

Input: Colorimetric Television Luminous System TLS00

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

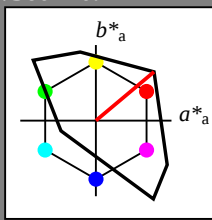
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



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)
cmv3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 1.0 (1.0)
cmv4*	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*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*	1.0 0.75 0.75 (1.0)
cmv3*	0.0 0.25 0.25 (0.0)
olv4*	1.0 0.75 0.75 (1.0)
cmv4*	0.0 0.25 0.25 (0.0)
standard and adapted CIELAB	
LAB*LAB	84.18 19.22 16.13
LAB*Lab	84.18 19.22 16.13
LAB*TCh	97.5 25.09 40.0
relative CIELAB lab*	
lab*lab	0.882 0.191 0.161
lab*tch	0.875 0.25 0.111
lab*nch	0.0 0.25 0.111
relative Natural Colour (NC)	
lab*trj	0.882 0.235 0.084
lab*tce	0.875 0.25 0.054
lab*nce	0.0 0.25 0.121

relative Inform. Technology (IT)	
olv3*	1.0 0.5 0.5 (1.0)
cmv3*	0.0 0.5 0.5 (0.0)
olv4*	1.0 0.5 0.5 (1.0)
cmv4*	0.0 0.5 0.5 (0.0)
standard and adapted CIELAB	
LAB*LAB	72.95 38.45 32.27
LAB*Lab	72.95 38.45 32.27
LAB*TCh	75.0 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 0.054
lab*nce	0.0 0.5 0.121

relative Inform. Technology (IT)	
olv3*	1.0 0.25 0.25 (1.0)
cmv3*	0.0 0.75 0.75 (0.0)
olv4*	1.0 0.25 0.25 (1.0)
cmv4*	0.0 0.75 0.75 (0.0)
standard and adapted CIELAB	
LAB*LAB	61.72 57.68 48.41
LAB*Lab	61.72 57.68 48.41
LAB*TCh	62.5 75.3 40.0
relative CIELAB lab*	
lab*lab	0.647 0.574 0.482
lab*tch	0.625 0.75 0.111
lab*nch	0.0 0.75 0.111
relative Natural Colour (NC)	
lab*trj	0.647 0.707 0.251
lab*tce	0.625 0.75 0.054
lab*nce	0.0 0.75 0.121

relative Inform. Technology (IT)	
olv3*	1.0 0.0 1.0 (0.0)
cmv3*	0.0 1.0 0.0 (0.0)
olv4*	1.0 0.0 1.0 (0.0)
cmv4*	0.0 1.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	50.5 76.9 64.54
LAB*Lab	50.5 76.9 64.54
LAB*TCh	50.0 100.4 40.0
relative CIELAB lab*	
lab*lab	0.569 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 0.121
lab*nce	0.0 1.0 0.121

