

output: *no change compared to input*

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 137/360 = 0.38$

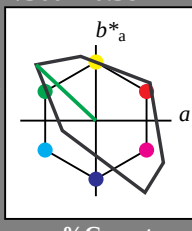
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 84 108 137

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 70$

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 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 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*ce 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 76.07 0.0 0.0
LAB*Lab 76.07 0.0 0.0
LAB*TCa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*ce 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 56.72 0.0 0.0
LAB*Lab 56.72 0.0 0.0
LAB*TCa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*ce 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 37.37 0.0 0.0
LAB*Lab 37.37 0.0 0.0
LAB*TCa 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.25 0.0 0.0
lab*ce 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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
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LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.75 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olv4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 92.55 -19.73 18.48
LAB*Lab 92.55 -19.73 18.48
LAB*TCa 87.5 27.04 136.89

relative CIELAB lab*
lab*lab 0.963 -0.181 0.171
lab*ch 0.875 0.25 0.38
lab*nch 0.0 0.25 0.38
relative Natural Colour (NC)
lab*tr 0.963 -0.21 0.135
lab*ce 0.875 0.25 0.409
lab*nce 0.0 0.25 0.38

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 89.7 -39.48 36.96
LAB*Lab 89.7 -39.48 36.96
LAB*TCa 75.0 54.09 136.89

relative CIELAB lab*
lab*lab 0.926 -0.364 0.342
lab*ch 0.75 0.5 0.38
lab*nch 0.0 0.5 0.38
relative Natural Colour (NC)
lab*tr 0.926 -0.42 0.269
lab*ce 0.75 0.5 0.409
lab*nce 0.0 0.5 0.38

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 70.36 -39.48 36.97
LAB*Lab 70.36 -39.48 36.97
LAB*TCa 50.0 54.1 136.89

relative CIELAB lab*
lab*lab 0.889 -0.546 0.512
lab*ch 0.625 0.75 0.38
lab*nch 0.0 0.75 0.38
relative Natural Colour (NC)
lab*tr 0.889 -0.631 0.404
lab*ce 0.625 0.75 0.409
lab*nce 0.0 0.75 0.38

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.0 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 51.01 -39.48 36.97
LAB*Lab 51.01 -39.48 36.97
LAB*TCa 25.01 54.09 136.89

relative CIELAB lab*
lab*lab 0.639 -0.546 0.512
lab*ch 0.375 0.75 0.38
lab*nch 0.0 0.75 0.38
relative Natural Colour (NC)
lab*tr 0.639 -0.631 0.404
lab*ce 0.375 0.75 0.409
lab*nce 0.0 0.75 0.38

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.5 1.0 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 34.51 -19.73 18.48
LAB*Lab 34.51 -19.73 18.48
LAB*TCa 12.5 27.04 136.89

relative CIELAB lab*
lab*lab 0.213 -0.181 0.171
lab*ch 0.125 0.25 0.38
lab*nch 0.0 0.25 0.38
relative Natural Colour (NC)
lab*tr 0.213 -0.21 0.135
lab*ce 0.125 0.25 0.409
lab*nce 0.0 0.25 0.38

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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
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lab*ch 0.0 0.0 0.0
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lab*nce 1.0 0.0 0.0

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olv3* 0.5 1.0 0.5 (1.0)
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lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
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olv3* 0.0 0.0 0.0 (1.0)
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cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 86.85 -59.22 55.45
LAB*Lab 86.85 -59.22 55.45
LAB*TCa 62.5 81.14 136.89

relative CIELAB lab*
lab*lab 0.889 -0.546 0.512
lab*ch 0.625 0.75 0.38
lab*nch 0.0 0.75 0.38
relative Natural Colour (NC)
lab*tr 0.889 -0.631 0.404
lab*ce 0.625 0.75 0.409
lab*nce 0.0 0.75 0.38

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 70.36 -39.48 36.97
LAB*Lab 70.36 -39.48 36.97
LAB*TCa 50.0 54.1 136.89

relative CIELAB lab*
lab*lab 0.889 -0.546 0.512
lab*ch 0.625 0.75 0.38
lab*nch 0.0 0.75 0.38
relative Natural Colour (NC)
lab*tr 0.889 -0.631 0.404
lab*ce 0.625 0.75 0.409
lab*nce 0.0 0.75 0.38

relative Inform. Technology (IT)
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cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 51.01 -39.48 36.97
LAB*Lab 51.01 -39.48 36.97
LAB*TCa 25.01 54.09 136.89

relative CIELAB lab*
lab*lab 0.639 -0.546 0.512
lab*ch 0.375 0.75 0.38
lab*nch 0.0 0.75 0.38
relative Natural Colour (NC)
lab*tr 0.639 -0.631 0.404
lab*ce 0.375 0.75 0.409
lab*nce 0.0 0.75 0.38

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.5 1.0 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 34.51 -19.73 18.48
LAB*Lab 34.51 -19.73 18.48
LAB*TCa 12.5 27.04 136.89

relative CIELAB lab*
lab*lab 0.213 -0.181 0.171
lab*ch 0.125 0.25 0.38
lab*nch 0.0 0.25 0.38
relative Natural Colour (NC)
lab*tr 0.213 -0.21 0.135
lab*ce 0.125 0.25 0.409
lab*nce 0.0 0.25 0.38

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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCa 0.01 0.01 0.0

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lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 86.85 -59.22 55.45
LAB*Lab 86.85 -59.22 55.45
LAB*TCa 62.5 81.14 136.89

relative CIELAB lab*
lab*lab 0.889 -0.546 0.512
lab*ch 0.625 0.75 0.38
lab*nch 0.0 0.75 0.38
relative Natural Colour (NC)
lab*tr 0.889 -0.631 0.404
lab*ce 0.625 0.75 0.409
lab*nce 0.0 0.75 0.38

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 70.36 -39.48 36.97
LAB*Lab 70.36 -39.48 36.97
LAB*TCa 50.0 54.1 136.89

relative CIELAB lab*
lab*lab 0.889 -0.546 0.512
lab*ch 0.625 0.75 0.38
lab*nch 0.0 0.75 0.38
relative Natural Colour (NC)
lab*tr 0.889 -0.631 0.404
lab*ce 0.625 0.75 0.409
lab*nce 0.0 0.75 0.38

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.0 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 51.01 -39.48 36.97
LAB*Lab 51.01 -39.48 36.97
LAB*TCa 25.01 54.09 136.89

relative CIELAB lab*
lab*lab 0.639 -0.546 0.512
lab*ch 0.375 0.75 0.38
lab*nch 0.0 0.75 0.38
relative Natural Colour (NC)
lab*tr 0.639 -0.631 0.404
lab*ce 0.375 0.75 0.409
lab*nce 0.0 0.75 0.38

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.5 1.0 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 34.51 -19.73 18.48
LAB*Lab 34.51 -19.73 18.48
LAB*TCa 12.5 27.04 136.89

relative CIELAB lab*
lab*lab 0.213 -0.181 0.171
lab*ch 0.125 0.25 0.38
lab*nch 0.0 0.25 0.38
relative Natural Colour (NC)
lab*tr 0.213 -0.21 0.135
lab*ce 0.125 0.25 0.409
lab*nce 0.0 0.25 0.38

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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*Lab 18.03 0.0 0.0
LAB*TCa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab \cdot h = 196/360 = 0.546$

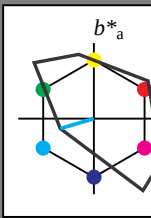
$lab \cdot tch$ and $lab \cdot nch$

D65: hue C

LCH*Ma: 87 46 196

olv*Ma: 0.0 1.0 1.0

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*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 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*trc 1.0 0.0 0.0
lab*ncc 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*LABb 75.00 0.01 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*trc 0.75 0.0 0.0
lab*ncc 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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 50.00 0.01 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*trc 0.5 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 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*trc 0.25 0.0 0.0
lab*ncc 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 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 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*trc 0.0 0.0 0.0
lab*ncc 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 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.75 1.0 1.0 1.0
cmyn4* 0.25 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 93.34 -11.09 -3.27
LAB*LABa 93.34 -11.09 -3.27
LAB*LABb 87.5 11.57 196.46

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.875 0.25 0.546
lab*nch 0.0 0.25 0.546
relative Natural Colour (NC)
lab*trj 0.973 -0.219 -0.117
lab*trc 0.875 0.25 0.578
lab*ncc 0.0 0.25 0.831b

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.75 (1.0)
cmyn3* 0.5 0.25 0.25 (0.0)
olv4* 0.75 1.0 1.0 0.75
cmyn4* 0.5 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 73.99 -11.1 -3.27
LAB*LABa 73.99 -11.1 -3.27
LAB*LABb 62.5 11.58 196.46

relative CIELAB lab*
lab*lab 0.5 0.75 0.75 (1.0)
lab*tch 0.625 0.25 0.546
lab*nch 0.0 0.25 0.546
relative Natural Colour (NC)
lab*trj 0.723 -0.219 -0.117
lab*trc 0.625 0.25 0.578
lab*ncc 0.25 0.25 0.831b

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.5 (0.0)
cmyn3* 0.75 0.5 0.5 (0.0)
olv4* 0.75 1.0 1.0 0.5
cmyn4* 0.25 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 54.00 -11.1 -3.27
LAB*LABa 54.00 -11.1 -3.27
LAB*LABb 46.4 11.57 196.46

relative CIELAB lab*
lab*lab 0.25 0.5 0.5 (0.0)
lab*tch 0.375 0.25 0.546
lab*nch 0.0 0.25 0.546
relative Natural Colour (NC)
lab*trj 0.473 -0.219 -0.117
lab*trc 0.375 0.25 0.578
lab*ncc 0.5 0.25 0.831b

