

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 40/360 = 0.111$

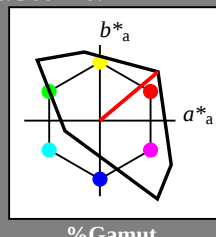
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

triangle lightness 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*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*trj 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*trj 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*trj 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 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
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*trj 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*trj 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 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.5 1.0
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 72.95 38.45 32.27
LAB*LABa 72.95 38.45 32.27
LAB*LABb 75.00 50.2 40.0

relative CIELAB lab*
lab*lab 0.765 0.383 0.321
lab*tch 0.75 0.5 0.111
lab*nch 0.0 0.5 0.111
relative Natural Colour (NC)
lab*trj 0.765 0.471 0.167
lab*tce 0.75 0.5 0.164
lab*nce 0.0 0.5 0.121

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olv4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 49.11 38.46 32.28
LAB*LABa 49.11 38.46 32.28
LAB*LABb 50.00 50.21 40.0

relative CIELAB lab*
lab*lab 0.515 0.383 0.321
lab*tch 0.5 0.5 0.111
lab*nch 0.0 0.5 0.111
relative Natural Colour (NC)
lab*trj 0.515 0.471 0.167
lab*tce 0.5 0.5 0.164
lab*nce 0.0 0.5 0.121

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 0.5
cmyn4* 0.0 0.5 0.5 0.5
standard and adapted CIELAB
LAB*LAB 37.88 57.68 48.41
LAB*LABa 37.88 57.68 48.41
LAB*LABb 37.51 75.3 40.0

relative CIELAB lab*
lab*lab 0.392 0.574 0.482
lab*tch 0.375 0.5 0.111
lab*nch 0.0 0.5 0.111
relative Natural Colour (NC)
lab*trj 0.392 0.707 0.251
lab*tce 0.375 0.5 0.251
lab*nce 0.0 0.5 0.211

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 0.25
cmyn4* 0.0 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 25.26 38.45 32.27
LAB*LABa 25.26 38.45 32.27
LAB*LABb 25.01 50.2 40.0

relative CIELAB lab*
lab*lab 0.265 0.383 0.321
lab*tch 0.25 0.5 0.111
lab*nch 0.0 0.5 0.111
relative Natural Colour (NC)
lab*trj 0.265 0.471 0.167
lab*tce 0.25 0.5 0.164
lab*nce 0.0 0.5 0.121

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 1.0 0.25 0.25 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olv4* 1.0 0.25 0.25 1.0
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 61.72 57.68 48.41
LAB*LABa 61.72 57.68 48.41
LAB*LABb 62.5 75.3 40.0

relative CIELAB lab*
lab*lab 0.647 0.574 0.482
lab*tch 0.625 0.5 0.111
lab*nch 0.0 0.5 0.111
relative Natural Colour (NC)
lab*trj 0.647 0.707 0.251
lab*tce 0.625 0.5 0.251
lab*nce 0.0 0.5 0.211

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.0 (1.0)
cmyn3* 0.25 1.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 50.5 76.9 64.54
LAB*LABa 50.5 76.9 64.54
LAB*LABb 50.0 100.4 40.0

relative CIELAB lab*
lab*lab 0.529 0.766 0.643
lab*tch 0.5 1.0 0.111
lab*nch 0.0 1.0 0.111
relative Natural Colour (NC)
lab*trj 0.529 0.942 0.335
lab*tce 0.5 1.0 0.335
lab*nce 0.0 1.0 0.211

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (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 32.56 38.45 32.27
LAB*LABa 32.56 38.45 32.27
LAB*LABb 32.5 50.2 40.0

relative CIELAB lab*
lab*lab 0.265 0.383 0.321
lab*tch 0.25 0.5 0.111
lab*nch 0.0 0.5 0.111
relative Natural Colour (NC)
lab*trj 0.265 0.471 0.167
lab*tce 0.25 0.5 0.164
lab*nce 0.0 0.5 0.121

