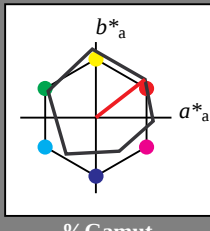


Input: Colorimetric Offset Reflective System ORS18
for hue $h^* = lab^*h = 38/360 = 0.105$
 lab^*tch and lab^*nch

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
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)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	95.46	-39.39	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	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)
cmv3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmv4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*Lab	83.58	16.26	12.63
LAB*Lab	83.58	16.26	12.63
LAB*Lab	97.5	20.59	37.84

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)
cmv3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	0.5	0.5	(1.0)
cmv4*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*Lab	71.7	32.45	28.38
LAB*Lab	71.7	32.45	28.38
LAB*Lab	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*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)
cmv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
cmv4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*Lab	59.82	48.88	40.22
LAB*Lab	59.82	48.88	40.22
LAB*Lab	62.5	61.78	37.84

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)
cmv3*	0.0	1.0	1.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	1.0	1.0	(0.0)

standard and adapted CIELAB

LAB*Lab	47.94	65.05	50.54
LAB*Lab	47.94	65.05	50.54
LAB*Lab	50.0	82.36	37.84

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

0.25

0.50

0.75

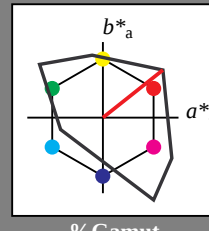
1.00

chromaticness c^*

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^*



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)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	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	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)
cmv3*	0.0	0.25	0.25	(0.0)
olv4*	1.0	0.75	0.75	(1.0)
cmv4*	0.0	0.25	0.25	(0.0)

standard and adapted CIELAB

LAB*Lab	85.1	19.83	15.74
LAB*Lab	85.1	19.83	15.74
LAB*Lab	87.5	25.32	38.44

relative CIELAB lab*

lab*lab	0.892	0.196	0.155
lab*tch	0.875	0.25	0.107
lab*nch	0.0	0.25	0.107

relative Natural Colour (NC)

lab*trj	0.892	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)
cmv3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	0.5	0.5	(1.0)
cmv4*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*Lab	71.57	32.45	28.38
LAB*Lab	71.57	32.45	28.38
LAB*Lab	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*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)
cmv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
cmv4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*Lab	47.94	65.05	50.54
LAB*Lab	47.94	65.05	50.54
LAB*Lab	50.0	82.36	37.84

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*	1.0	0.0	0.0	(1.0)
cmv3*	0.0	1.0	1.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	1.0	1.0	(0.0)

standard and adapted CIELAB

LAB*Lab	47.94	65.05	50.54
LAB*Lab	47.94	65.05	50.54
LAB*Lab	50.0	82.36	37.84

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*	1.0	0.25	0.25	(1.0)
cmv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
cmv4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.5	25.33	38.44

relative CIELAB lab*

lab*lab	0.52	0.25	0.107
lab*tch	0.52	0.25	0.107
lab*nch	0.0	0.25	0.107

relative Natural Colour (NC)

lab*trj	0.52	0.25	0.046
lab*tce	0.52	0.25	0.046
lab*nce	0.0	0.25	0.119

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmv3*	0.0	1.0	1.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	1.0	1.0	(0.0)

standard and adapted CIELAB

LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.5	25.33	38.44

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*	1.0	0.5	0.5	(1.0)
cmv3*	0.0	0.5	0.5	(0.0)
olv4*	1.0	0.5	0.5	(1.0)
cmv4*	0.0	0.5	0.5	(0.0)

standard and adapted CIELAB

LAB*Lab	47.94	65.05	50.54
LAB*Lab	47.94	65.05	50.54
LAB*Lab	50.0	82.36	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*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)
cmv3*	0.0	0.75	0.75	(0.0)
olv4*	1.0	0.25	0.25	(1.0)
cmv4*	0.0	0.75	0.75	(0.0)

standard and adapted CIELAB

LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.5	25.33	38.44

relative CIELAB lab*

lab*lab	0.52	0.25	0.107
lab*tch	0.52	0.25	0.107
lab*nch	0.0	0.25	0.107

relative Natural Colour (NC)

lab*trj	0.52	0.25	0.046
lab*tce	0.52	0.25	0.046
lab*nce	0.0	0.25	0.119

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmv3*	0.0	1.0	1.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	1.0	1.0	(0.0)

standard and adapted CIELAB

LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.41	19.84	15.75
LAB*Lab	37.5	25.33	38.44

