

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 93/360 = 0.258$

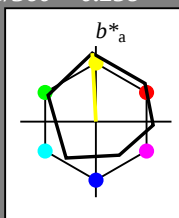
lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 91 91 93

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

$g^*_{H,rel} = 65$

$g^*_{C,rel} = 60$

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 95.46 -39.34 4.69
LAB*LABa 95.46 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*tr 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.12 -0.12 3.4
LAB*LABa 76.12 0.0 0.0
LAB*TCHa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.985 -0.012 0.25
lab*tch 0.875 0.25 0.258
lab*nch 0.0 0.25 0.258
relative Natural Colour (NC)
lab*tr 0.985 -0.022 0.249
lab*trc 0.875 0.25 0.265
lab*ncc 0.0 0.25 0.265

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 93.22 -2.72 49.83
LAB*LABa 93.22 -2.72 49.83
LAB*TCHa 75.00 45.34 92.99

relative CIELAB lab*
lab*lab 0.971 -0.025 0.499
lab*tch 0.75 0.5 0.258
lab*nch 0.0 0.5 0.258
relative Natural Colour (NC)
lab*tr 0.971 -0.046 0.498
lab*trc 0.75 0.5 0.265
lab*ncc 0.0 0.5 0.265

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 56.78 0.13 2.11
LAB*LABa 56.78 0.13 2.11
LAB*TCHa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.736 -0.022 0.249
lab*tch 0.625 0.25 0.265
lab*nch 0.0 0.25 0.265
relative Natural Colour (NC)
lab*tr 0.736 -0.046 0.248
lab*trc 0.625 0.25 0.265
lab*ncc 0.0 0.25 0.265

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 73.89 -2.46 48.55
LAB*LABa 73.89 -2.46 48.55
LAB*TCHa 50.00 45.34 92.99

relative CIELAB lab*
lab*lab 0.957 -0.038 0.749
lab*tch 0.625 0.75 0.258
lab*nch 0.0 0.75 0.258
relative Natural Colour (NC)
lab*tr 0.957 -0.069 0.747
lab*trc 0.625 0.75 0.265
lab*ncc 0.0 0.75 0.265

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 56.78 0.13 2.11
LAB*LABa 56.78 0.13 2.11
LAB*TCHa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*trc 0.5 0.5 0.5 (0.0)
lab*ncc 0.0 0.5 0.5 (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 73.89 -2.46 48.55
LAB*LABa 73.89 -2.46 48.55
LAB*TCHa 50.00 45.34 92.99

relative CIELAB lab*
lab*lab 0.942 -0.051 0.998
lab*tch 0.5 1.0 0.258
lab*nch 0.0 1.0 0.258
relative Natural Colour (NC)
lab*tr 0.942 -0.093 0.995
lab*trc 0.5 1.0 0.265
lab*ncc 0.0 1.0 0.265

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.44 -0.37 0.82
LAB*LABa 37.44 -0.37 0.82
LAB*TCHa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.486 -0.038 0.749
lab*tch 0.375 0.75 0.258
lab*nch 0.0 0.75 0.258
relative Natural Colour (NC)
lab*tr 0.486 -0.069 0.747
lab*trc 0.375 0.75 0.265
lab*ncc 0.0 0.75 0.265

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 56.78 0.13 2.11
LAB*LABa 56.78 0.13 2.11
LAB*TCHa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*trc 0.5 0.5 0.5 (0.0)
lab*ncc 0.0 0.5 0.5 (0.0)

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.44 -0.37 0.82
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LAB*TCHa 25.00 0.01 -

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lab*ncc 0.0 0.75 0.265

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
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cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 73.89 -2.46 48.55
LAB*LABa 73.89 -2.46 48.55
LAB*TCHa 50.00 45.34 92.99

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lab*tr 0.942 -0.093 0.995
lab*trc 0.5 1.0 0.265
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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 56.78 0.13 2.11
LAB*LABa 56.78 0.13 2.11
LAB*TCHa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*trc 0.5 0.5 0.5 (0.0)
lab*ncc 0.0 0.5 0.5 (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 73.89 -2.46 48.55
LAB*LABa 73.89 -2.46 48.55
LAB*TCHa 50.00 45.34 92.99

relative CIELAB lab*
lab*lab 0.942 -0.051 0.998
lab*tch 0.5 1.0 0.258
lab*nch 0.0 1.0 0.258
relative Natural Colour (NC)
lab*tr 0.942 -0.093 0.995
lab*trc 0.5 1.0 0.265
lab*ncc 0.0 1.0 0.265

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.44 -0.37 0.82
LAB*LABa 37.44 -0.37 0.82
LAB*TCHa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.486 -0.038 0.749
lab*tch 0.375 0.75 0.258
lab*nch 0.0 0.75 0.258
relative Natural Colour (NC)
lab*tr 0.486 -0.069 0.747
lab*trc 0.375 0.75 0.265
lab*ncc 0.0 0.75 0.265

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 56.78 0.13 2.11
LAB*LABa 56.78 0.13 2.11
LAB*TCHa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*trc 0.5 0.5 0.5 (0.0)
lab*ncc 0.0 0.5 0.5 (0.0)

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.44 -0.37 0.82
LAB*LABa 37.44 -0.37 0.82
LAB*TCHa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.486 -0.038 0.749
lab*tch 0.375 0.75 0.258
lab*nch 0.0 0.75 0.258
relative Natural Colour (NC)
lab*tr 0.486 -0.069 0.747
lab*trc 0.375 0.75 0.265
lab*ncc 0.0 0.75 0.265

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 73.89 -2.46 48.55
LAB*LABa 73.89 -2.46 48.55
LAB*TCHa 50.00 45.34 92.99

relative CIELAB lab*
lab*lab 0.942 -0.051 0.998
lab*tch 0.5 1.0 0.258
lab*nch 0.0 1.0 0.258
relative Natural Colour (NC)
lab*tr 0.942 -0.093 0.995
lab*trc 0.5 1.0 0.265
lab*ncc 0.0 1.0 0.265

