

Input: Colorimetric Reflective System ORS18

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

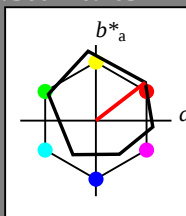
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



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

standard and adapted CIELAB

LAB*LAB	83.54	15.58	16.58
LAB*LABa	83.54	16.34	12.62
LAB*LABb	97.5	20.65	37.7

relative CIELAB lab*

lab*lab	0.847	0.198	0.153
lab*tch	0.875	0.25	0.105
lab*nch	0.0	0.25	0.105

relative Natural Colour (NC)

lab*trj	0.847	0.238	0.075
lab*tce	0.875	0.25	0.048
lab*nce	0.0	0.25	0.119

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	71.67	32.15	28.41
LAB*LABa	71.67	32.68	25.25
LAB*LABb	75.0	41.3	37.7

relative CIELAB lab*

lab*lab	0.693	0.396	0.306
lab*tch	0.75	0.5	0.105
lab*nch	0.0	0.5	0.105

relative Natural Colour (NC)

lab*trj	0.693	0.477	0.15
lab*tce	0.75	0.5	0.048
lab*nce	0.0	0.5	0.119

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.81	48.72	40.24
LAB*LABa	59.81	49.02	37.88
LAB*LABb	62.5	61.95	37.7

relative CIELAB lab*

lab*lab	0.54	0.593	0.459
lab*tch	0.625	0.75	0.105
lab*nch	0.0	0.75	0.105

relative Natural Colour (NC)

lab*trj	0.54	0.715	0.225
lab*tce	0.625	0.75	0.048
lab*nce	0.0	0.75	0.119

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.95	65.29	52.06
LAB*LABa	47.95	65.36	50.51
LAB*LABb	50.0	82.6	37.7

relative CIELAB lab*

lab*lab	0.387	0.791	0.611
lab*tch	0.5	1.0	0.105
lab*nch	0.0	1.0	0.105

relative Natural Colour (NC)

lab*trj	0.387	0.954	0.299
lab*tce	0.5	1.0	0.048
lab*nce	0.0	1.0	0.119

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	53.21	64.04	50.01
LAB*LABa	53.21	64.04	50.01
LAB*LABb	50.0	82.6	37.7

relative CIELAB lab*

lab*lab	0.5	0.5	0.0
lab*tch	0.5	0.5	0.0
lab*nch	0.0	0.5	0.0

relative Natural Colour (NC)

lab*trj	0.5	0.5	0.0
lab*tce	0.5	0.5	0.0
lab*nce	0.0	0.5	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	42.65	19.32	8.59
LAB*LABa	42.65	19.26	8.58
LAB*LABb	37.5	21.09	24.01

relative CIELAB lab*

lab*lab	0.25	0.228	0.102
lab*tch	0.25	0.25	0.067
lab*nch	0.0	0.25	0.067

relative Natural Colour (NC)

lab*trj	0.25	0.25	0.004
lab*tce	0.25	0.25	0.097
lab*nce	0.0	0.25	0.098

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	32.1	38.52	17.16
LAB*LABa	32.1	38.52	17.16
LAB*LABb	25.01	42.17	24.01

relative CIELAB lab*

lab*lab	0.375	0.228	0.102
lab*tch	0.375	0.25	0.067
lab*nch	0.0	0.25	0.067

relative Natural Colour (NC)

lab*trj	0.375	0.25	0.004
lab*tce	0.375	0.25	0.097
lab*nce	0.0	0.25	0.098

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	18.02	18.02	0.46
LAB*LABa	18.02	18.02	0.46
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	0.0	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	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*	0.0	0.0	0.0	(1.0)
cmyn4*	1.0	1.0	1.0	(0.0)

standard and adapted CIELAB

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

chromaticness c^*

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

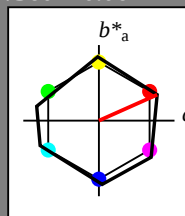
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 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*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*	1.0	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	(0.0)
olvi4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	74.31	0.02	0.0
LAB*LABa	74.31	0.02	0.0
LAB*LABb	75.0	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	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	63.75	19.3	8.59
LAB*LABa	63.75	19.26	8.58
LAB*LABb	62.5	21.09	24.01

relative CIELAB lab*

lab*lab	0.75	0.25	0.102
lab*tch	0.75	0.25	0.067
lab*nch	0.0	0.25	0.067

relative Natural Colour (NC)

lab*trj	0.75	0.25	0.004
lab*tce	0.75	0.25	0.097
lab*nce	0.0	0.25	0.098

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	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	53.2	38.57	17.17
LAB*LABa	53.2	38.53	17.16
LAB*LABb	50.0	42.18	24.01

relative CIELAB lab*

lab*lab	0.5	0.457	0.203
lab*tch	0.5	0.5	0.067
lab*nch	0.0	0.5	0.067

relative Natural Colour (NC)

lab*trj	0.5	0.5	0.009
lab*tce	0.5	0.5	0.097
lab*nce	0.0	0.5	0.098

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	0.25	0.25	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	42.65	19.32	8.59
LAB*LABa	42.65	19.26	8.58
LAB*LABb	37.5	21.09	24.01

relative CIELAB lab*

lab*lab	0.25	0.228	0.102
lab*tch	0.25	0.25	0.067
lab*nch	0.0	0.25	0.067

relative Natural Colour (NC)

lab*trj	0.25	0.25	0.004
lab*tce	0.25	0.25	0.097
lab*nce	0.0	0.25	0.098

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

chromaticness c^*

BAM-test chart TE52; Colorimetric systems ORS18 & ORS18

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

input: $olv^*setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Reflective System ORS18