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (0.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 0.75 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 35.28 -11.1 -3.27
LAB*LABa 35.28 -11.1 -3.27
LAB*LABb 25.01 11.57 196.46

relative CIELAB lab*
lab*lab 0.0 0.5 0.5 (0.0)
lab*tch 0.25 0.25 0.546
lab*nch 0.0 0.25 0.546
relative Natural Colour (NC)
lab*trj 0.447 -0.219 -0.117
lab*trc 0.25 0.25 0.578
lab*ncc 0.5 0.25 0.831b

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

TLS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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
 $g^*_{H,rel} = 22$
 $g^*_{C,rel} = 40$

relative Inform. Technology (IT)
olv3* 0.5 1.0 1.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 0.5 1.0 1.0 1.0
cmyn4* 0.5 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 91.27 -22.2 -6.55
LAB*LABa 91.27 -22.2 -6.55
LAB*LABb 75.0 23.15 196.46

relative CIELAB lab*
lab*lab 0.946 -0.478 -0.141
lab*tch 0.75 0.5 0.546
lab*nch 0.0 0.5 0.546
relative Natural Colour (NC)
lab*trj 0.946 -0.44 -0.235
lab*trc 0.75 0.5 0.578
lab*ncc 0.0 0.5 0.831b

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.5 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 0.75
cmyn4* 0.5 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.93 -22.2 -6.55
LAB*LABa 71.93 -22.2 -6.55
LAB*LABb 50.0 23.16 196.46

relative CIELAB lab*
lab*lab 0.697 -0.478 -0.141
lab*tch 0.5 0.5 0.546
lab*nch 0.0 0.5 0.546
relative Natural Colour (NC)
lab*trj 0.697 -0.44 -0.235
lab*trc 0.5 0.5 0.578
lab*ncc 0.0 0.5 0.831b

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.75 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.5 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -22.2 -6.55
LAB*LABa 56.71 -22.2 -6.55
LAB*LABb 50.0 23.16 196.46

relative CIELAB lab*
lab*lab 0.5 0.75 0.75 (1.0)
lab*tch 0.5 0.5 0.546
lab*nch 0.0 0.5 0.546
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.578
lab*trc 0.5 0.5 0.578
lab*ncc 0.0 0.5 0.831b

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.25 (0.0)
cmyn3* 1.0 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 37.37 -22.2 -6.55
LAB*LABa 37.37 -22.2 -6.55
LAB*LABb 25.01 23.16 196.46

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.546
lab*nch 0.0 0.25 0.546
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.578
lab*trc 0.25 0.25 0.578
lab*ncc 0.0 0.25 0.831b

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.5 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

0.00

chromaticness c^*

0.25

0.50

0.75

1.00

$n^* = 1.0$

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 236/360 = 0.656$

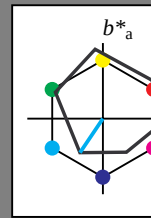
$lab \cdot tch$ and $lab \cdot nch$

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0

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 -0.98 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 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*trc 1.0 0.0 0.0
lab*ncc 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 75.00 0.01 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*trc 0.75 0.0 0.0
lab*ncc 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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 -0.24 2.14
LAB*LABb 50.0 0.01 0.01

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.546
lab*nch 0.0 0.5 0.546
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.578
lab*trc 0.5 0.5 0.578
lab*ncc 0.0 0.5 0.831b

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 37.36 -0.24 2.14
LAB*LABa 37.36 -0.24 2.14
LAB*LABb 25.00 0.01 0.01

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (0.0)
lab*tch 0.25 0.25 0.546
lab*nch 0.0 0.25 0.546
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.578
lab*trc 0.25 0.25 0.578
lab*ncc 0.0 0.25 0.831b

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 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 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*trc 0.0 0.0 0.0
lab*ncc 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 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

0.00

chromaticness c^*

0.25

0.50

0.75

1.00

$n^* = 1.0$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	h^*_{ab}
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab \cdot h = 304/360 = 0.845$

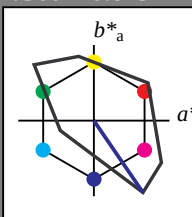
$lab \cdot tch$ and $lab \cdot nch$

D65: hue V

LCH*Ma: 35 115 304

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	52.76	71.63	49.88	87.29	35
YMa	92.74	-20.02	84.97	87.3	103
LMa	84.0	-78.98	73.94	108.2	137
CMa	87.14	-44.41	-13.11	46.32	196
VMa	35.47	64.92	-95.06	115.12	304
MMa	59.01	89.33	-55.67	105.26	328
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmv3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*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)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 0.75 0.75 (1.0)
cmv4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 80.42 16.22 -23.75
LAB*LABa 80.42 16.22 -23.75
LAB*TCHa 87.5 28.77 304.33

relative CIELAB lab*
lab*lab 0.806 0.141 -0.205
lab*tch 0.875 0.25 0.845
lab*nch 0.0 0.25 0.845
relative Natural Colour (NC)
lab*trj 0.806 0.109 -0.224
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*TCHa 75.0 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 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 0.75 0.75 0.75 (1.0)
cmv4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 65.44 32.45 -47.52
LAB*LABa 65.44 32.45 -47.52
LAB*TCHa 75.0 57.55 304.33

relative CIELAB lab*
lab*lab 0.613 0.282 -0.412
lab*tch 0.75 0.5 0.845
lab*nch 0.0 0.5 0.845
relative Natural Colour (NC)
lab*trj 0.613 0.217 -0.449
lab*tce 0.75 0.5 0.824
lab*nce 0.0 0.5 0.824

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmv3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCHa 50.0 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)
cmv3* 0.75 0.75 0.75 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmv4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 46.09 32.46 -47.53
LAB*LABa 46.09 32.46 -47.53
LAB*TCHa 50.0 57.55 304.33

relative CIELAB lab*
lab*lab 0.419 0.423 -0.618
lab*tch 0.625 0.75 0.845
lab*nch 0.0 0.75 0.845
relative Natural Colour (NC)
lab*trj 0.419 0.326 -0.674
lab*tce 0.625 0.75 0.824
lab*nce 0.0 0.75 0.824

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmv3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*TCHa 25.0 0.01

relative CIELAB lab*
lab*lab 0.306 0.141 -0.205
lab*tch 0.375 0.25 0.845
lab*nch 0.0 0.25 0.845
relative Natural Colour (NC)
lab*trj 0.306 0.109 -0.224
lab*tce 0.375 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmv4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 26.75 32.45 -47.52
LAB*LABa 26.75 32.45 -47.52
LAB*TCHa 25.01 57.55 304.33

relative CIELAB lab*
lab*lab 0.169 0.423 -0.618
lab*tch 0.375 0.75 0.845
lab*nch 0.0 0.75 0.845
relative Natural Colour (NC)
lab*trj 0.169 0.326 -0.674
lab*tce 0.375 0.75 0.824
lab*nce 0.0 0.75 0.824

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.056 0.141 -0.205
lab*tch 0.125 0.25 0.845
lab*nch 0.0 0.25 0.845
relative Natural Colour (NC)
lab*trj 0.056 0.109 -0.224
lab*tce 0.125 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 0.25 0.25 0.25 (1.0)
cmv4* 0.75 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 22.38 16.22 -23.75
LAB*LABa 22.38 16.22 -23.75
LAB*TCHa 12.5 28.77 304.33

relative CIELAB lab*
lab*lab 0.056 0.141 -0.205
lab*tch 0.125 0.25 0.845
lab*nch 0.0 0.25 0.845
relative Natural Colour (NC)
lab*trj 0.056 0.109 -0.224
lab*tce 0.125 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*TCHa 0.01 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)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmv4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 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

Output: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 305/360 = 0.847$

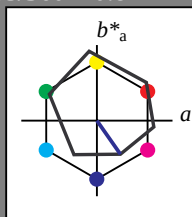
$lab \cdot tch$ and $lab \cdot nch$

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmv3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.98 4.75
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)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 0.75 0.75 0.75 (1.0)
cmv4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 77.99 7.12 -7.51
LAB*LABa 77.99 7.12 -7.51
LAB*TCHa 87.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.775 0.143 -0.204
lab*tch 0.875 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.775 0.112 -0.222
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmv3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01

relative CIELAB lab*
lab*lab 0.5 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* 0.25 0.25 0.25 (1.0)
cmv3* 0.75 0.75 0.75 (0.0)
olv4* 0.75 0.75 0.75 (1.0)
cmv4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 58.64 7.49 -8.82
LAB*LABa 58.64 7.49 -8.82
LAB*TCHa 62.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.525 0.143 -0.204
lab*tch 0.625 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.525 0.112 -0.222
lab*tce 0.625 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmv4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 35.47 64.91 -95.04
LAB*LABa 35.47 64.91 -95.04
LAB*TCHa 50.0 115.1 304.33

relative CIELAB lab*
lab*lab 0.228 0.564 -0.825
lab*tch 0.5 1.0 0.845
lab*nch 0.0 1.0 0.845
relative Natural Colour (NC)
lab*trj 0.228 0.435 -0.899
lab*tce 0.5 1.0 0.824
lab*nce 0.0 1.0 0.824

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmv3* 0.75 0.75 0.75 (0.0)
olv4* 0.75 0.75 0.75 (1.0)
cmv4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 39.29 7.87 -10.13
LAB*LABa 39.29 7.87 -10.13
LAB*TCHa 37.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.25 0.143 -0.204
lab*tch 0.375 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.25 0.112 -0.222
lab*tce 0.375 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmv3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 19.97 0.13 0.24
LAB*LABa 19.97 0.13 0.24
LAB*TCHa 19.94 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)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmv4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 21.87 15.55 -22.19
LAB*LABa 21.87 15.55 -22.19
LAB*TCHa 25.01 27.1 305.0

relative CIELAB lab*
lab*lab 0.05 0.287 -0.408
lab*tch 0.25 0.5 0.847
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*trj 0.05 0.225 -0.446
lab*tce 0.25 0.5 0.824
lab*nce 0.0 0.5 0.824

