

See for similar files: <http://www.ps.bam.de/UE52/>
Technical information: <http://www.ps.bam.de> Version 2.1, io=0,1, CIEXYZ

www.ps.bam.de/UE52/10L/L52E01FP.PS/.PDF; linearized output
F: Output Linearization (OL) data UE52/10L/L52E01FP.DAT in File (F)

BAM registration: 20060101-UE52/10L/L52E01FP.PS/.PDF
application for evaluation and measurement of printer or monitor systems, Yr=2.5, XYZ
/UE52/ Form 2/10, Serie: 1/1, Page: 2 Page count: 2

Input: Colorimetric Reflective System ORS18

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

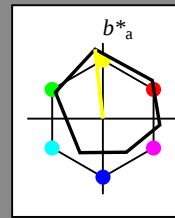
lab^*tch and lab^*nch

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	22.94
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	0.266
lab*nce	0.0	0.25	0.98

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	75.0	46.16	96.39

relative CIELAB lab*

lab*lab	0.967	-0.055	0.497
lab*tch	0.75	0.5	0.268
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.967	-0.048	0.497
lab*tce	0.75	0.5	0.266
lab*nce	0.0	0.5	0.98

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	62.5	69.25	96.39

relative CIELAB lab*

lab*lab	0.951	-0.082	0.745
lab*tch	0.625	0.75	0.268
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.951	-0.073	0.746
lab*tce	0.625	0.75	0.266
lab*nce	0.0	0.75	0.98

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	50.0	92.32	96.39

relative CIELAB lab*

lab*lab	0.935	-0.11	0.994
lab*tch	0.5	1.0	0.268
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.935	-0.097	0.995
lab*tce	0.5	1.0	0.266
lab*nce	0.0	1.0	0.98

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

blackness n^*

$n^* = 0.75$

$n^* = 1.00$

chromaticness c^*

UE520-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

BAM-test chart UE52; Colorimetric systems ORS18 & NRS11

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

Output: Colorimetric Reflective System NRS11

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

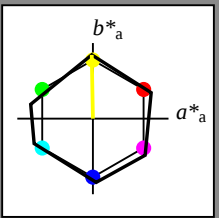
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 84 91

rgb*Ma: 1.0 1.0 0.0

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*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	94.85	-0.35	21.09
LAB*LABa	94.85	-0.37	21.09
LAB*LABb	87.5	21.09	91.03

relative CIELAB lab*

lab*lab	0.875	-0.003	0.25
lab*tch	0.875	0.25	0.253
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.875	0.008	0.25
lab*tce	0.875	0.25	0.245
lab*nce	0.0	0.25	0.98

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	93.75	-0.33	21.1
LAB*LABa	93.75	-0.37	21.09
LAB*LABb	62.5	21.1	91.03

relative CIELAB lab*

lab*lab	0.875	0.0	0.0
lab*tch	0.875	0.25	0.253
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.875	0.0	0.0
lab*tce	0.875	0.25	0.245
lab*nce	0.0	0.25	0.98

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	93.75	-0.33	21.1
LAB*LABa	93.75	-0.37	21.09
LAB*LABb	50.0	42.2	91.03

relative CIELAB lab*

lab*lab	0.875	0.0	0.0
lab*tch	0.875	0.25	0.253
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.875	0.0	0.0
lab*tce	0.875	0.25	0.245
lab*nce	0.0	0.25	0.98

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	93.75	-0.33	21.1
LAB*LABa	93.75	-0.37	21.09
LAB*LABb	50.0	42.2	91.03

relative CIELAB lab*

lab*lab	0.875	0.0	0.0
lab*tch	0.875	0.25	0.253
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.875	0.0	0.0
lab*tce	0.875	0.25	0.245
lab*nce	0.0	0.25	0.98