$n^* = 0.25$

relative Inform. Technology (IT)
olv3* 1.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 95.05 76.9 64.54
LAB*LABa 95.05 76.9 64.54
LAB*LABb 95.0 100.4 40.0

relative CIELAB lab*
lab*lab 0.529 0.766 0.643
lab*tch 0.5 1.0 0.111
lab*nch 0.0 1.0 0.111
relative Natural Colour (NC)
lab*trj 0.529 0.942 0.335
lab*tce 0.5 1.0 0.335
lab*nce 0.0 1.0 0.211

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (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 82.56 76.9 64.54
LAB*LABa 82.56 76.9 64.54
LAB*LABb 82.5 100.4 40.0

relative CIELAB lab*
lab*lab 0.529 0.766 0.643
lab*tch 0.5 1.0 0.111
lab*nch 0.0 1.0 0.111
relative Natural Colour (NC)
lab*trj 0.529 0.942 0.335
lab*tce 0.5 1.0 0.335
lab*nce 0.0 1.0 0.211

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 61.72 57.68 48.41
LAB*LABa 61.72 57.68 48.41
LAB*LABb 62.5 75.3 40.0

relative CIELAB lab*
lab*lab 0.392 0.574 0.482
lab*tch 0.375 0.5 0.111
lab*nch 0.0 0.5 0.111
relative Natural Colour (NC)
lab*trj 0.392 0.707 0.251
lab*tce 0.375 0.5 0.251
lab*nce 0.0 0.5 0.211

$n^* = 0.00$

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 22/360 = 0.061$

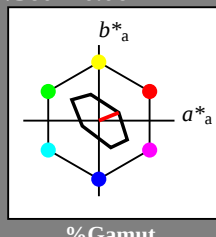
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 76 28 22

olv*Ma: 1.0 0.0 0.0

triangle lightness 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*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*trj 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 88.98 0.0 0.0
LAB*LABa 88.98 0.0 0.0
LAB*LABb 92.50 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*trj 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*trj 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 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
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*trj 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*trj 0.0 0.0 0.0 -
lab*tce 0.0 0.0 0.0 -
lab*nce 1.0 0.0 0.0 -

$n^* = 1.0$

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 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.5 1.0
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 85.92 13.13 5.28
LAB*LABa 85.92 13.13 5.28
LAB*LABb 87.5 7.08 11.92

relative CIELAB lab*
lab*lab 0.815 0.232 0.093
lab*tch 0.875 0.25 0.061
lab*nch 0.0 0.25 0.061
relative Natural Colour (NC)
lab*trj 0.815 0.25 0.011
lab*tce 0.875 0.25 0.092
lab*nce 0.0 0.25 0.096

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.5 (1.0)
cmyn3* 0.25 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 84.24 6.57 2.64
LAB*LABa 84.24 6.57 2.64
LAB*LABb 84.24 14.16 21.92

relative CIELAB lab*
lab*lab 0.631 0.464 0.187
lab*tch 0.75 0.5 0.061
lab*nch 0.0 0.5 0.061
relative Natural Colour (NC)
lab*trj 0.631 0.499 -0.024
lab*tce 0.75 0.5 0.092
lab*nce 0.0 0.5 0.096

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olv4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 79.49 13.14 5.29
LAB*LABa 79.49 13.14 5.29
LAB*LABb 79.49 14.16 21.92

relative CIELAB lab*
lab*lab 0.581 0.464 0.187
lab*tch 0.5 0.5 0.061
lab*nch 0.0 0.5 0.061
relative Natural Colour (NC)
lab*trj 0.581 0.499 -0.024
lab*tce 0.5 0.5 0.092
lab*nce 0.0 0.5 0.096

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 1.0 0.5 0.5 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 61.72 57.68 48.41
LAB*LABa 61.72 57.68 48.41
LAB*LABb 62.5 75.3 40.0

relative CIELAB lab*
lab*lab 0.315 0.232 0.093
lab*tch 0.375 0.25 0.061
lab*nch 0.0 0.25 0.061
relative Natural Colour (NC)
lab*trj 0.315 0.25 0.011
lab*tce 0.375 0.25 0.092
lab*nce 0.0 0.25 0.096

