

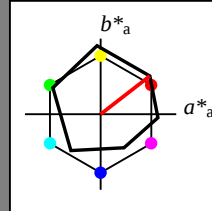
Input: Colorimetric Offset Reflective System ORS18

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

D50: hue O

LCH*Ma: 48 82 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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 95.46 -0.39 4.69

LAB*LABa 95.46 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 -

relative Natural Colour (NC)

lab*lrj 1.0 0.0 0.0

lab*tce 1.0 0.0 -

lab*nce 0.0 0.0 -

standard and adapted CIELAB

LAB*LAB 56.78 0.13 2.11

LAB*LABa 56.78 0.0 0.0

LAB*TCHa 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 -

lab*nch 0.5 0.0 -

relative Natural Colour (NC)

lab*lrj 0.5 0.0 0.0

lab*tce 0.5 0.0 -

lab*nce 0.5 0.0 -

standard and adapted CIELAB

LAB*LAB 18.1 0.67 -0.46

LAB*LABa 18.1 0.0 0.0

LAB*TCHa 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0

lab*tce 0.0 0.0 -

lab*nce 1.0 0.0 -

ORS18; adapted (a) CIELAB data

$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa 47.94	65.05	50.54	82.38	38
YMa 91.0	-4.72	90.58	90.7	93
LMa 50.9	-63.18	34.98	72.22	151
CMa 56.99	-39.34	-48.1	62.16	231
VMa 25.72	30.89	-44.4	54.09	305
MMa 49.99	75.76	-4.64	75.9	356
NMa 18.09	0.0	0.0	0.0	0
WMa 95.46	0.0	0.0	0.0	0
RCIE 41.88	61.66	30.69	68.88	26
JCIE 81.97	2.02	67.79	67.82	88
GCIE 51.62	-41.32	9.74	42.46	167
BCIE 29.2	-5.79	-49.61	49.96	263

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 71.7 32.45 28.38

LAB*LABa 71.7 32.52 25.26

LAB*TCHa 75.0 41.18 37.84

relative CIELAB lab*

lab*lab 0.693 0.395 0.307

lab*tch 0.75 0.5 0.105

lab*nch 0.0 0.5 0.105

relative Natural Colour (NC)

lab*lrj 0.693 0.479 0.143

lab*tce 0.75 0.5 0.046

lab*nce 0.0 0.5 r18j

standard and adapted CIELAB

LAB*LAB 33.02 32.98 25.8

LAB*LABa 33.02 32.52 25.26

LAB*TCHa 25.01 41.18 37.84

relative CIELAB lab*

lab*lab 0.193 0.395 0.307

lab*tch 0.25 0.5 0.105

lab*nch 0.5 0.5 0.105

relative Natural Colour (NC)

lab*lrj 0.193 0.479 0.143

lab*tce 0.25 0.5 0.046

lab*nce 0.5 0.5 r18j

standard and adapted CIELAB

LAB*LAB 18.1 0.67 -0.46

LAB*LABa 18.1 0.0 0.0

LAB*TCHa 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0

lab*tce 0.0 0.0 -

lab*nce 1.0 0.0 -

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 47.94 65.3 52.06

LAB*LABa 47.94 65.04 50.53

LAB*TCHa 50.0 82.36 37.84

relative CIELAB lab*

lab*lab 0.386 0.79 0.613

lab*tch 0.5 1.0 0.105

lab*nch 0.0 1.0 0.105

relative Natural Colour (NC)

lab*lrj 0.386 0.958 0.285

lab*tce 0.5 1.0 0.046

lab*nce 0.0 1.0 r18j

standard and adapted CIELAB

LAB*LAB 0.03 0.0 0.0

LAB*LABa 0.03 0.0 0.0

LAB*TCHa 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0

lab*tce 0.0 0.0 -

lab*nce 1.0 0.0 -

blackness $n^* = 0.00$ chromaticness c^* $n^* = 0.50$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$ $n^* = 1.00$

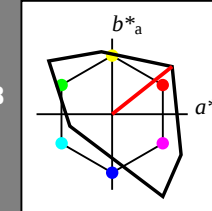
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 38/360 = 0.107$ lab^*tch and lab^*nch

D50: hue O

LCH*Ma: 54 101 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

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 0.0

LAB*LABa 95.41 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 -

relative Natural Colour (NC)

lab*lrj 1.0 0.0 0.0

lab*tce 1.0 0.0 -

lab*nce 0.0 0.0 -

standard and adapted CIELAB

LAB*LAB 74.79 39.67 31.49

LAB*LABa 74.79 39.67 31.49

LAB*TCHa 75.0 50.65 38.44

relative CIELAB lab*

lab*lab 0.784 0.392 0.311

lab*tch 0.75 0.5 0.107

lab*nch 0.0 0.5 0.107

relative Natural Colour (NC)

lab*lrj 0.784 0.479 0.142

lab*tce 0.75 0.5 0.046

lab*nce 0.0 0.5 r18j

standard and adapted CIELAB

LAB*LAB 27.1 39.67 31.49

LAB*LABa 27.1 39.67 31.49

LAB*TCHa 25.01 50.65 38.44

relative CIELAB lab*

lab*lab 0.284 0.392 0.311

lab*tch 0.25 0.5 0.107

lab*nch 0.5 0.5 0.107

relative Natural Colour (NC)

lab*lrj 0.284 0.479 0.142

lab*tce 0.25 0.5 0.046

lab*nce 0.5 0.5 r18j

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 74.79 39.67 31.49

LAB*LABa 74.79 39.67 31.49

LAB*TCHa 75.0 50.65 38.44

relative CIELAB lab*

lab*lab 0.784 0.392 0.311

lab*tch 0.75 0.5 0.107

lab*nch 0.0 0.5 0.107

relative Natural Colour (NC)

lab*lrj 0.784 0.479 0.142

lab*tce 0.75 0.5 0.046

lab*nce 0.0 0.5 r18j

standard and adapted CIELAB

LAB*LAB 27.1 39.67 31.49

LAB*LABa 27.1 39.67 31.49

LAB*TCHa 25.01 50.65 38.44

relative CIELAB lab*

lab*lab 0.284 0.392 0.311

lab*tch 0.25 0.5 0.107

lab*nch 0.5 0.5 0.107

relative Natural Colour (NC)