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

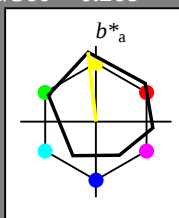
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

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

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

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	-0.97	47.5
LAB*LABa	95.41	0.0	0.0
LAB*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*	1.0	1.0	0.75	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	0.75	1.0
cmyn4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	94.14	-3.51	27.61
LAB*LABa	94.14	-2.56	22.93
LAB*LABb	97.5	25.08	96.39

relative CIELAB lab*

lab*lab	0.984	-0.027	0.248
lab*tch	0.875	0.25	0.268
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.984	-0.024	0.249
lab*tce	0.875	0.25	0.268
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	1.0	1.0	0.5	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	0.5	1.0
cmyn4*	0.0	0.0	0.0	0.0

standard and adapted CIELAB

LAB*LAB	92.88	-6.06	50.46
LAB*LABa	92.88	-5.13	45.87
LAB*LABb	97.5	46.16	96.39

relative CIELAB lab*

lab*lab	0.967	-0.055	0.497
lab*tch	0.75	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.967	-0.048	0.497
lab*tce	0.75	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	91.62	-8.6	73.32
LAB*LABa	91.62	-7.7	68.82
LAB*LABb	97.5	69.25	96.39

relative CIELAB lab*

lab*lab	0.951	-0.082	0.745
lab*tch	0.625	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.951	-0.073	0.746
lab*tce	0.625	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	90.37	-11.15	96.17
LAB*LABa	90.37	-10.26	91.77
LAB*LABb	97.5	92.32	96.39

relative CIELAB lab*

lab*lab	0.935	-0.11	0.994
lab*tch	0.5	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.935	-0.097	0.995
lab*tce	0.5	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	90.37	-10.26	91.77
LAB*LABa	90.37	-10.26	91.77
LAB*LABb	97.5	92.32	96.39

relative CIELAB lab*

lab*lab	0.935	-0.11	0.994
lab*tch	0.5	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.935	-0.097	0.995
lab*tce	0.5	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	90.37	-10.26	91.77
LAB*LABa	90.37	-10.26	91.77
LAB*LABb	97.5	92.32	96.39

relative CIELAB lab*

lab*lab	0.935	-0.11	0.994
lab*tch	0.5	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.935	-0.097	0.995
lab*tce	0.5	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	90.37	-10.26	91.77
LAB*LABa	90.37	-10.26	91.77
LAB*LABb	97.5	92.32	96.39

relative CIELAB lab*

lab*lab	0.935	-0.11	0.994
lab*tch	0.5	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.935	-0.097	0.995
lab*tce	0.5	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	90.37	-10.26	91.77
LAB*LABa	90.37	-10.26	91.77
LAB*LABb	97.5	92.32	96.39

relative CIELAB lab*

lab*lab	0.935	-0.11	0.994
lab*tch	0.5	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.935	-0.097	0.995
lab*tce	0.5	0.0	0.0
lab*nce	0.0	0.0	0.0

TE52-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

5 step scales for constant CIELAB hue 91/360 = 0.253 (right)

BAM-test chart TE52; Colorimetric systems ORS18 & ORS18

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

input: $ol^*v^*setrgbcolor$

output: Startup (S) data dependend

Input: Colorimetric Reflective System ORS18

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

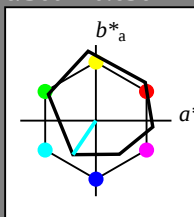
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



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* 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*TCMa 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*Lab 76.06 0.0 0.0
LAB*TCMa 75.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.881 -0.139 -0.206
lab*tch 0.875 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.881 -0.123 -0.216
lab*tce 0.875 0.25 0.593
lab*nce 0.0 0.25 0.656

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 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 77.01 -15.16 -19.98
LAB*Lab 77.01 0.0 0.0
LAB*TCMa 75.0 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 0.593
lab*nce 0.0 0.5 0.656

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 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.631 -0.123 -0.216
lab*tce 0.625 0.25 0.593
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.66 -15.17 -22.5
LAB*Lab 57.66 0.0 0.0
LAB*TCMa 50.0 27.15 236.01

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 0.593
lab*nce 0.0 0.75 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.631 -0.123 -0.216
lab*tce 0.625 0.25 0.593
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.66 -15.17 -22.5
LAB*Lab 57.66 0.0 0.0
LAB*TCMa 50.0 27.15 236.01

