

Input: Colorimetric Television Luminous System TLS00

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

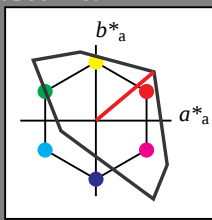
lab^*tch and lab^*nch

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
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

%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)	
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)					
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)	
LAB*LAB	84.18	19.22	16.13		
LAB*Lab	84.18	19.22	16.13		
LAB*Lab	84.18	19.22	16.13		
LAB*Lab	84.18	19.22	16.13		

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)	
LAB*LAB	72.95	38.45	32.27		
LAB*Lab	72.95	38.45	32.27		
LAB*Lab	72.95	38.45	32.27		
LAB*Lab	72.95	38.45	32.27		

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)	
LAB*LAB	61.72	57.68	48.41		
LAB*Lab	61.72	57.68	48.41		
LAB*Lab	61.72	57.68	48.41		
LAB*Lab	61.72	57.68	48.41		

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)	
LAB*LAB	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		

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)	
LAB*LAB	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		

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)	
LAB*LAB	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		

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)	
LAB*LAB	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		

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)	
LAB*LAB	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		

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)	
LAB*LAB	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		
LAB*Lab	50.0	100.0	40.0		

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	71.57	0.0	0.0		
LAB*Lab	71.57	0.0	0.0		
LAB*Lab	71.57	0.0	0.0		
LAB*Lab	71.57	0.0	0.0		

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	60.33	19.23	16.14		
LAB*Lab	60.33	19.23	16.14		
LAB*Lab	60.33	19.23	16.14		
LAB*Lab	60.33	19.23	16.14		

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	49.11	38.46	32.28		
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LAB*Lab	49.11	38.46	32.28		

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		
LAB*Lab	49.11	38.46	32.28		

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	49.11	38.46	32.28		
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LAB*Lab	49.11	38.46	32.28		

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	49.11	38.46	32.28		
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LAB*Lab	49.11	38.46	32.28		

relative Inform. Technology (IT)					
olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	49.11	38.46	32.28		
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olv3*	0.75	0.75	0.75	(1.0)	
cmv3*	0.25	0.25	0.25	(0.0)	
olv4*	1.0	1.0	1.0	(1.0)	
cmv4*	0.0	0.0	0.0	(0.0)	
LAB*LAB	47.72	0.0	0.0		
LAB*Lab	47.72	0.0	0.0		
LAB*Lab	47.72	0.0	0.0		
LAB*Lab	47.72	0.0	0.0		

relative Inform. Technology (IT)				
olv3*	0.75	0.5	0.5	(1.0)
cmv3*	0.25	0.5	0.5	(0.0)
olv4*	1.0	0.75	0.75	0.75
cmv4*	0.0	0.25	0.25	0.25
standard and adapted CIELAB				
LAB*LAB	60.33	19.23	16.14	
LAB*Lab	60.33	19.23	16.14	
LAB*TCHa	62.5	25.1	40.0	

Input: Colorimetric Television Luminous System TLS00

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

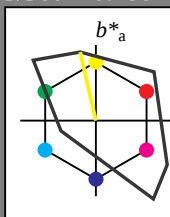
$lab \cdot tch$ and $lab \cdot nch$

D65: hue Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
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

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	94.71 -5.16 22.68
LAB*Lab	94.71 -5.16 22.68
LAB*TCHa	87.5 23.26 102.85

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	94.03 -10.34 45.37
LAB*Lab	94.03 -10.34 45.37
LAB*TCHa	75.0 46.53 102.85

relative Inform. Technology (IT)	
olv3*	1.0 1.0 0.25 (1.0)
cmyn3*	0.0 0.0 0.25 (0.0)
olv4*	1.0 1.0 0.25 (1.0)
cmyn4*	0.0 0.0 0.25 (0.0)
standard and adapted CIELAB	
LAB*LAB	93.34 -15.51 68.05
LAB*Lab	93.34 -15.51 68.05
LAB*TCHa	62.5 69.8 102.85

relative Inform. Technology (IT)	
olv3*	1.0 1.0 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	88.98 0.0 0.0
LAB*Lab	88.98 0.0 0.0
LAB*TCHa	75.0 0.0

