

Input: Colorimetric Television Luminous System TLS70

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

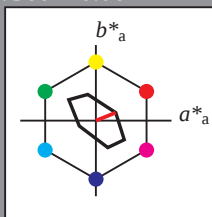
$lab \cdot tch$ and $lab \cdot nch$

D65: hue O

LCH*Ma: 76 28 22

olv*Ma: 1.0 0.0 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 Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	90.66	6.56	2.64
LAB*LAB	90.66	6.56	2.64
LAB*LAB	90.66	6.56	2.64
LAB*LAB	90.66	6.56	2.64

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	84.24	6.57	2.64
LAB*LAB	84.24	6.57	2.64
LAB*LAB	84.24	6.57	2.64
LAB*LAB	84.24	6.57	2.64

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	77.81	6.57	2.64
LAB*LAB	77.81	6.57	2.64
LAB*LAB	77.81	6.57	2.64
LAB*LAB	77.81	6.57	2.64

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	76.13	13.13	0.0
LAB*LAB	76.13	13.13	0.0
LAB*LAB	76.13	13.13	0.0
LAB*LAB	76.13	13.13	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	71.38	6.56	2.64
LAB*LAB	71.38	6.56	2.64
LAB*LAB	71.38	6.56	2.64
LAB*LAB	71.38	6.56	2.64

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	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

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

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	85.92	13.13	5.28
LAB*LAB	85.92	13.13	5.28
LAB*LAB	85.92	13.13	5.28
LAB*LAB	85.92	13.13	5.28

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	81.17	19.7	7.93
LAB*LAB	81.17	19.7	7.93
LAB*LAB	81.17	19.7	7.93
LAB*LAB	81.17	19.7	7.93

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	79.49	13.14	5.29
LAB*LAB	79.49	13.14	5.29
LAB*LAB	79.49	13.14	5.29
LAB*LAB	79.49	13.14	5.29

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	77.81	19.7	7.93
LAB*LAB	77.81	19.7	7.93
LAB*LAB	77.81	19.7	7.93
LAB*LAB	77.81	19.7	7.93

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	76.13	19.7	7.93
LAB*LAB	76.13	19.7	7.93
LAB*LAB	76.13	19.7	7.93
LAB*LAB	76.13	19.7	7.93

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	74.75	19.7	7.93
LAB*LAB	74.75	19.7	7.93
LAB*LAB	74.75	19.7	7.93
LAB*LAB	74.75	19.7	7.93

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	73.07	13.13	5.29
LAB*LAB	73.07	13.13	5.29
LAB*LAB	73.07	13.13	5.29
LAB*LAB	73.07	13.13	5.29

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	71.38	6.56	2.64
LAB*LAB	71.38	6.56	2.64
LAB*LAB	71.38	6.56	2.64
LAB*LAB	71.38	6.56	2.64

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0

Output: Colorimetric Television Luminous System TLS00

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

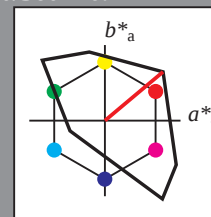
$lab \cdot tch$ and $lab \cdot nch$

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 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)

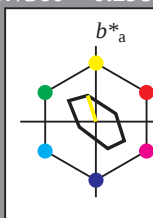
standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

Input: 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^*



TLS70; adapted (a) CIELAB data					
	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
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*Lab	95.41	0.0	0.0		

LAB*TC _{Ha}	99.99	0.0	–
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*trj	1.0	0.0	0.0
lab*tce	1.0	0.0	–
lab*nce	0.0	0.0	–

relative Inform. Technology (IT)				
olv3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	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 _a	88.98	0.0	0.0	
LAB*TC _h	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	0.25	0.0	0.0	
relative Natural Colour (NC)				
lab*lrj	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)				
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	0.5
standard and adapted CIELAB				
LAB*LAB	82.56	0.0	0.0	
LAB*LAB	82.56	0.0	0.0	
LAB*TChA	50.0	0.0		-