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.25$

$n^* = 1.50$

$n^* = 1.75$

$n^* = 2.00$

$n^* = 2.25$

$n^* = 2.50$

$n^* = 2.75$

$n^* = 3.00$

$n^* = 3.25$

$n^* = 3.50$

$n^* = 3.75$

$n^* = 4.00$

$n^* = 4.25$

$n^* = 4.50$

$n^* = 4.75$

$n^* = 5.00$

$n^* = 5.25$

$n^* = 5.50$

$n^* = 5.75$

$n^* = 6.00$

$n^* = 6.25$

$n^* = 6.50$

$n^* = 6.75$

$n^* = 7.00$

$n^* = 7.25$

$n^* = 7.50$

$n^* = 7.75$

$n^* = 8.00$

$n^* = 8.25$

$n^* = 8.50$

$n^* = 8.75$

$n^* = 9.00$

$n^* = 9.25$

$n^* = 9.50$

$n^* = 9.75$

$n^* = 10.00$

$n^* = 10.25$

$n^* = 10.50$

$n^* = 10.75$

$n^* = 11.00$

$n^* = 11.25$

$n^* = 11.50$

$n^* = 11.75$

$n^* = 12.00$

$n^* = 12.25$

$n^* = 12.50$

$n^* = 12.75$

$n^* = 13.00$

$n^* = 13.25$

$n^* = 13.50$

$n^* = 13.75$

$n^* = 14.00$

$n^* = 14.25$

$n^* = 14.50$

$n^* = 14.75$

$n^* = 15.00$

$n^* = 15.25$

$n^* = 15.50$

$n^* = 15.75$

$n^* = 16.00$

$n^* = 16.25$

$n^* = 16.50$

$n^* = 16.75$

$n^* = 17.00$

$n^* = 17.25$

$n^* = 17.50$

$n^* = 17.75$

$n^* = 18.00$

$n^* = 18.25$

$n^* = 18.50$

$n^* = 18.75$

$n^* = 19.00$

$n^* = 19.25$

$n^* = 19.50$

$n^* = 19.75$

$n^* = 20.00$

$n^* = 20.25$

$n^* = 20.50$

$n^* = 20.75$

$n^* = 21.00$

$n^* = 21.25$

$n^* = 21.50$

$n^* = 21.75$

$n^* = 22.00$

$n^* = 22.25$

$n^* = 22.50$

$n^* = 22.75$

$n^* = 23.00$

$n^* = 23.25$

$n^* = 23.50$

$n^* = 23.75$

$n^* = 24.00$

$n^* = 24.25$

$n^* = 24.50$

$n^* = 24.75$

$n^* = 25.00$

$n^* = 25.25$

$n^* = 25.50$

$n^* = 25.75$

$n^* = 26.00$

$n^* = 26.25$

$n^* = 26.50$

$n^* = 26.75$

$n^* = 27.00$

$n^* = 27.25$

$n^* = 27.50$

$n^* = 27.75$

$n^* = 28.00$

$n^* = 28.25$

$n^* = 28.50$

$n^* = 28.75$

$n^* = 29.00$

$n^* = 29.25$

$n^* = 29.50$

$n^* = 29.75$

$n^* = 30.00$

$n^* = 30.25$

$n^* = 30.50$

$n^* = 30.75$

$n^* = 31.00$

$n^* = 31.25$

$n^* = 31.50$

$n^* = 31.75$

$n^* = 32.00$

$n^* = 32.25$

$n^* = 32.50$

$n^* = 32.75$

$n^* = 33.00$

$n^* = 33.25$

$n^* = 33.50$

$n^* = 33.75$

$n^* = 34.00$

$n^* = 34.25$

$n^* = 34.50$

$n^* = 34.75$

$n^* = 35.00$

$n^* = 35.25$

$n^* = 35.50$

$n^* = 35.75$

$n^* = 36.00$

$n^* = 36.25$

$n^* = 36.50$

$n^* = 36.75$

$n^* = 37.00$

$n^* = 37.25$

$n^* = 37.50$

$n^* = 37.75$

$n^* = 38.00$

$n^* = 38.25$

$n^* = 38.50$

$n^* = 38.75$

$n^* = 39.00$

$n^* = 39.25$

$n^* = 39.50$

$n^* = 39.75$

$n^* = 40.00$

$n^* = 40.25$

$n^* = 40.50$

$n^* = 40.75$

$n^* = 41.00$

$n^* = 41.25$

$n^* = 41.50$

$n^* = 41.75$

$n^* = 42.00$

$n^* = 42.25$

$n^* = 42.50$

Input: Colorimetric Television Luminous System TLS00

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

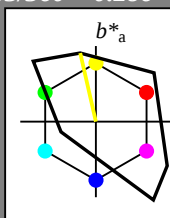
lab^*tch and lab^*nch

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)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
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*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)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	71.57	0.0	0.0
LAB*LABa	71.57	0.0	0.0
LAB*LABb	75.00	0.01	0.0

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	0.25	0.25	0.25	(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	0.25	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(0.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LABa	47.72	0.0	0.0
LAB*LABb	50.00	0.01	0.0

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	0.5	0.5	0.5	(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	0.5	0.5	0.5	(0.0)

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	23.87	0.0	0.0
LAB*LABa	23.87	0.0	0.0
LAB*LABb	25.00	0.01	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	0.25	0.25	0.25	(1.0)
lab*tce	0.25	0.25	0.25	(1.0)
lab*nce	0.75	0.75	0.75	(0.0)

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*LABb	0.00	0.01	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	(1.0)
lab*tch	0.0	0.0	0.0	(1.0)
lab*nch	1.0	1.0	1.0	(0.0)

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0	(1.0)
lab*tce	0.0	0.0	0.0	(1.0)
lab*nce	1.0	1.0	1.0	(0.0)