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olv4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 74.29 19.7 7.93
LAB*LABa 74.29 19.7 7.9

Input: Colorimetric Television Luminous System TLS00

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

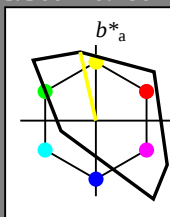
lab^*tch and lab^*nch

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)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	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
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	94.71	-5.16	22.68
LAB*LAB	94.71	-5.16	22.68
LAB*LAB	94.71	-5.16	22.68
LAB*LAB	94.71	-5.16	22.68

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	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
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	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
LAB*LAB	95.41	0.0	0.0

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

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

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

1.00

0.75

$n^* = 0.00$

0.25

1.00

chromaticness c^*

Output: Colorimetric Television Luminous System TLS70

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

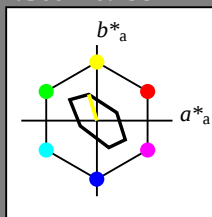
lab^*tch and lab^*nch

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)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	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
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	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
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	0.0	0.0	0.0
lab*trj	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
LAB*LAB	95.41	0.0	0.0

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

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

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

1.00

0.75

$n^* = 0.00$

0.25

1.00

chromaticness c^*

NE53-7, 5 step scales for constant CIELAB hue 103/360 = 0.286 (left)

5 step scales for constant CIELAB hue 107/360 = 0.298 (right)

BAM-test chart NE53; Colorimetric systems TLS00 & TLS70

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

input: $olv^* setrgbcolor$

output: no change compared to input

Input: Colorimetric Television Luminous System TLS00

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

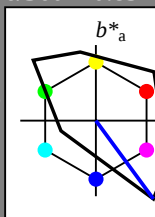
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 30 129 306

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	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	
LAB*LAB	95.41	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	0.75	0.75	0.75	(1.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(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	
LAB*LAB	71.57	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	0.75	0.75	0.75	(1.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(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	
LAB*LAB	71.57	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	0.75	0.75	0.75	(1.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(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	
LAB*LAB	71.57	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	0.75	0.75	0.75	(1.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(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	
LAB*LAB	71.57	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	0.75	0.75	0.75	(1.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(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	
LAB*LAB	71.57	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	0.75	0.75	0.75	(1.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(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	
LAB*LAB	71.57	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	0.75	0.75	0.75	(1.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(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	
LAB*LAB	71.57	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	0.75	0.75	0.75	(1.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(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	
LAB*LAB	71.57	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(0.0)
olvi4*	0.75	0.75	0.75	(1.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(0.0)
olvi4*	0.25	0.25	0.25	(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	
LAB*LAB	71.57	0.0	0.0	

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)

olvi3*	0.5	0.5	1.0	(1.0)
olvi3*	0.25	0.25	0.5	(0.0)
olvi4*	0.5	0.5	1.0	(1.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	1.0	(1.0)
olvi3*	0.25	0.25	0.5	(0.0)
olvi4*	0.5	0.5	1.0	(1.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	1.0	(1.0)
olvi3*	0.25	0.25	0.5	(0.0)
olvi4*	0.5	0.5	1.0	(1.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	1.0	(1.0)
olvi3*	0.25	0.25	0.5	(0.0)
olvi4*	0.5	0.5	1.0	(1.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	1.0	(1.0)
olvi3*	0.25	0.25	0.5	(0.0)
olvi4*	0.5	0.5	1.0	(1.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	1.0	(1.0)
olvi3*	0.25	0.25	0.5	(0.0)
olvi4*	0.5	0.5	1.0	(1.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	1.0	(1.0)
olvi3*	0.25	0.25	0.5	(0.0)
olvi4*	0.5	0.5	1.0	(1.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	1.0	(1.0)
olvi3*	0.25	0.25	0.5	(0.0)
olvi4*	0.5	0.5	1.0	(1.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
olvi4*	0.25	0.25	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	
LAB*LAB	62.9	38.02	-51.78	