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
cmyn3*	0.25 0.25 0.25 (0.0)
olv4*	1.0 1.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	71.57 0.0 0.0
LAB*Lab	71.57 0.0 0.0
LAB*TCHa	75.0 0.01

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 (1.0)
cmyn4*	0.0 0.0 0.25 (0.0)
standard and adapted CIELAB	
LAB*LAB	70.87 -5.17 22.69
LAB*Lab	70.87 -5.17 22.69
LAB*TCHa	62.5 23.27 102.85

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.25 (1.0)
cmyn3*	0.25 0.25 0.25 (0.0)
olv4*	1.0 1.0 0.5 (1.0)
cmyn4*	0.0 0.0 0.25 (0.0)
standard and adapted CIELAB	
LAB*LAB	70.19 -10.34 45.38
LAB*Lab	70.19 -10.34 45.38
LAB*TCHa	50.0 46.54 102.85

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.0 (1.0)
cmyn3*	0.25 0.25 0.0 (0.0)
olv4*	1.0 1.0 0.25 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	69.5 -15.51 68.05
LAB*Lab	69.5 -15.51 68.05
LAB*TCHa	37.5 69.8 102.85

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	62.5 0.0 0.0
LAB*Lab	62.5 0.0 0.0
LAB*TCHa	50.0 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 0.5 (1.0)
cmyn4*	0.0 0.0 0.5 (0.0)
standard and adapted CIELAB	
LAB*LAB	47.72 0.0 0.0
LAB*Lab	47.72 0.0 0.0
LAB*TCHa	50.0 0.01

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.25 (1.0)
cmyn3*	0.5 0.5 0.25 (0.0)
olv4*	1.0 1.0 0.25 (1.0)
cmyn4*	0.0 0.0 0.25 (0.0)
standard and adapted CIELAB	
LAB*LAB	47.02 -5.17 22.69
LAB*Lab	47.02 -5.17 22.69
LAB*TCHa	37.5 23.27 102.85

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (1.0)
cmyn3*	0.5 0.5 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	46.34 -10.34 45.37
LAB*Lab	46.34 -10.34 45.37
LAB*TCHa	25.01 46.53 102.85

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	46.34 -10.34 45.37
LAB*Lab	46.34 -10.34 45.37
LAB*TCHa	25.01 46.53 102.85

relative Inform. Technology (IT)	
olv3*	0.5 0.5 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	46.34 -10.34 45.37
LAB*Lab	46.34 -10.34 45.37
LAB*TCHa	25.01 46.53 102.85

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 0.25 (1.0)
cmyn4*	0.0 0.0 0.75 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.75 0.75 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.5 0.5 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.5 0.5 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.25 0.25 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olv4*	1.0 1.0 0.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	23.87 0.0 0.0
LAB*Lab	23.87 0.0 0.0
LAB*TCHa	25.0 0.01

Input: Colorimetric Television Luminous System TLS00

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

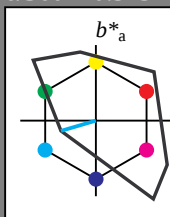
$lab \cdot tch$ and $lab \cdot nch$

D65: hue C

LCH*Ma: 87 48 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



$u^*_{rel} = 158$

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*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
cmv3* 0.25 0.0 0.0 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 93.27 -11.53 -3.38
LAB*LAB 93.27 -11.53 -3.38
LAB*LAB 93.27 -11.53 -3.38
LAB*LAB 93.27 -11.53 -3.38

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (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 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 69.43 -11.53 -3.38
LAB*LAB 69.43 -11.53 -3.38
LAB*LAB 69.43 -11.53 -3.38
LAB*LAB 69.43 -11.53 -3.38

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (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 47.72 0.0 0.0
LAB*LAB 47.72 0.0 0.0
LAB*LAB 47.72 0.0 0.0
LAB*LAB 47.72 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 45.26 -11.53 -3.38
LAB*LAB 45.26 -11.53 -3.38
LAB*LAB 45.26 -11.53 -3.38
LAB*LAB 45.26 -11.53 -3.38

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 21.73 -11.53 -3.38
LAB*LAB 21.73 -11.53 -3.38
LAB*LAB 21.73 -11.53 -3.38
LAB*LAB 21.73 -11.53 -3.38