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.0	0.0	0.0
LAB*LABa	0.0	0.0	0.0
LAB*LABb	0.00	0.01	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	(1.0)
lab*tch	0.0	0.0	0.0	(1.0)
lab*nch	1.0	1.0	1.0	(0.0)

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0	(1.0)
lab*tce	0.0	0.0	0.0	(1.0)
lab*nce	1.0	1.0	1.0	(0.0)

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

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*	1.0	1.0	0.5	(1.0)
cmyn3*	0.0	0.0	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	94.03	-10.34	45.37
LAB*LABa	94.03	-10.34	45.37
LAB*LABb	75.0	46.53	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*trj	0.985	-0.116	0.486
lab*tce	0.75	0.5	0.286
lab*nce	0.0	0.5	0.286

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.25	(1.0)
cmyn3*	0.25	0.25	0.75	(0.0)
olvi4*	1.0	1.0	0.5	(1.0)
cmyn4*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	70.19	-10.34	45.38
LAB*LABa	70.19	-10.34	45.38
LAB*LABb	50.0	46.54	102.85

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	0.75	0.75	0.25	(1.0)
lab*tce	0.75	0.75	0.25	(1.0)
lab*nce	0.25	0.25	0.75	(0.0)

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.0	(1.0)
cmyn3*	0.5	0.5	0.0	(0.0)
olvi4*	1.0	1.0	0.5	(1.0)
cmyn4*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	46.34	-10.34	45.37
LAB*LABa	46.34	-10.34	45.37
LAB*LABb	25.01	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*trj	0.486	-0.116	0.486
lab*tce	0.25	0.5	0.286
lab*nce	0.0	0.5	0.286

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.0	(1.0)
cmyn3*	0.75	0.75	0.0	(0.0)
olvi4*	1.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	23.17	-10.34	45.37
LAB*LABa	23.17	-10.34	45.37
LAB*LABb	12.5	46.53	102.85

relative CIELAB lab*

lab*lab	0.243	-0.055	0.244
lab*tch	0.125	0.25	0.286
lab*nch	0.0	0.25	0.286

relative Natural Colour (NC)

lab*trj	0.243	-0.055	0.243
lab*tce	0.125	0.25	0.286
lab*nce	0.0	0.25	0.286

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	0.0	(0.0)
olvi4*	1.0	1.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.0	0.0	0.0
LAB*LABa	0.0	0.0	0.0
LAB*LABb	0.00	0.01	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	(1.0)
lab*tch	0.0	0.0	0.0	(1.0)
lab*nch	1.0	1.0	1.0	(0.0)

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0	(1.0)
lab*tce	0.0	0.0	0.0	(1.0)
lab*nce	1.0	1.0	1.0	(0.0)

blackness $n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness c^*

Output: Colorimetric Television Luminous System TLS70

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

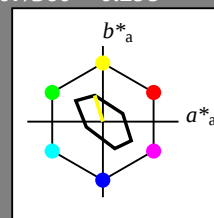
lab^*tch and lab^*nch

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)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
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*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)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LABa	88.98	0.0	0.0
LAB*LABb	75.00	0.0	0.0

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	0.25	0.25	0.25	(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	0.25	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(0.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	92.65	-20.69	90.73
LAB*LABa	92.65	-20.69	90.73
LAB*LABb	50.0	93.06	102.85

relative CIELAB lab*

lab*lab	0.971	-0.221	0.975
lab*tch	0.75	0.5	0.286
lab*nch	0.0	0.5	0.286

relative Natural Colour (NC)

lab*trj	0.971	-0.233	0.972
lab*tce	0.75	0.5	0.286
lab*nce	0.0	0.5	0.286

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	70.19	-10.34	45.38
LAB*LABa	70.19	-10.34	45.38
LAB*LABb	50.0	93.06	102.85

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.0	(1.0)
cmyn3*	0.75	0.75	1.0	(0.0)
olvi4*	1.0	1.0	0.75	0.25
cmyn4*	0.0	0.0	0.25	0.75

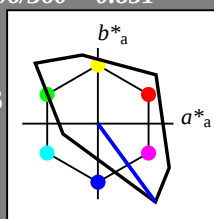
standard and adapted CIELAB

LAB*LAB	75.76	-2.68	8.65
LAB*LABa	75.76	-2.68	8.65
LAB*LABb	15.7	0.26	0.25

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*Ch 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* 0.75 0.75 0.75 (1.0)
cmyn4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 79.15 19.01 -25.88
LAB*Lab 79.15 19.01 -25.88
LAB*Ch 87.5 32.12 306.29