Output: Colorimetric Television Luminous System TLS70

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

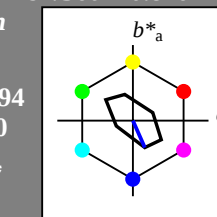
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 72 39 294

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi4*	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	
LAB*LAB	95.41	0.0	0.0	

relative Inform. Technology (IT)				
olvi3*	0.75	0.75	1.0	(1.0)
cmyn3*	0.25	0.25	0.0	(0.0)
olvi4*	0.75	0.75	1.0	1.0
cmyn4*	0.25	0.25	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	89.58	3.94	-8.9	
LAB*LAB _a	89.58	3.94	-8.9	
LAB*TCU _a	87.5	9.74	29.3	

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 92/360 = 0.256$

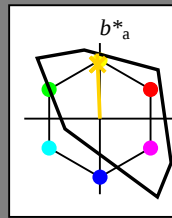
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0

triangle lightness t^*



$u^*_{rel} = 158$

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

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

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

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 92/360 = 0.256$

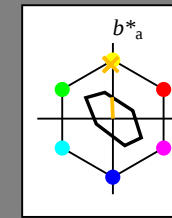
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness t^*



$u^*_{rel} = 16$

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*TCMa	99.99 0.01 -

relative Inform. Technology (IT)	
olv3*	1.0 0.956 0.75 (1.0)
cmyn3*	0.0 0.044 0.25 (0.0)
olv4*	1.0 0.956 0.75 (1.0)
cmyn4*	0.0 0.044 0.25 (0.0)
standard and adapted CIELAB	
LAB*LAB	92.86 -0.87 21.53
LAB*Lab	92.86 -0.87 21.53
LAB*TCMa	97.5 21.54 92.33

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

relative Inform. Technology (IT)	
olv3*	1.0 0.868 0.25 (1.0)
cmyn3*	0.0 0.132 0.25 (0.0)
olv4*	1.0 0.868 0.25 (1.0)
cmyn4*	0.0 0.132 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*TCMa	75.0 0.0 -

relative Inform. Technology (IT)	
olv3*	1.0 0.824 0.0 (1.0)
cmyn3*	0.0 0.176 0.0 (0.0)
olv4*	1.0 0.824 0.0 (1.0)
cmyn4*	0.0 0.176 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	85.22 -3.47 86.11
LAB*Lab	85.22 -3.47 86.11
LAB*TCMa	50.0 86.18 92.32

relative Inform. Technology (IT)	
olv3*	1.0 0.775 0.0 (1.0)
cmyn3*	0.0 0.225 0.0 (0.0)
olv4*	1.0 0.775 0.0 (1.0)
cmyn4*	0.0 0.225 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	82.56 0.0 0.0
LAB*Lab	82.56 0.0 0.0
LAB*TCMa	50.0 0.0 -

relative Inform. Technology (IT)	
olv3*	1.0 0.725 0.0 (1.0)
cmyn3*	0.0 0.275 0.0 (0.0)
olv4*	1.0 0.725 0.0 (1.0)
cmyn4*	0.0 0.275 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	79.99 0.0 0.0
LAB*Lab	79.99 0.0 0.0
LAB*TCMa	50.0 0.0 -

relative Inform. Technology (IT)	
olv3*	1.0 0.675 0.0 (1.0)
cmyn3*	0.0 0.325 0.0 (0.0)
olv4*	1.0 0.675 0.0 (1.0)
cmyn4*	0.0 0.325 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	77.48 0.0 0.0
LAB*Lab	77.48 0.0 0.0
LAB*TCMa	50.0 0.0 -

relative Inform. Technology (IT)	
olv3*	1.0 0.625 0.0 (1.0)
cmyn3*	0.0 0.375 0.0 (0.0)
olv4*	1.0 0.625 0.0 (1.0)
cmyn4*	0.0 0.375 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	74.97 0.0 0.0
LAB*Lab	74.97 0.0 0.0
LAB*TCMa	50.0 0.0 -

relative Inform. Technology (IT)	
olv3*	1.0 0.575 0.0 (1.0)
cmyn3*	0.0 0.425 0.0 (0.0)
olv4*	1.0 0.575 0.0 (1.0)
cmyn4*	0.0 0.425 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	72.46 0.0 0.0
LAB*Lab	72.46 0.0 0.0
LAB*TCMa	50.0 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*TCMa	75.0 0.01 -

