

Input: Colorimetric Television Luminous System TLS00

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

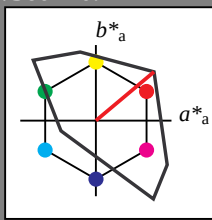
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



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 0.882 0.191 0.161
lab*tch 0.875 0.25 0.111
lab*nch 0.0 0.25 0.111
relative Natural Colour (NC)
lab*trj 0.882 0.235 0.084
lab*tce 0.875 0.25 0.054
lab*nce 0.0 0.25 0.121

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*Lab 47.72 0.0 0.0
LAB*TCa 50.00 0.01

relative CIELAB lab*
lab*lab 0.632 0.192 0.161
lab*tch 0.625 0.25 0.111
lab*nch 0.0 0.25 0.111
relative Natural Colour (NC)
lab*trj 0.632 0.235 0.084
lab*tce 0.625 0.25 0.054
lab*nce 0.0 0.25 0.121

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
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 23.87 0.0 0.0
LAB*Lab 23.87 0.0 0.0
LAB*TCa 25.00 0.01

relative CIELAB lab*
lab*lab 0.382 0.192 0.161
lab*tch 0.375 0.25 0.111
lab*nch 0.0 0.25 0.111
relative Natural Colour (NC)
lab*trj 0.382 0.235 0.084
lab*tce 0.375 0.25 0.054
lab*nce 0.0 0.25 0.121

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 12.64 12.64 12.64
LAB*Lab 12.64 12.64 12.64
LAB*TCa 12.64 12.64 12.64

relative CIELAB lab*
lab*lab 0.132 0.191 0.161
lab*tch 0.125 0.25 0.111
lab*nch 0.0 0.25 0.111
relative Natural Colour (NC)
lab*trj 0.132 0.235 0.084
lab*tce 0.125 0.25 0.054
lab*nce 0.0 0.25 0.121

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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.03 0.03
LAB*Lab 0.03 0.03 0.03
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 1.0 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 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.03
LAB*Lab 0.03 0.03 0.03
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 1.0 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 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.03
LAB*Lab 0.03 0.03 0.03
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 1.0 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 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.03
LAB*Lab 0.03 0.03 0.03
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 1.0 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 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.03
LAB*Lab 0.03 0.03 0.03
LAB*TCa 0.01

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 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 0.03 0.03
LAB*Lab 0.03 0.03 0.03
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 1.0 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 1.0 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
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

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.25$

$n^* = 1.50$

$n^* = 1.75$

$n^* = 2.00$

$n^* = 2.25$

$n^* = 2.50$

$n^* = 2.75$

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$n^* = 3.75$

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$n^* = 35.00$

$n^* = 35.25$

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See for similar files: <http://www.ps.bam.de/OE53/>
Technical information: <http://www.ps.bam.de> Version 2.1, io=0.0

Page count: 2

www.ps.bam.de/OE53/10L/L53E01NP.PS/.PDF; start output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

BAM registration: 20060101-OE53/10L/L53E01NP.PS/.PDF
BAM material: code=rh4ta
application for evaluation and measurement of printer or monitor systems
/OE53/ Form 2/10, Serie: 1/1, Page: 2

Input: Colorimetric Television Luminous System TLS00

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

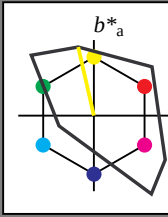
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



$u^*_{rel} = 158$

TLS00; adapted (a) CIELAB data

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

%Regularity

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

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

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*LABa	95.41	0.0	0.0
LAB*LABb	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	-
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*trj	1.0	0.0	-
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