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

blackness n^*

$n^* = 0.75$

$n^* = 1.00$

chromaticness c^*

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

input: $cmv0^* setcmykcolor$

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

Input: Colorimetric Reflective System ORS18

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

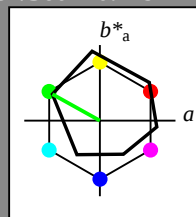
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



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

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

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

Input: Colorimetric Reflective System ORS18

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

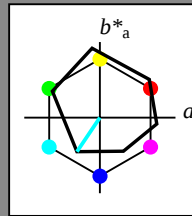
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



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* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 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)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 55.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 35.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 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)
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 0.5
cmyn4* 0.5 0.5 0.5 0.5
standard and adapted CIELAB
LAB*LAB 77.01 -15.16 -19.98
LAB*LABa 77.01 0.0 0.0
LAB*LABb 75.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 0.5 0.5 0.5 0.25
cmyn4* 0.5 0.5 0.5 0.75
standard and adapted CIELAB
LAB*LAB 57.66 -15.17 -22.5
LAB*LABa 57.66 0.0 0.0
LAB*LABb 55.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.5 0.5 0.5 0.0
cmyn4* 0.5 0.5 0.5 1.0
standard and adapted CIELAB
LAB*LAB 38.12 -15.03 -11.59
LAB*LABa 38.12 0.0 0.0
LAB*LABb 35.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.5 0.5 0.5 0.0
cmyn4* 0.5 0.5 0.5 1.0
standard and adapted CIELAB
LAB*LAB 28.17 -7.58 -11.24
LAB*LABa 28.17 0.0 0.0
LAB*LABb 25.01 0.01 -

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

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 0.394 -0.418 -0.621
lab*tch 0.394 0.75 0.656
lab*nch 0.25 0.75 0.656
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 48.47 -22.83 -32.16
LAB*LABa 48.47 0.0 0.0
LAB*LABb 45.00 0.01 -

relative CIELAB lab*
lab*lab 0.394 -0.418 -0.621
lab*tch 0.394 0.75 0.656
lab*nch 0.25 0.75 0.656
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 39.32 -15.16 -22.5
LAB*LABa 39.32 0.0 0.0
LAB*LABb 35.00 0.01 -

relative Inform. Technology (IT)
olvi3* 0.262 -0.278 -0.413
lab*tch 0.262 0.75 0.656
lab*nch 0.25 0.75 0.656
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 29.92 -7.27 -11.02
LAB*LABa 29.92 0.0 0.0
LAB*LABb 25.01 0.01 -

relative CIELAB lab*
lab*lab 0.262 -0.278 -0.413
lab*tch 0.262 0.75 0.656
lab*nch 0.25 0.75 0.656
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 21.15 -13.57 -23.61
LAB*LABa 21.15 0.0 0.0
LAB*LABb 25.01 0.01 -

$n^* = 0.25$

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System NRS11

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

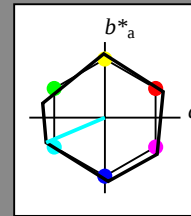
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



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* 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*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)
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*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)
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 32.11 0.05 0.0
LAB*LABa 32.11 0.0 0.0
LAB*LABb 30.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.01
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: $cmY0^* setcmykcolor$

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)
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 0.5
cmyn4* 0.5 0.5 0.5 0.5
standard and adapted CIELAB
LAB*LAB 74.3 -38.82 -16.48
LAB*LABa 74.3 0.0 0.0
LAB*LABb 75.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 0.5 0.5 0.5 0.25
cmyn4* 0.5 0.5 0.5 0.75
standard and adapted CIELAB
LAB*LAB 53.2 -38.81 -16.47
LAB*LABa 53.2 0.0 0.0
LAB*LABb 50.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.5 0.5 0.5 0.0
cmyn4* 0.5 0.5 0.5 1.0
standard and adapted CIELAB
LAB*LAB 42.65 -38.23 -24.71
LAB*LABa 42.65 0.0 0.0
LAB*LABb 40.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.5 0.5 0.5 0.0
cmyn4* 0.5 0.5 0.5 1.0
standard and adapted CIELAB
LAB*LAB 21.15 -13.57 -23.61
LAB*LABa 21.15 0.0 0.0
LAB*LABb 25.01 0.01 -

