

Input: Colorimetric Television Luminous System TLS70

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

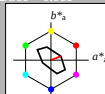
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 76 28 22

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 16$

%Regularity

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

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

TLS70; adapted (a) CIELAB data						
$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$		
OMa 76.43	26.27	10.57	28.32	22		
YMa 93.93	-10.76	34.63	36.27	107		
LMa 89.32	-35.8	27.64	45.24	142		
CMa 79.3	-21.95	-7.07	23.07	198		
VMa 92.1	15.76	-35.63	38.97	294		
MMa 68.5	37.52	-25.23	45.22	326		
NMa 69.7	0.0	0.0	0.0	0		
WMa 95.41	0.0	0.0	0.0	0		
RCIE 39.92	58.74	27.99	65.07	25		
JCIE 81.26	-2.88	71.56	71.62	92		
GCIE 52.23	-42.41	13.6	44.55	162		
BCIE 30.57	1.41	-46.46	46.49	272		

Output: Colorimetric Television Luminous System TLS00

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

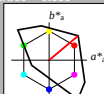
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 158$

%Regularity

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

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

TLS00; adapted (a) CIELAB data						
$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$		
OMa 50.5	76.92	64.55	100.42	40		
YMa 92.66	-20.69	90.75	93.08	103		
LMa 83.63	-82.75	79.9	115.04	136		
CMa 86.88	-46.16	-13.55	48.12	196		
VMa 30.39	76.06	-103.59	128.52	306		
MMa 57.3	94.35	-58.41	110.97	328		
NMa 0.01	0.0	0.0	0.0	0		
WMa 95.41	0.0	0.0	0.0	0		
RCIE 39.92	58.74	27.99	65.07	25		
JCIE 81.26	-2.88	71.56	71.62	92		
GCIE 52.23	-42.41	13.6	44.55	162		
BCIE 30.57	1.41	-46.46	46.49	272		

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*Lab 95.41 0.0 0.0
LAB*TChe 99.99 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (0.5)
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*TChe 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 -
lab*nch 0.5 0.0 -
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*tce 0.5 0.0 -
lab*nce 0.5 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*Lab 0.03 0.0 0.0
LAB*TChe 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*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

relative Inform. Technology (IT)
olvi3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)

standard and adapted CIELAB
LAB*LAB 72.95 38.45 32.27
LAB*Lab 72.95 38.45 32.27
LAB*TChe 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
lab*lrj 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)
olvi3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 1.0 1.0 (0.0)
olvi4* 1.0 0.5 0.5 0.5
cmyn4* 0.0 0.5 0.5 0.5

standard and adapted CIELAB
LAB*LAB 25.26 38.45 32.27
LAB*Lab 25.26 38.45 32.27
LAB*TChe 25.01 30.2 40.0

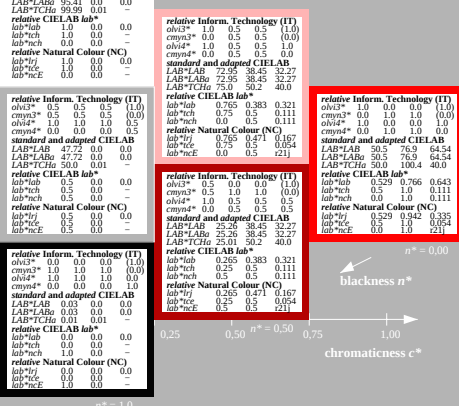
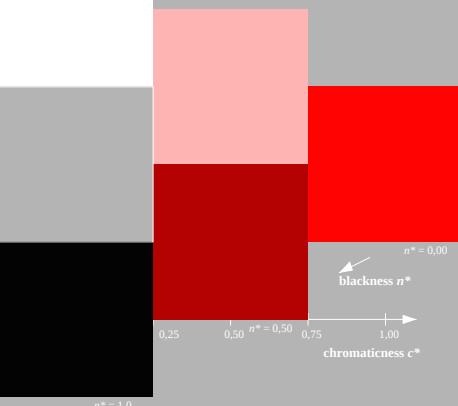
relative CIELAB lab*
lab*lab 0.265 0.383 0.321
lab*tch 0.25 0.5 0.111
lab*nch 0.5 1.0 0.111
lab*lrj 0.265 0.471 0.167
lab*tce 0.25 0.5 0.054
lab*nce 0.5 0.5 0.121

relative Inform. Technology (IT)
olvi3* 1.0 0.0 0.0 (1.0)
cmyn3* 0.0 1.0 1.0 (0.0)
olvi4* 1.0 0.0 0.0 1.0
cmyn4* 0.0 1.0 1.0 0.0

standard and adapted CIELAB
LAB*LAB 50.5 76.9 64.54
LAB*Lab 50.5 76.9 64.54
LAB*TChe 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
lab*lrj 0.529 0.942 0.325
lab*tce 0.5 1.0 0.054
lab*nce 0.0 1.0 0.121

relative Natural Colour (NC)
lab*lrj 0.529 0.942 0.325
lab*tce 0.5 1.0 0.054
lab*nce 0.0 1.0 0.121



NE08-7, 3 step scales for constant CIELAB hue 22/360 = 0.061 (left)

3 step scales for constant CIELAB hue 40/360 = 0.111 (right)

BAM-test chart NE08; Colorimetric systems TLS70 & TLS00
D65: 3 step colour scales and coordinate data for 10 hues

input: olv* setrgbcolor
output: olv* setrgbcolor / w* setgray