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)				
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	76.13	0.0	0.0	
LAB*LabA	76.13	0.0	0.0	
LAB*TCHa	25.0	0.0	-	

relative CIELAB lab*			
lab*lab	0.25	0.0	0.0
lab*tch	0.25	0.0	–
lab*nch	0.75	0.0	–
relative Natural Colour (NC)			
lab*lrj	0.25	0.0	0.0
lab*tce	0.25	0.0	–
lab*nce	0.75	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	69.7	0.0	0.0	
LAB*LABa	69.7	0.0	0.0	
LAB*TChA	0.01	0.0		-
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	—

$n^* = 1.0$

relative Inform. Technology (IT)				
olv3*	1.0	1.0	0.75	(1.0)
cmyn3*	0.0	0.0	0.25	(0.0)
olv4*	1.0	1.0	0.75	1.0
cmyn4*	0.0	0.0	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	95.04	-2.68	8.65	
LAB*LABa	95.04	-2.68	8.65	
LAB*TC18	95.04	-2.68	8.65	

LAB* <i>tch</i> 87.5 9.06 107.26				
relative CIELAB lab*				
lab*lab	0.986	-0.073	0.239	
lab*tch	0.875	0.25	0.298	
lab*nch	0.0	0.25	0.298	
relative Natural Colour (NC)				
lab*lrj	0.986	-0.081	0.236	
lab*tce	0.875	0.25	0.304	
lab*nce	0.0	0.25	j21g	

relative Inform. Technology (IT)				
olv3*	0.75	0.75	0.5	(1.0)
cmyn3*	0.25	0.25	0.5	(0.0)
olv4*	1.0	1.0	0.75	0.75
cmyn4*	0.0	0.0	0.25	0.25
standard and adapted CIELAB				
LAB*LAB	88.61	-2.68	8.66	
LAB*LAB _a	88.61	-2.68	8.66	
LAB*TCH _a	62.5	9.07	107.28	

relative CIELAB lab*				
lab*lab	0.736	-0.073	0.239	
lab*tch	0.625	0.25	0.298	
lab*nch	0.25	0.25	0.298	
relative Natural Colour (NC)				
lab*lrj	0.736	-0.081	0.236	
lab*tce	0.625	0.25	0.304	
lab*nce	0.25	0.25	j21g	

relative Inform. Technology (IT)				
olv3*	0.5	0.5	0.25	(1.0)
cmyn3*	0.5	0.5	0.75	(0.0)
olv4*	1.0	1.0	0.75	0.5
cmyn4*	0.0	0.0	0.25	0.5
standard and adapted CIELAB				
LAB*LAB	82.18	-2.68	8.66	
LAB*LABa	82.18	-2.68	8.66	
LAB*TCha	37.5	9.07	107.28	

relative CIELAB lab*			
lab*lab	0.486	-0.073	0.239
lab*tch	0.375	0.25	0.298
lab*nch	0.5	0.25	0.298
relative Natural Colour (NC)			
lab*lrj	0.486	-0.081	0.236
lab*tce	0.375	0.25	0.304
lab*nce	0.5	0.25	0.298

relative Inform. Technology (IT)				
olv3*	0.25	0.25	0.0	(1.0)
cmyn3*	0.75	0.75	1.0	(0.0)
olv4*	1.0	1.0	0.75	0.25
cmyn4*	0.0	0.0	0.25	0.75
standard and adapted CIELAB				
LAB*LAB	75.76	-2.68	8.65	
LAB*Lab _a	75.76	-2.68	8.65	
LAB*TCH _a	12.5	9.06	107.28	
relative CIELAB Lab*				

lab*lab	0.236	-0.073	0.239
lab*tch	0.125	0.25	0.298
lab*nch	0.75	0.25	0.298
relative Natural Colour (NC)			
lab*lrj	0.236	-0.081	0.236
lab*tce	0.125	0.25	0.304
lab*nce	0.75	0.25	0.298