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmv4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmv4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 19.94 7.77 -11.09
LAB*LABa 19.94 7.77 -11.09
LAB*TCHa 12.5 13.55 305.0

relative CIELAB lab*
lab*lab 0.025 0.143 -0.204
lab*tch 0.125 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.025 0.112 -0.222
lab*tce 0.125 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmv3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmv4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 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

OE560-7, 5 step scales for constant CIELAB hue 304/360 = 0.845 (left)

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

BAM-test chart OE56; Colorimetric systems TLS18 & ORS18

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

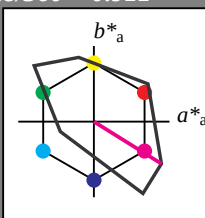
input: `cmv0* setcmvcolor`

output: *no change compared to input*

Input: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 328/360 = 0.911$
 lab^*tch and lab^*nch

D65: hue M
LCH*Ma: 59 105 328
olv*Ma: 1.0 0.0 1.0
triangle lightness t^*



TLS18; adapted (a) CIELAB data					
	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 46.31$

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 86.31 22.32 -13.9
LAB*LABa 86.31 22.32 -13.9
LAB*LABb 86.31 22.32 -13.9
LAB*LABc 86.31 22.32 -13.9
LAB*LABd 86.31 22.32 -13.9
LAB*LABe 86.31 22.32 -13.9
LAB*LABf 86.31 22.32 -13.9
LAB*LABg 86.31 22.32 -13.9
LAB*LABh 86.31 22.32 -13.9
LAB*LABi 86.31 22.32 -13.9
LAB*LABj 86.31 22.32 -13.9
LAB*LABk 86.31 22.32 -13.9
LAB*LABl 86.31 22.32 -13.9
LAB*LABm 86.31 22.32 -13.9
LAB*LABn 86.31 22.32 -13.9
LAB*LABo 86.31 22.32 -13.9
LAB*LABp 86.31 22.32 -13.9
LAB*LABq 86.31 22.32 -13.9
LAB*LABr 86.31 22.32 -13.9
LAB*LABs 86.31 22.32 -13.9
LAB*LABt 86.31 22.32 -13.9
LAB*LABu 86.31 22.32 -13.9
LAB*LABv 86.31 22.32 -13.9
LAB*LABw 86.31 22.32 -13.9
LAB*LABx 86.31 22.32 -13.9
LAB*LABy 86.31 22.32 -13.9
LAB*LABz 86.31 22.32 -13.9

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 77.21 44.66 -27.82
LAB*LABa 77.21 44.66 -27.82
LAB*LABb 77.21 44.66 -27.82
LAB*LABc 77.21 44.66 -27.82
LAB*LABd 77.21 44.66 -27.82
LAB*LABe 77.21 44.66 -27.82
LAB*LABf 77.21 44.66 -27.82
LAB*LABg 77.21 44.66 -27.82
LAB*LABh 77.21 44.66 -27.82
LAB*LABi 77.21 44.66 -27.82
LAB*LABj 77.21 44.66 -27.82
LAB*LABk 77.21 44.66 -27.82
LAB*LABl 77.21 44.66 -27.82
LAB*LABm 77.21 44.66 -27.82
LAB*LABn 77.21 44.66 -27.82
LAB*LABo 77.21 44.66 -27.82
LAB*LABp 77.21 44.66 -27.82
LAB*LABq 77.21 44.66 -27.82
LAB*LABr 77.21 44.66 -27.82
LAB*LABs 77.21 44.66 -27.82
LAB*LABt 77.21 44.66 -27.82
LAB*LABu 77.21 44.66 -27.82
LAB*LABv 77.21 44.66 -27.82
LAB*LABw 77.21 44.66 -27.82
LAB*LABx 77.21 44.66 -27.82
LAB*LABy 77.21 44.66 -27.82
LAB*LABz 77.21 44.66 -27.82

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 68.11 66.99 -41.74
LAB*LABa 68.11 66.99 -41.74
LAB*LABb 68.11 66.99 -41.74
LAB*LABc 68.11 66.99 -41.74
LAB*LABd 68.11 66.99 -41.74
LAB*LABe 68.11 66.99 -41.74
LAB*LABf 68.11 66.99 -41.74
LAB*LABg 68.11 66.99 -41.74
LAB*LABh 68.11 66.99 -41.74
LAB*LABi 68.11 66.99 -41.74
LAB*LABj 68.11 66.99 -41.74
LAB*LABk 68.11 66.99 -41.74
LAB*LABl 68.11 66.99 -41.74
LAB*LABm 68.11 66.99 -41.74
LAB*LABn 68.11 66.99 -41.74
LAB*LABo 68.11 66.99 -41.74
LAB*LABp 68.11 66.99 -41.74
LAB*LABq 68.11 66.99 -41.74
LAB*LABr 68.11 66.99 -41.74
LAB*LABs 68.11 66.99 -41.74
LAB*LABt 68.11 66.99 -41.74
LAB*LABu 68.11 66.99 -41.74
LAB*LABv 68.11 66.99 -41.74
LAB*LABw 68.11 66.99 -41.74
LAB*LABx 68.11 66.99 -41.74
LAB*LABy 68.11 66.99 -41.74
LAB*LABz 68.11 66.99 -41.74

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 59.01 89.33 -55.67
LAB*LABa 59.01 89.33 -55.67
LAB*LABb 59.01 89.33 -55.67
LAB*LABc 59.01 89.33 -55.67
LAB*LABd 59.01 89.33 -55.67
LAB*LABe 59.01 89.33 -55.67
LAB*LABf 59.01 89.33 -55.67
LAB*LABg 59.01 89.33 -55.67
LAB*LABh 59.01 89.33 -55.67
LAB*LABi 59.01 89.33 -55.67
LAB*LABj 59.01 89.33 -55.67
LAB*LABk 59.01 89.33 -55.67
LAB*LABl 59.01 89.33 -55.67
LAB*LABm 59.01 89.33 -55.67
LAB*LABn 59.01 89.33 -55.67
LAB*LABo 59.01 89.33 -55.67
LAB*LABp 59.01 89.33 -55.67
LAB*LABq 59.01 89.33 -55.67
LAB*LABr 59.01 89.33 -55.67
LAB*LABs 59.01 89.33 -55.67
LAB*LABt 59.01 89.33 -55.67
LAB*LABu 59.01 89.33 -55.67
LAB*LABv 59.01 89.33 -55.67
LAB*LABw 59.01 89.33 -55.67
LAB*LABx 59.01 89.33 -55.67
LAB*LABy 59.01 89.33 -55.67
LAB*LABz 59.01 89.33 -55.67

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 50.01 105.24 328.06
LAB*LABa 50.01 105.24 328.06
LAB*LABb 50.01 105.24 328.06
LAB*LABc 50.01 105.24 328.06
LAB*LABd 50.01 105.24 328.06
LAB*LABe 50.01 105.24 328.06
LAB*LABf 50.01 105.24 328.06
LAB*LABg 50.01 105.24 328.06
LAB*LABh 50.01 105.24 328.06
LAB*LABi 50.01 105.24 328.06
LAB*LABj 50.01 105.24 328.06
LAB*LABk 50.01 105.24 328.06
LAB*LABl 50.01 105.24 328.06
LAB*LABm 50.01 105.24 328.06
LAB*LABn 50.01 105.24 328.06
LAB*LABo 50.01 105.24 328.06
LAB*LABp 50.01 105.24 328.06
LAB*LABq 50.01 105.24 328.06
LAB*LABr 50.01 105.24 328.06
LAB*LABs 50.01 105.24 328.06
LAB*LABt 50.01 105.24 328.06
LAB*LABu 50.01 105.24 328.06
LAB*LABv 50.01 105.24 328.06
LAB*LABw 50.01 105.24 328.06
LAB*LABx 50.01 105.24 328.06
LAB*LABy 50.01 105.24 328.06
LAB*LABz 50.01 105.24 328.06

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 48.76 66.99 -41.74
LAB*LABa 48.76 66.99 -41.74
LAB*LABb 48.76 66.99 -41.74
LAB*LABc 48.76 66.99 -41.74
LAB*LABd 48.76 66.99 -41.74
LAB*LABe 48.76 66.99 -41.74
LAB*LABf 48.76 66.99 -41.74
LAB*LABg 48.76 66.99 -41.74
LAB*LABh 48.76 66.99 -41.74
LAB*LABi 48.76 66.99 -41.74
LAB*LABj 48.76 66.99 -41.74
LAB*LABk 48.76 66.99 -41.74
LAB*LABl 48.76 66.99 -41.74
LAB*LABm 48.76 66.99 -41.74
LAB*LABn 48.76 66.99 -41.74
LAB*LABo 48.76 66.99 -41.74
LAB*LABp 48.76 66.99 -41.74
LAB*LABq 48.76 66.99 -41.74
LAB*LABr 48.76 66.99 -41.74
LAB*LABs 48.76 66.99 -41.74
LAB*LABt 48.76 66.99 -41.74
LAB*LABu 48.76 66.99 -41.74
LAB*LABv 48.76 66.99 -41.74
LAB*LABw 48.76 66.99 -41.74
LAB*LABx 48.76 66.99 -41.74
LAB*LABy 48.76 66.99 -41.74
LAB*LABz 48.76 66.99 -41.74

