

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 96/360 = 0.268$

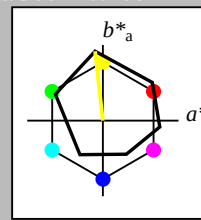
lab^*ch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 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 47.5
LAB*LAB 95.41 0.0 0.0
LAB*TCa 99.99 0.01

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*nce 1.0 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*LAB 76.06 0.0 0.0
LAB*TCa 75.0 0.01

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.75 0.0 0.0
lab*nce 0.75 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*LAB 56.71 0.0 0.0
LAB*TCa 50.0 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*nce 0.5 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 0.13 0.63
LAB*LAB 37.36 0.0 0.0
LAB*TCa 25.0 0.01

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*lrj 0.25 0.0 0.0
lab*nce 0.25 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 0.01 0.46
LAB*LAB 18.02 0.0 0.0
LAB*TCa 0.01 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 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
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

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

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

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olvi4* 1.0 1.0 0.5 1.0
cmyn4* 0.0 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 92.88 -6.06 50.46
LAB*LAB 92.88 -6.06 50.46
LAB*TCa 92.88 -6.06 50.46

relative CIELAB lab*
lab*lab 0.967 -0.055 0.497
lab*ch 0.75 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*lrj 0.967 -0.048 0.497
lab*nce 0.75 0.5 0.268

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.75 (0.0)
olvi4* 1.0 1.0 0.75 0.75
cmyn4* 0.0 0.0 0.75 0.25
standard and adapted CIELAB
LAB*LAB 74.8 -3.14 26.31
LAB*LAB 74.8 -3.14 26.31
LAB*TCa 62.5 23.09 96.39

relative CIELAB lab*
lab*lab 0.734 -0.024 0.249
lab*ch 0.625 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*lrj 0.734 -0.024 0.249
lab*nce 0.625 0.25 0.268

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 0.5 0.5
cmyn4* 0.0 0.0 0.5 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LAB 56.71 -0.23 2.14
LAB*TCa 50.0 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*nce 0.5 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 0.25 0.25
cmyn4* 0.0 0.0 0.25 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.13 0.63
LAB*LAB 37.36 0.0 0.0
LAB*TCa 25.0 0.01

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*lrj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.25 (1.0)
cmyn3* 0.0 0.0 0.25 (0.0)
olvi4* 1.0 1.0 0.25 1.0
cmyn4* 0.0 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 91.62 -8.6 73.32
LAB*LAB 91.62 -8.6 73.32
LAB*TCa 62.5 69.25 96.39

relative CIELAB lab*
lab*lab 0.951 -0.082 0.745
lab*ch 0.625 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*lrj 0.951 -0.073 0.746
lab*nce 0.625 0.75 0.268

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olvi4* 1.0 1.0 0.75 0.0
cmyn4* 0.0 0.0 0.75 0.0
standard and adapted CIELAB
LAB*LAB 72.28 -8.23 72.01
LAB*LAB 72.28 -8.23 72.01
LAB*TCa 50.0 0.01

relative CIELAB lab*
lab*lab 0.701 -0.082 0.745
lab*ch 0.375 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*lrj 0.701 -0.073 0.746
lab*nce 0.375 0.75 0.268

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 1.0 1.0 0.5 0.0
cmyn4* 0.0 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 53.21 0.4 0.0
LAB*LAB 53.21 0.4 0.0
LAB*TCa 50.0 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*nce 0.5 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.75 0.75 0.0 (0.0)
olvi4* 1.0 1.0 0.25 0.0
cmyn4* 0.0 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*LAB 32.11 0.0 0.0
LAB*TCa 25.0 0.01

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*lrj 0.25 0.0 0.0
lab*nce 0.25 0.0 0.0

$n^* = 0.25$

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.75 0.75 0.0 (0.0)
olvi4* 1.0 1.0 0.25 0.0
cmyn4* 0.0 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LAB 11.01 0.0 0.0
LAB*TCa 0.0 0.01

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 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 0.0 (0.0)
olvi4* 1.0 1.0 0.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*TCa 0.0 0.01

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

$n^* = 0.00$

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

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*nce 1.0 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 1.0 0.25
standard and adapted CIELAB
LAB*LAB 74.31 0.0 0.0
LAB*LAB 74.31 0.0 0.0
LAB*TCa 75.0 0.01

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.75 0.0 0.0
lab*nce 0.75 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 0.5 0.5
standard and adapted CIELAB
LAB*LAB 53.21 0.4 0.0
LAB*LAB 53.21 0.4 0.0
LAB*TCa 50.0 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*nce 0.5 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 0.25 0.25
cmyn4* 0.0 0.0 0.25 0.75
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*LAB 32.11 0.0 0.0
LAB*TCa 25.0 0.01

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*lrj 0.25 0.0 0.0
lab*nce 0.25 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 0.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*TCa 0.0 0.01

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

$n^* = 1.0$

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 91/360 = 0.253$

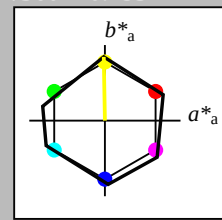
lab^*ch and lab^*nch

D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 119$

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

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 1.0 0.0 0.0
lab*nce 1.0 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 74.31 0.0 0.0
LAB*LAB 74.31 0.0 0.0
LAB*TCa 75.0 0.01

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.75 0.0 0.0
lab*nce 0.75 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 0.5 0.5
standard and adapted CIELAB
LAB*LAB 53.21 0.4 0.0
LAB*LAB 53.21 0.4 0.0
LAB*TCa 50.0 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*lrj 0.5 0.0 0.0
lab*nce 0.5 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 0.25 0.25
cmyn4* 0.0 0.0 0.25 0.75
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*LAB 32.11 0.0 0.0
LAB*TCa 25.0 0.01

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*lrj 0.25 0.0 0.0
lab*nce 0.25 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 0.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*TCa 0.0 0.01

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

$n^* = 1.0$

NRS11; adapted (a) CIELAB data

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

RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olvi4* 1.0 1.0 0.5 1.0
cmyn4* 0.0 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 74.3 -0.72 42.18
LAB*LAB 74.3 -0.72 42.18
LAB*TCa 75.0 42.19 91.03

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*lrj 0.75 0.0 0.0
lab*nce 0.75 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.75 (0.0)
olvi4* 1.0 1.0 0.75 0.75
cmyn4* 0.0 0.0 0.75 0.25
standard and adapted CIELAB
LAB*LAB 53.2 -0.72 42.18
LAB*LAB 53.2 -0.72 42.18
LAB*TCa 50.0 42.19 91

Input: Colorimetric Reflective System ORS18

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

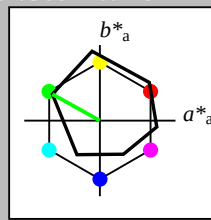
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