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	94.71	-5.16	22.68
LAB*LABa	94.71	-5.16	22.68
LAB*LABb	97.5	-12.26	102.85

relative CIELAB lab*

lab*lab	0.993	-0.055	0.244
lab*tch	0.875	0.25	0.286
lab*nch	0.0	0.25	0.286

relative Natural Colour (NC)

lab*trj	0.993	-0.058	0.243
lab*tce	0.875	0.25	0.286
lab*nce	0.0	0.25	0.286

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*LABa	94.03	-10.34	45.37
LAB*LABb	97.0	-17.26	102.85

relative CIELAB lab*

lab*lab	0.985	-0.11	0.487
lab*tch	0.75	0.5	0.286
lab*nch	0.0	0.5	0.286

relative Natural Colour (NC)

lab*trj	0.985	-0.116	0.486
lab*tce	0.75	0.5	0.286
lab*nce	0.0	0.5	0.286

relative Inform. Technology (IT)

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*LABa	93.34	-15.51	68.05
LAB*LABb	96.5	-23.26	102.85

relative CIELAB lab*

lab*lab	0.978	-0.166	0.731
lab*tch	0.625	0.75	0.286
lab*nch	0.0	0.75	0.286

relative Natural Colour (NC)

lab*trj	0.978	-0.175	0.729
lab*tce	0.625	0.75	0.286
lab*nce	0.0	0.75	0.286

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	92.65	-20.69	90.73
LAB*LABa	92.65	-20.69	90.73
LAB*LABb	95.0	-37.06	102.85

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
cmyn3*	0.0	0.0	0.0	(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	82.56	-3.04	0.0
LAB*LABa	82.56	-3.04	0.0
LAB*LABb	50.0	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	-
lab*tch	0.5	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*trj	0.5	0.0	-
lab*tce	0.5	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
cmyn3*	0.0	0.0	0.0	(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	82.56	-3.04	0.0
LAB*LABa	82.56	-3.04	0.0
LAB*LABb	50.0	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	-
lab*tch	0.5	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*trj	0.5	0.0	-
lab*tce	0.5	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	0.75	(1.0)
cmyn4*	0.0	0.0	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	88.61	-2.68	8.66
LAB*LABa	88.61	-2.68	8.66
LAB*LABb	90.0	0.0	0.0

relative CIELAB lab*

lab*lab	0.75	0.0	-
lab*tch	0.75	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*trj	0.75	0.0	-
lab*tce	0.75	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

olv3*	0.75	0.75	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	88.24	-5.38	17.32
LAB*LABa	88.24	-5.38	17.32
LAB*LABb	90.0	0.0	0.0

relative CIELAB lab*

lab*lab	0.721	-0.147	0.477
lab*tch	0.5	0.5	0.286
lab*nch	0.0	0.5	0.286

relative Natural Colour (NC)

lab*trj	0.721	-0.164	0.472
lab*tce	0.5	0.5	0.286
lab*nce	0.0	0.5	0.286

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	87.87	-8.07	25.97
LAB*LABa	87.87	-8.07	25.97
LAB*LABb	90.0	0.0	0.0

relative CIELAB lab*

lab*lab	0.942	-0.296	0.955
lab*tch	0.5	0.5	0.286
lab*nch	0.0	0.5	0.286

relative Natural Colour (NC)

lab*trj	0.942	-0.329	0.944
lab*tce	0.5	0.5	0.286
lab*nce	0.0	0.5	0.286

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.0	0.0	0.0	(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	23.87	-10.34	45.37
LAB*LABa	23.87	-10.34	45.37
LAB*LABb	25.0	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.0	-
lab*tch	0.25	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*trj	0.25	0.0	-
lab*tce	0.25	0.0	-
lab*nce	0.0	0.0	-

relative CIELAB lab*

lab*lab	0.493	-0.055	0.24
lab*tch	0.375	0.25	0.286
lab*nch	0.5	0.25	0.286

relative Natural Colour (NC)

lab*lrj	0.493	-0.058	0.243
lab*tce	0.375	0.25	0.288
lab*nce	0.5	0.25	0.286

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	0.5	(1.0)
cmyn4*	0.0	0.0	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	46.34	-10.34	45.37
LAB*LABa	46.34	-10.34	45.37
LAB*LABb	46.34	-10.34	45.37