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

Input: Colorimetric Offset Reflective System ORS18

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

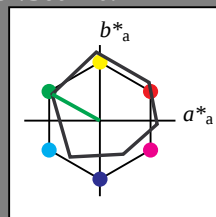
lab^*tch and lab^*nch

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*TCMa 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*lrj 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*TCMa 75.00 0.01 -

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*lrj 0.856 -0.237 0.077
lab*tce 0.875 0.25 0.45
lab*nce 0.0 0.25 0.798

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*TCMa 75.00 0.01 -

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*lrj 0.856 -0.237 0.077
lab*tce 0.875 0.25 0.45
lab*nce 0.0 0.25 0.798

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*TCMa 75.00 0.01 -

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*lrj 0.856 -0.237 0.077
lab*tce 0.875 0.25 0.45
lab*nce 0.0 0.25 0.798

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*TCMa 75.00 0.01 -

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*lrj 0.856 -0.237 0.077
lab*tce 0.875 0.25 0.45
lab*nce 0.0 0.25 0.798

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*TCMa 75.00 0.01 -

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*lrj 0.856 -0.237 0.077
lab*tce 0.875 0.25 0.45
lab*nce 0.0 0.25 0.798

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*TCMa 75.00 0.01 -

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*lrj 0.856 -0.237 0.077
lab*tce 0.875 0.25 0.45
lab*nce 0.0 0.25 0.798

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*TCMa 75.00 0.01 -

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*lrj 0.856 -0.237 0.077
lab*tce 0.875 0.25 0.45
lab*nce 0.0 0.25 0.798

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*TCMa 75.00 0.01 -

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*lrj 0.856 -0.237 0.077
lab*tce 0.875 0.25 0.45
lab*nce 0.0 0.25 0.798

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*TCMa 75.00 0.01 -

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*lrj 0.856 -0.237 0.077
lab*tce 0.875 0.25 0.45
lab*nce 0.0 0.25 0.798

OE500-7, 5 step scales for constant CIELAB hue 151/360 = 0.42 (left)

BAM-test chart QE50; Colorimetric systems ORS18 & TLS00

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

Output: Colorimetric Television Luminous System TLS00

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

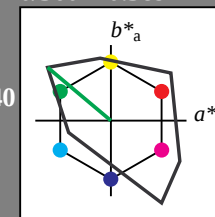
lab^*tch and lab^*nch

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*TCMa 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*lrj 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 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*TCMa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.967 -0.19 0.161
lab*tch 0.875 0.25 0.389
lab*nch 0.0 0.25 0.389
relative Natural Colour (NC)
lab*lrj 0.967 -0.218 0.121
lab*tce 0.875 0.25 0.419
lab*nce 0.0 0.25 0.767

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 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*TCMa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.967 -0.19 0.161
lab*tch 0.875 0.25 0.389
lab*nch 0.0 0.25 0.389
relative Natural Colour (NC)
lab*lrj 0.967 -0.218 0.121
lab*tce 0.875 0.25 0.419
lab*nce 0.0 0.25 0.767

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 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*TCMa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.967 -0.19 0.161
lab*tch 0.875 0.25 0.389
lab*nch 0.0 0.25 0.389
relative Natural Colour (NC)
lab*lrj 0.967 -0.218 0.121
lab*tce 0.875 0.25 0.419
lab*nce 0.0 0.25 0.767