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

$n^* = 0.50$

blackness n^*

chromaticness c^*

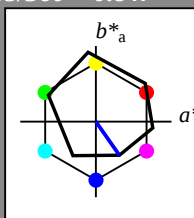
UE520-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

BAM-test chart UE52; Colorimetric systems ORS18 & NRS11

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

Input: Colorimetric Reflective System ORS18
 for hue $h^* = lab^*h = 305/360 = 0.847$
 lab^*tch and lab^*nch

D65: hue V
 LCH*Ma: 26 54 305
 rgb*Ma: 0.0 0.0 1.0
 triangle lightness t^*



ORS18; adapted (a) CIELAB data

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

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

$g^*_{C,rel} = 15.55$

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
 $LAB^*TCha = 99.99$ 0.01 0.0
 relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0
 $lab^*tch = 0.0$ 0.0 0.0
 $lab^*nch = 0.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 1.0$ 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)
 $olvi4^* = 0.25$ 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
 $LAB^*TCha = 75.0$ 0.01 0.0
 relative CIELAB lab*
 $lab^*lab = 0.75$ 0.75 0.75 (1.0)
 $lab^*tch = 0.25$ 0.25 0.25 (0.0)
 $lab^*nch = 0.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.75$ 0.75 0.75 (1.0)
 $lab^*tce = 0.25$ 0.25 0.25 (0.0)
 $lab^*nce = 0.0$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.5$ 0.5 0.5 (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
 $LAB^*LAB = 60.56$ 15.24 -19.79
 $LAB^*LAb = 60.56$ 15.24 -19.79
 $LAB^*TCha = 75.0$ 27.11 305.0
 relative CIELAB lab*
 $lab^*lab = 0.5$ 0.5 0.5 (1.0)
 $lab^*tch = 0.25$ 0.25 0.25 (0.0)
 $lab^*nch = 0.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.5$ 0.5 0.5 (1.0)
 $lab^*tce = 0.25$ 0.25 0.25 (0.0)
 $lab^*nce = 0.0$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.25$ 0.25 0.25 (1.0)
 $olvi4^* = 0.0$ 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
 $LAB^*LAB = 43.14$ 23.35 -33.31
 $LAB^*LAb = 43.14$ 23.35 -33.31
 $LAB^*TCha = 62.5$ 40.67 305.0
 relative CIELAB lab*
 $lab^*lab = 0.25$ 0.25 0.25 (1.0)
 $lab^*tch = 0.0$ 0.0 0.0
 $lab^*nch = 0.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.25$ 0.25 0.25 (1.0)
 $lab^*tce = 0.0$ 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)
 $olvi4^* = 0.0$ 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
 $LAB^*LAB = 25.72$ 31.46 -44.36
 $LAB^*LAb = 25.72$ 31.46 -44.36
 $LAB^*TCha = 50.0$ 54.23 305.0
 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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.0$

$n^* = 1.0$

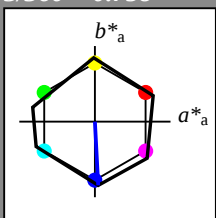
$n^* = 1.0$

$n^* = 1.0$

$n^* = 1.0$

Output: Colorimetric Reflective System NRS11
 for hue $h^* = lab^*h = 273/360 = 0.758$
 lab^*tch and lab^*nch