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 56.78 0.13 2.11
LAB*LABa 56.78 0.13 2.11
LAB*TCHa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*trc 0.5 0.5 0.5 (0.0)
lab*ncc 0.0 0.5 0.5 (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 73.89 -2.46 48.55
LAB*LABa 73.89 -2.46 48.55
LAB*TCHa 50.00 45.34 92.99

relative CIELAB lab*
lab*lab 0.942 -0.051 0.998
lab*tch 0.5 1.0 0.258
lab*nch 0.0 1.0 0.258
relative Natural Colour (NC)
lab*tr 0.942 -0.093 0.995
lab*trc 0.5 1.0 0.265
lab*ncc 0.0 1.0 0.265

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 100/360 = 0.277$

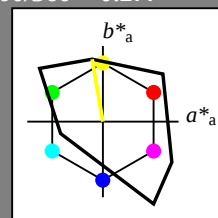
lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 93 84 100

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}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

%Regularity

$g^*_{H,rel} = 26$

$g^*_{C,rel} = 45$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.995 -0.041 0.246
lab*tch 0.875 0.25 0.277
lab*nch 0.0 0.25 0.277
relative Natural Colour (NC)
lab*tr 0.995 -0.056 0.243
lab*trc 0.875 0.25 0.287
lab*ncc 0.0 0.25 0.287

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 54.19 -0.12 3.4
LAB*LABa 54.19 -0.12 3.4
LAB*TCHa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.99 -0.084 0.493
lab*tch 0.75 0.5 0.277
lab*nch 0.0 0.5 0.277
relative Natural Colour (NC)
lab*tr 0.99 -0.114 0.487
lab*trc 0.75 0.5 0.287
lab*ncc 0.0 0.5 0.287

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 93.22 -2.72 49.83
LAB*LABa 93.22 -2.72 49.83
LAB*TCHa 75.00 45.34 92.99

relative CIELAB lab*
lab*lab 0.971 -0.025 0.499
lab*tch 0.75 0.5 0.258
lab*nch 0.0 0.5 0.258
relative Natural Colour (NC)
lab*tr 0.971 -0.046 0.498
lab*trc 0.75 0.5 0.265
lab*ncc 0.0 0.5 0.265

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 56.78 0.13 2.11
LAB*LABa 56.78 0.13 2.11
LAB*TCHa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.5 0.5 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.5 0.5 (0.0)
lab*trc 0.5 0.5 0.5 (0.0)
lab*ncc 0.0 0.5 0.5 (0.0)

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 151/360 = 0.42$

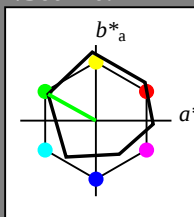
$lab \cdot tch$ and $lab \cdot nch$

D50: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 94$

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
olv4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	95.46	-39.49	4.69	
LAB*LAB	95.46	0.0	0.0	
LAB*LAB	99.99	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.25	0.0	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	84.32	-16.03	12.7	
LAB*LAB	84.32	-15.78	8.74	
LAB*LAB	87.5	18.06	15.103	

relative Inform. Technology (IT)

olv3*	0.5	1.0	0.5	(1.0)
olv3*	0.5	0.0	0.5	(0.0)
olv4*	0.5	1.0	0.5	1.0
olv4*	0.5	0.0	0.5	0.0
olv4*	0.5	0.0	0.5	0.0
standard and adapted CIELAB				
LAB*LAB	73.18	-31.58	20.7	
LAB*LAB	73.18	-31.58	17.49	
LAB*LAB	75.0	36.1	15.103	

relative Inform. Technology (IT)

olv3*	0.25	1.0	0.25	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.25	1.0	0.25	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.25	0.0	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	62.04	-47.31	28.7	
LAB*LAB	62.04	-47.31	26.23	
LAB*LAB	62.5	54.16	15.103	

relative Inform. Technology (IT)

olv3*	0.0	1.0	0.0	(1.0)
olv3*	0.0	0.0	1.0	(0.0)
olv4*	0.0	1.0	0.0	1.0
olv4*	0.0	0.0	1.0	0.0
olv4*	0.0	0.0	1.0	0.0
standard and adapted CIELAB				
LAB*LAB	50.9	-62.95	36.7	
LAB*LAB	50.9	-63.16	34.97	
LAB*LAB	50.0	72.21	15.103	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	0.5	0.5	0.5	1.0
olv4*	0.5	0.5	0.5	0.0
olv4*	0.5	0.5	0.5	0.0
standard and adapted CIELAB				
LAB*LAB	42.7	-47.04	27.41	
LAB*LAB	42.7	-47.04	27.41	
LAB*LAB	37.51	54.16	15.103	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	0.25	0.25	0.25	1.0
olv4*	0.25	0.25	0.25	0.0
olv4*	0.25	0.25	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	37.51	-47.04	27.41	
LAB*LAB	37.51	-47.04	27.41	
LAB*LAB	37.51	54.16	15.103	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	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	23.87	0.0	0.0	
LAB*LAB	23.87	0.0	0.0	
LAB*LAB	25.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	0.5	0.5	0.5	1.0
olv4*	0.5	0.5	0.5	0.0
olv4*	0.5	0.5	0.5	0.0
standard and adapted CIELAB				
LAB*LAB	41.42	-20.92	17.6	
LAB*LAB	41.42	-20.92	17.6	
LAB*LAB	41.42	-20.92	17.6	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	0.25	0.25	0.25	1.0
olv4*	0.25	0.25	0.25	0.0
olv4*	0.25	0.25	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	20.71	-20.92	17.6	
LAB*LAB	20.71	-20.92	17.6	
LAB*LAB	20.71	-20.92	17.6	

relative Inform. Technology (IT)

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

ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

$g^*_{H,rel} = 65$

$g^*_{C,rel} = 60$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 140/360 = 0.389$