0,25

$n^* = 0.50$

relative Inform. Technology (IT)				
olv3*	1.0	1.0	0.5	(1.0)
cmyn3*	0.0	0.0	0.5	(0.0)
olv4*	1.0	1.0	0.5	1.0
cmyn4*	0.0	0.0	0.5	0.0
standard and adapted CIELAB				
LAB*LAB	94.67	-5.37	17.31	
LAB*LABa	94.67	-5.37	17.31	
LAB*TL*U	75.0	18.13	107.28	

relative CIELAB lab*			
lab*lab	0.971	-0.147	0.477
lab*tch	0.75	0.5	0.298
lab*nch	0.0	0.5	0.298
relative Natural Colour (NC)			
lab*lrj	0.971	-0.164	0.472
lab*tce	0.75	0.5	0.304
lab*nce	0.0	0.5	j21g

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	0.5	0.75
cmyn4*	0.0	0.0	0.5	0.25
standard and adapted CIELAB				
LAB*LAB	88.24	-5.38	17.32	
LAB*Lab	88.24	-5.38	17.32	
LAB*TCRa	50.0	18.13	107.28	

relative CIELAB lab*			
lab*lab	0.721	-0.147	0.477
lab*tch	0.5	0.5	0.298
lab*nch	0.25	0.5	0.298
relative Natural Colour (NC)			
lab*lrj	0.721	-0.164	0.472
lab*tce	0.5	0.5	0.304
lab*nCE	0.25	0.5	0.298

relative Inform. Technology (IT)				
olvi3*	0.5	0.5	0.0	(1.0)
cmyn3*	0.5	0.5	1.0	(0.0)
olvi4*	1.0	1.0	0.5	0.5
cmyn4*	0.0	0.0	0.5	0.5
standard and adapted CIELAB				
LAB*LAB	81.82	-5.37	17.31	
LAB*LABa	81.82	-5.37	17.31	
LAB*TCha	25.01	18.13	107.28	

relative CIELAB lab*			
lab*lab	0.471	-0.147	0.477
lab*tch	0.25	0.5	0.298
lab*nch	0.5	0.5	0.298
relative Natural Colour (NC)			
lab*trj	0.471	-0.164	0.472
lab*tce	0.25	0.5	0.304
lab*nce	0.5	0.5	j21g

$n^* = 0,50$

0,50

$n^* = 0.25$

relative Inform. Technology (IT)					
olv3*	1.0	1.0	1.0	(1.0)	
cmyn3*	0.0	0.0	0		

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 198/360 = 0.55$

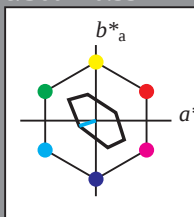
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 91 23 198

olv*Ma: 0.0 1.0 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*	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	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
LAB*TCha	99.99 0.01 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	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
LAB*TCha	99.99 0.01 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	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
LAB*TCha	99.99 0.01 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	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
LAB*TCha	99.99 0.01 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	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
LAB*TCha	99.99 0.01 0.0

Output: Colorimetric Television Luminous System TLS00

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

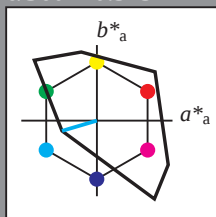
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 87 48 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



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*TCha	99.99 0.01 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	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
LAB*TCha	99.99 0.01 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	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
LAB*TCha	99.99 0.01 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	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
LAB*TCha	99.99 0.01 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	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
LAB*TCha	99.99 0.01 0.0

OE580-7, 5 step scales for constant CIELAB hue 198/360 = 0.55 (left)

5 step scales for constant CIELAB hue 196/360 = 0.545 (right)

BAM-test chart OE58; Colorimetric systems TLS70 & TLS00

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

input: $cmY0^* setcmykcolor$

output: $cmY0^* / 000n^* setcmykcolor$

Input: Colorimetric Television Luminous System TLS70

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

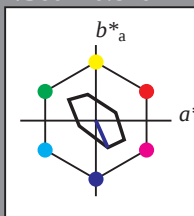
lab^*tch and lab^*nch

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*LABa	95.41	0.0	0.0
LAB*LABb	99.99	0.0	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)

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*LABa	88.98	0.0	0.0
LAB*LABb	99.99	0.0	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*	0.5	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	83.75	7.88	-17.81
LAB*LABa	83.75	7.88	-17.81
LAB*LABb	97.5	9.74	293.86

