

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

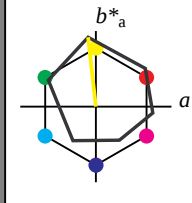
lab^*ch und lab^*nch

D65: Buntton Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 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 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 1.0 0.0 0.0
lab*ce 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*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*ce 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 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*ce 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 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 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*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.25 0.0 0.0
lab*ce 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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 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*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.75 (1.0)
cmyn3* 0.0 0.0 0.25 (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 94.14 -2.56 22.93
LAB*LAB 94.14 -2.56 22.93
LAB*LAB 87.15 23.07 96.38

relative CIELAB lab*
lab*lab 0.984 -0.027 0.248
lab*ch 0.875 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*tr 0.984 -0.024 0.248
lab*ce 0.875 0.25 0.268
lab*nce 0.0 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 (0.5)
cmyn4* 0.0 0.0 0.25 (0.5)
standard and adapted CIELAB
LAB*LAB 74.8 -3.15 26.3
LAB*LAB 74.8 -3.15 26.3
LAB*LAB 62.5 22.94 96.38

relative CIELAB lab*
lab*lab 0.734 -0.024 0.249
lab*ch 0.625 0.25 0.266
lab*nch 0.0 0.25 0.266
relative Natural Colour (NC)
lab*tr 0.734 -0.024 0.249
lab*ce 0.625 0.25 0.266
lab*nce 0.0 0.25 0.266

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.25 (1.0)
cmyn3* 0.5 0.5 0.25 (0.0)
olv4* 1.0 1.0 0.5 (0.5)
cmyn4* 0.0 0.0 0.25 (0.5)
standard and adapted CIELAB
LAB*LAB 55.45 -2.78 5.05
LAB*LAB 55.45 -2.78 5.05
LAB*LAB 37.5 23.08 96.38

relative CIELAB lab*
lab*lab 0.484 -0.082 0.248
lab*ch 0.375 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*tr 0.484 -0.082 0.248
lab*ce 0.375 0.25 0.268
lab*nce 0.0 0.25 0.268

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.75 0.75 1.0 (0.0)
olv4* 1.0 1.0 0.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 41.9 -5.23 0.66
LAB*LAB 41.9 -5.23 0.66
LAB*LAB 25.01 46.15 96.38

relative CIELAB lab*
lab*lab 0.234 -0.027 0.248
lab*ch 0.125 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*tr 0.234 -0.024 0.249
lab*ce 0.125 0.25 0.266
lab*nce 0.0 0.25 0.266

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 1.0 1.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 36.1 -2.56 22.93
LAB*LAB 36.1 -2.56 22.93
LAB*LAB 12.5 23.07 96.38

$n^* = 0.50$

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 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 -6.06 50.46
LAB*LAB 75.0 46.15 96.38

relative CIELAB lab*
lab*lab 0.967 -0.055 0.497
lab*ch 0.75 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*tr 0.967 -0.048 0.497
lab*ce 0.75 0.5 0.266
lab*nce 0.0 0.5 0.266

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.75 (0.0)
olv4* 1.0 1.0 0.5 (0.5)
cmyn4* 0.0 0.0 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 73.54 -5.12 45.88
LAB*LAB 73.54 -5.12 45.88
LAB*LAB 50.0 46.15 96.38

relative CIELAB lab*
lab*lab 0.717 -0.055 0.497
lab*ch 0.5 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*tr 0.717 -0.048 0.498
lab*ce 0.5 0.5 0.266
lab*nce 0.0 0.5 0.266

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 0.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 54.19 -5.12 45.88
LAB*LAB 54.19 -5.12 45.88
LAB*LAB 25.01 46.15 96.38

relative CIELAB lab*
lab*lab 0.467 -0.055 0.497
lab*ch 0.25 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*tr 0.467 -0.048 0.497
lab*ce 0.25 0.5 0.266
lab*nce 0.0 0.5 0.266

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.75 0.75 1.0 (0.0)
olv4* 1.0 1.0 0.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 41.9 -5.23 0.66
LAB*LAB 41.9 -5.23 0.66
LAB*LAB 25.01 46.15 96.38

relative CIELAB lab*
lab*lab 0.234 -0.027 0.248
lab*ch 0.125 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*tr 0.234 -0.024 0.249
lab*ce 0.125 0.25 0.266
lab*nce 0.0 0.25 0.266

$n^* = 0.25$

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.25 (1.0)
cmyn3* 0.0 0.0 0.25 (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 91.62 -8.61 73.31
LAB*LAB 91.62 -8.61 73.31
LAB*LAB 62.5 69.23 96.38

relative CIELAB lab*
lab*lab 0.951 -0.082 0.745
lab*ch 0.625 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*tr 0.951 -0.073 0.746
lab*ce 0.625 0.75 0.266
lab*nce 0.0 0.75 0.266

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.0 (1.0)
cmyn3* 0.25 0.25 1.0 (0.0)
olv4* 1.0 1.0 0.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 90.36 -11.15 96.15
LAB*LAB 90.36 -11.15 96.15
LAB*LAB 50.0 92.3 96.38

relative CIELAB lab*
lab*lab 0.933 -0.11 0.994
lab*ch 0.5 1.0 0.268
lab*nch 0.0 1.0 0.268
relative Natural Colour (NC)
lab*tr 0.933 -0.097 0.995
lab*ce 0.5 1.0 0.266
lab*nce 0.0 1.0 0.266