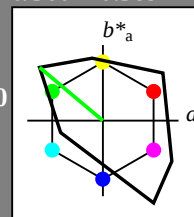
$lab \cdot tch$ and $lab \cdot nch$

D50: hue L

LCH*Ma: 83 109 140

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 156$

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	99.99	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	1.0	0.75	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.75	1.0	0.75	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.25	0.0	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	92.25	-20.92	17.6	
LAB*LAB	92.25	-20.92	17.6	
LAB*LAB	87.5	27.34	139.94	

relative Inform. Technology (IT)

olv3*	0.5	1.0	0.5	(1.0)
olv3*	0.5	0.0	0.5	(0.0)
olv4*	0.5	1.0	0.5	1.0
olv4*	0.5	0.0	0.5	0.0
olv4*	0.5	0.0	0.5	0.0
standard and adapted CIELAB				
LAB*LAB	71.57	0.0	0.0	
LAB*LAB	71.57	0.0	0.0	
LAB*LAB	75.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.25	1.0	0.25	(1.0)
olv3*	0.25	0.0	0.25	(0.0)
olv4*	0.25	1.0	0.25	1.0
olv4*	0.25	0.0	0.25	0.0
olv4*	0.25	0.0	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	62.04	-47.31	28.7	
LAB*LAB	62.04	-47.31	26.23	
LAB*LAB	62.5	54.16	15.103	

relative Inform. Technology (IT)

olv3*	0.0	1.0	0.0	(1.0)
olv3*	0.0	0.0	1.0	(0.0)
olv4*	0.0	1.0	0.0	1.0
olv4*	0.0	0.0	1.0	0.0
olv4*	0.0	0.0	1.0	0.0
standard and adapted CIELAB				
LAB*LAB	50.9	-62.95	36.7	
LAB*LAB	50.9	-63.16	34.97	
LAB*LAB	50.0	72.21	15.103	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	0.5	0.5	0.5	1.0
olv4*	0.5	0.5	0.5	0.0
olv4*	0.5	0.5	0.5	0.0
standard and adapted CIELAB				
LAB*LAB	42.7	-47.04	27.41	
LAB*LAB	42.7	-47.04	27.41	
LAB*LAB	37.51	54.16	15.103	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	0.25	0.25	0.25	1.0
olv4*	0.25	0.25	0.25	0.0
olv4*	0.25	0.25	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	37.51	-47.04	27.41	
LAB*LAB	37.51	-47.04	27.41	
LAB*LAB	37.51	54.16	15.103	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	0.0	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	23.87	0.0	0.0	
LAB*LAB	23.87	0.0	0.0	
LAB*LAB	25.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	0.5	0.5	0.5	1.0
olv4*	0.5	0.5	0.5	0.0
olv4*	0.5	0.5	0.5	0.0
standard and adapted CIELAB				
LAB*LAB	41.42	-20.92	17.6	
LAB*LAB	41.42	-20.92	17.6	
LAB*LAB	41.42	-20.92	17.6	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	0.25	0.25	0.25	1.0
olv4*	0.25	0.25	0.25	0.0
olv4*	0.25	0.25	0.25	0.0
standard and adapted CIELAB				
LAB*LAB	20.71	-20.92	17.6	
LAB*LAB	20.71	-20.92	17.6	
LAB*LAB	20.71	-20.92	17.6	

relative Inform. Technology (IT)

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

chromaticness c^*

$n^* = 1.0$

PE500-7, 5 step scales for constant CIELAB hue 151/360 = 0.42 (left)

5 step scales for constant CIELAB hue 140/360 = 0.389 (right)

BAM-test chart PE50; Colorimetric systems ORS18 & TLS00

input: $olv^* \text{ setrgb color}$

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 231/360 = 0.641$

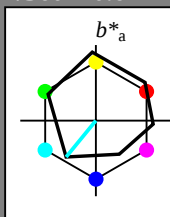
lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 57 62 231

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

$g^*_{H,rel} = 65$

$g^*_{C,rel} = 60$

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 95.46 -39.49 4.69
LAB*LAB 95.46 0.0 0.0
LAB*LAB 95.46 0.0 0.0
LAB*LAB 95.46 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 85.84 -10.09 -7.96
LAB*LAB 85.84 -9.82 -12.01
LAB*LAB 85.84 15.53 230.72

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 76.22 -19.8 -20.63
LAB*LAB 76.22 -19.66 -24.04
LAB*LAB 76.22 31.07 230.72

relative Inform. Technology (IT)
olv3* 0.25 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.25 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.6 -29.5 -33.3
LAB*LAB 66.6 -29.5 -36.07
LAB*LAB 66.6 46.61 230.72

relative Inform. Technology (IT)
olv3* 0.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.99 -39.34 -48.1
LAB*LAB 56.99 -39.34 -48.09
LAB*LAB 56.99 62.15 230.72

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (0.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olv4* 0.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 47.22 -49.61 -45.96
LAB*LAB 47.22 -49.61 -48.09
LAB*LAB 47.22 50.0 230.72

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.25 (0.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olv4* 0.0 0.25 0.25 (0.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.46 -50.0 -42.46
LAB*LAB 42.46 -50.0 -42.46
LAB*LAB 42.46 50.0 230.72

relative Inform. Technology (IT)
olv3* 0.0 0.125 0.125 (0.0)
cmyn3* 0.0 0.125 0.125 (0.0)
olv4* 0.0 0.125 0.125 (0.0)
cmyn4* 0.0 0.125 0.125 (0.0)
standard and adapted CIELAB
LAB*LAB 37.5 -50.0 -37.5
LAB*LAB 37.5 -50.0 -37.5
LAB*LAB 37.5 50.0 230.72

relative Inform. Technology (IT)
olv3* 0.0 0.0625 0.0625 (0.0)
cmyn3* 0.0 0.0625 0.0625 (0.0)
olv4* 0.0 0.0625 0.0625 (0.0)
cmyn4* 0.0 0.0625 0.0625 (0.0)
standard and adapted CIELAB
LAB*LAB 31.25 -50.0 -31.25
LAB*LAB 31.25 -50.0 -31.25
LAB*LAB 31.25 50.0 230.72

relative Inform. Technology (IT)
olv3* 0.0 0.03125 0.03125 (0.0)
cmyn3* 0.0 0.03125 0.03125 (0.0)
olv4* 0.0 0.03125 0.03125 (0.0)
cmyn4* 0.0 0.03125 0.03125 (0.0)
standard and adapted CIELAB
LAB*LAB 25.0 -50.0 -25.0
LAB*LAB 25.0 -50.0 -25.0
LAB*LAB 25.0 50.0 230.72