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 37.51 78.94 328.06
LAB*LABa 37.51 78.94 328.06
LAB*LABb 37.51 78.94 328.06
LAB*LABc 37.51 78.94 328.06
LAB*LABd 37.51 78.94 328.06
LAB*LABe 37.51 78.94 328.06
LAB*LABf 37.51 78.94 328.06
LAB*LABg 37.51 78.94 328.06
LAB*LABh 37.51 78.94 328.06
LAB*LABi 37.51 78.94 328.06
LAB*LABj 37.51 78.94 328.06
LAB*LABk 37.51 78.94 328.06
LAB*LABl 37.51 78.94 328.06
LAB*LABm 37.51 78.94 328.06
LAB*LABn 37.51 78.94 328.06
LAB*LABo 37.51 78.94 328.06
LAB*LABp 37.51 78.94 328.06
LAB*LABq 37.51 78.94 328.06
LAB*LABr 37.51 78.94 328.06
LAB*LABs 37.51 78.94 328.06
LAB*LABt 37.51 78.94 328.06
LAB*LABu 37.51 78.94 328.06
LAB*LABv 37.51 78.94 328.06
LAB*LABw 37.51 78.94 328.06
LAB*LABx 37.51 78.94 328.06
LAB*LABy 37.51 78.94 328.06
LAB*LABz 37.51 78.94 328.06

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 18.01 0.0 0.0
LAB*LABa 18.01 0.0 0.0
LAB*LABb 18.01 0.0 0.0
LAB*LABc 18.01 0.0 0.0
LAB*LABd 18.01 0.0 0.0
LAB*LABe 18.01 0.0 0.0
LAB*LABf 18.01 0.0 0.0
LAB*LABg 18.01 0.0 0.0
LAB*LABh 18.01 0.0 0.0
LAB*LABi 18.01 0.0 0.0
LAB*LABj 18.01 0.0 0.0
LAB*LABk 18.01 0.0 0.0
LAB*LABl 18.01 0.0 0.0
LAB*LABm 18.01 0.0 0.0
LAB*LABn 18.01 0.0 0.0
LAB*LABo 18.01 0.0 0.0
LAB*LABp 18.01 0.0 0.0
LAB*LABq 18.01 0.0 0.0
LAB*LABr 18.01 0.0 0.0
LAB*LABs 18.01 0.0 0.0
LAB*LABt 18.01 0.0 0.0
LAB*LABu 18.01 0.0 0.0
LAB*LABv 18.01 0.0 0.0
LAB*LABw 18.01 0.0 0.0
LAB*LABx 18.01 0.0 0.0
LAB*LABy 18.01 0.0 0.0
LAB*LABz 18.01 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 9.01 0.0 0.0
LAB*LABa 9.01 0.0 0.0
LAB*LABb 9.01 0.0 0.0
LAB*LABc 9.01 0.0 0.0
LAB*LABd 9.01 0.0 0.0
LAB*LABe 9.01 0.0 0.0
LAB*LABf 9.01 0.0 0.0
LAB*LABg 9.01 0.0 0.0
LAB*LABh 9.01 0.0 0.0
LAB*LABi 9.01 0.0 0.0
LAB*LABj 9.01 0.0 0.0
LAB*LABk 9.01 0.0 0.0
LAB*LABl 9.01 0.0 0.0
LAB*LABm 9.01 0.0 0.0
LAB*LABn 9.01 0.0 0.0
LAB*LABo 9.01 0.0 0.0
LAB*LABp 9.01 0.0 0.0
LAB*LABq 9.01 0.0 0.0
LAB*LABr 9.01 0.0 0.0
LAB*LABs 9.01 0.0 0.0
LAB*LABt 9.01 0.0 0.0
LAB*LABu 9.01 0.0 0.0
LAB*LABv 9.01 0.0 0.0
LAB*LABw 9.01 0.0 0.0
LAB*LABx 9.01 0.0 0.0
LAB*LABy 9.01 0.0 0.0
LAB*LABz 9.01 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 37.51 78.94 328.06
LAB*LABa 37.51 78.94 328.06
LAB*LABb 37.51 78.94 328.06
LAB*LABc 37.51 78.94 328.06
LAB*LABd 37.51 78.94 328.06
LAB*LABe 37.51 78.94 328.06
LAB*LABf 37.51 78.94 328.06
LAB*LABg 37.51 78.94 328.06
LAB*LABh 37.51 78.94 328.06
LAB*LABi 37.51 78.94 328.06
LAB*LABj 37.51 78.94 328.06
LAB*LABk 37.51 78.94 328.06
LAB*LABl 37.51 78.94 328.06
LAB*LABm 37.51 78.94 328.06
LAB*LABn 37.51 78.94 328.06
LAB*LABo 37.51 78.94 328.06
LAB*LABp 37.51 78.94 328.06
LAB*LABq 37.51 78.94 328.06
LAB*LABr 37.51 78.94 328.06
LAB*LABs 37.51 78.94 328.06
LAB*LABt 37.51 78.94 328.06
LAB*LABu 37.51 78.94 328.06
LAB*LABv 37.51 78.94 328.06
LAB*LABw 37.51 78.94 328.06
LAB*LABx 37.51 78.94 328.06
LAB*LABy 37.51 78.94 328.06
LAB*LABz 37.51 78.94 328.06

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 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.61 33.33 -13.91
LAB*LABa 47.61 33.33 -13.91
LAB*LABb 47.61 33.33 -13.91
LAB*LABc 47.61 33.33 -13.91
LAB*LABd 47.61 33.33 -13.91
LAB*LABe 47.61 33.33 -13.91
LAB*LABf 47.61 33.33 -13.91
LAB*LABg 47.61 33.33 -13.91
LAB*LABh 47.61 33.33 -13.91
LAB*LABi 47.61 33.33 -13.91
LAB*LABj 47.61 33.33 -13.91
LAB*LABk 47.61 33.33 -13.91
LAB*LABl 47.61 33.33 -13.91
LAB*LABm 47.61 33.33 -13.91
LAB*LABn 47.61 33.33 -13.91
LAB*LABo 47.61 33.33 -13.91
LAB*LABp 47.61 33.33 -13.91
LAB*LABq 47.61 33.33 -13.91
LAB*LABr 47.61 33.33 -13.91
LAB*LABs 47.61 33.33 -13.91
LAB*LABt 47.61 33.33 -13.91
LAB*LABu 47.61 33.33 -13.91
LAB*LABv 47.61 33.33 -13.91
LAB*LABw 47.61 33.33 -13.91
LAB*LABx 47.61 33.33 -13.91
LAB*LABy 47.61 33.33 -13.91
LAB*LABz 47.61 33.33 -13.91

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 0.75 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.86 44.67 -27.83
LAB*LABa 57.86 44.67 -27.83
LAB*LABb 57.86 44.67 -27.83
LAB*LABc 57.86 44.67 -27.83
LAB*LABd 57.86 44.67 -27.83
LAB*LABe 57.86 44.67 -27.83
LAB*LABf 57.86 44.67 -27.83
LAB*LABg 57.86 44.67 -27.83
LAB*LABh 57.86 44.67 -27.83
LAB*LABi 57.86 44.67 -27.83
LAB*LABj 57.86 44.67 -27.83
LAB*LABk 57.86 44.67 -27.83
LAB*LABl 57.86 44.67 -27.83
LAB*LABm 57.86 44.67 -27.83
LAB*LABn 57.86 44.67 -27.83
LAB*LABo 57.86 44.67 -27.83
LAB*LABp 57.86 44.67 -27.83
LAB*LABq 57.86 44.67 -27.83
LAB*LABr 57.86 44.67 -27.83
LAB*LABs 57.86 44.67 -27.83
LAB*LABt 57.86 44.67 -27.83
LAB*LABu 57.86 44.67 -27.83
LAB*LABv 57.86 44.67 -27.83
LAB*LABw 57.86 44.67 -27.83
LAB*LABx 57.86 44.67 -27.83
LAB*LABy 57.86 44.67 -27.83
LAB*LABz 57.86 44.67 -27.83

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 68.11 66.99 -41.74
LAB*LABa 68.11 66.99 -41.74
LAB*LABb 68.11 66.99 -41.74
LAB*LABc 68.11 66.99 -41.74
LAB*LABd 68.11 66.99 -41.74
LAB*LABe 68.11 66.99 -41.74
LAB*LABf 68.11 66.99 -41.74
LAB*LABg 68.11 66.99 -41.74
LAB*LABh 68.11 66.99 -41.74
LAB*LABi 68.11 66.99 -41.74
LAB*LABj 68.11 66.99 -41.74
LAB*LABk 68.11 66.99 -41.74
LAB*LABl 68.11 66.99 -41.74
LAB*LABm 68.11 66.99 -41.74
LAB*LABn 68.11 66.99 -41.74
LAB*LABo 68.11 66.99 -41.74
LAB*LABp 68.11 66.99 -41.74
LAB*LABq 68.11 66.99 -41.74
LAB*LABr 68.11 66.99 -41.74
LAB*LABs 68.11 66.99 -41.74
LAB*LABt 68.11 66.99 -41.74
LAB*LABu 68.11 66.99 -41.74
LAB*LABv 68.11 66.99 -41.74
LAB*LABw 68.11 66.99 -41.74
LAB*LABx 68.11 66.99 -41.74
LAB*LABy 68.11 66.99 -41.74
LAB*LABz 68.11 66.99 -41.74

Input: Colorimetric Television Luminous System TLS18

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

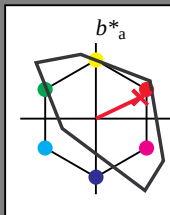
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 54 82 25

olv*Ma: 1.0 0.0 0.14

triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	84.96	18.51	8.82
LAB*LAB	84.96	18.51	8.82
LAB*LAB	84.96	18.51	8.82