D65: hue B
 LCH*Ma: 53 84 273
 rgb*Ma: 0.0 0.0 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
G50BMa	53.2	-82.27	18.98	84.44	167
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)
 $olvi4^* = 0.0$ 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
 $LAB^*LAB = 95.41$ -0.01 -0.01
 $LAB^*LAb = 95.41$ 0.0 0.0
 $LAB^*TCha = 99.99$ 0.01 0.0
 relative CIELAB lab*
 $lab^*lab = 1.0$ 0.0 0.0
 $lab^*tch = 0.0$ 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)
 $olvi4^* = 0.25$ 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
 $LAB^*LAB = 74.31$ 0.02 0.0
 $LAB^*LAb = 74.31$ 0.02 0.0
 $LAB^*TCha = 75.0$ 0.01 0.0
 relative CIELAB lab*
 $lab^*lab = 0.75$ 0.75 0.75 (1.0)
 $lab^*tch = 0.25$ 0.25 0.25 (0.0)
 $lab^*nch = 0.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.75$ 0.75 0.75 (1.0)
 $lab^*tce = 0.25$ 0.25 0.25 (0.0)
 $lab^*nce = 0.0$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.5$ 0.5 0.5 (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
 $LAB^*LAB = 63.75$ 1.13 -21.06
 $LAB^*LAb = 63.75$ 1.13 -21.06
 $LAB^*TCha = 62.5$ 21.1 272.97
 relative CIELAB lab*
 $lab^*lab = 0.5$ 0.5 0.5 (1.0)
 $lab^*tch = 0.25$ 0.25 0.25 (0.0)
 $lab^*nch = 0.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.5$ 0.5 0.5 (1.0)
 $lab^*tce = 0.25$ 0.25 0.25 (0.0)
 $lab^*nce = 0.0$ 0.0 0.0

relative Inform. Technology (IT)
 $olvi3^* = 0.25$ 0.25 0.25 (1.0)
 $olvi4^* = 0.0$ 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
 $LAB^*LAB = 42.65$ 1.15 -21.05
 $LAB^*LAb = 42.65$ 1.15 -21.05
 $LAB^*TCha = 50.0$ 54.23 305.0
 relative CIELAB lab*
 $lab^*lab = 0.25$ 0.25 0.25 (1.0)
 $lab^*tch = 0.0$ 0.0 0.0
 $lab^*nch = 0.0$ 0.0 0.0
 relative Natural Colour (NC)
 $lab^*trj = 0.25$ 0.25 0.25 (1.0)
 $lab^*tce = 0.0$ 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)
 $olvi4^* = 0.0$ 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
 $LAB^*LAB = 25.72$ 31.46 -44.36
 $LAB^*LAb = 25.72$ 31.46 -44.36
 $LAB^*TCha = 50.0$ 54.23 305.0
 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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.0$

$n^* = 1.0$

$n^* = 1.0$

$n^* = 1.0$

$n^* = 1.0$

UE520-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

5 step scales for constant CIELAB hue 273/360 = 0.758 (right)

BAM-test chart UE52; Colorimetric systems ORS18 & NRS11

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

input: $cmy0^* \text{ setcmykcolor}$

output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

Input: Colorimetric Reflective System ORS18

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

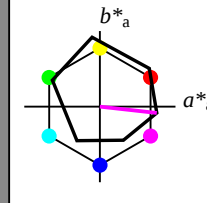
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)	
olvi3*	1.0 1.0 1.0 (1.0)
cmyn3*	0.0 0.0 0.0 (0.0)
olvi4*	1.0 1.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	95.41 -0.97 4.75
LAB*LABa	95.41 0.0 0.0
LAB*LABb	99.99 0.01 0.0
LAB*LABc	0.0 0.0 0.0
relative CIELAB lab*	
lab*lab	1.0 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*trc	0.0 0.0 0.0
lab*ncc	0.0 0.0 0.0

relative Inform. Technology (IT)	
olvi3*	1.0 0.75 1.0 (1.0)
cmyn3*	0.0 0.25 0.0 (0.0)
olvi4*	1.0 0.75 1.0 (1.0)
cmyn4*	0.0 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	83.59 18.06 1.87
LAB*LABa	83.59 18.81 -2.08
LAB*LABb	97.5 18.92 353.66
LAB*LABc	0.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.847 0.248 -0.027
lab*tch	0.875 0.25 0.982
lab*nch	0.0 0.25 0.982
relative Natural Colour (NC)	
lab*trj	0.847 0.227 -0.103
lab*trc	0.875 0.25 0.982
lab*ncc	0.0 0.25 0.982