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 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 37.44 -19.26 -16.82
LAB*LAB 37.44 -19.26 -16.82
LAB*LAB 37.44 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.375 0.375 0.375 (1.0)
cmyn3* 0.625 0.625 0.625 (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 42.16 -19.26 -16.82
LAB*LAB 42.16 -19.26 -16.82
LAB*LAB 42.16 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 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 47.16 -19.26 -16.82
LAB*LAB 47.16 -19.26 -16.82
LAB*LAB 47.16 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 (0.5)
cmyn4* 0.0 0.0 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 56.99 -19.26 -16.82
LAB*LAB 56.99 -19.26 -16.82
LAB*LAB 56.99 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (0.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olv4* 0.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 47.22 -49.61 -45.96
LAB*LAB 47.22 -49.61 -48.09
LAB*LAB 47.22 50.0 230.72

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.25 (0.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olv4* 0.0 0.25 0.25 (0.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.46 -50.0 -42.46
LAB*LAB 42.46 -50.0 -42.46
LAB*LAB 42.46 50.0 230.72

relative Inform. Technology (IT)
olv3* 0.0 0.125 0.125 (0.0)
cmyn3* 0.0 0.125 0.125 (0.0)
olv4* 0.0 0.125 0.125 (0.0)
cmyn4* 0.0 0.125 0.125 (0.0)
standard and adapted CIELAB
LAB*LAB 37.5 -50.0 -37.5
LAB*LAB 37.5 -50.0 -37.5
LAB*LAB 37.5 50.0 230.72

relative Inform. Technology (IT)
olv3* 0.0 0.0625 0.0625 (0.0)
cmyn3* 0.0 0.0625 0.0625 (0.0)
olv4* 0.0 0.0625 0.0625 (0.0)
cmyn4* 0.0 0.0625 0.0625 (0.0)
standard and adapted CIELAB
LAB*LAB 31.25 -50.0 -31.25
LAB*LAB 31.25 -50.0 -31.25
LAB*LAB 31.25 50.0 230.72

relative Inform. Technology (IT)
olv3* 0.0 0.03125 0.03125 (0.0)
cmyn3* 0.0 0.03125 0.03125 (0.0)
olv4* 0.0 0.03125 0.03125 (0.0)
cmyn4* 0.0 0.03125 0.03125 (0.0)
standard and adapted CIELAB
LAB*LAB 25.0 -50.0 -25.0
LAB*LAB 25.0 -50.0 -25.0
LAB*LAB 25.0 50.0 230.72

relative Inform. Technology (IT)
olv3* 0.0 0.015625 0.015625 (0.0)
cmyn3* 0.0 0.015625 0.015625 (0.0)
olv4* 0.0 0.015625 0.015625 (0.0)
cmyn4* 0.0 0.015625 0.015625 (0.0)
standard and adapted CIELAB
LAB*LAB 18.75 -50.0 -18.75
LAB*LAB 18.75 -50.0 -18.75
LAB*LAB 18.75 50.0 230.72

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 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0

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 0.75 0.75 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 27.82 -9.82 -11.82
LAB*LAB 27.82 -9.82 -11.82
LAB*LAB 27.82 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 1.0 0.5 0.5 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 37.5 -15.53 230.72
LAB*LAB 37.5 -15.53 230.72
LAB*LAB 37.5 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.25 0.25 (0.0)
olv4* 1.0 0.25 0.25 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 47.16 -15.53 230.72
LAB*LAB 47.16 -15.53 230.72
LAB*LAB 47.16 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.125 0.125 (0.0)
olv4* 1.0 0.125 0.125 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 56.99 -15.53 230.72
LAB*LAB 56.99 -15.53 230.72
LAB*LAB 56.99 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0625 0.0625 (0.0)
olv4* 1.0 0.0625 0.0625 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 66.6 -15.53 230.72
LAB*LAB 66.6 -15.53 230.72
LAB*LAB 66.6 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.03125 0.03125 (0.0)
olv4* 1.0 0.03125 0.03125 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 76.22 -15.53 230.72
LAB*LAB 76.22 -15.53 230.72
LAB*LAB 76.22 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.015625 0.015625 (0.0)
olv4* 1.0 0.015625 0.015625 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 85.84 -15.53 230.72
LAB*LAB 85.84 -15.53 230.72
LAB*LAB 85.84 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0078125 0.0078125 (0.0)
olv4* 1.0 0.0078125 0.0078125 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 95.46 -15.53 230.72
LAB*LAB 95.46 -15.53 230.72
LAB*LAB 95.46 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.00390625 0.00390625 (0.0)
olv4* 1.0 0.00390625 0.00390625 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 95.46 -15.53 230.72
LAB*LAB 95.46 -15.53 230.72
LAB*LAB 95.46 0.0 0.0

PE500-7, 5 step scales for constant CIELAB hue 231/360 = 0.641 (left)

5 step scales for constant CIELAB hue 196/360 = 0.544 (right)

BAM-test chart PE50; Colorimetric systems ORS18 & TLS00

D50: 2 coordinate data of 5 step colour scales for 10 hues

input: $olv^* setrgbcolor$

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 356/360 = 0.99$

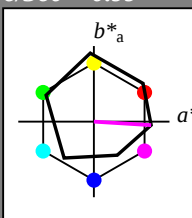
lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 50 76 356

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

$g^*_{H,rel} = 65$

$g^*_{C,rel} = 60$

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 95.46 -0.39 4.69
LAB*LABa 95.46 0.0 0.0
LAB*TCHa 99.99 0.01 -

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*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)
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 76.12 -0.12 3.4
LAB*LABa 76.12 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.853 0.249 -0.014
lab*ch 0.875 0.25 0.99
lab*nch 0.0 0.25 0.99
relative Natural Colour (NC)
lab*trj 0.853 0.232 -0.092
lab*trc 0.875 0.25 0.939
lab*ncc 0.0 0.25 0.939

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 76.12 -0.12 3.4
LAB*LABa 76.12 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.853 0.249 -0.014
lab*ch 0.875 0.25 0.99
lab*nch 0.0 0.25 0.99
relative Natural Colour (NC)
lab*trj 0.853 0.232 -0.092
lab*trc 0.875 0.25 0.939
lab*ncc 0.0 0.25 0.939

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 56.78 0.13 2.11
LAB*LABa 56.78 0.0 0.0
LAB*TCHa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.613 0.25 -0.014
lab*ch 0.625 0.25 0.99
lab*nch 0.25 0.25 0.99
relative Natural Colour (NC)
lab*trj 0.613 0.232 -0.092
lab*trc 0.625 0.25 0.939
lab*ncc 0.25 0.25 0.939

