25 0.494 0.75 (1.0)
cmyn4* 0.75 0.506 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 49.25 0.45 -20.7
LAB*LAB 49.25 0.45 -20.7
LAB*LAB 49.25 0.45 -20.7

relative Inform. Technology (IT)
olv3* 0.0 0.368 0.75 (1.0)
cmyn3* 0.75 0.506 0.25 (0.0)
olv4* 0.0 0.368 0.75 (1.0)
cmyn4* 0.75 0.506 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 49.25 0.45 -20.7
LAB*LAB 49.25 0.45 -20.7
LAB*LAB 49.25 0.45 -20.7

relative Inform. Technology (IT)
olv3* 0.0 0.244 0.5 (1.0)
cmyn3* 0.5 0.256 0.5 (0.0)
olv4* 0.0 0.244 0.5 (1.0)
cmyn4* 0.5 0.256 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 29.9 0.55 -22.34
LAB*LAB 29.9 0.55 -22.34
LAB*LAB 29.9 0.55 -22.34

relative Inform. Technology (IT)
olv3* 0.0 0.16 0.25 (1.0)
cmyn3* 0.25 0.16 0.25 (0.0)
olv4* 0.0 0.16 0.25 (1.0)
cmyn4* 0.25 0.16 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 56.71 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 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 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 56.71 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.08 0.0 (1.0)
cmyn3* 0.0 0.08 0.0 (0.0)
olv4* 0.0 0.08 0.0 (1.0)
cmyn4* 0.0 0.08 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47
LAB*LAB 18.02 0.03 0.47