relative Inform. Technology (IT)
 olv3* 1.0 1.0 1.0 (1.0)
 cmyn3* 0.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 1.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 95.41 -0.97 4.75
 LAB*LABa 95.41 0.0 0.0
 LAB*LABb 95.41 0.0 0.0
 LAB*LABc 95.41 0.0 0.0
 relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*tch 1.0 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 1.0 0.0 0.0
 lab*tce 1.0 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.75 0.75 0.75 (1.0)
 cmyn3* 0.25 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 0.75
 cmyn4* 0.0 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 76.06 -0.6 3.44
 LAB*LABa 76.06 0.0 0.0
 LAB*LABb 76.06 0.0 0.0
 LAB*LABc 76.06 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.75 0.0 0.0
 lab*tch 0.75 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.75 0.0 0.0
 lab*tce 0.75 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 56.71 -0.23 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*LABb 56.71 0.0 0.0
 LAB*LABc 56.71 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.5 0.0 0.0
 lab*tce 0.5 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.13 0.83
 LAB*LABa 37.36 0.0 0.0
 LAB*LABb 37.36 0.0 0.0
 LAB*LABc 37.36 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.25 0.0 0.0
 lab*tch 0.25 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.46
 LAB*LABa 18.02 0.0 0.46
 LAB*LABb 18.02 0.0 0.46
 LAB*LABc 18.02 0.0 0.46
 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	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.59	-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)
 olv3* 0.5 1.0 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 0.5 1.0 0.5 0.5
 cmyn4* 0.5 0.5 0.5 0.5
 standard and adapted CIELAB
 LAB*LAB 73.15 -31.94 20.73
 LAB*LABa 73.15 -31.94 20.73
 LAB*LABb 73.15 -31.94 20.73
 LAB*LABc 73.15 -31.94 20.73
 relative CIELAB lab*
 lab*lab 0.712 -0.436 0.243
 lab*tch 0.712 -0.436 0.243
 lab*nch 0.0 0.5 0.419
 relative Natural Colour (NC)
 lab*trj 0.712 -0.436 0.243
 lab*tce 0.712 -0.436 0.243
 lab*nce 0.0 0.5 0.419

relative Inform. Technology (IT)
 olv3* 0.25 0.75 0.25 (1.0)
 cmyn3* 0.75 0.25 0.75 (0.0)
 olv4* 0.5 1.0 0.5 0.75
 cmyn4* 0.5 0.75 0.5 0.25
 standard and adapted CIELAB
 LAB*LAB 53.8 -31.57 19.42
 LAB*LABa 53.8 -31.57 19.42
 LAB*LABb 53.8 -31.57 19.42
 LAB*LABc 53.8 -31.57 19.42
 relative CIELAB lab*
 lab*lab 0.462 -0.478 0.144
 lab*tch 0.462 -0.478 0.144
 lab*nch 0.0 0.5 0.419
 relative Natural Colour (NC)
 lab*trj 0.462 -0.478 0.144
 lab*tce 0.462 -0.478 0.144
 lab*nce 0.0 0.5 0.419

relative Inform. Technology (IT)
 olv3* 0.0 0.75 0.0 (1.0)
 cmyn3* 0.75 0.0 0.75 (0.0)
 olv4* 0.5 1.0 0.5 0.0
 cmyn4* 0.5 0.75 0.5 0.25
 standard and adapted CIELAB
 LAB*LAB 34.46 -31.2 18.11
 LAB*LABa 34.46 -31.2 18.11
 LAB*LABb 34.46 -31.2 18.11
 LAB*LABc 34.46 -31.2 18.11
 relative CIELAB lab*
 lab*lab 0.319 -0.654 0.365
 lab*tch 0.319 -0.654 0.365
 lab*nch 0.0 0.5 0.419
 relative Natural Colour (NC)
 lab*trj 0.319 -0.654 0.365
 lab*tce 0.319 -0.654 0.365
 lab*nce 0.0 0.5 0.419

relative Inform. Technology (IT)
 olv3* 0.0 0.5 0.0 (1.0)
 cmyn3* 0.5 0.0 0.5 (0.0)
 olv4* 0.5 1.0 0.5 0.0
 cmyn4* 0.5 0.5 0.5 0.5
 standard and adapted CIELAB
 LAB*LAB 26.24 -15.68 8.73
 LAB*LABa 26.24 -15.68 8.73
 LAB*LABb 26.24 -15.68 8.73
 LAB*LABc 26.24 -15.68 8.73
 relative CIELAB lab*
 lab*lab 0.106 -0.217 0.122
 lab*tch 0.106 -0.217 0.122
 lab*nch 0.0 0.5 0.419
 relative Natural Colour (NC)
 lab*trj 0.106 -0.217 0.122
 lab*tce 0.106 -0.217 0.122
 lab*nce 0.0 0.5 0.419

$n^* = 0.50$

relative Inform. Technology (IT)
 olv3* 0.25 0.5 0.25 (1.0)
 cmyn3* 0.75 0.25 0.75 (0.0)
 olv4* 0.5 1.0 0.5 0.5
 cmyn4* 0.5 0.75 0.5 0.25
 standard and adapted CIELAB
 LAB*LAB 62.02 -47.89 26.21
 LAB*LABa 62.02 -47.89 26.21
 LAB*LABb 62.02 -47.89 26.21
 LAB*LABc 62.02 -47.89 26.21
 relative CIELAB lab*
 lab*lab 0.569 -0.745 0.419
 lab*tch 0.569 -0.745 0.419
 lab*nch 0.0 0.5 0.419
 relative Natural Colour (NC)
 lab*trj 0.569 -0.745 0.419
 lab*tce 0.569 -0.745 0.419
 lab*nce 0.0 0.5 0.419

relative Inform. Technology (IT)
 olv3* 0.0 0.25 0.0 (1.0)
 cmyn3* 0.25 0.0 0.25 (0.0)
 olv4* 0.5 1.0 0.5 0.0
 cmyn4* 0.5 0.25 0.5 0.25
 standard and adapted CIELAB
 LAB*LAB 42.68 -47.06 27.41
 LAB*LABa 42.68 -47.06 27.41
 LAB*LABb 42.68 -47.06 27.41
 LAB*LABc 42.68 -47.06 27.41
 relative CIELAB lab*
 lab*lab 0.319 -0.654 0.365
 lab*tch 0.319 -0.654 0.365
 lab*nch 0.0 0.5 0.419
 relative Natural Colour (NC)
 lab*trj 0.319 -0.654 0.365
 lab*tce 0.319 -0.654 0.365
 lab*nce 0.0 0.5 0.419

relative Inform. Technology (IT)
 olv3* 0.0 0.25 0.0 (1.0)
 cmyn3* 0.25 0.0 0.25 (0.0)
 olv4* 0.5 1.0 0.5 0.0
 cmyn4* 0.5 0.25 0.5 0.25
 standard and adapted CIELAB
 LAB*LAB 37.51 53.9 150.91
 LAB*LABa 37.51 53.9 150.91
 LAB*LABb 37.51 53.9 150.91
 LAB*LABc 37.51 53.9 150.91
 relative CIELAB lab*
 lab*lab 0.319 -0.654 0.365
 lab*tch 0.319 -0.654 0.365
 lab*nch 0.0 0.5 0.419
 relative Natural Colour (NC)
 lab*trj 0.319 -0.654 0.365
 lab*tce 0.319 -0.654 0.365
 lab*nce 0.0 0.5 0.419

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0
 standard and adapted CIELAB
 LAB*LAB 11.01 0.0 0.0
 LAB*LABa 11.01 0.0 0.0
 LAB*LABb 11.01 0.0 0.0
 LAB*LABc 11.01 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*tch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.0 0.0 0.0
 lab*tce 0.0 0.0 0.0
 lab*nce 1.0 0.0 0.0

$n^* = 0.00$

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 167/360 = 0.464$

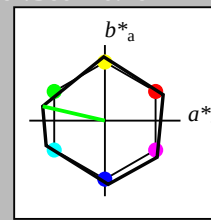
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 84 167

