

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 103/360 = 0.286$

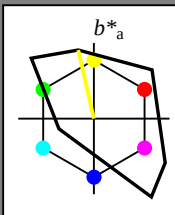
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

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*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 1.0 0.0 0.0
lab*tce 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*tce 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 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.00 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*tce 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 (0.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 25.00 0.01

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.25 0.0 0.0
lab*tce 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 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*LABb 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	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

% Regularity

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

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

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 0.5
standard and adapted CIELAB
LAB*LAB 94.03 -10.34 45.37
LAB*LABa 94.03 -10.34 45.37
LAB*LABb 97.50 23.26 102.85

relative CIELAB lab*
lab*lab 0.985 -0.11 0.487
lab*tch 0.75 0.5 0.286
lab*nch 0.0 0.5 0.286
relative Natural Colour (NC)
lab*tr 0.985 -0.116 0.486
lab*tce 0.75 0.5 0.286
lab*nce 0.0 0.5 0.158

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 0.75
cmyn4* 0.0 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 70.19 -10.34 45.38
LAB*LABa 70.19 -10.34 45.38
LAB*LABb 75.00 46.54 102.85

relative CIELAB lab*
lab*lab 0.736 -0.11 0.487
lab*tch 0.5 0.5 0.286
lab*nch 0.0 0.5 0.286
relative Natural Colour (NC)
lab*tr 0.736 -0.116 0.486
lab*tce 0.5 0.5 0.286
lab*nce 0.0 0.5 0.158

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 46.34 -10.34 45.37
LAB*LABa 46.34 -10.34 45.37
LAB*LABb 50.01 46.53 102.85

relative CIELAB lab*
lab*lab 0.486 -0.11 0.487
lab*tch 0.25 0.5 0.286
lab*nch 0.0 0.5 0.286
relative Natural Colour (NC)
lab*tr 0.486 -0.116 0.486
lab*tce 0.25 0.5 0.286
lab*nce 0.0 0.5 0.158

$n^* = 0.50$

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 93.34 -15.51 68.05
LAB*LABa 93.34 -15.51 68.05
LAB*LABb 97.50 69.8 102.85

relative CIELAB lab*
lab*lab 0.978 -0.166 0.731
lab*tch 0.625 0.75 0.286
lab*nch 0.0 0.75 0.286
relative Natural Colour (NC)
lab*tr 0.978 -0.175 0.729
lab*tce 0.625 0.75 0.286
lab*nce 0.0 0.75 0.158

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 69.5 -15.51 68.05
LAB*LABa 69.5 -15.51 68.05
LAB*LABb 75.01 69.8 102.85

relative CIELAB lab*
lab*lab 0.728 -0.166 0.731
lab*tch 0.375 0.75 0.286
lab*nch 0.0 0.75 0.286
relative Natural Colour (NC)
lab*tr 0.728 -0.175 0.729
lab*tce 0.375 0.75 0.286
lab*nce 0.0 0.75 0.158

$n^* = 0.25$

blackness n^*

chromaticness c^*

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 107/360 = 0.298$

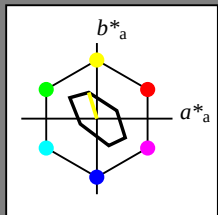
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 94 36 107

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

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

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 1.0 0.0 0.0
lab*tce 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*tce 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 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.00 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*tce 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 (0.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*LABb 25.00 0.01

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

$n^* = 0.50$

blackness n^*

chromaticness c^*

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	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

% Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

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 0.5
standard and adapted CIELAB
LAB*LAB 94.03 -10.34 45.37
LAB*LABa 94.03 -10.34 45.37
LAB*LABb 97.50 23.26 102.85

relative CIELAB lab*
lab*lab 0.985 -0.11 0.487
lab*tch 0.75 0.5 0.286
lab*nch 0.0 0.5 0.286
relative Natural Colour (NC)
lab*tr 0.985 -0.116 0.486
lab*tce 0.75 0.5 0.286
lab*nce 0.0 0.5 0.158

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 0.75
cmyn4* 0.0 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 70.19 -10.34 45.38
LAB*LABa 70.19 -10.34 45.38
LAB*LABb 75.00 46.54 102.85

relative CIELAB lab*
lab*lab 0.736 -0.11 0.487
lab*tch 0.5 0.5 0.286
lab*nch 0.0 0.5 0.286
relative Natural Colour (NC)
lab*tr 0.736 -0.116 0.486
lab*tce 0.5 0.5 0.286
lab*nce 0.0 0.5 0.158