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	74.51	37.03	17.64
LAB*LAB	74.51	37.03	17.64
LAB*LAB	74.51	37.03	17.64

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	64.07	55.55	26.47
LAB*LAB	64.07	55.55	26.47
LAB*LAB	64.07	55.55	26.47

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	76.06	-0.61	3.44
LAB*LAB	76.06	-0.61	3.44
LAB*LAB	76.06	-0.61	3.44

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	-0.98	4.75
LAB*LAB	95.41	-0.98	4.75
LAB*LAB	95.41	-0.98	4.75

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)

standard and adapted CIELAB

LAB*LAB	83.55	16.38	11.84
LAB*LAB	83.55	16.38	11.84
LAB*LAB	83.55	16.38	11.84

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.661	(1.0)
olv3*	0.0	0.5	0.339	(0.0)
olv4*	1.0	0.5	0.661	(1.0)
olv4*	0.0	0.5	0.339	(0.0)
olv4*	0.0	0.5	0.339	(0.0)

standard and adapted CIELAB

LAB*LAB	71.7	34.29	15.76
LAB*LAB	71.7	34.29	15.76
LAB*LAB	71.7	34.29	15.76

relative Inform. Technology (IT)

olv3*	1.0	0.25	0.694	(1.0)
olv3*	0.0	0.25	0.306	(0.0)
olv4*	1.0	0.25	0.694	(1.0)
olv4*	0.0	0.25	0.306	(0.0)
olv4*	0.0	0.25	0.306	(0.0)

standard and adapted CIELAB

LAB*LAB	59.85	51.12	26.01
LAB*LAB	59.85	51.12	26.01
LAB*LAB	59.85	51.12	26.01

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.541	(1.0)
olv3*	0.0	0.0	0.459	(0.0)
olv4*	1.0	0.0	0.541	(1.0)
olv4*	0.0	0.0	0.459	(0.0)
olv4*	0.0	0.0	0.459	(0.0)

standard and adapted CIELAB

LAB*LAB	48.0	68.48	33.09
LAB*LAB	48.0	68.48	33.09
LAB*LAB	48.0	68.48	33.09

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	76.07	0.0	0.0
LAB*LAB	76.07	0.0	0.0
LAB*LAB	76.07	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.5	0.535	(1.0)
olv3*	0.25	0.5	0.465	(0.0)
olv4*	1.0	0.75	0.785	(1.0)
olv4*	0.0	0.25	0.215	(0.0)
olv4*	0.0	0.25	0.215	(0.0)

standard and adapted CIELAB

LAB*LAB	65.61	18.52	8.82
LAB*LAB	65.61	18.52	8.82
LAB*LAB	65.61	18.52	8.82

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.431	(1.0)
olv3*	0.25	0.0	0.569	(0.0)
olv4*	1.0	0.75	0.785	(1.0)
olv4*	0.0	0.25	0.215	(0.0)
olv4*	0.0	0.25	0.215	(0.0)

standard and adapted CIELAB

LAB*LAB	55.17	37.04	17.65
LAB*LAB	55.17	37.04	17.65
LAB*LAB	55.17	37.04	17.65

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.396	(1.0)
olv3*	0.25	0.0	0.604	(0.0)
olv4*	1.0	0.75	0.785	(1.0)
olv4*	0.0	0.25	0.215	(0.0)
olv4*	0.0	0.25	0.215	(0.0)

standard and adapted CIELAB

LAB*LAB	44.72	55.55	26.48
LAB*LAB	44.72	55.55	26.48
LAB*LAB	44.72	55.55	26.48

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.359	(1.0)
olv3*	0.25	0.0	0.641	(0.0)
olv4*	1.0	0.75	0.785	(1.0)
olv4*	0.0	0.25	0.215	(0.0)
olv4*	0.0	0.25	0.215	(0.0)

standard and adapted CIELAB

LAB*LAB	53.62	74.06	35.3
LAB*LAB	53.62	74.06	35.3
LAB*LAB	53.62	74.06	35.3

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.337	(1.0)
olv3*	0.25	0.0	0.663	(0.0)
olv4*	1.0	0.75	0.785	(1.0)
olv4*	0.0	0.25	0.215	(0.0)
olv4*	0.0	0.25	0.215	(0.0)

standard and adapted CIELAB

LAB*LAB	56.71	2.24	21.4
LAB*LAB	56.71	2.24	21.4
LAB*LAB	56.71	2.24	21.4

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.71	0.0	0.0
LAB*LAB	56.71	0.0	0.0
LAB*LAB	56.71	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.337	(1.0)
olv3*	0.25	0.75	0.663	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)

standard and adapted CIELAB

LAB*LAB	64.21	16.75	10.54
LAB*LAB	64.21	16.75	10.54
LAB*LAB	64.21	16.75	10.54

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.444	(1.0)
olv3*	0.25	0.0	0.556	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)

standard and adapted CIELAB

LAB*LAB	52.36	34.29	15.77
LAB*LAB	52.36	34.29	15.77
LAB*LAB	52.36	34.29	15.77

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.444	(1.0)
olv3*	0.25	0.0	0.556	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)

standard and adapted CIELAB

LAB*LAB	40.51	51.42	23.63
LAB*LAB	40.51	51.42	23.63
LAB*LAB	40.51	51.42	23.63

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.72	0.0	0.0
LAB*LAB	56.72	0.0	0.0
LAB*LAB	56.72	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.288	(1.0)
olv3*	0.25	0.75	0.712	(0.0)
olv4*	1.0	0.75	0.785	(1.0)
olv4*	0.0	0.25	0.215	(0.0)
olv4*	0.0	0.25	0.215	(0.0)

standard and adapted CIELAB

LAB*LAB	46.26	18.52	8.82
LAB*LAB	46.26	18.52	8.82
LAB*LAB	46.26	18.52	8.82

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.431	(1.0)
olv3*	0.25	0.0	0.569	(0.0)
olv4*	1.0	0.75	0.785	(1.0)
olv4*	0.0	0.25	0.215	(0.0)
olv4*	0.0	0.25	0.215	(0.0)

standard and adapted CIELAB

LAB*LAB	51.17	37.04	17.65
LAB*LAB	51.17	37.04	17.65
LAB*LAB	51.17	37.04	17.65

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.396	(1.0)
olv3*	0.25	0.0	0.604	(0.0)
olv4*	1.0	0.75	0.785	(1.0)
olv4*	0.0	0.25	0.215	(0.0)
olv4*	0.0	0.25	0.215	(0.0)

standard and adapted CIELAB

LAB*LAB	44.72	55.55	26.48
LAB*LAB	44.72	55.55	26.48
LAB*LAB	44.72	55.55	26.48

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.359	(1.0)
olv3*	0.25	0.0	0.641	(0.0)
olv4*	1.0	0.75	0.785	(1.0)
olv4*	0.0	0.25	0.215	(0.0)
olv4*	0.0	0.25	0.215	(0.0)

standard and adapted CIELAB

LAB*LAB	53.62	74.06	35.3
LAB*LAB	53.62	74.06	35.3
LAB*LAB	53.62	74.06	35.3

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.71	0.0	0.0
LAB*LAB	56.71	0.0	0.0
LAB*LAB	56.71	0.0	0.0

olv3*	0.5	0.25	0.337	(1.0)
olv3*	0.25	0.75	0.663	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0			

Input: Colorimetric Television Luminous System TLS18

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

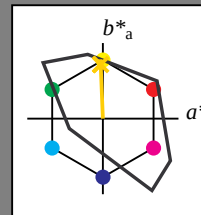
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 85 79 92

olv*Ma: 1.0 0.82 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 118$

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 0.0
LAB*LABc 99.99 0.01 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*trc 1.0 0.0 0.0
lab*trb 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.954 0.75 (1.0)
cmyn3* 0.0 0.046 0.25 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 92.9 0.0 0.0
LAB*LABa 92.9 0.0 0.0
LAB*LABb 92.9 0.0 0.0
LAB*LABc 92.9 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.908 0.5 (1.0)
cmyn3* 0.0 0.092 0.5 (0.0)
olv4* 1.0 0.908 0.5 (1.0)
cmyn4* 0.0 0.092 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 90.39 0.0 0.0
LAB*LABa 90.39 0.0 0.0
LAB*LABb 90.39 0.0 0.0
LAB*LABc 90.39 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.862 0.25 (1.0)
cmyn3* 0.0 0.138 0.75 (0.0)
olv4* 1.0 0.862 0.25 (1.0)
cmyn4* 0.0 0.138 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 87.89 0.0 0.0
LAB*LABa 87.89 0.0 0.0
LAB*LABb 87.89 0.0 0.0
LAB*LABc 87.89 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.825 0.0 (1.0)
cmyn3* 0.0 0.175 0.0 (0.0)
olv4* 1.0 0.825 0.0 (1.0)
cmyn4* 0.0 0.175 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 85.38 0.0 0.0
LAB*LABa 85.38 0.0 0.0
LAB*LABb 85.38 0.0 0.0
LAB*LABc 85.38 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.775 0.0 (1.0)
cmyn3* 0.0 0.225 0.0 (0.0)
olv4* 1.0 0.775 0.0 (1.0)
cmyn4* 0.0 0.225 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 82.89 0.0 0.0
LAB*LABa 82.89 0.0 0.0
LAB*LABb 82.89 0.0 0.0
LAB*LABc 82.89 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.725 0.0 (1.0)
cmyn3* 0.0 0.275 0.0 (0.0)
olv4* 1.0 0.725 0.0 (1.0)
cmyn4* 0.0 0.275 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.39 0.0 0.0
LAB*LABa 80.39 0.0 0.0
LAB*LABb 80.39 0.0 0.0
LAB*LABc 80.39 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.675 0.0 (1.0)
cmyn3* 0.0 0.325 0.0 (0.0)
olv4* 1.0 0.675 0.0 (1.0)
cmyn4* 0.0 0.325 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 77.89 0.0 0.0
LAB*LABa 77.89 0.0 0.0
LAB*LABb 77.89 0.0 0.0
LAB*LABc 77.89 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.625 0.0 (1.0)
cmyn3* 0.0 0.375 0.0 (0.0)
olv4* 1.0 0.625 0.0 (1.0)
cmyn4* 0.0 0.375 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 75.38 0.0 0.0
LAB*LABa 75.38 0.0 0.0
LAB*LABb 75.38 0.0 0.0
LAB*LABc 75.38 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.575 0.0 (1.0)
cmyn3* 0.0 0.425 0.0 (0.0)
olv4* 1.0 0.575 0.0 (1.0)
cmyn4* 0.0 0.425 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 72.89 0.0 0.0
LAB*LABa 72.89 0.0 0.0
LAB*LABb 72.89 0.0 0.0
LAB*LABc 72.89 0.0 0.0