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



relative Inform. Technology (IT)
 olv3* 1.0 1.0 1.0 (1.0)
 cmyn3* 0.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 1.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 95.41 0.0 -0.01
 LAB*LABa 95.41 0.0 0.0
 LAB*LABb 95.41 0.0 0.0
 LAB*LABc 95.41 0.0 0.0
 relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*tch 1.0 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 1.0 0.0 0.0
 lab*tce 1.0 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.75 0.75 0.75 (1.0)
 cmyn3* 0.25 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 0.75
 cmyn4* 0.0 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 74.31 0.0 0.0
 LAB*LABa 74.31 0.0 0.0
 LAB*LABb 74.31 0.0 0.0
 LAB*LABc 74.31 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.75 0.0 0.0
 lab*tch 0.75 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.75 0.0 0.0
 lab*tce 0.75 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 53.21 0.0 0.0
 LAB*LABa 53.21 0.0 0.0
 LAB*LABb 53.21 0.0 0.0
 LAB*LABc 53.21 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.5 0.0 0.0
 lab*tce 0.5 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 32.11 0.0 0.0
 LAB*LABa 32.11 0.0 0.0
 LAB*LABb 32.11 0.0 0.0
 LAB*LABc 32.11 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.25 0.0 0.0
 lab*tch 0.25 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.75 0.0 (1.0)
 cmyn3* 0.75 0.0 0.75 (0.0)
 olv4* 0.5 1.0 0.5 0.0
 cmyn4* 0.5 0.75 0.5 0.25
 standard and adapted CIELAB
 LAB*LAB 32.11 0.0 0.0
 LAB*LABa 32.11 0.0 0.0
 LAB*LABb 32.11 0.0 0.0
 LAB*LABc 32.11 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.25 0.0 0.0
 lab*tch 0.25 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

$n^* = 1.0$

NRS11; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 0.5 1.0 0.5 0.5
 cmyn4* 0.5 0.5 0.5 0.5
 standard and adapted CIELAB
 LAB*LAB 63.75 -20.53 4.74
 LAB*LABa 63.75 -20.53 4.74
 LAB*LABb 63.75 -20.53 4.74
 LAB*LABc 63.75 -20.53 4.74
 relative CIELAB lab*
 lab*lab 0.625 -0.248 -0.016
 lab*tch 0.625 -0.248 -0.016
 lab*nch 0.0 0.5 0.464
 relative Natural Colour (NC)
 lab*trj 0.625 -0.248 -0.016
 lab*tce 0.625 -0.248 -0.016
 lab*nce 0.0 0.5 0.464

relative Inform. Technology (IT)
 olv3* 0.25 0.75 0.25 (1.0)
 cmyn3* 0.75 0.25 0.75 (0.0)
 olv4* 0.5 1.0 0.5 0.75
 cmyn4* 0.5 0.75 0.5 0.25
 standard and adapted CIELAB
 LAB*LAB 53.2 -41.09 9.5
 LAB*LABa 53.2 -41.09 9.5
 LAB*LABb 53.2 -41.09 9.5
 LAB*LABc 53.2 -41.09 9.5
 relative CIELAB lab*
 lab*lab 0.486 0.112
 lab*tch 0.486 0.112
 lab*nch 0.0 0.5 0.464
 relative Natural Colour (NC)
 lab*trj 0.486 0.112
 lab*tce 0.486 0.112
 lab*nce 0.0 0.5 0.464

relative Inform. Technology (IT)
 olv3* 0.0 0.75 0.0 (1.0)
 cmyn3* 0.75 0.0 0.75 (0.0)
 olv4* 0.5 1.0 0.5 0.0
 cmyn4* 0.5 0.75 0.5 0.25
 standard and adapted CIELAB
 LAB*LAB 32.11 0.0 0.0
 LAB*LABa 32.11 0.0 0.0
 LAB*LABb 32.11 0.0 0.0
 LAB*LABc 32.11 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.25 0.0 0.0
 lab*tch 0.25 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
 olv3* 0.0 0.25 0.0 (1.0)
 cmyn3* 0.25 0.0 0.25 (0.0)
 olv4* 0.5 1.0 0.5 0.0
 cmyn4* 0.5 0.25 0.5 0.25
 standard and adapted CIELAB
 LAB*LAB 32.11 0.0 0.0
 LAB*LABa 32.11 0.0 0.0
 LAB*LABb 32.11 0.0 0.0
 LAB*LABc 32.11 0.0 0.0
 relative CIELAB lab*
 lab*lab 0.25 0.0 0.0
 lab*tch 0.25 0.0 0.0
 lab*nch 0.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.25 0.0 0.0
 lab*tce 0.25 0.0 0.0
 lab*nce 0.0 0.0 0.0

$n^* = 0.50$

relative Inform. Technology (IT)
 olv3* 0.25 0.5 0.25 (1.0)
 cmyn3* 0.75 0.25 0.75 (0.0)
 olv4* 0.5 1.0 0.5 0.5
 cmyn4* 0.5 0.75 0.5 0.25
 standard and adapted CIELAB
 LAB*LAB 63.75 -20.53 4.74
 LAB*LABa 63.75 -20.53 4.74
 LAB*LABb 63.75 -20.

Input: Colorimetric Reflective System ORS18

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

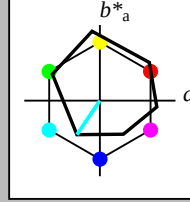
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)
 olv3* 1.0 1.0 1.0 (1.0)
 cmyn3* 0.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 1.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 95.41 -0.97 47.5
 LAB*LABa 95.41 0.0 0.0
 LAB*LABb 99.99 0.01 0.0

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

relative Inform. Technology (IT)
 olv3* 0.75 0.75 0.75 (1.0)
 cmyn3* 0.25 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 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 0.0 0.0
 LAB*LABb 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)
 olv3* 0.5 0.5 0.5 (0.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 56.71 -0.23 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*LABb 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)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.13 0.83
 LAB*LABa 37.36 0.0 0.0
 LAB*LABb 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)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.46
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 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

$n^* = 1.0$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.59	-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)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 0.5 0.5 0.5 1.0
 cmyn4* 0.5 0.5 0.5 0.0
 standard and adapted CIELAB
 LAB*LAB 77.01 -15.16 -19.98
 LAB*LABa 77.01 -15.16 -22.5
 LAB*LABb 75.00 27.15 236.01

relative CIELAB lab*
 lab*lab 0.762 -0.278 -0.413
 lab*tch 0.75 0.5 0.656
 lab*nch 0.0 0.5 0.656
 relative Natural Colour (NC)
 lab*trj 0.762 -0.247 -0.433
 lab*tce 0.75 0.5 0.656
 lab*nce 0.0 0.5 0.656

relative Inform. Technology (IT)
 olv3* 0.25 0.75 0.75 (1.0)
 cmyn3* 0.75 0.25 0.25 (0.0)
 olv4* 0.5 1.0 1.0 0.75
 cmyn4* 0.5 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 57.66 -15.17 -22.5
 LAB*LABa 57.66 -15.17 -22.5
 LAB*LABb 50.00 27.15 236.01

relative CIELAB lab*
 lab*lab 0.512 -0.247 -0.433
 lab*tch 0.5 0.5 0.656
 lab*nch 0.0 0.5 0.656
 relative Natural Colour (NC)
 lab*trj 0.512 -0.247 -0.433
 lab*tce 0.5 0.5 0.656
 lab*nce 0.0 0.5 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.5 0.5 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 0.5 1.0 1.0 0.5
 cmyn4* 0.5 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 48.47 -22.83 -32.16
 LAB*LABa 48.47 -22.83 -32.16
 LAB*LABb 37.51 40.72 236.01

relative CIELAB lab*
 lab*lab 0.394 -0.418 -0.621
 lab*tch 0.375 0.5 0.656
 lab*nch 0.0 1.0 0.656
 relative Natural Colour (NC)
 lab*trj 0.394 -0.371 -0.65
 lab*tce 0.375 0.5 0.656
 lab*nce 0.0 1.0 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.5 0.5 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 0.5 1.0 1.0 0.5
 cmyn4* 0.5 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 48.47 -22.83 -32.16
 LAB*LABa 48.47 -22.83 -32.16
 LAB*LABb 37.51 40.72 236.01

relative CIELAB lab*
 lab*lab 0.262 -0.278 -0.413
 lab*tch 0.25 0.5 0.656
 lab*nch 0.0 1.0 0.656
 relative Natural Colour (NC)
 lab*trj 0.262 -0.247 -0.433
 lab*tce 0.25 0.5 0.656
 lab*nce 0.0 1.0 0.656

