

Input: Colorimetric Offset Reflective System ORS18

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

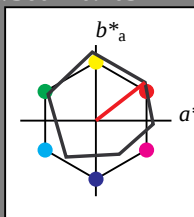
lab^*tch and lab^*nch

D50: hue O

LCH*Ma: 48 82 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



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

%Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	95.46	-39.34	4.69
LAB*Lab	95.46	0.0	0.0
LAB*Lab	95.46	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

lab*trj	1.0	0.0	0.0
lab*tce	1.0	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.75	(1.0)
cmyn3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*Lab	83.58	16.02	16.54
LAB*Lab	83.58	16.26	12.63
LAB*Lab	83.58	16.26	12.63

relative CIELAB lab*

lab*lab	0.846	0.197	0.153
lab*tch	0.875	0.25	0.105
lab*nch	0.0	0.25	0.105

relative Natural Colour (NC)

lab*trj	0.846	0.24	0.071
lab*tce	0.875	0.25	0.046
lab*nce	0.0	0.25	0.119

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.5	(1.0)
cmyn3*	0.0	0.5	0.5	(0.0)
olv4*	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*Lab	71.7	32.52	25.26
LAB*Lab	71.7	32.52	25.26

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*trj	0.693	0.479	0.143
lab*tce	0.75	0.5	0.046
lab*nce	0.0	0.5	0.119

relative Inform. Technology (IT)

olv3*	1.0	0.25	0.25	(1.0)
cmyn3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*Lab	59.82	48.88	40.22
LAB*Lab	59.82	48.78	37.9
LAB*Lab	59.82	48.78	37.9

relative CIELAB lab*

lab*lab	0.539	0.592	0.46
lab*tch	0.625	0.75	0.105
lab*nch	0.0	0.75	0.105

relative Natural Colour (NC)

lab*trj	0.539	0.719	0.214
lab*tce	0.625	0.75	0.046
lab*nce	0.0	0.75	0.119

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmyn3*	0.0	1.0	1.0	(0.0)
olv4*	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*Lab	47.94	65.04	50.53
LAB*Lab	47.94	65.04	50.53

relative CIELAB lab*

lab*lab	0.388	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*trj	0.388	0.958	0.285
lab*tce	0.5	1.0	0.046
lab*nce	0.0	1.0	0.119

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	47.94	65.3	52.06
LAB*Lab	47.94	65.04	50.53
LAB*Lab	47.94	65.04	50.53

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.25	(1.0)
cmyn3*	0.5	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75

relative CIELAB lab*

lab*lab	0.392	0.196	0.155
lab*tch	0.375	0.25	0.107
lab*nch	0.0	0.25	0.107

relative Natural Colour (NC)

lab*trj	0.392	0.24	0.071
lab*tce	0.375	0.25	0.046
lab*nce	0.0	0.25	0.119

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*Lab	50.95	39.68	31.5
LAB*Lab	50.95	39.68	31.5
LAB*Lab	50.95	39.68	31.5

relative CIELAB lab*

lab*lab	0.392	0.392	0.311
lab*tch	0.375	0.5	0.107
lab*nch	0.0	0.5	0.107

relative Natural Colour (NC)

lab*trj	0.392	0.479	0.142
lab*tce	0.375	0.5	0.046
lab*nce	0.0	0.5	0.119

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.25	(1.0)
cmyn3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*Lab	40.65	59.51	47.24
LAB*Lab	40.65	59.51	47.24
LAB*Lab	40.65	59.51	47.24

relative CIELAB lab*

lab*lab	0.426	0.587	0.466
lab*tch	0.375	0.75	0.107
lab*nch	0.0	0.75	0.107

relative Natural Colour (NC)

lab*trj	0.426	0.719	0.213
lab*tce	0.375	0.75	0.046
lab*nce	0.0	0.75	0.119

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmyn3*	0.0	1.0	1.0	(0.0)
olv4*	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*Lab	54.19	79.34	62.99
LAB*Lab	54.19	79.34	62.99

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*trj	0.568	0.958	0.285
lab*tce	0.5	1.0	0.046
lab*nce	0.0	1.0	0.119

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75

relative CIELAB lab*

lab*lab	0.3	0.0	0.0
lab*tch	0.3	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.3	0.0	0.0
lab*tce	0.3	0.0	0.0
lab*nce	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*Lab	44.5	16.56	13.96
LAB*Lab	44.5	16.56	13.96
LAB*Lab	44.5	16.56	13.96

relative CIELAB lab*

lab*lab	0.346	0.197	0.153
lab*tch	0.375	0.25	0.105
lab*nch	0.0	0.25	0.105

relative Natural Colour (NC)

lab*trj	0.346	0.24	0.071
lab*tce	0.375	0.25	0.046
lab*nce	0.0	0.25	0.119

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmyn3*	0.25	0.75	0.75	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*Lab	33.02	32.96	25.36
LAB*Lab	33.02	32.96	25.36
LAB*Lab	33.02	32.96	25.36

relative CIELAB lab*

lab*lab	0.443	0.479	0.143
lab*tch	0.443	0.479	0.143
lab*nch	0.0	0.479	0.143

relative Natural Colour (NC)

lab*trj	0.443	0.479	0.143
lab*tce	0.443	0.479	0.143
lab*nce	0.0	0.479	0.143

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.0	(1.0)
cmyn3*	0.75	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	25.01	41.18	37.84
LAB*Lab	25.01	41.18	37.84
LAB*Lab	25.01	41.18	37.84

relative CIELAB lab*

lab*lab	0.289	0.592	0.46
lab*tch	0.375	0.75	0.105
lab*nch	0.0	0.75	0.105

relative Natural Colour (NC)