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*	0.25	0.25	0.25	(0.0)
olv4*	0.25	0.25	0.25	(1.0)
cmyn4*	0.25	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	77.93	11.82	-26.72
LAB*LABa	77.93	11.82	-26.72
LAB*LABb	97.5	9.74	293.86

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*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	72.1	15.76	-35.62
LAB*LABa	72.1	15.76	-35.62
LAB*LABb	97.5	9.74	293.86

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(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	97.5	9.74	293.86

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	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*	0.5	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	82.56	0.0	0.0
LAB*LABa	82.56	0.0	0.0
LAB*LABb	99.99	0.0	0.0

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*	0.5	0.5	0.5	(1.0)
cmyn3*	0.75	0.75	0.75	(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	76.73	3.94	-8.9
LAB*LABa	76.73	3.94	-8.9
LAB*LABb	97.5	9.74	293.86

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*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(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	77.93	7.88	-17.81
LAB*LABa	77.93	7.88	-17.81
LAB*LABb	97.5	9.74	293.86

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	72.1	15.76	-35.62
LAB*LABa	72.1	15.76	-35.62
LAB*LABb	97.5	9.74	293.86

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(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	97.5	9.74	293.86

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(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	97.5	9.74	293.86

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	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	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	82.56	0.0	0.0
LAB*LABa	82.56	0.0	0.0
LAB*LABb	99.99	0.0	0.0

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*	0.5	0.5	0.5	(1.0)
cmyn3*	0.75	0.75	0.75	(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	76.73	3.94	-8.9
LAB*LABa	76.73	3.94	-8.9
LAB*LABb	97.5	9.74	293.86

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*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(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	77.93	7.88	-17.81
LAB*LABa	77.93	7.88	-17.81
LAB*LABb	97.5	9.74	293.86

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	72.1	15.76	-35.62
LAB*LABa	72.1	15.76	-35.62
LAB*LABb	97.5	9.74	293.86

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(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	97.5	9.74	293.86

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.0	0.0	0.0
lab*tce	0.0	0.0	0.0
lab*nce	0.0	0.0	0.0

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	—

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 326/360 = 0.906$

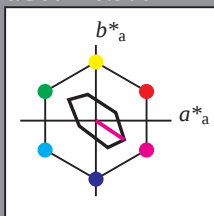
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 79 45 326

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



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)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	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*LAB	88.98	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	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*LAB	82.56	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	76.13	0.0	0.0
LAB*LAB	76.13	0.0	0.0
LAB*LAB	76.13	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0
LAB*LAB	69.17	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.17	0.0	0.0
LAB*LAB	59.17	0.0	0.0
LAB*LAB	59.17	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

standard and adapted CIELAB

LAB*LAB	86.95	18.76	-12.61
LAB*LAB	86.95	18.76	-12.61
LAB*LAB	86.95	18.76	-12.61

relative CIELAB lab*

lab*lab	0.671	0.415	-0.278
lab*lab	0.75	0.5	0.906
lab*lab	0.0	0.5	0.906

relative Natural Colour (NC)

lab*lab	0.671	0.415	-0.278
lab*lab	0.75	0.5	0.906
lab*lab	0.0	0.5	0.906

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	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv4*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	80.53	18.76	-12.61
LAB*LAB	80.53	18.76	-12.61
LAB*LAB	80.53	18.76	-12.61

relative CIELAB lab*

lab*lab	0.507	0.511	-0.548
lab*lab	0.625	0.75	0.906
lab*lab	0.0	0.75	0.906

relative Natural Colour (NC)

lab*lab	0.507	0.511	-0.548
lab*lab	0.625	0.75	0.906
lab*lab	0.0	0.75	0.906

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	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv4*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.3	28.14	-18.92
LAB*LAB	76.3	28.14	-18.92
LAB*LAB	76.3	28.14	-18.92

relative CIELAB lab*

lab*lab	0.342	0.83	-0.557
lab*lab	0.5	1.0	0.906
lab*lab	0.0	1.0	0.906

relative Natural Colour (NC)

lab*lab	0.342	0.83	-0.557
lab*lab	0.5	1.0	0.906
lab*lab	0.0	1.0	0.906

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	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv4*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.3	28.14	-18.92
LAB*LAB	76.3	28.14	-18.92
LAB*LAB	76.3	28.14	-18.92