$n^* = 0.50$

relative Inform. Technology (IT)
 olv3* 0.25 1.0 1.0 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 0.25 1.0 1.0 0.5
 cmyn4* 0.75 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 67.81 -23.21 -30.86
 LAB*LABa 67.81 -23.21 -30.86
 LAB*LABb 62.5 40.72 236.01

relative CIELAB lab*
 lab*lab 0.642 -0.418 -0.621
 lab*tch 0.625 0.75 0.656
 lab*nch 0.0 0.75 0.656
 relative Natural Colour (NC)
 lab*trj 0.642 -0.371 -0.65
 lab*tce 0.625 0.75 0.656
 lab*nce 0.0 0.75 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.75 0.75 (1.0)
 cmyn3* 0.75 0.25 0.25 (0.0)
 olv4* 0.25 1.0 1.0 0.75
 cmyn4* 0.75 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 57.66 -15.17 -22.5
 LAB*LABa 57.66 -15.17 -22.5
 LAB*LABb 50.00 27.15 236.01

relative CIELAB lab*
 lab*lab 0.512 -0.247 -0.433
 lab*tch 0.5 0.5 0.656
 lab*nch 0.0 0.5 0.656
 relative Natural Colour (NC)
 lab*trj 0.512 -0.247 -0.433
 lab*tce 0.5 0.5 0.656
 lab*nce 0.0 0.5 0.656

relative Inform. Technology (IT)
 olv3* 0.0 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 37.36 -0.13 0.83
 LAB*LABa 37.36 0.0 0.0
 LAB*LABb 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)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.0 0.46
 LAB*LABa 18.02 0.0 0.0
 LAB*LABb 0.01 0.01 -

$n^* = 0.00$

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 203/360 = 0.564$

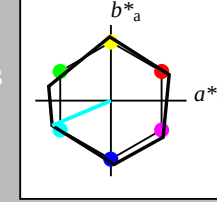
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)
 olv3* 1.0 1.0 1.0 (1.0)
 cmyn3* 0.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 1.0
 cmyn4* 0.0 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 95.41 0.0 -0.01
 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)
 olv3* 0.75 0.75 0.75 (1.0)
 cmyn3* 0.25 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 0.75
 cmyn4* 0.0 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 74.31 0.0 0.0
 LAB*LABa 74.31 0.0 0.0
 LAB*LABb 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)
 olv3* 0.5 0.5 0.5 (0.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 53.21 0.0 0.0
 LAB*LABa 53.21 0.0 0.0
 LAB*LABb 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)
 olv3* 0.25 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 32.11 0.0 0.5
 LAB*LABa 32.11 0.0 0.5
 LAB*LABb 25.01 0.01 -

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

relative Inform. Technology (IT)
 olv3* 0.0 0.25 0.25 (1.0)
 cmyn3* 0.75 0.75 0.75 (0.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 11.01 0.0 0.0
 LAB*LABa 11.01 0.0 0.0
 LAB*LABb 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

$n^* = 1.0$

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

input: $olv^* setrgbcolor$

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

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

% Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 0.5 0.5 0.5 1.0
 cmyn4* 0.5 0.5 0.5 0.0
 standard and adapted CIELAB
 LAB*LAB 74.3 -38.82 -16.48
 LAB*LABa 74.3 -38.82 -16.48
 LAB*LABb 75.00 42.21 203.0

relative CIELAB lab*
 lab*lab 0.75 0.0 0.0
 lab*tch 0.75 0.5 0.564
 lab*nch 0.0 0.5 0.564
 relative Natural Colour (NC)
 lab*trj 0.75 0.0 0.0
 lab*tce 0.75 0.5 0.564
 lab*nce 0.0 0.5 0.564

relative Inform. Technology (IT)
 olv3* 0.25 0.75 0.75 (1.0)
 cmyn3* 0.75 0.25 0.25 (0.0)
 olv4* 0.5 1.0 1.0 0.75
 cmyn4* 0.5 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 53.2 -38.81 -16.47
 LAB*LABa 53.2 -38.81 -16.47
 LAB*LABb 50.00 42.22 203.0

relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*tch 0.5 0.5 0.564
 lab*nch 0.0 0.5 0.564
 relative Natural Colour (NC)
 lab*trj 0.5 0.0 0.0
 lab*tce 0.5 0.5 0.564
 lab*nce 0.0 0.5 0.564

relative Inform. Technology (IT)
 olv3* 0.0 0.5 0.5 (1.0)
 cmyn3* 1.0 0.0 0.0 (0.0)
 olv4* 0.5 1.0 1.0 0.5
 cmyn4* 0.5 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 42.65 -58.23 -24.71
 LAB*LABa 42.65 -58.23 -24.71
 LAB*LABb 37.51 63.32 202.99

relative CIELAB lab*
 lab*lab 0.625 -0.689 -0.292
 lab*tch 0.625 0.75 0.564
 lab*nch 0.0 0.75 0.564
 relative Natural Colour (NC)
 lab*trj 0.625 -0.624 -0.413
 lab*tce 0.625 0.75 0.564
 lab*nce 0.0 0.75 0.564

relative Inform. Technology (IT)
 olv3* 0.0 0.25 0.25 (1.0)
 cmyn3* 1.0 0.25 0.25 (0.0)
 olv4* 0.25 1.0 1.0 0.75
 cmyn4* 0.75 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 32.1 -38.85 -16.48
 LAB*LABa 32.1 -38.85 -16.48
 LAB*LABb 25.01 42.21 203.0

Input: Colorimetric Reflective System ORS18

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

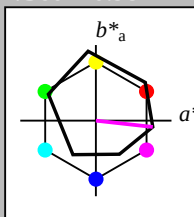
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



% 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	47.5	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	

relative Inform. Technology (IT)

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	0.0	0.0	
LAB*LAB	76.06	0.0	0.0	
LAB*LAB	76.06	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	-0.23	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*LAB	56.71	0.0	0.0	
LAB*LAB	56.71	0.0	0.0	

relative Inform. Technology (IT)

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	37.36	0.13	0.83	
LAB*LAB	37.36	0.0	0.0	
LAB*LAB	37.36	0.0	0.0	
LAB*LAB	37.36	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	18.02	0.01	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	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	18.02	0.01	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	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	18.02	0.01	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	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	18.02	0.01	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	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	18.02	0.01	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	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	18.02	0.01	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	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	71.77	37.63	-1.01	
LAB*LAB	71.77	37.63	-1.01	
LAB*LAB	71.77	37.63	-1.01	
LAB*LAB	71.77	37.63	-1.01	

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	0.5	1.0	1.0
cmyn4*	0.0	0.5	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	

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	0.5	1.0	1.0
cmyn4*	0.0	0.5	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	

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	0.5	1.0	1.0
cmyn4*	0.0	0.5	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	

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	0.5	1.0	1.0
cmyn4*	0.0	0.5	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	

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	0.5	1.0	1.0
cmyn4*	0.0	0.5	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	

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	0.5	1.0	1.0
cmyn4*	0.0	0.5	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	

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	0.5	1.0	1.0
cmyn4*	0.0	0.5	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	

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	0.5	1.0	1.0
cmyn4*	0.0	0.5	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	
LAB*LAB	52.42	37.63	-1.01	

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 325/360 = 0.903$

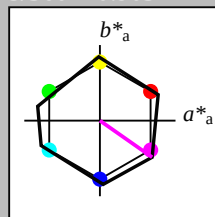
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0
cmyn4*	0.0	0.0	0.0	0.0
standard and adapted CIELAB				
LAB*LAB	95.41	-0.97	47.5	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	

relative Inform. Technology (IT)