lab*trj	0.289	0.719	0.214
lab*tce	0.375	0.75	0.046
lab*nce	0.0	0.75	0.119

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	0.0	0.0	0.0
LAB*Lab	0.0	0.0	0.0
LAB*Lab	0.0	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75

relative CIELAB lab*

lab*lab	0.392	0.196	0.155
lab*tch	0.375	0.25	0.107
lab*nch	0.0	0.25	0.107

relative Natural Colour (NC)

lab*trj	0.392	0.24	0.071
lab*tce	0.375	0.25	0.046
lab*nce	0.0	0.25	0.119

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.25	(1.0)
cmyn3*	0.5	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmyn4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75

relative CIELAB lab*

lab*lab	0.392	0.196	0.155
lab*tch	0.375	0.25	0.107
lab*nch	0.0	0.25	0.107

relative Natural Colour (NC)

lab*trj	0.392	0.24	0.071
lab*tce	0.375	0.25	0.046
lab*nce	0.0	0.25	0.119

360 = 0.107 (right)

/kcolor

data dependence

Input: Colorimetric Offset Reflective System ORS18

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

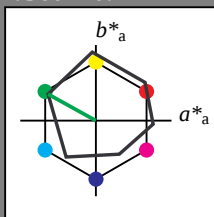
lab^*tch and lab^*nch

D50: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



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

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.46 -39.34 4.69
LAB*LAB 95.46 0.0 0.0
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.12 -0.12 3.4
LAB*LAB 76.12 0.0 0.0
LAB*LAB 75.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.78 0.0 2.11
LAB*LAB 56.78 0.0 0.0
LAB*LAB 55.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.44 -0.37 0.82
LAB*LAB 37.44 0.0 0.0
LAB*LAB 35.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.46
LAB*LAB 18.1 0.0 0.0
LAB*LAB 18.00 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 -
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.75 (1.0)
cmyn3* 0.25 0.0 0.75 (0.0)
olv4* 1.0 0.75 1.0 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 84.32 -16.03 12.7
LAB*LAB 84.32 -15.78 8.74
LAB*LAB 87.5 18.05 15.03

relative CIELAB lab*
lab*lab 0.856 -0.218 0.121
lab*tch 0.875 0.25 0.42
lab*nch 0.0 0.25 0.42
relative Natural Colour (NC)
lab*trj 0.856 -0.237 0.077
lab*tce 0.875 0.25 0.45
lab*nce 0.0 0.25 1.798

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.5 (1.0)
cmyn3* 0.5 0.25 0.5 (0.0)
olv4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 64.98 -15.76 11.41
LAB*LAB 64.98 -15.78 7.75
LAB*LAB 62.5 18.06 15.03

relative CIELAB lab*
lab*lab 0.606 -0.218 0.121
lab*tch 0.625 0.25 0.42
lab*nch 0.0 0.25 0.42
relative Natural Colour (NC)
lab*trj 0.606 -0.237 0.077
lab*tce 0.625 0.25 0.45
lab*nce 0.25 0.25 1.798

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 45.64 -15.5 10.12
LAB*LAB 45.64 -15.78 7.75
LAB*LAB 43.75 18.06 15.03

relative CIELAB lab*
lab*lab 0.356 -0.218 0.121
lab*tch 0.375 0.25 0.42
lab*nch 0.0 0.25 0.42
relative Natural Colour (NC)
lab*trj 0.356 -0.237 0.077
lab*tce 0.375 0.25 0.45
lab*nce 0.5 0.25 1.798

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.0 (1.0)
cmyn3* 1.0 0.5 1.0 (0.0)
olv4* 0.5 0.75 0.5 (1.0)
cmyn4* 0.5 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 34.5 -31.58 17.49
LAB*LAB 34.5 -31.58 17.49
LAB*LAB 35.01 36.11 15.03

relative CIELAB lab*
lab*lab 0.212 -0.436 0.242
lab*tch 0.25 0.5 0.42
lab*nch 0.0 0.5 0.42
relative Natural Colour (NC)
lab*trj 0.212 -0.474 0.155
lab*tce 0.25 0.5 0.45
lab*nce 0.5 0.5 1.798

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.0 0.5 (0.0)
olv4* 0.5 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 73.18 -31.58 17.49
LAB*LAB 73.18 -31.58 17.49
LAB*LAB 75.0 36.11 15.03

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*trj 0.712 -0.474 0.155
lab*tce 0.75 0.5 0.45
lab*nce 0.0 0.5 1.798

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.75 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 62.04 -47.31 28.7
LAB*LAB 62.04 -47.31 28.7
LAB*LAB 62.5 54.16 15.03

relative CIELAB lab*
lab*lab 0.568 -0.655 0.363
lab*tch 0.625 0.75 0.42
lab*nch 0.0 0.75 0.42
relative Natural Colour (NC)
lab*trj 0.568 -0.712 0.232
lab*tce 0.625 0.75 0.45
lab*nce 0.0 0.75 1.798

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.0 (1.0)
cmyn3* 1.0 0.0 1.0 (0.0)
olv4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.9 -62.95 36.7
LAB*LAB 50.9 -63.16 34.97
LAB*LAB 50.0 72.21 15.03

relative CIELAB lab*
lab*lab 0.424 -0.874 0.484
lab*tch 0.5 1.0 0.42
lab*nch 0.0 1.0 0.42
relative Natural Colour (NC)
lab*trj 0.424 -0.95 0.309
lab*tce 0.5 1.0 0.45
lab*nce 0.0 1.0 1.798

