

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 31/360 = 0.086$

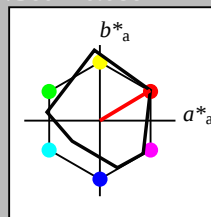
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 78 31

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 92$

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 0.01 0.0
LAB*TCHa 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*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 0.0
LAB*LABa 76.06 0.03 0.0
LAB*TCHa 75.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.05 0.0
LAB*LABa 56.71 0.05 0.0
LAB*TCHa 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.01
LAB*LABa 37.36 0.07 0.01
LAB*TCHa 25.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.03 0.02
LAB*LABa 18.02 0.03 0.02
LAB*TCHa 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

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 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.52 33.43 20.01
LAB*LABa 72.52 33.43 20.01
LAB*TCHa 75.00 38.93 30.93

relative CIELAB lab*
lab*lab 0.704 0.429 0.257
lab*tch 0.75 0.5 0.086
lab*nch 0.0 0.5 0.086
relative Natural Colour (NC)
lab*trj 0.704 0.496 0.064
lab*tce 0.75 0.5 0.086
lab*nce 0.0 0.5 0.086

relative Inform. Technology (IT)
olvi3* 0.75 0.0 0.0 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (0.75)
cmyn4* 0.0 0.5 0.5 (0.25)
standard and adapted CIELAB
LAB*LAB 53.17 33.46 20.03
LAB*LABa 53.17 33.46 20.03
LAB*TCHa 50.00 38.93 30.93

relative CIELAB lab*
lab*lab 0.625 0.438 0.385
lab*tch 0.625 0.75 0.086
lab*nch 0.0 0.75 0.086
relative Natural Colour (NC)
lab*trj 0.625 0.75 0.086
lab*tce 0.625 0.75 0.086
lab*nce 0.0 0.75 0.086

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.5 0.5 (0.086)
olvi4* 1.0 0.25 0.25 (0.75)
cmyn4* 0.0 0.25 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 41.73 50.16 30.03
LAB*LABa 41.73 50.16 30.03
LAB*TCHa 37.51 58.39 30.93

relative CIELAB lab*
lab*lab 0.306 0.643 0.385
lab*tch 0.375 0.75 0.086
lab*nch 0.0 0.75 0.086
relative Natural Colour (NC)
lab*trj 0.306 0.744 0.096
lab*tce 0.375 0.75 0.086
lab*nce 0.0 0.75 0.086

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.086)
olvi4* 1.0 0.25 0.25 (0.75)
cmyn4* 0.0 0.25 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 33.82 33.47 20.03
LAB*LABa 33.82 33.47 20.03
LAB*TCHa 25.01 38.93 30.93

relative CIELAB lab*
lab*lab 0.204 0.429 0.257
lab*tch 0.25 0.5 0.086
lab*nch 0.0 0.5 0.086
relative Natural Colour (NC)
lab*trj 0.204 0.496 0.064
lab*tce 0.25 0.5 0.086
lab*nce 0.0 0.5 0.086

$n^* = 0.50$

Output: Colorimetric Reflective System ORS18

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

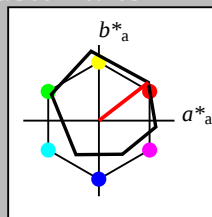
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



% 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 4.75
LAB*LABa 95.41 0.01 0.0
LAB*TCHa 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*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 -0.6 3.44
LAB*LABa 76.06 0.01 0.0
LAB*TCHa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*tch 0.75 0.0 0.0
lab*nch 0.25 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 0.25 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.23 2.14
LAB*LABa 56.71 0.23 2.14
LAB*TCHa 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.13 1.38
LAB*LABa 37.36 0.13 1.38
LAB*TCHa 25.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.46
LAB*LABa 18.02 0.5 0.46
LAB*TCHa 0.0 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

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
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* 0.75 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (0.75)
cmyn4* 0.0 0.5 0.5 (0.25)
standard and adapted CIELAB
LAB*LAB 59.81 48.72 40.24
LAB*LABa 59.81 48.72 40.24
LAB*TCHa 50.00 38.93 30.93

relative CIELAB lab*
lab*lab 0.54 0.593 0.459
lab*tch 0.75 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*trj 0.54 0.75 0.225
lab*tce 0.75 0.5 0.105
lab*nce 0.0 0.5 0.105

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.086)
cmyn3* 0.5 0.5 0.5 (0.086)
olvi4* 1.0 0.25 0.25 (0.75)
cmyn4* 0.0 0.25 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 44.84 16.33 13.98
LAB*LABa 44.84 16.33 13.98
LAB*TCHa 37.51 20.65 37.7

relative CIELAB lab*
lab*lab 0.347 0.198 0.153
lab*tch 0.375 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.347 0.299 0.075
lab*tce 0.375 0.25 0.105
lab*nce 0.0 0.25 0.105

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.086)
olvi4* 1.0 0.25 0.25 (0.75)
cmyn4* 0.0 0.25 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 32.98 32.68 25.25
LAB*LABa 32.98 32.68 25.25
LAB*TCHa 25.01 41.31 37.7

relative CIELAB lab*
lab*lab 0.193 0.396 0.306
lab*tch 0.25 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*trj 0.25 0.715 0.225
lab*tce 0.25 0.5 0.105
lab*nce 0.0 0.5 0.105

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 1.0 0.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.46
LAB*LABa 18.02 0.5 0.46
LAB*TCHa 0.0 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 0.75 0.25 0.25 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 (0.75)
cmyn4* 0.0 0.5 0.5 (0.25)
standard and adapted CIELAB
LAB*LAB 59.81 48.72 40.24
LAB*LABa 59.81 48.72 40.24
LAB*TCHa 50.00 38.93 30.93

relative CIELAB lab*
lab*lab 0.54 0.593 0.459
lab*tch 0.75 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*trj 0.54 0.75 0.225
lab*tce 0.75 0.5 0.105
lab*nce 0.0 0.5 0.105

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.086)
cmyn3* 0.5 0.5 0.5 (0.086)
olvi4* 1.0 0.25 0.25 (0.75)
cmyn4* 0.0 0.25 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 44.84 16.33 13.98
LAB*LABa 44.84 16.33 13.98
LAB*TCHa 37.51 20.65 37.7

relative CIELAB lab*
lab*lab 0.347 0.198 0.153
lab*tch 0.375 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.347 0.299 0.075
lab*tce 0.375 0.25 0.105
lab*nce 0.0 0.25 0.105

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.086)
olvi4* 1.0 0.25 0.25 (0.75)
cmyn4* 0.0 0.25 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 32.98 32.68 25.25
LAB*LABa 32.98 32.68 25.25
LAB*TCHa 25.01 41.31 37.7

relative CIELAB lab*
lab*lab 0.193 0.396 0.306
lab*tch 0.25 0.5 0.105
lab*nch 0.0 0.5 0.105
relative Natural Colour (NC)
lab*trj 0.25 0.715 0.225
lab*tce 0.25 0.5 0.105
lab*nce 0.0 0.5 0.105

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 1.0 0.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.46
LAB*LABa 18.02 0.5 0.46
LAB*TCHa 0.0 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 0.00$

UE560-7, 5 step scales for constant CIELAB hue 31/360 = 0.086 (left)

5 step scales for constant CIELAB hue 38/360 = 0.105 (right)

BAM-test chart UE56; Colorimetric systems MRS18a & ORS18 input: $cmv0^* setcmykcolor$

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

output: $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 94/360 = 0.262$

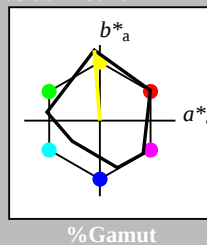
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 93 94

rgb*Ma: 1.0 1.0 0.0

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

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

relative Inform. Technology (IT)					
olvi3*	0.75	0.75	0.5	1.0	1.0
cmyn3*	0.25	0.25	0.5	0.0	0.0
olvi4*	1.0	1.0	0.75	0.75	1.0
cmyn4*	0.0	0.0	0.25	0.25	0.25
standard and adapted CIE Lab					
LAB*Lab	74.88	-1.78	23.3	23.3	23.3
LAB*Lab _a	74.88	-1.81	23.3	23.3	23.3
LAB*TC _h a	62.5	23.37	94.46	94.46	94.46
relative CIE Lab lab*					
lab*lab	0.735	-0.018	0.249	0.249	0.249
lab*tc _h	0.625	0.25	0.262	0.262	0.262
lab*nch	0.25	0.25	0.262	0.262	0.262
relative Natural Colour (NC)					
lab*lrj	0.735	-0.011	0.25	0.25	0.25