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 37.1 -1.01
LAB*LABa	71.77 37.63 -4.17
LAB*LABb	75.0 37.86 353.66
LAB*LABc	0.0 0.0 0.0
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*trc	0.75 0.5 0.982
lab*ncc	0.0 0.5 0.982

relative Inform. Technology (IT)	
olvi3*	1.0 0.25 1.0 (1.0)
cmyn3*	0.0 0.25 0.0 (0.0)
olvi4*	1.0 0.25 1.0 (1.0)
cmyn4*	0.0 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	59.95 56.14 -3.9
LAB*LABa	59.95 56.44 -6.26
LAB*LABb	62.5 56.79 353.66
LAB*LABc	0.0 0.0 0.0
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*trc	0.625 0.75 0.982
lab*ncc	0.0 0.75 0.982

relative Inform. Technology (IT)	
olvi3*	1.0 0.0 1.0 (1.0)
cmyn3*	0.0 1.0 0.0 (0.0)
olvi4*	1.0 0.0 1.0 (1.0)
cmyn4*	0.0 1.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	48.14 75.18 -6.78
LAB*LABa	48.14 75.25 -8.35
LAB*LABb	50.0 75.71 353.66
LAB*LABc	0.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.389 0.994 -0.109
lab*tch	0.5 1.0 0.982
lab*nch	0.0 1.0 0.982
relative Natural Colour (NC)	
lab*trj	0.389 0.909 -0.416
lab*trc	0.5 1.0 0.982
lab*ncc	0.0 1.0 0.982

relative Inform. Technology (IT)	
olvi3*	0.75 0.0 0.75 (1.0)
cmyn3*	0.25 0.0 0.25 (0.0)
olvi4*	1.0 0.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	40.61 56.51 -5.2
LAB*LABa	40.61 56.44 -6.26
LAB*LABb	37.51 56.79 353.66
LAB*LABc	0.0 0.0 0.0
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*trc	0.375 0.75 0.982
lab*ncc	0.0 0.75 0.982

relative Inform. Technology (IT)	
olvi3*	0.5 0.0 0.5 (1.0)
cmyn3*	0.5 0.0 0.5 (1.0)
olvi4*	1.0 0.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	33.08 37.84 -0.62
LAB*LABa	33.08 37.63 -4.17
LAB*LABb	25.01 37.86 353.66
LAB*LABc	0.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.195 0.497 -0.054
lab*tch	0.25 0.5 0.982
lab*nch	0.0 0.5 0.982
relative Natural Colour (NC)	
lab*trj	0.195 0.454 -0.208
lab*trc	0.25 0.5 0.982
lab*ncc	0.0 0.5 0.982

relative Inform. Technology (IT)	
olvi3*	0.25 0.0 0.25 (1.0)
cmyn3*	0.75 0.0 0.75 (1.0)
olvi4*	1.0 0.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	11.01 0.0 0.0
LAB*LABa	11.01 0.0 0.0
LAB*LABb	0.0 0.0 0.0
LAB*LABc	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	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	0.0 0.0 0.0

relative Inform. Technology (IT)	
olvi3*	0.25 0.25 0.25 (1.0)
cmyn3*	0.75 0.75 0.75 (1.0)
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 3.0 0.63
LAB*LABa	37.36 0.0 0.0
LAB*LABb	25.0 0.01
LAB*LABc	0.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.347 0.248 -0.027
lab*tch	0.375 0.25 0.982
lab*nch	0.0 0.25 0.982
relative Natural Colour (NC)	
lab*trj	0.347 0.227 -0.103
lab*trc	0.375 0.25 0.982
lab*ncc	0.0 0.25 0.982