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 0.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 72.28 -8.23 72.0
LAB*LAB 72.28 -8.23 72.0
LAB*LAB 50.0 92.3 96.38

relative CIELAB lab*
lab*lab 0.701 -0.082 0.745
lab*ch 0.375 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*tr 0.701 -0.073 0.746
lab*ce 0.375 0.75 0.266
lab*nce 0.0 0.75 0.266

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 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 54.19 -5.12 45.88
LAB*LAB 54.19 -5.12 45.88
LAB*LAB 25.01 46.15 96.38

relative CIELAB lab*
lab*lab 0.467 -0.055 0.497
lab*ch 0.25 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*tr 0.467 -0.048 0.497
lab*ce 0.25 0.5 0.266
lab*nce 0.0 0.5 0.266

$n^* = 0.00$

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 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 91.62 -8.61 73.31
LAB*LAB 91.62 -8.61 73.31
LAB*LAB 62.5 69.23 96.38

relative CIELAB lab*
lab*lab 0.951 -0.082 0.745
lab*ch 0.625 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*tr 0.951 -0.073 0.746
lab*ce 0.625 0.75 0.266
lab*nce 0.0 0.75 0.266

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 0.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 90.36 -11.15 96.15
LAB*LAB 90.36 -11.15 96.15
LAB*LAB 50.0 92.3 96.38

relative CIELAB lab*
lab*lab 0.933 -0.11 0.994
lab*ch 0.5 1.0 0.268
lab*nch 0.0 1.0 0.268
relative Natural Colour (NC)
lab*tr 0.933 -0.097 0.995
lab*ce 0.5 1.0 0.266
lab*nce 0.0 1.0 0.266

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 0.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 72.28 -8.23 72.0
LAB*LAB 72.28 -8.23 72.0
LAB*LAB 50.0 92.3 96.38

relative CIELAB lab*
lab*lab 0.701 -0.082 0.745
lab*ch 0.375 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*tr 0.701 -0.073 0.746
lab*ce 0.375 0.75 0.266
lab*nce 0.0 0.75 0.266

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 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 54.19 -5.12 45.88
LAB*LAB 54.19 -5.12 45.88
LAB*LAB 25.01 46.15 96.38

relative CIELAB lab*
lab*lab 0.467 -0.055 0.497
lab*ch 0.25 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*tr 0.467 -0.048 0.497
lab*ce 0.25 0.5 0.266
lab*nce 0.0 0.5 0.266

$n^* = 0.00$

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 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 91.62 -8.61 73.31
LAB*LAB 91.62 -8.61 73.31
LAB*LAB 62.5 69.23 96.38

relative CIELAB lab*
lab*lab 0.951 -0.082 0.745
lab*ch 0.625 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*tr 0.951 -0.073 0.746
lab*ce 0.625 0.75 0.266
lab*nce 0.0 0.75 0.266

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 0.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 90.36 -11.15 96.15
LAB*LAB 90.36 -11.15 96.15
LAB*LAB 50.0 92.3 96.38

relative CIELAB lab*
lab*lab 0.933 -0.11 0.994
lab*ch 0.5 1.0 0.268
lab*nch 0.0 1.0 0.268
relative Natural Colour (NC)
lab*tr 0.933 -0.097 0.995
lab*ce 0.5 1.0 0.266
lab*nce 0.0 1.0 0.266

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 0.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 72.28 -8.23 72.0
LAB*LAB 72.28 -8.23 72.0
LAB*LAB 50.0 92.3 96.38

relative CIELAB lab*
lab*lab 0.701 -0.082 0.745
lab*ch 0.375 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*tr 0.701 -0.073 0.746
lab*ce 0.375 0.75 0.266
lab*nce 0.0 0.75 0.266

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 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 54.19 -5.12 45.88
LAB*LAB 54.19 -5.12 45.88
LAB*LAB 25.01 46.15 96.38

relative CIELAB lab*
lab*lab 0.467 -0.055 0.497
lab*ch 0.25 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*tr 0.467 -0.048 0.497
lab*ce 0.25 0.5 0.266
lab*nce 0.0 0.5 0.266

$n^* = 0.00$

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.0 (1.0)
cmyn3* 0.0 0.0 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 91.62 -8.61 73.31
LAB*LAB 91.62 -8.61 73.31
LAB*LAB 62.5 69.23 96.38

relative CIELAB lab*
lab*lab 0.951 -0.082 0.745
lab*ch 0.625 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*tr 0.951 -0.073 0.746
lab*ce 0.625 0.75 0.266
lab*nce 0.0 0.75 0.266

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 0.0 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 90.36 -11.15 96.15
LAB*LAB 90.36 -11.15 96.15
LAB*LAB 50.0 92.3 96.38

relative CIELAB lab*
lab*lab 0.933 -0.11 0.994
lab*ch 0.5 1.0 0.268
lab*nch 0.0 1.0 0.268
relative Natural Colour (NC)
lab*tr 0.933 -0.097 0.995
lab*ce 0.5 1.0 0.266
lab*nce 0.0 1.0 0.266

relative Inform. Technology (IT)
olv3* 0

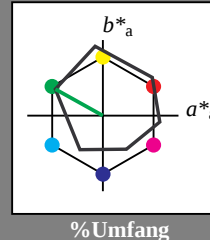
Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

lab^*ch und lab^*nch

D65: Buntton L
LCH*Ma: 51 72 151
olv*Ma: 0.0 1.0 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*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

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

relative Inform. Technology (IT)
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*LABa 76.06 0.0 0.0
LAB*LABb 75.00 0.01 -