relative CIELAB lab*

lab*lab	0.736	-0.116	0.486
lab*tch	0.5	0.5	0.286
lab*nch	0.0	0.5	0.286

relative Natural Colour (NC)

lab*trj	0.736	-0.116	0.486
lab*tce	0.5	0.5	0.286
lab*nce	0.0	0.5	0.286

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	0.75	(1.0)
cmyn4*	0.0	0.0	0.75	(0.0)

standard and adapted CIELAB

LAB*LAB	93.34	-15.51	68.05
LAB*LABa	93.34	-15.51	68.05
LAB*LABb	96.5	-23.26	102.85

relative CIELAB lab*

lab*lab	0.728	-0.166	0.731
lab*tch	0.375	0.75	0.286
lab*nch	0.0	0.75	0.286

relative Natural Colour (NC)

lab*trj	0.728	-0.175	0.729
lab*tce	0.375	0.75	0.286
lab*nce	0.0	0.75	0.286

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.0	0.0	0.0	(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	23.87	-10.34	45.37
LAB*LABa	23.87	-10.34	45.37
LAB*LABb	25.0	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.0	-
lab*tch	0.25	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*trj	0.25	0.0	-
lab*tce	0.25	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.0	0.0	0.0	(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	23.87	-10.34	45.37
LAB*LABa	23.87	-10.34	45.37
LAB*LABb	25.0	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.0	-
lab*tch	0.25	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*trj	0.25	0.0	-
lab*tce	0.25	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.0	0.0	0.0	(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	23.87	-10.34	45.37
LAB*LABa	23.87	-10.34	45.37
LAB*LABb	25.0	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.0	-
lab*tch	0.25	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*trj	0.25	0.0	-
lab*tce	0.25	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
cmyn3*	0.0	0.0	0.0	(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

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 136/360 = 0.378$

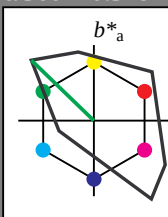
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 84 115 136

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

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 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*TCha	75.00	0.01		

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*tch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*trj	0.75	0.0	0.0	
lab*tce	0.75	0.0	0.0	
lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
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	47.72	0.0	0.0	
LAB*Lab	47.72	0.0	0.0	
LAB*TCha	50.00	0.01		

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	23.87	0.0	0.0	
LAB*Lab	23.87	0.0	0.0	
LAB*TCha	25.00	0.01		

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*	1.0	1.0	1.0	(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	0.03	0.0	0.0	
LAB*Lab	0.03	0.0	0.0	
LAB*TCha	0.01			

relative CIELAB lab*

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

$n^* = 1.0$

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
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*	0.5	1.0	0.5	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olv4*	0.5	1.0	0.5	(1.0)
cmyn4*	0.5	0.0	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	89.51	-41.36	39.94	
LAB*Lab	89.51	-41.36	39.94	
LAB*TCha	75.00	57.51	136.01	

relative CIELAB lab*

lab*lab	0.938	-0.359	0.347	
lab*tch	0.75	0.5	0.378	
lab*nch	0.0	0.5	0.378	
relative Natural Colour (NC)				
lab*trj	0.938	-0.415	0.278	
lab*tce	0.75	0.5	0.406	
lab*nce	0.0	0.5	0.406	

relative Inform. Technology (IT)

olv3*	0.25	0.75	0.25	(1.0)
cmyn3*	0.75	0.25	0.75	(0.0)
olv4*	0.5	1.0	0.5	(1.0)
cmyn4*	0.5	0.0	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	65.67	-41.37	39.95	
LAB*Lab	65.67	-41.37	39.95	
LAB*TCha	50.00	57.52	136.01	

relative CIELAB lab*

lab*lab	0.688	-0.359	0.347	
lab*tch	0.5	0.5	0.378	
lab*nch	0.0	0.5	0.378	
relative Natural Colour (NC)				
lab*trj	0.688	-0.415	0.278	
lab*tce	0.5	0.5	0.406	
lab*nce	0.0	0.5	0.406	