lab*lrj 0.284 0.479 0.142

lab*tce 0.25 0.5 0.046

lab*nce 0.5 0.5 r18j

standard and adapted CIELAB

LAB*LAB 18.1 0.67 -0.46

LAB*LABa 18.1 0.0 0.0

LAB*TCHa 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0

lab*tce 0.0 0.0 -

lab*nce 1.0 0.0 -

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 54.19 79.34 62.99

LAB*LABa 54.19 79.34 62.99

LAB*TCHa 50.0 101.31 38.44

relative CIELAB lab*

lab*lab 0.568 0.783 0.622

lab*tch 0.5 1.0 0.107

lab*nch 0.0 1.0 0.107

relative Natural Colour (NC)

lab*lrj 0.568 0.958 0.285

lab*tce 0.5 1.0 0.046

lab*nce 0.0 1.0 r18j

standard and adapted CIELAB

LAB*LAB 27.1 39.67 31.49

LAB*LABa 27.1 39.67 31.49

LAB*TCHa 25.01 50.65 38.44

relative CIELAB lab*

lab*lab 0.2

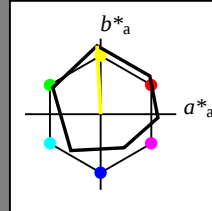
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 93/360 = 0.258$ lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 91 91 93

olv*Ma: 1.0 1.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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 95.46 -0.39 4.69

LAB*LABa 95.46 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 -

relative Natural Colour (NC)

lab*lrj 1.0 0.0 0.0

lab*tce 1.0 0.0 -

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 56.78 0.13 2.11

LAB*LABa 56.78 0.0 0.0

LAB*TCHa 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 -

lab*nch 0.5 0.0 -

relative Natural Colour (NC)

lab*lrj 0.5 0.0 0.0

lab*tce 0.5 0.0 -

lab*nce 0.5 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 18.1 0.67 -0.46

LAB*LABa 18.1 0.0 0.0

LAB*TCHa 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0

lab*tce 0.0 0.0 -

lab*nce 1.0 0.0 -

ORS18; adapted (a) CIELAB data

$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa 47.94	65.05	50.54	82.38	38
YMa 91.0	-4.72	90.58	90.7	93
LMa 50.9	-63.18	34.98	72.22	151
CMa 56.99	-39.34	-48.1	62.16	231
VMa 25.72	30.89	-44.4	54.09	305
MMa 49.99	75.76	-4.64	75.9	356
NMa 18.09	0.0	0.0	0.0	0
WMa 95.46	0.0	0.0	0.0	0
RCIE 41.88	61.66	30.69	68.88	26
JCIE 81.97	2.02	67.79	67.82	88
GCIE 51.62	-41.32	9.74	42.46	167
BCIE 29.2	-5.79	-49.61	49.96	263

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 93.22 -2.72 49.83

LAB*LABa 93.22 -2.36 45.28

LAB*TCHa 75.0 45.34 92.99

relative CIELAB lab*

lab*lab 0.971 -0.025 0.499

lab*tch 0.75 0.5 0.258

lab*nch 0.0 0.5 0.258

relative Natural Colour (NC)

lab*lrj 0.971 -0.046 0.498

lab*tce 0.75 0.5 0.265

lab*nce 0.0 0.5 0.265

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 54.55 -2.19 47.25

LAB*LABa 54.55 -2.36 45.28

LAB*TCHa 25.01 45.34 92.99

relative CIELAB lab*

lab*lab 0.471 -0.025 0.499

lab*tch 0.25 0.5 0.258

lab*nch 0.5 0.5 0.258

relative Natural Colour (NC)

lab*lrj 0.471 -0.046 0.498

lab*tce 0.25 0.5 0.265

lab*nce 0.5 0.5 0.265

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 46.73 -7.08 41.29

LAB*LABa 46.73 -7.08 41.29

LAB*TCHa 25.01 41.89 99.75

relative CIELAB lab*

lab*lab 0.49 -0.084 0.493

lab*tch 0.25 0.5 0.277

lab*nch 0.5 0.5 0.277

relative Natural Colour (NC)

lab*lrj 0.49 -0.114 0.487

lab*tce 0.25 0.5 0.287

lab*nce 0.5 0.5 0.287

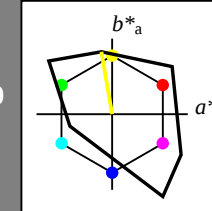
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 100/360 = 0.277$ lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 93 84 100

olv*Ma: 1.0 1.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

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 0.0

LAB*LABa 95.41 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 -

relative Natural Colour (NC)

lab*lrj 1.0 0.0 0.0

lab*tce 1.0 0.0 -

lab*nce 0.0 0.0 -

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 47.72 0.0 0.0

LAB*LABa 47.72 0.0 0.0

LAB*TCHa 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 -

lab*nch 0.5 0.0 -

relative Natural Colour (NC)

lab*lrj 0.5 0.0 0.0

lab*tce 0.5 0.0 -

lab*nce 0.5 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 0.03 0.0 0.0

LAB*LABa 0.03 0.0 0.0

LAB*TCHa 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0

lab*tce 0.0 0.0 -

lab*nce 1.0 0.0 -

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 94.42 -7.08 41.29

LAB*LABa 94.42 -7.08 41.29

LAB*TCHa 75.0 41.89 99.75

relative CIELAB lab*

lab*lab 0.99 -0.084 0.493

lab*tch 0.75 0.5 0.277

lab*nch 0.0 0.5 0.277

relative Natural Colour (NC)

lab*lrj 0.99 -0.114 0.487

lab*tce 0.75 0.5 0.287

lab*nce 0.0 0.5 0.287

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 46.73 -7.08 41.29

LAB*LABa 46.73 -7.08 41.29

LAB*TCHa 25.01 41.89 99.75

relative CIELAB lab*

lab*lab 0.49 -0.084 0.493

lab*tch 0.25 0.5 0.277

lab*nch 0.5 0.5 0.277

relative Natural Colour (NC)

lab*lrj 0.49 -0.114 0.487

lab*tce 0.25 0.5 0.287

lab*nce 0.5 0.5 0.287

TLS00; adapted (a) CIELAB data

$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa 54.19	79.36	63.0	101.33	38
YMa 93.44	-14.18	82.59	83.8	100
LMa 82.82	-83.73	70.41	109.41	140
CMa 85.22	-55.9	-15.78	58.1	196
VMa 25.61	67.05	-108.87	127.87	302
MMa 58.76	91.18	-53.69	105.82	330
NMa 0.01	0.0	0.0	0.0	0
WMa 95.41	0.0	0.0	0.0	0
RCIE 41.88	62.0	31.82	69.69	27
JCIE 81.97	1.81	71.59	71.61	89
GCIE 51.62	-41.11	11.52	42.7	164
BCIE 29.2	-5.27	-49.33	49.62	264