$n^* = 0.25$

$n^* = 0.25$

$n^* = 0.25$

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.75 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 42.74 -47.04 27.41
LAB*LAB 42.74 -47.31 28.7
LAB*LAB 43.75 54.16 15.03

relative CIELAB lab*
lab*lab 0.318 -0.655 0.363
lab*tch 0.375 0.75 0.42
lab*nch 0.0 0.75 0.42
relative Natural Colour (NC)
lab*trj 0.318 -0.712 0.232
lab*tce 0.375 0.75 0.45
lab*nce 0.25 0.75 1.798

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.0 (1.0)
cmyn3* 1.0 0.25 1.0 (0.0)
olv4* 0.0 1.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 42.74 -47.04 27.41
LAB*LAB 42.74 -47.31 28.7
LAB*LAB 43.75 54.16 15.03

relative CIELAB lab*
lab*lab 0.318 -0.655 0.363
lab*tch 0.375 0.75 0.42
lab*nch 0.0 0.75 0.42
relative Natural Colour (NC)
lab*trj 0.318 -0.712 0.232
lab*tce 0.375 0.75 0.45
lab*nce 0.25 0.75 1.798

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

$n^* = 0.00$

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.25 0.5 (0.0)
olv4* 0.5 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.75 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 50.9 -62.95 36.7
LAB*LAB 50.9 -63.16 34.97
LAB*LAB 50.0 72.21 15.03

relative CIELAB lab*
lab*lab 0.424 -0.874 0.484
lab*tch 0.5 1.0 0.42
lab*nch 0.0 1.0 0.42
relative Natural Colour (NC)
lab*trj 0.424 -0.95 0.309
lab*tce 0.5 1.0 0.45
lab*nce 0.0 1.0 1.798

$n^* = 0.25$

$n^* = 0.25$

$n^* = 0.25$

$n^* = 0.25$

$n^* = 0.25$

Output: Colorimetric Television Luminous System TLS00

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

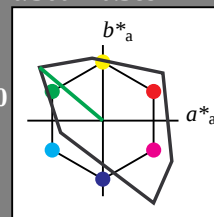
lab^*tch and lab^*nch

D50: hue L

LCH*Ma: 83 109 140

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



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

%Regularity

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

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

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

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.0 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.25 0.5 (0.0)
olv4* 0.5 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 75.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.75 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 50.9 -62.95 36.7
LAB*LAB 50.9 -63.16 34.97
LAB*LAB 50.0 72.21 15.03

relative CIELAB lab*
lab*lab 0.424 -0.874 0.484
lab*tch 0.5 1.0 0.42
lab*nch 0.0 1.0 0.42
relative Natural Colour (NC)
lab*trj 0.424 -0.95 0.309
lab*tce 0.5 1.0 0.45
lab*nce 0.0 1.0 1.798

$n^* = 1.0$

$n^* = 1.0$

$n^* = 1.0$

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.0 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 99.99 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.5 (1.0)
cmyn3* 0.5 0.25 0.5 (0.0)
olv4* 0.75 1.0 0.75 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 68.41 -20.93 17.6
LAB*LAB 68.41 -20.93 17.6
LAB*LAB 62.5 27.34 139.94

relative CIELAB lab*
lab*lab 0.924 -0.436 0.242
lab*tch 0.934 -0.382 0.322
lab*nch 0.0 0.389
relative Natural Colour (NC)
lab*trj 0.924 -0.436 0.242
lab*tce 0.934 -0.382 0.322
lab*nce 0.0 0.389

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.75 0.25 0.75 (0.0)
olv4* 0.25 1.0 0.25 (1.0)
cmyn4* 0.75 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 65.26 -41.86 35.21
LAB*LAB 65.26 -41.86 35.21
LAB*LAB 50.0 54.7 139.94

relative CIELAB lab*
lab*lab 0.652 -0.72 0.419
lab*tch 0.652 -0.72 0.419
lab*nch 0.0 0.75 0.678
relative Natural Colour (NC)
lab*trj 0.652 -0.72 0.419

Input: Colorimetric Offset Reflective System ORS18

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

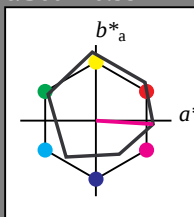
lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 50 76 356