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 12.5 12.03 196.37
LAB*LAB 12.5 12.03 196.37
LAB*LAB 12.5 12.03 196.37
LAB*LAB 12.5 12.03 196.37

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 0.5 1.0 1.0 (1.0)
cmv3* 0.5 0.0 0.0 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 91.14 -23.07 -6.77
LAB*LAB 91.14 -23.07 -6.77
LAB*LAB 91.14 -23.07 -6.77
LAB*LAB 91.14 -23.07 -6.77

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.75 (1.0)
cmv3* 0.5 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 89.0 -34.61 -10.16
LAB*LAB 89.0 -34.61 -10.16
LAB*LAB 89.0 -34.61 -10.16
LAB*LAB 89.0 -34.61 -10.16

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 86.87 -46.15 -13.55
LAB*LAB 86.87 -46.15 -13.55
LAB*LAB 86.87 -46.15 -13.55
LAB*LAB 86.87 -46.15 -13.55

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.0 -34.61 -10.16
LAB*LAB 80.0 -34.61 -10.16
LAB*LAB 80.0 -34.61 -10.16
LAB*LAB 80.0 -34.61 -10.16

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.16 -34.61 -10.16
LAB*LAB 65.16 -34.61 -10.16
LAB*LAB 65.16 -34.61 -10.16
LAB*LAB 65.16 -34.61 -10.16

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.51 36.09 196.37
LAB*LAB 37.51 36.09 196.37
LAB*LAB 37.51 36.09 196.37
LAB*LAB 37.51 36.09 196.37

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281

Output: Colorimetric Television Luminous System TLS70

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

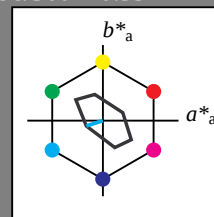
$lab \cdot tch$ and $lab \cdot nch$

D65: hue C

LCH*Ma: 91 23 198

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



$u^*_{rel} = 16$

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*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
cmv3* 0.25 0.0 0.0 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 94.29 -5.48 -1.76
LAB*LAB 94.29 -5.48 -1.76
LAB*LAB 94.29 -5.48 -1.76
LAB*LAB 94.29 -5.48 -1.76

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (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 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)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 87.86 -5.48 -1.76
LAB*LAB 87.86 -5.48 -1.76
LAB*LAB 87.86 -5.48 -1.76
LAB*LAB 87.86 -5.48 -1.76

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 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
LAB*LAB 82.56 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.0 -34.61 -10.16
LAB*LAB 80.0 -34.61 -10.16
LAB*LAB 80.0 -34.61 -10.16
LAB*LAB 80.0 -34.61 -10.16

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.16 -34.61 -10.16
LAB*LAB 65.16 -34.61 -10.16
LAB*LAB 65.16 -34.61 -10.16
LAB*LAB 65.16 -34.61 -10.16

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.5 5.77 197.87
LAB*LAB 37.5 5.77 197.87
LAB*LAB 37.5 5.77 197.87
LAB*LAB 37.5 5.77 197.87

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281

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* 0.5 1.0 1.0 (1.0)
cmv3* 0.5 0.0 0.0 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 93.17 -10.97 -3.53
LAB*LAB 93.17 -10.97 -3.53
LAB*LAB 93.17 -10.97 -3.53
LAB*LAB 93.17 -10.97 -3.53

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.75 (1.0)
cmv3* 0.5 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 91.33 -4.35 -0.244
LAB*LAB 91.33 -4.35 -0.244
LAB*LAB 91.33 -4.35 -0.244
LAB*LAB 91.33 -4.35 -0.244

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 86.74 -10.97 -3.53
LAB*LAB 86.74 -10.97 -3.53
LAB*LAB 86.74 -10.97 -3.53
LAB*LAB 86.74 -10.97 -3.53

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.32 -10.97 -3.53
LAB*LAB 80.32 -10.97 -3.53
LAB*LAB 80.32 -10.97 -3.53
LAB*LAB 80.32 -10.97 -3.53

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.16 -34.61 -10.16
LAB*LAB 65.16 -34.61 -10.16
LAB*LAB 65.16 -34.61 -10.16
LAB*LAB 65.16 -34.61 -10.16

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.5 5.77 197.87
LAB*LAB 37.5 5.77 197.87
LAB*LAB 37.5 5.77 197.87
LAB*LAB 37.5 5.77 197.87