relative Inform. Technology (IT)	
olvi3*	0.5 0.0 0.5 (1.0)
cmyn3*	0.5 0.75 0.5 (1.0)
olvi4*	1.0 0.75 1.0 (1.0)
cmyn4*	0.0 0.25 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	44.89 18.8 -0.73
LAB*LABa	44.89 18.82 -2.08
LAB*LABb	37.5 18.93 353.66
LAB*LABc	0.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.347 0.248 -0.027
lab*tch	0.375 0.25 0.982
lab*nch	0.0 0.25 0.982
relative Natural Colour (NC)	
lab*trj	0.347 0.227 -0.103
lab*trc	0.375 0.25 0.982
lab*ncc	0.0 0.25 0.982

relative Inform. Technology (IT)	
olvi3*	0.75 0.0 0.75 (1.0)
cmyn3*	0.25 0.0 0.25 (0.0)
olvi4*	1.0 0.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	33.08 37.84 -0.62
LAB*LABa	33.08 37.63 -4.17
LAB*LABb	25.01 37.86 353.66
LAB*LABc	0.0 0.0 0.0
relative CIELAB lab*	
lab*lab	0.195 0.497 -0.054
lab*tch	0.25 0.5 0.982
lab*nch	0.0 0.5 0.982
relative Natural Colour (NC)	
lab*trj	0.195 0.454 -0.208
lab*trc	0.25 0.5 0.982
lab*ncc	0.0 0.5 0.982

relative Inform. Technology (IT)	
olvi3*	0.25 0.25 0.25 (1.0)
cmyn3*	0.75 0.75 0.75 (1.0)
olvi4*	1.0 1.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	11.01 0.0 0.0
LAB*LABa	11.01 0.0 0.0
LAB*LABb	0.0 0.0 0.0
LAB*LABc	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	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	0.0 0.0 0.0

relative Inform. Technology (IT)	
olvi3*	0.0 0.0 0.0 (1.0)
cmyn3*	1.0 1.0 1.0 (1.0)
olvi4*	1.0 1.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	18.02 0.0 0.46
LAB*LABa	18.02 0.0 0.0
LAB*LABb	0.01 0.01
LAB*LABc	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	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	0.0 0.0 0.0

relative Inform. Technology (IT)	
olvi3*	0.0 0.0 0.0 (1.0)
cmyn3*	0.75 0.0 0.75 (1.0)
olvi4*	1.0 0.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	18.02 0.0 0.46
LAB*LABa	18.02 0.0 0.0
LAB*LABb	0.01 0.01
LAB*LABc	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	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	0.0 0.0 0.0

relative Inform. Technology (IT)	
olvi3*	0.0 0.0 0.0 (1.0)
cmyn3*	0.25 0.0 0.25 (0.0)
olvi4*	1.0 0.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	11.01 0.0 0.0
LAB*LABa	11.01 0.0 0.0
LAB*LABb	0.0 0.0 0.0
LAB*LABc	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	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	0.0 0.0 0.0

relative Inform. Technology (IT)	
olvi3*	0.0 0.0 0.0 (1.0)
cmyn3*	0.75 0.0 0.75 (1.0)
olvi4*	1.0 0.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	11.01 0.0 0.0
LAB*LABa	11.01 0.0 0.0
LAB*LABb	0.0 0.0 0.0
LAB*LABc	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	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	0.0 0.0 0.0

relative Inform. Technology (IT)	
olvi3*	0.0 0.0 0.0 (1.0)
cmyn3*	1.0 1.0 1.0 (1.0)
olvi4*	1.0 1.0 1.0 (1.0)
cmyn4*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	18.02 0.0 0.46
LAB*LABa	18.02 0.0 0.0
LAB*LABb	0.01 0.01
LAB*LABc	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	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	0.0 0.0 0.0

UE520-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

BAM-test chart UE52; Colorimetric systems ORS18 & NRS11
D65: 2 coordinate data of 5 step colour scales for 10 hues