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 37.48 0.62 0.82
LAB*LABa 37.48 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.333 0.25 -0.014
lab*ch 0.375 0.25 0.99
lab*nch 0.75 0.25 0.99
relative Natural Colour (NC)
lab*trj 0.333 0.232 -0.092
lab*trc 0.375 0.25 0.939
lab*ncc 0.75 0.25 0.939

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 37.48 0.62 0.82
LAB*LABa 37.48 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.333 0.25 -0.014
lab*ch 0.375 0.25 0.99
lab*nch 0.75 0.25 0.99
relative Natural Colour (NC)
lab*trj 0.333 0.232 -0.092
lab*trc 0.375 0.25 0.939
lab*ncc 0.75 0.25 0.939

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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.0 0.01 -

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*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)
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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.0 0.01 -

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*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)
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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.0 0.01 -

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*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)
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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.0 0.01 -

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*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

%Regularity

$g^*_{H,rel} = 65$

$g^*_{C,rel} = 60$

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 95.46 -0.39 4.69
LAB*LABa 95.46 0.0 0.0
LAB*TCHa 99.99 0.01 -

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*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)
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 76.12 -0.12 3.4
LAB*LABa 76.12 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.853 0.249 -0.014
lab*ch 0.875 0.25 0.99
lab*nch 0.0 0.25 0.99
relative Natural Colour (NC)
lab*trj 0.853 0.232 -0.092
lab*trc 0.875 0.25 0.939
lab*ncc 0.0 0.25 0.939

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 76.12 -0.12 3.4
LAB*LABa 76.12 0.0 0.0
LAB*TCHa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.853 0.249 -0.014
lab*ch 0.875 0.25 0.99
lab*nch 0.0 0.25 0.99
relative Natural Colour (NC)
lab*trj 0.853 0.232 -0.092
lab*trc 0.875 0.25 0.939
lab*ncc 0.0 0.25 0.939

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 56.78 0.13 2.11
LAB*LABa 56.78 0.0 0.0
LAB*TCHa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.613 0.25 -0.014
lab*ch 0.625 0.25 0.99
lab*nch 0.25 0.25 0.99
relative Natural Colour (NC)
lab*trj 0.613 0.232 -0.092
lab*trc 0.625 0.25 0.939
lab*ncc 0.25 0.25 0.939

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 37.48 0.62 0.82
LAB*LABa 37.48 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.333 0.25 -0.014
lab*ch 0.375 0.25 0.99
lab*nch 0.75 0.25 0.99
relative Natural Colour (NC)
lab*trj 0.333 0.232 -0.092
lab*trc 0.375 0.25 0.939
lab*ncc 0.75 0.25 0.939

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 37.48 0.62 0.82
LAB*LABa 37.48 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.333 0.25 -0.014
lab*ch 0.375 0.25 0.99
lab*nch 0.75 0.25 0.99
relative Natural Colour (NC)
lab*trj 0.333 0.232 -0.092
lab*trc 0.375 0.25 0.939
lab*ncc 0.75 0.25 0.939

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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.0 0.01 -

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*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)
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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.0 0.01 -

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*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)
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 18.1 0.0 0.0
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.0 0.01 -

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*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 330/360 = 0.915$

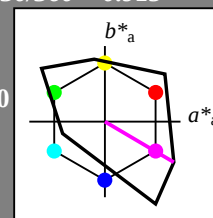
lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 59 106 330

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

%Regularity

$g^*_{H,rel} = 26$

$g^*_{C,rel} = 45$

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*ch 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* 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*ch 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)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.0 0.01 -

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*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* 0.75 0.75 0.75 (1.0)
cmv3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmv4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.0 0.01 -

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*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 (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 54.19 0.0 0.0
LAB*LABa 54.19 0.0 0.0
LAB*TCHa 50.0 0.01 -

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*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* 0.5 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 54.19 0.0 0.0
LAB*LABa 54.19 0.0 0.0
LAB*TCHa 50.0 0.01 -

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*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 (1.0)
cmv3* 0.75 0.75 0.75 (0.0)
olv4* 1.

A diagram of a chromosome with a centromere. The chromosome is divided into three segments: a blue segment on the left labeled 'C', a pink segment in the middle labeled 'M', and a yellow segment on the right labeled 'Y'. The centromere is located between the pink and yellow segments.