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 46.34 -10.34 45.37
LAB*LABa 46.34 -10.34 45.37
LAB*LABb 50.01 46.53 102.85

relative CIELAB lab*
lab*lab 0.486 -0.11 0.487
lab*tch 0.25 0.5 0.286
lab*nch 0.0 0.5 0.286
relative Natural Colour (NC)
lab*tr 0.486 -0.116 0.486
lab*tce 0.25 0.5 0.286
lab*nce 0.0 0.5 0.158

$n^* = 0.25$

blackness n^*

chromaticness c^*

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 136/360 = 0.378$

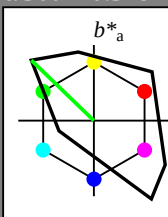
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 84 115 136

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	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
RC _{IE}	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

%Regularity

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

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

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*TCa 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 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 71.57 0.0 0.0
LAB*Lab 71.57 0.0 0.0
LAB*TCa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
lab*nce 0.0 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*TCa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.5 (0.0)
lab*nce 0.0 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 23.87 0.0 0.0
LAB*Lab 23.87 0.0 0.0
LAB*TCa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*tce 0.25 0.25 0.25 (0.0)
lab*nce 0.0 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 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 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 23.87 0.0 0.0
LAB*Lab 23.87 0.0 0.0
LAB*TCa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*tce 0.25 0.25 0.25 (0.0)
lab*nce 0.0 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 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 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 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 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 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 0.0 0.0 (0.0)

NE53-7, 5 step scales for constant CIELAB hue 136/360 = 0.378 (left)

BAM-test chart NE53; Colorimetric systems TLS00 & TLS70

D65: 2 coordinate data of 5 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 142/360 = 0.395$

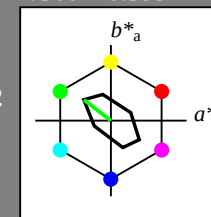
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	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
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

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*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 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 71.57 0.0 0.0
LAB*Lab 71.57 0.0 0.0
LAB*TCa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
lab*nce 0.0 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*TCa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.5 (0.0)
lab*nce 0.0 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 23.87 0.0 0.0
LAB*Lab 23.87 0.0 0.0
LAB*TCa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*tce 0.25 0.25 0.25 (0.0)
lab*nce 0.0 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 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 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 23.87 0.0 0.0
LAB*Lab 23.87 0.0 0.0
LAB*TCa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.25 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (0.0)
lab*tce 0.25 0.25 0.25 (0.0)
lab*nce 0.0 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 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 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 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 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 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 0.0 0.0 (0.0)

5 step scales for constant CIELAB hue 142/360 = 0.395 (right)

input: `olv* setrgbcolor`

output: no change compared to input

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 196/360 = 0.545$

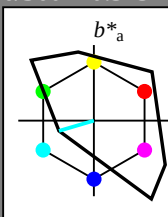
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 87 48 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	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)
olv5*	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	1.0	1.0	(1.0)
olv3*	0.25	0.0	0.0	(0.0)
olv4*	0.75	1.0	1.0	(1.0)
olv4*	0.25	0.0	0.0	(0.0)
olv5*	0.75	1.0	1.0	(1.0)
olv5*	0.25	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	93.27	-11.53	-3.38	
LAB*LAB	93.27	-11.53	-3.38	
LAB*LAB	93.27	-11.53	-3.38	

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	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

% Regularity

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

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	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)
olv5*	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	71.57	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	69.43	-11.53	-3.38	
LAB*LAB	69.43	-11.53	-3.38	
LAB*LAB	69.43	-11.53	-3.38	

relative Inform. Technology (IT)

olv3*	0.5	1.0	1.0	(1.0)
olv3*	0.5	0.0	0.0	(0.0)
olv4*	0.5	1.0	1.0	(1.0)
olv4*	0.5	0.0	0.0	(0.0)
olv5*	0.5	1.0	1.0	(1.0)
olv5*	0.5	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	91.14	-23.07	-6.77	
LAB*LAB	91.14	-23.07	-6.77	
LAB*LAB	91.14	-23.07	-6.77	

relative Inform. Technology (IT)