relative CIELAB lab*

lab*lab	0.257	0.622	-0.418
lab*lab	0.375	0.75	0.906
lab*lab	0.0	0.75	0.906

relative Natural Colour (NC)

lab*lab	0.257	0.622	-0.418
lab*lab	0.375	0.75	0.906
lab*lab	0.0	0.75	0.906

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	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv4*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.3	28.14	-18.92
LAB*LAB	76.3	28.14	-18.92
LAB*LAB	76.3	28.14	-18.92

relative CIELAB lab*

lab*lab	0.257	0.622	-0.418
lab*lab	0.375	0.75	0.906
lab*lab	0.0	0.75	0.906

relative Natural Colour (NC)

lab*lab	0.257	0.622	-0.418
lab*lab	0.375	0.75	0.906
lab*lab	0.0	0.75	0.906

Output: Colorimetric Television Luminous System TLS00

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

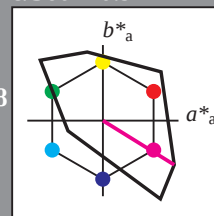
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



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)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	62.03	23.59	-14.46
LAB*LAB	62.03	23.59	-14.46
LAB*LAB	62.03	23.59	-14.46

relative CIELAB lab*

lab*lab	0.625	0.75</
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Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 25/360 = 0.071$

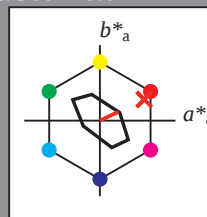
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 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)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	1.0	0.762	0.75	(1.0)
olv3*	0.0	0.238	0.25	(0.0)
olv4*	1.0	0.762	0.75	(1.0)
olv4*	0.0	0.238	0.25	(0.0)
olv5*	1.0	0.762	0.75	(1.0)
olv5*	0.0	0.238	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	90.87	6.13	2.92
LAB*LAB	90.87	6.13	2.92
LAB*LAB	90.87	6.13	2.92

relative CIELAB lab*

lab*lab	0.823	0.226	0.108
lab*lab	0.875	0.25	0.071
lab*lab	0.0	0.25	0.071
lab*lab	0.0	0.0	0.25

relative Natural Colour (NC)

lab*lab	0.823	0.25	0.0
lab*lab	0.875	0.25	0.0
lab*lab	0.0	0.25	0.0
lab*lab	0.0	0.0	0.25

relative Inform. Technology (IT)

olv3*	1.0	0.283	0.25	(1.0)
olv3*	0.0	0.717	0.25	(0.0)
olv4*	1.0	0.283	0.25	(1.0)
olv4*	0.0	0.717	0.25	(0.0)
olv5*	1.0	0.283	0.25	(1.0)
olv5*	0.0	0.717	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 25/360 = 0.071$

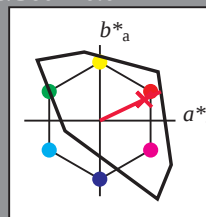
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 52 89 25

olv*Ma: 1.0 0.0 0.21

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

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.803	(1.0)
olv3*	0.0	0.25	0.197	(0.0)
olv4*	1.0	0.75	0.803	(1.0)
olv4*	0.0	0.25	0.197	(0.0)
olv5*	1.0	0.75	0.803	(1.0)
olv5*	0.0	0.25	0.197	(0.0)

standard and adapted CIELAB

LAB*LAB	84.54	20.15	9.6
LAB*LAB	84.54	20.15	9.6
LAB*LAB	84.54	20.15	9.6

relative CIELAB lab*

lab*lab	0.886	0.226	0.107
lab*lab	0.875	0.25	0.071
lab*lab	0.0	0.25	0.071
lab*lab	0.0	0.0	0.25

relative Natural Colour (NC)

lab*lab	0.886	0.25	0.0
lab*lab	0.875	0.25	0.0
lab*lab	0.0	0.25	0.0
lab*lab	0.0	0.0	0.25