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 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*TCMa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.967 -0.19 0.161
lab*tch 0.875 0.25 0.389
lab*nch 0.0 0.25 0.389
relative Natural Colour (NC)
lab*lrj 0.967 -0.218 0.121
lab*tce 0.875 0.25 0.419
lab*nce 0.0 0.25 0.767

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 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*TCMa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.967 -0.19 0.161
lab*tch 0.875 0.25 0.389
lab*nch 0.0 0.25 0.389
relative Natural Colour (NC)
lab*lrj 0.967 -0.218 0.121
lab*tce 0.875 0.25 0.419
lab*nce 0.0 0.25 0.767

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 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*TCMa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.967 -0.19 0.161
lab*tch 0.875 0.25 0.389
lab*nch 0.0 0.25 0.389
relative Natural Colour (NC)
lab*lrj 0.967 -0.218 0.121
lab*tce 0.875 0.25 0.419
lab*nce 0.0 0.25 0.767

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 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*TCMa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.967 -0.19 0.161
lab*tch 0.875 0.25 0.389
lab*nch 0.0 0.25 0.389
relative Natural Colour (NC)
lab*lrj 0.967 -0.218 0.121
lab*tce 0.875 0.25 0.419
lab*nce 0.0 0.25 0.767

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 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*TCMa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.967 -0.19 0.161
lab*tch 0.875 0.25 0.389
lab*nch 0.0 0.25 0.389
relative Natural Colour (NC)
lab*lrj 0.967 -0.218 0.121
lab*tce 0.875 0.25 0.419
lab*nce 0.0 0.25 0.767

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 71.57 0.0 0.0
LAB*LAB 71.57 0.0 0.0
LAB*TCMa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.967 -0.19 0.161
lab*tch 0.875 0.25 0.389
lab*nch 0.0 0.25 0.389
relative Natural Colour (NC)
lab*lrj 0.967 -0.218 0.121
lab*tce 0.875 0.25 0.419
lab*nce 0.0 0.25 0.767

$n^* = 1.0$

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

input: `cmv0* setcmvcolor`

output: *no change compared to input*

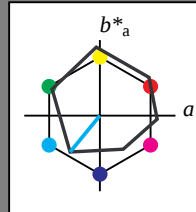
chromaticness c^*

chromaticness c^*

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^*



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

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

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

1.00

0.75

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

0.25

0.50

0.75

1.00

chromaticness c^*

QE500-7, 5 step scales for constant CIELAB hue 231/360 = 0.641 (left)

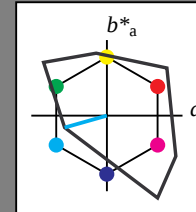
BAM-test chart QE50; Colorimetric systems ORS18 & TLS00

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

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^*



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

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

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

1.00

0.75

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

0.25

0.50

0.75

1.00

chromaticness c^*

5 step scales for constant CIELAB hue 196/360 = 0.544 (right)

input: $cmv0^* setcmvcolor$

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

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

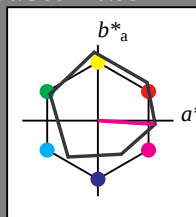
lab^*tch and lab^*nch

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)

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*lrj	0.853	0.232	-0.093
lab*tce	0.875	0.25	0.939
lab*nce	0.0	0.25	0.939

Input: Colorimetric Offset Reflective System ORS18

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

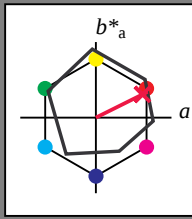
lab^*tch and lab^*nch

D50: hue R

LCH*Ma: 49 76 26

olv*Ma: 1.0 0.0 0.3

triangle lightness t^*



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)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	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*	1.0	0.75	0.825	(1.0)
cmv3*	0.0	0.25	0.175	(0.0)
olv4*	1.0	0.75	0.825	(1.0)
cmv4*	0.0	0.25	0.175	(0.0)
standard and adapted CIELAB				
LAB*LAB	83.73	16.82	12.41	
LAB*LAB	83.73	17.06	8.49	
LAB*LAB	97.5	19.06	20.46	

relative Inform. Technology (IT)