olv3*	0.25	0.5	0.5	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	0.25	0.5	0.5	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.25	0.5	0.5	(1.0)
olv5*	0.25	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	88.98	0.0	0.0	
LAB*LAB	88.98	0.0	0.0	
LAB*LAB	88.98	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.5	0.25	0.25	(0.0)
olv4*	0.5	0.5	0.5	(1.0)
olv4*	0.5	0.25	0.25	(0.0)
olv5*	0.5	0.5	0.5	(1.0)
olv5*	0.5	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	88.98	0.0	0.0	
LAB*LAB	88.98	0.0	0.0	
LAB*LAB	88.98	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	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)
olv5*	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	71.57	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	69.43	-11.53	-3.38	
LAB*LAB	69.43	-11.53	-3.38	
LAB*LAB	69.43	-11.53	-3.38	

relative Inform. Technology (IT)

olv3*	0.25	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	0.25	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.25	0.75	0.75	(1.0)
olv5*	0.25	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	67.29	-23.08	-6.77	
LAB*LAB	67.29	-23.08	-6.77	
LAB*LAB	67.29	-23.08	-6.77	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.5	0.25	0.25	(0.0)
olv4*	0.5	0.5	0.5	(1.0)
olv4*	0.5	0.25	0.25	(0.0)
olv5*	0.5	0.5	0.5	(1.0)
olv5*	0.5	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	88.98	0.0	0.0	
LAB*LAB	88.98	0.0	0.0	
LAB*LAB	88.98	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.5	0.25	0.25	(0.0)
olv4*	0.5	0.5	0.5	(1.0)
olv4*	0.5	0.25	0.25	(0.0)
olv5*	0.5	0.5	0.5	(1.0)
olv5*	0.5	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	88.98	0.0	0.0	
LAB*LAB	88.98	0.0	0.0	
LAB*LAB	88.98	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	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)
olv5*	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	47.72	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	45.26	-11.53	-3.38	
LAB*LAB	45.26	-11.53	-3.38	
LAB*LAB	45.26	-11.53	-3.38	

relative Inform. Technology (IT)

olv3*	0.25	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	0.25	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.25	0.75	0.75	(1.0)
olv5*	0.25	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	65.16	-34.61	-10.16	
LAB*LAB	65.16	-34.61	-10.16	
LAB*LAB	65.16	-34.61	-10.16	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.5	0.25	0.25	(0.0)
olv4*	0.5	0.5	0.5	(1.0)
olv4*	0.5	0.25	0.25	(0.0)
olv5*	0.5	0.5	0.5	(1.0)
olv5*	0.5	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	65.16	-34.61	-10.16	
LAB*LAB	65.16	-34.61	-10.16	
LAB*LAB	65.16	-34.61	-10.16	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.5	0.25	0.25	(0.0)
olv4*	0.5	0.5	0.5	(1.0)
olv4*	0.5	0.25	0.25	(0.0)
olv5*	0.5	0.5	0.5	(1.0)
olv5*	0.5	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	65.16	-34.61	-10.16	
LAB*LAB	65.16	-34.61	-10.16	
LAB*LAB	65.16	-34.61	-10.16	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	23.87	0.0	0.0	
LAB*LAB	23.87	0.0	0.0	
LAB*LAB	23.87	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	21.73	-11.53	-3.38	
LAB*LAB	21.73	-11.53	-3.38	
LAB*LAB	21.73	-11.53	-3.38	

relative Inform. Technology (IT)

olv3*	0.25	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	0.25	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.25	0.75	0.75	(1.0)
olv5*	0.25	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	43.45	-23.07	-6.77	
LAB*LAB	43.45	-23.07	-6.77	
LAB*LAB	43.45	-23.07	-6.77	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.5	0.25	0.25	(0.0)
olv4*	0.5	0.5	0.5	(1.0)
olv4*	0.5	0.25	0.25	(0.0)
olv5*	0.5	0.5	0.5	(1.0)
olv5*	0.5	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	65.16	-34.61	-10.16	
LAB*LAB	65.16	-34.61	-10.16	
LAB*LAB	65.16	-34.61	-10.16	

relative Inform. Technology (IT)

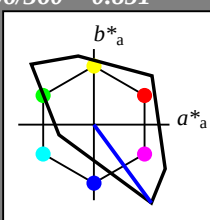
olv3*	0.5	0.5	0.5	(1.0)
olv3*	0.5	0.25	0.25	(0.0)
olv4*	0.5	0.5	0.5	(1.0)
olv4*	0.5	0.25	0.25	(0.0)
olv5*	0.5	0.5	0.5	(1.0)
olv5*	0.5	0.25	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	65.16	-34.61	-10.16	
LAB*LAB	65.16	-34.61	-10.16	
LAB*LAB	65.16	-34.61	-10.16	