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 94.42 -7.08 41.29

LAB*LABa 94.42 -7.08 41.29

LAB*TCHa 75.0 41.89 99.75

relative CIELAB lab*

lab*lab 0.99 -0.084 0.493

lab*tch 0.75 0.5 0.277

lab*nch 0.0 0.5 0.277

relative Natural Colour (NC)

lab*lrj 0.99 -0.114 0.487

lab*tce 0.75 0.5 0.287

lab*nce 0.0 0.5 0.287

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 93.43 -14.18 82.57

LAB*LABa 93.43 -14.18 82.57

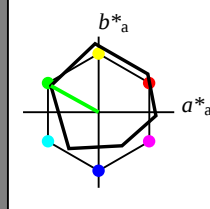
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.42$ lab^*tch and lab^*nch

D50: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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	95.46	-0.39	4.69
LAB*LABa	95.46	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.78	0.13	2.11
LAB*LABa	56.78	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 1.0$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
RCIE	41.88	61.66	30.69	68.88	26
JCIE	81.97	2.02	67.79	67.82	88
GCIE	51.62	-41.32	9.74	42.46	167
BCIE	29.2	-5.79	-49.61	49.96	263

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	73.18	-31.67	20.7
LAB*LABa	73.18	-31.58	17.49
LAB*TCHa	75.0	36.1	151.03

relative CIELAB lab*

lab*lab	0.712	-0.436	0.242
lab*tch	0.75	0.5	0.42
lab*nch	0.0	0.5	0.42

relative Natural Colour (NC)

lab*lrj	0.712	-0.474	0.155
lab*tce	0.75	0.5	0.45
lab*nce	0.0	0.5	0.42

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	34.5	-31.13	18.12
LAB*LABa	34.5	-31.58	17.49
LAB*TCHa	25.01	36.1	151.03

relative CIELAB lab*

lab*lab	0.212	-0.436	0.242
lab*tch	0.25	0.5	0.42
lab*nch	0.5	0.5	0.42

relative Natural Colour (NC)

lab*lrj	0.212	-0.474	0.155
lab*tce	0.25	0.5	0.45
lab*nce	0.5	0.5	0.42

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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 0.00$ blackness n^*

chromaticness c^*

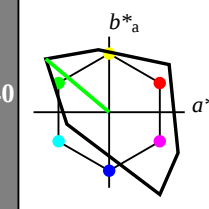
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 140/360 = 0.389$ lab^*tch and lab^*nch

D50: hue L

LCH*Ma: 83 109 140

olv*Ma: 0.0 1.0 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

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	0.0
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LABa	47.72	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 0.00$ blackness n^*

chromaticness c^*

 $n^* = 1.0$

PE100-7, 3 step scales for constant CIELAB hue 151/360 = 0.42 (left)

3 step scales for constant CIELAB hue 140/360 = 0.389 (right)

BAM-test chart PE10; Colorimetric systems ORS18 & ORS18

D50: 2 coordinate data of 3 step colour scales for 10 hues

input: olv* setrgbcolor

output: Startup (S) data dependend

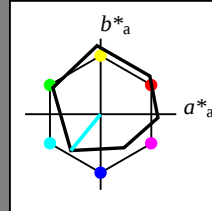
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 231/360 = 0.641$ lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 57 62 231

olv*Ma: 0.0 1.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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 95.46 -0.39 4.69

LAB*LABa 95.46 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 -

relative Natural Colour (NC)

lab*lrj 1.0 0.0 0.0

lab*tce 1.0 0.0 -

lab*nce 0.0 0.0 -

standard and adapted CIELAB

LAB*LAB 56.78 0.13 2.11

LAB*LABa 56.78 0.0 0.0

LAB*TCHa 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 -

lab*nch 0.5 0.0 -

relative Natural Colour (NC)

lab*lrj 0.5 0.0 0.0

lab*tce 0.5 0.0 -

lab*nce 0.5 0.0 -

standard and adapted CIELAB

LAB*LAB 18.1 0.67 -0.46

LAB*LABa 18.1 0.0 0.0

LAB*TCHa 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0

lab*tce 0.0 0.0 -

lab*nce 1.0 0.0 -

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 76.22 -19.8 -20.63

LAB*LABa 76.22 -19.66 -24.04

LAB*TCHa 75.0 31.07 230.72

relative CIELAB lab*

lab*lab 0.751 -0.315 -0.386

lab*tch 0.75 0.5 0.641

lab*nch 0.0 0.5 0.641

relative Natural Colour (NC)

lab*lrj 0.751 -0.252 -0.43

lab*tce 0.75 0.5 0.666

lab*nce 0.0 0.5 g66b

standard and adapted CIELAB

LAB*LAB 37.54 -19.26 -23.2

LAB*LABa 37.54 -19.66 -24.04

LAB*TCHa 25.01 31.07 230.72

relative CIELAB lab*

lab*lab 0.251 -0.315 -0.386

lab*tch 0.25 0.5 0.641

lab*nch 0.5 0.5 0.641

relative Natural Colour (NC)

lab*lrj 0.251 -0.252 -0.43

lab*tce 0.25 0.5 0.666

lab*nce 0.5 0.5 g66b

blackness n^* chromaticness c^* triangle lightness t^*

n* = 0,00

n* = 0,50

n* = 1,0

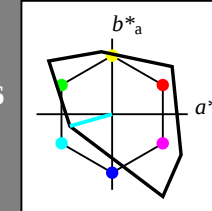
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 196/360 = 0.544$ lab^*tch and lab^*nch