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 0.593
lab*nce 0.0 0.75 0.656

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 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.631 -0.123 -0.216
lab*tce 0.625 0.25 0.593
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.66 -15.17 -22.5
LAB*Lab 57.66 0.0 0.0
LAB*TCMa 50.0 27.15 236.01

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 0.593
lab*nce 0.0 0.75 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.631 -0.123 -0.216
lab*tce 0.625 0.25 0.593
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.66 -15.17 -22.5
LAB*Lab 57.66 0.0 0.0
LAB*TCMa 50.0 27.15 236.01

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 0.593
lab*nce 0.0 0.75 0.656

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 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.631 -0.123 -0.216
lab*tce 0.625 0.25 0.593
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.66 -15.17 -22.5
LAB*Lab 57.66 0.0 0.0
LAB*TCMa 50.0 27.15 236.01

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 0.593
lab*nce 0.0 0.75 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.631 -0.123 -0.216
lab*tce 0.625 0.25 0.593
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.66 -15.17 -22.5
LAB*Lab 57.66 0.0 0.0
LAB*TCMa 50.0 27.15 236.01

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 0.593
lab*nce 0.0 0.75 0.656

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 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.631 -0.123 -0.216
lab*tce 0.625 0.25 0.593
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.66 -15.17 -22.5
LAB*Lab 57.66 0.0 0.0
LAB*TCMa 50.0 27.15 236.01

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 0.593
lab*nce 0.0 0.75 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 56.71 -0.23 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.631 -0.123 -0.216
lab*tce 0.625 0.25 0.593
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olvi3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.66 -15.17 -22.5
LAB*Lab 57.66 0.0 0.0
LAB*TCMa 50.0 27.15 236.01

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 0.593
lab*nce 0.0 0.75 0.656

Output: Colorimetric Reflective System NRS11

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

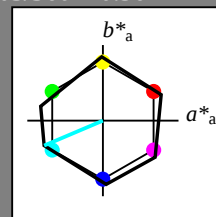
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



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 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*TCMa 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 74.31 0.02 0.0
LAB*Lab 74.31 0.0 0.0
LAB*TCMa 75.0 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 (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 74.31 0.02 0.0
LAB*Lab 74.31 0.0 0.0
LAB*TCMa 75.0 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 53.21 0.04 0.0
LAB*Lab 53.21 0.0 0.0
LAB*TCMa 50.0 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* 0.0 0.0 0.0 (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 53.21 0.04 0.0
LAB*Lab 53.21 0.0 0.0
LAB*TCMa 50.0 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 53.21 0.04 0.0
LAB*Lab 53.21 0.0 0.0
LAB*TCMa 50.0 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 (

Input: Colorimetric Reflective System ORS18

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

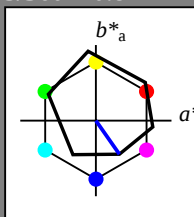
$lab \cdot tch$ and $lab \cdot nch$

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 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*TCa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*trc 1.0 0.0 0.0
lab*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*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*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*trc 0.75 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
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*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*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*trc 0.5 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
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 -0.3 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*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*trc 0.25 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*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*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*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*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

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* 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 60.56 15.24 -19.79
LAB*Lab 60.56 15.24 -19.79
LAB*TCa 75.0 27.11 305.0

relative CIELAB lab*
lab*lab 0.5 0.287 -0.408
lab*tch 0.75 0.5 0.847
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*trj 0.5 0.225 -0.446
lab*trc 0.75 0.5 0.824
lab*ncc 0.0 0.5 0.824

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (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 41.21 15.61 -21.1
LAB*Lab 41.21 15.61 -21.1
LAB*TCa 50.0 27.12 305.0

relative CIELAB lab*
lab*lab 0.3 0.287 -0.409
lab*tch 0.5 0.5 0.847
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*trj 0.3 0.225 -0.446
lab*trc 0.5 0.5 0.824
lab*ncc 0.0 0.5 0.824

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 21.87 15.55 -72.2
LAB*Lab 21.87 15.55 -72.2
LAB*TCa 25.01 27.11 305.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 19.94 7.77 -11.09
LAB*Lab 19.94 7.77 -11.09
LAB*TCa 12.5 30.5 305.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 18.02 0.0 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*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab \cdot h = 273/360 = 0.758$

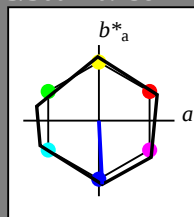
$lab \cdot tch$ and $lab \cdot nch$

D65: hue B

LCH*Ma: 53 84 273

rgb*Ma: 0.0 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 0.0 -0.01
LAB*Lab 95.41 0.0 0.0
LAB*TCa 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 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 74.31 0.02 0.0
LAB*Lab 74.31 0.02 0.0
LAB*TCa 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*trc 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.04 -0.01
LAB*Lab 53.21 0.04 -0.01
LAB*TCa 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*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 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*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*trc 0.25 0.0 0.0
lab*ncc 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 21.87 15.55 -72.2
LAB*Lab 21.87 15.55 -72.2
LAB*TCa 25.01 27.11 305.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 19.94 7.77 -11.09
LAB*Lab 19.94 7.77 -11.09
LAB*TCa 12.5 30.5 305.0