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.803	(1.0)
olv3*	0.0	0.25	0.197	(0.0)
olv4*	1.0	0.75	0.803	(1.0)
olv4*	0.0	0.25	0.197	(0.0)
olv5*	1.0	0.75	0.803	(1.0)
olv5*	0.0	0.25	0.197	(0.0)

standard and adapted CIELAB

LAB*LAB	84.54	20.15	9.6
LAB*LAB	84.54	20.15	9.6
LAB*LAB	84.54	20.15	9.6

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0
LAB*LAB	88.98	0.0	0.0

relative CIELAB lab*

lab*lab	0.75	0.25	0.108
lab*lab	0.875	0.25	0.071
lab*lab	0.0	0.25	0.071
lab*lab	0.0	0.0	0.25

relative Natural Colour (NC)

lab*lab	0.75	0.25	0.0
lab*lab	0.875	0.25	0.0
lab*lab	0.0	0.25	0.0
lab*lab	0.0	0.0	0.25

relative Inform. Technology (IT)

olv3*	1.0	0.523	0.5	(1.0)
olv3*	0.0	0.477	0.5	(0.0)
olv4*	1.0	0.523	0.5	(1.0)
olv4*	0.0	0.477	0.5	(0.0)
olv5*	1.0	0.523	0.5	(1.0)
olv5*	0.0	0.477	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85
LAB*LAB	86.33	12.27	5.85

relative CIELAB lab*

lab*lab	0.647	0.451	0.215
lab*lab	0.75	0.5	0.071
lab*lab	0.0	0.5	0.071
lab*lab	0.0	0.0	0.5

relative Natural Colour (NC)

lab*lab	0.647	0.5	0.0
lab*lab	0.75	0.5	0.0
lab*lab	0.0	0.5	0.0
lab*lab	0.0	0.0	0.5

relative Inform. Technology (IT)

olv3*	1.0	0.047	0.0	(1.0)
olv3*	0.0	0.953	0.0	(0.0)
olv4*	1.0	0.047	0.0	(1.0)
olv4*	0.0	0.953	0.0	(0.0)
olv5*	1.0	0.047	0.0	(1.0)
olv5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	81.79	18.41	8.77
LAB*LAB	81.79	18.41	8.77
LAB*LAB	81.79	18.41	8.77

relative CIELAB lab*

lab*lab	0.283	0.717	0.323
lab*lab	0.625	0.75	0.071
lab*lab	0.0	0.75	0.071
lab*lab	0.0	0.0	0.75

relative Natural Colour (NC)

lab*lab	0.283	0.75	0.0
lab*lab	0.625	0.75	0.0
lab*lab	0.0	0.75	0.0
lab*lab	0.0	0.0	0.75

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.5	0.0
lab*lab	0.5	0.5	0.0
lab*lab	0.0	0.5	0.5
lab*lab	0.0	0.0	0.5

relative Natural Colour (NC)

lab*lab	0.5	0.5	0.0
lab*lab	0.5	0.5	0.0
lab*lab	0.0	0.5	0.5
lab*lab	0.0	0.0	0.5

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.336	(1.0)
olv3*	0.0	0.75	0.664	(0.0)
olv4*	1.0	0.5	0.606	(1.0)
olv4*	0.0	0.5	0.394	(0.0)
olv5*	1.0	0.5	0.606	(1.0)
olv5*	0.0	0.5	0.394	(0.0)

standard and adapted CIELAB

LAB*LAB	60.69	20.16	9.6
LAB*LAB	60.69	20.16	9.6
LAB*LAB	60.69	20.16	9.6

relative CIELAB lab*

lab*lab	0.638	0.677	0.323
lab*lab	0.75	0.5	0.071
lab*lab	0.0	0.5	0.071
lab*lab	0.0	0.0	0.5

relative Natural Colour (NC)

lab*lab	0.638	0.75	0.0
lab*lab	0.75	0.5	0.0
lab*lab	0.0	0.5	0.0
lab*lab	0.0	0.0	0.5

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0
LAB*LAB	82.56	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.25	0.108
lab*lab	0.625	0.25	0.071
lab*lab	0.0	0.25	0.071
lab*lab	0.0	0.0	0.25

relative Natural Colour (NC)

lab*lab	0.5	0.25	0.0
lab*lab	0.625	0.25	0.0
lab*lab	0.0	0.25	0.0
lab*lab	0.0	0.0	0.25