Input: Colorimetric Reflective System MRS18a

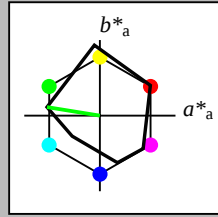
for hue $h^* = lab^*h = 171/360 = 0.475$
 lab^*ch and lab^*nch

D65: hue G

LCH*Ma: 52 71 171

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



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 0.01 0.0
LAB*TCHa 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*tc 1.0 0.0 0.0
lab*ncc 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 0.03 0.0
LAB*LABa 76.06 0.03 0.0
LAB*TCHa 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*tc 0.75 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 0.05 0.0
LAB*LABa 56.71 0.05 0.0
LAB*TCHa 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*tc 0.5 0.0 0.0
lab*ncc 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.01
LAB*LABa 37.36 0.07 0.01
LAB*TCHa 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*tc 0.25 0.0 0.0
lab*ncc 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 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.00 0.02
LAB*LABa 18.02 0.00 0.02
LAB*TCHa 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*tc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.00 0.02
LAB*LABa 18.02 0.00 0.02
LAB*TCHa 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*tc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

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* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 1.0 0.5 0.5
cmyn4* 0.5 0.5 0.5 0.0
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.01
LAB*LABa 37.36 0.07 0.01
LAB*TCHa 25.00 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*tc 0.5 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olvi4* 0.5 1.0 0.5 0.75
cmyn4* 0.5 0.75 0.5 0.25
standard and adapted CIELAB
LAB*LAB 44.41 0.05 0.01
LAB*LABa 44.41 0.05 0.01
LAB*TCHa 30.00 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*tc 0.25 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.0 (1.0)
cmyn3* 0.75 0.0 0.75 (0.0)
olvi4* 0.5 1.0 0.5 0.0
cmyn4* 0.5 0.0 0.5 0.5
standard and adapted CIELAB
LAB*LAB 52.11 0.05 0.01
LAB*LABa 52.11 0.05 0.01
LAB*TCHa 35.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.75 0.0
lab*ch 0.0 0.75 0.0
lab*nch 0.0 0.0 0.5
relative Natural Colour (NC)
lab*tr 0.0 0.75 0.0
lab*tc 0.0 0.75 0.0
lab*ncc 0.0 0.0 0.5

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 1.0 0.5 0.5
cmyn4* 0.5 0.5 0.5 0.0
standard and adapted CIELAB
LAB*LAB 56.71 0.05 0.0
LAB*LABa 56.71 0.05 0.0
LAB*TCHa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.5 0.5
lab*ch 0.0 0.5 0.5
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.5 0.5
lab*tc 0.0 0.5 0.5
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.5 1.0 0.5 0.25
cmyn4* 0.25 0.25 0.25 0.0
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.01
LAB*LABa 37.36 0.07 0.01
LAB*TCHa 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.25 0.25
lab*ch 0.0 0.25 0.25
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.25 0.25
lab*tc 0.0 0.25 0.25
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 1.0 0.25 (1.0)
cmyn3* 1.0 0.25 1.0 (0.0)
olvi4* 0.25 1.0 0.25 1.0
cmyn4* 0.25 1.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 62.93 0.05 0.01
LAB*LABa 62.93 0.05 0.01
LAB*TCHa 45.00 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*tc 0.25 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 0.0 1.0 0.0 0.25
cmyn4* 0.25 0.0 0.25 0.5
standard and adapted CIELAB
LAB*LAB 52.11 0.05 0.01
LAB*LABa 52.11 0.05 0.01
LAB*TCHa 35.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.25 0.0
lab*ch 0.0 0.25 0.0
lab*nch 0.0 0.0 0.25
relative Natural Colour (NC)
lab*tr 0.0 0.25 0.0
lab*tc 0.0 0.25 0.0
lab*ncc 0.0 0.0 0.25

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olvi4* 0.0 1.0 0.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.00 0.02
LAB*LABa 18.02 0.00 0.02
LAB*TCHa 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*tc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olvi4* 0.0 1.0 0.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.00 0.02
LAB*LABa 18.02 0.00 0.02
LAB*TCHa 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*tc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olvi4* 0.0 1.0 0.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.00 0.02
LAB*LABa 18.02 0.00 0.02
LAB*TCHa 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*tc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olvi4* 0.0 1.0 0.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.00 0.02
LAB*LABa 18.02 0.00 0.02
LAB*TCHa 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*tc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 1.0 0.5 0.5
cmyn4* 0.5 0.5 0.5 0.0
standard and adapted CIELAB
LAB*LAB 56.71 0.05 0.0
LAB*LABa 56.71 0.05 0.0
LAB*TCHa 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*tc 0.5 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olvi4* 0.5 1.0 0.5 0.75
cmyn4* 0.5 0.75 0.5 0.25
standard and adapted CIELAB
LAB*LAB 44.41 0.05 0.01
LAB*LABa 44.41 0.05 0.01
LAB*TCHa 30.00 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*tc 0.25 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 1.0 0.5 0.5
cmyn4* 0.5 0.5 0.5 0.0
standard and adapted CIELAB
LAB*LAB 56.71 0.05 0.0
LAB*LABa 56.71 0.05 0.0
LAB*TCHa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.5 0.5
lab*ch 0.0 0.5 0.5
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.5 0.5
lab*tc 0.0 0.5 0.5
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.5 1.0 0.5 0.25
cmyn4* 0.25 0.25 0.25 0.0
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.01
LAB*LABa 37.36 0.07 0.01
LAB*TCHa 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.25 0.25
lab*ch 0.0 0.25 0.25
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.25 0.25
lab*tc 0.0 0.25 0.25
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olvi4* 0.0 1.0 0.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.00 0.02
LAB*LABa 18.02 0.00 0.02
LAB*TCHa 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*tc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olvi4* 0.0 1.0 0.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.00 0.02
LAB*LABa 18.02 0.00 0.02
LAB*TCHa 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*tc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

Output: Colorimetric Reflective System ORS18

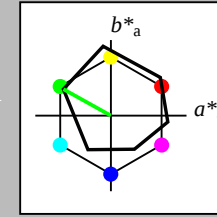
for hue $h^* = lab^*h = 151/360 = 0.419$
 lab^*ch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



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 4.75
LAB*LABa 95.41 0.01 0.0
LAB*TCHa 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*tc 1.0 0.0 0.0
lab*ncc 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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.03 0.0
LAB*TCHa 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*tc 0.75 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.05 0.0
LAB*TCHa 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*tc 0.5 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olvi4* 0.5 1.0 0.5 0.75
cmyn4* 0.5 0.75 0.5 0.25
standard and adapted CIELAB
LAB*LAB 44.41 -0.986 0.159
LAB*LABa 44.41 0.05 0.01
LAB*TCHa 30.00 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*tc 0.25 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.0 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olvi4* 0.0 1.0 0.0 0.25
cmyn4* 0.25 0.0 0.25 0.5
standard and adapted CIELAB
LAB*LAB 52.11 -0.991 -0.122
LAB*LABa 52.11 0.05 0.01
LAB*TCHa 35.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.25 0.0
lab*ch 0.0 0.25 0.0
lab*nch 0.0 0.0 0.25
relative Natural Colour (NC)
lab*tr 0.0 0.25 0.0
lab*tc 0.0 0.25 0.0
lab*ncc 0.0 0.0 0.25

