

Input: Colorimetric Television Luminous System TLS70

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

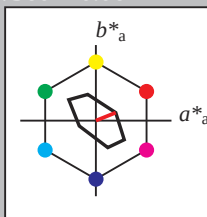
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 76 28 22

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 16$

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)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 88.98 0.0 0.0
LAB*LAB 88.98 0.0 0.0
LAB*LAB 88.98 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*lab 0.0 0.75 0.0
lab*lab 0.0 0.0 0.75
relative Natural Colour (NC)
lab*lab 0.75 0.0 0.0
lab*lab 0.0 0.75 0.0
lab*lab 0.0 0.0 0.75

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LAB 82.56 0.0 0.0
LAB*LAB 82.56 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*lab 0.0 0.75 0.0
lab*lab 0.0 0.0 0.75
relative Natural Colour (NC)
lab*lab 0.75 0.0 0.0
lab*lab 0.0 0.75 0.0
lab*lab 0.0 0.0 0.75

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
olvi3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.13 0.0 0.0
LAB*LAB 76.13 0.0 0.0
LAB*LAB 76.13 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*lab 0.0 0.25 0.0
lab*lab 0.0 0.0 0.25
relative Natural Colour (NC)
lab*lab 0.25 0.0 0.0
lab*lab 0.0 0.25 0.0
lab*lab 0.0 0.0 0.25

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 0.0 1.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 0.0 1.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.0 0.0 0.0
LAB*LAB 50.0 0.0 0.0
LAB*LAB 50.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 0.0 1.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 0.0 1.0 0.0

TLS70; adapted (a) CIELAB data

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

% Regularity

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

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

relative Inform. Technology (IT)
olvi3* 1.0 0.5 0.5 (1.0)
olvi3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
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 CIELAB lab*
lab*lab 0.631 0.464 0.187
lab*lab 0.75 0.5 0.61
lab*lab 0.0 0.5 0.61
relative Natural Colour (NC)
lab*lab 0.631 0.464 0.187
lab*lab 0.75 0.5 0.61
lab*lab 0.0 0.5 0.61

relative Inform. Technology (IT)
olvi3* 0.75 0.0 0.0 (1.0)
olvi3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 79.49 13.14 5.29
LAB*LAB 79.49 13.14 5.29
LAB*LAB 79.49 13.14 5.29

relative CIELAB lab*
lab*lab 0.381 0.499 -0.024
lab*lab 0.75 0.5 0.61
lab*lab 0.0 0.5 0.61
relative Natural Colour (NC)
lab*lab 0.381 0.499 -0.024
lab*lab 0.75 0.5 0.61
lab*lab 0.0 0.5 0.61

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.0 (1.0)
olvi3* 0.25 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.07 13.13 5.29
LAB*LAB 73.07 13.13 5.29
LAB*LAB 73.07 13.13 5.29

relative CIELAB lab*
lab*lab 0.196 0.696 0.28
lab*lab 0.375 0.75 0.61
lab*lab 0.0 0.5 0.61
relative Natural Colour (NC)
lab*lab 0.196 0.696 0.28
lab*lab 0.375 0.75 0.61
lab*lab 0.0 0.5 0.61

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.0 (1.0)
olvi3* 0.125 0.25 0.25 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 63.52 6.56 2.64
LAB*LAB 63.52 6.56 2.64
LAB*LAB 63.52 6.56 2.64

relative CIELAB lab*
lab*lab 0.066 0.232 0.093
lab*lab 0.125 0.25 0.61
lab*lab 0.0 0.5 0.61
relative Natural Colour (NC)
lab*lab 0.066 0.232 0.093
lab*lab 0.125 0.25 0.61
lab*lab 0.0 0.5 0.61

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.0 0.0 0.0
LAB*LAB 50.0 0.0 0.0
LAB*LAB 50.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 0.0 1.0 0.0
relative Natural Colour (NC)
lab*lab 0.0 0.0 0.0
lab*lab 1.0 0.0 0.0
lab*lab 0.0 1.0 0.0

Output: Colorimetric Television Luminous System TLS00

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

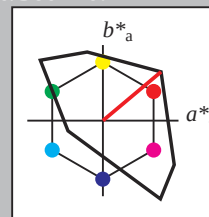
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

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)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lab 1.0 0.0 0.0
lab*lab 0.0 0.0 0.0
lab*lab 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0

relative CIELAB lab*
lab*lab 0.882 0.235 0.084
lab*lab 0.875 0.25 0.054
lab*lab 0.0 0.25 0.21
relative Natural Colour (NC)
lab*lab 0.882 0.235 0.084
lab*lab 0.875 0.25 0.054
lab*lab 0.0 0.25 0.21

relative Inform. Technology (IT)
olvi3* 0.75 0.0 0.0 (1.0)
olvi3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
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 CIELAB lab*
lab*lab 0.632 0.236 0.084
lab*lab 0.625 0.25 0.054
lab*lab 0.0 0.25 0.21
relative Natural Colour (NC)
lab*lab 0.632 0.236 0.084
lab*lab 0.625 0.25 0.054
lab*lab 0.0 0.25 0.21

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LAB 47.72 0.0 0.0
LAB*LAB 47.72 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*lab 0.0 0.5 0.0
lab*lab 0.0 0.0 0.5
relative Natural Colour (NC)
lab*lab 0.5 0.0 0.0
lab*lab 0.0 0.5 0.0
lab*lab 0.0 0.0 0.5