LAB*LAB	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*TCHa	0.01	0.01	-
relative CIELAB lab*			
lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-
relative Natural Colour (NC)			
lab*lrj	0.0	0.0	0.0
lab*tep	0.0	0.0	-

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 306/360 = 0.851$
 lab^*tch and lab^*nch

D65: hue V
LCH*Ma: 30 129 306
olv*Ma: 0.0 0.0 1.0
triangle lightness t^*



TLS00; adapted (a) CIELAB data					
	$L^*=L_a^*$	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

%Regularity

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

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

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*TCh 99.99 0.01

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 1.0 0.0 0.0
lab*tce 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*TCh 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*tr 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.830

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 55.31 19.01 -25.88
LAB*Lab 55.31 19.01 -25.88
LAB*TCh 62.5 32.12 306.29

relative CIELAB lab*
lab*lab 0.25 0.25 0.5 (1.0)
lab*tch 0.625 0.25 0.851
lab*nch 0.5 0.25 0.851
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.851
lab*tce 0.625 0.25 0.826
lab*nce 0.5 0.25 0.830

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 31.46 19.01 -25.88
LAB*Lab 31.46 19.01 -25.88
LAB*TCh 37.5 32.12 306.29

relative CIELAB lab*
lab*lab 0.33 0.148 -0.201
lab*tch 0.375 0.25 0.851
lab*nch 0.25 0.25 0.851
relative Natural Colour (NC)
lab*tr 0.33 0.115 -0.221
lab*tce 0.375 0.25 0.826
lab*nce 0.25 0.25 0.830

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 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 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 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 71.57 0.0 0.0
LAB*Lab 71.57 0.0 0.0
LAB*TCh 75.00 0.01

relative CIELAB lab*
lab*lab 0.33 0.148 -0.201
lab*tch 0.375 0.25 0.851
lab*nch 0.25 0.25 0.851
relative Natural Colour (NC)
lab*tr 0.33 0.115 -0.221
lab*tce 0.375 0.25 0.826
lab*nce 0.25 0.25 0.830

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 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 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (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 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 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 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (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 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 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 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 0.0 0.0 (0.0)

NE53-7, 5 step scales for constant CIELAB hue 306/360 = 0.851 (left)

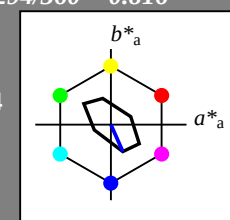
BAM-test chart NE53; Colorimetric systems TLS00 & TLS70

D65: 2 coordinate data of 5 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 294/360 = 0.816$
 lab^*tch and lab^*nch

D65: hue V
LCH*Ma: 72 39 294
olv*Ma: 0.0 0.0 1.0
triangle lightness t^*



TLS70; adapted (a) CIELAB data					
	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	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

%Regularity

$g^*_{H,rel} = 34$

$g^*_{C,rel} = 51$

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*tch 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*tce 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*TCh 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*tr 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.830

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 55.31 19.01 -25.88
LAB*Lab 55.31 19.01 -25.88
LAB*TCh 62.5 32.12 306.29

relative CIELAB lab*
lab*lab 0.25 0.25 0.5 (1.0)
lab*tch 0.625 0.25 0.851
lab*nch 0.5 0.25 0.851
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.851
lab*tce 0.625 0.25 0.826
lab*nce 0.5 0.25 0.830

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 31.46 19.01 -25.88
LAB*Lab 31.46 19.01 -25.88
LAB*TCh 37.5 32.12 306.29

relative CIELAB lab*
lab*lab 0.33 0.148 -0.201
lab*tch 0.375 0.25 0.851
lab*nch 0.25 0.25 0.851
relative Natural Colour (NC)
lab*tr 0.33 0.115 -0.221
lab*tce 0.375 0.25 0.826
lab*nce 0.25 0.25 0.830

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 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 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 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 71.57 0.0 0.0
LAB*Lab 71.57 0.0 0.0
LAB*TCh 75.00 0.01

relative CIELAB lab*
lab*lab 0.33 0.148 -0.201
lab*tch 0.375 0.25 0.851
lab*nch 0.25 0.25 0.851
relative Natural Colour (NC)
lab*tr 0.33 0.115 -0.221
lab*tce 0.375 0.25 0.826
lab*nce 0.25 0.25 0.830