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

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
G5Ma	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* 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 74.3 2.21 -42.13
LAB*Lab 74.3 2.21 -42.13
LAB*TCa 75.0 42.2 272.97

relative CIELAB lab*
lab*lab 0.75 0.026 -0.498
lab*tch 0.75 0.5 0.758
lab*nch 0.0 0.5 0.758
relative Natural Colour (NC)
lab*trj 0.75 0.009 -0.499
lab*trc 0.75 0.5 0.753
lab*ncc 0.0 0.5 0.753

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (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 53.2 2.23 -42.13
LAB*Lab 53.2 2.23 -42.13
LAB*TCa 50.0 42.2 272.97

relative CIELAB lab*
lab*lab 0.5 0.026 -0.498
lab*tch 0.5 0.5 0.758
lab*nch 0.0 0.5 0.758
relative Natural Colour (NC)
lab*trj 0.5 0.009 -0.499
lab*trc 0.5 0.5 0.753
lab*ncc 0.0 0.5 0.753

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 32.1 2.19 -42.13
LAB*Lab 32.1 2.19 -42.13
LAB*TCa 25.01 42.2 272.97

relative CIELAB lab*
lab*lab 0.375 0.013 -0.249
lab*tch 0.375 0.25 0.758
lab*nch 0.0 0.25 0.758
relative Natural Colour (NC)
lab*trj 0.375 0.009 -0.249
lab*trc 0.375 0.25 0.753
lab*ncc 0.0 0.25 0.753

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 21.87 15.55 -72.2
LAB*Lab 21.87 15.55 -72.2
LAB*TCa 25.01 27.11 305.0

relative CIELAB lab*
lab*lab 0.0 0.25 0.143 -0.204
lab*tch 0.125 0.25 0.758
lab*nch 0.0 0.25 0.758
relative Natural Colour (NC)
lab*trj 0.0 0.25 0.112 -0.222
lab*trc 0.125 0.25 0.753
lab*ncc 0.0 0.25 0.753

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 19.94 7.77 -11.09
LAB*Lab 19.94 7.77 -11.09
LAB*TCa 12.5 30.5 305.0

relative CIELAB lab*
lab*lab 0.0 0.25 0.143 -0.204
lab*tch 0.125 0.25 0.758
lab*nch 0.0 0.25 0.758
relative Natural Colour (NC)
lab*trj 0.0 0.25 0.112 -0.222
lab*trc 0.125 0.25 0.753
lab*ncc 0.0 0.25 0.753

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (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 53.2 4.42 -84.26
LAB*Lab 53.2 4.42 -84.26
LAB*TCa 50.0 84.39 272.97

relative CIELAB lab*
lab*lab 0.625 0.039 -0.748
lab*tch 0.625 0.75 0.758
lab*nch 0.0 0.75 0.758
relative Natural Colour (NC)
lab*trj 0.625 0.014 -0.749
lab*trc 0.625 0.75 0.753
lab*ncc 0.0 0.75 0.753

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 32.1 3.38 -63.19
LAB*Lab 32.1 3.38 -63.19
LAB*TCa 25.01 63.3 272.97

relative CIELAB lab*
lab*lab 0.375 0.039 -0.748
lab*tch 0.375 0.75 0.758
lab*nch 0.0 0.75 0.758
relative Natural Colour (NC)
lab*trj 0.375 0.014 -0.749
lab*trc 0.375 0.75 0.753
lab*ncc 0.0 0.75 0.753

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 19.94 7.77 -11.09
LAB*Lab 19.94 7.77 -11.09
LAB*TCa 12.5 30.5 305.0

relative CIELAB lab*
lab*lab 0.0 0.25 0.143 -0.204
lab*tch 0.125 0.25 0.758
lab*nch 0.0 0.25 0.758
relative Natural Colour (NC)
lab*trj 0.0 0.25 0.112 -0.222
lab*trc 0.125 0.25 0.753
lab*ncc 0.0 0.25 0.753