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281

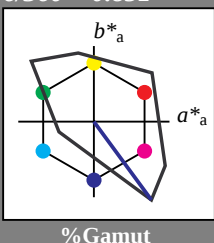
relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmv4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281
LAB*LAB 0.911 -0.958 -0.281

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*TCa 99.99 0.01

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*Lab 71.57 0.0 0.0
LAB*TCa 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 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*trj 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.851
lab*nce 0.0 0.25 0.851

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 55.31 19.01 -25.88
LAB*Lab 55.31 19.01 -25.88
LAB*TCa 62.5 32.12 306.29

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*trj 0.659 0.23 -0.443
lab*tce 0.75 0.5 0.851
lab*nce 0.0 0.5 0.851

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 31.46 19.01 -25.88
LAB*Lab 31.46 19.01 -25.88
LAB*TCa 37.5 32.12 306.29

relative CIELAB lab*
lab*lab 0.33 0.148 -0.201
lab*tch 0.375 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.33 0.115 -0.221
lab*tce 0.375 0.25 0.851
lab*nce 0.0 0.25 0.851

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 15.21 38.02 -51.78
LAB*Lab 15.21 38.02 -51.78
LAB*TCa 25.01 64.25 306.29

relative CIELAB lab*
lab*lab 0.159 0.23 -0.443
lab*tch 0.25 0.5 0.851
lab*nch 0.0 0.5 0.851
relative Natural Colour (NC)
lab*trj 0.159 0.23 -0.443
lab*tce 0.25 0.5 0.851
lab*nce 0.0 0.5 0.851

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 7.61 19.01 -25.88
LAB*Lab 7.61 19.01 -25.88
LAB*TCa 12.5 32.12 306.29

relative CIELAB lab*
lab*lab 0.08 0.148 -0.2
lab*tch 0.125 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.08 0.115 -0.221
lab*tce 0.125 0.25 0.851
lab*nce 0.0 0.25 0.851

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
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* 0.75 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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCa 0.0

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* 0.75 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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCa 0.0

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* 0.75 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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCa 0.0

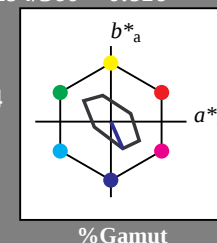
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 0.0 0.0 0.0

OE53-7, 5 step scales for constant CIELAB hue 306/360 = 0.851 (left)

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*TCa 99.99 0.01

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (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*TCa 95.00 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* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 75.00 0.0 0.0
LAB*Lab 75.00 0.0 0.0
LAB*TCa 95.00 0.0

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.00 0.0 0.0
LAB*Lab 50.00 0.0 0.0
LAB*TCa 95.00 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* 0.0 0.0 0.0 (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 25.00 0.0 0.0
LAB*Lab 25.00 0.0 0.0
LAB*TCa 95.00 0.0

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* 0.75 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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCa 95.00 0.0

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* 0.75 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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCa 95.00 0.0

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* 0.75 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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCa 95.00 0.0

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* 0.75 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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCa 95.00 0.0

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* 0.75 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 0.0 0.0 0.0
LAB*Lab 0.0 0.0 0.0
LAB*TCa 95.00 0.0

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

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

BAM-test chart OE53; Colorimetric systems ORS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

input: $cmY0^* setcmykcolor$
output: $Startup (S)$ data dependend

Input: Colorimetric Television Luminous System TLS00

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

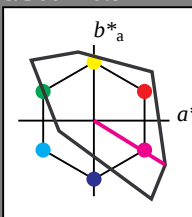
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
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
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(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	85.88	23.58	-14.59
LAB*LAB	85.88	23.58	-14.59
LAB*LAB	85.88	23.58	-14.59
LAB*LAB	85.88	23.58	-14.59

relative CIELAB lab*

lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177

relative Natural Colour (NC)

lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(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	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0

relative CIELAB lab*

lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177

relative Natural Colour (NC)

lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177
lab*lab	0.9	0.176	-0.177