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 167/360 = 0.463$

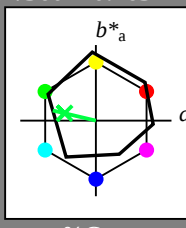
lab^*tch and lab^*nch

D50: hue G

LCH*Ma: 52 59 167

olv*Ma: 0.0 1.0 0.26

triangle lightness t^*



% Gamut

$u^*_{rel} = 94$

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.0	0.0	0.0	(0.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
olv8*	0.0	0.0	0.0	(0.0)
olv9*	0.0	0.0	0.0	(0.0)
olv10*	0.0	0.0	0.0	(0.0)
olv11*	0.0	0.0	0.0	(0.0)
olv12*	0.0	0.0	0.0	(0.0)
olv13*	0.0	0.0	0.0	(0.0)
olv14*	0.0	0.0	0.0	(0.0)
olv15*	0.0	0.0	0.0	(0.0)
olv16*	0.0	0.0	0.0	(0.0)
olv17*	0.0	0.0	0.0	(0.0)
olv18*	0.0	0.0	0.0	(0.0)
olv19*	0.0	0.0	0.0	(0.0)
olv20*	0.0	0.0	0.0	(0.0)
olv21*	0.0	0.0	0.0	(0.0)
olv22*	0.0	0.0	0.0	(0.0)
olv23*	0.0	0.0	0.0	(0.0)
olv24*	0.0	0.0	0.0	(0.0)
olv25*	0.0	0.0	0.0	(0.0)
olv26*	0.0	0.0	0.0	(0.0)
olv27*	0.0	0.0	0.0	(0.0)
olv28*	0.0	0.0	0.0	(0.0)
olv29*	0.0	0.0	0.0	(0.0)
olv30*	0.0	0.0	0.0	(0.0)
olv31*	0.0	0.0	0.0	(0.0)
olv32*	0.0	0.0	0.0	(0.0)
olv33*	0.0	0.0	0.0	(0.0)
olv34*	0.0	0.0	0.0	(0.0)
olv35*	0.0	0.0	0.0	(0.0)
olv36*	0.0	0.0	0.0	(0.0)
olv37*	0.0	0.0	0.0	(0.0)
olv38*	0.0	0.0	0.0	(0.0)
olv39*	0.0	0.0	0.0	(0.0)
olv40*	0.0	0.0	0.0	(0.0)
olv41*	0.0	0.0	0.0	(0.0)
olv42*	0.0	0.0	0.0	(0.0)
olv43*	0.0	0.0	0.0	(0.0)
olv44*	0.0	0.0	0.0	(0.0)
olv45*	0.0	0.0	0.0	(0.0)
olv46*	0.0	0.0	0.0	(0.0)
olv47*	0.0	0.0	0.0	(0.0)
olv48*	0.0	0.0	0.0	(0.0)
olv49*	0.0	0.0	0.0	(0.0)
olv50*	0.0	0.0	0.0	(0.0)
olv51*	0.0	0.0	0.0	(0.0)
olv52*	0.0	0.0	0.0	(0.0)
olv53*	0.0	0.0	0.0	(0.0)
olv54*	0.0	0.0	0.0	(0.0)
olv55*	0.0	0.0	0.0	(0.0)
olv56*	0.0	0.0	0.0	(0.0)
olv57*	0.0	0.0	0.0	(0.0)
olv58*	0.0	0.0	0.0	(0.0)
olv59*	0.0	0.0	0.0	(0.0)
olv60*	0.0	0.0	0.0	(0.0)
olv61*	0.0	0.0	0.0	(0.0)
olv62*	0.0	0.0	0.0	(0.0)
olv63*	0.0	0.0	0.0	(0.0)
olv64*	0.0	0.0	0.0	(0.0)
olv65*	0.0	0.0	0.0	(0.0)
olv66*	0.0	0.0	0.0	(0.0)
olv67*	0.0	0.0	0.0	(0.0)
olv68*	0.0	0.0	0.0	(0.0)
olv69*	0.0	0.0	0.0	(0.0)
olv70*	0.0	0.0	0.0	(0.0)
olv71*	0.0	0.0	0.0	(0.0)
olv72*	0.0	0.0	0.0	(0.0)
olv73*	0.0	0.0	0.0	(0.0)
olv74*	0.0	0.0	0.0	(0.0)
olv75*	0.0	0.0	0.0	(0.0)
olv76*	0.0	0.0	0.0	(0.0)
olv77*	0.0	0.0	0.0	(0.0)
olv78*	0.0	0.0	0.0	(0.0)
olv79*	0.0	0.0	0.0	(0.0)
olv80*	0.0	0.0	0.0	(0.0)
olv81*	0.0	0.0	0.0	(0.0)
olv82*	0.0	0.0	0.0	(0.0)
olv83*	0.0	0.0	0.0	(0.0)
olv84*	0.0	0.0	0.0	(0.0)
olv85*	0.0	0.0	0.0	(0.0)
olv86*	0.0	0.0	0.0	(0.0)
olv87*	0.0	0.0	0.0	(0.0)
olv88*	0.0	0.0	0.0	(0.0)
olv89*	0.0	0.0	0.0	(0.0)
olv90*	0.0	0.0	0.0	(0.0)
olv91*	0.0	0.0	0.0	(0.0)
olv92*	0.0	0.0	0.0	(0.0)
olv93*	0.0	0.0	0.0	(0.0)
olv94*	0.0	0.0	0.0	(0.0)
olv95*	0.0	0.0	0.0	(0.0)
olv96*	0.0	0.0	0.0	(0.0)
olv97*	0.0	0.0	0.0	(0.0)
olv98*	0.0	0.0	0.0	(0.0)
olv99*	0.0	0.0	0.0	(0.0)
olv100*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv4*	0.25	0.25	0.25	(0.0)
olv5*	0.0	0.0	0.0	(0.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	0.0	0.0	0.0	(0.0)
olv8*	0.0	0.0	0.0	(0.0)
olv9*	0.0	0.0	0.0	(0.0)
olv10*	0.0	0.0	0.0	(0.0)
olv11*	0.0	0.0	0.0	(0.0)
olv12*	0.0	0.0	0.0	(0.0)
olv13*	0.0	0.0	0.0	(0.0)
olv14*	0.0	0.0	0.0	(0.0)
olv15*	0.0	0.0	0.0	(0.0)
olv16*	0.0	0.0	0.0	(0.0)
olv17*	0.0	0.0	0.0	(0.0)
olv18*	0.0	0.0	0.0	(0.0)
olv19*	0.0	0.0	0.0	(0.0)
olv20*	0.0	0.0	0.0	(0.0)
olv21*	0.0	0.0	0.0	(0.0)
olv22*	0.0	0.0	0.0	(0.0)
olv23*	0.0	0.0	0.0	(0.0)
olv24*	0.0	0.0	0.0	(0.0)
olv25*	0.0	0.0	0.0	(0.0)
olv26*	0.0	0.0	0.0	(0.0)
olv27*	0.0	0.0	0.0	(0.0)
olv28*	0.0	0.0	0.0	(0.0)
olv29*	0.0	0.0	0.0	(0.0)
olv30*	0.0	0.0	0.0	(0.0)
olv31*	0.0	0.0	0.0	(0.0)
olv32*	0.0	0.0	0.0	(0.0)
olv33*	0.0	0.0	0.0	(0.0)
olv34*	0.0	0.0	0.0	(0.0)
olv35*	0.0	0.0	0.0	(0.0)
olv36*	0.0	0.0	0.0	(0.0)
olv37*	0.0	0.0	0.0	(0.0)
olv38*	0.0	0.0	0.0	(0.0)
olv39*	0.0	0.0	0.0	(0.0)
olv40*	0.0	0.0	0.0	(0.0)
olv41*	0.0	0.0	0.0	(0.0)
olv42*	0.0	0.0	0.0	(0.0)
olv43*	0.0	0.0	0.0	(0.0)
olv44*	0.0	0.0	0.0	(0.0)
olv45*	0.0	0.0	0.0	(0.0)
olv46*	0.0	0.0	0.0	(0.0)
olv47*	0.0	0.0	0.0	(0.0)
olv48*	0.0	0.0	0.0	(0.0)
olv49*	0.0	0.0	0.0	(0.0)
olv50*	0.0	0.0	0.0	(0.0)
olv51*	0.0	0.0	0.0	(0.0)
olv52*	0.0	0.0	0.0	(0.0)
olv53*	0.0	0.0	0.0	(0.0)
olv54*	0.0	0.0	0.0	(0.0)
olv55*	0.0	0.0	0.0	(0.0)
olv56*	0.0	0.0	0.0	(0.0)
olv57*	0.0	0.0	0.0	(0.0)
olv58*	0.0	0.0	0.0	(0.0)
olv59*	0.0	0.0	0.0	(0.0)
olv60*	0.0	0.0	0.0	(0.0)
olv61*	0.0	0.0	0.0	(0.0)
olv62*	0.0	0.0	0.0	(0.0)
olv63*	0.0	0.0	0.0	(0.0)
olv64*	0.0	0.0	0.0	(0.0)
olv65*	0.0	0.0	0.0	(0.0)
olv66*	0.0	0.0	0.0	(0.0)
olv67*	0.0	0.0	0.0	(0.0)