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
olvi3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.48 19.23 16.14
LAB*LAB 36.48 19.23 16.14
LAB*LAB 36.48 19.23 16.14

relative CIELAB lab*
lab*lab 0.382 0.192 0.161
lab*lab 0.375 0.25 0.111
lab*lab 0.0 0.25 0.111
relative Natural Colour (NC)
lab*lab 0.382 0.192 0.161
lab*lab 0.375 0.25 0.111
lab*lab 0.0 0.25 0.111

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.26 38.45 32.27
LAB*LAB 25.26 38.45 32.27
LAB*LAB 25.26 38.45 32.27

relative CIELAB lab*
lab*lab 0.132 0.191 0.161
lab*lab 0.125 0.25 0.111
lab*lab 0.0 0.25 0.111
relative Natural Colour (NC)
lab*lab 0.132 0.191 0.161
lab*lab 0.125 0.25 0.111
lab*lab 0.0 0.25 0.111

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)
olvi3* 1.0 0.5 0.5 (1.0)
olvi3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
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 CIELAB lab*
lab*lab 0.765 0.383 0.321
lab*lab 0.75 0.5 0.111
lab*lab 0.0 0.5 0.111
relative Natural Colour (NC)
lab*lab 0.765 0.383 0.321
lab*lab 0.75 0.5 0.111
lab*lab 0.0 0.5 0.111

relative Inform. Technology (IT)
olvi3* 0.75 0.25 0.25 (1.0)
olvi3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
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 CIELAB lab*
lab*lab 0.647 0.207 0.251
lab*lab 0.625 0.25 0.054
lab*lab 0.0 0.25 0.21
relative Natural Colour (NC)
lab*lab 0.647 0.207 0.251
lab*lab 0.625 0.25 0.054
lab*lab 0.0 0.25 0.21

relative Inform. Technology (IT)
olvi3* 0.75 0.0 0.0 (1.0)
olvi3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.68 57.68 48.41
LAB*LAB 37.68 57.68 48.41
LAB*LAB 37.68 57.68 48.41

relative CIELAB lab*
lab*lab 0.647 0.574 0.482
lab*lab 0.625 0.75 0.111
lab*lab 0.0 0.75 0.111
relative Natural Colour (NC)
lab*lab 0.647 0.574 0.482
lab*lab 0.625 0.75 0.111
lab*lab 0.0 0.75 0.111

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.0 (1.0)
olvi3* 0.25 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 25.26 38.45 32.27
LAB*LAB 25.26 38.45 32.27
LAB*LAB 25.26 38.45 32.27

relative CIELAB lab*
lab*lab 0.397 0.574 0.482
lab*lab 0.375 0.75 0.111
lab*lab 0.0 0.75 0.111
relative Natural Colour (NC)
lab*lab 0.397 0.574 0.482
lab*lab 0.375 0.75 0.111
lab*lab 0.0 0.75 0.111

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.5 76.9 64.54
LAB*LAB 50.5 76.9 64.54
LAB*LAB 50.5 76.9 64.54

relative CIELAB lab*
lab*lab 0.529 0.942 0.335
lab*lab 0.5 1.0 0.0 1.0
lab*lab 0.0 1.0 0.0 1.0
relative Natural Colour (NC)
lab*lab 0.529 0.942 0.335
lab*lab 0.5 1.0 0.0 1.0
lab*lab 0.0 1.0 0.0 1.0

relative Inform. Technology (IT)
olvi3* 0.75 0.25 0.25 (1.0)
olvi3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.68 57.68 48.41
LAB*LAB 37.68 57.68 48.41
LAB*LAB 37.68 57.68 48.41

relative CIELAB lab*
lab*lab 0.647 0.574 0.482
lab*lab 0.625 0.75 0.111
lab*lab 0.0 0.75 0.111
relative Natural Colour (NC)
lab*lab 0.647 0.574 0.482
lab*lab 0.625 0.75 0.111
lab*lab 0.0 0.75 0.111

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.0 (1.0)
olvi3* 0.25 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 25.26 38.45 32.27
LAB*LAB 25.26 38.45 32.27
LAB*LAB 25.26 38.45 32.27

relative CIELAB lab*
lab*lab 0.397 0.574 0.482
lab*lab 0.375 0.75 0.111
lab*lab 0.0 0.75 0.111
relative Natural Colour (NC)
lab*lab 0.397 0.574 0.482
lab*lab 0.375 0.75 0.111
lab*lab 0.0 0.75 0.111

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.0 (1.0)
olvi3* 0.125 0.25 0.25 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
olvi4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 12.5 25.09 40.0

relative CIELAB lab*
lab*lab 0.066 0.232

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 107/360 = 0.298$

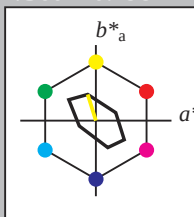
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 94 36 107

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



TLS70; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.0 0.0

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 0.0 0.0

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 0.0 0.0

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 0.0 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 0.0 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 0.0 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 0.0 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 0.0 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 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.00 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 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.00 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 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.00 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 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.00 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 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*TCHa 25.00 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 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*TCHa 25.00 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 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*TCHa 25.00 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 76.13 0.0 0.0
LAB*LABa 76.13 0.0 0.0
LAB*TCHa 25.00 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 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 69.7 0.0 0.0
LAB*LABa 69.7 0.0 0.0
LAB*TCHa 0.0 0.0 0.0

OE580-7, 5 step scales for constant CIELAB hue 107/360 = 0.298 (left)

BAM-test chart OE58; Colorimetric systems TLS70 & TLS00

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

Output: Colorimetric Television Luminous System TLS00

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

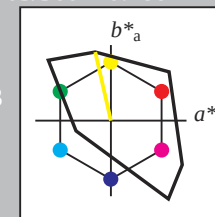
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



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	79.75	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*TCHa 99.99 0.0 0.0

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 0.0 0.0

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 0.0 0.0

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 0.0 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 0.0 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 0.0 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 0.0 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 0.0 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 82.56 0.0 0.0
LAB*LABa 82.56 0.0 0.0
LAB*TCHa 50.00 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.