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 217/360 = 0.601$

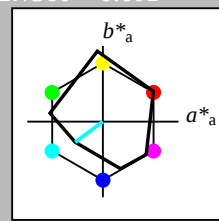
lab^*ch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 217

rgb*Ma: 0.0 1.0 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

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

$g^*_{C,rel} = 19$

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

relative Inform. Technology (IT)					
olvi3*	0.75	1.0	1.0	1.0	1.0
olvi4*	0.25	0.0	0.0	0.0	0.0
olvi5*	0.75	1.0	1.0	1.0	1.0
olvi6*	0.25	0.0	0.0	0.0	0.0
olvi7*	0.75	1.0	1.0	1.0	1.0
olvi8*	0.25	0.0	0.0	0.0	0.0
olvi9*	0.75	1.0	1.0	1.0	1.0
olvi10*	0.25	0.0	0.0	0.0	0.0
olvi11*	0.75	1.0	1.0	1.0	1.0
olvi12*	0.25	0.0	0.0	0.0	0.0
olvi13*	0.75	1.0	1.0	1.0	1.0
olvi14*	0.25	0.0	0.0	0.0	0.0
olvi15*	0.75	1.0	1.0	1.0	1.0
olvi16*	0.25	0.0	0.0	0.0	0.0
olvi17*	0.75	1.0	1.0	1.0	1.0
olvi18*	0.25	0.0	0.0	0.0	0.0
olvi19*	0.75	1.0	1.0	1.0	1.0
olvi20*	0.25	0.0	0.0	0.0	0.0
olvi21*	0.75	1.0	1.0	1.0	1.0
olvi22*	0.25	0.0	0.0	0.0	0.0
olvi23*	0.75	1.0	1.0	1.0	1.0
olvi24*	0.25	0.0	0.0	0.0	0.0
olvi25*	0.75	1.0	1.0	1.0	1.0
olvi26*	0.25	0.0	0.0	0.0	0.0
olvi27*	0.75	1.0	1.0	1.0	1.0
olvi28*	0.25	0.0	0.0	0.0	0.0
olvi29*	0.75	1.0	1.0	1.0	1.0
olvi30*	0.25	0.0	0.0	0.0	0.0
olvi31*	0.75	1.0	1.0	1.0	1.0
olvi32*	0.25	0.0	0.0	0.0	0.0
olvi33*	0.75	1.0	1.0	1.0	1.0
olvi34*	0.25	0.0	0.0	0.0	0.0
olvi35*	0.75	1.0	1.0	1.0	1.0
olvi36*	0.25	0.0	0.0	0.0	0.0
olvi37*	0.75	1.0	1.0	1.0	1.0
olvi38*	0.25	0.0	0.0	0.0	0.0
olvi39*	0.75	1.0	1.0	1.0	1.0
olvi40*	0.25	0.0	0.0	0.0	0.0
olvi41*	0.75	1.0	1.0	1.0	1.0
olvi42*	0.25	0.0	0.0	0.0	0.0
olvi43*	0.75	1.0	1.0	1.0	1.0
olvi44*	0.25	0.0	0.0	0.0	0.0
olvi45*	0.75	1.0	1.0	1.0	1.0
olvi46*	0.25	0.0	0.0	0.0	0.0
olvi47*	0.75	1.0	1.0	1.0	1.0
olvi48*	0.25	0.0	0.0	0.0	0.0
olvi49*	0.75	1.0	1.0	1.0	1.0
olvi50*	0.25	0.0	0.0	0.0	0.0
olvi51*	0.75	1.0	1.0	1.0	1.0
olvi52*	0.25	0.0	0.0	0.0	0.0
olvi53*	0.75	1.0	1.0	1.0	1.0
olvi54*	0.25	0.0	0.0	0.0	0.0
olvi55*	0.75	1.0	1.0	1.0	1.0
olvi56*	0.25	0.0	0.0	0.0	0.0
olvi57*	0.75	1.0	1.0	1.0	1.0
olvi58*	0.25	0.0	0.0	0.0	0.0
olvi59*	0.75	1.0	1.0	1.0	1.0
olvi60*	0.25	0.0	0.0	0.0	0.0
olvi61*	0.75	1.0	1.0	1.0	1.0
olvi62*	0.25	0.0	0.0	0.0	0.0
olvi63*	0.75	1.0	1.0	1.0	1.0
olvi64*	0.25	0.0	0.0	0.0	0.0
olvi65*	0.75	1.0	1.0	1.0	1.0
olvi66*	0.25	0.0	0.0	0.0	0.0
olvi67*	0.75	1.0	1.0	1.0	1.0
olvi68*	0.25	0.0	0.0	0.0	0.0
olvi69*	0.75	1.0	1.0	1.0	1.0
olvi70*	0.25	0.0	0.0	0.0	0.0
olvi71*	0.75	1.0	1.0	1.0	1.0
olvi72*	0.25	0.0	0.0	0.0	0.0
olvi73*	0.75	1.0	1.0	1.0	1.0
olvi74*	0.25	0.0	0.0	0.0	0.0
olvi75*	0.75	1.0	1.0	1.0	1.0
olvi76*	0.25	0.0	0.0	0.0	0.0
olvi77*	0.75	1.0	1.0	1.0	1.0
olvi78*	0.25	0.0	0.0	0.0	0.0
olvi79*	0.75	1.0	1.0	1.0	1.0
olvi80*	0.25	0.0	0.0	0.0	0.0
olvi81*	0.75	1.0	1.0	1.0	1.0
olvi82*	0.25	0.0	0.0	0.0	0.0
olvi83*	0.75	1.0	1.0	1.0	1.0
olvi84*	0.25	0.0	0.0	0.0	0.0
olvi85*	0.75	1.0	1.0	1.0	1.0
olvi86*	0.25	0.0	0.0	0.0	0.0
olvi87*	0.75	1.0	1.0	1.0	1.0
olvi88*	0.25	0.0	0.0	0.0	0.0
olvi89*	0.75	1.0	1.0	1.0	1.0
olvi90*	0.25	0.0	0.0	0.0	0.0
olvi91*	0.75	1.0	1.0	1.0	1.0
olvi92*	0.25	0.0	0.0	0.0	0.0
olvi93*	0.75	1.0	1.0	1.0	1.0
olvi94*	0.25	0.0	0.0	0.0	0.0
olvi95*	0.75	1.0	1.0	1.0	1.0
olvi96*	0.25	0.0	0.0	0.0	0.0
olvi97*	0.75	1.0	1.0	1.0	1.0
olvi98*	0.25	0.0	0.0	0.0	0.0
olvi99*	0.75	1.0	1.0	1.0	1.0
olvi100*	0.25	0.0	0.0	0.0	0.0

relative Inform. Technology (IT)			
olvi3*	0.5	1.0	1.0
cmyn3*	0.5	0.0	0.0
olvi4*	0.5	1.0	1.0
cmyn4*	0.5	0.0	0.0
standard and adapted CIELAB			
LAB*LAB	70.21	-18.28	-13.24
LAB*LAB ₀	70.21	-19.21	-13.24

Input: Colorimetric Reflective System MRS18a

for hue $h^* = lab^*h = 290/360 = 0.807$

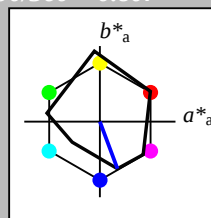
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 66 290

rgb*Ma: 0.0 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*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)
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 0.0
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01

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

relative Inform. Technology (IT)
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 0.05 0.0
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.00 0.01

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

relative Inform. Technology (IT)
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 37.26 0.07 0.01
LAB*LABa 37.26 0.0 0.0
LAB*TCHa 25.00 0.01

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

relative Inform. Technology (IT)
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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.02 0.0
LAB*LABa 18.02 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

$n^* = 1.0$

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.72 5.84 -15.55
LAB*LABa 80.72 5.81 -15.55
LAB*TCHa 87.5 16.61 290.48

relative CIELAB lab*
lab*lab 0.81 0.087 -0.233
lab*tch 0.875 0.25 0.807
lab*nch 0.0 0.25 0.807
relative Natural Colour (NC)
lab*trj 0.81 0.087 -0.241
lab*tce 0.875 0.25 0.791
lab*nce 0.0 0.25 0.791

