

Input: Colorimetric Television Luminous System TLS70

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

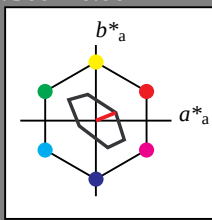
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 76 28 22

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



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
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)
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

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.75	(1.0)
cmv3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmv4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	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)

olv3*	1.0	0.5	0.5	(1.0)
cmv3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	0.5	0.5	(1.0)
cmv4*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	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)

olv3*	1.0	0.25	0.25	(1.0)
cmv3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
cmv4*	0.0	0.25	0.25	(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

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	75.0	0.0	0.0
LAB*LAB	75.0	0.0	0.0
LAB*LAB	75.0	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*	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

relative Inform. Technology (IT)

olv3*	0.75	0.5	0.5	(1.0)
cmv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmv4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

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

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
cmv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	0.5	0.5	(1.0)
cmv4*	0.0	0.25	0.25	(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

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmv3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
cmv4*	0.0	0.0	0.0	(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

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmv3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	70.0	0.0	0.0
LAB*LAB	70.0	0.0	0.0
LAB*LAB	70.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
cmv3*	0.5	0.5	0.5	(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	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*	0.5	0.25	0.25	(1.0)
cmv3*	0.5	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmv4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	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)

olv3*	0.5	0.0	0.0	(1.0)
cmv3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.5	0.5	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	73.07	13.13	5.28
LAB*LAB	73.07	13.13	5.28
LAB*LAB	73.07	13.13	5.28

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmv3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	68.17	19.7	7.93
LAB*LAB	68.17	19.7	7.93
LAB*LAB	68.17	19.7	7.93

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmv3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	63.25	0.0	0.0
LAB*LAB	63.25	0.0	0.0
LAB*LAB	63.25	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmv3*	0.75	0.75	0.75	(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	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)

olv3*	0.25	0.0	0.0	(1.0)
cmv3*	0.75	0.0	0.0	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	71.28	6.56	2.64
LAB*LAB	71.28	6.56	2.64
LAB*LAB	71.28	6.56	2.64

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.0	(1.0)
cmv3*	0.75	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	66.25	13.13	5.28
LAB*LAB	66.25	13.13	5.28
LAB*LAB	66.25	13.13	5.28

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.0	(1.0)
cmv3*	0.75	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	61.32	19.7	7.93
LAB*LAB	61.32	19.7	7.93
LAB*LAB	61.32	19.7	7.93

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.0	(1.0)
cmv3*	0.75	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.40	0.0	0.0
LAB*LAB	56.40	0.0	0.0
LAB*LAB	56.40	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	1.0	1.0	(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	95.0	0.0	0.0
LAB*LAB	95.0	0.0	0.0
LAB*LAB	95.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	90.0	0.0	0.0
LAB*LAB	90.0	0.0	0.0
LAB*LAB	90.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	85.0	0.0	0.0
LAB*LAB	85.0	0.0	0.0
LAB*LAB	85.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	80.0	0.0	0.0
LAB*LAB	80.0	0.0	0.0
LAB*LAB	80.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	75.0	0.0	0.0
LAB*LAB	75.0	0.0	0.0
LAB*LAB	75.0	0.0	0.0

OE59-7, 5 step scales for constant CIELAB hue 22/360 = 0.061 (left)

5 step scales for constant CIELAB hue 22/360 = 0.061 (right)

BAM-test chart OE59; Colorimetric systems TLS70 & TLS70

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

input: $cmv0^* setcmykcolor$

output: no change compared to input

	L	V
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See for similar files: <http://www.ps.bam.de/OE59/>
Technical information: <http://www.ps.bam.de> Version 2.1, io=0,0

Page count: 3

www.ps.bam.de/OE59/10S/S59E02NP.PS/.PDF; start output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

BAM registration: 20060101-OE59/10S/S59E02NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
/OE59/ Form 3/10, Serie: 1/1, Page: 3
BAM material: code=rh4ta

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 142/360 = 0.395$

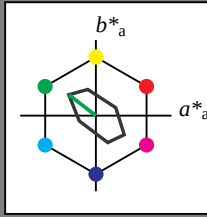
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 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)

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LABa	95.41	0.0	0.0
LAB*LABb	95.41	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	93.89	-8.94	6.91
LAB*LABa	93.89	-8.94	6.91
LAB*LABb	93.89	-8.94	6.91