relative Inform. Technology (IT)

olv3*	0.0	0.5	0.0	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olv4*	0.0	0.5	0.0	(1.0)
cmyn4*	0.5	0.0	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	41.82	-41.36	39.94	
LAB*Lab	41.82	-41.36	39.94	
LAB*TCha	25.01	57.51	136.01	

relative CIELAB lab*

lab*lab	0.438	-0.359	0.347	
lab*tch	0.25	0.5	0.378	
lab*nch	0.0	0.5	0.378	
relative Natural Colour (NC)				
lab*trj	0.438	-0.415	0.278	
lab*tce	0.25	0.5	0.406	
lab*nce	0.0	0.5	0.406	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	0.5	0.0	(0.0)
olv4*	0.0	0.0	0.0	(1.0)
cmyn4*	1.0	0.5	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	0.03	-0.207	0.139	
LAB*Lab	0.03	-0.207	0.139	
LAB*TCha	0.01			

relative CIELAB lab*

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

$n^* = 0.50$

$n^* = 0.00$

$n^* = 0.25$

blackness n^*

chromaticness c^*

0.00

0.25

0.50

0.75

1.00

1.25

1.50

1.75

2.00

0.00

0.25

0.50

0.75

1.00

1.25

1.50

1.75

2.00

2.25

2.50

2.75

3.00

3.25

3.50

3.75

4.00

4.25

4.50

4.75

5.00

5.25

5.50

5.75

6.00

6.25

6.50

6.75

7.00

7.25

7.50

7.75

8.00

8.25

8.50

8.75

9.00

9.25

9.50

9.75

10.00

10.25

10.50

10.75

11.00

11.25

11.50

11.75

12.00

12.25

12.50

12.75

13.00

13.25

13.50

13.75

14.00

14.25

14.50

14.75

15.00

15.25

15.50

15.75

16.00

16.25

16.50

16.75

17.00

17.25

17.50

17.75

18.00

18.25

18.50

18.75

19.00

19.25

19.50

19.75

20.00

20.25

20.50

20.75

21.00

21.25

21.50

21.75

22.00

22.25

22.50

22.75

23.00

23.25

Input: Colorimetric Television Luminous System TLS00

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

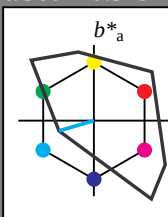
lab^*tch and lab^*nch

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
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)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*Lab 95.41 0.0 0.0
LAB*TCh 99.99 0.01

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

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

relative CIELAB lab*
lab*lab 0.978 -0.239 -0.069
lab*tch 0.875 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.978 -0.239 -0.069
lab*tce 0.875 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
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 47.72 0.0 0.0
LAB*Lab 47.72 0.0 0.0
LAB*TCh 50.00 0.01

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*Lab 23.87 0.0 0.0
LAB*TCh 25.00 0.01

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.375 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.25 (0.0)
lab*tce 0.375 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

OE530-7, 5 step scales for constant CIELAB hue 196/360 = 0.545 (left)

BAM-test chart OE53; Colorimetric systems TLS00 & TLS70

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

Output: Colorimetric Television Luminous System TLS70

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

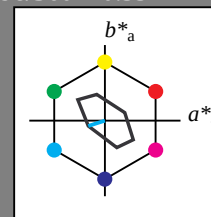
lab^*tch and lab^*nch

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
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)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*Lab 95.41 0.0 0.0
LAB*TCh 99.99 0.01

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

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

relative CIELAB lab*
lab*lab 0.978 -0.239 -0.069
lab*tch 0.875 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.978 -0.239 -0.069
lab*tce 0.875 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
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 47.72 0.0 0.0
LAB*Lab 47.72 0.0 0.0
LAB*TCh 50.00 0.01