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.63 -31.12
LAB*LABa 66.03 11.63 -31.12
LAB*TCHa 75.0 33.24 290.48

relative CIELAB lab*
lab*lab 0.62 0.175 -0.467
lab*tch 0.75 0.5 0.807
lab*nch 0.0 0.5 0.807
relative Natural Colour (NC)
lab*trj 0.62 0.128 -0.482
lab*tce 0.75 0.5 0.791
lab*nce 0.0 0.5 0.791

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 46.68 11.63 -31.12
LAB*LABa 46.68 11.63 -31.12
LAB*TCHa 50.0 33.24 290.48

relative CIELAB lab*
lab*lab 0.37 0.175 -0.467
lab*tch 0.5 0.5 0.807
lab*nch 0.0 0.5 0.807
relative Natural Colour (NC)
lab*trj 0.37 0.128 -0.482
lab*tce 0.5 0.5 0.791
lab*nce 0.0 0.5 0.791

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.71 31.13
LAB*LABa 27.34 11.63 -31.13
LAB*TCHa 25.01 33.24 290.48

relative CIELAB lab*
lab*lab 0.12 0.175 -0.467
lab*tch 0.25 0.5 0.807
lab*nch 0.0 0.5 0.807
relative Natural Colour (NC)
lab*trj 0.12 0.128 -0.482
lab*tce 0.25 0.5 0.791
lab*nce 0.0 0.5 0.791

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.02 0.0
LAB*LABa 18.02 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

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.63 -31.12
LAB*LABa 66.03 11.63 -31.12
LAB*TCHa 75.0 33.24 290.48

relative CIELAB lab*
lab*lab 0.62 0.175 -0.467
lab*tch 0.75 0.5 0.807
lab*nch 0.0 0.5 0.807
relative Natural Colour (NC)
lab*trj 0.62 0.128 -0.482
lab*tce 0.75 0.5 0.791
lab*nce 0.0 0.5 0.791

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 46.68 11.63 -31.12
LAB*LABa 46.68 11.63 -31.12
LAB*TCHa 50.0 33.24 290.48

relative CIELAB lab*
lab*lab 0.37 0.175 -0.467
lab*tch 0.5 0.5 0.807
lab*nch 0.0 0.5 0.807
relative Natural Colour (NC)
lab*trj 0.37 0.128 -0.482
lab*tce 0.5 0.5 0.791
lab*nce 0.0 0.5 0.791

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.71 31.13
LAB*LABa 27.34 11.63 -31.13
LAB*TCHa 25.01 33.24 290.48

relative CIELAB lab*
lab*lab 0.12 0.175 -0.467
lab*tch 0.25 0.5 0.807
lab*nch 0.0 0.5 0.807
relative Natural Colour (NC)
lab*trj 0.12 0.128 -0.482
lab*tce 0.25 0.5 0.791
lab*nce 0.0 0.5 0.791

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.02 0.0
LAB*LABa 18.02 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)
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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.02 0.0
LAB*LABa 18.02 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

$n^* = 0.25$

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 32.0 17.52 -46.67
LAB*LABa 32.0 17.44 -46.7
LAB*TCHa 37.51 49.86 290.48

relative CIELAB lab*
lab*lab 0.181 0.262 -0.702
lab*tch 0.375 0.75 0.807
lab*nch 0.0 0.75 0.807
relative Natural Colour (NC)
lab*trj 0.181 0.193 -0.724
lab*tce 0.375 0.75 0.791
lab*nce 0.0 0.75 0.791

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.25 -62.26
LAB*LABa 36.65 23.25 -62.26
LAB*TCHa 50.0 66.47 290.48

relative CIELAB lab*
lab*lab 0.241 0.35 -0.936
lab*tch 0.5 1.0 0.807
lab*nch 0.0 1.0 0.807
relative Natural Colour (NC)
lab*trj 0.241 0.257 -0.965
lab*tce 0.5 1.0 0.791
lab*nce 0.0 1.0 0.791

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.25 -62.26
LAB*LABa 36.65 23.25 -62.26
LAB*TCHa 50.0 66.47 290.48

relative CIELAB lab*
lab*lab 0.241 0.35 -0.936
lab*tch 0.5 1.0 0.807
lab*nch 0.0 1.0 0.807
relative Natural Colour (NC)
lab*trj 0.241 0.257 -0.965
lab*tce 0.5 1.0 0.791
lab*nce 0.0 1.0 0.791

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.25 -62.26
LAB*LABa 36.65 23.25 -62.26
LAB*TCHa 50.0 66.47 290.48

relative CIELAB lab*
lab*lab 0.241 0.35 -0.936
lab*tch 0.5 1.0 0.807
lab*nch 0.0 1.0 0.807
relative Natural Colour (NC)
lab*trj 0.241 0.257 -0.965
lab*tce 0.5 1.0 0.791
lab*nce 0.0 1.0 0.791

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.25 -62.26
LAB*LABa 36.65 23.25 -62.26
LAB*TCHa 50.0 66.47 290.48

relative CIELAB lab*
lab*lab 0.241 0.35 -0.936
lab*tch 0.5 1.0 0.807
lab*nch 0.0 1.0 0.807
relative Natural Colour (NC)
lab*trj 0.241 0.257 -0.965
lab*tce 0.5 1.0 0.791
lab*nce 0.0 1.0 0.791

$n^* = 0.00$

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.63 -31.12
LAB*LABa 66.03 11.63 -31.12
LAB*TCHa 75.0 33.24 290.48

relative CIELAB lab*
lab*lab 0.62 0.175 -0.467
lab*tch 0.75 0.5 0.807
lab*nch 0.0 0.5 0.807
relative Natural Colour (NC)
lab*trj 0.62 0.128 -0.482
lab*tce 0.75 0.5 0.791
lab*nce 0.0 0.5 0.791

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 46.68 11.63 -31.12
LAB*LABa 46.68 11.63 -31.12
LAB*TCHa 50.0 33.24 290.48

relative CIELAB lab*
lab*lab 0.37 0.175 -0.467
lab*tch 0.5 0.5 0.807
lab*nch 0.0 0.5 0.807
relative Natural Colour (NC)
lab*trj 0.37 0.128 -0.482
lab*tce 0.5 0.5 0.791
lab*nce 0.0 0.5 0.791

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.71 31.13
LAB*LABa 27.34 11.63 -31.13
LAB*TCHa 25.01 33.24 290.48

relative CIELAB lab*
lab*lab 0.12 0.175 -0.467
lab*tch 0.25 0.5 0.807
lab*nch 0.0 0.5 0.807
relative Natural Colour (NC)
lab*trj 0.12 0.128 -0.482
lab*tce 0.25 0.5 0.791
lab*nce 0.0 0.5 0.791

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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.02 0.0
LAB*LABa 18.02 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)
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 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.02 0.0
LAB*LABa 18.02 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

$n^* = 1.0$

Output: Colorimetric Reflective System ORS18

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

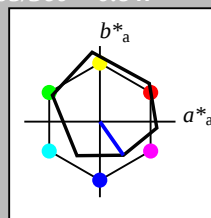
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*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}
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

Input: Colorimetric Reflective System MRS18a

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

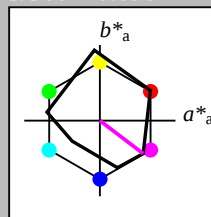
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 323

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 92$

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 0.01 0.0
LAB*TCHa 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*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 0.0
LAB*LABa 76.06 0.03 0.0
LAB*TCHa 75.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.05 0.0
LAB*LABa 56.71 0.05 0.0
LAB*TCHa 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.01 0.0
LAB*LABa 37.36 0.01 0.0
LAB*TCHa 25.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.01 0.0
LAB*LABa 18.02 0.01 0.0
LAB*TCHa 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