Input: Colorimetric Reflective System ORS18

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

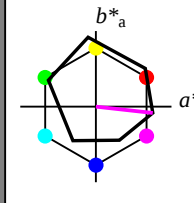
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 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)
olvi5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 4.75
LAB*LAB 95.41 0.0 0.0
LAB*LAB 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)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 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)
olvi5* 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*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)
olvi3* 0.5 0.5 0.5 (0.0)
olvi4* 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)
olvi5* 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*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)
olvi3* 0.75 0.75 0.75 (0.0)
olvi4* 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)
olvi5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.03 0.63
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*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)
olvi3* 1.0 1.0 1.0 (0.0)
olvi4* 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)
olvi5* 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*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	50.59	-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* 1.0 0.5 1.0 (1.0)
olvi3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
olvi5* 1.0 0.5 1.0 (1.0)
olvi5* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 71.77 37.63 -1.17
LAB*LAB 71.77 37.63 -1.17
LAB*LAB 75.00 37.63 353.66

relative CIELAB lab*
lab*lab 0.695 0.497 -0.054
lab*tch 0.75 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*trj 0.695 0.454 -0.208
lab*tce 0.75 0.5 0.982
lab*nce 0.0 0.5 0.982

relative Inform. Technology (IT)
olvi3* 0.75 0.5 0.75 (1.0)
olvi3* 0.25 0.5 0.25 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
olvi5* 1.0 0.5 1.0 (1.0)
olvi5* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 52.42 37.63 -1.17
LAB*LAB 52.42 37.63 -1.17
LAB*LAB 50.00 37.63 353.66

relative CIELAB lab*
lab*lab 0.445 0.454 -0.208
lab*tch 0.5 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*trj 0.445 0.454 -0.208
lab*tce 0.5 0.5 0.982
lab*nce 0.0 0.5 0.982

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.5 (1.0)
olvi3* 0.5 0.0 0.5 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
olvi4* 0.5 0.0 0.5 (0.0)
olvi5* 1.0 0.5 1.0 (1.0)
olvi5* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 33.08 37.63 -1.17
LAB*LAB 33.08 37.63 -1.17
LAB*LAB 25.01 37.63 353.66

relative CIELAB lab*
lab*lab 0.195 0.454 -0.208
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 0.982
lab*nce 0.0 0.5 0.982

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.25 (1.0)
olvi3* 0.25 0.0 0.25 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
olvi4* 0.25 0.0 0.25 (0.0)
olvi5* 1.0 0.5 1.0 (1.0)
olvi5* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 25.54 19.17 2.04
LAB*LAB 25.54 19.17 2.04
LAB*LAB 12.5 18.92 353.66

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

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 1.0 0.25 1.0 (1.0)
olvi3* 0.75 0.25 0.75 (0.0)
olvi4* 1.0 0.25 1.0 (1.0)
olvi4* 0.75 0.25 0.75 (0.0)
olvi5* 1.0 0.25 1.0 (1.0)
olvi5* 0.75 0.25 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 59.95 56.14 -3.9
LAB*LAB 59.95 56.14 -3.9
LAB*LAB 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 0.982
lab*nce 0.0 0.75 0.982

relative Inform. Technology (IT)
olvi3* 0.75 0.0 0.75 (1.0)
olvi3* 0.25 0.0 0.25 (0.0)
olvi4* 1.0 0.25 1.0 (1.0)
olvi4* 0.75 0.0 0.75 (0.0)
olvi5* 1.0 0.25 1.0 (1.0)
olvi5* 0.75 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 48.14 75.18 -6.78
LAB*LAB 48.14 75.18 -6.78
LAB*LAB 50.00 75.71 353.66

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

relative Inform. Technology (IT)
olvi3* 0.5 0.25 0.5 (1.0)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
olvi4* 0.25 0.25 0.25 (0.0)
olvi5* 1.0 0.5 1.0 (1.0)
olvi5* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 34.54 -24.2
LAB*LAB 32.11 34.54 -24.2
LAB*LAB 25.01 34.54 353.66

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
relative Natural Colour (NC)
lab*trj 0.292 0.682 -0.312
lab*tce 0.375 0.75 0.982
lab*nce 0.0 0.75 0.982

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
olvi3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.25 0.25 0.25 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi5* 0.25 0.25 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*LAB 0.0 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 $h^* = lab^*h = 325/360 = 0.903$

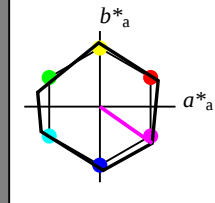
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 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)
olvi5* 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*LAB 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)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 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)
olvi5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*LAB 74.31 0.02 0.0
LAB*LAB 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)
olvi3* 0.5 0.5 0.5 (0.0)
olvi4* 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)
olvi5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.04 0.0
LAB*LAB 53.21 0.04 0.0
LAB*LAB 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)
olvi3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.25 0.25 0.25 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi5* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 32.11 34.54 -24.2
LAB*LAB 32.11 34.54 -24.2
LAB*LAB 25.01 34.54 353.66

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)
olvi3* 1.0 1.0 1.0 (0.0)
olvi4* 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)
olvi5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
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*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