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* 0.75 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*Lab 71.57 0.0 0.0
LAB*Ch 75.0 0.01

relative CIELAB lab*
lab*lab 0.75 0.25 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.25 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 0.25 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 1.0
cmyn4* 0.5 0.5 0.5 0.0
standard and adapted CIELAB
LAB*LAB 62.9 38.02 -51.78
LAB*Lab 62.9 38.02 -51.78
LAB*Ch 75.0 64.25 306.29

relative CIELAB lab*
lab*lab 0.659 0.296 -0.402
lab*tch 0.75 0.5 0.851
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*tr 0.659 0.23 -0.443
lab*tce 0.75 0.5 0.826
lab*nce 0.0 0.5 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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*Lab 47.72 0.0 0.0
LAB*Ch 50.0 0.01

relative CIELAB lab*
lab*lab 0.5 0.148 -0.201
lab*tch 0.625 0.25 0.851
lab*nch 0.25 0.25 0.851
relative Natural Colour (NC)
lab*tr 0.58 0.115 -0.221
lab*tce 0.625 0.25 0.826
lab*nce 0.25 0.25 0.830

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.25 (0.0)
olv4* 0.5 0.5 0.5 1.0
cmyn4* 0.5 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 39.05 38.03 -51.79
LAB*Lab 39.05 38.03 -51.79
LAB*Ch 50.0 64.26 306.29

relative CIELAB lab*
lab*lab 0.489 0.444 -0.603
lab*tch 0.625 0.75 0.851
lab*nch 0.0 0.75 0.851
relative Natural Colour (NC)
lab*tr 0.489 0.344 -0.665
lab*tce 0.625 0.75 0.826
lab*nce 0.0 0.75 0.830

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 31.46 19.01 -25.89
LAB*Lab 31.46 19.01 -25.89
LAB*Ch 37.5 32.13 306.29

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 0.0 (0.0)
olv4* 0.5 0.5 0.5 1.0
cmyn4* 0.5 0.5 0.5 0.5
standard and adapted CIELAB
LAB*LAB 15.21 38.02 -51.78
LAB*Lab 15.21 38.02 -51.78
LAB*Ch 25.01 64.25 306.29

relative CIELAB lab*
lab*lab 0.139 0.296 -0.402
lab*tch 0.25 0.5 0.851
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*tr 0.139 0.23 -0.443
lab*tce 0.25 0.5 0.826
lab*nce 0.0 0.5 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* 0.0 0.0 0.0 0.0
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*Ch 0.0 0.0 0.0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

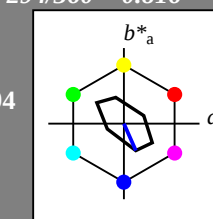
relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*Ch 0.0 0.0 0.0

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

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*Ch 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* 0.75 0.75 0.75 (1.0)
cmyn4* 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*Ch 95.0 0.01

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.25 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 0.25 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 88.98 0.0 0.0
LAB*Lab 88.98 0.0 0.0
LAB*Ch 95.0 0.01

relative CIELAB lab*
lab*lab 0.5 0.25 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.25 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.5 0.25 0.0
lab*tce 0.5 0.25 0.0
lab*nce 0.25 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.25 (0.0)
olv4* 0.5 0.5 0.5 1.0
cmyn4* 0.5 0.5 0.5 0.5
standard and adapted CIELAB
LAB*LAB 73.78 7.88 -17.81
LAB*Lab 73.78 7.88 -17.81
LAB*Ch 50.0 19.48 293.86

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

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

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

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

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

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

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

Input: Colorimetric Television Luminous System TLS00

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

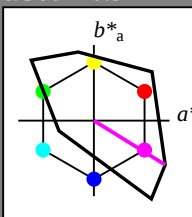
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 57 111 328

ol v^* Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

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
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