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

relative Inform. Technology (IT)
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*LABa 56.71 0.0 0.0
LAB*LABb 50.00 0.01 -

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

relative Inform. Technology (IT)
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 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

OG510-7, 5 stufige Reihen für konstanten CIELAB Buntton 151/360 = 0.419 (links)

BAM-Prüfvorlage OG51; Farbmetrik-Systeme ORS18 & TLS18 input: $cmv0^* setcmykcolor$

D65: 2 Koordinatendaten von 5stufigen Farbreihen für 10 Bunttöne output: no change compared to input

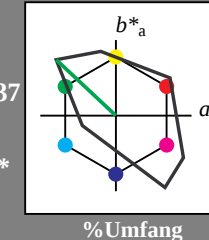
Ausgabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 137/360 = 0.38$

lab^*ch und lab^*nch

D65: Buntton L
LCH*Ma: 84 108 137
olv*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 118$

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*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

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

relative Inform. Technology (IT)
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 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*LABb 75.00 0.01 -

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

relative Inform. Technology (IT)
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 56.70 0.0 0.0
LAB*LABa 56.70 0.0 0.0
LAB*LABb 50.00 0.01 -

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

relative Inform. Technology (IT)
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 0.0 0.0
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.01 0.01 -

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

5 stufige Reihen für konstanten CIELAB Buntton 137/360 = 0.38 (rechts)

BAM-Prüfvorlage OG51; Farbmetrik-Systeme ORS18 & TLS18 input: $cmv0^* setcmykcolor$

D65: 2 Koordinatendaten von 5stufigen Farbreihen für 10 Bunttöne output: no change compared to input

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

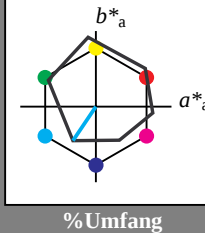
lab^*ch und lab^*nch

D65: Buntton C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 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)
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*ch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	1.0	0.0	0.0	
lab*tr	1.0	0.0	0.0	
lab*ce	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)
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*ch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.75	0.0	0.0	
lab*tr	0.75	0.0	0.0	
lab*ce	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)
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*ch	0.5	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.5	0.0	0.0	
lab*tr	0.5	0.0	0.0	
lab*ce	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)
LAB*LAB	37.36	-0.38	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*ch	0.25	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.25	0.0	0.0	
lab*tr	0.25	0.0	0.0	
lab*ce	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)
LAB*LAB	18.02	0.0	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*ch	0.0	0.0	0.0	
lab*nch	1.0	0.0	0.0	
relative Natural Colour (NC)	0.0	0.0	0.0	
lab*tr	0.0	0.0	0.0	
lab*ce	0.0	0.0	0.0	
lab*nce	1.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.75	0.75	(1.0)
cmyn3*	0.5	0.25	0.25	(0.0)
olv4*	0.75	1.0	1.0	(0.0)
cmyn4*	0.5	0.0	0.0	(0.0)
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	0.5	0.75	0.75	(1.0)
lab*ch	0.5	0.25	0.25	(0.0)
lab*nch	0.5	0.0	0.0	(0.0)
relative Natural Colour (NC)	0.5	0.0	0.0	(0.0)
lab*tr	0.5	0.75	0.75	(1.0)
lab*ce	0.5	0.25	0.25	(0.0)
lab*nce	0.5	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	0.25	0.5	0.5	(0.0)
cmyn3*	0.75	0.5	0.5	(0.0)
olv4*	0.75	1.0	1.0	(0.0)
cmyn4*	0.25	0.0	0.0	(0.0)
LAB*LAB	47.51	-7.64	-9.72	
LAB*LAB	47.51	-7.58	-11.25	
LAB*LAB	37.5	13.57	236.02	

relative CIELAB lab*

lab*lab	0.25	0.5	0.5	(0.0)
lab*ch	0.25	0.5	0.5	(0.0)
lab*nch	0.25	0.0	0.0	(0.0)
relative Natural Colour (NC)	0.25	0.0	0.0	(0.0)
lab*tr	0.25	0.5	0.5	(0.0)
lab*ce	0.25	0.5	0.5	(0.0)
lab*nce	0.25	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	0.0	0.5	0.5	(0.0)
cmyn3*	1.0	0.5	0.5	(0.0)
olv4*	0.75	1.0	1.0	(0.0)
cmyn4*	0.5	0.0	0.0	(0.0)
LAB*LAB	38.32	-15.16	-22.5	
LAB*LAB	38.32	-15.16	-22.5	
LAB*LAB	25.01	21.34	236.02	

relative CIELAB lab*

lab*lab	0.0	0.5	0.5	(0.0)
lab*ch	0.0	0.5	0.5	(0.0)
lab*nch	0.0	0.0	0.0	(0.0)
relative Natural Colour (NC)	0.0	0.0	0.0	(0.0)
lab*tr	0.0	0.5	0.5	(0.0)
lab*ce	0.0	0.5	0.5	(0.0)
lab*nce	0.0	0.0	0.0	(0.0)