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



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

%Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv6*	0.0	0.0	0.0	(0.0)
olv7*	1.0	1.0	1.0	(1.0)
olv8*	0.0	0.0	0.0	(0.0)
olv9*	1.0	1.0	1.0	(1.0)
olv10*	0.0	0.0	0.0	(0.0)
olv11*	1.0	1.0	1.0	(1.0)
olv12*	0.0	0.0	0.0	(0.0)
olv13*	1.0	1.0	1.0	(1.0)
olv14*	0.0	0.0	0.0	(0.0)
olv15*	1.0	1.0	1.0	(1.0)
olv16*	0.0	0.0	0.0	(0.0)
olv17*	1.0	1.0	1.0	(1.0)
olv18*	0.0	0.0	0.0	(0.0)
olv19*	1.0	1.0	1.0	(1.0)
olv20*	0.0	0.0	0.0	(0.0)
olv21*	1.0	1.0	1.0	(1.0)
olv22*	0.0	0.0	0.0	(0.0)
olv23*	1.0	1.0	1.0	(1.0)
olv24*	0.0	0.0	0.0	(0.0)
olv25*	1.0	1.0	1.0	(1.0)
olv26*	0.0	0.0	0.0	(0.0)
olv27*	1.0	1.0	1.0	(1.0)
olv28*	0.0	0.0	0.0	(0.0)
olv29*	1.0	1.0	1.0	(1.0)
olv30*	0.0	0.0	0.0	(0.0)
olv31*	1.0	1.0	1.0	(1.0)
olv32*	0.0	0.0	0.0	(0.0)
olv33*	1.0	1.0	1.0	(1.0)
olv34*	0.0	0.0	0.0	(0.0)
olv35*	1.0	1.0	1.0	(1.0)
olv36*	0.0	0.0	0.0	(0.0)
olv37*	1.0	1.0	1.0	(1.0)
olv38*	0.0	0.0	0.0	(0.0)
olv39*	1.0	1.0	1.0	(1.0)
olv40*	0.0	0.0	0.0	(0.0)
olv41*	1.0	1.0	1.0	(1.0)
olv42*	0.0	0.0	0.0	(0.0)
olv43*	1.0	1.0	1.0	(1.0)
olv44*	0.0	0.0	0.0	(0.0)
olv45*	1.0	1.0	1.0	(1.0)
olv46*	0.0	0.0	0.0	(0.0)
olv47*	1.0	1.0	1.0	(1.0)
olv48*	0.0	0.0	0.0	(0.0)
olv49*	1.0	1.0	1.0	(1.0)
olv50*	0.0	0.0	0.0	(0.0)
olv51*	1.0	1.0	1.0	(1.0)
olv52*	0.0	0.0	0.0	(0.0)
olv53*	1.0	1.0	1.0	(1.0)
olv54*	0.0	0.0	0.0	(0.0)
olv55*	1.0	1.0	1.0	(1.0)
olv56*	0.0	0.0	0.0	(0.0)
olv57*	1.0	1.0	1.0	(1.0)
olv58*	0.0	0.0	0.0	(0.0)
olv59*	1.0	1.0	1.0	(1.0)
olv60*	0.0	0.0	0.0	(0.0)
olv61*	1.0	1.0	1.0	(1.0)
olv62*	0.0	0.0	0.0	(0.0)
olv63*	1.0	1.0	1.0	(1.0)
olv64*	0.0	0.0	0.0	(0.0)
olv65*	1.0	1.0	1.0	(1.0)
olv66*	0.0	0.0	0.0	(0.0)
olv67*	1.0	1.0	1.0	(1.0)
olv68*	0.0	0.0	0.0	(0.0)
olv69*	1.0	1.0	1.0	(1.0)
olv70*	0.0	0.0	0.0	(0.0)
olv71*	1.0	1.0	1.0	(1.0)
olv72*	0.0	0.0	0.0	(0.0)
olv73*	1.0	1.0	1.0	(1.0)
olv74*	0.0	0.0	0.0	(0.0)
olv75*	1.0	1.0	1.0	(1.0)
olv76*	0.0	0.0	0.0	(0.0)
olv77*	1.0	1.0	1.0	(1.0)
olv78*	0.0	0.0	0.0	(0.0)
olv79*	1.0	1.0	1.0	(1.0)
olv80*	0.0	0.0	0.0	(0.0)
olv81*	1.0	1.0	1.0	(1.0)
olv82*	0.0	0.0	0.0	(0.0)
olv83*	1.0	1.0	1.0	(1.0)
olv84*	0.0	0.0	0.0	(0.0)
olv85*	1.0	1.0	1.0	(1.0)
olv86*	0.0	0.0	0.0	(0.0)
olv87*	1.0	1.0	1.0	(1.0)
olv88*	0.0	0.0	0.0	(0.0)
olv89*	1.0	1.0	1.0	(1.0)
olv90*	0.0	0.0	0.0	(0.0)
olv91*	1.0	1.0	1.0	(1.0)
olv92*	0.0	0.0	0.0	(0.0)
olv93*	1.0	1.0	1.0	(1.0)
olv94*	0.0	0.0	0.0	(0.0)
olv95*	1.0	1.0	1.0	(1.0)
olv96*	0.0	0.0	0.0	(0.0)
olv97*	1.0	1.0	1.0	(1.0)
olv98*	0.0	0.0	0.0	(0.0)
olv99*	1.0	1.0	1.0	(1.0)
olv100*	0.0	0.0	0.0	(0.0)

relative Inform. Technology (IT)