$n^* = 1.0$

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 0.5 1.0 (1.0)
olvi3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
olvi4* 0.5 0.5 0.5 (0.0)
olvi5* 1.0 0.5 1.0 (1.0)
olvi5* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 74.3 34.54 -24.2
LAB*LAB 74.3 34.54 -24.2
LAB*LAB 75.00 42.18 324.98

relative CIELAB lab*
lab*lab 0.75 0.409 -0.286
lab*tch 0.75 0.5 0.903
lab*nch 0.0 0.5 0.903
relative Natural Colour (NC)
lab*trj 0.75 0.336 -0.37
lab*tce 0.75 0.5 0.903
lab*nce 0.0 0.5 0.903

relative Inform. Technology (IT)
olvi3* 0.75 0.25 0.75 (1.0)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
olvi4* 0.25 0.25 0.25 (0.0)
olvi5* 1.0 0.5 1.0 (1.0)
olvi5* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 53.2 34.54 -24.2
LAB*LAB 53.2 34.54 -24.2
LAB*LAB 50.00 42.18 324.98

relative CIELAB lab*
lab*lab 0.5 0.409 -0.286
lab*tch 0.5 0.5 0.903
lab*nch 0.0 0.5 0.903
relative Natural Colour (NC)
lab*trj 0.5 0.336 -0.37
lab*tce 0.5 0.5 0.903
lab*nce 0.0 0.5 0.903

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.5 (1.0)
olvi3* 0.5 0.0 0.5 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
olvi4* 0.5 0.0 0.5 (0.0)
olvi5* 1.0 0.5 1.0 (1.0)
olvi5* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 32.1 34.54 -24.2
LAB*LAB 32.1 34.54 -24.2
LAB*LAB 25.01 42.18 324.98

relative CIELAB lab*
lab*lab 0.375 0.614 -0.429
lab*tch 0.375 0.5 0.903
lab*nch 0.0 0.5 0.903
relative Natural Colour (NC)
lab*trj 0.375 0.503 -0.555
lab*tce 0.375 0.5 0.903
lab*nce 0.0 0.5 0.903

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
olvi3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 0.5 1.0 (1.0)
olvi4* 0.25 0.25 0.25 (0.0)
olvi5* 1.0 0.5 1.0 (1.0)
olvi5* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 21.33 12.07 0.0
LAB*LAB 21.33 12.07 0.0
LAB*LAB 12.5 21.08 324.98

relative CIELAB lab*
lab*lab 0.125 0.205 -0.142
lab*tch 0.125 0.25 0.903
lab*nch 0.0 0.25 0.903
relative Natural Colour (NC)
lab*trj 0.125 0.168 -0.184
lab*tce 0.125 0.25 0.903
lab*nce 0.0 0.25 0.903

Input: Colorimetric Reflective System ORS18

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

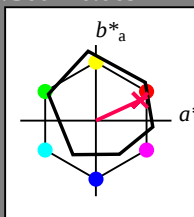
$lab \cdot tch$ and $lab \cdot nch$

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)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 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*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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 Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 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 -

relative CIELAB lab*
lab*lab 0.847 0.227 0.104
lab*tch 0.875 0.25 0.069
lab*nch 0.0 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.847 0.25 0.0
lab*tch 0.875 0.25 0.0
lab*nch 0.0 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 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 -

relative CIELAB lab*
lab*lab 0.597 0.227 0.104
lab*tch 0.625 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.597 0.25 0.0
lab*tch 0.625 0.25 0.0
lab*nch 0.25 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
olvi3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 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 -

relative CIELAB lab*
lab*lab 0.597 0.227 0.104
lab*tch 0.625 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.597 0.25 0.0
lab*tch 0.625 0.25 0.0
lab*nch 0.25 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
olvi3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.347 0.227 0.104
lab*tch 0.375 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.347 0.25 0.0
lab*tch 0.375 0.25 0.0
lab*nch 0.25 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
olvi3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.63
LAB*LAB 37.36 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.347 0.227 0.104
lab*tch 0.375 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.347 0.25 0.0
lab*tch 0.375 0.25 0.0
lab*nch 0.25 0.25 0.0

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

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.097 0.25 0.0
lab*tch 0.125 0.25 0.0
lab*nch 0.25 0.25 0.0

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

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.097 0.25 0.0
lab*tch 0.125 0.25 0.0
lab*nch 0.25 0.25 0.0

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

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.097 0.25 0.0
lab*tch 0.125 0.25 0.0
lab*nch 0.25 0.25 0.0

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

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.097 0.25 0.0
lab*tch 0.125 0.25 0.0
lab*nch 0.25 0.25 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)
olvi3* 1.0 0.5 0.661 (1.0)
olvi3* 0.0 0.5 0.339 (0.0)
olvi4* 1.0 0.5 0.661 (1.0)
olvi4* 0.0 0.5 0.339 (0.0)
olvi4* 0.0 0.5 0.339 (0.0)
olvi4* 0.0 0.5 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 71.7 33.75 18.92
LAB*LAB 71.7 34.27 15.76
LAB*LAB 75.0 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*lab 0.694 0.5 0.0
lab*tch 0.75 0.5 0.0
lab*nch 0.0 0.5 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.5 0.661 (1.0)
olvi3* 0.25 0.5 0.339 (0.0)
olvi4* 1.0 0.5 0.661 (1.0)
olvi4* 0.0 0.5 0.339 (0.0)
olvi4* 0.0 0.5 0.339 (0.0)
olvi4* 0.0 0.5 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 59.85 51.12 26.60
LAB*LAB 59.85 51.42 23.64
LAB*LAB 62.5 56.39 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*lab 0.541 0.75 0.0
lab*tch 0.625 0.75 0.0
lab*nch 0.0 0.75 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.661 (1.0)
olvi3* 0.5 0.5 0.339 (0.0)
olvi4* 1.0 0.5 0.661 (1.0)
olvi4* 0.0 0.5 0.339 (0.0)
olvi4* 0.0 0.5 0.339 (0.0)
olvi4* 0.0 0.5 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 48.01 68.48 33.09
LAB*LAB 48.01 68.55 31.53
LAB*LAB 50.0 75.45 24.7