4



output: *cmy0** / *000n** *setcmykcolor*

Input: Colorimetric Television Luminous System TLS70

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

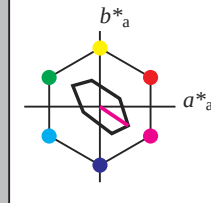
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 79 45 326

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



TLS70; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0
LAB*LABd 95.41 0.0 0.0
LAB*LABe 95.41 0.0 0.0
LAB*LABf 95.41 0.0 0.0
LAB*LABg 95.41 0.0 0.0
LAB*LABh 95.41 0.0 0.0
LAB*LABi 95.41 0.0 0.0
LAB*LABj 95.41 0.0 0.0
LAB*LABk 95.41 0.0 0.0
LAB*LABl 95.41 0.0 0.0
LAB*LABm 95.41 0.0 0.0
LAB*LABn 95.41 0.0 0.0
LAB*LABo 95.41 0.0 0.0
LAB*LABp 95.41 0.0 0.0
LAB*LABq 95.41 0.0 0.0
LAB*LABr 95.41 0.0 0.0
LAB*LABs 95.41 0.0 0.0
LAB*LABt 95.41 0.0 0.0
LAB*LABu 95.41 0.0 0.0
LAB*LABv 95.41 0.0 0.0
LAB*LABw 95.41 0.0 0.0
LAB*LABx 95.41 0.0 0.0
LAB*LABy 95.41 0.0 0.0
LAB*LABz 95.41 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.75 1.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olv4* 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
LAB*LABb 91.18 9.38 -6.3
LAB*LABc 91.18 9.38 -6.3
LAB*LABd 91.18 9.38 -6.3
LAB*LABe 91.18 9.38 -6.3
LAB*LABf 91.18 9.38 -6.3
LAB*LABg 91.18 9.38 -6.3
LAB*LABh 91.18 9.38 -6.3
LAB*LABi 91.18 9.38 -6.3
LAB*LABj 91.18 9.38 -6.3
LAB*LABk 91.18 9.38 -6.3
LAB*LABl 91.18 9.38 -6.3
LAB*LABm 91.18 9.38 -6.3
LAB*LABn 91.18 9.38 -6.3
LAB*LABo 91.18 9.38 -6.3
LAB*LABp 91.18 9.38 -6.3
LAB*LABq 91.18 9.38 -6.3
LAB*LABr 91.18 9.38 -6.3
LAB*LABs 91.18 9.38 -6.3
LAB*LABt 91.18 9.38 -6.3
LAB*LABu 91.18 9.38 -6.3
LAB*LABv 91.18 9.38 -6.3
LAB*LABw 91.18 9.38 -6.3
LAB*LABx 91.18 9.38 -6.3
LAB*LABy 91.18 9.38 -6.3
LAB*LABz 91.18 9.38 -6.3

relative Inform. Technology (IT)
olv3* 1.0 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olv4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 86.95 18.76 -12.61
LAB*LABa 86.95 18.76 -12.61
LAB*LABb 86.95 18.76 -12.61
LAB*LABc 86.95 18.76 -12.61
LAB*LABd 86.95 18.76 -12.61
LAB*LABe 86.95 18.76 -12.61
LAB*LABf 86.95 18.76 -12.61
LAB*LABg 86.95 18.76 -12.61
LAB*LABh 86.95 18.76 -12.61
LAB*LABi 86.95 18.76 -12.61
LAB*LABj 86.95 18.76 -12.61
LAB*LABk 86.95 18.76 -12.61
LAB*LABl 86.95 18.76 -12.61
LAB*LABm 86.95 18.76 -12.61
LAB*LABn 86.95 18.76 -12.61
LAB*LABo 86.95 18.76 -12.61
LAB*LABp 86.95 18.76 -12.61
LAB*LABq 86.95 18.76 -12.61
LAB*LABr 86.95 18.76 -12.61
LAB*LABs 86.95 18.76 -12.61
LAB*LABt 86.95 18.76 -12.61
LAB*LABu 86.95 18.76 -12.61
LAB*LABv 86.95 18.76 -12.61
LAB*LABw 86.95 18.76 -12.61
LAB*LABx 86.95 18.76 -12.61
LAB*LABy 86.95 18.76 -12.61
LAB*LABz 86.95 18.76 -12.61