D50: hue C

LCH*Ma: 85 58 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

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 0.0

LAB*LABa 95.41 0.0 0.0

LAB*TCHa 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 -

relative Natural Colour (NC)

lab*lrj 1.0 0.0 0.0

lab*tce 1.0 0.0 -

lab*nce 0.0 0.0 -

standard and adapted CIELAB

LAB*LAB 47.72 0.0 0.0

LAB*LABa 47.72 0.0 0.0

LAB*TCHa 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 -

lab*nch 0.5 0.0 -

relative Natural Colour (NC)

lab*lrj 0.5 0.0 0.0

lab*tce 0.5 0.0 -

lab*nce 0.5 0.0 -

standard and adapted CIELAB

LAB*LAB 0.03 0.0 0.0

LAB*LABa 0.03 0.0 0.0

LAB*TCHa 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0

lab*tce 0.0 0.0 -

lab*nce 1.0 0.0 -

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB 90.31 -27.94 -7.88

LAB*LABa 90.31 -27.94 -7.88

LAB*TCHa 75.0 29.04 195.77

relative CIELAB lab*

lab*lab 0.947 -0.48 -0.135

lab*tch 0.75 0.5 0.544

lab*nch 0.0 0.5 0.544

relative Natural Colour (NC)

lab*lrj 0.947 -0.439 -0.237

lab*tce 0.75 0.5 0.579

lab*nce 0.0 0.5 g31b

standard and adapted CIELAB

LAB*LAB 42.62 -27.94 -7.88

LAB*LABa 42.62 -27.94 -7.88

LAB*TCHa 25.01 29.04 195.77

relative CIELAB lab*

lab*lab 0.447 -0.48 -0.135

lab*tch 0.25 0.5 0.544

lab*nch 0.5 0.5 0.544

relative Natural Colour (NC)

lab*lrj 0.447 -0.439 -0.237

lab*tce 0.25 0.5 0.579

lab*nce 0.5 0.5 g31b

blackness n^* chromaticness c^* triangle lightness t^*

n* = 0,00

n* = 0,50

n* = 1,0

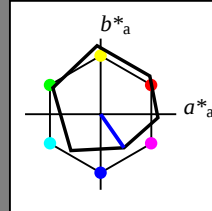
Input: Colorimetric Offset Reflective System ORS18

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

D50: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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	95.46	-0.39	4.69
LAB*LABa	95.46	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.78	0.13	2.11
LAB*LABa	56.78	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 1.0$

ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	60.59	15.52	-19.82
LAB*LABa	60.59	15.44	-22.19
LAB*TCHa	75.0	27.04	304.82

relative CIELAB lab*

lab*lab	0.549	0.285	-0.409
lab*tch	0.75	0.5	0.847
lab*nch	0.0	0.5	0.847

relative Natural Colour (NC)

lab*lrj	0.549	0.252	-0.431
lab*tce	0.75	0.5	0.834
lab*nce	0.0	0.5	0.834

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	21.91	16.06	-22.4
LAB*LABa	21.91	15.44	-22.19
LAB*TCHa	25.01	27.04	304.82

relative CIELAB lab*

lab*lab	0.049	0.285	-0.409
lab*tch	0.25	0.5	0.847
lab*nch	0.5	0.5	0.847

relative Natural Colour (NC)

lab*lrj	0.049	0.252	-0.431
lab*tce	0.25	0.5	0.834
lab*nce	0.5	0.5	0.834

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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 0.00$ blackness n^*

chromaticness c^*

0.25 0.50 0.75 1.00

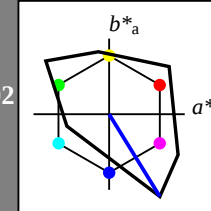
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 302/360 = 0.838$ lab^*tch and lab^*nch

D50: hue V

LCH*Ma: 26 128 302

olv*Ma: 0.0 0.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

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	0.0
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LABa	47.72	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 1.0$

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	60.51	33.52	-54.42
LAB*LABa	60.51	33.52	-54.42
LAB*TCHa	75.0	63.92	301.63

relative CIELAB lab*

lab*lab	0.634	0.262	-0.425
lab*tch	0.75	0.5	0.838
lab*nch	0.0	0.5	0.838

relative Natural Colour (NC)

lab*lrj	0.634	0.231	-0.442
lab*tce	0.75	0.5	0.827
lab*nce	0.0	0.5	0.830

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	12.82	33.52	-54.42
LAB*LABa	12.82	33.52	-54.42
LAB*TCHa	25.01	63.92	301.63

relative CIELAB lab*

lab*lab	0.134	0.262	-0.425
lab*tch	0.25	0.5	0.838
lab*nch	0.5	0.5	0.838

relative Natural Colour (NC)

lab*lrj	0.134	0.231	-0.442
lab*tce	0.25	0.5	0.827
lab*nce	0.5	0.5	0.830

 $n^* = 0.50$ blackness n^*

chromaticness c^*

0.25 0.50 0.75 1.00

PE100-7, 3 step scales for constant CIELAB hue 305/360 = 0.847 (left)

3 step scales for constant CIELAB hue 302/360 = 0.838 (right)

BAM-test chart PE10; Colorimetric systems ORS18 & ORS18

D50: 2 coordinate data of 3 step colour scales for 10 hues

input: olv* setrgbcolor

output: Startup (S) data dependend

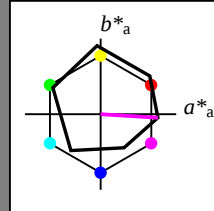
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 356/360 = 0.99$ lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 50 76 356

olv*Ma: 1.0 0.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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	95.46	-0.39	4.69
LAB*LABa	95.46	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.78	0.13	2.11
LAB*LABa	56.78	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 1.0$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
RCIE	41.88	61.66	30.69	68.88	26
JCIE	81.97	2.02	67.79	67.82	88
GCIE	51.62	-41.32	9.74	42.46	167
BCIE	29.2	-5.79	-49.61	49.96	263