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	69.01 -0.86 21.53
LAB*Lab	69.01 -0.86 21.53
LAB*TCMa	62.5 21.55 92.31

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

relative Inform. Technology (IT)	
olv3*	0.75 0.618 0.0 (1.0)
cmyn3*	0.25 0.382 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	63.92 -2.6 64.59
LAB*Lab	63.92 -2.6 64.59
LAB*TCMa	37.51 64.64 92.31

relative Inform. Technology (IT)	
olv3*	0.75 0.575 0.0 (1.0)
cmyn3*	0.25 0.425 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	61.39 -3.47 86.11
LAB*Lab	61.39 -3.47 86.11
LAB*TCMa	37.51 86.18 92.32

relative Inform. Technology (IT)	
olv3*	0.75 0.532 0.0 (1.0)
cmyn3*	0.25 0.475 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	58.91 0.0 0.0
LAB*Lab	58.91 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.488 0.0 (1.0)
cmyn3*	0.25 0.525 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	56.42 0.0 0.0
LAB*Lab	56.42 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.444 0.0 (1.0)
cmyn3*	0.25 0.575 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	53.93 0.0 0.0
LAB*Lab	53.93 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.400 0.0 (1.0)
cmyn3*	0.25 0.625 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	51.44 0.0 0.0
LAB*Lab	51.44 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.356 0.0 (1.0)
cmyn3*	0.25 0.675 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	48.95 0.0 0.0
LAB*Lab	48.95 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.312 0.0 (1.0)
cmyn3*	0.25 0.725 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	46.47 0.0 0.0
LAB*Lab	46.47 0.0 0.0
LAB*TCMa	37.51 0.01 -

relative Inform. Technology (IT)	
olv3*	0.75 0.268 0.0 (1.0)
cmyn3*	0.25 0.775 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	44.01 -0.86 21.53
LAB*Lab	44.01 -0.86 21.53
LAB*TCMa	37.5 21.55 92.31

relative Inform. Technology (IT)	
olv3*	0.75 0.225 0.0 (1.0)
cmyn3*	0.25 0.825 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	41.52 -1.73 43.06
LAB*Lab	41.52 -1.73 43.06
LAB*TCMa	37.51 43.1 92.31

relative Inform. Technology (IT)	
olv3*	0.75 0.182 0.0 (1.0)
cmyn3*	0.25 0.875 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	39.03 0.0 0.0
LAB*Lab	39.03 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.138 0.0 (1.0)
cmyn3*	0.25 0.925 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	36.54 0.0 0.0
LAB*Lab	36.54 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.094 0.0 (1.0)
cmyn3*	0.25 0.975 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	34.05 0.0 0.0
LAB*Lab	34.05 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.050 0.0 (1.0)
cmyn3*	0.25 1.025 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	31.56 0.0 0.0
LAB*Lab	31.56 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.006 0.0 (1.0)
cmyn3*	0.25 1.075 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	29.07 0.0 0.0
LAB*Lab	29.07 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.002 0.0 (1.0)
cmyn3*	0.25 1.125 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	26.58 0.0 0.0
LAB*Lab	26.58 0.0 0.0
LAB*TCMa	37.51 0.0 -

relative Inform. Technology (IT)	
olv3*	0.75 0.000 0.0 (1.0)
cmyn3*	0.25 1.175 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	24.09 0.0 0.0
LAB*Lab	24.09 0.0 0.0
LAB*TCMa	37.51 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	47.72 0.0 0.0
LAB*Lab	47.72 0.0 0.0
LAB*TCMa	50.0 0.01 -

relative Inform. Technology (IT)	
olv3*	0.5 0.456 0.25 (1.0)