olv3*	1.0	0.75	1.0	(1.0)
olv4*	0.0	0.25	0.0	(0.0)
olv5*	1.0	0.75	1.0	(1.0)
olv6*	0.0	0.25	0.0	(0.0)
olv7*	1.0	0.75	1.0	(1.0)
olv8*	0.0	0.25	0.0	(0.0)
olv9*	1.0	0.75	1.0	(1.0)
olv10*	0.0	0.25	0.0	(0.0)
olv11*	1.0	0.75	1.0	(1.0)
olv12*	0.0	0.25	0.0	(0.0)
olv13*	1.0	0.75	1.0	(1.0)
olv14*	0.0	0.25	0.0	(0.0)
olv15*	1.0	0.75	1.0	(1.0)
olv16*	0.0	0.25	0.0	(0.0)
olv17*	1.0	0.75	1.0	(1.0)
olv18*	0.0	0.25	0.0	(0.0)
olv19*	1.0	0.75	1.0	(1.0)
olv20*	0.0	0.25	0.0	(0.0)
olv21*	1.0	0.75	1.0	(1.0)
olv22*	0.0	0.25	0.0	(0.0)
olv23*	1.0	0.75	1.0	(1.0)
olv24*	0.0	0.25	0.0	(0.0)
olv25*	1.0	0.75	1.0	(1.0)
olv26*	0.0	0.25	0.0	(0.0)
olv27*	1.0	0.75	1.0	(1.0)
olv28*	0.0	0.25	0.0	(0.0)
olv29*	1.0	0.75	1.0	(1.0)
olv30*	0.0	0.25	0.0	(0.0)
olv31*	1.0	0.75	1.0	(1.0)
olv32*	0.0	0.25	0.0	(0.0)
olv33*	1.0	0.75	1.0	(1.0)
olv34*	0.0	0.25	0.0	(0.0)
olv35*	1.0	0.75	1.0	(1.0)
olv36*	0.0	0.25	0.0	(0.0)
olv37*	1.0	0.75	1.0	(1.0)
olv38*	0.0	0.25	0.0	(0.0)
olv39*	1.0	0.75	1.0	(1.0)
olv40*	0.0	0.25	0.0	(0.0)
olv41*	1.0	0.75	1.0	(1.0)
olv42*	0.0	0.25	0.0	(0.0)
olv43*	1.0	0.75	1.0	(1.0)
olv44*	0.0	0.25	0.0	(0.0)
olv45*	1.0	0.75	1.0	(1.0)
olv46*	0.0	0.25	0.0	(0.0)
olv47*	1.0	0.75	1.0	(1.0)
olv48*	0.0	0.25	0.0	(0.0)
olv49*	1.0	0.75	1.0	(1.0)
olv50*	0.0	0.25	0.0	(0.0)
olv51*	1.0	0.75	1.0	(1.0)
olv52*	0.0	0.25	0.0	(0.0)
olv53*	1.0	0.75	1.0	(1.0)
olv54*	0.0	0.25	0.0	(0.0)
olv55*	1.0	0.75	1.0	(1.0)
olv56*	0.0	0.25	0.0	(0.0)
olv57*	1.0	0.75	1.0	(1.0)
olv58*	0.0	0.25	0.0	(0.0)
olv59*	1.0	0.75	1.0	(1.0)
olv60*	0.0	0.25	0.0	(0.0)
olv61*	1.0	0.75	1.0	(1.0)
olv62*	0.0	0.25	0.0	(0.0)
olv63*	1.0	0.75	1.0	(1.0)
olv64*	0.0	0.25	0.0	(0.0)
olv65*	1.0	0.75	1.0	(1.0)
olv66*	0.0	0.25	0.0	(0.0)
olv67*	1.0	0.75	1.0	(1.0)
olv68*	0.0	0.25	0.0	(0.0)
olv69*	1.0	0.75	1.0	(1.0)
olv70*	0.0	0.25	0.0	(0.0)
olv71*	1.0	0.75	1.0	(1.0)
olv72*	0.0	0.25	0.0	(0.0)
olv73*	1.0	0.75	1.0	(1.0)
olv74*	0.0	0.25	0.0	(0.0)
olv75*	1.0	0.75	1.0	(1.0)
olv76*	0.0	0.25	0.0	(0.0)
olv77*	1.0	0.75	1.0	(1.0)
olv78*	0.0	0.25	0.0	(0.0)
olv79*	1.0	0.75	1.0	(1.0)
olv80*	0.0	0.25	0.0	(0.0)
olv81*	1.0	0.75	1.0	(1.0)
olv82*	0.0	0.25	0.0	(0.0)
olv83*	1.0	0.75	1.0	(1.0)
olv84*	0.0	0.25	0.0	(0.0)
olv85*	1.0	0.75	1.0	(1.0)
olv86*	0.0	0.25	0.0	(0.0)
olv87*	1.0	0.75	1.0	(1.0)
olv88*	0.0	0.25	0.0	(0.0)
olv89*	1.0	0.75	1.0	(1.0)
olv90*	0.0	0.25	0.0	(0.0)
olv91*	1.0	0.75	1.0	(1.0)
olv92*	0.0	0.25	0.0	(0.0)
olv93*	1.0	0.75	1.0	(1.0)
olv94*	0.0	0.25	0.0	(0.0)
olv95*	1.0	0.75	1.0	(1.0)
olv96*	0.0	0.25	0.0	(0.0)
olv97*	1.0	0.75	1.0	(1.0)
olv98*	0.0	0.25	0.0	(0.0)
olv99*	1.0	0.75	1.0	(1.0)
olv100*	0.0	0.25	0.0	(0.0)

LAB*TCHa	87.5	18.97	356.49
relative CIELAB lab*			
lab*lab	0.853	0.249	-0.014
lab*tch	0.875	0.25	0.99
lab*ncH	0.0	0.25	0.99
relative Natural Colour (NC)			
lab*lr	0.853	0.232	-0.092
lab*tce	0.875	0.25	0.939
lab*ncE	0.0	0.25	0.975r

Input: Colorimetric Offset Reflective System ORS18

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

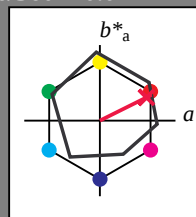
lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 49 76 26

olv*Ma: 1.0 0.0 0.3

triangle lightness t^*



$u^*_{rel} = 94$

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*LAB 95.46 0.0 0.0
LAB*LAB 95.46 0.0 0.0
LAB*LAB 95.46 0.0 0.0

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.12 -0.12 3.4
LAB*LAB 76.12 0.0 0.0
LAB*LAB 76.12 0.0 0.0
LAB*LAB 76.12 0.0 0.0

relative CIELAB lab*
lab*lab 0.848 0.224 0.111
lab*tch 0.875 0.25 0.073
lab*nch 0.0 0.25 0.073
relative Natural Colour (NC)
lab*tr 0.848 0.25 0.0
lab*tce 0.875 0.25 0.0
lab*nce 0.0 0.25 0.073