olv3*	1.0	0.5	0.65	(1.0)
cmv3*	0.0	0.5	0.35	(0.0)
olv4*	1.0	0.5	0.65	(1.0)
cmv4*	0.0	0.5	0.35	(0.0)
standard and adapted CIELAB				
LAB*LAB	72.0	34.05	20.12	
LAB*LAB	72.0	34.13	16.99	
LAB*LAB	75.0	38.12	26.46	

relative Inform. Technology (IT)

olv3*	1.0	0.25	0.475	(1.0)
cmv3*	0.0	0.25	0.225	(0.0)
olv4*	1.0	0.25	0.475	(1.0)
cmv4*	0.0	0.25	0.225	(0.0)
standard and adapted CIELAB				
LAB*LAB	60.28	51.28	27.84	
LAB*LAB	60.28	51.28	25.48	
LAB*LAB	62.5	57.18	26.46	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	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	75.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
cmv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	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*	0.75	0.5	0.575	(1.0)
cmv3*	0.25	0.5	0.325	(0.0)
olv4*	1.0	0.75	0.825	(1.0)
cmv4*	0.0	0.25	0.175	(0.0)
standard and adapted CIELAB				
LAB*LAB	64.39	17.1	11.12	
LAB*LAB	64.39	17.07	8.5	
LAB*LAB	62.5	19.06	21.11	

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.4	(1.0)
cmv3*	0.25	0.75	0.6	(0.0)
olv4*	1.0	0.5	0.65	(1.0)
cmv4*	0.0	0.5	0.35	(0.0)
standard and adapted CIELAB				
LAB*LAB	52.67	34.32	18.84	
LAB*LAB	52.67	34.13	16.99	
LAB*LAB	50.0	38.13	26.46	

relative Inform. Technology (IT)

olv3*	0.75	0.0	0.0	(1.0)
cmv3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	48.56	68.5	35.55	
LAB*LAB	48.56	68.25	33.98	
LAB*LAB	50.0	76.24	26.47	

relative Inform. Technology (IT)

olv3*	1.0	0.0	0.0	(1.0)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	47.72	0.0	0.0	
LAB*LAB	47.72	0.0	0.0	
LAB*LAB	50.0	0.01	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(1.0)
cmv3*	0.5	0.5	0.5	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	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	50.0	0.01	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.25	0.375	(1.0)
cmv3*	0.5	0.75	0.625	(0.0)
olv4*	1.0	0.75	0.825	(1.0)
cmv4*	0.0	0.25	0.175	(0.0)
standard and adapted CIELAB				
LAB*LAB	45.05	36	9.83	
LAB*LAB	45.05	36	9.83	
LAB*LAB	37.5	19.06	26.46	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.0	(1.0)
cmv3*	0.5	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	33.33	34.38	17.5	
LAB*LAB	33.33	34.13	16.99	
LAB*LAB	25.01	38.12	26.47	

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.0	(1.0)
cmv3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	40.34	51.55	26.55	
LAB*LAB	40.34	51.19	25.49	
LAB*LAB	37.51	57.19	26.47	

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.0	(1.0)
cmv3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	39.94	0.0	0.0	
LAB*LAB	39.94	0.0	0.0	
LAB*LAB	50.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
cmv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	37.34	36	9.83	
LAB*LAB	37.34	0.0	0.0	
LAB*LAB	25.0	0.01	0.0	

relative Inform. Technology (IT)

olv3*	0.25	0.125	0.1875	(1.0)
cmv3*	0.75	0.875	0.8125	(0.0)
olv4*	1.0	0.75	0.825	(1.0)
cmv4*	0.0	0.125	0.1875	(0.0)
standard and adapted CIELAB				
LAB*LAB	33.33	34.38	17.5	
LAB*LAB	33.33	34.13	16.99	
LAB*LAB	25.01	38.12	26.47	

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.0	(1.0)
cmv3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	33.33	34.38	17.5	
LAB*LAB	33.33	34.13	16.99	
LAB*LAB	25.01	38.12	26.47	