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

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 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.29 14.34 -10.89
LAB*LABa 80.29 14.34 -10.89
LAB*TCHa 97.5 17.99 322.71

relative CIELAB lab*
lab*lab 0.609 0.398 -0.302
lab*tch 0.75 0.5 0.896
lab*nch 0.0 0.5 0.896
relative Natural Colour (NC)
lab*trj 0.609 0.324 -0.38
lab*tce 0.75 0.5 0.862
lab*nce 0.0 0.5 0.844

relative Inform. Technology (IT)
olvi3* 0.75 0.5 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 45.83 28.64 -21.8
LAB*LABa 45.83 28.64 -21.8
LAB*TCHa 50.0 35.99 322.71

relative CIELAB lab*
lab*lab 0.414 0.597 -0.453
lab*tch 0.625 0.75 0.896
lab*nch 0.0 0.75 0.896
relative Natural Colour (NC)
lab*trj 0.414 0.486 -0.57
lab*tce 0.625 0.75 0.862
lab*nce 0.0 0.75 0.844

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 30.72 43.03 -32.67
LAB*LABa 30.72 43.03 -32.67
LAB*TCHa 37.51 53.98 322.71

relative CIELAB lab*
lab*lab 0.164 0.597 -0.453
lab*tch 0.375 0.75 0.896
lab*nch 0.0 0.75 0.896
relative Natural Colour (NC)
lab*trj 0.164 0.486 -0.57
lab*tce 0.375 0.75 0.862
lab*nce 0.0 0.75 0.844

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.5 0.25 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 26.48 28.72 -11.77
LAB*LABa 26.48 28.72 -11.77
LAB*TCHa 25.01 35.99 322.71

relative CIELAB lab*
lab*lab 0.109 0.398 -0.302
lab*tch 0.25 0.5 0.896
lab*nch 0.0 0.5 0.896
relative Natural Colour (NC)
lab*trj 0.109 0.324 -0.38
lab*tce 0.25 0.5 0.862
lab*nce 0.0 0.5 0.844

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.75 1.0 0.0 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 22.25 14.34 -10.86
LAB*LABa 22.25 14.34 -10.86
LAB*TCHa 12.5 17.99 322.71

relative CIELAB lab*
lab*lab 0.055 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 0.055 0.162 -0.189
lab*tce 0.125 0.25 0.862
lab*nce 0.0 0.25 0.844

Output: Colorimetric Reflective System ORS18

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

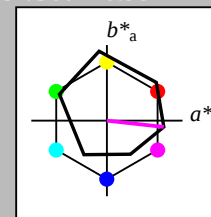
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



% 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 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 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 0.75 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.75 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 -0.6 3.44
LAB*TCHa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*tch 0.75 0.0 0.0
lab*nch 0.75 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.23 2.14
LAB*LABa 56.71 0.23 2.14
LAB*TCHa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.219 0.795 -0.605
lab*tch 0.5 0.0 0.896
lab*nch 0.0 0.0 0.896
relative Natural Colour (NC)
lab*trj 0.219 0.648 -0.761
lab*tce 0.5 0.0 0.862
lab*nce 0.0 0.0 0.844

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 0.13 0.08
LAB*LABa 37.36 0.13 0.08
LAB*TCHa 37.51 53.98 322.71

relative CIELAB lab*
lab*lab 0.164 0.597 -0.453
lab*tch 0.375 0.75 0.896
lab*nch 0.0 0.75 0.896
relative Natural Colour (NC)
lab*trj 0.164 0.486 -0.57
lab*tce 0.375 0.75 0.862
lab*nce 0.0 0.75 0.844

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.0 (1.0)
cmyn3* 0.75 1.0 0.0 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 26.48 28.72 -11.77
LAB*LABa 26.48 28.72 -11.77
LAB*TCHa 25.01 35.99 322.71

relative CIELAB lab*
lab*lab 0.109 0.398 -0.302
lab*tch 0.25 0.5 0.896
lab*nch 0.0 0.5 0.896
relative Natural Colour (NC)
lab*trj 0.109 0.324 -0.38
lab*tce 0.25 0.5 0.862
lab*nce 0.0 0.5 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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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 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

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 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 83.59 18.06 1.87
LAB*LABa 83.59 18.06 1.87
LAB*TCHa 87.5 18.93 353.66

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 0.932
lab*nce 0.0 0.25 0.972

relative Inform. Technology (IT)
olvi3* 0.75 0.5 0.75 (1.0)
cmyn3* 0.25 0.5 0.25 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 64.24 18.82 -2.08
LAB*LABa 64.24 18.82 -2.08
LAB*TCHa 62.5 18.93 353.66

relative CIELAB lab*
lab*lab 0.5 0.25 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 0.597 0.227 -0.103
lab*tce 0.875 0.25 0.932
lab*nce 0.0 0.25 0.972

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 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 44.89 18.8 -0.73
LAB*LABa 44.89 18.8 -0.73
LAB*TCHa 37.5 18.93 353.66

relative CIELAB lab*
lab*lab 0.347 0.227 -0.103
lab*tch 0.5 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 0.5 0.25 0.932
lab*nce 0.0 0.25 0.972

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 1.0 0.0 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 33.08 37.63 -4.17
LAB*LABa 33.08 37.63 -4.17
LAB*TCHa 25.01 37.96 353.66

relative CIELAB lab*
lab*lab 0.195 0.497 -0.054
lab*tch 0.25 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*trj 0.195 0.454 -0.208
lab*tce 0.25 0.5 0.932
lab*nce 0.0 0.5 0.972

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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.0 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.75 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 59.95 56.14 -3.9
LAB*LABa 59.95 56.14 -3.9
LAB*TCHa 62.5 56.79 353.66

relative CIELAB lab*
lab*lab 0.542 0.745 -0.082
lab*tch 0.625 0.75 0.982
lab*nch 0.0 0.75 0.982
relative Natural Colour (NC)
lab*trj 0.542 0.682 -0.312
lab*tce 0.625 0.75 0.932
lab*nce 0.0 0.75 0.972

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 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.14 75.18 -6.78
LAB*LABa 48.14 75.18 -6.78
LAB*TCHa 50.0 75.71 353.66

relative CIELAB lab*
lab*lab 0.389 0.994 -0.109
lab*tch 0.5 1.0 0.982
lab*nch 0.0 1.0 0.982
relative Natural Colour (NC)
lab*trj 0.389 0.909 -0.416
lab*tce 0.5 1.0 0.932
lab*nce 0.0 1.0 0.972

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 0.5 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 33.08 37.63 -4.17
LAB*LABa 33.08 37.63 -4.17
LAB*TCHa 25.01 37.96 353.66

relative CIELAB lab*
lab*lab 0.292 0.745 -0.082
lab*tch 0.375 0.75 0.982
lab*nch 0.0 0.75 0.982

Input: Colorimetric Reflective System MRS18a

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

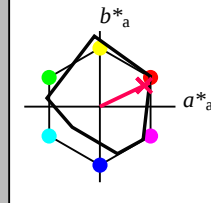
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness t^*



% Gamut

$u^*_{rel} = 92$

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 0.01 0.0
LAB*LABb 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*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 0.0
LAB*LABa 76.06 0.03 0.0
LAB*LABb 75.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.75 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 0.05 0.0
LAB*LABa 56.71 0.05 0.0
LAB*LABb 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 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 0.01
LAB*LABa 37.36 0.07 0.01
LAB*LABb 25.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.01 0.0
LAB*LABa 18.02 0.01 0.0
LAB*LABb 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

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

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 0.5 0.552 (1.0)
cmyn3* 0.0 0.5 0.552 (1.0)
olvi4* 1.0 0.5 0.552 (1.0)
cmyn4* 0.0 0.5 0.552 (1.0)
standard and adapted CIELAB
LAB*LAB 71.76 32.94 15.69
LAB*LABa 71.76 32.94 15.69
LAB*LABb 71.76 32.94 15.69

relative CIELAB lab*
lab*lab 0.694 0.451 0.215
lab*tch 0.75 0.5 0.071
lab*nch 0.0 0.5 0.071
relative Natural Colour (NC)
lab*trj 0.694 0.5 0.0
lab*tce 0.75 0.5 0.0
lab*nce 0.0 0.5 0.071

relative Inform. Technology (IT)
olvi3* 0.75 0.5 0.552 (1.0)
cmyn3* 0.25 0.5 0.552 (1.0)
olvi4* 1.0 0.5 0.552 (1.0)
cmyn4* 0.0 0.5 0.552 (1.0)
standard and adapted CIELAB
LAB*LAB 59.93 49.4 23.54
LAB*LABa 59.93 49.4 23.54
LAB*LABb 62.5 54.67 25.49

relative CIELAB lab*
lab*lab 0.542 0.677 0.323
lab*tch 0.625 0.75 0.071
lab*nch 0.0 0.75 0.071
relative Natural Colour (NC)
lab*trj 0.542 0.75 0.0
lab*tce 0.625 0.75 0.0
lab*nce 0.0 0.75 0.071