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	72.72	37.79	0.86
LAB*LABa	72.72	37.87	-2.31
LAB*TCHa	75.0	37.94	356.49

relative CIELAB lab*

lab*lab	0.706	0.499	-0.03
lab*tch	0.75	0.5	0.99
lab*nch	0.0	0.5	0.99

relative Natural Colour (NC)

lab*lrj	0.706	0.464	-0.186
lab*tce	0.75	0.5	0.939
lab*nce	0.0	0.5	0.75r

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	34.04	38.32	-1.71
LAB*LABa	34.04	37.87	-2.31
LAB*TCHa	25.01	37.94	356.49

relative CIELAB lab*

lab*lab	0.206	0.499	-0.03
lab*tch	0.25	0.5	0.99
lab*nch	0.5	0.5	0.99

relative Natural Colour (NC)

lab*lrj	0.206	0.464	-0.186
lab*tce	0.25	0.5	0.939
lab*nce	0.5	0.5	0.75r

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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 0.00$ blackness n^*

chromaticness c^*

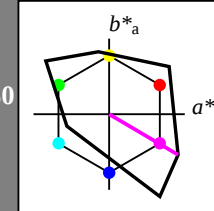
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 330/360 = 0.915$ lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 59 106 330

olv*Ma: 1.0 0.0 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

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	0.0
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LABa	47.72	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 1.0$ $n^* = 0.00$ blackness n^*

chromaticness c^*

3 step scales for constant CIELAB hue 330/360 = 0.915 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend

BAM-test chart PE10; Colorimetric systems ORS18 & ORS18

D50: 2 coordinate data of 3 step colour scales for 10 hues

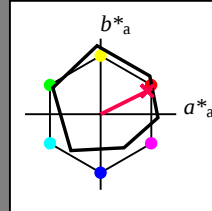
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 26/360 = 0.074$ lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 49 76 26

olv*Ma: 1.0 0.0 0.3

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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	95.46	-0.39	4.69
LAB*LABa	95.46	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.78	0.13	2.11
LAB*LABa	56.78	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	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	65.05	50.54	82.38	38
YMa 91.0	-4.72	90.58	90.7	93
LMa 50.9	-63.18	34.98	72.22	151
CMa 56.99	-39.34	-48.1	62.16	231
VMa 25.72	30.89	-44.4	54.09	305
MMa 49.99	75.76	-4.64	75.9	356
NMa 18.09	0.0	0.0	0.0	0
WMa 95.46	0.0	0.0	0.0	0
RCIE 41.88	61.66	30.69	68.88	26
JCIE 81.97	2.02	67.79	67.82	88
GCIE 51.62	-41.32	9.74	42.46	167
BCIE 29.2	-5.79	-49.61	49.96	263

relative Inform. Technology (IT)

olvi3*	1.0	0.5	0.65	(1.0)
cmyn3*	0.0	0.5	0.35	(0.0)
olvi4*	1.0	0.5	0.65	1.0
cmyn4*	0.0	0.5	0.35	0.0

standard and adapted CIELAB

LAB*LAB	72.0	34.05	20.12
LAB*LABa	72.0	34.13	16.99
LAB*TCHa	75.0	38.12	26.46

relative CIELAB lab*

lab*lab	0.697	0.448	0.223
lab*tch	0.75	0.5	0.074
lab*nch	0.0	0.5	0.074

relative Natural Colour (NC)

lab*lrj	0.697	0.5	0.0
lab*tce	0.75	0.5	1.0
lab*nce	0.0	0.5	0.99r

relative Inform. Technology (IT)

olvi3*	0.5	0.0	0.15	(1.0)
cmyn3*	0.5	1.0	0.85	(0.0)
olvi4*	1.0	0.5	0.65	0.5
cmyn4*	0.0	0.5	0.35	0.5

standard and adapted CIELAB

LAB*LAB	33.33	34.58	17.55
LAB*LABa	33.33	34.13	16.99
LAB*TCHa	25.01	38.12	26.47

relative CIELAB lab*

lab*lab	0.197	0.447	0.223
lab*tch	0.25	0.5	0.074
lab*nch	0.5	0.5	0.074

relative Natural Colour (NC)

lab*lrj	0.197	0.5	0.0
lab*tce	0.25	0.5	0.0
lab*nce	0.5	0.5	0.074

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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 0.00$ blackness n^* chromaticness c^*

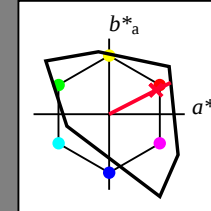
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 27/360 = 0.075$ lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 55 92 27

olv*Ma: 1.0 0.0 0.18

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

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	0.0
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LABa	47.72	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 1.0$ $n^* = 0.00$ blackness n^* chromaticness c^*

TLS00; adapted (a) CIELAB data

$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa 54.19	79.36	63.0	101.33	38
YMa 93.44	-14.18	82.59	83.8	100
LMa 82.82	-83.73	70.41	109.41	140
CMa 85.22	-55.9	-15.78	58.1	196
VMa 25.61	67.05	-108.87	127.87	302
MMa 58.76	91.18	-53.69	105.82	330
NMa 0.01	0.0	0.0	0.0	0
WMa 95.41	0.0	0.0	0.0	0
RCIE 41.88	62.0	31.82	69.69	27
JCIE 81.97	1.81	71.59	71.61	89
GCIE 51.62	-41.11	11.52	42.7	164
BCIE 29.2	-5.27	-49.33	49.62	264

relative Inform. Technology (IT)

olvi3*	1.0	0.5	0.591	(1.0)
cmyn3*	0.0	0.5	0.409	(0.0)
olvi4*	1.0	0.5	0.591	1.0
cmyn4*	0.0	0.5	0.409	0.0

standard and adapted CIELAB

LAB*LAB	75.21	40.74	20.91
LAB*LABa	75.21	40.74	20.91
LAB*TCHa	75.0	45.8	27.17

relative CIELAB lab*

lab*lab	0.788	0.445	0.228
lab*tch	0.75	0.5	0.075
lab*nch	0.0	0.5	0.075

relative Natural Colour (NC)