LAB* <i>t</i> Ch	75.0	13.59	25.48
relative CIELAB lab*			
lab*lab	0.647	0.451	0.215
lab* <i>t</i> ch	0.75	0.5	0.071
lab* <i>n</i> ch	0.0	0.5	0.071
relative Natural Colour (NC)			
lab* <i>l</i> rj	0.647	0.5	0.0
lab* <i>t</i> ce	0.75	0.5	0.0
lab* <i>n</i> cE	0.0	0.5	r00j

Input: Colorimetric Television Luminous System TLS70

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

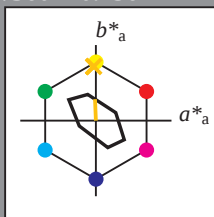
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness t^*



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

standard and adapted CIELAB

LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.935	0.75	(1.0)
olvi3*	0.0	0.065	0.25	(0.0)
olvi4*	1.0	0.935	0.75	1.0
olvi4*	0.0	0.065	0.25	0.0
olvi4*	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*Lab	93.9	-0.28	7.09

relative Inform. Technology (IT)

olvi3*	1.0	0.935	0.75	(1.0)
olvi3*	0.0	0.065	0.25	(0.0)
olvi4*	1.0	0.935	0.75	1.0
olvi4*	0.0	0.065	0.25	0.0
olvi4*	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*Lab	93.9	-0.28	7.09

relative Inform. Technology (IT)

olvi3*	1.0	0.875	0.5	(1.0)
olvi3*	0.0	0.125	0.5	(0.0)
olvi4*	1.0	0.875	0.5	1.0
olvi4*	0.0	0.125	0.5	0.0
olvi4*	0.0	0.125	0.5	0.0

standard and adapted CIELAB

LAB*Lab	92.4	-0.57	14.19
LAB*Lab	92.4	-0.57	14.19
LAB*Lab	92.4	-0.57	14.19

relative Inform. Technology (IT)

olvi3*	1.0	0.875	0.5	(1.0)
olvi3*	0.0	0.125	0.5	(0.0)
olvi4*	1.0	0.875	0.5	1.0
olvi4*	0.0	0.125	0.5	0.0
olvi4*	0.0	0.125	0.5	0.0

standard and adapted CIELAB

LAB*Lab	92.4	-0.57	14.19
LAB*Lab	92.4	-0.57	14.19
LAB*Lab	92.4	-0.57	14.19

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
olvi3*	0.25	0.25	0.25	(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

standard and adapted CIELAB

LAB*Lab	88.98	0.0	0.0
LAB*Lab	88.98	0.0	0.0
LAB*Lab	88.98	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.685	0.5	(1.0)
olvi3*	0.25	0.315	0.5	(0.0)
olvi4*	1.0	0.935	0.75	1.0
olvi4*	0.0	0.065	0.25	0.0
olvi4*	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*Lab	87.48	-0.28	7.09

relative Inform. Technology (IT)

olvi3*	0.75	0.685	0.5	(1.0)
olvi3*	0.25	0.315	0.5	(0.0)
olvi4*	1.0	0.935	0.75	1.0
olvi4*	0.0	0.065	0.25	0.0
olvi4*	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*Lab	87.48	-0.28	7.09

relative Inform. Technology (IT)

olvi3*	0.75	0.685	0.5	(1.0)
olvi3*	0.25	0.315	0.5	(0.0)
olvi4*	1.0	0.935	0.75	1.0
olvi4*	0.0	0.065	0.25	0.0
olvi4*	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*Lab	87.48	-0.28	7.09

relative Inform. Technology (IT)

olvi3*	0.75	0.685	0.5	(1.0)
olvi3*	0.25	0.315	0.5	(0.0)
olvi4*	1.0	0.935	0.75	1.0
olvi4*	0.0	0.065	0.25	0.0
olvi4*	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*Lab	87.48	-0.28	7.09