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 263/360 = 0.731$

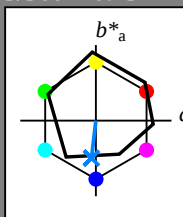
lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 42 47 263

olv*Ma: 0.0 0.52 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

%Regularity

$g^*_{H,rel} = 65$

$g^*_{C,rel} = 60$

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 95.46 -0.39 4.69
LAB*LABa 95.46 0.0 0.0
LAB*TCHa 99.99 0.01

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.12 -0.12 3.4
LAB*LABa 76.12 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 (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 56.78 0.0 2.11
LAB*LABa 56.78 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 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.48 -0.67 0.82
LAB*LABa 37.44 0.0 0.0
LAB*TCHa 25.0 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 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.46
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.01

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.46
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.01

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

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 82.06 -1.56 -7.76
LAB*LABa 82.06 -1.56 -11.57
LAB*TCHa 97.5 11.66 263.32

relative CIELAB lab*
lab*lab 0.827 -0.028 -0.247
lab*tch 0.875 0.25 0.731
lab*nch 0.0 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.827 0.0 -0.249
lab*tce 0.875 0.25 0.731
lab*nce 0.0 0.25 0.731

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 62.72 -1.29 -9.05
LAB*LABa 62.72 -1.34 -11.57
LAB*TCHa 62.5 11.66 263.34

relative CIELAB lab*
lab*lab 0.5 0.25 0.731
lab*tch 0.625 0.25 0.731
lab*nch 0.25 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.577 0.0 -0.249
lab*tce 0.625 0.25 0.731
lab*nce 0.25 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 43.38 -1.02 10.34
LAB*LABa 43.38 -1.34 -11.57
LAB*TCHa 37.5 11.66 263.34

relative CIELAB lab*
lab*lab 0.377 -0.028 -0.247
lab*tch 0.375 0.25 0.731
lab*nch 0.25 0.25 0.731
relative Natural Colour (NC)
lab*trj 0.327 0.0 -0.249
lab*tce 0.375 0.25 0.731
lab*nce 0.25 0.25 0.731

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 29.99 -2.19 -12.81
LAB*LABa 29.99 -2.69 -23.15
LAB*TCHa 25.01 23.31 263.35

relative CIELAB lab*
lab*lab 0.154 -0.057 -0.496
lab*tch 0.25 0.5 0.732
lab*nch 0.0 0.75 0.732
relative Natural Colour (NC)
lab*trj 0.154 0.0 -0.499
lab*tce 0.25 0.5 0.732
lab*nce 0.0 0.75 0.732

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 24.04 -0.75 -11.63
LAB*LABa 24.04 -1.34 -11.57
LAB*TCHa 12.5 11.66 263.35

relative CIELAB lab*
lab*lab 0.077 -0.028 -0.247
lab*tch 0.125 0.25 0.732
lab*nch 0.0 0.25 0.732
relative Natural Colour (NC)
lab*trj 0.077 0.0 -0.249
lab*tce 0.125 0.25 0.732
lab*nce 0.0 0.25 0.732

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.46
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.01

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

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 68.67 -2.73 -20.23
LAB*LABa 68.67 -2.73 -23.15
LAB*TCHa 75.0 23.32 263.33

relative CIELAB lab*
lab*lab 0.654 -0.057 -0.496
lab*tch 0.75 0.5 0.731
lab*nch 0.0 0.5 0.731
relative Natural Colour (NC)
lab*trj 0.654 0.0 -0.499
lab*tce 0.75 0.5 0.731
lab*nce 0.0 0.5 0.731

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 49.33 -2.46 -21.53
LAB*LABa 49.33 -2.7 -23.15
LAB*TCHa 50.0 23.32 263.34

relative CIELAB lab*
lab*lab 0.481 -0.086 -0.744
lab*tch 0.625 0.75 0.731
lab*nch 0.0 0.75 0.731
relative Natural Colour (NC)
lab*trj 0.481 0.0 -0.749
lab*tce 0.625 0.75 0.731
lab*nce 0.0 0.75 0.731

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 0.483 0.0 (0.0)
olv4* 0.0 0.517 1.0 (1.0)
cmyn4* 0.0 0.517 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 41.88 -5.06 -45.18
LAB*LABa 41.88 -5.4 -46.3
LAB*TCHa 50.0 46.63 263.34

relative CIELAB lab*
lab*lab 0.368 -0.115 -0.992
lab*tch 0.5 1.0 0.731
lab*nch 0.0 1.0 0.731
relative Natural Colour (NC)
lab*trj 0.368 0.0 -0.999
lab*tce 0.5 1.0 0.731
lab*nce 0.0 1.0 0.731

relative Inform. Technology (IT)
olv3* 0.0 0.612 0.25 (0.0)
cmyn3* 0.0 0.612 0.25 (0.0)
olv4* 0.25 0.638 1.0 (1.0)
cmyn4* 0.0 0.638 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 35.54 -3.62 -34.0
LAB*LABa 35.54 -4.04 -34.73
LAB*TCHa 37.51 34.97 263.34

relative CIELAB lab*
lab*lab 0.231 -0.086 -0.744
lab*tch 0.375 0.75 0.732
lab*nch 0.0 0.75 0.732
relative Natural Colour (NC)
lab*trj 0.231 0.0 -0.749
lab*tce 0.375 0.75 0.732
lab*nce 0.0 0.75 0.732