lab*lrj	0.788	0.5	0.0
lab*tce	0.75	0.5	1.0
lab*nce	0.0	0.5	0.99r

relative Inform. Technology (IT)

olvi3*	0.5	0.0	0.091	(1.0)
cmyn3*	0.5	1.0	0.909	(0.0)
olvi4*	1.0	0.5	0.591	0.5
cmyn4*	0.0	0.5	0.409	0.5

standard and adapted CIELAB

LAB*LAB	27.52	40.74	20.92
LAB*LABa	27.52	40.74	20.92
LAB*TCHa	25.01	45.8	27.18

relative CIELAB lab*

lab*lab	0.288	0.445	0.228
lab*tch	0.25	0.5	0.075
lab*nch	0.5	0.5	0.075

relative Natural Colour (NC)

lab*lrj	0.288	0.5	0.0
lab*tce	0.25	0.5	0.0
lab*nce	0.5	0.5	0.075

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	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

3 step scales for constant CIELAB hue 27/360 = 0.075 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend

BAM-test chart PE10; Colorimetric systems ORS18 & ORS18

D50: 2 coordinate data of 3 step colour scales for 10 hues

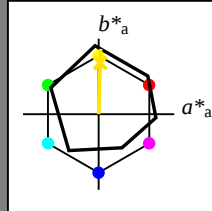
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 88/360 = 0.245$ lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 86 86 88

olv*Ma: 1.0 0.9 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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	95.46	-0.39	4.69
LAB*LABa	95.46	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.78	0.13	2.11
LAB*LABa	56.78	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	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	65.05	50.54	82.38	38
YMa 91.0	-4.72	90.58	90.7	93
LMa 50.9	-63.18	34.98	72.22	151
CMa 56.99	-39.34	-48.1	62.16	231
VMa 25.72	30.89	-44.4	54.09	305
MMa 49.99	75.76	-4.64	75.9	356
NMa 18.09	0.0	0.0	0.0	0
WMa 95.46	0.0	0.0	0.0	0
RCIE 41.88	61.66	30.69	68.88	26
JCIE 81.97	2.02	67.79	67.82	88
GCIE 51.62	-41.32	9.74	42.46	167
BCIE 29.2	-5.79	-49.61	49.96	263

relative Inform. Technology (IT)

olvi3*	1.0	0.948	0.5	(1.0)
cmyn3*	0.0	0.052	0.5	(0.0)
olvi4*	1.0	0.948	0.5	1.0
cmyn4*	0.0	0.052	0.5	0.0

standard and adapted CIELAB

LAB*LAB	90.97	0.94	47.59
LAB*LABa	90.97	1.28	43.19
LAB*TCHa	75.0	43.21	88.3

relative CIELAB lab*

lab*lab	0.942	0.015	0.5
lab*tch	0.75	0.5	0.245
lab*nch	0.0	0.5	0.245

relative Natural Colour (NC)

lab*lrj	0.942	0.0	0.5
lab*tce	0.75	0.5	0.25
lab*nce	0.0	0.5	j00g

relative Inform. Technology (IT)

olvi3*	0.5	0.448	0.0	(1.0)
cmyn3*	0.5	0.552	1.0	(0.0)
olvi4*	1.0	0.948	0.5	0.5
cmyn4*	0.0	0.052	0.5	0.5

standard and adapted CIELAB

LAB*LAB	52.29	1.49	45.0
LAB*LABa	52.29	1.29	43.18
LAB*TCHa	25.01	43.2	88.29

relative CIELAB lab*

lab*lab	0.442	0.015	0.5
lab*tch	0.25	0.5	0.245
lab*nch	0.5	0.5	0.245

relative Natural Colour (NC)

lab*lrj	0.442	0.0	0.5
lab*tce	0.25	0.5	0.25
lab*nce	0.5	0.5	r99j

 $n^* = 0.50$

relative Inform. Technology (IT)

olvi3*	1.0	0.895	0.0	(1.0)
cmyn3*	0.0	0.105	1.0	(0.0)
olvi4*	1.0	0.895	0.0	1.0
cmyn4*	0.0	0.105	1.0	0.0

standard and adapted CIELAB

LAB*LAB	86.49	2.3	90.47
LAB*LABa	86.49	2.57	86.37
LAB*TCHa	50.0	86.41	88.29

relative CIELAB lab*

lab*lab	0.884	0.03	0.999
lab*tch	0.5	1.0	0.245
lab*nch	0.0	1.0	0.245

relative Natural Colour (NC)

lab*lrj	0.884	0.0	1.0
lab*tce	0.5	1.0	0.25
lab*nce	0.0	1.0	j00g

 $n^* = 0.00$ blackness n^* $n^* = 1.00$ chromaticness c^*

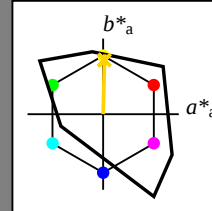
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 89/360 = 0.246$ lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 87 79 89

olv*Ma: 1.0 0.83 0.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

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	0.0
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LABa	47.72	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 1.0$

3 step scales for constant CIELAB hue 89/360 = 0.246 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend

BAM-test chart PE10; Colorimetric systems ORS18 & ORS18

D50: 2 coordinate data of 3 step colour scales for 10 hues

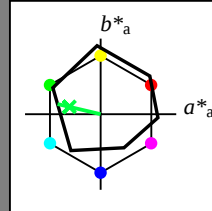
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 167/360 = 0.463$ lab^*tch and lab^*nch