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 56.78 0.0 2.11
LAB*LAB 56.78 0.0 0.0
LAB*LAB 56.78 0.0 0.0
LAB*LAB 56.78 0.0 0.0

relative CIELAB lab*
lab*lab 0.598 0.224 0.111
lab*tch 0.625 0.25 0.074
lab*nch 0.0 0.25 0.074
relative Natural Colour (NC)
lab*tr 0.598 0.25 0.0
lab*tce 0.625 0.25 0.0
lab*nce 0.0 0.25 0.074

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 37.44 0.0 0.62
LAB*LAB 37.44 0.0 0.0
LAB*LAB 37.44 0.0 0.0
LAB*LAB 37.44 0.0 0.0

relative CIELAB lab*
lab*lab 0.348 0.224 0.111
lab*tch 0.375 0.25 0.074
lab*nch 0.0 0.25 0.074
relative Natural Colour (NC)
lab*tr 0.348 0.25 0.0
lab*tce 0.375 0.25 0.0
lab*nce 0.0 0.25 0.074

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 18.1 0.0 0.46
LAB*LAB 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0

relative CIELAB lab*
lab*lab 0.098 0.224 0.111
lab*tch 0.125 0.25 0.074
lab*nch 0.0 0.25 0.074
relative Natural Colour (NC)
lab*tr 0.098 0.25 0.0
lab*tce 0.125 0.25 0.0
lab*nce 0.0 0.25 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0

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

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

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

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

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

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

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

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

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

ORS18; adapted (a) CIELAB data

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

% Regularity

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

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

% Gamut

$u^*_{rel} = 94$

% Regularity

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

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

% Gamut

$u^*_{rel} = 94$

% Regularity

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

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

% Gamut

$u^*_{rel} = 94$

% Regularity

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

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

% Gamut

$u^*_{rel} = 94$

% Regularity

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

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

% Gamut

$u^*_{rel} = 94$

% Regularity

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

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

% Gamut

$u^*_{rel} = 94$

% Regularity

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

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

% Gamut

$u^*_{rel} = 94$

Output: Colorimetric Television Luminous System TLS00

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

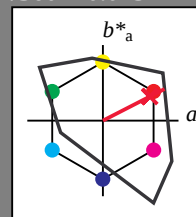
lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 55 92 27

olv*Ma: 1.0 0.0 0.18

triangle lightness t^*



$u^*_{rel} = 156$

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*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0

relative CIELAB lab*
lab*lab 0.894 0.222 0.114
lab*tch 0.875 0.25 0.075
lab*nch 0.0 0.25 0.075
relative Natural Colour (NC)
lab*tr 0.894 0.25 0.0
lab*tce 0.875 0.25 0.0
lab*nce 0.0 0.25 0.075

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 56.78 0.0 2.11
LAB*LAB 56.78 0.0 0.0
LAB*LAB 56.78 0.0 0.0
LAB*LAB 56.78 0.0 0.0

relative CIELAB lab*
lab*lab 0.598 0.224 0.111
lab*tch 0.625 0.25 0.074
lab*nch 0.0 0.25 0.074
relative Natural Colour (NC)
lab*tr 0.598 0.25 0.0
lab*tce 0.625 0.25 0.0
lab*nce 0.0 0.25 0.074

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 37.44 0.0 0.62
LAB*LAB 37.44 0.0 0.0
LAB*LAB 37.44 0.0 0.0
LAB*LAB 37.44 0.0 0.0

relative CIELAB lab*
lab*lab 0.348 0.224 0.111
lab*tch 0.375 0.25 0.074
lab*nch 0.0 0.25 0.074
relative Natural Colour (NC)
lab*tr 0.348 0.25 0.0
lab*tce 0.375 0.25 0.0
lab*nce 0.0 0.25 0.074

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 18.1 0.0 0.46
LAB*LAB 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0

relative CIELAB lab*
lab*lab 0.098 0.224 0.111
lab*tch 0.125 0.25 0.074
lab*nch 0.0 0.25 0.074
relative Natural Colour (NC)
lab*tr 0.098 0.25 0.0
lab*tce 0.125 0.25 0.0
lab*nce 0.0 0.25 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0

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

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

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

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

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

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

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

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

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

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

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

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

% Regularity

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

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

% Gamut

$u^*_{rel} = 156$

Input: Colorimetric Offset Reflective System ORS18

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

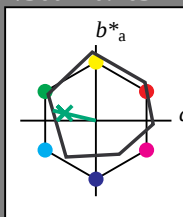
lab^*tch and lab^*nch

D50: hue G

LCH*Ma: 52 59 167

olv*Ma: 0.0 1.0 0.26

triangle lightness t^*



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

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.46 -39.34 4.69
LAB*LAB 95.46 0.0 0.0
LAB*LAB 99.99 0.01 0.0

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.815 (1.0)
cmyn3* 0.25 0.0 0.185 (0.0)
olv4* 0.75 1.0 0.815 (1.0)
cmyn4* 0.25 0.0 0.185 (0.0)
standard and adapted CIELAB
LAB*LAB 84.71 -14.24 3.36
LAB*LAB 84.71 -14.24 3.36
LAB*LAB 97.5 14.64 166.74

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.63 (1.0)
cmyn3* 0.5 0.0 0.37 (0.0)
olv4* 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 -28.49 9.98
LAB*LAB 73.97 -28.49 9.98
LAB*LAB 75.0 29.28 166.74

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.44 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olv4* 0.25 1.0 0.44 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 62.5 43.92 166.74

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.25 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 52.48 -56.79 15.28
LAB*LAB 52.48 -56.79 15.28
LAB*LAB 50.0 58.56 166.73