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(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	62.03	23.59	-14.6
LAB*LAB	62.03	23.59	-14.6
LAB*LAB	62.03	23.59	-14.6
LAB*LAB	62.03	23.59	-14.6

relative CIELAB lab*

lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262

relative Natural Colour (NC)

lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(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	47.72	0.0	0.0
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	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262

relative Natural Colour (NC)

lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262
lab*lab	0.8	0.425	-0.262

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(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	38.18	23.59	-14.6
LAB*LAB	38.18	23.59	-14.6
LAB*LAB	38.18	23.59	-14.6
LAB*LAB	38.18	23.59	-14.6

relative CIELAB lab*

lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394

relative Natural Colour (NC)

lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(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	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0

relative CIELAB lab*

lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394

relative Natural Colour (NC)

lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394
lab*lab	0.7	0.638	-0.394

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(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	28.66	23.59	-14.6
LAB*LAB	28.66	23.59	-14.6
LAB*LAB	28.66	23.59	-14.6
LAB*LAB	28.66	23.59	-14.6

relative CIELAB lab*

lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352

relative Natural Colour (NC)

lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(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	14.34	23.58	-14.59
LAB*LAB	14.34	23.58	-14.59
LAB*LAB	14.34	23.58	-14.59
LAB*LAB	14.34	23.58	-14.59

relative CIELAB lab*

lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352

relative Natural Colour (NC)

lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352
lab*lab	0.6	0.528	-0.352

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(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	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

Output: Colorimetric Television Luminous System TLS70

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

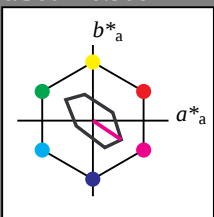
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 79 45 326

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



TLS70; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
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
LAB*LAB	95.41	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	91.18	9.38	-6.3
LAB*LABa	91.18	9.38	-6.3

Input: Colorimetric Television Luminous System TLS00

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

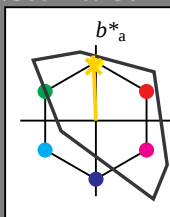
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0

triangle lightness t^*



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)
LAB*LAB	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	
LAB*Lab	99.99	0.01	0.0	

relative Inform. Technology (IT)

olvi3*	1.0	0.956	0.75	(1.0)
cmyn3*	0.0	0.044	0.25	(0.0)
olvi4*	1.0	0.956	0.75	(1.0)
cmyn4*	0.0	0.044	0.25	(0.0)
LAB*LAB	92.86	-0.87	21.53	
LAB*Lab	92.86	-0.87	21.53	
LAB*Lab	97.5	-21.54	92.33	

relative Inform. Technology (IT)

olvi3*	1.0	0.912	0.5	(1.0)
cmyn3*	0.0	0.088	0.5	(0.0)
olvi4*	1.0	0.912	0.5	(1.0)
cmyn4*	0.0	0.088	0.5	(0.0)
LAB*LAB	90.31	-1.74	43.06	
LAB*Lab	90.31	-1.74	43.06	
LAB*Lab	97.5	-43.09	92.32	

relative Inform. Technology (IT)

olvi3*	1.0	0.868	0.25	(1.0)
cmyn3*	0.0	0.132	0.25	(0.0)
olvi4*	1.0	0.868	0.25	(1.0)
cmyn4*	0.0	0.132	0.25	(0.0)
LAB*LAB	87.76	-2.61	64.59	
LAB*Lab	87.76	-2.61	64.59	
LAB*Lab	97.5	-64.64	92.32	

relative Inform. Technology (IT)

olvi3*	1.0	0.824	0.0	(1.0)
cmyn3*	0.0	0.176	0.0	(0.0)
olvi4*	1.0	0.824	0.0	(1.0)
cmyn4*	0.0	0.176	0.0	(0.0)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

1.00

0.75

$n^* = 0.00$

0.25

0.00

1.00

chromaticness c^*

Output: Colorimetric Television Luminous System TLS70

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

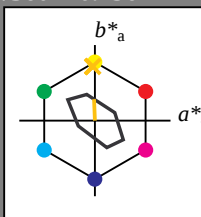
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness t^*