relative Inform. Technology (IT)
olv3* 1.0 0.25 1.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olv4* 1.0 0.25 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 82.73 28.14 -18.92
LAB*LABa 82.73 28.14 -18.92
LAB*LABb 82.73 28.14 -18.92
LAB*LABc 82.73 28.14 -18.92
LAB*LABd 82.73 28.14 -18.92
LAB*LABe 82.73 28.14 -18.92
LAB*LABf 82.73 28.14 -18.92
LAB*LABg 82.73 28.14 -18.92
LAB*LABh 82.73 28.14 -18.92
LAB*LABi 82.73 28.14 -18.92
LAB*LABj 82.73 28.14 -18.92
LAB*LABk 82.73 28.14 -18.92
LAB*LABl 82.73 28.14 -18.92
LAB*LABm 82.73 28.14 -18.92
LAB*LABn 82.73 28.14 -18.92
LAB*LABo 82.73 28.14 -18.92
LAB*LABp 82.73 28.14 -18.92
LAB*LABq 82.73 28.14 -18.92
LAB*LABr 82.73 28.14 -18.92
LAB*LABs 82.73 28.14 -18.92
LAB*LABt 82.73 28.14 -18.92
LAB*LABu 82.73 28.14 -18.92
LAB*LABv 82.73 28.14 -18.92
LAB*LABw 82.73 28.14 -18.92
LAB*LABx 82.73 28.14 -18.92
LAB*LABy 82.73 28.14 -18.92
LAB*LABz 82.73 28.14 -18.92

relative Inform. Technology (IT)
olv3* 1.0 0.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 75.00 0.00 0.00
LAB*LABa 75.00 0.00 0.00
LAB*LABb 75.00 0.00 0.00
LAB*LABc 75.00 0.00 0.00
LAB*LABd 75.00 0.00 0.00
LAB*LABe 75.00 0.00 0.00
LAB*LABf 75.00 0.00 0.00
LAB*LABg 75.00 0.00 0.00
LAB*LABh 75.00 0.00 0.00
LAB*LABi 75.00 0.00 0.00
LAB*LABj 75.00 0.00 0.00
LAB*LABk 75.00 0.00 0.00
LAB*LABl 75.00 0.00 0.00
LAB*LABm 75.00 0.00 0.00
LAB*LABn 75.00 0.00 0.00
LAB*LABo 75.00 0.00 0.00
LAB*LABp 75.00 0.00 0.00
LAB*LABq 75.00 0.00 0.00
LAB*LABr 75.00 0.00 0.00
LAB*LABs 75.00 0.00 0.00
LAB*LABt 75.00 0.00 0.00
LAB*LABu 75.00 0.00 0.00
LAB*LABv 75.00 0.00 0.00
LAB*LABw 75.00 0.00 0.00
LAB*LABx 75.00 0.00 0.00
LAB*LABy 75.00 0.00 0.00
LAB*LABz 75.00 0.00 0.00

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 0.00 0.00
LAB*LABa 71.57 0.00 0.00
LAB*LABb 71.57 0.00 0.00
LAB*LABc 71.57 0.00 0.00
LAB*LABd 71.57 0.00 0.00
LAB*LABe 71.57 0.00 0.00
LAB*LABf 71.57 0.00 0.00
LAB*LABg 71.57 0.00 0.00
LAB*LABh 71.57 0.00 0.00
LAB*LABi 71.57 0.00 0.00
LAB*LABj 71.57 0.00 0.00
LAB*LABk 71.57 0.00 0.00
LAB*LABl 71.57 0.00 0.00
LAB*LABm 71.57 0.00 0.00
LAB*LABn 71.57 0.00 0.00
LAB*LABo 71.57 0.00 0.00
LAB*LABp 71.57 0.00 0.00
LAB*LABq 71.57 0.00 0.00
LAB*LABr 71.57 0.00 0.00
LAB*LABs 71.57 0.00 0.00
LAB*LABt 71.57 0.00 0.00
LAB*LABu 71.57 0.00 0.00
LAB*LABv 71.57 0.00 0.00
LAB*LABw 71.57 0.00 0.00
LAB*LABx 71.57 0.00 0.00
LAB*LABy 71.57 0.00 0.00
LAB*LABz 71.57 0.00 0.00

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 62.03 23.59 -14.46
LAB*LABa 62.03 23.59 -14.46
LAB*LABb 62.03 23.59 -14.46
LAB*LABc 62.03 23.59 -14.46
LAB*LABd 62.03 23.59 -14.46
LAB*LABe 62.03 23.59 -14.46
LAB*LABf 62.03 23.59 -14.46
LAB*LABg 62.03 23.59 -14.46
LAB*LABh 62.03 23.59 -14.46
LAB*LABi 62.03 23.59 -14.46
LAB*LABj 62.03 23.59 -14.46
LAB*LABk 62.03 23.59 -14.46
LAB*LABl 62.03 23.59 -14.46
LAB*LABm 62.03 23.59 -14.46
LAB*LABn 62.03 23.59 -14.46
LAB*LABo 62.03 23.59 -14.46
LAB*LABp 62.03 23.59 -14.46
LAB*LABq 62.03 23.59 -14.46
LAB*LABr 62.03 23.59 -14.46
LAB*LABs 62.03 23.59 -14.46
LAB*LABt 62.03 23.59 -14.46
LAB*LABu 62.03 23.59 -14.46
LAB*LABv 62.03 23.59 -14.46
LAB*LABw 62.03 23.59 -14.46
LAB*LABx 62.03 23.59 -14.46
LAB*LABy 62.03 23.59 -14.46
LAB*LABz 62.03 23.59 -14.46