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.0	(1.0)
cmv3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	33.33	34.38	17.5	
LAB*LAB	33.33	34.13	16.99	
LAB*LAB	25.01	38.12	26.47	

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.0	(1.0)
cmv3*	0.25	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	33.33	34.38	17.5	
LAB*LAB	33.33	34.13	16.99	
LAB*LAB	25.01	38.12	26.47	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	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	0.0	0.01	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	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	0.0	0.01	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	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	0.0	0.01	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	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	0.0	0.01	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	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	0.0	0.01	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	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	0.0	0.01	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
cmv3*	1.0	0.0	0.0	(0.0)
olv4*	1.0	0.0	0.0	(1.0)
cmv4*	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	0.0	0.01	0.0	

relative Inform. Technology (IT)				
olv3*	0.5	0.0	0.15	(1.0)
cmv3*	0.5	1.0	0.85	(0.0)
olv4*	1.0	0.5	0.65	0.5
cmv4*	0.0	0.5	0.35	0.5
standard and adapted CIELAB				
LAB*LAB	33.33	34.58	17.55	
LAB*LAB _a	33.33	34.13	16.99	

Input: Colorimetric Offset Reflective System ORS18

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

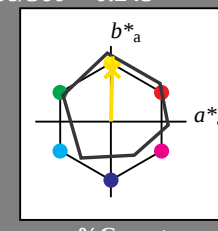
lab^*tch and lab^*nch

D50: hue J

LCH*Ma: 86 86 88

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



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)
cmv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
cmv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	95.46	-39.34	49.99	0.0
LAB*LAB	95.46	-39.34	49.99	0.0
LAB*TCa	95.46	-39.34	49.99	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.974	0.75	(1.0)
cmv3*	0.0	0.026	0.25	(0.0)
olv4*	1.0	0.974	0.75	(1.0)
cmv4*	0.0	0.026	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	93.21	0.27	26.14	0.0
LAB*LAB	93.21	0.27	26.14	0.0
LAB*TCa	93.21	0.27	26.14	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.948	0.5	(1.0)
cmv3*	0.0	0.052	0.5	(0.0)
olv4*	1.0	0.948	0.5	(1.0)
cmv4*	0.0	0.052	0.5	(0.0)
standard and adapted CIELAB				
LAB*LAB	90.97	0.94	47.59	0.0
LAB*LAB	90.97	0.94	47.59	0.0
LAB*TCa	90.97	0.94	47.59	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.921	0.25	(1.0)
cmv3*	0.0	0.079	0.25	(0.0)
olv4*	1.0	0.921	0.25	(1.0)
cmv4*	0.0	0.079	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	88.73	1.62	69.03	0.0
LAB*LAB	88.73	1.62	69.03	0.0
LAB*TCa	88.73	1.62	69.03	0.0

relative Inform. Technology (IT)

olv3*	1.0	0.921	0.25	(1.0)
cmv3*	0.0	0.079	0.25	(0.0)
olv4*	1.0	0.921	0.25	(1.0)
cmv4*	0.0	0.079	0.25	(0.0)
standard and adapted CIELAB				
LAB*LAB	88.73	1.62	69.03	0.0
LAB*LAB	88.73	1.62	69.03	0.0
LAB*TCa	88.73	1.62	69.03	0.0