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(1.0)
olvi3*	0.5	0.5	0.5	(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

standard and adapted CIELAB

LAB*Lab	82.56	0.0	0.0
LAB*Lab	82.56	0.0	0.0
LAB*Lab	82.56	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.5	0.435	0.25	(1.0)
olvi3*	0.5	0.565	0.75	(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

standard and adapted CIELAB

LAB*Lab	82.56	0.0	0.0
LAB*Lab	82.56	0.0	0.0
LAB*Lab	82.56	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.5	0.435	0.25	(1.0)
olvi3*	0.5	0.565	0.75	(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

standard and adapted CIELAB

LAB*Lab	82.56	0.0	0.0
LAB*Lab	82.56	0.0	0.0
LAB*Lab	82.56	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.5	0.435	0.25	(1.0)
olvi3*	0.5	0.565	0.75	(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

standard and adapted CIELAB

LAB*Lab	82.56	0.0	0.0
LAB*Lab	82.56	0.0	0.0
LAB*Lab	82.56	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.5	0.435	0.25	(1.0)
olvi3*	0.5	0.565	0.75	(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

standard and adapted CIELAB

LAB*Lab	82.56	0.0	0.0
LAB*Lab	82.56	0.0	0.0
LAB*Lab	82.56	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
olvi3*	0.75	0.75	0.75	(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

standard and adapted CIELAB

LAB*Lab	76.13	0.0	0.0
LAB*Lab	76.13	0.0	0.0
LAB*Lab	76.13	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.25	0.185	0.10	(1.0)
olvi3*	0.75	0.815	0.90	(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

standard and adapted CIELAB

LAB*Lab	79.34	-0.56	14.19
LAB*Lab	79.34	-0.56	14.19
LAB*Lab	79.34	-0.56	14.19

relative Inform. Technology (IT)

olvi3*	0.25	0.185	0.10	(1.0)
olvi3*	0.75	0.815	0.90	(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

standard and adapted CIELAB

LAB*Lab	79.34	-0.56	14.19
LAB*Lab	79.34	-0.56	14.19
LAB*Lab	79.34	-0.56	14.19

relative Inform. Technology (IT)

olvi3*	0.25	0.185	0.10	(1.0)
olvi3*	0.75	0.815	0.90	(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

standard and adapted CIELAB

LAB*Lab	79.34	-0.56	14.19
LAB*Lab	79.34	-0.56	14.19
LAB*Lab	79.34	-0.56	14.19

relative Inform. Technology (IT)

olvi3*	0.25	0.185	0.10	(1.0)
olvi3*	0.75	0.815	0.90	(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

standard and adapted CIELAB

LAB*Lab	79.34	-0.56	14.19
LAB*Lab	79.34	-0.56	14.19
LAB*Lab	79.34	-0.56	14.19

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
olvi3*	1.0	1.0	1.0	(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

standard and adapted CIELAB

LAB*Lab	69.1	0.0	0.0
LAB*Lab	69.1	0.0	0.0
LAB*Lab	69.1	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.191	-0.009	0.25	(1.0)
olvi3*	0.125	0.25	0.25	(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

standard and adapted CIELAB

LAB*Lab	69.1	0.0	0.0
LAB*Lab	69.1	0.0	0.0
LAB*Lab	69.1	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.191	-0.009	0.25	(1.0)
olvi3*	0.125	0.25	0.25	(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

standard and adapted CIELAB

LAB*Lab	69.1	0.0	0.0
LAB*Lab	69.1	0.0	0.0
LAB*Lab	69.1	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.191	-0.009	0.25	(1.0)
olvi3*	0.125	0.25	0.25	(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

standard and adapted CIELAB

LAB*Lab	69.1	0.0	0.0
LAB*Lab	69.1	0.0	0.0
LAB*Lab	69.1	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.191	-0.009	0.25	(1.0)
olvi3*	0.125	0.25	0.25	(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

standard and adapted CIELAB

LAB*Lab	69.1	0.0	0.0
LAB*Lab	69.1	0.0	0.0
LAB*Lab	69.1	0.0	0.0

OE580-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

BAM-test chart OE58; Colorimetric systems TLS70 & TLS00

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

input: $cmv0^* \text{ setcmvcolor}$

output: $cmv0^* / 000n^* \text{ setcmvcolor}$