relative Inform. Technology (IT)
olv3* 0.0 0.258 0.5 (0.0)
cmyn3* 1.0 0.742 0.5 (0.0)
olv4* 0.5 0.758 1.0 (1.0)
cmyn4* 0.0 0.758 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 29.99 -2.19 -12.81
LAB*LABa 29.99 -2.69 -23.15
LAB*TCHa 25.01 23.31 263.35

relative CIELAB lab*
lab*lab 0.154 -0.057 -0.496
lab*tch 0.25 0.5 0.732
lab*nch 0.0 0.75 0.732
relative Natural Colour (NC)
lab*trj 0.154 0.0 -0.499
lab*tce 0.25 0.5 0.732
lab*nce 0.0 0.75 0.732

relative Inform. Technology (IT)
olv3* 0.0 0.258 0.5 (0.0)
cmyn3* 1.0 0.742 0.5 (0.0)
olv4* 0.5 0.758 1.0 (1.0)
cmyn4* 0.0 0.758 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 29.99 -2.19 -12.81
LAB*LABa 29.99 -2.69 -23.15
LAB*TCHa 25.01 23.31 263.35

relative CIELAB lab*
lab*lab 0.154 -0.057 -0.496
lab*tch 0.25 0.5 0.732
lab*nch 0.0 0.75 0.732
relative Natural Colour (NC)
lab*trj 0.154 0.0 -0.499
lab*tce 0.25 0.5 0.732
lab*nce 0.0 0.75 0.732

relative Inform. Technology (IT)
olv3* 0.25 0.638 1.0 (1.0)
cmyn3* 0.25 0.638 1.0 (1.0)
olv4* 0.25 0.638 1.0 (1.0)
cmyn4* 0.0 0.638 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 55.27 -3.9 -32.71
LAB*LABa 55.27 -4.05 -34.73
LAB*TCHa 62.5 34.97 263.33

relative CIELAB lab*
lab*lab 0.481 -0.086 -0.744
lab*tch 0.625 0.75 0.731
lab*nch 0.0 0.75 0.731
relative Natural Colour (NC)
lab*trj 0.481 0.0 -0.749
lab*tce 0.625 0.75 0.731
lab*nce 0.0 0.75 0.731

relative Inform. Technology (IT)
olv3* 0.0 0.388 0.75 (1.0)
cmyn3* 0.75 0.483 0.25 (0.0)
olv4* 0.0 0.517 1.0 (1.0)
cmyn4* 0.0 0.517 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 41.88 -5.06 -45.18
LAB*LABa 41.88 -5.4 -46.3
LAB*TCHa 50.0 46.63 263.34

relative CIELAB lab*
lab*lab 0.368 -0.115 -0.992
lab*tch 0.5 1.0 0.731
lab*nch 0.0 1.0 0.731
relative Natural Colour (NC)
lab*trj 0.368 0.0 -0.999
lab*tce 0.5 1.0 0.731
lab*nce 0.0 1.0 0.731

relative Inform. Technology (IT)
olv3* 0.0 0.612 0.25 (0.0)
cmyn3* 0.0 0.612 0.25 (0.0)
olv4* 0.25 0.638 1.0 (1.0)
cmyn4* 0.0 0.638 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 35.54 -3.62 -34.0
LAB*LABa 35.54 -4.04 -34.73
LAB*TCHa 37.51 34.97 263.34

relative CIELAB lab*
lab*lab 0.231 -0.086 -0.744
lab*tch 0.375 0.75 0.732
lab*nch 0.0 0.75 0.732
relative Natural Colour (NC)
lab*trj 0.231 0.0 -0.749
lab*tce 0.375 0.75 0.732
lab*nce 0.0 0.75 0.732

relative Inform. Technology (IT)
olv3* 0.0 0.258 0.5 (0.0)
cmyn3* 1.0 0.742 0.5 (0.0)
olv4* 0.5 0.758 1.0 (1.0)
cmyn4* 0.0 0.758 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 29.99 -2.19 -12.81
LAB*LABa 29.99 -2.69 -23.15
LAB*TCHa 25.01 23.31 263.35

relative CIELAB lab*
lab*lab 0.154 -0.057 -0.496
lab*tch 0.25 0.5 0.732
lab*nch 0.0 0.75 0.732
relative Natural Colour (NC)
lab*trj 0.154 0.0 -0.499
lab*tce 0.25 0.5 0.732
lab*nce 0.0 0.75 0.732

relative Inform. Technology (IT)
olv3* 0.0 0.258 0.5 (0.0)
cmyn3* 1.0 0.742 0.5 (0.0)
olv4* 0.5 0.758 1.0 (1.0)
cmyn4* 0.0 0.758 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 29.99 -2.19 -12.81
LAB*LABa 29.99 -2.69 -23.15
LAB*TCHa 25.01 23.31 263.35

relative CIELAB lab*
lab*lab 0.154 -0.057 -0.496
lab*tch 0.25 0.5 0.732
lab*nch 0.0 0.75 0.732
relative Natural Colour (NC)
lab*trj 0.154 0.0 -0.499
lab*tce 0.25 0.5 0.732
lab*nce 0.0 0.75 0.732

relative Inform. Technology (IT)
olv3* 0.0 0.258 0.5 (0.0)
cmyn3* 1.0 0.742 0.5 (0.0)
olv4* 0.5 0.758 1.0 (1.0)
cmyn4* 0.0 0.758 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 29.99 -2.19 -12.81
LAB*LABa 29.99 -2.69 -23.15
LAB*TCHa 25.01 23.31 263.35

relative CIELAB lab*
lab*lab 0.154 -0.057 -0.496
lab*tch 0.25 0.5 0.732
lab*nch 0.0 0.75 0.732
relative Natural Colour (NC)
lab*trj 0.154 0.0 -0.499
lab*tce 0.25 0.5 0.732
lab*nce 0.0 0.75 0.732

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 95.41 0.0 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.0 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 (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 56.78 0.0 2.11
LAB*LABa 56.78 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 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.48 -0.67 0.82
LAB*LABa 37.44 0.0 0.0
LAB*TCHa 25.0 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 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.46
LAB*LABa 18.1 0.0 0.0
LAB*TCHa 0.01

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