%Regularity

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

$n^* = 1.25$

$n^* = 1.50$

$n^* = 1.75$

$n^* = 2.00$

$n^* = 2.25$

$n^* = 2.50$

$n^* = 2.75$

$n^* = 3.00$

$n^* = 3.25$

$n^* = 3.50$

$n^* = 3.75$

$n^* = 4.00$

$n^* = 4.25$

$n^* = 4.50$

$n^* = 4.75$

$n^* = 5.00$

$n^* = 5.25$

$n^* = 5.50$

$n^* = 5.75$

$n^* = 6.00$

$n^* = 6.25$

$n^* = 6.50$

$n^* = 6.75$

$n^* = 7.00$

$n^* = 7.25$

$n^* = 7.50$

$n^* = 7.75$

$n^* = 8.00$

$n^* = 8.25$

$n^* = 8.50$

$n^* = 8.75$

$n^* = 9.00$

$n^* = 9.25$

$n^* = 9.50$

$n^* = 9.75$

$n^* = 10.00$

$n^* = 10.25$

$n^* = 10.50$

$n^* = 10.75$

$n^* = 11.00$

$n^* = 11.25$

$n^* = 11.50$

$n^* = 11.75$

$n^* = 12.00$

$n^* = 12.25$

$n^* = 12.50$

$n^* = 12.75$

$n^* = 13.00$

$n^* = 13.25$

$n^* = 13.50$

$n^* = 13.75$

$n^* = 14.00$

$n^* = 14.25$

$n^* = 14.50$

$n^* = 14.75$

$n^* = 15.00$

$n^* = 15.25$

$n^* = 15.50$

$n^* = 15.75$

$n^* = 16.00$

$n^* = 16.25$

$n^* = 16.50$

$n^* = 16.75$

$n^* = 17.00$

$n^* = 17.25$

$n^* = 17.50$

$n^* = 17.75$

$n^* = 18.00$

$n^* = 18.25$

$n^* = 18.50$

$n^* = 18.75$

$n^* = 19.00$

$n^* = 19.25$

$n^* = 19.50$

$n^* = 19.75$

$n^* = 20.00$

$n^* = 20.25$

$n^* = 20.50$

$n^* = 20.75$

$n^* = 21.00$

$n^* = 21.25$

$n^* = 21.50$

$n^* = 21.75$

$n^* = 22.00$

$n^* = 22.25$

$n^* = 22.50$

$n^* = 22.75$

$n^* = 23.00$

$n^* = 23.25$

$n^* = 23.50$

$n^* = 23.75$

$n^* = 24.00$

$n^* = 24.25$

$n^* = 24.50$

$n^* = 24.75$

$n^* = 25.00$

$n^* = 25.25$

$n^* = 25.50$

$n^* = 25.75$

$n^* = 26.00$

$n^* = 26.25$

$n^* = 26.50$

$n^* = 26.75$

$n^* = 27.00$

$n^* = 27.25$

$n^* = 27.50$

$n^* = 27.75$

$n^* = 28.00$

$n^* = 28.25$

$n^* = 28.50$

$n^* = 28.75$

$n^* = 29.00$

$n^* = 29.25$

$n^* = 29.50$

$n^* = 29.75$

$n^* = 30.00$

$n^* = 30.25$

$n^* = 30.50$

$n^* = 30.75$

$n^* = 31.00$

$n^* = 31.25$

$n^* = 31.50$

$n^* = 31.75$

$n^* = 32.00$

$n^* = 32.25$

$n^* = 32.50$

$n^* = 32.75$

$n^* = 33.00$

$n^* = 33.25$

$n^* = 33.50$

$n^* = 33.75$

$n^* = 34.00$

$n^* = 34.25$

$n^* = 34.50$

$n^* = 34.75$

$n^* = 35.00$

$n^* = 35.25$

$n^* = 35.50$

$n^* = 35.75$

$n^* = 36.00$

$n^* = 36.25$

$n^* = 36.50$

$n^* = 36.75$

$n^* = 37.00$

$n^* = 37.25$

$n^* = 37.50$

$n^* = 37.75$

$n^* = 38.00$

$n^* = 38.25$

$n^* = 38.50$

$n^* = 38.75$

$n^* = 39.00$

$n^* = 39.25$

$n^* = 39.50$

$n^* = 39.75$

$n^* = 40.00$

$n^* = 40.25$

$n^* = 40.50$

$n^* = 40.75$

$n^* = 41.00$

$n^* = 41.25$

$n^* = 41.50$

$n^* = 41.75$

$n^* = 42.00$

$n^* = 42.25$

$n^* = 42.50$

$n^* = 42.75$

$n^* = 43.00$

$n^* = 43.25$

$n^* = 43.50$

$n^* = 43.75$

$n^* = 44.00$

$n^* = 44.25$

$n^* = 44.50$

$n^* = 44.75$

$n^* = 45.00$

Input: Colorimetric Offset Reflective System ORS18

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

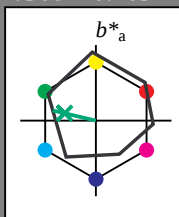
lab^*tch and lab^*nch

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 49.99
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 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 84.71 -14.24 3.36
LAB*LAB 84.71 -14.24 3.36