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*Lab 23.87 0.0 0.0
LAB*TCh 25.00 0.01

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.375 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.25 0.25 0.25 (0.0)
lab*tce 0.375 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
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*TCh 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0 (0.0)
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

5 step scales for constant CIELAB hue 198/360 = 0.55 (right)

input: cmy0* setcmykcolor

output: no change compared to input

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 306/360 = 0.851$

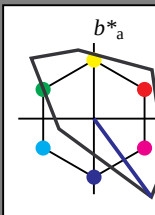
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 30 129 306

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*ABa	95.41	0.0	0.0
LAB*TCha	99.99	0.01	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0

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	1.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	71.57	0.0	0.0
LAB*ABa	71.57	0.0	0.0
LAB*TCha	75.00	0.01	0.0

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*tch	0.75	0.0	0.0
lab*nch	0.75	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	0.75	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	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*ABa	47.72	0.0	0.0
LAB*TCha	50.00	0.01	0.0

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	0.0
lab*nch	0.5	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	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	23.87	0.0	0.0
LAB*ABa	23.87	0.0	0.0
LAB*TCha	25.00	0.01	0.0

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*tch	0.25	0.0	0.0
lab*nch	0.25	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	0.25	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	0.03	0.0	0.0
LAB*ABa	0.03	0.0	0.0
LAB*TCha	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0

relative Natural Colour (NC)

lab*trj	0.0	1.0	0.0
lab*tce	0.0	1.0	0.0
lab*nce	0.0	0.0	1.0

$n^* = 1.0$

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
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)

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	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	62.9	38.02	-51.78
LAB*ABa	62.9	38.02	-51.78
LAB*TCha	75.0	64.25	306.29

relative CIELAB lab*

lab*lab	0.639	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	0.639	0.23	-0.443
lab*tce	0.75	0.5	0.826
lab*nce	0.0	0.5	0.826

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	39.05	38.03	-51.79
LAB*ABa	39.05	38.03	-51.79
LAB*TCha	50.0	64.26	306.29

relative CIELAB lab*

lab*lab	0.489	0.444	-0.603
lab*tch	0.625	0.75	0.851
lab*nch	0.0	0.75	0.851

relative Natural Colour (NC)

lab*trj	0.489	0.344	-0.665
lab*tce	0.625	0.75	0.826
lab*nce	0.0	0.75	0.826

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	22.8	57.04	-77.68
LAB*ABa	22.8	57.04	-77.68
LAB*TCha	37.51	66.38	306.29

relative CIELAB lab*

lab*lab	0.239	0.444	-0.603
lab*tch	0.375	0.75	0.851
lab*nch	0.0	0.75	0.851

relative Natural Colour (NC)

lab*trj	0.239	0.344	-0.665
lab*tce	0.375	0.75	0.826
lab*nce	0.0	0.75	0.826

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	15.21	38.02	-51.78
LAB*ABa	15.21	38.02	-51.78
LAB*TCha	25.01	64.25	306.29

relative CIELAB lab*

lab*lab	0.159	0.296	-0.402
lab*tch	0.25	0.5	0.851
lab*nch	0.0	0.5	0.851

relative Natural Colour (NC)

lab*trj	0.159	0.23	-0.443
lab*tce	0.25	0.5	0.826
lab*nce	0.0	0.5	0.826

$n^* = 0.50$

Output: Colorimetric Television Luminous System TLS70

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

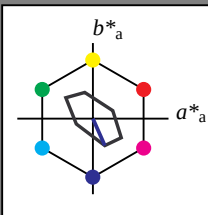
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 72 39 294

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*ABa	95.41	0.0	0.0
LAB*TCha	99.99	0.01	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0

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	1.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	88.98	0.0	0.0
LAB*ABa	88.98	0.0	0.0
LAB*TCha	75.00	0.01	0.0