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 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 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (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 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 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 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (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 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 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 0.0 0.0 0.0 (1.0)
lab*tch 0.0 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 0.0 0.0 (0.0)

5 step scales for constant CIELAB hue 294/360 = 0.816 (right)

input: `olv* setrgbcolor`

output: *no change compared to input*

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 328/360 = 0.912$

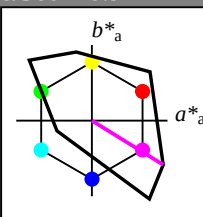
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	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)
olv5*	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*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	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)
olv5*	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	71.57	0.0	0.0

relative CIELAB lab*

lab*lab	0.9	0.176	-0.177
lab*lab	0.875	0.25	0.912
lab*lab	0.875	0.25	0.912

relative Natural Colour (NC)

lab*lab	0.9	0.176	-0.177
lab*lab	0.875	0.25	0.912
lab*lab	0.875	0.25	0.912

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	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)
olv5*	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	47.72	0.0	0.0

relative CIELAB lab*

lab*lab	0.625	0.25	0.912
lab*lab	0.625	0.25	0.912
lab*lab	0.625	0.25	0.912

relative Natural Colour (NC)

lab*lab	0.625	0.25	0.912
lab*lab	0.625	0.25	0.912
lab*lab	0.625	0.25	0.912

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	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)
olv5*	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	47.72	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.5	0.5	(0.0)
lab*lab	0.5	0.5	0.5	(0.0)
lab*lab	0.5	0.5	0.5	(0.0)

relative Natural Colour (NC)

lab*lab	0.5	0.5	0.5	(0.0)
lab*lab	0.5	0.5	0.5	(0.0)
lab*lab	0.5	0.5	0.5	(0.0)

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0

relative CIELAB lab*

lab*lab	0.4	0.213	-0.131
lab*lab	0.375	0.25	0.912
lab*lab	0.375	0.25	0.912

relative Natural Colour (NC)

lab*lab	0.4	0.213	-0.131
lab*lab	0.375	0.25	0.912
lab*lab	0.375	0.25	0.912

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0

relative CIELAB lab*

lab*lab	0.4	0.213	-0.131
lab*lab	0.375	0.25	0.912
lab*lab	0.375	0.25	0.912

relative Natural Colour (NC)

lab*lab	0.4	0.213	-0.131
lab*lab	0.375	0.25	0.912
lab*lab	0.375	0.25	0.912

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	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)
olv5*	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	0.03	0.0	0.0

relative CIELAB lab*

lab*lab	0.15	0.212	-0.131
lab*lab	0.125	0.25	0.912
lab*lab	0.125	0.25	0.912

relative Natural Colour (NC)

lab*lab	0.15	0.212	-0.131
lab*lab	0.125	0.25	0.912
lab*lab	0.125	0.25	0.912

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	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)
olv5*	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	0.03	0.0	0.0

relative CIELAB lab*

lab*lab	0.15	0.212	-0.131
lab*lab	0.125	0.25	0.912
lab*lab	0.125	0.25	0.912

relative Natural Colour (NC)

lab*lab	0.15	0.212	-0.131
lab*lab	0.125	0.25	0.912
lab*lab	0.125	0.25	0.912

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	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)
olv5*	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	0.03	0.0	0.0

relative CIELAB lab*

lab*lab	0.15	0.212	-0.131
lab*lab	0.125	0.25	0.912
lab*lab	0.125	0.25	0.912

relative Natural Colour (NC)

lab*lab	0.15	0.212	-0.131
lab*lab	0.125	0.25	0.912
lab*lab	0.125	0.25	0.912

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	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)
olv5*	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	0.03	0.0	0.0

relative CIELAB lab*

lab*lab	0.15	0.212	-0.131
lab*lab	0.125	0.25	0.912
lab*lab	0.125	0.25	0.912

relative Natural Colour (NC)

lab*lab	0.15	0.212	-0.131
lab*lab	0.125	0.25	0.912
lab*lab	0.125	0.25	0.912

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	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
RC _{IE}	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