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 73.97 -28.49 9.98
LAB*LAB 73.97 -28.49 9.98

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 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63

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

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.5 (1.0)
cmyn3* 0.0 0.25 0.5 (0.0)
olv4* 0.0 0.75 0.5 (1.0)
cmyn4* 0.0 0.25 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 44.92 -16.76 4.7
LAB*LAB 44.92 -16.76 4.7
LAB*LAB 44.92 -16.76 4.7
LAB*LAB 44.92 -16.76 4.7

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.25 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olv4* 0.0 0.5 0.25 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 37.51 -43.93 16.73
LAB*LAB 37.51 -43.93 16.73
LAB*LAB 37.51 -43.93 16.73
LAB*LAB 37.51 -43.93 16.73

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 -37.44 0.0
LAB*LAB 37.44 -37.44 0.0
LAB*LAB 37.44 -37.44 0.0
LAB*LAB 37.44 -37.44 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.37 (1.0)
cmyn3* 0.75 0.5 0.37 (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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.15 (1.0)
cmyn3* 0.0 0.25 0.15 (0.0)
olv4* 0.0 0.5 0.15 (1.0)
cmyn4* 0.0 0.25 0.15 (0.0)
standard and adapted CIELAB
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.06 (1.0)
cmyn3* 0.0 0.125 0.06 (0.0)
olv4* 0.0 0.25 0.06 (1.0)
cmyn4* 0.0 0.125 0.06 (0.0)
standard and adapted CIELAB
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

OE500-7, 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 & TLS00

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

input: $cmv0^* setcmykcolor$

output: no change compared to input

Output: Colorimetric Television Luminous System TLS00

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

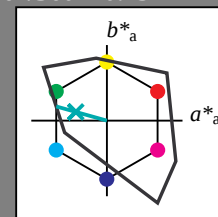
lab^*tch and lab^*nch

D50: hue G

LCH*Ma: 84 70 164

olv*Ma: 0.0 1.0 0.6

triangle lightness t^*



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 95.41 0.0 0.0
LAB*LAB 95.41 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.9 (1.0)
cmyn3* 0.25 0.0 0.1 (0.0)
olv4* 0.75 1.0 0.9 (1.0)
cmyn4* 0.25 0.0 0.1 (0.0)
standard and adapted CIELAB
LAB*LAB 92.61 -16.75 4.69
LAB*LAB 92.61 -16.75 4.69
LAB*LAB 92.61 -16.75 4.69
LAB*LAB 92.61 -16.75 4.69

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.67 (1.0)
cmyn3* 0.5 0.0 0.33 (0.0)
olv4* 0.5 1.0 0.67 (1.0)
cmyn4* 0.5 0.0 0.33 (0.0)
standard and adapted CIELAB
LAB*LAB 89.83 -33.52 9.39
LAB*LAB 89.83 -33.52 9.39
LAB*LAB 89.83 -33.52 9.39
LAB*LAB 89.83 -33.52 9.39

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.5 (1.0)
cmyn3* 0.25 0.0 0.25 (0.0)
olv4* 0.25 1.0 0.5 (1.0)
cmyn4* 0.25 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 87.04 -50.29 14.09
LAB*LAB 87.04 -50.29 14.09
LAB*LAB 87.04 -50.29 14.09
LAB*LAB 87.04 -50.29 14.09