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

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

relative Inform. Technology (IT)	
ol v^*_3	1.0 1.0 1.0 (1.0)
ol v^*_4	0.0 0.0 0.0 (0.0)
ol v^*_5	1.0 1.0 1.0 (1.0)
ol v^*_6	0.0 0.0 0.0 (0.0)
ol v^*_7	1.0 1.0 1.0 (1.0)
ol v^*_8	0.0 0.0 0.0 (0.0)
ol v^*_9	1.0 1.0 1.0 (1.0)
ol v^*_{10}	0.0 0.0 0.0 (0.0)
ol v^*_{11}	1.0 1.0 1.0 (1.0)
ol v^*_{12}	0.0 0.0 0.0 (0.0)
ol v^*_{13}	1.0 1.0 1.0 (1.0)
ol v^*_{14}	0.0 0.0 0.0 (0.0)
ol v^*_{15}	1.0 1.0 1.0 (1.0)
ol v^*_{16}	0.0 0.0 0.0 (0.0)
ol v^*_{17}	1.0 1.0 1.0 (1.0)
ol v^*_{18}	0.0 0.0 0.0 (0.0)
ol v^*_{19}	1.0 1.0 1.0 (1.0)
ol v^*_{20}	0.0 0.0 0.0 (0.0)
ol v^*_{21}	1.0 1.0 1.0 (1.0)
ol v^*_{22}	0.0 0.0 0.0 (0.0)
ol v^*_{23}	1.0 1.0 1.0 (1.0)
ol v^*_{24}	0.0 0.0 0.0 (0.0)
ol v^*_{25}	1.0 1.0 1.0 (1.0)
ol v^*_{26}	0.0 0.0 0.0 (0.0)
ol v^*_{27}	1.0 1.0 1.0 (1.0)
ol v^*_{28}	0.0 0.0 0.0 (0.0)
ol v^*_{29}	1.0 1.0 1.0 (1.0)
ol v^*_{30}	0.0 0.0 0.0 (0.0)
ol v^*_{31}	1.0 1.0 1.0 (1.0)
ol v^*_{32}	0.0 0.0 0.0 (0.0)
ol v^*_{33}	1.0 1.0 1.0 (1.0)
ol v^*_{34}	0.0 0.0 0.0 (0.0)
ol v^*_{35}	1.0 1.0 1.0 (1.0)
ol v^*_{36}	0.0 0.0 0.0 (0.0)
ol v^*_{37}	1.0 1.0 1.0 (1.0)
ol v^*_{38}	0.0 0.0 0.0 (0.0)
ol v^*_{39}	1.0 1.0 1.0 (1.0)
ol v^*_{40}	0.0 0.0 0.0 (0.0)
ol v^*_{41}	1.0 1.0 1.0 (1.0)
ol v^*_{42}	0.0 0.0 0.0 (0.0)
ol v^*_{43}	1.0 1.0 1.0 (1.0)
ol v^*_{44}	0.0 0.0 0.0 (0.0)
ol v^*_{45}	1.0 1.0 1.0 (1.0)
ol v^*_{46}	0.0 0.0 0.0 (0.0)
ol v^*_{47}	1.0 1.0 1.0 (1.0)
ol v^*_{48}	0.0 0.0 0.0 (0.0)
ol v^*_{49}	1.0 1.0 1.0 (1.0)
ol v^*_{50}	0.0 0.0 0.0 (0.0)
ol v^*_{51}	1.0 1.0 1.0 (1.0)
ol v^*_{52}	0.0 0.0 0.0 (0.0)
ol v^*_{53}	1.0 1.0 1.0 (1.0)
ol v^*_{54}	0.0 0.0 0.0 (0.0)
ol v^*_{55}	1.0 1.0 1.0 (1.0)
ol v^*_{56}	0.0 0.0 0.0 (0.0)
ol v^*_{57}	1.0 1.0 1.0 (1.0)
ol v^*_{58}	0.0 0.0 0.0 (0.0)
ol v^*_{59}	1.0 1.0 1.0 (1.0)
ol v^*_{60}	0.0 0.0 0.0 (0.0)
ol v^*_{61}	1.0 1.0 1.0 (1.0)
ol v^*_{62}	0.0 0.0 0.0 (0.0)
ol v^*_{63}	1.0 1.0 1.0 (1.0)
ol v^*_{64}	0.0 0.0 0.0 (0.0)
ol v^*_{65}	1.0 1.0 1.0 (1.0)
ol v^*_{66}	0.0 0.0 0.0 (0.0)