relative Inform. Technology (IT)
olv3* 1.0 0.525 0.0 (1.0)
cmyn3* 0.0 0.475 0.0 (0.0)
olv4* 1.0 0.525 0.0 (1.0)
cmyn4* 0.0 0.475 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 70.39 0.0 0.0
LAB*LABa 70.39 0.0 0.0
LAB*LABb 70.39 0.0 0.0
LAB*LABc 70.39 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 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*LABb 76.07 0.0 0.0
LAB*LABc 76.07 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.704 0.5 (1.0)
cmyn3* 0.25 0.296 0.5 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 73.55 0.0 0.0
LAB*LABa 73.55 0.0 0.0
LAB*LABb 73.55 0.0 0.0
LAB*LABc 73.55 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.658 0.25 (1.0)
cmyn3* 0.25 0.342 0.75 (0.0)
olv4* 1.0 0.908 0.5 (1.0)
cmyn4* 0.0 0.092 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 71.05 0.0 0.0
LAB*LABa 71.05 0.0 0.0
LAB*LABb 71.05 0.0 0.0
LAB*LABc 71.05 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.612 0.0 (1.0)
cmyn3* 0.25 0.388 0.0 (0.0)
olv4* 1.0 0.862 0.25 (1.0)
cmyn4* 0.0 0.138 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 68.54 0.0 0.0
LAB*LABa 68.54 0.0 0.0
LAB*LABb 68.54 0.0 0.0
LAB*LABc 68.54 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.566 0.0 (1.0)
cmyn3* 0.25 0.434 0.0 (0.0)
olv4* 1.0 0.825 0.0 (1.0)
cmyn4* 0.0 0.175 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.04 0.0 0.0
LAB*LABa 66.04 0.0 0.0
LAB*LABb 66.04 0.0 0.0
LAB*LABc 66.04 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.520 0.0 (1.0)
cmyn3* 0.25 0.480 0.0 (0.0)
olv4* 1.0 0.775 0.0 (1.0)
cmyn4* 0.0 0.225 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 63.54 0.0 0.0
LAB*LABa 63.54 0.0 0.0
LAB*LABb 63.54 0.0 0.0
LAB*LABc 63.54 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.474 0.0 (1.0)
cmyn3* 0.25 0.526 0.0 (0.0)
olv4* 1.0 0.725 0.0 (1.0)
cmyn4* 0.0 0.275 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 61.04 0.0 0.0
LAB*LABa 61.04 0.0 0.0
LAB*LABb 61.04 0.0 0.0
LAB*LABc 61.04 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.428 0.0 (1.0)
cmyn3* 0.25 0.572 0.0 (0.0)
olv4* 1.0 0.675 0.0 (1.0)
cmyn4* 0.0 0.325 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 58.54 0.0 0.0
LAB*LABa 58.54 0.0 0.0
LAB*LABb 58.54 0.0 0.0
LAB*LABc 58.54 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.382 0.0 (1.0)
cmyn3* 0.25 0.618 0.0 (0.0)
olv4* 1.0 0.625 0.0 (1.0)
cmyn4* 0.0 0.375 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.04 0.0 0.0
LAB*LABa 56.04 0.0 0.0
LAB*LABb 56.04 0.0 0.0
LAB*LABc 56.04 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.336 0.0 (1.0)
cmyn3* 0.25 0.664 0.0 (0.0)
olv4* 1.0 0.575 0.0 (1.0)
cmyn4* 0.0 0.425 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.54 0.0 0.0
LAB*LABa 53.54 0.0 0.0
LAB*LABb 53.54 0.0 0.0
LAB*LABc 53.54 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.290 0.0 (1.0)
cmyn3* 0.25 0.710 0.0 (0.0)
olv4* 1.0 0.525 0.0 (1.0)
cmyn4* 0.0 0.475 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.04 0.0 0.0
LAB*LABa 51.04 0.0 0.0
LAB*LABb 51.04 0.0 0.0
LAB*LABc 51.04 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 75.00 0.01 0.01
LAB*LABa 75.00 0.01 0.01
LAB*LABb 75.00 0.01 0.01
LAB*LABc 75.00 0.01 0.01

relative Inform. Technology (IT)
olv3* 0.5 0.454 0.25 (1.0)
cmyn3* 0.5 0.546 0.75 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 72.55 0.0 0.0
LAB*LABa 72.55 0.0 0.0
LAB*LABb 72.55 0.0 0.0
LAB*LABc 72.55 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.408 0.0 (1.0)
cmyn3* 0.5 0.592 0.0 (0.0)
olv4* 1.0 0.908 0.5 (1.0)
cmyn4* 0.0 0.092 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 70.05 0.0 0.0
LAB*LABa 70.05 0.0 0.0
LAB*LABb 70.05 0.0 0.0
LAB*LABc 70.05 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.362 0.0 (1.0)
cmyn3* 0.5 0.638 0.0 (0.0)
olv4* 1.0 0.862 0.25 (1.0)
cmyn4* 0.0 0.138 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 67.55 0.0 0.0
LAB*LABa 67.55 0.0 0.0
LAB*LABb 67.55 0.0 0.0
LAB*LABc 67.55 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.316 0.0 (1.0)
cmyn3* 0.5 0.684 0.0 (0.0)
olv4* 1.0 0.825 0.0 (1.0)
cmyn4* 0.0 0.175 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.05 0.0 0.0
LAB*LABa 65.05 0.0 0.0
LAB*LABb 65.05 0.0 0.0
LAB*LABc 65.05 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.270 0.0 (1.0)
cmyn3* 0.5 0.730 0.0 (0.0)
olv4* 1.0 0.775 0.0 (1.0)
cmyn4* 0.0 0.225 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 62.55 0.0 0.0
LAB*LABa 62.55 0.0 0.0
LAB*LABb 62.55 0.0 0.0
LAB*LABc 62.55 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.224 0.0 (1.0)
cmyn3* 0.5 0.776 0.0 (0.0)
olv4* 1.0 0.725 0.0 (1.0)
cmyn4* 0.0 0.275 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 60.05 0.0 0.0
LAB*LABa 60.05 0.0 0.0
LAB*LABb 60.05 0.0 0.0
LAB*LABc 60.05 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.178 0.0 (1.0)
cmyn3* 0.5 0.822 0.0 (0.0)
olv4* 1.0 0.675 0.0 (1.0)
cmyn4* 0.0 0.325 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.55 0.0 0.0
LAB*LABa 57.55 0.0 0.0
LAB*LABb 57.55 0.0 0.0
LAB*LABc 57.55 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.132 0.0 (1.0)
cmyn3* 0.5 0.868 0.0 (0.0)
olv4* 1.0 0.625 0.0 (1.0)
cmyn4* 0.0 0.375 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 55.05 0.0 0.0
LAB*LABa 55.05 0.0 0.0
LAB*LABb 55.05 0.0 0.0
LAB*LABc 55.05 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.086 0.0 (1.0)
cmyn3* 0.5 0.914 0.0 (0.0)
olv4* 1.0 0.575 0.0 (1.0)
cmyn4* 0.0 0.425 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 52.55 0.0 0.0
LAB*LABa 52.55 0.0 0.0
LAB*LABb 52.55 0.0 0.0
LAB*LABc 52.55 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.040 0.0 (1.0)
cmyn3* 0.5 0.960 0.0 (0.0)
olv4* 1.0 0.525 0.0 (1.0)
cmyn4* 0.0 0.475 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.05 0.0 0.0
LAB*LABa 50.05 0.0 0.0
LAB*LABb 50.05 0.0 0.0
LAB*LABc 50.05 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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 56.72 0.0 0.0
LAB*LABc 56.72 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.204 0.5 (1.0)
cmyn3* 0.75 0.796 0.5 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 54.22 0.0 0.0
LAB*LABa 54.22 0.0 0.0
LAB*LABb 54.22 0.0 0.0
LAB*LABc 54.22 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.158 0.0 (1.0)
cmyn3* 0.75 0.842 0.0 (0.0)
olv4* 1.0 0.908 0.5 (1.0)
cmyn4* 0.0 0.092 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 51.73 0.0 0.0
LAB*LABa 51.73 0.0 0.0
LAB*LABb 51.73 0.0 0.0
LAB*LABc 51.73 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.112 0.0 (1.0)
cmyn3* 0.75 0.888 0.0 (0.0)
olv4* 1.0 0.862 0.25 (1.0)
cmyn4* 0.0 0.138 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 49.23 0.0 0.0
LAB*LABa 49.23 0.0 0.0
LAB*LABb 49.23 0.0 0.0
LAB*LABc 49.23 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.066 0.0 (1.0)
cmyn3* 0.75 0.934 0.0 (0.0)
olv4* 1.0 0.825 0.0 (1.0)
cmyn4* 0.0 0.175 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 46.73 0.0 0.0
LAB*LABa 46.73 0.0 0.0
LAB*LABb 46.73 0.0 0.0
LAB*LABc 46.73 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.020 0.0 (1.0)
cmyn3* 0.75 0.980 0.0 (0.0)
olv4* 1.0 0.775 0.0 (1.0)
cmyn4* 0.0 0.225 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 44.23 0.0 0.0
LAB*LABa 44.23 0.0 0.0
LAB*LABb 44.23 0.0 0.0
LAB*LABc 44.23 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.000 0.0 (1.0)
cmyn3* 0.75 1.000 0.0 (0.0)
olv4* 1.0 0.725 0.0 (1.0)
cmyn4* 0.0 0.275 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 41.73 0.0 0.0
LAB*LABa 41.73 0.0 0.0
LAB*LABb 41.73 0.0 0.0
LAB*LABc 41.73 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.000 0.0 (1.0)
cmyn3* 0.75 1.000 0.0 (0.0)
olv4* 1.0 0.675 0.0 (1.0)
cmyn4* 0.0 0.325 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 39.23 0.0 0.0
LAB*LABa 39.23 0.0 0.0
LAB*LABb 39.23 0.0 0.0
LAB*LABc 39.23 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.000 0.0 (1.0)
cmyn3* 0.75 1.000 0.0 (0.0)
olv4* 1.0 0.625 0.0 (1.0)
cmyn4* 0.0 0.375 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.73 0.0 0.0
LAB*LABa 36.73 0.0 0.0
LAB*LABb 36.73 0.0 0.0
LAB*LABc 36.73 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.000 0.0 (1.0)
cmyn3* 0.75 1.000 0.0 (0.0)
olv4* 1.0 0.575 0.0 (1.0)
cmyn4* 0.0 0.425 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 34.23 0.0 0.0
LAB*LABa 34.23 0.0 0.0
LAB*LABb 34.23 0.0 0.0
LAB*LABc 34.23 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.000 0.0 (1.0)
cmyn3* 0.75 1.000 0.0 (0.0)
olv4* 1.0 0.525 0.0 (1.0)
cmyn4* 0.0 0.475 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 31.73 0.0 0.0
LAB*LABa 31.73 0.0 0.0
LAB*LABb 31.73 0.0 0.0
LAB*LABc 31.73 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 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 18.03 0.0 0.0
LAB*LABc 18.03 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.736 0.0 (1.0)
cmyn3* 0.75 0.264 0.0 (0.0)
olv4* 1.0 0.954 0.75 (1.0)
cmyn4* 0.0 0.046 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 15.53 0.0 0.0
LAB*LABa 15.53 0.0 0.0
LAB*LABb 15.53 0.0 0.0
LAB*LABc 15.53 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.690 0.0 (1.0)
cmyn3* 0.75 0.310 0.0 (0.0)
olv4* 1.0 0.908 0.5 (1.0)
cmyn4* 0.0 0.092 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 13.03 0.0 0.0
LAB*LABa 13.03 0.0 0.0
LAB*LABb 13.03 0.0 0.0
LAB*LABc 13.03 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.644 0.0 (1.0)
cmyn3* 0.75 0.356 0.0 (0.0)
olv4* 1.0 0.862 0.25 (1.0)
cmyn4* 0.0 0.138 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 10.53 0.0 0.0
LAB*LABa 10.53 0.0 0.0
LAB*LABb 10.53 0.0 0.0
LAB*LABc 10.53 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.598 0.0 (1.0)
cmyn3* 0.75 0.402 0.0 (0.0)
olv4* 1.0 0.825 0.0 (1.0)
cmyn4* 0.0 0.175 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 8.03 0.0 0.0
LAB*LABa 8.03 0.0 0.0
LAB*LABb 8.03 0.0 0.0
LAB*LABc 8.03 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.552 0.0 (1.0)
cmyn3* 0.75 0.448 0.0 (0.0)
olv4* 1.0 0.775 0.0 (1.0)
cmyn4* 0.0 0.225 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 5.53 0.0 0.0
LAB*LABa 5.53 0.0 0.0
LAB*LABb 5.53 0.0 0.0
LAB*LABc 5.53 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.506 0.0 (1.0)
cmyn3* 0.75 0.494 0.0 (0.0)
olv4* 1.0 0.725 0.0 (1.0)
cmyn4* 0.0 0.275 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 3.03 0.0 0.0
LAB*LABa 3.03 0.0 0.0
LAB*LABb 3.03 0.0 0.0
LAB*LABc 3.03 0.0 0.0