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (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 55.56 0.00 0.00
LAB*LABa 55.56 0.00 0.00
LAB*LABb 55.56 0.00 0.00
LAB*LABc 55.56 0.00 0.00
LAB*LABd 55.56 0.00 0.00
LAB*LABe 55.56 0.00 0.00
LAB*LABf 55.56 0.00 0.00
LAB*LABg 55.56 0.00 0.00
LAB*LABh 55.56 0.00 0.00
LAB*LABi 55.56 0.00 0.00
LAB*LABj 55.56 0.00 0.00
LAB*LABk 55.56 0.00 0.00
LAB*LABl 55.56 0.00 0.00
LAB*LABm 55.56 0.00 0.00
LAB*LABn 55.56 0.00 0.00
LAB*LABo 55.56 0.00 0.00
LAB*LABp 55.56 0.00 0.00
LAB*LABq 55.56 0.00 0.00
LAB*LABr 55.56 0.00 0.00
LAB*LABs 55.56 0.00 0.00
LAB*LABt 55.56 0.00 0.00
LAB*LABu 55.56 0.00 0.00
LAB*LABv 55.56 0.00 0.00
LAB*LABw 55.56 0.00 0.00
LAB*LABx 55.56 0.00 0.00
LAB*LABy 55.56 0.00 0.00
LAB*LABz 55.56 0.00 0.00

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 40.00 0.00 0.00
LAB*LABa 40.00 0.00 0.00
LAB*LABb 40.00 0.00 0.00
LAB*LABc 40.00 0.00 0.00
LAB*LABd 40.00 0.00 0.00
LAB*LABe 40.00 0.00 0.00
LAB*LABf 40.00 0.00 0.00
LAB*LABg 40.00 0.00 0.00
LAB*LABh 40.00 0.00 0.00
LAB*LABi 40.00 0.00 0.00
LAB*LABj 40.00 0.00 0.00
LAB*LABk 40.00 0.00 0.00
LAB*LABl 40.00 0.00 0.00
LAB*LABm 40.00 0.00 0.00
LAB*LABn 40.00 0.00 0.00
LAB*LABo 40.00 0.00 0.00
LAB*LABp 40.00 0.00 0.00
LAB*LABq 40.00 0.00 0.00
LAB*LABr 40.00 0.00 0.00
LAB*LABs 40.00 0.00 0.00
LAB*LABt 40.00 0.00 0.00
LAB*LABu 40.00 0.00 0.00
LAB*LABv 40.00 0.00 0.00
LAB*LABw 40.00 0.00 0.00
LAB*LABx 40.00 0.00 0.00
LAB*LABy 40.00 0.00 0.00
LAB*LABz 40.00 0.00 0.00

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.75 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.82 70.75 -43.8
LAB*LABa 66.82 70.75 -43.8
LAB*LABb 66.82 70.75 -43.8
LAB*LABc 66.82 70.75 -43.8
LAB*LABd 66.82 70.75 -43.8
LAB*LABe 66.82 70.75 -43.8
LAB*LABf 66.82 70.75 -43.8
LAB*LABg 66.82 70.75 -43.8
LAB*LABh 66.82 70.75 -43.8
LAB*LABi 66.82 70.75 -43.8
LAB*LABj 66.82 70.75 -43.8
LAB*LABk 66.82 70.75 -43.8
LAB*LABl 66.82 70.75 -43.8
LAB*LABm 66.82 70.75 -43.8
LAB*LABn 66.82 70.75 -43.8
LAB*LABo 66.82 70.75 -43.8
LAB*LABp 66.82 70.75 -43.8
LAB*LABq 66.82 70.75 -43.8
LAB*LABr 66.82 70.75 -43.8
LAB*LABs 66.82 70.75 -43.8
LAB*LABt 66.82 70.75 -43.8
LAB*LABu 66.82 70.75 -43.8
LAB*LABv 66.82 70.75 -43.8
LAB*LABw 66.82 70.75 -43.8
LAB*LABx 66.82 70.75 -43.8
LAB*LABy 66.82 70.75 -43.8
LAB*LABz 66.82 70.75 -43.8

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 76.13 0.00 0.00
LAB*LABa 76.13 0.00 0.00
LAB*LABb 76.13 0.00 0.00
LAB*LABc 76.13 0.00 0.00
LAB*LABd 76.13 0.00 0.00
LAB*LABe 76.13 0.00 0.00
LAB*LABf 76.13 0.00 0.00
LAB*LABg 76.13 0.00 0.00
LAB*LABh 76.13 0.00 0.00
LAB*LABi 76.13 0.00 0.00
LAB*LABj 76.13 0.00 0.00
LAB*LABk 76.13 0.00 0.00
LAB*LABl 76.13 0.00 0.00
LAB*LABm 76.13 0.00 0.00
LAB*LABn 76.13 0.00 0.00
LAB*LABo 76.13 0.00 0.00
LAB*LABp 76.13 0.00 0.00
LAB*LABq 76.13 0.00 0.00
LAB*LABr 76.13 0.00 0.00
LAB*LABs 76.13 0.00 0.00
LAB*LABt 76.13 0.00 0.00
LAB*LABu 76.13 0.00 0.00
LAB*LABv 76.13 0.00 0.00
LAB*LABw 76.13 0.00 0.00
LAB*LABx 76.13 0.00 0.00
LAB*LABy 76.13 0.00 0.00
LAB*LABz 76.13 0.00 0.00