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	0.0	0.0	
LAB*LAB	76.06	0.0	0.0	
LAB*LAB	76.06	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	-0.23	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*LAB	56.71	0.0	0.0	
LAB*LAB	56.71	0.0	0.0	

relative Inform. Technology (IT)

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	37.36	0.13	0.83	
LAB*LAB	37.36	0.0	0.0	
LAB*LAB	37.36	0.0	0.0	
LAB*LAB	37.36	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	18.02	0.01	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	18.02	0.0	0.0	

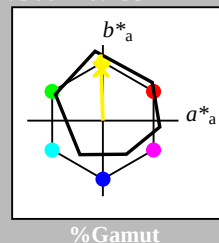
Input: Colorimetric Reflective System ORS18

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^*



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

relative Inform. Technology (IT)
olvi3* 1.0 0.975 0.75 (1.0)
cmyn3* 0.0 0.025 0.25 (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 93.11 -1.64 26.52
LAB*Lab 93.11 -0.7 21.92
LAB*TCa 97.5 21.93 91.86

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*Lab 76.06 0.0 0.0
LAB*TCa 75.0 0.01 -

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 0.975 0.75 0.75
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 73.75 -1.26 25.22
LAB*Lab 73.75 -0.7 21.93
LAB*TCa 62.5 21.94 91.84

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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCa 50.0 0.01 -

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 0.975 0.75 0.5
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 54.4 -0.89 23.92
LAB*Lab 54.4 -0.7 21.93
LAB*TCa 37.5 21.94 91.84

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 0.25
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 37.36 0.13 0.83
LAB*Lab 37.36 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 32.11 -1.55 45.68
LAB*Lab 32.11 -0.7 21.93
LAB*TCa 37.5 21.94 91.84

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 0.25
standard and adapted CIELAB
LAB*LAB 21.92 0.0 0.0
LAB*Lab 21.92 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 21.92 0.0 0.0
LAB*Lab 21.92 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.25
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 25.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 0.0
olvi4* 1.0 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 25.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 0.0
olvi4* 1.0 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 25.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 0.0
olvi4* 1.0 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 25.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 0.0
olvi4* 1.0 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*Lab 18.02 0.0 0.0
LAB*TCa 25.0 0.01 -

ORS18; adapted (a) CIELAB data

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

$g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$

blackness n^*

chromaticness c^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

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triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

triangle lightness t^*

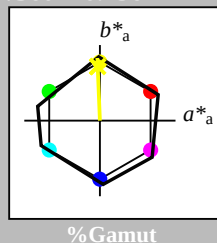
Output: Colorimetric Reflective System NRS11

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

lab^*tch and lab^*nch

D65: hue J
LCH*Ma: 53 83 92
rgb*Ma: 0.98 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 0.0 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*TCa 99.99 0.01 -

relative Inform. Technology (IT)
olvi3* 0.994 1.0 0.75 (1.0)
cmyn3* 0.006 0.0 0.25 (0.0)
olvi4* 0.994 1.0 0.75 1.0
cmyn4* 0.006 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 94.85 -0.81 20.72
LAB*Lab 94.85 -0.82 20.72
LAB*TCa 97.5 20.73 92.31

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 74.31 0.02 0.0
LAB*Lab 74.31 0.0 0.0
LAB*TCa 75.0 0.01 -

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 0.975 0.75 0.75
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*Lab 74.31 0.0 0.0
LAB*TCa 75.0 0.01 -

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 0.975 0.75 0.5
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*Lab 74.31 0.0 0.0
LAB*TCa 75.0 0.01 -

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 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*Lab 74.31 0.0 0.0
LAB*TCa 75.0 0.01 -

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 53.21 0.04 0.0
LAB*Lab 53.21 0.0 0.0
LAB*TCa 50.0 0.01 -

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 0.975 0.75 0.5
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 53.21 0.04 0.0
LAB*Lab 53.21 0.0 0.0
LAB*TCa 50.0 0.01 -

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 0.25
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.25
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

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 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

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 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 0.0
olvi4* 1.0 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

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 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 0.0
olvi4* 1.0 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

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 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 0.0
olvi4* 1.0 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

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 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 0.0
olvi4* 1.0 0.975 0.75 0.25
cmyn4* 0.0 0.025 0.25 0.25
standard and adapted CIELAB
LAB*LAB 32.11 0.0 0.0
LAB*Lab 32.11 0.0 0.0
LAB*TCa 25.0 0.01 -

NRS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$
 $g^*_{C,rel} = 100$

blackness n^*

chromaticness c^*

triangle lightness t^*

triangle lightness t^*

Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 164/360 = 0.457$

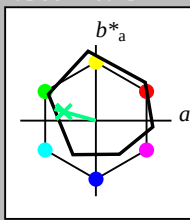
lab^*ch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness t^*



relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 47.5
LAB*LAB 95.41 0.0 0.0
LAB*LAB 99.99 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi4* 0.25 0.25 0.25 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LAB 76.06 0.0 0.0
LAB*LAB 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*ce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LAB 56.71 0.0 0.0
LAB*LAB 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*ce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
olvi4* 0.75 0.75 0.75 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 0.13 0.83
LAB*LAB 37.36 0.0 0.0
LAB*LAB 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.25 0.0 0.0
lab*ce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi4* 1.0 1.0 1.0 (0.0)
olvi5* 1.0 1.0 1.0 (0.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.01 0.46
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi4* 1.0 1.0 1.0 (0.0)
olvi5* 1.0 1.0 1.0 (0.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.01 0.46
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.75 1.0 0.812 (1.0)
olvi4* 0.25 0.0 0.188 (0.0)
olvi5* 0.75 1.0 0.812 (1.0)
olvi6* 0.25 0.0 0.188 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 84.75 -14.46 7.85
LAB*LAB 84.75 -13.69 3.81
LAB*LAB 87.5 14.22 164.46

relative CIELAB lab*
lab*lab 0.862 -0.24 0.067
lab*ch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*tr 0.862 -0.249 0.0
lab*ce 0.875 0.25 0.5
lab*nce 0.0 0.25 0.998

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.41 -14.1 6.55
LAB*LAB 65.41 -13.69 3.81
LAB*LAB 62.5 14.22 164.46

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*ce 0.5 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
olvi4* 0.75 0.75 0.75 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 46.06 -13.73 5.24
LAB*LAB 46.06 -13.69 3.81
LAB*LAB 37.5 14.22 164.46

relative CIELAB lab*
lab*lab 0.362 -0.24 0.067
lab*ch 0.375 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*tr 0.362 -0.249 0.0
lab*ce 0.375 0.25 0.5
lab*nce 0.0 0.25 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi4* 1.0 0.0 0.0 (0.0)
olvi5* 1.0 0.0 0.0 (0.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 35.41 -27.21 8.34
LAB*LAB 35.41 -27.39 7.63
LAB*LAB 25.01 28.44 164.45

relative CIELAB lab*
lab*lab 0.225 -0.481 0.134
lab*ch 0.225 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*tr 0.225 -0.499 0.0
lab*ce 0.225 0.5 0.5
lab*nce 0.0 0.5 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi4* 1.0 0.0 0.0 (0.0)
olvi5* 1.0 0.0 0.0 (0.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 26.71 -13.35 3.84
LAB*LAB 26.71 -13.69 3.82
LAB*LAB 12.5 14.22 164.44

relative CIELAB lab*
lab*lab 0.112 -0.24 0.067
lab*ch 0.125 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*tr 0.112 -0.249 0.0
lab*ce 0.125 0.25 0.5
lab*nce 0.0 0.25 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi4* 1.0 0.0 0.0 (0.0)
olvi5* 1.0 0.0 0.0 (0.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LAB 11.01 0.0 0.0
LAB*LAB 0.0 0.0 0.0