Input: Colorimetric Television Luminous System TLS18

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

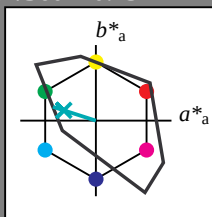
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 86 60 162

olv*Ma: 0.0 1.0 0.64

triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
N _{Ma}	18.01	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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	1.0	0.0
olvi4*	0.75	0.75	0.75	1.0	0.0
olvi5*	0.75	0.75	0.75	1.0	0.0
olvi6*	0.75	0.75	0.75	1.0	0.0
olvi7*	0.75	0.75	0.75	1.0	0.0
olvi8*	0.75	0.75	0.75	1.0	0.0
olvi9*	0.75	0.75	0.75	1.0	0.0
olvi10*	0.75	0.75	0.75	1.0	0.0
olvi11*	0.75	0.75	0.75	1.0	0.0
olvi12*	0.75	0.75	0.75	1.0	0.0
olvi13*	0.75	0.75	0.75	1.0	0.0
olvi14*	0.75	0.75	0.75	1.0	0.0
olvi15*	0.75	0.75	0.75	1.0	0.0
olvi16*	0.75	0.75	0.75	1.0	0.0
olvi17*	0.75	0.75	0.75	1.0	0.0
olvi18*	0.75	0.75	0.75	1.0	0.0
olvi19*	0.75	0.75	0.75	1.0	0.0
olvi20*	0.75	0.75	0.75	1.0	0.0
olvi21*	0.75	0.75	0.75	1.0	0.0
olvi22*	0.75	0.75	0.75	1.0	0.0
olvi23*	0.75	0.75	0.75	1.0	0.0
olvi24*	0.75	0.75	0.75	1.0	0.0
olvi25*	0.75	0.75	0.75	1.0	0.0
olvi26*	0.75	0.75	0.75	1.0	0.0
olvi27*	0.75	0.75	0.75	1.0	0.0
olvi28*	0.75	0.75	0.75	1.0	0.0
olvi29*	0.75	0.75	0.75	1.0	0.0
olvi30*	0.75	0.75	0.75	1.0	0.0
olvi31*	0.75	0.75	0.75	1.0	0.0
olvi32*	0.75	0.75	0.75	1.0	0.0
olvi33*	0.75	0.75	0.75	1.0	0.0
olvi34*	0.75	0.75	0.75	1.0	0.0
olvi35*	0.75	0.75	0.75	1.0	0.0
olvi36*	0.75	0.75	0.75	1.0	0.0
olvi37*	0.75	0.75	0.75	1.0	0.0
olvi38*	0.75	0.75	0.75	1.0	0.0
olvi39*	0.75	0.75	0.75	1.0	0.0
olvi40*	0.75	0.75	0.75	1.0	0.0
olvi41*	0.75	0.75	0.75	1.0	0.0
olvi42*	0.75	0.75	0.75	1.0	0.0
olvi43*	0.75	0.75	0.75	1.0	0.0
olvi44*	0.75	0.75	0.75	1.0	0.0
olvi45*	0.75	0.75	0.75	1.0	0.0
olvi46*	0.75	0.75	0.75	1.0	0.0
olvi47*	0.75	0.75	0.75	1.0	0.0
olvi48*	0.75	0.75	0.75	1.0	0.0
olvi49*	0.75	0.75	0.75	1.0	0.0
olvi50*	0.75	0.75	0.75	1.0	0.0
olvi51*	0.75	0.75	0.75	1.0	0.0
olvi52*	0.75	0.75	0.75	1.0	0.0
olvi53*	0.75	0.75	0.75	1.0	0.0
olvi54*	0.75	0.75	0.75	1.0	0.0
olvi55*	0.75	0.75	0.75	1.0	0.0
olvi56*	0.75	0.75	0.75	1.0	0.0
olvi57*	0.75	0.75	0.75	1.0	0.0
olvi58*	0.75	0.75	0.75	1.0	0.0
olvi59*	0.75	0.75	0.75	1.0	0.0
olvi60*	0.75	0.75	0.75	1.0	0.0
olvi61*	0.75	0.75	0.75	1.0	0.0
olvi62*	0.75	0.75	0.75	1.0	0.0
olvi63*	0.75	0.75	0.75	1.0	0.0
olvi64*	0.75	0.75	0.75	1.0	0.0
olvi65*	0.75	0.75	0.75	1.0	0.0
olvi66*	0.75	0.75	0.75	1.0	0.0
olvi67*	0.75	0.75	0.75	1.0	0.0
olvi68*	0.75	0.75	0.75	1.0	0.0
olvi69*	0.75	0.75	0.75	1.0	0.0
olvi70*	0.75	0.75	0.75	1.0	0.0
olvi71*	0.75	0.75	0.75	1.0	0.0
olvi72*	0.75	0.75	0.75	1.0	0.0
olvi73*	0.75	0.75	0.75	1.0	0.0
olvi74*	0.75	0.75	0.75	1.0	0.0
olvi75*	0.75	0.75	0.75	1.0	0.0
olvi76*	0.75	0.75	0.75	1.0	0.0
olvi77*	0.75	0.75	0.75	1.0	0.0
olvi78*	0.75	0.75	0.75	1.0	0.0
olvi79*	0.75	0.75	0.75	1.0	0.0
olvi80*	0.75	0.75	0.75	1.0	0.0
olvi81*	0.75	0.75	0.75	1.0	0.0
olvi82*	0.75	0.75	0.75	1.0	0.0
olvi83*	0.75	0.75	0.75	1.0	0.0
olvi84*	0.75	0.75	0.75	1.0	0.0
olvi85*	0.75	0.75	0.75	1.0	0.0
olvi86*	0.75	0.75	0.75	1.0	0.0
olvi87*	0.75	0.75	0.75	1.0	0.0
olvi88*	0.75	0.75	0.75	1.0	0.0
olvi89*	0.75	0.75	0.75	1.0	0.0
olvi90*	0.75	0.75	0.75	1.0	0.0
olvi91*	0.75	0.75	0.75	1.0	0.0
olvi92*	0.75	0.75	0.75	1.0	0.0
olvi93*	0.75	0.75	0.75	1.0	0.0
olvi94*	0.75	0.75	0.75	1.0	0.0
olvi95*	0.75	0.75	0.75	1.0	0.0
olvi96*	0.75	0.75	0.75	1.0	0.0
olvi97*	0.75	0.75	0.75	1.0	0.0
olvi98*	0.75	0.75	0.75	1.0	0.0
olvi99*	0.75	0.75	0.75	1.0	0.0
olvi100*	0.75	0.75	0.75	1.0	0.0