D50: hue G

LCH*Ma: 52 59 167

olv*Ma: 0.0 1.0 0.26

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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	95.46	-0.39	4.69
LAB*LABa	95.46	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.78	0.13	2.11
LAB*LABa	56.78	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	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	65.05	50.54	82.38	38
YMa	91.0	-4.72	90.58	90.7	93
LMa	50.9	-63.18	34.98	72.22	151
CMa	56.99	-39.34	-48.1	62.16	231
VMa	25.72	30.89	-44.4	54.09	305
MMa	49.99	75.76	-4.64	75.9	356
NMa	18.09	0.0	0.0	0.0	0
WMa	95.46	0.0	0.0	0.0	0
RCIE	41.88	61.66	30.69	68.88	26
JCIE	81.97	2.02	67.79	67.82	88
GCIE	51.62	-41.32	9.74	42.46	167
BCIE	29.2	-5.79	-49.61	49.96	263

relative Inform. Technology (IT)

olvi3*	0.5	1.0	0.63	(1.0)
cmyn3*	0.5	0.0	0.37	(0.0)
olvi4*	0.5	1.0	0.63	1.0
cmyn4*	0.5	0.0	0.37	0.0

standard and adapted CIELAB

LAB*LAB	73.97	-28.59	9.98
LAB*LABa	73.97	-28.49	6.72
LAB*TCHa	75.0	29.28	166.74

relative CIELAB lab*

lab*lab	0.722	-0.486	0.115
lab*tch	0.75	0.5	0.463
lab*nch	0.0	0.5	0.463

relative Natural Colour (NC)

lab*lrj	0.722	-0.499	0.0
lab*tce	0.75	0.5	0.5
lab*nce	0.0	0.5	g00b

relative Inform. Technology (IT)

olvi3*	0.0	0.5	0.13	(1.0)
cmyn3*	1.0	0.5	0.87	(0.0)
olvi4*	0.5	1.0	0.63	0.5
cmyn4*	0.5	0.0	0.37	0.5

standard and adapted CIELAB

LAB*LAB	35.29	-28.06	7.41
LAB*LABa	35.29	-28.49	6.73
LAB*TCHa	25.01	29.28	166.72

relative CIELAB lab*

lab*lab	0.222	-0.486	0.115
lab*tch	0.25	0.5	0.463
lab*nch	0.5	0.5	0.463

relative Natural Colour (NC)

lab*lrj	0.222	-0.499	0.0
lab*tce	0.25	0.5	0.5
lab*nce	0.5	0.5	g99g

 $n^* = 0.50$ $n^* = 0.50$ $n^* = 0.50$ $n^* = 0.50$ $n^* = 0.50$ $n^* = 0.50$ $n^* = 0.50$ $n^* = 0.50$ $n^* = 0.50$ $n^* = 0.50$ $n^* = 0.50$

relative Inform. Technology (IT)

olvi3*	0.0	1.0	0.259	(1.0)
cmyn3*	1.0	0.0	0.741	(0.0)
olvi4*	0.0	1.0	0.259	1.0
cmyn4*	1.0	0.0	0.741	0.0

standard and adapted CIELAB

LAB*LAB	52.48	-56.79	15.28
LAB*LABa	52.48	-56.99	13.44
LAB*TCHa	50.0	58.56	166.73

relative CIELAB lab*

lab*lab	0.444	-0.972	0.229
lab*tch	0.5	1.0	0.463
lab*nch	0.0	1.0	0.463

relative Natural Colour (NC)

lab*lrj	0.444	-0.999	0.0
lab*tce	0.5	1.0	0.5
lab*nce	0.0	1.0	g99g

 $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$ $n^* = 0.00$

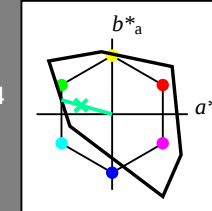
Output: Colorimetric Television Luminous System TLS00

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

D50: hue G

LCH*Ma: 84 70 164

olv*Ma: 0.0 1.0 0.6

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

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	0.0
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LABa	47.72	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 1.0$ $n^* = 1.0$ $n^* = 1.0$ $n^* = 1.0$ $n^* = 1.0$ $n^* = 1.0$

TLS00; adapted (a) CIELAB data

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

OMa	54.19	79.36	63.0	101.33	38
YMa	93.44	-14.18	82.59	83.8	100
LMa	82.82	-83.73	70.41	109.41	140
CMa	85.22	-55.9	-15.78	58.1	196
VMa	25.61	67.05	-108.87	127.87	302
MMa	58.76	91.18	-53.69	105.82	330
NMa	0.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	41.88	62.0	31.82	69.69	27
JCIE	81.97	1.81	71.59	71.61	89
GCIE	51.62	-41.11	11.52	42.7	164
BCIE	29.2	-5.27	-49.33	49.62	264

relative Inform. Technology (IT)

olvi3*	0.5	1.0	0.799	(1.0)
cmyn3*	0.5	0.0	0.201	(0.0)
olvi4*	0.5	1.0	0.8	1.0
cmyn4*	0.5	0.0	0.2	0.0

standard and adapted CIELAB

LAB*LAB	89.83	-33.52	9.39
LAB*LABa	89.83	-33.52	9.39
LAB*TCHa	75.0	34.82	164.36

relative CIELAB lab*

lab*lab	0.941	-0.48	0.135
lab*tch	0.75	0.5	0.457
lab*nch	0.0	0.5	0.457

relative Natural Colour (NC)

lab*lrj	0.941	-0.499	0.0
lab*tce	0.75	0.5	0.5
lab*nce	0.0	0.5	g00b

relative Inform. Technology (IT)

olvi3*	0.0	0.5	0.299	(1.0)
cmyn3*	1.0	0.5	0.701	(0.0)
olvi4*	0.5	1.0	0.799	0.5
cmyn4*	0.5	0.0	0.201	0.5

standard and adapted CIELAB

LAB*LAB	42.13	-33.52	9.4
LAB*LABa	42.13	-33.52	9.4
LAB*TCHa	25.01	34.82	164.34

relative CIELAB lab*

lab*lab	0.442	-0.48	0.135
lab*tch	0.25	0.5	0.457

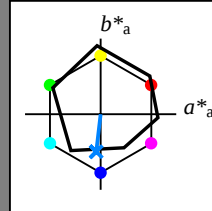
Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 263/360 = 0.731$ lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 42 47 263

olv*Ma: 0.0 0.52 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

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	95.46	-0.39	4.69
LAB*LABa	95.46	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.78	0.13	2.11
LAB*LABa	56.78	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	18.1	0.67	-0.46
LAB*LABa	18.1	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	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	65.05	50.54	82.38	38
YMa 91.0	-4.72	90.58	90.7	93
LMa 50.9	-63.18	34.98	72.22	151
CMa 56.99	-39.34	-48.1	62.16	231
VMa 25.72	30.89	-44.4	54.09	305
MMa 49.99	75.76	-4.64	75.9	356
NMa 18.09	0.0	0.0	0.0	0
WMa 95.46	0.0	0.0	0.0	0
RCIE 41.88	61.66	30.69	68.88	26
JCIE 81.97	2.02	67.79	67.82	88
GCIE 51.62	-41.32	9.74	42.46	167
BCIE 29.2	-5.79	-49.61	49.96	263