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 272/360 = 0.755$

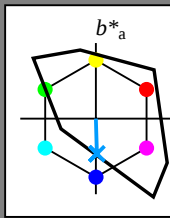
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 65 49 272

olv*Ma: 0.0 0.61 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)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.903	1.0	(1.0)
olv3*	0.0	0.097	0.0	(0.0)
olv4*	0.75	0.903	1.0	(1.0)
olv4*	0.0	0.097	0.0	(0.0)
cmyn3*	0.25	0.097	0.0	0.0
LAB*LAB	87.77	0.36	-12.14	0.0
LAB*LAB	87.77	0.36	-12.14	0.0
LAB*LAB	87.77	0.36	-12.14	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.195	0.0	0.0
olv3*	0.0	0.195	0.0	0.0
olv4*	0.5	0.195	0.0	0.0
olv4*	0.0	0.195	0.0	0.0
cmyn3*	0.0	0.195	0.0	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.805	1.0	(1.0)
olv3*	0.0	0.195	0.0	(0.0)
olv4*	0.5	0.805	1.0	(1.0)
olv4*	0.0	0.195	0.0	(0.0)
cmyn3*	0.0	0.195	0.0	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.61	1.0	(1.0)
olv3*	0.0	0.61	1.0	(1.0)
olv4*	0.0	0.61	1.0	(1.0)
olv4*	0.0	0.61	1.0	(1.0)
cmyn3*	0.0	0.61	1.0	(1.0)
LAB*LAB	88.98	0.0	0.0	0.0
LAB*LAB	88.98	0.0	0.0	0.0
LAB*LAB	88.98	0.0	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)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	71.57	0.0	0.0	0.0
LAB*LAB	71.57	0.0	0.0	0.0
LAB*LAB	71.57	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.633	0.75	(1.0)
olv3*	0.0	0.367	0.25	(0.0)
olv4*	0.75	0.903	1.0	(1.0)
olv4*	0.0	0.097	0.0	(0.0)
cmyn3*	0.25	0.097	0.0	0.0
LAB*LAB	63.92	0.37	-12.15	0.0
LAB*LAB	63.92	0.37	-12.15	0.0
LAB*LAB	63.92	0.37	-12.15	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.805	0.75	(1.0)
olv3*	0.0	0.195	0.25	(0.0)
olv4*	0.75	0.903	1.0	(1.0)
olv4*	0.0	0.097	0.0	(0.0)
cmyn3*	0.25	0.097	0.0	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.458	0.75	(1.0)
olv3*	0.0	0.458	0.75	(1.0)
olv4*	0.25	0.708	1.0	(1.0)
olv4*	0.0	0.292	0.0	(0.0)
cmyn3*	0.0	0.292	0.0	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.61	1.0	(1.0)
olv3*	0.0	0.61	1.0	(1.0)
olv4*	0.25	0.708	1.0	(1.0)
olv4*	0.0	0.292	0.0	(0.0)
cmyn3*	0.0	0.292	0.0	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	47.72	0.0	0.0	0.0
LAB*LAB	47.72	0.0	0.0	0.0
LAB*LAB	47.72	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.25	0.603	0.5	(1.0)
olv3*	0.0	0.397	0.5	(0.0)
olv4*	0.75	0.903	1.0	(1.0)
olv4*	0.0	0.097	0.0	(0.0)
cmyn3*	0.25	0.097	0.0	0.0
LAB*LAB	63.92	0.37	-12.15	0.0
LAB*LAB	63.92	0.37	-12.15	0.0
LAB*LAB	63.92	0.37	-12.15	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.805	0.5	(1.0)
olv3*	0.0	0.195	0.5	(0.0)
olv4*	0.75	0.903	1.0	(1.0)
olv4*	0.0	0.097	0.0	(0.0)
cmyn3*	0.25	0.097	0.0	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.458	0.5	(1.0)
olv3*	0.0	0.458	0.5	(1.0)
olv4*	0.25	0.708	1.0	(1.0)
olv4*	0.0	0.292	0.0	(0.0)
cmyn3*	0.0	0.292	0.0	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.61	1.0	(1.0)