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.00 0.00
LAB*LABa 71.57 0.00 0.00
LAB*LABb 71.57 0.00 0.00
LAB*LABc 71.57 0.00 0.00
LAB*LABd 71.57 0.00 0.00
LAB*LABe 71.57 0.00 0.00
LAB*LABf 71.57 0.00 0.00
LAB*LABg 71.57 0.00 0.00
LAB*LABh 71.57 0.00 0.00
LAB*LABi 71.57 0.00 0.00
LAB*LABj 71.57 0.00 0.00
LAB*LABk 71.57 0.00 0.00
LAB*LABl 71.57 0.00 0.00
LAB*LABm 71.57 0.00 0.00
LAB*LABn 71.57 0.00 0.00
LAB*LABo 71.57 0.00 0.00
LAB*LABp 71.57 0.00 0.00
LAB*LABq 71.57 0.00 0.00
LAB*LABr 71.57 0.00 0.00
LAB*LABs 71.57 0.00 0.00
LAB*LABt 71.57 0.00 0.00
LAB*LABu 71.57 0.00 0.00
LAB*LABv 71.57 0.00 0.00
LAB*LABw 71.57 0.00 0.00
LAB*LABx 71.57 0.00 0.00
LAB*LABy 71.57 0.00 0.00
LAB*LABz 71.57 0.00 0.00

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 62.03 23.59 -14.46
LAB*LABa 62.03 23.59 -14.46
LAB*LABb 62.03 23.59 -14.46
LAB*LABc 62.03 23.59 -14.46
LAB*LABd 62.03 23.59 -14.46
LAB*LABe 62.03 23.59 -14.46
LAB*LABf 62.03 23.59 -14.46
LAB*LABg 62.03 23.59 -14.46
LAB*LABh 62.03 23.59 -14.46
LAB*LABi 62.03 23.59 -14.46
LAB*LABj 62.03 23.59 -14.46
LAB*LABk 62.03 23.59 -14.46
LAB*LABl 62.03 23.59 -14.46
LAB*LABm 62.03 23.59 -14.46
LAB*LABn 62.03 23.59 -14.46
LAB*LABo 62.03 23.59 -14.46
LAB*LABp 62.03 23.59 -14.46
LAB*LABq 62.03 23.59 -14.46
LAB*LABr 62.03 23.59 -14.46
LAB*LABs 62.03 23.59 -14.46
LAB*LABt 62.03 23.59 -14.46
LAB*LABu 62.03 23.59 -14.46
LAB*LABv 62.03 23.59 -14.46
LAB*LABw 62.03 23.59 -14.46
LAB*LABx 62.03 23.59 -14.46
LAB*LABy 62.03 23.59 -14.46
LAB*LABz 62.03 23.59 -14.46

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 55.56 0.00 0.00
LAB*LABa 55.56 0.00 0.00
LAB*LABb 55.56 0.00 0.00
LAB*LABc 55.56 0.00 0.00
LAB*LABd 55.56 0.00 0.00
LAB*LABe 55.56 0.00 0.00
LAB*LABf 55.56 0.00 0.00
LAB*LABg 55.56 0.00 0.00
LAB*LABh 55.56 0.00 0.00
LAB*LABi 55.56 0.00 0.00
LAB*LABj 55.56 0.00 0.00
LAB*LABk 55.56 0.00 0.00
LAB*LABl 55.56 0.00 0.00
LAB*LABm 55.56 0.00 0.00
LAB*LABn 55.56 0.00 0.00
LAB*LABo 55.56 0.00 0.00
LAB*LABp 55.56 0.00 0.00
LAB*LABq 55.56 0.00 0.00
LAB*LABr 55.56 0.00 0.00
LAB*LABs 55.56 0.00 0.00
LAB*LABt 55.56 0.00 0.00
LAB*LABu 55.56 0.00 0.00
LAB*LABv 55.56 0.00 0.00
LAB*LABw 55.56 0.00 0.00
LAB*LABx 55.56 0.00 0.00
LAB*LABy 55.56 0.00 0.00
LAB*LABz 55.56 0.00 0.00

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 40.00 0.00 0.00
LAB*LABa 40.00 0.00 0.00
LAB*LABb 40.00 0.00 0.00
LAB*LABc 40.00 0.00 0.00
LAB*LABd 40.00 0.00

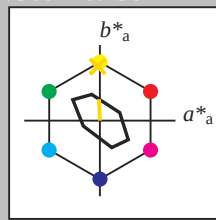
Input: Colorimetric Television Luminous System TLS70

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

lab^*tch and lab^*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)
cmyn3*	0.0	0.0	0.0	0.0
cmyn3*	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	

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
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
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
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
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
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
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)
cmyn3*	0.0	0.0	0.0	0.0
cmyn3*	0.0	0.0	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	

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

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0

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)
cmyn3*	0.0	0.0	0.0	0.0
cmyn3*	0.0	0.0	0.0	0.0
LAB*Lab	76.13	0.0	0.0	
LAB*Lab	76.13	0.0	0.0	
LAB*Lab	76.13	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
LAB*Lab	76.13	0.0	0.0
LAB*Lab	76.13	0.0	0.0
LAB*Lab	76.13	0.0	0.0
LAB*Lab	76.13	0.0	0.0
LAB*Lab	76.13	0.0	0.0
LAB*Lab	76.13	0.0	0.0
LAB*Lab	76.13	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0
lab*lab	0.25	0.0	0.0

TLS70; adapted (a) CIELAB data

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

% Regularity

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

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

1.00

0.75

0.50

0.25

0.00

blackness n^*

chromaticness c^*

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

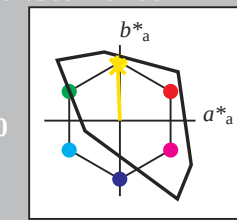
Output: Colorimetric Television Luminous System TLS00