relative Inform. Technology (IT)				
olvi3*	0.75	1.0	0.91	(1.0)
cmyn3*	0.25	0.0	0.09	(0.0)
olvi4*	0.75	1.0	0.91	1.0
cmyn4*	0.25	0.0	0.09	0.0
standard and adapted CIELAB				
LAB*LAB	93.05	-14.2	4.55	
LAB*LABa	93.05	-14.2	4.55	
LAB*TL ₀	87.5	14.92	162.74	

Input: Colorimetric Television Luminous System TLS18

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

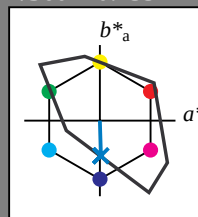
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 65 48 272

olv*Ma: 0.0 0.58 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 118$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.41	0.0	0.0	
LAB*Lab	95.41	0.0	0.0	
LAB*TCa	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)	0.0	0.0	0.0	
lab*trj	0.0	0.0	0.0	
lab*tc	1.0	0.0	0.0	
lab*nc	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)
LAB*LAB	76.07	0.0	0.0	
LAB*Lab	76.07	0.0	0.0	
LAB*TCa	75.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.903	0.007	-0.249	
lab*tch	0.875	0.25	0.755	
lab*nch	0.0	0.25	0.755	
relative Natural Colour (NC)	0.0	0.25	0.755	
lab*trj	0.903	0.0	-0.249	
lab*tc	0.875	0.25	0.755	
lab*nc	0.0	0.25	0.755	

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)
LAB*LAB	56.72	0.0	0.0	
LAB*Lab	56.72	0.0	0.0	
LAB*TCa	50.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.653	0.008	-0.249	
lab*tch	0.625	0.25	0.755	
lab*nch	0.0	0.25	0.755	
relative Natural Colour (NC)	0.0	0.25	0.755	
lab*trj	0.653	0.0	-0.249	
lab*tc	0.625	0.25	0.755	
lab*nc	0.0	0.25	0.755	

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)
LAB*LAB	56.72	0.0	0.0	
LAB*Lab	56.72	0.0	0.0	
LAB*TCa	50.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.3	0.0	0.0	
lab*tch	0.5	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.0	0.0	0.0	
lab*trj	0.5	0.0	0.0	
lab*tc	0.5	0.0	0.0	
lab*nc	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)
LAB*LAB	37.37	0.0	0.0	
LAB*Lab	37.37	0.0	0.0	
LAB*TCa	25.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.403	0.008	-0.249	
lab*tch	0.375	0.25	0.755	
lab*nch	0.0	0.25	0.755	
relative Natural Colour (NC)	0.0	0.25	0.755	
lab*trj	0.403	0.0	-0.249	
lab*tc	0.375	0.25	0.755	
lab*nc	0.0	0.25	0.755	

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)
LAB*LAB	37.37	0.0	0.0	
LAB*Lab	37.37	0.0	0.0	
LAB*TCa	25.0	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.0	0.0	
lab*tch	0.375	0.25	0.755	
lab*nch	0.0	0.25	0.755	
relative Natural Colour (NC)	0.0	0.25	0.755	
lab*trj	0.25	0.0	-0.249	
lab*tc	0.375	0.25	0.755	
lab*nc	0.0	0.25	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)
LAB*LAB	18.03	0.0	0.0	
LAB*Lab	18.03	0.0	0.0	
LAB*TCa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.153	0.008	-0.249	
lab*tch	0.125	0.25	0.755	
lab*nch	0.0	0.25	0.755	
relative Natural Colour (NC)	0.0	0.25	0.755	
lab*trj	0.153	0.0	-0.249	
lab*tc	0.125	0.25	0.755	
lab*nc	0.0	0.25	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)
LAB*LAB	18.03	0.0	0.0	
LAB*Lab	18.03	0.0	0.0	
LAB*TCa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.0	0.0	0.0	
lab*trj	0.0	0.0	0.0	
lab*tc	0.0	0.0	0.0	
lab*nc	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)
LAB*LAB	18.03	0.0	0.0	
LAB*Lab	18.03	0.0	0.0	
LAB*TCa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.0	0.0	0.0	
lab*trj	0.0	0.0	0.0	
lab*tc	0.0	0.0	0.0	
lab*nc	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)
LAB*LAB	18.03	0.0	0.0	
LAB*Lab	18.03	0.0	0.0	
LAB*TCa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.0	0.0	0.0	
lab*trj	0.0	0.0	0.0	
lab*tc	0.0	0.0	0.0	
lab*nc	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)
LAB*LAB	18.03	0.0	0.0	
LAB*Lab	18.03	0.0	0.0	
LAB*TCa	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.0	0.0	0.0	
lab*trj	0.0	0.0	0.0	
lab*tc	0.0	0.0	0.0	
lab*nc	0.0	0.0	0.0	

TLS18; adapted (a) CIELAB data

$L^* = L^*_a$ a^*_a b^*_a $C^*_{ab,a}$ $h^*_{ab,a}$

OMa	52.76	71.63	49.88	87.29	35
YMa	92.74	-20.02	84.97	87.3	103
LMa	84.0	-78.98	73.94	108.2	137
CMa	87.14	-44.41	-13.11	46.32	196
VMa	35.47	64.92	-95.06	115.12	304
MMa	59.01	89.33	-55.67	105.26	328
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

% Regularity

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 118$

relative Inform. Technology (IT)

olvi3*	0.5	0.75	1.0	(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)
LAB*LAB	80.44	0.71	-23.73	
LAB*Lab	80.44	0.71	-23.73	
LAB*TCa	75.0	23.75	271.72	

relative CIELAB lab*

lab*lab	0.807	0.015	-0.499	
lab*tch	0.75	0.5	0.755	
lab*nch	0.0	0.5	0.755	
relative Natural Colour (NC)	0.0	0.5	0.755	
lab*trj	0.807	0.0	-0.499	
lab*tc	0.75	0.5	0.755	
lab*nc	0.0	0.5	0.755	

relative Inform. Technology (IT)

olvi3*	0.25	0.54	0.75	(1.0)
cmyn3*	0.75	0.46	0.25	(0.0)
olvi4*	1.0	0.75	1.0	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	61.09	0.72	-23.74	
LAB*Lab	61.09	0.72	-23.74	
LAB*TCa	50.0	23.76	271.74	

relative CIELAB lab*

lab*lab	0.57	0.015	-0.499	
lab*tch	0.5	0.5	0.755	
lab*nch	0.0	0.5	0.755	
relative Natural Colour (NC)	0.0	0.5	0.755	
lab*trj	0.57	0.0	-0.499	
lab*tc	0.5	0.5	0.755	
lab*nc	0.0	0.5	0.755	

relative Inform. Technology (IT)

olvi3*	0.0	0.25	0.5	(1.0)
cmyn3*	0.75	0.685	0.25	(0.0)
olvi4*	1.0	0.75	1.0	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	41.74	0.72	-23.74	
LAB*Lab	41.74	0.72	-23.74	
LAB*TCa	25.01	23.76	271.75	

relative CIELAB lab*

lab*lab	0.307	0.015	-0.499	
lab*tch	0.25	0.5	0.755	
lab*nch	0.0	0.5	0.755	
relative Natural Colour (NC)	0.0	0.5	0.755	
lab*trj	0.307	0.0	-0.499	
lab*tc	0.25	0.5	0.755	
lab*nc	0.0	0.5	0.755	

relative Inform. Technology (IT)

olvi3*	0.0	0.25	0.5	(1.0)
cmyn3*	0.75	0.685	0.25	(0.0)
olvi4*	1.0	0.75	1.0	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)
LAB*LAB	29.88	0.36	-11.86	
LAB*Lab	29.88	0.36	-11.86	
LAB*TCa	12.5	11.88	271.76	

relative CIELAB lab*

lab*lab	0.153	0.008	-0.249	
lab*tch	0.125	0.25	0.755	
lab*nch	0.0	0.25	0.755	
relative Natural Colour (NC)	0.0	0.25	0.755	
lab*trj	0.153	0.0	-0.249	
lab*tc	0.125	0.25	0.755	
lab*nc	0.0	0.25	0.755	

relative Inform. Technology (IT)

olvi3*	0.0	0.25	0.5	(1.0)
cmyn3*	0.75	0.685	0.25	(0.0)
olvi4*	1.0	0.75	1.0	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)