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.922 (0.0)
cmyn3* 0.75 0.0 0.922 (0.0)
olvi4* 1.0 0.25 0.328 0.75
cmyn4* 0.0 0.25 0.328 0.75
standard and adapted CIELAB
LAB*LAB 40.59 49.42 23.56
LAB*LABa 40.59 49.42 23.56
LAB*LABb 37.51 54.68 25.5

relative CIELAB lab*
lab*lab 0.292 0.677 0.323
lab*tch 0.375 0.75 0.071
lab*nch 0.0 0.75 0.071
relative Natural Colour (NC)
lab*trj 0.292 0.75 0.0
lab*tce 0.375 0.75 0.0
lab*nce 0.0 0.75 0.071

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.939 (0.0)
cmyn3* 1.0 0.0 0.939 (0.0)
olvi4* 1.0 0.0 0.939 (0.0)
cmyn4* 0.0 0.0 0.939 (0.0)
standard and adapted CIELAB
LAB*LAB 33.07 32.9 15.69
LAB*LABa 33.07 32.9 15.69
LAB*LABb 25.01 36.45 25.5

relative CIELAB lab*
lab*lab 0.195 0.451 0.215
lab*tch 0.25 0.5 0.071
lab*nch 0.0 0.5 0.071
relative Natural Colour (NC)
lab*trj 0.195 0.5 0.0
lab*tce 0.25 0.5 0.071
lab*nce 0.0 0.5 0.071

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.939 (0.0)
cmyn3* 1.0 0.0 0.939 (0.0)
olvi4* 1.0 0.0 0.939 (0.0)
cmyn4* 0.0 0.0 0.939 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.01 0.0
LAB*LABa 18.02 0.01 0.0
LAB*LABb 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 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 Reflective System ORS18

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

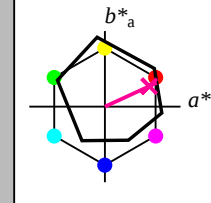
lab^*tch and lab^*nch

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 4.75
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*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 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*tch 0.75 0.0 0.0
lab*nch 0.25 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 0.25 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.23 2.14
LAB*LABa 56.71 0.23 2.14
LAB*LABb 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.01
LAB*LABa 37.36 0.07 0.01
LAB*LABb 25.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.939 (0.0)
cmyn3* 1.0 0.0 0.939 (0.0)
olvi4* 1.0 0.0 0.939 (0.0)
cmyn4* 0.0 0.0 0.939 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.01 0.0
LAB*LABa 18.02 0.01 0.0
LAB*LABb 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.939 (0.0)
cmyn3* 1.0 0.0 0.939 (0.0)
olvi4* 1.0 0.0 0.939 (0.0)
cmyn4* 0.0 0.0 0.939 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.01 0.0
LAB*LABa 18.02 0.01 0.0
LAB*LABb 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 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

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
CLMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
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 0.5 0.661 (1.0)
cmyn3* 0.0 0.5 0.661 (1.0)
olvi4* 1.0 0.5 0.661 (1.0)
cmyn4* 0.0 0.5 0.661 (1.0)
standard and adapted CIELAB
LAB*LAB 71.7 34.27 15.76
LAB*LABa 71.7 34.27 15.76
LAB*LABb 75.00 37.72 24.69

relative CIELAB lab*
lab*lab 0.694 0.454 0.209
lab*tch 0.75 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*trj 0.694 0.5 0.0
lab*tce 0.75 0.5 0.069
lab*nce 0.0 0.5 0.069

relative Inform. Technology (IT)
olvi3* 0.75 0.5 0.589 (1.0)
cmyn3* 0.25 0.5 0.589 (1.0)
olvi4* 1.0 0.5 0.589 (1.0)
cmyn4* 0.0 0.5 0.589 (1.0)
standard and adapted CIELAB
LAB*LAB 59.85 51.12 26.0
LAB*LABa 59.85 51.12 26.0
LAB*LABb 62.5 56.59 24.7

relative CIELAB lab*
lab*lab 0.541 0.681 0.313
lab*tch 0.625 0.75 0.069
lab*nch 0.0 0.75 0.069
relative Natural Colour (NC)
lab*trj 0.541 0.75 0.0
lab*tce 0.625 0.75 0.0
lab*nce 0.0 0.75 0.069

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.939 (0.0)
cmyn3* 0.75 0.0 0.939 (0.0)
olvi4* 1.0 0.25 0.328 0.75
cmyn4* 0.0 0.25 0.328 0.75
standard and adapted CIELAB
LAB*LAB 40.59 49.42 23.56
LAB*LABa 40.59 49.42 23.56
LAB*LABb 37.51 54.68 25.5

relative CIELAB lab*
lab*lab 0.292 0.677 0.323
lab*tch 0.375 0.75 0.071
lab*nch 0.0 0.75 0.071
relative Natural Colour (NC)
lab*trj 0.292 0.75 0.0
lab*tce 0.375 0.75 0.071
lab*nce 0.0 0.75 0.071

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.939 (0.0)
cmyn3* 1.0 0.0 0.939 (0.0)
olvi4* 1.0 0.0 0.939 (0.0)
cmyn4* 0.0 0.0 0.939 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.01 0.0
LAB*LABa 18.02 0.01 0.0
LAB*LABb 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.939 (0.0)
cmyn3* 1.0 0.0 0.939 (0.0)
olvi4* 1.0 0.0 0.939 (0.0)
cmyn4* 0.0 0.0 0.939 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.01 0.0
LAB*LABa 18.02 0.01 0.0
LAB*LABb 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.5 0.589 (1.0)
cmyn3* 0.25 0.5 0.589 (1.0)
olvi4* 1.0 0.5 0.589 (1.0)
cmyn4* 0.0 0.5 0.589 (1.0)
standard and adapted CIELAB
LAB*LAB 59.85 51.12 26.0
LAB*LABa 59.85 51.12 26.0
LAB*LABb 62.5 56.59 24.7

relative CIELAB lab*
lab*lab 0.541 0.681 0.313
lab*tch 0.625 0.75 0.069
lab*nch 0.0 0.75 0.069
relative Natural Colour (NC)
lab*trj 0.541 0.75 0.0
lab*tce 0.625 0.75 0.069
lab*nce 0.0 0.75 0.069

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.939 (0.0)
cmyn3* 0.75 0.0 0.939 (0.0)
olvi4* 1.0 0.25 0.328 0.75
cmyn4* 0.0 0.25 0.328 0.75
standard and adapted CIELAB
LAB*LAB 40.59 49.42 23.56
LAB*LABa 40.59 49.42 23.56
LAB*LABb 37.51 54.68 25.5

relative CIELAB lab*
lab*lab 0.292 0.677 0.323
lab*tch 0.375 0.75 0.071
lab*nch 0.0 0.75 0.071
relative Natural Colour (NC)
lab*trj 0.292 0.75 0.0
lab*tce 0.375 0.75 0.071
lab*nce 0.0 0.75 0.071

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.939 (0.0)
cmyn3* 1.0 0.0 0.939 (0.0)
olvi4* 1.0 0.0 0.939 (0.0)
cmyn4* 0.0 0.0 0.939 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.01 0.0
LAB*LABa 18.02 0.01 0.0
LAB*LABb 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0

www.ps.bam.de/UE56/10Q/Q56E07FP.PS/.PDF; linearized output
F: Output Linearization (OL) data UE56/10Q/Q56E07FP.DAT in File (F)