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)

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)
cmyn3*	0.0	0.0	0.0	0.0
cmyn3*	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	

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
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
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
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
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
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
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)
cmyn3*	0.0	0.0	0.0	0.0
cmyn3*	0.0	0.0	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	

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

relative CIELAB lab*

lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0
lab*lab	0.75	0.0	0.0

lab*ncE 0.75 0.0 -

relative Inform. Technology (IT)				
olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	0.0
cmyn4*	0.0	0.0	0.0	1.0

standard and adapted CIELAB

Input: Colorimetric Television Luminous System TLS70

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

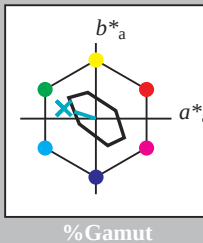
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 90 30 162

olv*Ma: 0.0 1.0 0.53

triangle lightness t^*



TLS70; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

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

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

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

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

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

relative Inform. Technology (IT)		
olv3*	0.5	0.75
cmyn3*	0.5	0.25
olv4*	0.75	1.0
cmyn4*	0.25	0.0
standard and adapted CIELAB		
LAB*LAB	87.67	-7.09
LAB*LAB ₀	87.67	-7.09

Input: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 272/360 = 0.755$

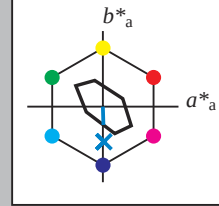
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 80 24 272

olv*Ma: 0.0 0.4 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*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*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)
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*LAB 88.98 0.0 0.0
LAB*LAB 75.00 0.0 0.0

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

relative Inform. Technology (IT)
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)
standard and adapted CIELAB
LAB*LAB 82.56 0.0 0.0
LAB*LAB 82.56 0.0 0.0
LAB*LAB 50.00 0.0 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)
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 76.13 0.0 0.0
LAB*LAB 76.13 0.0 0.0
LAB*LAB 25.00 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
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 69.17 0.0 0.0
LAB*LAB 69.17 0.0 0.0
LAB*LAB 0.00 0.0 0.0

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)
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 69.17 0.0 0.0
LAB*LAB 69.17 0.0 0.0
LAB*LAB 0.00 0.0 0.0

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

TLS70; adapted (a) CIELAB data

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

% Regularity

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

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

relative Inform. Technology (IT)
olvi3* 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 87.5 0.37 -12.12
LAB*LAB 87.5 0.37 -12.12
LAB*LAB 75.0 12.13 27.73

relative CIELAB lab*
lab*lab 0.693 0.015 -0.499
lab*tch 0.75 0.5 0.755
lab*nch 0.0 0.5 0.755
relative Natural Colour (NC)
lab*trj 0.693 0.0 -0.499
lab*tce 0.75 0.5 0.755
lab*nce 0.0 0.5 0.755

relative Inform. Technology (IT)
olvi3* 0.25 0.449 0.75 (1.0)
cmyn3* 0.75 0.55 0.25 (0.0)
olvi4* 0.5 0.699 1.0 0.75
cmyn4* 0.5 0.301 0.0 0.25
standard and adapted CIELAB
LAB*LAB 81.08 0.37 -12.12
LAB*LAB 81.08 0.37 -12.12
LAB*LAB 50.0 12.14 27.74

relative CIELAB lab*
lab*lab 0.443 0.015 -0.499
lab*tch 0.5 0.5 0.755
lab*nch 0.0 0.5 0.755
relative Natural Colour (NC)
lab*trj 0.443 0.0 -0.499
lab*tce 0.5 0.5 0.755
lab*nce 0.0 0.5 0.755

relative Inform. Technology (IT)
olvi3* 0.0 0.199 0.5 (1.0)
cmyn3* 1.0 0.801 0.5 (0.0)
olvi4* 0.5 0.699 1.0 0.5
cmyn4* 0.5 0.301 0.0 0.25
standard and adapted CIELAB
LAB*LAB 74.65 0.37 -12.12
LAB*LAB 74.65 0.37 -12.12
LAB*LAB 25.01 12.14 27.75

relative CIELAB lab*
lab*lab 0.193 0.015 -0.499
lab*tch 0.25 0.5 0.755
lab*nch 0.0 0.5 0.755
relative Natural Colour (NC)
lab*trj 0.193 0.0 -0.499
lab*tce 0.25 0.5 0.755
lab*nce 0.0 0.5 0.755

$n^* = 0.50$

$n^* = 0.25$

blackness n^*

chromaticness c^*

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 272/360 = 0.755$

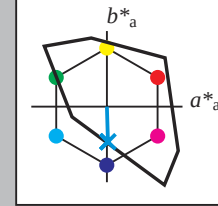
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 65 49 272

olv*Ma: 0.0 0.61 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*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*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)
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 87.77 0.36 -12.14
LAB*LAB 87.77 0.36 -12.14
LAB*LAB 75.0 12.16 27.71

relative CIELAB lab*
lab*lab 0.92 0.007 -0.249
lab*tch 0.875 0.25 0.755
lab*nch 0.0 0.25 0.755
relative Natural Colour (NC)
lab*trj 0.92 0.0 -0.249
lab*tce 0.875 0.25 0.755
lab*nce 0.0 0.25 0.755