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)
LAB*LAB	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	
LAB*Lab	99.99	0.01	0.0	

relative Inform. Technology (IT)

olvi3*	1.0	0.935	0.75	(1.0)
cmyn3*	0.0	0.065	0.25	(0.0)
olvi4*	1.0	0.935	0.75	(1.0)
cmyn4*	0.0	0.065	0.25	(0.0)
LAB*LAB	93.9	-2.8	70.9	
LAB*Lab	93.9	-2.8	70.9	
LAB*Lab	97.5	-7.1	92.33	

relative Inform. Technology (IT)

olvi3*	1.0	0.875	0.25	(1.0)
cmyn3*	0.0	0.125	0.25	(0.0)
olvi4*	1.0	0.875	0.25	(1.0)
cmyn4*	0.0	0.125	0.25	(0.0)
LAB*LAB	88.98	0.0	0.0	
LAB*Lab	88.98	0.0	0.0	
LAB*Lab	97.5	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	1.0	0.868	0.25	(1.0)
cmyn3*	0.0	0.132	0.25	(0.0)
olvi4*	1.0	0.868	0.25	(1.0)
cmyn4*	0.0	0.132	0.25	(0.0)
LAB*LAB	87.76	-2.61	64.59	
LAB*Lab	87.76	-2.61	64.59	
LAB*Lab	97.5	-64.64	92.32	

relative Inform. Technology (IT)

olvi3*	1.0	0.824	0.0	(1.0)
cmyn3*	0.0	0.176	0.0	(0.0)
olvi4*	1.0	0.824	0.0	(1.0)
cmyn4*	0.0	0.176	0.0	(0.0)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

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)
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	97.5	-86.18	92.32	

$n^* = 0.50$

0.25

0.00

1.00

chromaticness c^*

OE53-7, 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 OE53; Colorimetric systems ORS18 & ORS18

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

input: $cm y0^* set cmykcolor$

output: *Startup (S) data dependend*

Input: Colorimetric Television Luminous System TLS00

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

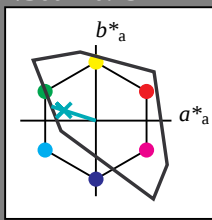
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 86 62 162