ol v^*_{67}	1.0 1.0 1.0 (1.0)
ol v^*_{68}	0.0 0.0 0.0 (0.0)
ol v^*_{69}	1.0 1.0 1.0 (1.0)
ol v^*_{70}	0.0 0.0 0.0 (0.0)
ol v^*_{71}	1.0 1.0 1.0 (1.0)
ol v^*_{72}	0.0 0.0 0.0 (0.0)
ol v^*_{73}	1.0 1.0 1.0 (1.0)
ol v^*_{74}	0.0 0.0 0.0 (0.0)
ol v^*_{75}	1.0 1.0 1.0 (1.0)
ol v^*_{76}	0.0 0.0 0.0 (0.0)
ol v^*_{77}	1.0 1.0 1.0 (1.0)
ol v^*_{78}	0.0 0.0 0.0 (0.0)
ol v^*_{79}	1.0 1.0 1.0 (1.0)
ol v^*_{80}	0.0 0.0 0.0 (0.0)
ol v^*_{81}	1.0 1.0 1.0 (1.0)
ol v^*_{82}	0.0 0.0 0.0 (0.0)
ol v^*_{83}	1.0 1.0 1.0 (1.0)
ol v^*_{84}	0.0 0.0 0.0 (0.0)
ol v^*_{85}	1.0 1.0 1.0 (1.0)
ol v^*_{86}	0.0 0.0 0.0 (0.0)
ol v^*_{87}	1.0 1.0 1.0 (1.0)
ol v^*_{88}	0.0 0.0 0.0 (0.0)
ol v^*_{89}	1.0 1.0 1.0 (1.0)
ol v^*_{90}	0.0 0.0 0.0 (0.0)
ol v^*_{91}	1.0 1.0 1.0 (1.0)
ol v^*_{92}	0.0 0.0 0.0 (0.0)
ol v^*_{93}	1.0 1.0 1.0 (1.0)
ol v^*_{94}	0.0 0.0 0.0 (0.0)
ol v^*_{95}	1.0 1.0 1.0 (1.0)
ol v^*_{96}	0.0 0.0 0.0 (0.0)
ol v^*_{97}	1.0 1.0 1.0 (1.0)
ol v^*_{98}	0.0 0.0 0.0 (0.0)
ol v^*_{99}	1.0 1.0 1.0 (1.0)
ol v^*_{100}	0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)	
ol v^*_3	1.0 0.75 1.0 (1.0)
ol v^*_4	0.0 0.25 0.0 (0.0)
ol v^*_5	1.0 0.75 1.0 (1.0)
ol v^*_6	0.0 0.25 0.0 (0.0)
ol v^*_7	1.0 0.75 1.0 (1.0)
ol v^*_8	0.0 0.25 0.0 (0.0)
ol v^*_9	1.0 0.75 1.0 (1.0)
ol v^*_{10}	0.0 0.25 0.0 (0.0)
ol v^*_{11}	1.0 0.75 1.0 (1.0)
ol v^*_{12}	0.0 0.25 0.0 (0.0)
ol v^*_{13}	1.0 0.75 1.0 (1.0)
ol v^*_{14}	0.0 0.25 0.0 (0.0)
ol v^*_{15}	1.0 0.75 1.0 (1.0)
ol v^*_{16}	0.0 0.25 0.0 (0.0)
ol v^*_{17}	1.0 0.75 1.0 (1.0)
ol v^*_{18}	0.0 0.25 0.0 (0.0)
ol v^*_{19}	1.0 0.75 1.0 (1.0)
ol v^*_{20}	0.0 0.25 0.0 (0.0)
ol v^*_{21}	1.0 0.75 1.0 (1.0)
ol v^*_{22}	0.0 0.25 0.0 (0.0)
ol v^*_{23}	1.0 0.75 1.0 (1.0)
ol v^*_{24}	0.0 0.25 0.0 (0.0)
ol v^*_{25}	1.0 0.75 1.0 (1.0)
ol v^*_{26}	0.0 0.25 0.0 (0.0)
ol v^*_{27}	1.0 0.75 1.0 (1.0)
ol v^*_{28}	0.0 0.25 0.0 (0.0)
ol v^*_{29}	1.0 0.75 1.0 (1.0)
ol v^*_{30}	0.0 0.25 0.0 (0.0)
ol v^*_{31}	1.0 0.75 1.0 (1.0)
ol v^*_{32}	0.0 0.25 0.0 (0.0)
ol v^*_{33}	1.0 0.75 1.0 (1.0)
ol v^*_{34}	0.0 0.25 0.0 (0.0)