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
QMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.59	-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* 0.5 1.0 0.623 (1.0)
olvi4* 0.5 0.0 0.377 (0.0)
olvi5* 0.5 1.0 0.623 (1.0)
olvi6* 0.5 0.0 0.377 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.1 -27.96 10.94
LAB*LAB 74.1 -27.39 7.62
LAB*LAB 75.0 28.44 164.46

relative CIELAB lab*
lab*lab 0.725 -0.481 0.134
lab*ch 0.75 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*tr 0.725 -0.499 0.0
lab*ce 0.75 0.5 0.5
lab*nce 0.0 0.5 0.998

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.188 (1.0)
olvi4* 0.75 0.25 0.623 (0.0)
olvi5* 0.25 0.75 0.188 (1.0)
olvi6* 0.25 0.0 0.377 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 54.75 -27.6 9.64
LAB*LAB 54.75 -27.39 7.62
LAB*LAB 50.0 28.44 164.46

relative CIELAB lab*
lab*lab 0.475 -0.481 0.134
lab*ch 0.475 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*tr 0.475 -0.499 0.0
lab*ce 0.475 0.5 0.5
lab*nce 0.0 0.5 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.5 0.188 (1.0)
olvi4* 0.5 0.0 0.812 (0.0)
olvi5* 0.0 0.5 0.188 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 35.41 -27.21 8.34
LAB*LAB 35.41 -27.39 7.63
LAB*LAB 25.01 28.44 164.45

relative CIELAB lab*
lab*lab 0.337 -0.721 0.201
lab*ch 0.375 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*tr 0.337 -0.749 0.0
lab*ce 0.375 0.75 0.5
lab*nce 0.0 0.75 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.188 (1.0)
olvi4* 0.25 0.0 0.812 (0.0)
olvi5* 0.0 0.25 0.188 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 26.71 -13.35 3.84
LAB*LAB 26.71 -13.69 3.82
LAB*LAB 12.5 14.22 164.44

relative CIELAB lab*
lab*lab 0.112 -0.24 0.067
lab*ch 0.125 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*tr 0.112 -0.249 0.0
lab*ce 0.125 0.25 0.5
lab*nce 0.0 0.25 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi4* 1.0 0.0 0.0 (0.0)
olvi5* 1.0 0.0 0.0 (0.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LAB 11.01 0.0 0.0
LAB*LAB 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 1.0 0.435 (1.0)
olvi4* 0.25 0.0 0.565 (0.0)
olvi5* 0.25 1.0 0.435 (1.0)
olvi6* 0.25 0.0 0.565 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 63.45 -41.46 14.03
LAB*LAB 63.45 -41.09 11.43
LAB*LAB 62.5 42.66 164.46

relative CIELAB lab*
lab*lab 0.587 -0.721 0.201
lab*ch 0.625 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*tr 0.587 -0.749 0.0
lab*ce 0.625 0.75 0.5
lab*nce 0.0 0.75 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.188 (1.0)
olvi4* 0.75 0.0 0.812 (0.0)
olvi5* 0.0 0.75 0.188 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 54.75 -27.6 9.64
LAB*LAB 54.75 -27.39 7.62
LAB*LAB 50.0 28.44 164.46

relative CIELAB lab*
lab*lab 0.475 -0.481 0.134
lab*ch 0.475 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*tr 0.475 -0.499 0.0
lab*ce 0.475 0.5 0.5
lab*nce 0.0 0.5 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.188 (1.0)
olvi4* 0.25 0.0 0.812 (0.0)
olvi5* 0.0 0.25 0.188 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 26.71 -13.35 3.84
LAB*LAB 26.71 -13.69 3.82
LAB*LAB 12.5 14.22 164.44

relative CIELAB lab*
lab*lab 0.112 -0.24 0.067
lab*ch 0.125 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*tr 0.112 -0.249 0.0
lab*ce 0.125 0.25 0.5
lab*nce 0.0 0.25 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi4* 1.0 0.0 0.0 (0.0)
olvi5* 1.0 0.0 0.0 (0.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LAB 11.01 0.0 0.0
LAB*LAB 0.0 0.0 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi4* 1.0 0.0 0.0 (0.0)
olvi5* 1.0 0.0 0.0 (0.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LAB 11.01 0.0 0.0
LAB*LAB 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 52.8 -54.95 17.13
LAB*LAB 52.8 -54.79 15.24
LAB*LAB 50.0 56.88 164.45

relative CIELAB lab*
lab*lab 0.45 -0.962 0.268
lab*ch 0.5 1.0 0.457
lab*nch 0.0 1.0 0.457
relative Natural Colour (NC)
lab*tr 0.45 -0.999 0.0
lab*ce 0.5 1.0 0.5
lab*nce 0.0 1.0 0.998

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.188 (1.0)
olvi4* 0.75 0.25 0.623 (0.0)
olvi5* 0.25 0.75 0.188 (1.0)
olvi6* 0.25 0.0 0.377 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 54.75 -27.6 9.64
LAB*LAB 54.75 -27.39 7.62
LAB*LAB 50.0 28.44 164.46

relative CIELAB lab*
lab*lab 0.475 -0.481 0.134
lab*ch 0.475 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*tr 0.475 -0.499 0.0
lab*ce 0.475 0.5 0.5
lab*nce 0.0 0.5 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.25 0.188 (1.0)
olvi4* 0.25 0.0 0.812 (0.0)
olvi5* 0.0 0.25 0.188 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 26.71 -13.35 3.84
LAB*LAB 26.71 -13.69 3.82
LAB*LAB 12.5 14.22 164.44

relative CIELAB lab*
lab*lab 0.112 -0.24 0.067
lab*ch 0.125 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*tr 0.112 -0.249 0.0
lab*ce 0.125 0.25 0.5
lab*nce 0.0 0.25 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi4* 1.0 0.0 0.0 (0.0)
olvi5* 1.0 0.0 0.0 (0.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LAB 11.01 0.0 0.0
LAB*LAB 0.0 0.0 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
olvi4* 1.0 0.0 0.0 (0.0)
olvi5* 1.0 0.0 0.0 (0.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.07 0.01
LAB*LAB 11.01 0.0 0.0
LAB*LAB 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 52.8 -54.95 17.13
LAB*LAB 52.8 -54.79 15.24
LAB*LAB 50.0 56.88 164.45

relative CIELAB lab*
lab*lab 0.45 -0.962 0.268
lab*ch 0.5 1.0 0.457
lab*nch 0.0 1.0 0.457
relative Natural Colour (NC)
lab*tr 0.45 -0.999 0.0
lab*ce 0.5 1.0 0.5
lab*nce 0.0 1.0 0.998

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.188 (1.0)
olvi4* 0.75 0.25 0.623 (0.0)
olvi5* 0.25 0.75 0.188 (1.0)
olvi6* 0.25 0.0 0.377 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 54.75 -27.6 9.64
LAB*LAB 54.75 -27.39 7.62
LAB*LAB 50.0 28.44 164.46

Input: Colorimetric Reflective System ORS18

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

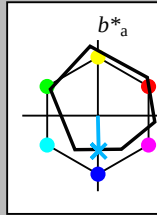
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)
 olv3* 1.0 1.0 1.0 (1.0)
 cmyn3* 0.0 0.0 0.0 (0.0)
 olv4* 1.0 1.0 1.0 (1.0)
 cmyn4* 0.0 0.0 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 95.41 -0.97 47.5
 LAB*LAB 95.41 0.0 0.0
 LAB*TCRa 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*trj 1.0 0.0 0.0
 lab*trc 1.0 0.0 0.0
 lab*ncc 0.0 0.0 -

relative Inform. Technology (IT)
 olv3* 0.75 0.75 0.75 (1.0)
 cmyn3* 0.25 0.25 0.25 (0.0)
 olv4* 1.0 1.0 1.0 0.75
 cmyn4* 0.0 0.0 0.0 0.25
 standard and adapted CIELAB
 LAB*LAB 76.06 -0.6 3.44
 LAB*LAB 76.06 0.0 0.0
 LAB*TCRa 75.0 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*trj 0.75 0.0 0.0
 lab*trc 0.75 0.0 0.0
 lab*ncc 0.0 0.0 -