% Regularity

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

$g^*_{C,rel} = 27.73$

relative Inform. Technology (IT)

olv3*	1.0	0.5	1.0	(1.0)
olv3*	0.0	0.5	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	1.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	1.0	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	76.35	47.17	-29.19

relative CIELAB lab*

lab*lab	0.8	0.425	-0.262
lab*lab	0.75	0.5	0.912
lab*lab	0.75	0.5	0.912

relative Natural Colour (NC)

lab*lab	0.8	0.425	-0.262
lab*lab	0.75	0.5	0.912
lab*lab	0.75	0.5	0.912

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.75	(1.0)
olv3*	0.25	0.75	0.0	(0.0)
olv4*	1.0	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv5*	1.0	0.5	1.0	(1.0)
olv5*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	52.51	47.18	-29.2
LAB*LAB	52.51	47.18	-29.2
LAB*LAB	52.51	47.18	-29.2

relative CIELAB lab*

lab*lab	0.75	0.0	0.75	(1.0)
lab*lab	0.25	0.75	0.0	(0.0)
lab*lab	0.75	0.0	0.75	(1.0)

relative Natural Colour (NC)

lab*lab	0.75	0.0	0.75	(1.0)
lab*lab	0.25	0.75	0.0	(0.0)
lab*lab	0.75	0.0	0.75	(1.0)

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	1.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	1.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	57.3	94.33	-58.4
LAB*LAB	57.3	94.33	-58.4
LAB*LAB	57.3	94.33	-58.4

relative CIELAB lab*

lab*lab	0.601	0.85	-0.525
lab*lab	0.5	0.912	0.0
lab*lab	0.5	0.912	0.0

relative Natural Colour (NC)

lab*lab	0.601	0.85	-0.525
lab*lab	0.5	0.912	0.0
lab*lab	0.5	0.912	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.5	(1.0)
olv3*	0.5	0.0	0.5	(1.0)
olv4*	1.0	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv5*	1.0	0.5	1.0	(1.0)
olv5*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	42.98	70.25	-43.8
LAB*LAB	42.98	70.25	-43.8
LAB*LAB	42.98	70.25	-43.8

relative CIELAB lab*

lab*lab	0.425	0.638	-0.394
lab*lab	0.375	0.75	0.912
lab*lab	0.375	0.75	0.912

relative Natural Colour (NC)

lab*lab	0.425	0.638	-0.394
lab*lab	0.375	0.75	0.912
lab*lab	0.375	0.75	0.912

6	47.17	-29.19	
1	55.47	328.23	
lab*			
	0.425	-0.262	
	0.5	0.912	
	0.5	0.912	
Colour (NC)			
	0.352	-0.354	
	0.5	0.874	

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 162/360 = 0.451$

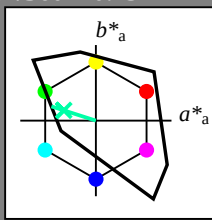
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 86 62 162