ol v^*_{35}	1.0 0.75 1.0 (1.0)
ol v^*_{36}	0.0 0.25 0.0 (0.0)
ol v^*_{37}	1.0 0.75 1.0 (1.0)
ol v^*_{38}	0.0 0.25 0.0 (0.0)
ol v^*_{39}	1.0 0.75 1.0 (1.0)
ol v^*_{40}	0.0 0.25 0.0 (0.0)
ol v^*_{41}	1.0 0.75 1.0 (1.0)
ol v^*_{42}	0.0 0.25 0.0 (0.0)
ol v^*_{43}	1.0 0.75 1.0 (1.0)
ol v^*_{44}	0.0 0.25 0.0 (0.0)
ol v^*_{45}	1.0 0.75 1.0 (1.0)
ol v^*_{46}	0.0 0.25 0.0 (0.0)
ol v^*_{47}	1.0 0.75 1.0 (1.0)
ol v^*_{48}	0.0 0.25 0.0 (0.0)
ol v^*_{49}	1.0 0.75 1.0 (1.0)
ol v^*_{50}	0.0 0.25 0.0 (0.0)
ol v^*_{51}	1.0 0.75 1.0 (1.0)
ol v^*_{52}	0.0 0.25 0.0 (0.0)
ol v^*_{53}	1.0 0.75 1.0 (1.0)
ol v^*_{54}	0.0 0.25 0.0 (0.0)
ol v^*_{55}	1.0 0.75 1.0 (1.0)
ol v^*_{56}	0.0 0.25 0.0 (0.0)
ol v^*_{57}	1.0 0.75 1.0 (1.0)
ol v^*_{58}	0.0 0.25 0.0 (0.0)
ol v^*_{59}	1.0 0.75 1.0 (1.0)
ol v^*_{60}	0.0 0.25 0.0 (0.0)
ol v^*_{61}	1.0 0.75 1.0 (1.0)
ol v^*_{62}	0.0 0.25 0.0 (0.0)
ol v^*_{63}	1.0 0.75 1.0 (1.0)
ol v^*_{64}	0.0 0.25 0.0 (0.0)
ol v^*_{65}	1.0 0.75 1.0 (1.0)
ol v^*_{66}	0.0 0.25 0.0 (0.0)
ol v^*_{67}	1.0 0.75 1.0 (1.0)
ol v^*_{68}	0.0 0.25 0.0 (0.0)
ol v^*_{69}	1.0 0.75 1.0 (1.0)
ol v^*_{70}	0.0 0.25 0.0 (0.0)
ol v^*_{71}	1.0 0.75 1.0 (1.0)
ol v^*_{72}	0.0 0.25 0.0 (0.0)
ol v^*_{73}	1.0 0.75 1.0 (1.0)
ol v^*_{74}	0.0 0.25 0.0 (0.0)
ol v^*_{75}	1.0 0.75 1.0 (1.0)
ol v^*_{76}	0.0 0.25 0.0 (0.0)
ol v^*_{77}	1.0 0.75 1.0 (1.0)
ol v^*_{78}	0.0 0.25 0.0 (0.0)
ol v^*_{79}	1.0 0.75 1.0 (1.0)
ol v^*_{80}	0.0 0.25 0.0 (0.0)
ol v^*_{81}	1.0 0.75 1.0 (1.0)
ol v^*_{82}	0.0 0.25 0.0 (0.0)
ol v^*_{83}	1.0 0.75 1.0 (1.0)
ol v^*_{84}	0.0 0.25 0.0 (0.0)
ol v^*_{85}	1.0 0.75 1.0 (1.0)
ol v^*_{86}	0.0 0.25 0.0 (0.0)
ol v^*_{87}	1.0 0.75 1.0 (1.0)
ol v^*_{88}	0.0 0.25 0.0 (0.0)
ol v^*_{89}	1.0 0.75 1.0 (1.0)
ol v^*_{90}	0.0 0.25 0.0 (0.0)
ol v^*_{91}	1.0 0.75 1.0 (1.0)
ol v^*_{92}	0.0 0.25 0.0 (0.0)
ol v^*_{93}	1.0 0.75 1.0 (1.0)
ol v^*_{94}	0.0 0.25 0.0 (0.0)
ol v^*_{95}	1.0 0.75 1.0 (1.0)
ol v^*_{96}	0.0 0.25 0.0 (0.0)
ol v^*_{97}	1.0 0.75 1.0 (1.0)
ol v^*_{98}	0.0 0.25 0.0 (0.0)
ol v^*_{99}	1.0 0.75 1.0 (1.0)
ol v^*_{100}	0.0 0.25 0.0 (0.0)

