

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

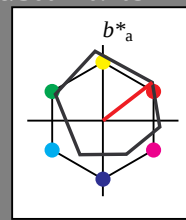
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 47.5
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 -

relative Inform. Technology (IT)
olvi3* 1.0 0.75 0.75 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olvi4* 1.0 0.75 0.75 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 83.54 15.58 16.58
LAB*LABa 71.67 32.68 25.25
LAB*TCHa 97.5 20.65 37.7

relative Inform. Technology (IT)
olvi3* 1.0 0.5 0.5 (1.0)
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UE510-7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

5 step scales for constant CIELAB hue 31/360 = 0.086 (right)

BAM-test chart UE51; Colorimetric systems ORS18 & MRS18a input: $cm y0^* set cmykcolor$

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

output: no change compared to input

IT systems

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

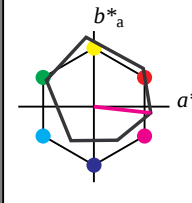
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

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standard and adapted CIELAB
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LAB*LABa 95.41 0.0 0.0
LAB*TCMa 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)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
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standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCMa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.847 0.248 -0.027
lab*tch 0.875 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.847 0.227 -0.103
lab*tce 0.875 0.25 0.982
lab*nce 0.0 0.25 0.982

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.597 0.248 -0.027
lab*tch 0.625 0.25 0.982
lab*nch 0.25 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.597 0.227 -0.103
lab*tce 0.625 0.25 0.982
lab*nce 0.25 0.25 0.982

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olvi3* 0.5 0.5 0.5 (0.0)
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standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 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*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.5 (0.0)
lab*nce 0.5 0.5 0.5 (0.0)

relative Inform. Technology (IT)
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cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCMa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.347 0.248 -0.027
lab*tch 0.375 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.347 0.227 -0.103
lab*tce 0.375 0.25 0.982
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standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCMa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.248 -0.027
lab*tch 0.125 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.097 0.227 -0.103
lab*tce 0.125 0.25 0.982
lab*nce 0.75 0.25 0.982

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCMa 0.01 0.01 -

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

$n^* = 1.0$

$n^* = 1.0$

UE510-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

Output: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 323/360 = 0.896$

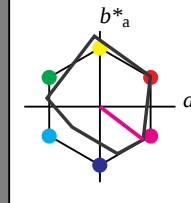
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



MRS18a; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.8	40.02	77.87	31
JMa	90.7	-7.27	93.19	93.48	94
GMa	52.11	-69.93	11.26	70.85	171
G50BMa	45.03	-36.65	-27.13	45.61	217
BMa	36.65	23.26	-62.27	66.49	290
B50RMa	34.94	57.27	-43.6	71.99	323
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.67	27.97	64.99	25
JCIE	81.26	-2.91	71.56	71.62	92
GCIE	52.23	-42.47	13.58	44.6	162
BCIE	30.57	1.33	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 42$

$g^*_{C,rel} = 49$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.01 0.0
LAB*LABa 95.41 0.0 0.0
LAB*TCMa 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)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 0.03 0.25
LAB*LABa 76.06 0.0 0.0
LAB*TCMa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.805 0.199 -0.15
lab*tch 0.875 0.25 0.896
lab*nch 0.0 0.25 0.896
relative Natural Colour (NC)
lab*trj 0.805 0.162 -0.189
lab*tce 0.875 0.25 0.862
lab*nce 0.0 0.25 0.844

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.01 0.0
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.595 0.199 -0.15
lab*tch 0.625 0.25 0.896
lab*nch 0.25 0.25 0.896
relative Natural Colour (NC)
lab*trj 0.595 0.162 -0.189
lab*tce 0.625 0.25 0.862
lab*nce 0.0 0.25 0.844

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.01 0.0
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 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*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.5 (0.0)
lab*nce 0.5 0.5 0.5 (0.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCMa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.347 0.248 -0.027
lab*tch 0.375 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.347 0.227 -0.103
lab*tce 0.375 0.25 0.982
lab*nce 0.5 0.25 0.982

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCMa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.347 0.248 -0.027
lab*tch 0.375 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.347 0.227 -0.103
lab*tce 0.375 0.25 0.982
lab*nce 0.5 0.25 0.982

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCMa 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.347 0.248 -0.027
lab*tch 0.375 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.347 0.227 -0.103
lab*tce 0.375 0.25 0.982
lab*nce 0.5 0.25 0.982

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCMa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.095 0.199 -0.15
lab*tch 0.125 0.25 0.896
lab*nch 0.0 0.25 0.896
relative Natural Colour (NC)
lab*trj 0.095 0.162 -0.189
lab*tce 0.125 0.25 0.862
lab*nce 0.75 0.25 0.844

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCMa 0.01 0.01 -

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

$n^* = 1.0$

$n^* = 1.0$

5 step scales for constant CIELAB hue 323/360 = 0.896 (right)

BAM-test chart UE51; Colorimetric systems ORS18 & MRS18a input: cmy0* setcmykcolor