relative CIELAB lab*
lab*lab 0.388 0.908 0.418
lab*tch 0.5 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*lab 0.388 0.5 0.0
lab*tch 0.5 0.5 0.0
lab*nch 0.0 0.5 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.661 (1.0)
olvi3* 0.25 0.5 0.339 (0.0)
olvi4* 1.0 0.5 0.661 (1.0)
olvi4* 0.0 0.5 0.339 (0.0)
olvi4* 0.0 0.5 0.339 (0.0)
olvi4* 0.0 0.5 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 40.51 51.49 24.7
LAB*LAB 40.51 51.41 23.65
LAB*LAB 50.0 75.45 24.7

relative CIELAB lab*
lab*lab 0.291 0.681 0.313
lab*tch 0.375 0.75 0.069
lab*nch 0.0 0.75 0.069
relative Natural Colour (NC)
lab*lab 0.291 0.75 0.0
lab*tch 0.375 0.75 0.0
lab*nch 0.0 0.75 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.661 (1.0)
olvi3* 0.5 0.0 0.339 (0.0)
olvi4* 1.0 0.0 0.661 (1.0)
olvi4* 0.0 0.0 0.339 (0.0)
olvi4* 0.0 0.0 0.339 (0.0)
olvi4* 0.0 0.0 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 33.01 34.27 15.77
LAB*LAB 33.01 34.27 15.77
LAB*LAB 50.0 75.45 24.7

relative CIELAB lab*
lab*lab 0.194 0.454 0.209
lab*tch 0.25 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*lab 0.194 0.5 0.0
lab*tch 0.25 0.5 0.0
lab*nch 0.0 0.5 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.661 (1.0)
olvi3* 0.25 0.0 0.339 (0.0)
olvi4* 1.0 0.0 0.661 (1.0)
olvi4* 0.0 0.0 0.339 (0.0)
olvi4* 0.0 0.0 0.339 (0.0)
olvi4* 0.0 0.0 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 25.51 17.49 7.93
LAB*LAB 25.51 17.13 7.88
LAB*LAB 50.0 75.45 24.7

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.097 0.25 0.0
lab*tch 0.125 0.25 0.0
lab*nch 0.25 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.661 (1.0)
olvi3* 0.0 0.0 0.339 (0.0)
olvi4* 1.0 0.0 0.661 (1.0)
olvi4* 0.0 0.0 0.339 (0.0)
olvi4* 0.0 0.0 0.339 (0.0)
olvi4* 0.0 0.0 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.097 0.25 0.0
lab*tch 0.125 0.25 0.0
lab*nch 0.25 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.661 (1.0)
olvi3* 0.0 0.0 0.339 (0.0)
olvi4* 1.0 0.0 0.661 (1.0)
olvi4* 0.0 0.0 0.339 (0.0)
olvi4* 0.0 0.0 0.339 (0.0)
olvi4* 0.0 0.0 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.097 0.25 0.0
lab*tch 0.125 0.25 0.0
lab*nch 0.25 0.25 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.661 (1.0)
olvi3* 0.0 0.0 0.339 (0.0)
olvi4* 1.0 0.0 0.661 (1.0)
olvi4* 0.0 0.0 0.339 (0.0)
olvi4* 0.0 0.0 0.339 (0.0)
olvi4* 0.0 0.0 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*lab 0.097 0.25 0.0
lab*tch 0.125 0.25 0.0
lab*nch 0.25 0.25 0.0

Output: Colorimetric Reflective System NRS11

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

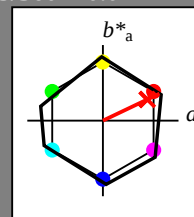
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 53 83 25

rgb*Ma: 1.0 0.03 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 119$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
olvi3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 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*LAB 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*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*LAB 74.31 0.02 0.0
LAB*LAB 75.0 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
olvi3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.04 0.0
LAB*LAB 53.21 0.04 0.0
LAB*LAB 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (1.0)
lab*tch 0.5 0.5 0.0
lab*nch 0.0 0.5 0.0
relative Natural Colour (NC)
lab*lab 0.5 0.5 0.0
lab*tch 0.5 0.5 0.0
lab*nch 0.0 0.5 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.5 (1.0)
olvi3* 0.25 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.01 68.48 33.09
LAB*LAB 48.01 68.55 31.53
LAB*LAB 50.0 75.45 24.7