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*tch	0.75	0.0	0.0
lab*nch	0.75	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	0.75	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	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	30.39	76.04	-103.5
LAB*ABa	30.39	76.04	-103.5
LAB*TCha	50.0	128.5	306.29

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	0.0
lab*nch	0.5	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	0.5	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	70.19	7.88	-17.81
LAB*ABa	70.19	7.88	-17.81
LAB*TCha	75.0	19.48	293.86

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*tch	0.25	0.0	0.0
lab*nch	0.25	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	0.25	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	0.03	0.0	0.0
LAB*ABa	0.03	0.0	0.0
LAB*TCha	0.01	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	1.0	0.0
lab*nch	0.0	0.0	1.0

relative Natural Colour (NC)

lab*trj	0.0	1.0	0.0
lab*tce	0.0	1.0	0.0
lab*nce	0.0	0.0	1.0

$n^* = 1.0$

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
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)

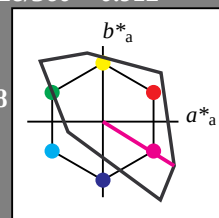
||
||
||

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^*



% Gamut

$u^*_{rel} = 158$

TLS00; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

% Regularity

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

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

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

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

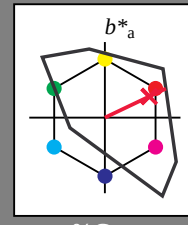
relative Inform. Technology (IT)			
olv3*	1.0	1.0	1.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*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

Input: 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

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

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

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

0.25

0.50

0.75

1.00

chromaticness c^*

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*TCHa 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*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*TCHa 50.00 0.01

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 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*TCHa 25.00 0.01

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* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 1.0 0.0 (0.0)
olv4* 1.0 0.75 0.0 (0.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 13.0 0.0 0.0
LAB*LABa 13.0 0.0 0.0
LAB*TCHa 12.5 0.01

relative CIELAB lab*
lab*lab 0.136 0.226 0.108
lab*tch 0.125 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.136 0.25 0.071
lab*tce 0.125 0.25 0.071
lab*nce 0.0 0.25 0.071

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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.01

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

OE530-7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

BAM-test chart OE53; Colorimetric systems TLS00 & TLS70

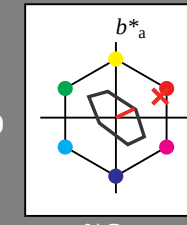
D65: 2 coordinate data of 5 step colour scales for 10 hues

Output: 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

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

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

$n^* = 0.00$

0.25

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

0.25

0.50

0.75

1.00

chromaticness c^*

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*TCHa 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*LABa 88.98 0.0 0.0
LAB*TCHa 75.00 0.01

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.94 0.0 0.0
LAB*LABa 51.94 0.0 0.0
LAB*TCHa 50.00 0.01

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 23.87 0.0 0.0
LAB*LABa 23.87 0.0 0.0
LAB*TCHa 25.00 0.01

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* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.988 1.0 (0.0)
olv4* 1.0 0.75 0.0 (0.0)
cmyn4* 0.0 0.238 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 12.5 0.0 0.0
LAB*LABa 12.5 0.0 0.0
LAB*TCHa 12.5 0.01

relative CIELAB lab*
lab*lab 0.073 0.226 0.107
lab*tch 0.125 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.073 0.25 0.071
lab*tce 0.125 0.25 0.071
lab*nce 0.0 0.25 0.071

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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*TCHa 0.0 0.01

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

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

input: cmy0* setcmycolor

output: no change compared to input

Input: Colorimetric Television Luminous System TLS00

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

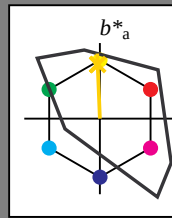
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.41	0.0	0.0	
LAB*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	0.956	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)
standard and adapted CIELAB				
LAB*LAB	92.86	-0.87	21.53	
LAB*Lab	92.86	-0.87	21.53	
LAB*Lab	92.86	-0.87	21.53	
LAB*Lab	92.86	-0.87	21.53	