olv*Ma: 0.0 1.0 0.65

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0
olv21*	0.0	0.0	0.0
olv22*	0.0	0.0	0.0
olv23*	0.0	0.0	0.0
olv24*	0.0	0.0	0.0
olv25*	0.0	0.0	0.0
olv26*	0.0	0.0	0.0
olv27*	0.0	0.0	0.0
olv28*	0.0	0.0	0.0
olv29*	0.0	0.0	0.0
olv30*	0.0	0.0	0.0
olv31*	0.0	0.0	0.0
olv32*	0.0	0.0	0.0
olv33*	0.0	0.0	0.0
olv34*	0.0	0.0	0.0
olv35*	0.0	0.0	0.0
olv36*	0.0	0.0	0.0
olv37*	0.0	0.0	0.0
olv38*	0.0	0.0	0.0
olv39*	0.0	0.0	0.0
olv40*	0.0	0.0	0.0
olv41*	0.0	0.0	0.0
olv42*	0.0	0.0	0.0
olv43*	0.0	0.0	0.0
olv44*	0.0	0.0	0.0
olv45*	0.0	0.0	0.0
olv46*	0.0	0.0	0.0
olv47*	0.0	0.0	0.0
olv48*	0.0	0.0	0.0
olv49*	0.0	0.0	0.0
olv50*	0.0	0.0	0.0
olv51*	0.0	0.0	0.0
olv52*	0.0	0.0	0.0
olv53*	0.0	0.0	0.0
olv54*	0.0	0.0	0.0
olv55*	0.0	0.0	0.0
olv56*	0.0	0.0	0.0
olv57*	0.0	0.0	0.0
olv58*	0.0	0.0	0.0
olv59*	0.0	0.0	0.0
olv60*	0.0	0.0	0.0
olv61*	0.0	0.0	0.0
olv62*	0.0	0.0	0.0
olv63*	0.0	0.0	0.0
olv64*	0.0	0.0	0.0
olv65*	0.0	0.0	0.0
olv66*	0.0	0.0	0.0
olv67*	0.0	0.0	0.0
olv68*	0.0	0.0	0.0
olv69*	0.0	0.0	0.0
olv70*	0.0	0.0	0.0
olv71*	0.0	0.0	0.0
olv72*	0.0	0.0	0.0
olv73*	0.0	0.0	0.0
olv74*	0.0	0.0	0.0
olv75*	0.0	0.0	0.0
olv76*	0.0	0.0	0.0
olv77*	0.0	0.0	0.0
olv78*	0.0	0.0	0.0
olv79*	0.0	0.0	0.0
olv80*	0.0	0.0	0.0
olv81*	0.0	0.0	0.0
olv82*	0.0	0.0	0.0
olv83*	0.0	0.0	0.0
olv84*	0.0	0.0	0.0
olv85*	0.0	0.0	0.0
olv86*	0.0	0.0	0.0
olv87*	0.0	0.0	0.0
olv88*	0.0	0.0	0.0
olv89*	0.0	0.0	0.0
olv90*	0.0	0.0	0.0
olv91*	0.0	0.0	0.0
olv92*	0.0	0.0	0.0
olv93*	0.0	0.0	0.0
olv94*	0.0	0.0	0.0
olv95*	0.0	0.0	0.0
olv96*	0.0	0.0	0.0
olv97*	0.0	0.0	0.0
olv98*	0.0	0.0	0.0
olv99*	0.0	0.0	0.0
olv100*	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	95.41	0.0	0.0
LAB*LABc	95.41	0.0	0.0
LAB*LABd	95.41	0.0	0.0
LAB*LABe	95.41	0.0	0.0
LAB*LABf	95.41	0.0	0.0
LAB*LABg	95.41	0.0	0.0
LAB*LABh	95.41	0.0	0.0
LAB*LABi	95.41	0.0	0.0
LAB*LABj	95.41	0.0	0.0
LAB*LABk	95.41	0.0	0.0
LAB*LABl	95.41	0.0	0.0
LAB*LABm	95.41	0.0	0.0
LAB*LABn	95.41	0.0	0.0
LAB*LABo	95.41	0.0	0.0
LAB*LABp	95.41	0.0	0.0
LAB*LABq	95.41	0.0	0.0
LAB*LABr	95.41	0.0	0.0
LAB*LABs	95.41	0.0	0.0
LAB*LABt	95.41	0.0	0.0
LAB*LABu	95.41	0.0	0.0
LAB*LABv	95.41	0.0	0.0
LAB*LABw	95.41	0.0	0.0
LAB*LABx	95.41	0.0	0.0
LAB*LABy	95.41	0.0	0.0
LAB*LABz	95.41	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LABa	95.41	0.0	0.0
LAB*LABb	95.41	0.0	0.0
LAB*LABc	95.41	0.0	0.0
LAB*LABd	95.41	0.0	0.0
LAB*LABe	95.41	0.0	0.0
LAB*LABf	95.41	0.0	0.0
LAB*LABg	95.41	0.0	0.0
LAB*LABh	95.41	0.0	0.0
LAB*LABi	95.41	0.0	0.0
LAB*LABj	95.41	0.0	0.0
LAB*LABk	95.41	0.0	0.0
LAB*LABl	95.41	0.0	0.0
LAB*LABm	95.41	0.0	0.0
LAB*LABn	95.41	0.0	0.0
LAB*LABo	95.41	0.0	0.0
LAB*LABp	95.41	0.0	0.0
LAB*LABq	95.41	0.0	0.0
LAB*LABr	95.41	0.0	0.0
LAB*LABs	95.41	0.0	0.0
LAB*LABt	95.41	0.0	0.0
LAB*LABu	95.41	0.0	0.0
LAB*LABv	95.41	0.0	0.0
LAB*LABw	95.41	0.0	0.0
LAB*LABx	95.41	0.0	0.0
LAB*LABy	95.41	0.0	0.0
LAB*LABz	95.41	0.0	0.0

regularity

$\lambda_1 = 20$