olv*Ma: 0.0 1.0 0.65

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	0.0
olv4*	0.75	0.75	0.75	1.0	0.0
olv5*	0.75	0.75	0.75	1.0	0.0
olv6*	0.75	0.75	0.75	1.0	0.0
olv7*	0.75	0.75	0.75	1.0	0.0
olv8*	0.75	0.75	0.75	1.0	0.0
olv9*	0.75	0.75	0.75	1.0	0.0
olv10*	0.75	0.75	0.75	1.0	0.0
olv11*	0.75	0.75	0.75	1.0	0.0
olv12*	0.75	0.75	0.75	1.0	0.0
olv13*	0.75	0.75	0.75	1.0	0.0
olv14*	0.75	0.75	0.75	1.0	0.0
olv15*	0.75	0.75	0.75	1.0	0.0
olv16*	0.75	0.75	0.75	1.0	0.0
olv17*	0.75	0.75	0.75	1.0	0.0
olv18*	0.75	0.75	0.75	1.0	0.0
olv19*	0.75	0.75	0.75	1.0	0.0
olv20*	0.75	0.75	0.75	1.0	0.0
olv21*	0.75	0.75	0.75	1.0	0.0
olv22*	0.75	0.75	0.75	1.0	0.0
olv23*	0.75	0.75	0.75	1.0	0.0
olv24*	0.75	0.75	0.75	1.0	0.0
olv25*	0.75	0.75	0.75	1.0	0.0
olv26*	0.75	0.75	0.75	1.0	0.0
olv27*	0.75	0.75	0.75	1.0	0.0
olv28*	0.75	0.75	0.75	1.0	0.0
olv29*	0.75	0.75	0.75	1.0	0.0
olv30*	0.75	0.75	0.75	1.0	0.0
olv31*	0.75	0.75	0.75	1.0	0.0
olv32*	0.75	0.75	0.75	1.0	0.0
olv33*	0.75	0.75	0.75	1.0	0.0
olv34*	0.75	0.75	0.75	1.0	0.0
olv35*	0.75	0.75	0.75	1.0	0.0
olv36*	0.75	0.75	0.75	1.0	0.0
olv37*	0.75	0.75	0.75	1.0	0.0
olv38*	0.75	0.75	0.75	1.0	0.0
olv39*	0.75	0.75	0.75	1.0	0.0
olv40*	0.75	0.75	0.75	1.0	0.0
olv41*	0.75	0.75	0.75	1.0	0.0
olv42*	0.75	0.75	0.75	1.0	0.0
olv43*	0.75	0.75	0.75	1.0	0.0
olv44*	0.75	0.75	0.75	1.0	0.0
olv45*	0.75	0.75	0.75	1.0	0.0
olv46*	0.75	0.75	0.75	1.0	0.0
olv47*	0.75	0.75	0.75	1.0	0.0
olv48*	0.75	0.75	0.75	1.0	0.0
olv49*	0.75	0.75	0.75	1.0	0.0
olv50*	0.75	0.75	0.75	1.0	0.0
olv51*	0.75	0.75	0.75	1.0	0.0
olv52*	0.75	0.75	0.75	1.0	0.0
olv53*	0.75	0.75	0.75	1.0	0.0
olv54*	0.75	0.75	0.75	1.0	0.0
olv55*	0.75	0.75	0.75	1.0	0.0
olv56*	0.75	0.75	0.75	1.0	0.0
olv57*	0.75	0.75	0.75	1.0	0.0
olv58*	0.75	0.75	0.75	1.0	0.0
olv59*	0.75	0.75	0.75	1.0	0.0
olv60*	0.75	0.75	0.75	1.0	0.0
olv61*	0.75	0.75	0.75	1.0	0.0
olv62*	0.75	0.75	0.75	1.0	0.0
olv63*	0.75	0.75	0.75	1.0	0.0
olv64*	0.75	0.75	0.75	1.0	0.0
olv65*	0.75	0.75	0.75	1.0	0.0
olv66*	0.75	0.75	0.75	1.0	0.0
olv67*	0.75	0.75	0.75	1.0	0.0
olv68*	0.75	0.75	0.75	1.0	0.0
olv69*	0.75	0.75	0.75	1.0	0.0
olv70*	0.75	0.75	0.75	1.0	0.0
olv71*	0.75	0.75	0.75	1.0	0.0
olv72*	0.75	0.75	0.75	1.0	0.0
olv73*	0.75	0.75	0.75	1.0	0.0
olv74*	0.75	0.75	0.75	1.0	0.0
olv75*	0.75	0.75	0.75	1.0	0.0
olv76*	0.75	0.75	0.75	1.0	0.0
olv77*	0.75	0.75	0.75	1.0	0.0
olv78*	0.75	0.75	0.75	1.0	0.0
olv79*	0.75	0.75	0.75	1.0	0.0
olv80*	0.75	0.75	0.75	1.0	0.0
olv81*	0.75	0.75	0.75	1.0	0.0
olv82*	0.75	0.75	0.75	1.0	0.0
olv83*	0.75	0.75	0.75	1.0	0.0
olv84*	0.75	0.75	0.75	1.0	0.0
olv85*	0.75	0.75	0.75	1.0	0.0
olv86*	0.75	0.75	0.75	1.0	0.0
olv87*	0.75	0.75	0.75	1.0	0.0
olv88*	0.75	0.75	0.75	1.0	0.0
olv89*	0.75	0.75	0.75	1.0	0.0
olv90*	0.75	0.75	0.75	1.0	0.0
olv91*	0.75	0.75	0.75	1.0	0.0
olv92*	0.75	0.75	0.75	1.0	0.0
olv93*	0.75	0.75	0.75	1.0	0.0
olv94*	0.75	0.75	0.75	1.0	0.0
olv95*	0.75	0.75	0.75	1.0	0.0
olv96*	0.75	0.75	0.75	1.0	0.0
olv97*	0.75	0.75	0.75	1.0	0.0
olv98*	0.75	0.75	0.75	1.0	0.0
olv99*	0.75	0.75	0.75	1.0	0.0
olv100*	0.75	0.75	0.75	1.0	0.0

relative Inform. Technology (IT)				
olv3*	0.75	1.0	0.913	(1.0)
cmyn3*	0.25	0.0	0.087	(0.0)
olv4*	0.75	1.0	0.913	1.0
cmyn4*	0.25	0.0	0.087	0.0
standard and adapted CIELAB				
LAB*LAB	92.99	-14.7	4.71	
LAB*LAB _a	92.99	-14.7	4.71	

output: *Startup (S)* data dependenc