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	0.25	0.25	(0.0)
LAB*LAB	28.17	-7.57	-11.24	
LAB*LAB	28.17	-7.57	-11.24	
LAB*LAB	12.5	13.57	236.02	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	(1.0)
lab*ch	0.0	0.25	0.25	(0.0)
lab*nch	0.0	0.75	0.75	(0.0)
relative Natural Colour (NC)	0.0	0.25	0.25	(0.0)
lab*tr	0.0	0.0	0.0	(1.0)
lab*ce	0.0	0.25	0.25	(0.0)
lab*nce	0.0	0.75	0.75	(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)
LAB*LAB	77.01	-15.8	-19.98	
LAB*LAB	77.01	-15.16	-22.5	
LAB*LAB	75.0	27.14	236.02	

relative CIELAB lab*

lab*lab	0.5	1.0	1.0	(1.0)
lab*ch	0.5	0.0	0.0	(0.0)
lab*nch	0.5	0.0	0.0	(0.0)
relative Natural Colour (NC)	0.5	0.0	0.0	(0.0)
lab*tr	0.5	1.0	1.0	(1.0)
lab*ce	0.5	0.0	0.0	(0.0)
lab*nce	0.5	0.0	0.0	(0.0)

$n^* = 0.00$

relative Inform. Technology (IT)

olv3*	0.0	0.75	0.75	(1.0)
cmyn3*	0.75	0.25	0.25	(0.0)
olv4*	0.5	1.0	1.0	(0.0)
cmyn4*	0.5	0.0	0.0	(0.0)
LAB*LAB	57.67	-15.43	-20.29	
LAB*LAB	57.67	-15.16	-22.5	
LAB*LAB	50.0	27.15	236.02	

relative CIELAB lab*

lab*lab	0.0	0.75	0.75	(1.0)
lab*ch	0.0	0.25	0.25	(0.0)
lab*nch	0.0	0.75	0.75	(0.0)
relative Natural Colour (NC)	0.0	0.25	0.25	(0.0)
lab*tr	0.0	0.75	0.75	(1.0)
lab*ce	0.0	0.25	0.25	(0.0)
lab*nce	0.0	0.75	0.75	(0.0)

$n^* = 0.25$

Schwarzheit n^*

relative Inform. Technology (IT)

olv3*	0.0	0.5	0.5	(0.0)
cmyn3*	1.0	0.5	0.5	(0.0)
olv4*	0.75	1.0	1.0	(0.0)
cmyn4*	0.5	0.0	0.0	(0.0)
LAB*LAB	48.41	-22.83	-32.17	
LAB*LAB	48.41	-22.75	-33.75	
LAB*LAB	37.51	40.72	236.02	

relative CIELAB lab*

lab*lab	0.0	0.5	0.5	(0.0)
lab*ch	0.0	0.25	0.25	(0.0)
lab*nch	0.0	0.75	0.75	(0.0)
relative Natural Colour (NC)	0.0	0.25	0.25	(0.0)
lab*tr	0.0	0.5	0.5	(0.0)
lab*ce	0.0	0.25	0.25	(0.0)
lab*nce	0.0	0.75	0.75	(0.0)

relative Buntheit c^*

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 196/360 = 0.546$

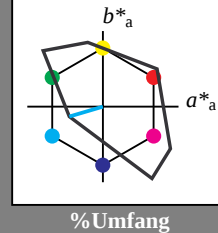
lab^*ch und lab^*nch

D65: Buntton C

LCH*Ma: 87 46 196

olv*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 118$

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)
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*ch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	1.0	0.0	0.0	
lab*tr	1.0	0.0	0.0	
lab*ce	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)
LAB*LAB	76.07	0.0	0.0	
LAB*LAB	76.07	0.0	0.0	
LAB*LAB	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*ch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.75	0.0	0.0	
lab*tr	0.75	0.0	0.0	
lab*ce	0.75	0.0	0.0	
lab*nce	0.0	0.0	0.0	

relative CIELAB lab*				
lab*lab	0.75	0.0	0.0	
lab*ch	0.75	0.0	-	
lab*nch	0.25	0.0	-	
relative Natural Colour (NC)				
lab*lrj	0.75	0.0	0.0	
lab*tce	0.75	0.0	-	
lab*nce	0.25	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	56.72	0.0	0.0	
LAB*LABa	56.72	0.0	0.0	

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

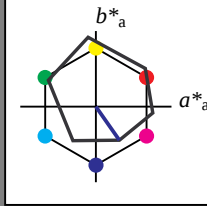
lab^*ch und lab^*nch

D65: 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*TCh 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*lce 1.0 0.0 -
lab*nce 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*TCh 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*ch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.75 0.75 0.75 (1.0)
lab*lce 0.75 0.75 0.75 (1.0)
lab*nce 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 60.56 15.23 -19.79
LAB*Lab 60.56 15.23 -19.79
LAB*TCh 75.0 27.1 305.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*ch 0.5 0.5 0.5 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.5 0.5 (1.0)
lab*lce 0.5 0.5 0.5 (1.0)
lab*nce 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 39.29 7.87 -10.13
LAB*Lab 39.29 7.87 -10.13
LAB*TCh 37.5 13.55 305.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 21.87 15.97 -32.24
LAB*Lab 21.87 15.97 -32.24
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.75 0.75 0.75 (0.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.75 0.75 0.75 (0.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 18.02 18.02 0.0
LAB*Lab 18.02 18.02 0.0
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.5 0.5 0.5 (0.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.25 0.25 0.25 (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 12.5 13.55 305.0
LAB*Lab 12.5 13.55 305.0
LAB*TCh 37.5 13.55 305.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.0 0.0 0.0 (1.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.0 0.0 0.0 (1.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.0 0.0 0.0 (1.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.0 0.0 0.0 (1.0)
lab*nce 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
RC _{IE}	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