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.125 (1.0)
cmyn3* 0.0 0.25 0.125 (0.0)
olv4* 0.0 0.75 0.125 (1.0)
cmyn4* 0.0 0.25 0.125 (0.0)
standard and adapted CIELAB
LAB*LAB 44.92 -16.76 4.7
LAB*LAB 44.92 -16.76 4.7
LAB*LAB 42.5 17.41 164.35

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.12 -0.12 3.4
LAB*LAB 76.12 0.0 0.0
LAB*LAB 75.0 0.01 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.625 (1.0)
cmyn3* 0.5 0.25 0.375 (0.0)
olv4* 0.5 1.0 0.815 (1.0)
cmyn4* 0.5 0.0 0.185 (0.0)
standard and adapted CIELAB
LAB*LAB 65.37 -14.23 6.05
LAB*LAB 65.37 -14.23 6.05
LAB*LAB 62.5 14.64 166.73

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.375 (1.0)
cmyn3* 0.25 0.25 0.125 (0.0)
olv4* 0.25 1.0 0.63 (1.0)
cmyn4* 0.25 0.0 0.37 (0.0)
standard and adapted CIELAB
LAB*LAB 54.63 -28.33 8.7
LAB*LAB 54.63 -28.33 8.7
LAB*LAB 50.0 29.29 166.73

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.125 (1.0)
cmyn3* 0.0 0.25 0.125 (0.0)
olv4* 0.0 0.75 0.125 (1.0)
cmyn4* 0.0 0.25 0.125 (0.0)
standard and adapted CIELAB
LAB*LAB 43.89 -42.43 11.35
LAB*LAB 43.89 -42.43 11.35
LAB*LAB 37.51 43.93 166.73

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.0625 (1.0)
cmyn3* 0.0 0.25 0.0625 (0.0)
olv4* 0.0 0.5 0.0625 (1.0)
cmyn4* 0.0 0.25 0.0625 (0.0)
standard and adapted CIELAB
LAB*LAB 33.33 -7.29 0.172
LAB*LAB 33.33 -7.29 0.172
LAB*LAB 30.0 7.29 166.73

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.03125 (1.0)
cmyn3* 0.0 0.125 0.03125 (0.0)
olv4* 0.0 0.25 0.03125 (1.0)
cmyn4* 0.0 0.125 0.03125 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0
LAB*LAB 20.0 23.87 166.73

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.44 0.0 0.0
LAB*LAB 37.44 0.0 0.0
LAB*LAB 25.0 0.01 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 1.0 0.815 (1.0)
cmyn4* 0.5 0.0 0.185 (0.0)
standard and adapted CIELAB
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 30.0 29.29 166.73

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.125 (1.0)
cmyn3* 0.0 0.25 0.0625 (0.0)
olv4* 0.0 0.5 0.125 (1.0)
cmyn4* 0.0 0.25 0.0625 (0.0)
standard and adapted CIELAB
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 30.0 29.29 166.73

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.03125 (1.0)
cmyn3* 0.0 0.125 0.03125 (0.0)
olv4* 0.0 0.25 0.03125 (1.0)
cmyn4* 0.0 0.125 0.03125 (0.0)
standard and adapted CIELAB
LAB*LAB 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0
LAB*LAB 20.0 23.87 166.73

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0
LAB*LAB 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0
LAB*LAB 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0
LAB*LAB 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0
LAB*LAB 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.1 0.0 0.0
LAB*LAB 18.1 0.0 0.0
LAB*LAB 0.0 0.0 0.0

QE500-7, 5 step scales for constant CIELAB hue 167/360 = 0.463 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

BAM-test chart QE50; Colorimetric systems ORS18 & ORS18

D50: 2 coordinate data of 5 step colour scales for 10 hues

input: $cm y 0^* set c m y k c o l o r$

output: *Startup (S) data dependend*

Input: Colorimetric Offset Reflective System ORS18

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

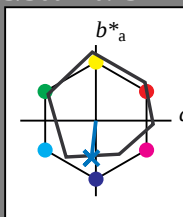
lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 42 47 263

olv*Ma: 0.0 0.52 1.0

triangle lightness t^*



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
RC _{IE}	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