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

output: no change compared to input

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

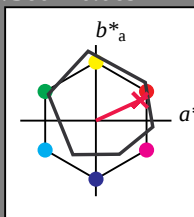
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

rgb*Ma: 1.0 0.0 0.32

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	-0.97	7.5
LAB*LABa	95.41	0.0	0.0
LAB*LABb	99.99	0.01	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.831	(1.0)
cmyn3*	0.0	0.25	0.169	(0.0)
olvi4*	1.0	0.75	0.831	(1.0)
cmyn4*	0.0	0.25	0.169	(0.0)

standard and adapted CIELAB

LAB*LAB	83.55	16.38	11.84
LAB*LABa	83.55	17.13	7.88
LAB*LABb	97.5	18.86	24.69

relative CIELAB lab*

lab*lab	0.847	0.25	0.104
lab*lab	0.875	0.25	0.069
lab*lab	0.875	0.25	0.069
lab*lab	0.875	0.25	0.069

relative Natural Colour (NC)

lab*lab	0.847	0.25	0.104
lab*lab	0.875	0.25	0.069
lab*lab	0.875	0.25	0.069
lab*lab	0.875	0.25	0.069

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44
LAB*LABa	76.06	0.0	0.0
LAB*LABb	75.0	0.01	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.581	(1.0)
cmyn3*	0.25	0.5	0.419	(0.0)
olvi4*	1.0	0.75	0.831	(0.75)
cmyn4*	0.0	0.25	0.169	(0.25)

standard and adapted CIELAB

LAB*LAB	64.21	16.76	10.54
LAB*LABa	64.21	17.14	7.88
LAB*LABb	62.5	18.87	24.7

relative CIELAB lab*

lab*lab	0.597	0.227	0.104
lab*lab	0.625	0.25	0.069
lab*lab	0.625	0.25	0.069
lab*lab	0.625	0.25	0.069

relative Natural Colour (NC)

lab*lab	0.597	0.227	0.104
lab*lab	0.625	0.25	0.069
lab*lab	0.625	0.25	0.069
lab*lab	0.625	0.25	0.069

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.581	(1.0)
cmyn3*	0.25	0.5	0.419	(0.0)
olvi4*	1.0	0.75	0.831	(0.75)
cmyn4*	0.0	0.25	0.169	(0.25)

standard and adapted CIELAB

LAB*LAB	44.86	11.93	9.23
LAB*LABa	44.86	12.14	7.88
LAB*LABb	43.75	14.78	24.7

relative CIELAB lab*

lab*lab	0.347	0.25	0.104
lab*lab	0.375	0.25	0.069
lab*lab	0.375	0.25	0.069
lab*lab	0.375	0.25	0.069

relative Natural Colour (NC)

lab*lab	0.347	0.25	0.104
lab*lab	0.375	0.25	0.069
lab*lab	0.375	0.25	0.069
lab*lab	0.375	0.25	0.069

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.581	(1.0)
cmyn3*	0.25	0.5	0.419	(0.0)
olvi4*	1.0	0.75	0.831	(0.75)
cmyn4*	0.0	0.25	0.169	(0.25)

standard and adapted CIELAB

LAB*LAB	37.36	16.43	0.63
LAB*LABa	37.36	0.0	0.0
LAB*LABb	37.36	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.581	(1.0)
cmyn3*	0.25	0.5	0.419	(0.0)
olvi4*	1.0	0.75	0.831	(0.75)
cmyn4*	0.0	0.25	0.169	(0.25)

standard and adapted CIELAB

LAB*LAB	33.01	34.49	31.31
LAB*LABa	33.01	34.27	15.77
LAB*LABb	33.01	34.27	15.77

relative CIELAB lab*

lab*lab	0.291	0.681	0.313
lab*lab	0.375	0.75	0.069
lab*lab	0.375	0.75	0.069
lab*lab	0.375	0.75	0.069

relative Natural Colour (NC)

lab*lab	0.291	0.681	0.313
lab*lab	0.375	0.75	0.069
lab*lab	0.375	0.75	0.069
lab*lab	0.375	0.75	0.069

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.581	(1.0)
cmyn3*	0.25	0.5	0.419	(0.0)
olvi4*	1.0	0.75	0.831	(0.75)
cmyn4*	0.0	0.25	0.169	(0.25)

standard and adapted CIELAB

LAB*LAB	25.51	17.49	7.88
LAB*LABa	25.51	17.13	7.88
LAB*LABb	25.51	18.86	24.71

relative CIELAB lab*

lab*lab	0.097	0.227	0.104
lab*lab	0.125	0.25	0.069
lab*lab	0.125	0.25	0.069
lab*lab	0.125	0.25	0.069

relative Natural Colour (NC)

lab*lab	0.097	0.227	0.104
lab*lab	0.125	0.25	0.069
lab*lab	0.125	0.25	0.069
lab*lab	0.125	0.25	0.069