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.25$

$n^* = 1.50$

$n^* = 1.75$

$n^* = 2.00$

$n^* = 2.25$

$n^* = 2.50$

$n^* = 2.75$

$n^* = 3.00$

$n^* = 3.25$

$n^* = 3.50$

$n^* = 3.75$

$n^* = 4.00$

$n^* = 4.25$

$n^* = 4.50$

$n^* = 4.75$

$n^* = 5.00$

$n^* = 5.25$

$n^* = 5.50$

$n^* = 5.75$

$n^* = 6.00$

$n^* = 6.25$

$n^* = 6.50$

$n^* = 6.75$

$n^* = 7.00$

$n^* = 7.25$

$n^* = 7.50$

$n^* = 7.75$

$n^* = 8.00$

$n^* = 8.25$

$n^* = 8.50$

$n^* = 8.75$

$n^* = 9.00$

$n^* = 9.25$

$n^* = 9.50$

$n^* = 9.75$

$n^* = 10.00$

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 304/360 = 0.845$

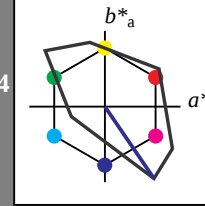
lab^*ch und lab^*nch

D65: Buntton V

LCH*Ma: 35 115 304

olv*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit t^*



%Umfang

$u^*_{rel} = 118$

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*TCh 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*lce 1.0 0.0 -
lab*nce 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 76.07 0.0 0.0
LAB*Lab 76.07 0.0 0.0
LAB*TCh 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*ch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.75 0.75 0.75 (1.0)
lab*lce 0.75 0.75 0.75 (1.0)
lab*nce 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 60.56 15.23 -19.79
LAB*Lab 60.56 15.23 -19.79
LAB*TCh 75.0 27.1 305.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*ch 0.5 0.5 0.5 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.5 0.5 (1.0)
lab*lce 0.5 0.5 0.5 (1.0)
lab*nce 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 39.29 7.87 -10.13
LAB*Lab 39.29 7.87 -10.13
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*ch 0.75 0.75 0.75 (0.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.25 0.25 0.25 (1.0)
lab*lce 0.75 0.75 0.75 (0.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 21.87 15.97 -32.24
LAB*Lab 21.87 15.97 -32.24
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.75 0.75 0.75 (0.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.75 0.75 0.75 (0.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 18.02 18.02 0.0
LAB*Lab 18.02 18.02 0.0
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.5 0.5 0.5 (0.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.25 0.25 0.25 (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 12.5 13.55 305.0
LAB*Lab 12.5 13.55 305.0
LAB*TCh 37.5 13.55 305.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.0 0.0 0.0 (1.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.0 0.0 0.0 (1.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.0 0.0 0.0 (1.0)
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCh 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (1.0)
lab*ch 0.0 0.0 0.0 (1.0)
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0 (1.0)
lab*lce 0.0 0.0 0.0 (1.0)
lab*nce 0.0 0.0 -

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

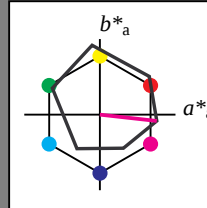
Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

lab^*ch und lab^*nch

D65: 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*TCa 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 1.0 0.0 0.0
lab*tc 1.0 0.0 0.0
lab*ncc 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*TCa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.75 0.0 0.0
lab*tc 0.75 0.0 0.0
lab*ncc 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*TCa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.5 0.0 0.0
lab*tc 0.5 0.0 0.0
lab*ncc 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 -0.38 0.63
LAB*Lab 37.36 0.0 0.0
LAB*TCa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.25 0.0 0.0
lab*tc 0.25 0.0 0.0
lab*ncc 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 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 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 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 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 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 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 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 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 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 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 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 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 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 37.63 -4.17
LAB*Lab 71.77 37.63 -4.17
LAB*TCa 75.0 37.63 353.66

relative CIELAB lab*
lab*lab 0.695 0.497 -0.054
lab*ch 0.75 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*lr 0.695 0.454 -0.208
lab*tc 0.75 0.5 0.932
lab*ncc 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 52.42 37.64 -4.17
LAB*Lab 52.42 37.64 -4.17
LAB*TCa 50.0 37.63 353.66

relative CIELAB lab*
lab*lab 0.445 0.454 -0.208
lab*ch 0.625 0.75 0.982
lab*nch 0.0 0.75 0.982
relative Natural Colour (NC)
lab*lr 0.445 0.454 -0.208
lab*tc 0.625 0.75 0.932
lab*ncc 0.0 0.75 0.72

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 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 48.13 75.18 -6.79
LAB*Lab 48.13 75.18 -6.79
LAB*TCa 50.0 75.18 353.66

relative CIELAB lab*
lab*lab 0.389 0.994 -0.109
lab*ch 0.5 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*lr 0.389 0.909 -0.416
lab*tc 0.5 0.5 0.932
lab*ncc 0.0 0.5 0.72

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olv4* 1.0 0.25 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 37.64 -4.17
LAB*Lab 37.36 37.64 -4.17
LAB*TCa 25.01 37.63 353.66

relative CIELAB lab*
lab*lab 0.292 0.745 -0.082
lab*ch 0.375 0.75 0.982
lab*nch 0.0 0.75 0.982
relative Natural Colour (NC)
lab*lr 0.292 0.682 -0.312
lab*tc 0.375 0.75 0.932
lab*ncc 0.0 0.75 0.72

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 18.03 0.0
LAB*Lab 18.02 18.03 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.195 0.454 -0.208
lab*ch 0.195 0.454 -0.208
lab*nch 0.0 0.454 -0.208
relative Natural Colour (NC)
lab*lr 0.195 0.454 -0.208
lab*tc 0.195 0.454 -0.208
lab*ncc 0.0 0.454 -0.208