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)
standard and adapted CIELAB				
LAB*LAB	90.31	-1.74	43.06	
LAB*Lab	90.31	-1.74	43.06	
LAB*Lab	90.31	-1.74	43.06	
LAB*Lab	90.31	-1.74	43.06	

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)
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	

% Regularity

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

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

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	71.57	0.0	0.0	
LAB*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)

olvi3*	0.75	0.706	0.5	(1.0)
cmyn3*	0.25	0.254	0.5	(0.0)
olvi4*	1.0	0.956	0.75	(1.0)
cmyn4*	0.0	0.044	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	69.01	-0.86	21.53	
LAB*Lab	69.01	-0.86	21.53	
LAB*Lab	69.01	-0.86	21.53	
LAB*Lab	69.01	-0.86	21.53	

relative Inform. Technology (IT)

olvi3*	0.75	0.662	0.25	(1.0)
cmyn3*	0.25	0.338	0.75	(0.0)
olvi4*	1.0	0.912	0.5	(1.0)
cmyn4*	0.0	0.088	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	66.47	-1.73	43.06	
LAB*Lab	66.47	-1.73	43.06	
LAB*Lab	66.47	-1.73	43.06	
LAB*Lab	66.47	-1.73	43.06	

relative Inform. Technology (IT)

olvi3*	0.75	0.618	0.0	(1.0)
cmyn3*	0.25	0.382	1.0	(0.0)
olvi4*	1.0	0.868	0.25	(1.0)
cmyn4*	0.0	0.132	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	87.76	-2.61	64.59	
LAB*Lab	87.76	-2.61	64.59	
LAB*Lab	87.76	-2.61	64.59	
LAB*Lab	87.76	-2.61	64.59	

relative Inform. Technology (IT)

olvi3*	1.0	0.824	0.0	(1.0)
cmyn3*	0.0	0.176	1.0	(0.0)
olvi4*	1.0	0.824	0.0	(1.0)
cmyn4*	0.0	0.176	1.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	
LAB*Lab	85.22	-3.47	86.11	

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	(1.0)
cmyn4*	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)

olvi3*	0.5	0.435	0.25	(1.0)
cmyn3*	0.5	0.565	0.75	(0.0)
olvi4*	1.0	0.935	0.75	(1.0)
cmyn4*	0.0	0.065	0.25	(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 Inform. Technology (IT)

olvi3*	0.5	0.435	0.25	(1.0)
cmyn3*	0.5	0.565	0.75	(0.0)
olvi4*	1.0	0.935	0.75	(1.0)
cmyn4*	0.0	0.065	0.25	(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 Inform. Technology (IT)

olvi3*	0.75	0.62	0.25	(1.0)
cmyn3*	0.25	0.38	0.75	(0.0)
olvi4*	1.0	0.87	0.5	(1.0)
cmyn4*	0.0	0.13	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	85.97	-0.56	14.19	
LAB*Lab	85.97	-0.56	14.19	
LAB*Lab	85.97	-0.56	14.19	
LAB*Lab	85.97	-0.56	14.19	

relative Inform. Technology (IT)

olvi3*	0.75	0.555	0.0	(1.0)
cmyn3*	0.25	0.445	1.0	(0.0)
olvi4*	1.0	0.805	0.25	(1.0)
cmyn4*	0.0	0.195	0.75	(0.0)
standard and adapted CIELAB				
LAB*LAB	80.89	-0.85	21.28	
LAB*Lab	80.89	-0.85	21.28	
LAB*Lab	80.89	-0.85	21.28	
LAB*Lab	80.89	-0.85	21.28	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	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)

olvi3*	0.25	0.456	0.25	(1.0)
cmyn3*	0.75	0.544	0.75	(0.0)
olvi4*	1.0	0.956	0.75	(1.0)
cmyn4*	0.0	0.044	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	45.16	-0.86	21.53	
LAB*Lab	45.16	-0.86	21.53	
LAB*Lab	45.16	-0.86	21.53	
LAB*Lab	45.16	-0.86	21.53	