%Regularity

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

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

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	95.46 -0.39 4.69
LAB*LAB	95.46 0.0 0.0
LAB*LAB	99.99 0.01 0.0
relative CIELAB lab*	
lab*lab	1.0 0.0 0.0
lab*tch	0.0 0.0 0.0
lab*nch	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*tce	0.0 0.0 0.0
lab*nce	0.0 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	76.12 -0.12 3.4
LAB*LAB	76.12 0.0 0.0
LAB*LAB	75.00 0.01 0.0
relative CIELAB lab*	
lab*lab	0.75 0.0 0.0
lab*tch	0.75 0.0 0.0
lab*nch	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.75 0.0 0.0
lab*tce	0.75 0.0 0.0
lab*nce	0.0 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	82.06 -1.56 -7.76
LAB*LAB	82.06 -1.56 -11.57
LAB*LAB	87.5 11.66 263.32
relative CIELAB lab*	
lab*lab	0.827 -0.028 -0.247
lab*tch	0.875 0.25 0.731
lab*nch	0.0 0.25 0.731
relative Natural Colour (NC)	
lab*trj	0.827 0.0 -0.249
lab*tce	0.875 0.25 0.731
lab*nce	0.0 0.25 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	68.67 -2.73 -20.23
LAB*LAB	68.67 -2.73 -23.15
LAB*LAB	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*trj	0.654 0.0 -0.499
lab*tce	0.75 0.5 0.731
lab*nce	0.0 0.5 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	55.27 -3.9 -32.71
LAB*LAB	55.27 -3.9 -34.73
LAB*LAB	62.5 34.97 263.33
relative CIELAB lab*	
lab*lab	0.481 -0.086 -0.744
lab*tch	0.625 0.75 0.731
lab*nch	0.0 0.75 0.731
relative Natural Colour (NC)	
lab*trj	0.481 0.0 -0.749
lab*tce	0.625 0.75 0.731
lab*nce	0.0 0.75 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	56.78 0.0 2.11
LAB*LAB	56.78 0.0 0.0
LAB*LAB	50.00 0.01 0.0
relative CIELAB lab*	
lab*lab	0.5 0.0 0.0
lab*tch	0.5 0.0 0.0
lab*nch	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.5 0.0 0.0
lab*tce	0.5 0.0 0.0
lab*nce	0.0 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	43.0 -1.02 10.34
LAB*LAB	43.0 -1.02 11.57
LAB*LAB	50.0 11.66 263.34
relative CIELAB lab*	
lab*lab	0.327 -0.028 -0.247
lab*tch	0.375 0.25 0.731
lab*nch	0.0 0.25 0.731
relative Natural Colour (NC)	
lab*trj	0.327 0.0 -0.249
lab*tce	0.375 0.25 0.731
lab*nce	0.0 0.25 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	49.33 -2.46 -21.53
LAB*LAB	49.33 -2.46 -23.15
LAB*LAB	50.0 23.32 263.34
relative CIELAB lab*	
lab*lab	0.388 0.0 -0.496
lab*tch	0.5 0.5 0.731
lab*nch	0.0 0.5 0.731
relative Natural Colour (NC)	
lab*trj	0.388 0.0 -0.499
lab*tce	0.5 0.5 0.731
lab*nce	0.0 0.5 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	35.54 -3.62 -34.0
LAB*LAB	35.54 -3.62 -34.73
LAB*LAB	37.51 34.97 263.34
relative CIELAB lab*	
lab*lab	0.231 -0.086 -0.744
lab*tch	0.375 0.75 0.731
lab*nch	0.0 0.75 0.731
relative Natural Colour (NC)	
lab*trj	0.231 0.0 -0.749
lab*tce	0.375 0.75 0.731
lab*nce	0.0 0.75 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	41.88 -5.06 -45.18
LAB*LAB	41.88 -5.06 -46.3
LAB*LAB	50.0 46.63 263.34
relative CIELAB lab*	
lab*lab	0.388 0.0 -0.496
lab*tch	0.5 0.5 0.731
lab*nch	0.0 0.5 0.731
relative Natural Colour (NC)	
lab*trj	0.388 0.0 -0.499
lab*tce	0.5 0.5 0.731
lab*nce	0.0 0.5 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	39.59 -2.19 -22.81
LAB*LAB	39.59 -2.19 -23.15
LAB*LAB	50.0 23.32 263.35
relative CIELAB lab*	
lab*lab	0.327 -0.028 -0.247
lab*tch	0.375 0.25 0.731
lab*nch	0.0 0.25 0.731
relative Natural Colour (NC)	
lab*trj	0.327 0.0 -0.249
lab*tce	0.375 0.25 0.731
lab*nce	0.0 0.25 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	29.59 -2.19 -22.81
LAB*LAB	29.59 -2.19 -23.15
LAB*LAB	50.0 23.32 263.35
relative CIELAB lab*	
lab*lab	0.327 -0.028 -0.247
lab*tch	0.375 0.25 0.731
lab*nch	0.0 0.25 0.731
relative Natural Colour (NC)	
lab*trj	0.327 0.0 -0.249
lab*tce	0.375 0.25 0.731
lab*nce	0.0 0.25 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	29.59 -2.19 -22.81
LAB*LAB	29.59 -2.19 -23.15
LAB*LAB	50.0 23.32 263.35
relative CIELAB lab*	
lab*lab	0.327 -0.028 -0.247
lab*tch	0.375 0.25 0.731
lab*nch	0.0 0.25 0.731
relative Natural Colour (NC)	
lab*trj	0.327 0.0 -0.249
lab*tce	0.375 0.25 0.731
lab*nce	0.0 0.25 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	29.59 -2.19 -22.81
LAB*LAB	29.59 -2.19 -23.15
LAB*LAB	50.0 23.32 263.35
relative CIELAB lab*	
lab*lab	0.327 -0.028 -0.247
lab*tch	0.375 0.25 0.731
lab*nch	0.0 0.25 0.731
relative Natural Colour (NC)	
lab*trj	0.327 0.0 -0.249
lab*tce	0.375 0.25 0.731
lab*nce	0.0 0.25 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	29.59 -2.19 -22.81
LAB*LAB	29.59 -2.19 -23.15
LAB*LAB	50.0 23.32 263.35
relative CIELAB lab*	
lab*lab	0.327 -0.028 -0.247
lab*tch	0.375 0.25 0.731
lab*nch	0.0 0.25 0.731
relative Natural Colour (NC)	
lab*trj	0.327 0.0 -0.249
lab*tce	0.375 0.25 0.731
lab*nce	0.0 0.25 0.731

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	18.1 0.67 0.46
LAB*LAB	18.1 0.0 0.0
LAB*LAB	0.01 0.0 0.0
relative CIELAB lab*	
lab*lab	0.0 0.0 0.0
lab*tch	0.0 0.0 0.0
lab*nch	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*tce	0.0 0.0 0.0
lab*nce	0.0 0.0 0.0

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
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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
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