Input: Colorimetric Reflective System MRS18a

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

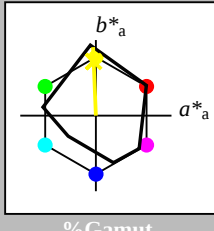
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 91 92

rgb*Ma: 1.0 0.95 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 92$

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*Lab 95.41 0.01 0.0
LAB*TCh 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*tr 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 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 0.0
LAB*Lab 76.06 0.03 0.0
LAB*TCh 75.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 56.71 0.05 0.0
LAB*Lab 56.71 0.05 0.0
LAB*TCh 50.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 37.36 0.07 0.0
LAB*Lab 37.36 0.07 0.0
LAB*TCh 25.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 18.02 0.02 0.0
LAB*Lab 18.02 0.02 0.0
LAB*TCh 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 -
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

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 0.988 0.75 (1.0)
cmyn3* 0.0 0.012 0.25 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 93.73 -0.91 22.65
LAB*Lab 93.73 -0.91 22.65
LAB*TCh 97.5 22.67 92.33

relative CIELAB lab*
lab*lab 0.978 -0.009 0.25
lab*tch 0.875 0.25 2.257
lab*nch 0.0 0.25 2.257
relative Natural Colour (NC)
lab*tr 0.978 0.0 0.25
lab*tce 0.875 0.25 2.257
lab*nce 0.0 0.25 2.257

relative Inform. Technology (IT)
olvi3* 0.75 0.726 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 74.38 -0.88 22.66
LAB*Lab 74.38 -0.88 22.66
LAB*TCh 62.5 22.67 92.33

relative CIELAB lab*
lab*lab 0.726 -0.009 0.25
lab*tch 0.625 0.25 2.256
lab*nch 0.0 0.25 2.256
relative Natural Colour (NC)
lab*tr 0.726 0.0 0.25
lab*tce 0.625 0.25 2.256
lab*nce 0.0 0.25 2.256

relative Inform. Technology (IT)
olvi3* 0.488 0.22 1.0
cmyn3* 0.5 0.512 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 55.03 -0.86 22.67
LAB*Lab 55.03 -0.86 22.67
LAB*TCh 37.5 22.67 92.33

relative CIELAB lab*
lab*lab 0.488 0.22 1.0
lab*tch 0.375 0.25 2.256
lab*nch 0.0 0.25 2.256
relative Natural Colour (NC)
lab*tr 0.488 0.0 0.25
lab*tce 0.375 0.25 2.256
lab*nce 0.0 0.25 2.256

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 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 33.58 -0.84 22.67
LAB*Lab 33.58 -0.84 22.67
LAB*TCh 25.01 22.67 92.33

relative CIELAB lab*
lab*lab 0.228 -0.009 0.25
lab*tch 0.125 0.25 2.256
lab*nch 0.0 0.25 2.256
relative Natural Colour (NC)
lab*tr 0.228 0.0 0.25
lab*tce 0.125 0.25 2.256
lab*nce 0.0 0.25 2.256

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 1.0 0.964 0.25 (1.0)
cmyn3* 0.0 0.036 0.75 (0.0)
olvi4* 1.0 0.964 0.25 (1.0)
cmyn4* 0.0 0.036 0.75 (0.0)
standard and adapted CIELAB
LAB*Lab 90.38 -2.75 67.96
LAB*Lab 90.38 -2.75 67.96
LAB*TCh 62.5 68.02 92.34

relative CIELAB lab*
lab*lab 0.932 -0.03 0.749
lab*tch 0.625 0.75 2.256
lab*nch 0.0 0.75 2.256
relative Natural Colour (NC)
lab*tr 0.932 0.0 0.75
lab*tce 0.625 0.75 2.256
lab*nce 0.0 0.75 2.256

relative Inform. Technology (IT)
olvi3* 0.75 0.714 0.0 (1.0)
cmyn3* 0.25 0.274 0.75 (0.0)
olvi4* 1.0 0.964 0.25 (1.0)
cmyn4* 0.0 0.036 0.75 (0.0)
standard and adapted CIELAB
LAB*Lab 72.71 -1.84 45.31
LAB*Lab 72.71 -1.84 45.31
LAB*TCh 50.0 45.35 92.33

relative CIELAB lab*
lab*lab 0.714 -0.019 0.5
lab*tch 0.5 0.5 2.256
lab*nch 0.0 0.5 2.256
relative Natural Colour (NC)
lab*tr 0.714 0.0 0.5
lab*tce 0.5 0.5 2.256
lab*nce 0.0 0.5 2.256

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 56.71 0.23 21.4
LAB*Lab 56.71 0.23 21.4
LAB*TCh 50.0 0.01 -

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

$n^* = 0.25$

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 0.0
LAB*Lab 37.36 0.07 0.0
LAB*TCh 25.00 0.01 -

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

$n^* = 0.00$

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 92/360 = 0.255$

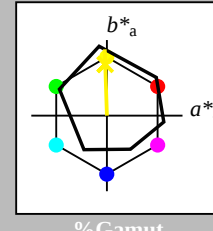
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

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 4.75
LAB*Lab 95.41 -0.97 4.75
LAB*TCh 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*tr 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 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 -0.6 3.44
LAB*Lab 76.06 -0.6 3.44
LAB*TCh 75.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 56.71 0.23 21.4
LAB*Lab 56.71 0.23 21.4
LAB*TCh 50.0 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*Lab 56.71 0.23 21.4
LAB*Lab 56.71 0.23 21.4
LAB*TCh 50.0 0.01 -

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

$n^* = 0.25$

relative Inform. Technology (IT)
olvi3* 0.75 0.725 0.5 (1.0)
cmyn3* 0.25 0.275 0.5 (0.0)
olvi4* 1.0 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 73.75 -1.26 25.22
LAB*Lab 73.75 -1.26 25.22
LAB*TCh 62.5 21.94 91.84

relative CIELAB lab*
lab*lab 0.725 0.5 0.5 (1.0)
lab*tch 0.625 0.25 2.255
lab*nch 0.0 0.25 2.255
relative Natural Colour (NC)
lab*tr 0.725 0.0 0.25
lab*tce 0.625 0.25 2.255
lab*nce 0.0 0.25 2.255

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 0.0
LAB*Lab 37.36 0.07 0.0
LAB*TCh 25.00 0.01 -

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

$n^* = 0.00$

relative Inform. Technology (IT)
olvi3* 0.75 0.701 0.25 (1.0)
cmyn3* 0.25 0.299 0.75 (0.0)
olvi4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*Lab 71.45 -1.4 43.85
LAB*Lab 71.45 -1.4 43.85
LAB*TCh 50.0 43.87 91.84

relative CIELAB lab*
lab*lab 0.69 -0.015 0.5
lab*tch 0.5 0.5 2.255
lab*nch 0.0 0.5 2.255
relative Natural Colour (NC)
lab*tr 0.69 0.0 0.5
lab*tce 0.5 0.5 2.255
lab*nce 0.0 0.5 2.255

relative Inform. Technology (IT)
olvi3* 0.5 0.451 0.0 (1.0)
cmyn3* 0.5 0.525 0.75 (0.0)
olvi4* 1.0 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*Lab 54.4 -0.89 23.92
LAB*Lab 54.4 -0.89 23.92
LAB*TCh 37.5 21.94 91.84

relative CIELAB lab*
lab*lab 0.47 -0.007 0.25
lab*tch 0.375 0.25 2.255
lab*nch 0.0 0.25 2.255
relative Natural Colour (NC)
lab*tr 0.47 0.0 0.25
lab*tce 0.375 0.25 2.255
lab*nce 0.0 0.25 2.255

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.775 1.0 (0.0)
olvi4* 1.0 0.995 0.5 (1.0)
cmyn4* 0.0 0.005 0.5 (0.0)
standard and adapted CIELAB
LAB*Lab 32.1 45.68
LAB*Lab 32.1 45.68
LAB*TCh 25.01 43.87 91.84

relative CIELAB lab*
lab*lab 0.44 -0.015 0.5
lab*tch 0.25 0.5 2.255
lab*nch 0.0 0.5 2.255
relative Natural Colour (NC)
lab*tr 0.44 0.0 0.5
lab*tce 0.25 0.5 2.255
lab*nce 0.0 0.5 2.255

$n^* = 0.50$

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
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 0.951 0.5 (1.0)
cmyn3* 0.0 0.049 0.5 (0.0)
olvi4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*Lab 90.8 -2.3 48.29
LAB*Lab 90.8 -2.3 48.29
LAB*TCh 90.8 -1.41 43.85

relative CIELAB lab*
lab*lab 0.94 -0.015 0.5
lab*tch 0.75 0.5 2.255
lab*nch 0.0 0.5 2.255
relative Natural Colour (NC)
lab*tr 0.94 0.0 0.5
lab*tce 0.75 0.5 2.255
lab*nce 0.0 0.5 2.255

relative Inform. Technology (IT)
olvi3* 0.75 0.706 0.0 (1.0)
cmyn3* 0.25 0.294 0.75 (0.0)
olvi4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*Lab 71.45 -1.