LAB*TCHa	87.5	27.73	328.24
relative CIELAB lab*			
lab*lab	0.9	0.212	-0.131
lab*tch	0.875	0.25	0.912
lab*ncb	0.0	0.25	0.912
relative Natural Colour (NC)			
lab*lrj	0.9	0.176	-0.177
lab*tce	0.875	0.25	0.874
lab*nce	0.0	0.25	b49r

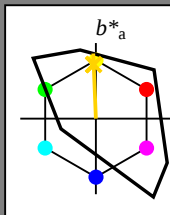
Input: Colorimetric Television Luminous System TLS00

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

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

D65: hue J
LCH*Ma: 85 86 92
olv*Ma: 1.0 0.82 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
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*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* 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*TCh 97.5 21.54 92.33

relative CIELAB lab*
lab*lab 0.973 -0.009 0.25
lab*tch 0.875 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.973 0.0 0.25
lab*tce 0.875 0.25 0.256
lab*nce 0.0 0.25 0.256

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 75.0 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* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 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 69.01 -0.86 21.53
LAB*Lab 69.01 -0.86 21.53
LAB*TCh 62.5 21.55 92.31

relative CIELAB lab*
lab*lab 0.75 0.662 0.25 (1.0)
lab*tch 0.625 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.25
lab*tce 0.625 0.25 0.256
lab*nce 0.0 0.25 0.256

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 47.72 0.0 0.0
LAB*Lab 47.72 0.0 0.0
LAB*TCh 50.0 0.01

relative CIELAB lab*
lab*lab 0.75 0.456 0.25 (1.0)
lab*tch 0.625 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.25
lab*tce 0.625 0.25 0.256
lab*nce 0.0 0.25 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

relative Inform. Technology (IT)
olv3* 0.75 0.618 0.0 (1.0)
cmyn3* 0.25 0.338 0.75 (0.0)
olv4* 1.0 0.912 0.5 (0.75)
cmyn4* 0.0 0.088 0.5 (0.25)
standard and adapted CIELAB
LAB*Lab 66.47 -1.73 43.06
LAB*Lab 66.47 -1.73 43.06
LAB*TCh 50.0 43.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.618 0.0 (1.0)
lab*tch 0.625 0.75 0.256
lab*nch 0.0 0.75 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.625 0.75 0.256
lab*nce 0.0 0.75 0.256

NE530-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

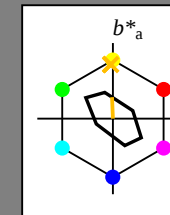
Output: Colorimetric Television Luminous System TLS70

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

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

D65: hue J
LCH*Ma: 89 28 92
olv*Ma: 1.0 0.74 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
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*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* 1.0 0.935 0.75 (1.0)
cmyn3* 0.0 0.065 0.25 (0.0)
olv4* 1.0 0.935 0.75 (1.0)
cmyn4* 0.0 0.065 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 93.9 -0.28 7.09
LAB*Lab 93.9 -0.28 7.09
LAB*TCh 87.5 7.1 92.33

relative CIELAB lab*
lab*lab 0.941 -0.009 0.25
lab*tch 0.875 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.941 0.0 0.25
lab*tce 0.875 0.25 0.256
lab*nce 0.0 0.25 0.256

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 88.98 0.0 0.0
LAB*Lab 88.98 0.0 0.0
LAB*TCh 75.0 0.0

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* 0.75 0.685 0.5 (1.0)
cmyn3* 0.25 0.315 0.5 (0.0)
olv4* 1.0 0.935 0.75 (1.0)
cmyn4* 0.0 0.065 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 87.48 -0.28 7.09
LAB*Lab 87.48 -0.28 7.09
LAB*TCh 62.5 7.1 92.31

relative CIELAB lab*
lab*lab 0.75 0.685 0.5 (1.0)
lab*tch 0.625 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.25
lab*tce 0.625 0.25 0.256
lab*nce 0.0 0.25 0.256