relative CIELAB lab*
lab*lab 0.388 0.908 0.418
lab*tch 0.5 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*lab 0.388 0.5 0.0
lab*tch 0.5 0.5 0.0
lab*nch 0.0 0.5 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.5 (1.0)
olvi3* 0.5 0.0 0.5 (0.0)
olvi4* 1.0 0.0 0.5 (1.0)
olvi4* 0.0 0.0 0.5 (0.0)
olvi4* 0.0 0.0 0.5 (0.0)
olvi4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 33.01 34.27 15.77
LAB*LAB 33.01 34.27 15.77
LAB*LAB 50.0 75.45 24.7

relative CIELAB lab*
lab*lab 0.194 0.454 0.209
lab*tch 0.25 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*lab 0.194 0.5 0.0
lab*tch 0.25 0.5 0.0
lab*nch 0.0 0.5 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.5 (1.0)
olvi3* 0.25 0.0 0.5 (0.0)
olvi4* 1.0 0.0 0.5 (1.0)
olvi4* 0.0 0.0 0.5 (0.0)
olvi4* 0.0 0.0 0.5 (0.0)
olvi4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 25.51 17.49 7.93
LAB*LAB

Input: Colorimetric Reflective System ORS18

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

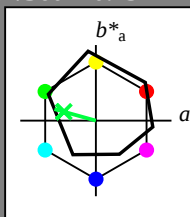
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness t^*



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

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

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

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

relative Inform. Technology (IT)	
olvi3* 0.5 0.5 0.5 (1.0)	
olvi4* 0.5 0.5 0.5 (1.0)	
olvi5* 0.5 0.5 0.5 (1.0)	
olvi6* 0.5 0.5 0.5 (1.0)	
olvi7* 0.5 0.5 0.5 (1.0)	
olvi8* 0.5 0.5 0.5 (1.0)	
olvi9* 0.5 0.5 0.5 (1.0)	
olvi10* 0.5 0.5 0.5 (1.0)	
olvi11* 0.5 0.5 0.5 (1.0)	
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olvi43* 0.5 0.5 0.5 (1.0)	
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olvi45* 0.5 0.5 0.5 (1.0)	
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olvi63* 0.5 0.5 0.5 (1.0)	
olvi64* 0.5 0.5 0.5 (1.0)	
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olvi66* 0.5 0.5 0.5 (1.0)	
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olvi72* 0.5 0.5 0.5 (1.0)	
olvi73* 0.5 0.5 0.5 (1.0)	
olvi74* 0.5 0.5 0.5 (1.0)	
olvi75* 0.5 0.5 0.5 (1.0)	
olvi76* 0.5 0.5 0.5 (1.0)	
olvi77* 0.5 0.5 0.5 (1.0)	
olvi78* 0.5 0.5 0.5 (1.0)	
olvi79* 0.5 0.5 0.5 (1.0)	
olvi80* 0.5 0.5 0.5 (1.0)	
olvi81* 0.5 0.5 0.5 (1.0)	
olvi82* 0.5 0.5 0.5 (1.0)	
olvi83* 0.5 0.5 0.5 (1.0)	
olvi84* 0.5 0.5 0.5 (1.0)	
olvi85* 0.5 0.5 0.5 (1.0)	
olvi86* 0.5 0.5 0.5 (1.0)	
olvi87* 0.5 0.5 0.5 (1.0)	
olvi88* 0.5 0.5 0.5 (1.0)	
olvi89* 0.5 0.5 0.5 (1.0)	
olvi90* 0.5 0.5 0.5 (1.0)	
olvi91* 0.5 0.5 0.5 (1.0)	
olvi92* 0.5 0.5 0.5 (1.0)	
olvi93* 0.5 0.5 0.5 (1.0)	
olvi94* 0.5 0.5 0.5 (1.0)	
olvi95* 0.5 0.5 0.5 (1.0)	
olvi96* 0.5 0.5 0.5 (1.0)	
olvi97* 0.5 0.5 0.5 (1.0)	
olvi98* 0.5 0.5 0.5 (1.0)	
olvi99* 0.5 0.5 0.5 (1.0)	
olvi100* 0.5 0.5 0.5 (1.0)	

relative Inform. Technology (IT)			
<i>olvi3*</i>	0.25	1.0	0.435 (1.0)
<i>olvi3*</i>	0.75	0.0	0.565 (0.0)
<i>olvi4*</i>	0.25	1.0	0.435 (1.0)
<i>olvi4*</i>	0.75	0.0	0.565 (0.0)
standard and adapted CIELAB			
LAB*LAB	63.45	-41.46	14.03
LAB*LABa	63.45	-41.49	11.43
LAB*TCHa	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*ch	0.625	0.75	0.457
relative Natural Colour (NC)			
lab*lrj	0.587	-0.749	0.0
lab*tce	0.625	0.75	0.457
lab*nce	0.0	0.75	g00b