Input: Colorimetric Reflective System MRS18a

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

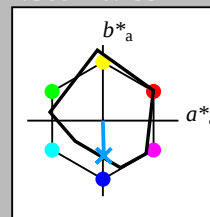
lab^*ch and lab^*nch

D65: hue B

LCH*Ma: 40 49 272

rgb*Ma: 0.0 0.36 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*TCHa 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*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)
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 0.0
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.82 0.007 -0.249
lab*ch 0.875 0.25 0.755
lab*nch 0.0 0.25 0.755
relative Natural Colour (NC)
lab*trj 0.82 0.0 -0.249
lab*trc 0.875 0.25 0.755
lab*ncc 0.0 0.25 0.755

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 67.55 0.74 -24.71
LAB*LABa 67.55 0.7 0.0
LAB*TCHa 75.00 24.74 271.63

relative CIELAB lab*
lab*lab 0.64 0.014 -0.499
lab*ch 0.75 0.5 0.755
lab*nch 0.0 0.5 0.755
relative Natural Colour (NC)
lab*trj 0.64 0.0 -0.499
lab*trc 0.75 0.5 0.755
lab*ncc 0.0 0.5 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)
standard and adapted CIELAB
LAB*LAB 56.71 0.05 0.0
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 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)
olvi3* 0.25 0.432 0.75 (1.0)
cmyn3* 0.75 0.568 0.25 (0.0)
olvi4* 0.5 0.682 1.0 0.755
cmyn4* 0.5 0.318 0.0 0.25
standard and adapted CIELAB
LAB*LAB 48.21 0.77 -24.71
LAB*LABa 48.21 0.71 -24.73
LAB*TCHa 50.00 24.75 271.64

relative CIELAB lab*
lab*lab 0.46 0.021 -0.749
lab*ch 0.625 0.75 0.755
lab*nch 0.0 0.75 0.755
relative Natural Colour (NC)
lab*trj 0.46 0.0 -0.749
lab*trc 0.625 0.75 0.755
lab*ncc 0.0 0.75 0.755

relative Inform. Technology (IT)
olvi3* 0.0 0.365 1.0 (1.0)
cmyn3* 1.0 0.635 0.0 (0.0)
olvi4* 0.0 0.365 1.0 0.5
cmyn4* 0.0 0.635 0.0 0.5
standard and adapted CIELAB
LAB*LAB 39.71 1.49 -49.43
LAB*LABa 39.71 1.41 -49.45
LAB*TCHa 50.00 49.48 271.64

relative CIELAB lab*
lab*lab 0.28 0.029 -0.998
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.28 0.0 -0.998
lab*trc 0.5 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.727 0.25 (1.0)
cmyn3* 0.75 0.273 0.75 (0.0)
olvi4* 0.25 0.524 1.0 0.755
cmyn4* 0.75 0.476 0.0 0.25
standard and adapted CIELAB
LAB*LAB 34.28 1.14 -37.07
LAB*LABa 34.28 1.06 -37.09
LAB*TCHa 62.5 37.11 271.63

relative CIELAB lab*
lab*lab 0.46 0.021 -0.749
lab*ch 0.625 0.75 0.755
lab*nch 0.0 0.75 0.755
relative Natural Colour (NC)
lab*trj 0.46 0.0 -0.749
lab*trc 0.625 0.75 0.755
lab*ncc 0.0 0.75 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)
standard and adapted CIELAB
LAB*LAB 37.36 0.07 0.01
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.3 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 0.3 0.0 0.0
lab*trc 0.75 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.182 0.5 (1.0)
cmyn3* 1.0 0.818 0.5 (0.0)
olvi4* 0.5 0.684 1.0 0.5
cmyn4* 0.5 0.316 0.0 0.5
standard and adapted CIELAB
LAB*LAB 28.86 0.79 -24.72
LAB*LABa 28.86 0.71 -24.72
LAB*TCHa 37.5 12.37 271.64

relative CIELAB lab*
lab*lab 0.21 0.021 -0.749
lab*ch 0.375 0.75 0.755
lab*nch 0.0 0.75 0.755
relative Natural Colour (NC)
lab*trj 0.21 0.0 -0.749
lab*trc 0.375 0.75 0.755
lab*ncc 0.0 0.75 0.755

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

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

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

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

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

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

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

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

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

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

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

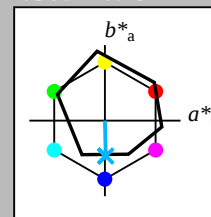
lab^*ch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 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	65.37	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
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 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*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)
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*TCHa 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.82 0.006 -0.249
lab*ch 0.875 0.25 0.754
lab*nch 0.0 0.25 0.754
relative Natural Colour (NC)
lab*trj 0.82 0.0 -0.249
lab*trc 0.875 0.25 0.754
lab*ncc 0.0 0.25 0.754

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 62.65 0.27 -11.17
LAB*LABa 62.65 0.2 0.0
LAB*TCHa 87.5 11.18 271.39

relative CIELAB lab*
lab*lab 0.654 0.012 -0.499
lab*ch 0.75 0.5 0.754
lab*nch 0.0 0.5 0.754
relative Natural Colour (NC)
lab*trj 0.654 0.0 -0.499
lab*trc 0.75 0.5 0.754
lab*ncc 0.0 0.5 0.754

relative Inform. Technology (IT)
olvi3* 0.25 0.432 0.75 (1.0)
cmyn3* 0.75 0.568 0.25 (0.0)
olvi4* 0.5 0.682 1.0 0.755
cmyn4* 0.5 0.318 0.0 0.25
standard and adapted CIELAB
LAB*LAB 48.21 0.77 -24.71
LAB*LABa 48.21 0.71 -24.73
LAB*TCHa 50.00 24.75 271.64

relative CIELAB lab*
lab*lab 0.46 0.021 -0.749
lab*ch 0.625 0.75 0.755
lab*nch 0.0 0.75 0.755
relative Natural Colour (NC)
lab*trj 0.46 0.0 -0.749
lab*trc 0.625 0.75 0.755
lab*ncc 0.0 0.75 0.755

relative Inform. Technology (IT)
olvi3* 0.0 0.365 1.0 (1.0)
cmyn3* 1.0 0.635 0.0 (0.0)
olvi4* 0.0 0.365 1.0 0.5
cmyn4* 0.0 0.635 0.0 0.5
standard and adapted CIELAB
LAB*LAB 39.71 1.49 -49.43
LAB*LABa 39.71 1.41 -49.45
LAB*TCHa 50.00 49.48 271.64

relative CIELAB lab*
lab*lab 0.28 0.029 -0.998
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.28 0.0 -0.998
lab*trc 0.5 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 0.05 0.0
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 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)
olvi3* 0.0 0.182 0.5 (1.0)
cmyn3* 1.0 0.818 0.5 (0.0)
olvi4* 0.5 0.684 1.0 0.5
cmyn4* 0.5 0.316 0.0 0.5
standard and adapted CIELAB
LAB*LAB 28.86 0.79 -24.72
LAB*LABa 28.86 0.71 -24.72
LAB*TCHa 37.5 12.37 271.64