relative Inform. Technology (IT)
olvi3* 0.5 0.653 0.75 (1.0)
cmyn3* 0.5 0.347 0.25 (0.0)
olvi4* 0.75 0.903 1.0 0.75
cmyn4* 0.25 0.097 0.0 0.25
standard and adapted CIELAB
LAB*LAB 80.13 0.73 -24.31
LAB*LAB 80.13 0.73 -24.31
LAB*LAB 62.5 12.17 27.74

relative CIELAB lab*
lab*lab 0.67 0.008 -0.249
lab*tch 0.625 0.25 0.755
lab*nch 0.0 0.25 0.755
relative Natural Colour (NC)
lab*trj 0.67 0.0 -0.249
lab*tce 0.625 0.25 0.755
lab*nce 0.0 0.25 0.755

relative Inform. Technology (IT)
olvi3* 0.25 0.403 0.5 (1.0)
cmyn3* 0.75 0.597 0.5 (0.0)
olvi4* 0.75 0.903 1.0 0.5
cmyn4* 0.25 0.097 0.0 0.5
standard and adapted CIELAB
LAB*LAB 63.92 0.37 -12.15
LAB*LAB 63.92 0.37 -12.15
LAB*LAB 50.0 12.17 27.74

relative CIELAB lab*
lab*lab 0.57 0.008 -0.249
lab*tch 0.525 0.25 0.755
lab*nch 0.0 0.25 0.755
relative Natural Colour (NC)
lab*trj 0.57 0.0 -0.249
lab*tce 0.525 0.25 0.755
lab*nce 0.0 0.25 0.755

relative Inform. Technology (IT)
olvi3* 0.0 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 79.6 0.74 -24.25
LAB*LAB 79.6 0.74 -24.25
LAB*LAB 50.0 24.27 27.74

relative CIELAB lab*
lab*lab 0.385 0.0 -0.999
lab*tch 0.385 0.0 1.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.385 0.0 -0.999
lab*tce 0.385 0.0 1.0
lab*nce 0.0 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 74.65 0.37 -12.12
LAB*LAB 74.65 0.37 -12.12
LAB*LAB 25.01 12.14 27.75

relative CIELAB lab*
lab*lab 0.289 0.023 -0.749
lab*tch 0.375 0.75 0.755
lab*nch 0.0 0.75 0.755
relative Natural Colour (NC)
lab*trj 0.289 0.0 -0.749
lab*tce 0.375 0.75 0.755
lab*nce 0.0 0.75 0.755

$n^* = 1.0$

$n^* = 0.25$

blackness n^*

chromaticness c^*

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)
olvi3* 0.5 0.805 1.0 (1.0)
cmyn3* 0.5 0.195 0.0 (0.0)
olvi4* 0.5 0.805 1.0 1.0
cmyn4* 0.5 0.195 0.0 0.0
standard and adapted CIELAB
LAB*LAB 80.13 0.73 -24.31
LAB*LAB 80.13 0.73 -24.31
LAB*LAB 75.0 24.33 27.72

relative CIELAB lab*
lab*lab 0.84 0.015 -0.499
lab*tch 0.75 0.5 0.755
lab*nch 0.0 0.5 0.755
relative Natural Colour (NC)
lab*trj 0.84 0.0 -0.499
lab*tce 0.75 0.5 0.755
lab*nce 0.0 0.5 0.755

relative Inform. Technology (IT)
olvi3* 0.25 0.555 0.75 (1.0)
cmyn3* 0.75 0.445 0.25 (0.0)
olvi4* 0.5 0.805 1.0 0.75
cmyn4* 0.5 0.195 0.0 0.25
standard and adapted CIELAB
LAB*LAB 56.28 0.74 -24.32
LAB*LAB 56.28 0.74 -24.32
LAB*LAB 50.0 24.34 27.74

relative CIELAB lab*
lab*lab 0.51 0.023 -0.499
lab*tch 0.5 0.5 0.755
lab*nch 0.0 0.5 0.755
relative Natural Colour (NC)
lab*trj 0.51 0.0 -0.499
lab*tce 0.5 0.5 0.755
lab*nce 0.0 0.5 0.755

relative Inform. Technology (IT)
olvi3* 0.0 0.305 0.5 (1.0)
cmyn3* 1.0 0.695 0.5 (0.0)
olvi4* 0.5 0.805 1.0 0.5
cmyn4* 0.5 0.195 0.0 0.5
standard and adapted CIELAB
LAB*LAB 32.44 0.73 -24.32
LAB*LAB 32.44 0.73 -24.32
LAB*LAB 25.01 24.34 27.75

relative CIELAB lab*
lab*lab 0.34 0.015 -0.499
lab*tch 0.25 0.5 0.755
lab*nch 0.0 0.5 0.755
relative Natural Colour (NC)
lab*trj 0.34 0.0 -0.499
lab*tce 0.25 0.5 0.755
lab*nce 0.0 0.5 0.755

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 69.17 0.0 0.0
LAB*LAB 69.17 0.0 0.0
LAB*LAB 0.00 0.0 0.0

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)
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 69.17 0.0 0.0
LAB*LAB 69.17 0.0 0.0
LAB*LAB 0.00 0.0 0.0

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

$n^* = 0.25$

blackness n^*

chromaticness c^*

OE580-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

BAM-test chart OE58; Colorimetric systems TLS70 & TLS00

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

input: $cmY0^* \text{ setcmYkcolor}$

output: $cmY0^* / 000n^* \text{ setcmYkcolor}$