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 18.03 0.0
LAB*Lab 18.02 18.03 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.248 -0.027
lab*ch 0.125 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*lr 0.097 0.248 -0.027
lab*tc 0.125 0.25 0.932
lab*ncc 0.0 0.25 0.72

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 18.03 0.0
LAB*Lab 18.02 18.03 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.007 0.007 -0.007
lab*ch 0.007 0.007 -0.007
lab*nch 0.0 0.007 -0.007
relative Natural Colour (NC)
lab*lr 0.007 0.007 -0.007
lab*tc 0.007 0.007 -0.007
lab*ncc 0.0 0.007 -0.007

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 18.03 0.0
LAB*Lab 18.02 18.03 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 0.0 0.0 -

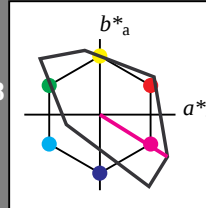
Ausgabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton $h^* = lab^*h = 328/360 = 0.911$

lab^*ch und lab^*nch

D65: Buntton M
LCH*Ma: 59 105 328
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*TCa 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 1.0 0.0 0.0
lab*tc 1.0 0.0 0.0
lab*ncc 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 76.07 0.0 0.0
LAB*Lab 76.07 0.0 0.0
LAB*TCa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.882 0.212 -0.131
lab*ch 0.875 0.25 0.911
lab*nch 0.0 0.25 0.911
relative Natural Colour (NC)
lab*lr 0.882 0.175 -0.177
lab*tc 0.875 0.25 0.874
lab*ncc 0.0 0.25 0.849

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 56.70 0.0 0.0
LAB*Lab 56.70 0.0 0.0
LAB*TCa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.625 0.25 0.874
lab*ch 0.625 0.25 0.874
lab*nch 0.0 0.25 0.849
relative Natural Colour (NC)
lab*lr 0.625 0.25 0.874
lab*tc 0.625 0.25 0.849
lab*ncc 0.0 0.25 0.849

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 0.0 0.0
LAB*Lab 37.36 0.0 0.0
LAB*TCa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.382 0.212 -0.131
lab*ch 0.375 0.25 0.911
lab*nch 0.0 0.25 0.911
relative Natural Colour (NC)
lab*lr 0.382 0.175 -0.177
lab*tc 0.375 0.25 0.874
lab*ncc 0.0 0.25 0.849

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 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.132 0.212 -0.131
lab*ch 0.125 0.25 0.911
lab*nch 0.0 0.25 0.911
relative Natural Colour (NC)
lab*lr 0.132 0.175 -0.177
lab*tc 0.125 0.25 0.874
lab*ncc 0.0 0.25 0.849

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 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 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 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 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 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 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 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 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 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*ncc 0.0 0.0 -

TLS18; adaptierte CIELAB-Daten

	$L^*=L_a^*$	a_a^*	b_a^*	$C_{ab,a}^*$	$h_{ab,a}^*$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
GC _{IE}	52.23	-42.41	13.6	44.55	162
BC _{IE}	30.57	1.41	-46.46	46.49	272

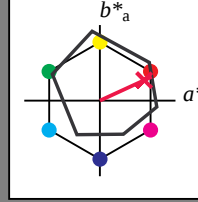
Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

lab^*ch und lab^*nch

D65: 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)
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 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 1.0 0.0 0.0
lab*lc 1.0 0.0 0.0
lab*nc 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 76.06 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.75 0.0 0.0
lab*lc 0.75 0.0 0.0
lab*nc 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 56.71 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.5 0.0 0.0
lab*lc 0.5 0.0 0.0
lab*nc 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 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 37.36 -0.03 0.83
LAB*LAB 37.36 0.0 0.0
LAB*LAB 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.25 0.0 0.0
lab*lc 0.25 0.0 0.0
lab*nc 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 0.0 0.0
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 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 0.0 0.0
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 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 0.0 0.0
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 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 0.0 0.0
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 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* 1.0 0.5 0.661 (1.0)
cmyn3* 0.0 0.5 0.339 (0.0)
olv4* 1.0 0.5 0.661 (1.0)
cmyn4* 0.0 0.5 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 71.7 33.75 18.92
LAB*LAB 71.7 34.28 15.76
LAB*LAB 71.7 34.28 15.76

relative CIELAB lab*
lab*lab 0.694 0.454 0.209
lab*ch 0.75 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*lr 0.694 0.5 0.0
lab*lc 0.75 0.5 0.0
lab*nc 0.0 0.5 0.069

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.411 (1.0)
cmyn3* 0.25 0.5 0.589 (0.0)
olv4* 1.0 0.5 0.661 (0.75)
cmyn4* 0.0 0.5 0.339 (0.25)
standard and adapted CIELAB
LAB*LAB 52.36 34.29 15.77
LAB*LAB 52.36 34.29 15.77
LAB*LAB 52.36 34.29 15.77

relative CIELAB lab*
lab*lab 0.444 0.454 0.209
lab*ch 0.5 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*lr 0.444 0.5 0.0
lab*lc 0.5 0.5 0.069
lab*nc 0.0 0.5 0.069

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.161 (1.0)
cmyn3* 0.5 0.0 0.839 (0.0)
olv4* 1.0 0.0 0.661 (0.5)
cmyn4* 0.0 0.0 0.339 (0.5)
standard and adapted CIELAB
LAB*LAB 33.01 34.29 15.77
LAB*LAB 33.01 34.29 15.77
LAB*LAB 33.01 34.29 15.77

relative CIELAB lab*
lab*lab 0.194 0.454 0.209
lab*ch 0.25 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*lr 0.194 0.5 0.0
lab*lc 0.25 0.5 0.069
lab*nc 0.0 0.5 0.069