%Gamut

 $u^*_{rel} = 94$

%Regularity

 $g^*_{H,rel} = 65$ $g^*_{C,rel} = 60$

relative Inform. Technology (IT)

olvi3*	0.5	0.758	1.0	(1.0)
cmyn3*	0.5	0.242	0.0	(0.0)
olvi4*	0.5	0.758	1.0	1.0
cmyn4*	0.5	0.242	0.0	0.0

standard and adapted CIELAB

LAB*LAB	68.67	-2.73	-20.23
LAB*LABa	68.67	-2.7	-23.15
LAB*TCHa	75.0	23.32	263.33

relative CIELAB lab*

lab*lab	0.654	-0.057	-0.496
lab*tch	0.75	0.5	0.731
lab*nch	0.0	0.5	0.731

relative Natural Colour (NC)

lab*lrj	0.654	0.0	-0.499
lab*tce	0.75	0.5	0.75
lab*nce	0.0	0.5	g99b

relative Inform. Technology (IT)

olvi3*	0.0	0.258	0.5	(1.0)
cmyn3*	1.0	0.742	0.5	(0.0)
olvi4*	0.5	0.758	1.0	0.5
cmyn4*	0.5	0.242	0.0	0.5

standard and adapted CIELAB

LAB*LAB	29.99	-2.19	-22.81
LAB*LABa	29.99	-2.69	-23.15
LAB*TCHa	25.01	23.31	263.35

relative CIELAB lab*

lab*lab	0.154	-0.057	-0.496
lab*tch	0.25	0.5	0.732
lab*nch	0.5	0.5	0.732

relative Natural Colour (NC)

lab*lrj	0.154	0.0	-0.499
lab*tce	0.25	0.5	0.75
lab*nce	0.5	0.5	g99r

 $n^* = 0.50$

blackness n^*

$n^* = 0.00$

chromaticness c^*

$n^* = 1.0$

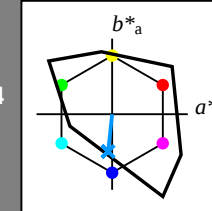
Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 264/360 = 0.733$ lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 61 54 264

olv*Ma: 0.0 0.59 1.0

triangle lightness t^* 

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

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	0.0
LAB*LABa	95.41	0.0	0.0
LAB*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	0.0	-
lab*nch	0.0	0.0	-

relative Natural Colour (NC)

lab*lrj	1.0	0.0	0.0
lab*tce	1.0	0.0	-
lab*nce	0.0	0.0	-

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LABa	47.72	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.03	0.0	0.0
LAB*LABa	0.03	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

 $n^* = 1.0$

blackness n^*

$n^* = 0.00$

chromaticness c^*

$n^* = 1.0$

TLS00; adapted (a) CIELAB data

$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa 54.19	79.36	63.0	101.33	38
YMa 93.44	-14.18	82.59	83.8	100
LMa 82.82	-83.73	70.41	109.41	140
CMa 85.22	-55.9	-15.78	58.1	196
VMa 25.61	67.05	-108.87	127.87	302
MMa 58.76	91.18	-53.69	105.82	330
NMa 0.01	0.0	0.0	0.0	0
WMa 95.41	0.0	0.0	0.0	0
RCIE 41.88	62.0	31.82	69.69	27
JCIE 81.97	1.81	71.59	71.61	89
GCIE 51.62	-41.11	11.52	42.7	164
BCIE 29.2	-5.27	-49.33	49.62	264

%Gamut

 $u^*_{rel} = 156$

%Regularity

 $g^*_{H,rel} = 26$ $g^*_{C,rel} = 45$

relative Inform. Technology (IT)

olvi3*	0.5	0.796	1.0	(1.0)
cmyn3*	0.5	0.204	0.0	(0.0)
olvi4*	0.5	0.796	1.0	1.0
cmyn4*	0.5	0.204	0.0	0.0

standard and adapted CIELAB

LAB*LAB	78.15	-2.87	-26.86
LAB*LABa	78.15	-2.87	-26.86
LAB*TCHa	75.0	27.02	263.88

relative CIELAB lab*

lab*lab	0.819	-0.052	-0.496
lab*tch	0.75	0.5	0.733
lab*nch	0.0	0.5	0.733

relative Natural Colour (NC)

lab*lrj	0.819	0.0	-0.499
lab*tce	0.75	0.5	0.75
lab*nce	0.0	0.5	g99b

relative Inform. Technology (IT)

olvi3*	0.0	0.296	0.5	(1.0)
cmyn3*	1.0	0.704	0.5	(0.0)
olvi4*	0.5	0.796	1.0	0.5
cmyn4*	0.5	0.204	0.0	0.5

standard and adapted CIELAB

LAB*LAB	30.46	-2.86	-26.87
LAB*LABa	30.46	-2.86	-26.87
LAB*TCHa	25.01	27.03	263.9

relative CIELAB lab*

lab*lab	0.319	-0.052	-0.496
lab*tch	0.25	0.5	0.733
lab*nch	0.5	0.5	0.733

relative Natural Colour (NC)

lab*lrj	0.319	0.0	-0.499
lab*tce	0.25	0.5	0.75
lab*nce	0.5	0.5	g99r

 $n^* = 0.50$

blackness n^*

$n^* = 0.00$

chromaticness c^*

$n^* = 1.0$

PE100-7, 3 step scales for constant CIELAB hue 263/360 = 0.731 (left)

3 step scales for constant CIELAB hue 264/360 = 0.733 (right)

BAM-test chart PE10; Colorimetric systems ORS18 & ORS18

D50: 2 coordinate data of 3 step colour scales for 10 hues

input: olv* setrgbcolor

output: Startup (S) data dependend