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.581	(1.0)
cmyn3*	0.25	0.5	0.419	(0.0)
olvi4*	1.0	0.75	0.831	(0.75)
cmyn4*	0.0	0.25	0.169	(0.25)

standard and adapted CIELAB

LAB*LAB	18.02	18.02	0.46
LAB*LABa	18.02	0.0	0.0
LAB*LABb	18.02	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.581	(1.0)
cmyn3*	0.25	0.5	0.419	(0.0)
olvi4*	1.0	0.75	0.831	(0.75)
cmyn4*	0.0	0.25	0.169	(0.25)

standard and adapted CIELAB

LAB*LAB	18.02	18.02	0.46
LAB*LABa	18.02	0.0	0.0
LAB*LABb	18.02	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.75	0.5	0.581	(1.0)
cmyn3*	0.25	0.5	0.419	(0.0)
olvi4*	1.0	0.75	0.831	(0.75)
cmyn4*	0.0	0.25	0.169	(0.25)

standard and adapted CIELAB

LAB*LAB	18.02	18.02	0.46
LAB*LABa	18.02	0.0	0.0
LAB*LABb	18.02	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

ORS18; adapted (a) CIELAB data

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

OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	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	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

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

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

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.831	(1.0)
cmyn3*	0.0	0.25	0.169	(0.0)
olvi4*	1.0	0.75	0.831	(1.0)
cmyn4*	0.0	0.25	0.169	(0.0)

standard and adapted CIELAB

LAB*LAB	71.7	33.75	18.92
LAB*LABa	71.7	34.27	15.76
LAB*LABb	75.0	37.72	24.69

relative CIELAB lab*

lab*lab	0.694	0.454	0.209
lab*lab	0.75	0.5	0.069
lab*lab	0.75	0.5	0.069
lab*lab	0.75	0.5	0.069

relative Natural Colour (NC)

lab*lab	0.694	0.454	0.209
lab*lab	0.75	0.5	0.069
lab*lab	0.75	0.5	0.069
lab*lab	0.75	0.5	0.069

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.831	(1.0)
cmyn3*	0.0	0.25	0.169	(0.0)
olvi4*	1.0	0.75	0.831	(1.0)
cmyn4*	0.0	0.25	0.169	(0.0)

standard and adapted CIELAB

LAB*LAB	59.85	51.12	26.0
LAB*LABa	59.85	51.42	23.64
LAB*LABb	62.5	56.39	24.7

relative CIELAB lab*

lab*lab	0.541	0.681	0.313
lab*lab	0.625	0.75	0.069
lab*lab	0.625	0.75	0.069
lab*lab	0.625	0.75	0.069

relative Natural Colour (NC)

lab*lab	0.541	0.681	0.313
lab*lab	0.625	0.75	0.069
lab*lab	0.625	0.75	0.069
lab*lab	0.625	0.75	0.069

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.831	(1.0)
cmyn3*	0.0	0.25	0.169	(0.0)
olvi4*	1.0	0.75	0.831	(1.0)
cmyn4*	0.0	0.25	0.169	(0.0)

standard and adapted CIELAB

LAB*LAB	48.01	68.48	33.09
LAB*LABa	48.01	68.55	31.53
LAB*LABb	50.0	75.45	24.7

relative CIELAB lab*

lab*lab	0.388	0.908	0.418
lab*lab	0.5	1.0	0.069
lab*lab	0.5	1.0	0.069
lab*lab	0.5	1.0	0.069

relative Natural Colour (NC)

lab*lab	0.388	0.908	0.418
lab*lab	0.5	1.0	0.069
lab*lab	0.5	1.0	0.069
lab*lab	0.5	1.0	0.069

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.831	(1.0)
cmyn3*	0.0	0.25	0.169	(0.0)
olvi4*	1.0	0.75	0.831	(1.0)
cmyn4*	0.0	0.25	0.169	(0.0)

standard and adapted CIELAB

LAB*LAB	40.51	51.49	24.7
LAB*LABa	40.51	51.41	23.65
LAB*LABb	42.5	56.39	24.7

relative CIELAB lab*

lab*lab	0.291	0.681	0.313
lab*lab	0.375	0.75	0.069
lab*lab	0.375	0.75	0.069
lab*lab	0.375	0.75	0.069

relative Natural Colour (NC)

lab*lab	0.291	0.681	0.313
lab*lab	0.375	0.75	0.069
lab*lab	0.375	0.75	0.069
lab*lab	0.375	0.75	0.069

LAB* <i>Lab</i>	48.51	51.44	23.93
LAB* <i>TCh</i> a	37.51	56.59	24.7
relative CIELAB lab*			
lab* <i>lab</i>	0.291	0.681	0.313
lab* <i>tch</i>	0.375	0.75	0.069
lab* <i>nch</i>	0.25	0.75	0.069
relative Natural Colour (NC)			
lab* <i>lrj</i>	0.291	0.75	0.0
lab* <i>tce</i>	0.375	0.75	0.0
lab* <i>nce</i>	0.25	0.75	0.001

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