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (0.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 56.71 -0.23 2.14
 LAB*LAB 56.71 0.0 0.0
 LAB*TCRa 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*trj 0.5 0.0 0.0
 lab*trc 0.5 0.0 0.0
 lab*ncc 0.0 0.0 -

relative Inform. Technology (IT)
 olv3* 0.25 0.25 0.25 (0.0)
 cmyn3* 0.75 0.75 0.75 (1.0)
 olv4* 1.0 1.0 1.0 0.25
 cmyn4* 0.0 0.0 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 37.36 0.13 0.83
 LAB*LAB 37.36 0.0 0.0
 LAB*TCRa 25.0 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*trj 0.25 0.0 0.0
 lab*trc 0.25 0.0 0.0
 lab*ncc 0.0 0.0 -

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.01 0.46
 LAB*LAB 18.02 0.0 0.0
 LAB*TCRa 0.01 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*tch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.0 0.0 0.0
 lab*trc 0.0 0.0 0.0
 lab*ncc 1.0 0.0 -

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.01 0.46
 LAB*LAB 18.02 0.0 0.0
 LAB*TCRa 0.01 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*tch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.0 0.0 0.0
 lab*trc 0.0 0.0 0.0
 lab*ncc 1.0 0.0 -

relative Inform. Technology (IT)
 olv3* 0.75 0.872 1.0 (1.0)
 cmyn3* 0.25 0.128 0.0 (0.0)
 olv4* 0.75 0.872 1.0
 cmyn4* 0.25 0.128 0.0
 standard and adapted CIELAB
 LAB*LAB 82.0 -0.44 -7.31
 LAB*LAB 82.0 0.27 -11.17
 LAB*TCRa 97.5 11.18 271.39

relative CIELAB lab*
 lab*lab 0.827 0.006 -0.249
 lab*tch 0.875 0.25 0.754
 lab*nch 0.0 0.25 0.754
 standard and adapted CIELAB
 LAB*LAB 82.0 -0.44 -7.31
 LAB*LAB 82.0 0.27 -11.17
 LAB*TCRa 97.5 11.18 271.39

relative Inform. Technology (IT)
 olv3* 0.5 0.622 0.75 (1.0)
 cmyn3* 0.5 0.378 0.25 (0.0)
 olv4* 0.75 0.872 1.0 (0.0)
 cmyn4* 0.25 0.128 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 62.65 -0.07 -8.62
 LAB*LAB 62.65 0.27 -11.17
 LAB*TCRa 62.5 11.18 271.4

relative CIELAB lab*
 lab*lab 0.5 0.622 0.75
 lab*tch 0.625 0.25 0.754
 lab*nch 0.25 0.25 0.754
 standard and adapted CIELAB
 LAB*LAB 62.65 -0.07 -8.62
 LAB*LAB 62.65 0.27 -11.17
 LAB*TCRa 62.5 11.18 271.4

relative Inform. Technology (IT)
 olv3* 0.25 0.494 0.75 (1.0)
 cmyn3* 0.75 0.506 0.25 (0.0)
 olv4* 0.75 0.872 1.0 (0.0)
 cmyn4* 0.25 0.128 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 49.25 0.45 -20.71
 LAB*LAB 49.25 0.55 -22.35
 LAB*TCRa 50.0 22.37 271.4

relative CIELAB lab*
 lab*lab 0.494 0.012 -0.499
 lab*tch 0.5 0.5 0.754
 lab*nch 0.0 0.5 0.754
 standard and adapted CIELAB
 LAB*LAB 49.25 0.45 -20.71
 LAB*LAB 49.25 0.55 -22.35
 LAB*TCRa 50.0 22.37 271.4

relative Inform. Technology (IT)
 olv3* 0.25 0.244 0.5 (1.0)
 cmyn3* 0.75 0.622 0.5 (0.0)
 olv4* 0.75 0.872 1.0 (0.0)
 cmyn4* 0.25 0.128 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 43.29 -3.93
 LAB*LAB 43.29 0.27 -11.17
 LAB*TCRa 37.5 11.18 271.4

relative CIELAB lab*
 lab*lab 0.327 0.006 -0.249
 lab*tch 0.375 0.25 0.754
 lab*nch 0.0 0.25 0.754
 standard and adapted CIELAB
 LAB*LAB 43.29 -3.93
 LAB*LAB 43.29 0.27 -11.17
 LAB*TCRa 37.5 11.18 271.4

relative Inform. Technology (IT)
 olv3* 0.0 0.154 0.012 -0.499
 cmyn3* 1.0 0.878 0.75 (0.0)
 olv4* 0.75 0.872 1.0 0.5
 cmyn4* 0.25 0.128 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 23.96 0.67 -11.23
 LAB*LAB 23.96 0.28 -11.17
 LAB*TCRa 12.5 11.18 271.42

relative CIELAB lab*
 lab*lab 0.077 0.006 -0.249
 lab*tch 0.125 0.25 0.754
 lab*nch 0.0 0.25 0.754
 standard and adapted CIELAB
 LAB*LAB 23.96 0.67 -11.23
 LAB*LAB 23.96 0.28 -11.17
 LAB*TCRa 12.5 11.18 271.42

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.01 0.46
 LAB*LAB 18.02 0.0 0.0
 LAB*TCRa 0.01 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*tch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.0 0.0 0.0
 lab*trc 0.0 0.0 0.0
 lab*ncc 1.0 0.0 -

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	50.59	-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)
 olv3* 0.5 0.622 0.75 (1.0)
 cmyn3* 0.5 0.378 0.25 (0.0)
 olv4* 0.75 0.872 1.0 (0.0)
 cmyn4* 0.25 0.128 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 68.59 0.44 -22.35
 LAB*LAB 68.59 0.54 -22.35
 LAB*TCRa 75.0 22.36 271.4

relative CIELAB lab*
 lab*lab 0.654 0.012 -0.499
 lab*tch 0.75 0.5 0.754
 lab*nch 0.0 0.5 0.754
 standard and adapted CIELAB
 LAB*LAB 68.59 0.44 -22.35
 LAB*LAB 68.59 0.54 -22.35
 LAB*TCRa 75.0 22.36 271.4

relative Inform. Technology (IT)
 olv3* 0.25 0.368 0.75 (1.0)
 cmyn3* 0.75 0.506 0.25 (0.0)
 olv4* 0.75 0.872 1.0 (0.0)
 cmyn4* 0.25 0.128 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 49.25 0.45 -20.71
 LAB*LAB 49.25 0.55 -22.35
 LAB*TCRa 50.0 22.37 271.4

relative CIELAB lab*
 lab*lab 0.48 0.018 -0.749
 lab*tch 0.625 0.75 0.754
 lab*nch 0.0 0.75 0.754
 standard and adapted CIELAB
 LAB*LAB 49.25 0.45 -20.71
 LAB*LAB 49.25 0.55 -22.35
 LAB*TCRa 50.0 22.37 271.4

relative Inform. Technology (IT)
 olv3* 0.25 0.244 0.5 (1.0)
 cmyn3* 0.75 0.622 0.5 (0.0)
 olv4* 0.75 0.872 1.0 (0.0)
 cmyn4* 0.25 0.128 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 43.29 -3.93
 LAB*LAB 43.29 0.27 -11.17
 LAB*TCRa 37.5 11.18 271.4

relative CIELAB lab*
 lab*lab 0.327 0.006 -0.249
 lab*tch 0.375 0.25 0.754
 lab*nch 0.0 0.25 0.754
 standard and adapted CIELAB
 LAB*LAB 43.29 -3.93
 LAB*LAB 43.29 0.27 -11.17
 LAB*TCRa 37.5 11.18 271.4

relative Inform. Technology (IT)
 olv3* 0.0 0.154 0.012 -0.499
 cmyn3* 1.0 0.878 0.75 (0.0)
 olv4* 0.75 0.872 1.0 0.5
 cmyn4* 0.25 0.128 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 23.96 0.67 -11.23
 LAB*LAB 23.96 0.28 -11.17
 LAB*TCRa 12.5 11.18 271.42

relative CIELAB lab*
 lab*lab 0.077 0.006 -0.249
 lab*tch 0.125 0.25 0.754
 lab*nch 0.0 0.25 0.754
 standard and adapted CIELAB
 LAB*LAB 23.96 0.67 -11.23
 LAB*LAB 23.96 0.28 -11.17
 LAB*TCRa 12.5 11.18 271.42