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.081 (1.0)
cmyn3* 0.75 0.0 0.919 (0.0)
olv4* 1.0 0.0 0.661 (0.25)
cmyn4* 0.0 0.0 0.339 (0.75)
standard and adapted CIELAB
LAB*LAB 25.51 34.29 15.77
LAB*LAB 25.51 34.29 15.77
LAB*LAB 25.51 34.29 15.77

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*ch 0.125 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*lr 0.097 0.25 0.0
lab*lc 0.125 0.5 0.069
lab*nc 0.0 0.5 0.069

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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.0 0.322 (1.0)
cmyn3* 0.0 0.0 0.678 (0.0)
olv4* 1.0 0.0 0.322 (1.0)
cmyn4* 0.0 0.0 0.678 (0.0)
standard and adapted CIELAB
LAB*LAB 59.85 51.12 26.01
LAB*LAB 59.85 51.12 26.01
LAB*LAB 59.85 51.12 26.01

relative CIELAB lab*
lab*lab 0.541 0.681 0.313
lab*ch 0.625 0.75 0.069
lab*nch 0.0 0.75 0.069
relative Natural Colour (NC)
lab*lr 0.541 0.75 0.0
lab*lc 0.625 0.75 0.069
lab*nc 0.0 0.75 0.069

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.161 (1.0)
cmyn3* 0.5 0.0 0.839 (0.0)
olv4* 1.0 0.0 0.661 (0.5)
cmyn4* 0.0 0.0 0.339 (0.5)
standard and adapted CIELAB
LAB*LAB 40.51 51.49 24.71
LAB*LAB 40.51 51.49 24.71
LAB*LAB 40.51 51.49 24.71

relative CIELAB lab*
lab*lab 0.291 0.681 0.313
lab*ch 0.375 0.75 0.069
lab*nch 0.0 0.75 0.069
relative Natural Colour (NC)
lab*lr 0.291 0.75 0.0
lab*lc 0.375 0.75 0.069
lab*nc 0.0 0.75 0.069

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.081 (1.0)
cmyn3* 0.75 0.0 0.919 (0.0)
olv4* 1.0 0.0 0.661 (0.25)
cmyn4* 0.0 0.0 0.339 (0.75)
standard and adapted CIELAB
LAB*LAB 25.51 34.29 15.77
LAB*LAB 25.51 34.29 15.77
LAB*LAB 25.51 34.29 15.77

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*ch 0.125 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*lr 0.097 0.25 0.0
lab*lc 0.125 0.5 0.069
lab*nc 0.0 0.5 0.069

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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

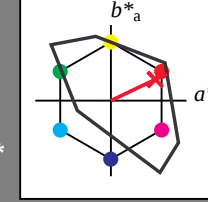
Ausgabe: Farbmetrisches Fernseh-Licht-System TLS18

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

lab^*ch und lab^*nch

D65: Buntton R
LCH*Ma: 54 82 25
olv*Ma: 1.0 0.0 0.14

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 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 1.0 0.0 0.0
lab*lc 1.0 0.0 0.0
lab*nc 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 76.07 0.0 0.0
LAB*LAB 76.07 0.0 0.0
LAB*LAB 76.07 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.75 0.0 0.0
lab*lc 0.75 0.0 0.0
lab*nc 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 0.0 0.0
LAB*LAB 56.71 0.0 0.0
LAB*LAB 56.71 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.5 0.0 0.0
lab*lc 0.5 0.0 0.0
lab*nc 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 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LAB 37.37 0.0 0.0
LAB*LAB 37.37 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.25 0.0 0.0
lab*lc 0.25 0.0 0.0
lab*nc 0.0 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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lr 0.0 0.0 0.0
lab*lc 0.0 0.0 0.0
lab*nc 1.0 0.0 0.0

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

$n^* = 1.00$

TLS18; adaptierte CIELAB-Daten

	$L^$
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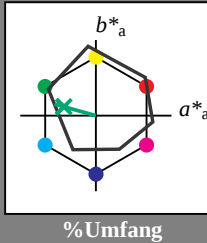
Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

lab^*ch und lab^*nch

D65: 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 0.75
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*lce 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 76.06 0.0 0.0

relative CIELAB lab*
lab*lab 0.862 -0.24 0.067
lab*ch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.862 -0.249 0.0
lab*lce 0.875 0.25 0.457
lab*nce 0.0 0.25 0.457

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 56.71 -0.24 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 56.71 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.75 0.0 0.0
lab*lce 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 37.36 -0.38 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*lce 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 18.02 0.0 0.0
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.25 0.0 0.0
lab*lce 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 (0.0)
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 0.01 0.01
LAB*LAB 0.01 0.01
LAB*LAB 0.01 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*lce 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 (0.0)
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 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*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*lce 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 (0.0)
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 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*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*lce 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 (0.0)
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 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*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*lce 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 (0.0)
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 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*ch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*lce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