olv3*	0.0	0.61	1.0	(1.0)
olv4*	0.25	0.708	1.0	(1.0)
olv4*	0.0	0.292	0.0	(0.0)
cmyn3*	0.0	0.292	0.0	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	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)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	23.87	0.0	0.0	0.0
LAB*LAB	23.87	0.0	0.0	0.0
LAB*LAB	23.87	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.597	0.5	(1.0)
olv3*	0.0	0.403	0.5	(0.0)
olv4*	0.75	0.903	1.0	(1.0)
olv4*	0.0	0.097	0.0	(0.0)
cmyn3*	0.25	0.097	0.0	0.0
LAB*LAB	40.07	0.37	-12.15	0.0
LAB*LAB	40.07	0.37	-12.15	0.0
LAB*LAB	40.07	0.37	-12.15	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.805	0.5	(1.0)
olv3*	0.0	0.195	0.5	(0.0)
olv4*	0.75	0.903	1.0	(1.0)
olv4*	0.0	0.097	0.0	(0.0)
cmyn3*	0.25	0.097	0.0	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.458	0.5	(1.0)
olv3*	0.0	0.458	0.5	(1.0)
olv4*	0.25	0.708	1.0	(1.0)
olv4*	0.0	0.292	0.0	(0.0)
cmyn3*	0.0	0.292	0.0	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.61	1.0	(1.0)
olv3*	0.0	0.61	1.0	(1.0)
olv4*	0.25	0.708	1.0	(1.0)
olv4*	0.0	0.292	0.0	(0.0)
cmyn3*	0.0	0.292	0.0	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(1.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	0.03	0.0	0.0	0.0
LAB*LAB	0.03	0.0	0.0	0.0
LAB*LAB	0.03	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.17	0.008	-0.249
olv3*	0.0	0.17	0.008	-0.249
olv4*	0.25	0.25	0.25	0.755
olv4*	0.0	0.25	0.25	0.755
cmyn3*	0.0	0.25	0.25	0.755
LAB*LAB	16.22	0.37	-12.15	0.0
LAB*LAB	16.22	0.37	-12.15	0.0
LAB*LAB	16.22	0.37	-12.15	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.305	0.5	(1.0)
olv3*	0.0	0.305	0.5	(1.0)
olv4*	0.25	0.708	1.0	(1.0)
olv4*	0.0	0.292	0.0	(0.0)
cmyn3*	0.0	0.292	0.0	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.805	0.5	(1.0)
olv3*	0.0	0.195	0.5	(0.0)
olv4*	0.75	0.903	1.0	(1.0)
olv4*	0.0	0.097	0.0	(0.0)
cmyn3*	0.25	0.097	0.0	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0
LAB*LAB	80.13	0.73	-24.31	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.458	0.5	(1.0)
olv3*	0.0	0.458	0.5	(1.0)
olv4*	0.25	0.708	1.0	(1.0)
olv4*	0.0	0.292	0.0	(0.0)
cmyn3*	0.0	0.292	0.0	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

olv3*	0.0	0.17	0.008	-0.249
olv3*	0.0	0.17	0.008	-0.249
olv4*	0.25	0.25	0.25	0.755
olv4*	0.0	0.25	0.25	0.755
cmyn3*	0.0	0.25	0.25	0.755
LAB*LAB	16.22	0.37	-12.15	0.0
LAB*LAB	16.22	0.37	-12.15	0.0
LAB*LAB	16.22	0.37	-12.15	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.305	0.5	(1.0)
olv3*	0.0	0.305	0.5	(1.0)
olv4*	0.25	0.708	1.0	(1.0)
olv4*	0.0	0.292	0.0	(0.0)
cmyn3*	0.0	0.292	0.0	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0
LAB*LAB	72.49	0.1	-36.47	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.805	0.5	(1.0)
olv3*	0.0	0.195	0.5	(0.0)