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.01 0.46
 LAB*LAB 18.02 0.0 0.0
 LAB*TCRa 0.01 0.01 -

relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*tch 0.0 0.0 0.0
 lab*nch 1.0 0.0 0.0
 relative Natural Colour (NC)
 lab*trj 0.0 0.0 0.0
 lab*trc 0.0 0.0 0.0
 lab*ncc 1.0 0.0 -

relative Inform. Technology (IT)
 olv3* 0.25 0.616 1.0 (1.0)
 cmyn3* 0.75 0.384 0.0 (0.0)
 olv4* 0.25 0.616 1.0 (0.0)
 cmyn4* 0.75 0.384 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 55.19 0.61 -31.48
 LAB*LAB 55.19 0.62 -33.53
 LAB*TCRa 62.5 33.55 271.4

relative CIELAB lab*
 lab*lab 0.48 0.018 -0.749
 lab*tch 0.625 0.75 0.754
 lab*nch 0.0 0.75 0.754
 standard and adapted CIELAB
 LAB*LAB 55.19 0.61 -31.48
 LAB*LAB 55.19 0.62 -33.53
 LAB*TCRa 62.5 33.55 271.4

relative Inform. Technology (IT)
 olv3* 0.25 0.368 0.75 (1.0)
 cmyn3* 0.75 0.506 0.25 (0.0)
 olv4* 0.75 0.872 1.0 (0.0)
 cmyn4* 0.25 0.128 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 49.25 0.45 -20.71
 LAB*LAB 49.25 0.55 -22.35
 LAB*TCRa 50.0 22.37 271.4

relative CIELAB lab*
 lab*lab 0.48 0.018 -0.749
 lab*tch 0.625 0.75 0.754
 lab*nch 0.0 0.75 0.754
 standard and adapted CIELAB
 LAB*LAB 49.25 0.45 -20.71
 LAB*LAB 49.25 0.55 -22.35
 LAB*TCRa 50.0 22.37 271.4

relative Inform. Technology (IT)
 olv3* 0.25 0.244 0.5 (1.0)
 cmyn3* 0.75 0.622 0.5 (0.0)
 olv4* 0.75 0.872 1.0 (0.0)
 cmyn4* 0.25 0.128 0.0 (0.0)
 standard and adapted CIELAB
 LAB*LAB 43.29 -3.93
 LAB*LAB 43.29 0.27 -11.17
 LAB*TCRa 37.5 11.18 271.4

relative CIELAB lab*
 lab*lab 0.327 0.006 -0.249
 lab*tch 0.375 0.25 0.754
 lab*nch 0.0 0.25 0.754
 standard and adapted CIELAB
 LAB*LAB 43.29 -3.93
 LAB*LAB 43.29 0.27 -11.17
 LAB*TCRa 37.5 11.18 271.4

relative Inform. Technology (IT)
 olv3* 0.0 0.154 0.012 -0.499
 cmyn3* 1.0 0.878 0.75 (0.0)
 olv4* 0.75 0.872 1.0 0.5
 cmyn4* 0.25 0.128 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 23.96 0.67 -11.23
 LAB*LAB 23.96 0.28 -11.17
 LAB*TCRa 12.5 11.18 271.42

relative CIELAB lab*
 lab*lab 0.077 0.006 -0.249
 lab*tch 0.125 0.25 0.754
 lab*nch 0.0 0.25 0.754
 standard and adapted CIELAB
 LAB*LAB 23.96 0.67 -11.23
 LAB*LAB 23.96 0.28 -11.17
 LAB*TCRa 12.5 11.18 271.42

relative Inform. Technology (IT)
 olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olv4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0
 standard and adapted CIELAB
 LAB*LAB 18.02 0.01 0.46
 LAB*LAB 18.02 0.0 0.0
 LAB*TCRa 0.01 0.01 -

relative Inform. Technology (IT)
 olv3* 0.5 0.5 0.5 (0.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olv4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 53.21 0.04 -43.56
 LAB*LAB 53.21 0.0 0.0
 LAB*TCRa 50.0 44.73 271.4

relative CIELAB lab*
 lab*lab 0.5 0.5 0.0
 lab*tch 0.5 0.0 0.0
 lab*nch 0.0 0.0 0.0
 standard and adapted CIELAB
 LAB*LAB 53.21 0.04 -43.56
 LAB*LAB 53.21 0.0 0.0
 LAB*TCRa 50.0 44.73 271.4

relative Inform. Technology (IT)
 olv3* 0.25 0.256 0.5 (1.0)
 cmyn3* 0.75 0.744 0.5 (0.0)
 olv4* 0.75 0.756 1.0 0.5
 cmyn4* 0.25 0.244 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 42.65 0.65 -20.74
 LAB*LAB 42.65 0.6 20.76
 LAB*TCRa 37.5 20.78 271.66

relative CIELAB lab*
 lab*lab 0.25 0.256 0.5
 lab*tch 0.25 0.25 0.755
 lab*nch 0.0 0.25 0.755
 standard and adapted CIELAB
 LAB*LAB 42.65 0.65 -20.74
 LAB*LAB 42.65 0.6 20.76
 LAB*TCRa 37.5 20.78 271.66

relative Inform. Technology (IT)
 olv3* 0.25 0.256 0.5 (1.0)
 cmyn3* 0.75 0.744 0.5 (0.0)
 olv4* 0.75 0.756 1.0 0.5
 cmyn4* 0.25 0.244 0.0 0.5
 standard and adapted CIELAB
 LAB*LAB 42.65 0.65 -20.74
 LAB*LAB 42.65 0.6 20.76
 LAB*TCRa 37.5 20.78 271.66

relative CIELAB lab*
 lab*lab 0.25 0.256 0.5
 lab*tch 0.25 0.25 0.755
 lab*nch 0.0 0.25 0.755
 standard and adapted CIELAB
 LAB*LAB 42.65 0.65 -20.74
 LAB*LAB 42.65 0.6 20.76
 LAB*TCRa 37.5 20.78 271.66

relative Inform. Technology (IT)
 olv3* 0.0 0.006 0.25 (1.0)
 cmyn3* 1.0 0.994 0.75 (0.0)
 olv4* 0.75 0.756 1.0 0.0
 cmyn4* 0.25 0.244 0.0 0.75
 standard and adapted CIELAB
 LAB*LAB 21.58 0.68 -20.73
 LAB*LAB 21.58 0.61 -20.75
 LAB*TCRa 12.5 20.77 271.68

relative CIELAB lab*
 lab*lab 0.0 0.006 0.25
 lab*tch 0.0 0.006 0.25
 lab*nch 0.0 0.006 0.25
 standard and adapted CIELAB
 LAB*LAB 21.58 0.68 -20.73
 LAB*LAB 21.58 0.61 -20.75
 LAB*TCRa