relative Inform. Technology (IT)

olvi3*	0.25	0.412	0.0	(1.0)
cmyn3*	0.75	0.588	1.0	(0.0)
olvi4*	1.0	0.912	0.5	(1.0)
cmyn4*	0.0	0.088	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	42.62	-1.73	43.06	
LAB*Lab	42.62	-1.73	43.06	
LAB*Lab	42.62	-1.73	43.06	
LAB*Lab	42.62	-1.73	43.06	

relative Inform. Technology (IT)

olvi3*	0.25	0.382	1.0	(0.0)
cmyn3*	0.75	0.618	0.0	(1.0)
olvi4*	1.0	0.868	0.25	(1.0)
cmyn4*	0.0	0.132	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	63.92	-2.6	64.59	
LAB*Lab	63.92	-2.6	64.59	
LAB*Lab	63.92	-2.6	64.59	
LAB*Lab	63.92	-2.6	64.59	

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	(1.0)
cmyn4*	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)

olvi3*	0.5	0.435	0.25	(1.0)
cmyn3*	0.5	0.565	0.75	(0.0)
olvi4*	1.0	0.935	0.75	(1.0)
cmyn4*	0.0	0.065	0.25	(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 Inform. Technology (IT)

olvi3*	0.5	0.435	0.25	(1.0)
cmyn3*	0.5	0.565	0.75	(0.0)
olvi4*	1.0	0.935	0.75	(1.0)
cmyn4*	0.0	0.065	0.25	(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 Inform. Technology (IT)

olvi3*	0.75	0.62	0.25	(1.0)
cmyn3*	0.25	0.38	0.75	(0.0)
olvi4*	1.0	0.87	0.5	(1.0)
cmyn4*	0.0	0.13	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	85.97	-0.56	14.19	
LAB*Lab	85.97	-0.56	14.19	
LAB*Lab	85.97	-0.56	14.19	
LAB*Lab	85.97	-0.56	14.19	

relative Inform. Technology (IT)

olvi3*	0.75	0.555	0.0	(1.0)
cmyn3*	0.25	0.445	1.0	(0.0)
olvi4*	1.0	0.805	0.25	(1.0)
cmyn4*	0.0	0.195	0.75	(0.0)
standard and adapted CIELAB				
LAB*LAB	80.89	-0.85	21.28	
LAB*Lab	80.89	-0.85	21.28	
LAB*Lab	80.89	-0.85	21.28	
LAB*Lab	80.89	-0.85	21.28	

relative Inform. Technology (IT)

olvi3*	0.75	0.555	0.0	(1.0)
cmyn3*	0.25	0.445	1.0	(0.0)
olvi4*	1.0	0.805	0.25	(1.0)
cmyn4*	0.0	0.195	0.75	(0.0)
standard and adapted CIELAB				
LAB*LAB	80.89	-0.85	21.28	
LAB*Lab	80.89	-0.85	21.28	
LAB*Lab	80.89	-0.85	21.28	
LAB*Lab	80.89	-0.85	21.28	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	43.15	0.0	0.0	
LAB*Lab	43.15	0.0	0.0	
LAB*Lab	43.15	0.0	0.0	
LAB*Lab	43.15	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.473	0.25	(1.0)
cmyn3*	0.75	0.527	0.75	(0.0)
olvi4*	1.0	0.912	0.5	(1.0)
cmyn4*	0.0	0.088	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	42.62	-1.73	43.06	
LAB*Lab	42.62	-1.73	43.06	
LAB*Lab	42.62	-1.73	43.06	
LAB*Lab	42.62	-1.73	43.06	

relative Inform. Technology (IT)

olvi3*	0.25	0.412	0.0	(1.0)
cmyn3*	0.75	0.588	1.0	(0.0)
olvi4*	1.0	0.912	0.5	(1.0)