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.75	(1.0)
cmyn3*	0.25	0.5	0.25	(0.0)
olvi4*	0.75	0.5	0.75	(1.0)
cmyn4*	0.25	0.5	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	88.98	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*	0.5	0.5	0.5	(1.0)
cmyn4*	0.5	0.5	0.5	(0.0)

standard and adapted CIELAB

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	69.07	0.0	0.0
LAB*LABa	69.07	0.0	0.0
LAB*LABb	69.07	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	50.00	0.0	0.0
LAB*LABa	50.00	0.0	0.0
LAB*LABb	50.00	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.0	0.75	(1.0)
cmyn3*	0.25	0.0	0.25	(0.0)
olvi4*	0.75	0.0	0.75	(1.0)
cmyn4*	0.25	0.0	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	88.98	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
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)

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

standard and adapted CIELAB

LAB*LAB	92.36	-17.89	13.82
LAB*LABa	92.36	-17.89	13.82
LAB*LABb	92.36	-17.89	13.82

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	84.42	-26.84	20.73
LAB*LABa	84.42	-26.84	20.73
LAB*LABb	84.42	-26.84	20.73

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.75	(1.0)
cmyn3*	0.25	0.5	0.25	(0.0)
olvi4*	0.75	0.5	0.75	(1.0)
cmyn4*	0.25	0.5	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	88.98	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*	0.5	0.5	0.5	(1.0)
cmyn4*	0.5	0.5	0.5	(0.0)

standard and adapted CIELAB

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	69.07	0.0	0.0
LAB*LABa	69.07	0.0	0.0
LAB*LABb	69.07	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	50.00	0.0	0.0
LAB*LABa	50.00	0.0	0.0
LAB*LABb	50.00	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.0	0.75	(1.0)
cmyn3*	0.25	0.0	0.25	(0.0)
olvi4*	0.75	0.0	0.75	(1.0)
cmyn4*	0.25	0.0	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	88.98	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	92.36	-17.89	13.82
LAB*LABa	92.36	-17.89	13.82
LAB*LABb	92.36	-17.89	13.82

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	84.42	-26.84	20.73
LAB*LABa	84.42	-26.84	20.73
LAB*LABb	84.42	-26.84	20.73

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.75	(1.0)
cmyn3*	0.25	0.5	0.25	(0.0)
olvi4*	0.75	0.5	0.75	(1.0)
cmyn4*	0.25	0.5	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	88.98	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*	0.5	0.5	0.5	(1.0)
cmyn4*	0.5	0.5	0.5	(0.0)

standard and adapted CIELAB

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LABa	95.41	0.0	0.0
LAB*LABb	95.41	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	93.89	-8.94	6.91
LAB*LABa	93.89	-8.94	6.91
LAB*LABb	93.89	-8.94	6.91

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

LAB*LAB	82.56	0.0	0.0
LAB*LABa	82.56	0.0	0.0
LAB*YCbCr	50.0	0.0	-
relative CIELAB lab*			
lab*lab	0.5	0.0	0.0
lab*ych	0.5	0.0	-
lab*nch	0.5	0.0	-
relative Natural Colors (NC)			

output: *no change compared to input*

Input: Colorimetric Television Luminous System TLS70

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

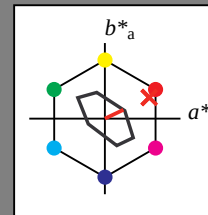
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 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)
olvi5*	1.0	1.0	1.0	(1.0)
olvi5*	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	0.762	0.75	(1.0)
olvi3*	0.0	0.238	0.25	(0.0)
olvi4*	1.0	0.762	0.75	(1.0)
olvi4*	0.0	0.238	0.25	(0.0)
olvi5*	1.0	0.762	0.75	(1.0)
olvi5*	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
LAB*LAB	90.87	6.13	2.92

relative Inform. Technology (IT)

olvi3*	1.0	0.523	0.5	(1.0)
olvi3*	0.0	0.477	0.5	(0.0)
olvi4*	1.0	0.523	0.5	(1.0)
olvi4*	0.0	0.477	0.5	(0.0)
olvi5*	1.0	0.523	0.5	(1.0)
olvi5*	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
LAB*LAB	86.33	12.27	5.85

relative Inform. Technology (IT)

olvi3*	1.0	0.285	0.25	(1.0)
olvi3*	0.0	0.715	0.25	(0.0)
olvi4*	1.0	0.285	0.25	(1.0)
olvi4*	0.0	0.715	0.25	(0.0)
olvi5*	1.0	0.285	0.25	(1.0)
olvi5*	0.0	0.715	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	81.79	18.4	8.77
LAB*LAB	81.79	18.4	8.77
LAB*LAB	81.79	18.4	8.77
LAB*LAB	81.79	18.4	8.77

relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69

relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69

relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69

relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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LAB*LAB	77.25	24.54	11.69

relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
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olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69

relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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LAB*LAB	77.25	24.54	11.69

relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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olvi3*	0.0	0.953	0.0	(0.0)
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olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
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standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
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relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
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olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
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relative Inform. Technology (IT)

olvi3*	1.0	0.047	0.0	(1.0)
olvi3*	0.0	0.953	0.0	(0.0)
olvi4*	1.0	0.047	0.0	(1.0)
olvi4*	0.0	0.953	0.0	(0.0)
olvi5*	1.0	0.047	0.0	(1.0)
olvi5*	0.0	0.953	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69
LAB*LAB	77.25	24.54	11.69

OE59-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

BAM-test chart OE59; Colorimetric systems TLS70 & TLS70

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

input: cmy0* setcmykcolor

output: no change compared to input

Input: Colorimetric Television Luminous System TLS70

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

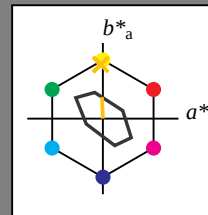
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

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 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)
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
LAB*LAB	88.98	0.0	0.0

relative CIELAB lab*

lab*lab	0.941	0.0	0.25
lab*lab	0.875	0.25	0.256
lab*lab	0.875	0.25	0.256
lab*lab	0.875	0.25	0.256

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(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
LAB*LAB	87.48	-0.28	7.09

relative CIELAB lab*

lab*lab	0.883	-0.019	0.499
lab*lab	0.875	0.25	0.256
lab*lab	0.875	0.25	0.256
lab*lab	0.875	0.25	0.256

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	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	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 CIELAB lab*

lab*lab	0.691	0.0	0.25
lab*lab	0.625	0.25	0.256
lab*lab	0.625	0.25	0.256
lab*lab	0.625	0.25	0.256

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	81.05	-0.28	7.09
LAB*LAB	81.05	-0.28	7.09
LAB*LAB	81.05	-0.28	7.09
LAB*LAB	81.05	-0.28	7.09

relative CIELAB lab*

lab*lab	0.633	0.0	0.5
lab*lab	0.625	0.25	0.256
lab*lab	0.625	0.25	0.256
lab*lab	0.625	0.25	0.256

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	79.54	-0.56	14.19
LAB*LAB	79.54	-0.56	14.19
LAB*LAB	79.54	-0.56	14.19
LAB*LAB	79.54	-0.56	14.19

relative CIELAB lab*

lab*lab	0.441	-0.029	0.749
lab*lab	0.375	0.25	0.256
lab*lab	0.375	0.25	0.256
lab*lab	0.375	0.25	0.256

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	74.62	-0.28	7.09
LAB*LAB	74.62	-0.28	7.09
LAB*LAB	74.62	-0.28	7.09
LAB*LAB	74.62	-0.28	7.09

relative CIELAB lab*

lab*lab	0.383	-0.019	0.499
lab*lab	0.375	0.25	0.256
lab*lab	0.375	0.25	0.256
lab*lab	0.375	0.25	0.256

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(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	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0
LAB*LAB	69.7	0.0	0.0

relative CIELAB lab*

lab*lab	0.191	-0.009	0.25
lab*lab	0.125	0.25	0.256
lab*lab	0.125	0.25	0.256
lab*lab	0.125	0.25	0.256

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(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	65.0	0.0	0.0
LAB*LAB	65.0	0.0	0.0
LAB*LAB	65.0	0.0	0.0
LAB*LAB	65.0	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

OE59-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

BAM-test chart OE59; Colorimetric systems TLS70 & TLS70

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

Output: Colorimetric Television Luminous System TLS70

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

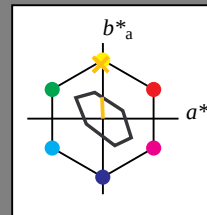
$lab \cdot tch$ and $lab \cdot nch$

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

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 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)
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
LAB*LAB	88.98	0.0	0.0

relative CIELAB lab*

lab*lab	0.941	0.0	0.25
lab*lab	0.875	0.25	0.256
lab*lab	0.875	0.25	0.256
lab*lab	0.875	0.25	0.256

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)
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olv5*	0.0	0.0	0.0	(0.0)

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olv3*	0.5	0.5	0.5	(0.0)
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olv4*	0.0	0.0	0.0	(0.0)
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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)

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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)