Output: Colorimetric Reflective System NRS11

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

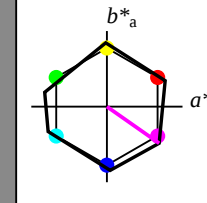
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



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

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

Input: Colorimetric Reflective System ORS18

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

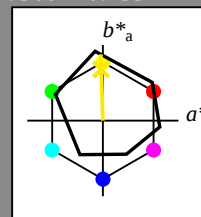
lab^*tch and lab^*nch

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*LABa 95.41 0.0 0.0
LAB*TCHa 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*LABa 93.11 -0.7 21.93
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 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 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 73.75 -1.26 25.22
LAB*LABa 73.75 -0.7 21.93
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 54.4 -0.89 23.92
LAB*LABa 54.4 -0.7 21.93
LAB*TCHa 37.5 21.94 91.84

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 54.4 -0.89 23.92
LAB*LABa 54.4 -0.7 21.93
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 35.05 -0.69 21.92
LAB*LABa 35.05 -0.7 21.93
LAB*TCHa 12.5 21.93 91.84

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 (1.0)
olvi4* 1.0 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 (1.0)
olvi4* 1.0 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 (1.0)
olvi4* 1.0 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 (1.0)
olvi4* 1.0 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 (1.0)
olvi4* 1.0 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

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 0.951 0.5 (1.0)
cmyn3* 0.0 0.049 0.5 (0.0)
olvi4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 90.8 -2.3 48.29
LAB*LABa 90.8 -1.41 43.85
LAB*TCHa 75.0 43.87 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.926 0.25 (1.0)
cmyn3* 0.0 0.074 0.25 (0.0)
olvi4* 1.0 0.926 0.25 (1.0)
cmyn4* 0.0 0.074 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 88.49 -2.96 70.06
LAB*LABa 88.49 -2.11 65.77
LAB*TCHa 62.5 65.81 91.85

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 0.926 0.25 (1.0)
cmyn4* 0.0 0.074 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 88.49 -2.96 70.06
LAB*LABa 88.49 -2.11 65.77
LAB*TCHa 62.5 65.81 91.85

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 0.926 0.25 (1.0)
cmyn4* 0.0 0.074 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 88.49 -2.96 70.06
LAB*LABa 88.49 -2.11 65.77
LAB*TCHa 62.5 65.81 91.85

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 86.15 -3.62 91.83
LAB*LABa 86.15 -2.82 87.69
LAB*TCHa 50.0 87.73 91.85

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 86.15 -3.62 91.83
LAB*LABa 86.15 -2.82 87.69
LAB*TCHa 50.0 87.73 91.85

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*LABa 56.71 0.0 0.0
LAB*TCHa 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 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 54.4 -0.89 23.92
LAB*LABa 54.4 -0.7 21.93
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 35.05 -0.69 21.92
LAB*LABa 35.05 -0.7 21.93
LAB*TCHa 12.5 21.93 91.84

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 (1.0)
olvi4* 1.0 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
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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)
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standard and adapted CIELAB
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olvi3* 0.0 0.0 0.0 (1.0)
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cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

Output: Colorimetric Reflective System NRS11

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

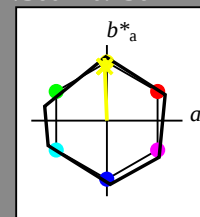
lab^*tch and lab^*nch

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*LABa 95.41 0.0 0.0
LAB*TCHa 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 84.85 -0.81 20.72
LAB*LABa 84.85 -0.82 20.72
LAB*TCHa 87.5 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 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 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*LABa 74.31 0.0 0.0
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TCHa 75.0 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 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 0.975 0.75 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 54.4 -0.89 23.92
LAB*LABa 54.4 -0.7 21.93
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.63 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 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 (1.0)
cmyn4* 0.0 0.025 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 35.05 -0.69 21.92
LAB*LABa 35.05 -0.7 21.93
LAB*TCHa 12.5 21.93 91.84

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.975 0.75 (1.0