ORS18; adaptierte CIELAB-Daten

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.1 -27.98 10.94
LAB*LAB 74.1 -27.4 7.62
LAB*LAB 74.1 -27.4 7.62

relative CIELAB lab*
lab*lab 0.725 -0.481 0.134
lab*ch 0.75 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*lrj 0.725 -0.489 0.0
lab*lce 0.75 0.5 0.457
lab*nce 0.0 0.5 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* 0.5 0.5 0.5 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 54.1 -14.11 6.55
LAB*LAB 54.1 -13.7 3.91
LAB*LAB 54.1 -13.7 3.91

relative CIELAB lab*
lab*lab 0.625 -0.249 0.0
lab*ch 0.625 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*lrj 0.625 -0.249 0.0
lab*lce 0.625 0.25 0.457
lab*nce 0.0 0.25 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 52.8 -54.81 15.26
LAB*LAB 52.8 -54.81 15.26
LAB*LAB 52.8 -54.81 15.26

relative CIELAB lab*
lab*lab 0.587 -0.721 0.201
lab*ch 0.625 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.587 -0.729 0.0
lab*lce 0.625 0.75 0.457
lab*nce 0.0 0.75 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45

relative CIELAB lab*
lab*lab 0.587 -0.721 0.201
lab*ch 0.625 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.587 -0.729 0.0
lab*lce 0.625 0.75 0.457
lab*nce 0.0 0.75 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45

relative CIELAB lab*
lab*lab 0.587 -0.721 0.201
lab*ch 0.625 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.587 -0.729 0.0
lab*lce 0.625 0.75 0.457
lab*nce 0.0 0.75 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45

relative CIELAB lab*
lab*lab 0.587 -0.721 0.201
lab*ch 0.625 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.587 -0.729 0.0
lab*lce 0.625 0.75 0.457
lab*nce 0.0 0.75 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45

relative CIELAB lab*
lab*lab 0.587 -0.721 0.201
lab*ch 0.625 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.587 -0.729 0.0
lab*lce 0.625 0.75 0.457
lab*nce 0.0 0.75 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45

relative CIELAB lab*
lab*lab 0.587 -0.721 0.201
lab*ch 0.625 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.587 -0.729 0.0
lab*lce 0.625 0.75 0.457
lab*nce 0.0 0.75 0.457

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45
LAB*LAB 50.0 -56.91 16.45

relative CIELAB lab*
lab*lab 0.587 -0.721 0.201
lab*ch 0.625 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*lrj 0.587 -0.729 0.0
lab*lce 0.625 0.75 0.457
lab*nce 0.0 0.75 0.457

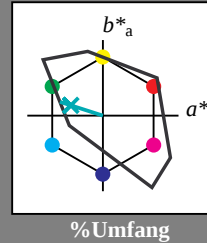
Ausgabe: Farbmetrisches Fernseh-Licht-System TLS18

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

lab^*ch und lab^*nch

D65: Buntton G
LCH*Ma: 86 60 162
olv*Ma: 0.0 1.0 0.64

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 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*lce 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 76.07 0.0 0.0
LAB*LAB 76.07 0.0 0.0
LAB*LAB 76.07 0.0 0.0

relative CIELAB lab*
lab*lab 0.97 -0.237 0.076
lab*ch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*lrj 0.97 -0.249 0.0
lab*lce 0.875 0.25 0.451
lab*nce 0.0 0.25 0.451

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 56.72 0.0 0.0
LAB*LAB 56.72 0.0 0.0
LAB*LAB 56.72 0.0 0.0

relative CIELAB lab*
lab*lab 0.72 -0.237 0.076
lab*ch 0.625 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*lrj 0.72 -0.249 0.0
lab*lce 0.625 0.25 0.451
lab*nce 0.0 0.25 0.451

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 37.37 0.0 0.0
LAB*LAB 37.37 0.0 0.0
LAB*LAB 37.37 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 -0.237 0.076
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*lce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 35.01 -14.2 4.56
LAB*LAB 35.01 -14.2 4.56
LAB*LAB 35.01 -14.2 4.56

relative CIELAB lab*
lab*lab 0.439 -0.475 0.153
lab*ch 0.439 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.439 -0.499 0.0
lab*lce 0.439 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 32.01 -28.42 9.12
LAB*LAB 32.01 -28.42 9.12
LAB*LAB 32.01 -28.42 9.12

relative CIELAB lab*
lab*lab 0.47 -0.237 0.076
lab*ch 0.375 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*lrj 0.47 -0.249 0.0
lab*lce 0.375 0.25 0.451
lab*nce 0.0 0.25 0.451

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 30.01 -29.86 16.22
LAB*LAB 30.01 -29.86 16.22
LAB*LAB 30.01 -29.86 16.22

relative CIELAB lab*
lab*lab 0.439 -0.475 0.153
lab*ch 0.439 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.439 -0.499 0.0
lab*lce 0.439 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 30.01 -29.86 16.22
LAB*LAB 30.01 -29.86 16.22
LAB*LAB 30.01 -29.86 16.22

relative CIELAB lab*
lab*lab 0.439 -0.475 0.153
lab*ch 0.439 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.439 -0.499 0.0
lab*lce 0.439 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 30.01 -29.86 16.22
LAB*LAB 30.01 -29.86 16.22
LAB*LAB 30.01 -29.86 16.22

relative CIELAB lab*
lab*lab 0.439 -0.475 0.153
lab*ch 0.439 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.439 -0.499 0.0
lab*lce 0.439 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
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 30.01 -

Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

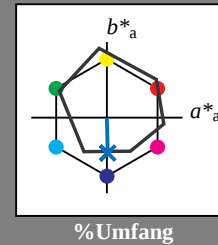
lab^*ch und lab^*nch

D65: 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)
LAB*LAB	95.41	-0.98	4.75	
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)
LAB*LAB	82.0	-0.45	-7.31	
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