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.33 (1.0)
cmyn3* 0.0 0.0 0.33 (0.0)
olv4* 0.0 1.0 0.33 (1.0)
cmyn4* 0.0 0.0 0.33 (0.0)
standard and adapted CIELAB
LAB*LAB 84.25 -67.05 18.79
LAB*LAB 84.25 -67.05 18.79
LAB*LAB 84.25 -67.05 18.79
LAB*LAB 84.25 -67.05 18.79

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.5 (1.0)
cmyn3* 0.0 0.25 0.5 (0.0)
olv4* 0.0 0.75 0.5 (1.0)
cmyn4* 0.0 0.25 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 -28.49 9.98
LAB*LAB 71.57 -28.49 9.98
LAB*LAB 71.57 -28.49 9.98
LAB*LAB 71.57 -28.49 9.98

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.25 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olv4* 0.0 0.5 0.25 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 68.77 -16.76 4.7
LAB*LAB 68.77 -16.76 4.7
LAB*LAB 68.77 -16.76 4.7
LAB*LAB 68.77 -16.76 4.7

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.125 (1.0)
cmyn3* 0.0 0.125 0.125 (0.0)
olv4* 0.0 0.25 0.125 (1.0)
cmyn4* 0.0 0.125 0.125 (0.0)
standard and adapted CIELAB
LAB*LAB 65.98 -33.53 9.4
LAB*LAB 65.98 -33.53 9.4
LAB*LAB 65.98 -33.53 9.4
LAB*LAB 65.98 -33.53 9.4

relative Inform. Technology (IT)
olv3* 0.0 0.125 0.06 (1.0)
cmyn3* 0.0 0.06 0.06 (0.0)
olv4* 0.0 0.125 0.06 (1.0)
cmyn4* 0.0 0.06 0.06 (0.0)
standard and adapted CIELAB
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63

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 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63

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 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63

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 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63
LAB*LAB 63.22 -42.69 12.63

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 -37.44 0.0
LAB*LAB 37.44 -37.44 0.0
LAB*LAB 37.44 -37.44 0.0
LAB*LAB 37.44 -37.44 0.0

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.37 (1.0)
cmyn3* 0.75 0.5 0.37 (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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.15 (1.0)
cmyn3* 0.0 0.25 0.15 (0.0)
olv4* 0.0 0.5 0.15 (1.0)
cmyn4* 0.0 0.25 0.15 (0.0)
standard and adapted CIELAB
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.06 (1.0)
cmyn3* 0.0 0.125 0.06 (0.0)
olv4* 0.0 0.25 0.06 (1.0)
cmyn4* 0.0 0.125 0.06 (0.0)
standard and adapted CIELAB
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

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 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41
LAB*LAB 35.29 -28.06 7.41

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3

Input: Colorimetric Offset Reflective System ORS18

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

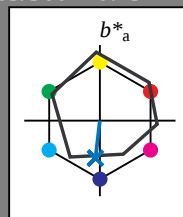
lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 42 47 263

olv*Ma: 0.0 0.52 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 94$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
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	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	1.0	0.0	0.0	
lab*trj	1.0	0.0	0.0	
lab*tce	1.0	0.0	0.0	
lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
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)	0.75	0.0	0.0	
lab*trj	0.75	0.0	0.0	
lab*tce	0.75	0.0	0.0	
lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	56.78	0.13	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)	0.5	0.0	0.0	
lab*trj	0.5	0.0	0.0	
lab*tce	0.5	0.0	0.0	
lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	37.44	-0.67	0.82	
LAB*LAB	37.44	0.0	0.0	
LAB*LAB	25.00	0.01	0.0	

relative CIELAB lab*

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

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(1.0)
olv3*	1.0	1.0	1.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	18.1	0.67	0.46	
LAB*LAB	18.1	0.0	0.0	
LAB*LAB	10.00	0.01	0.0	

relative CIELAB lab*

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

relative Inform. Technology (IT)

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

OE500-7, 5 step scales for constant CIELAB hue 263/360 = 0.731 (left)

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*	0.5	0.5	0.5	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	68.67	-2.73	-20.23	
LAB*LAB	68.67	0.0	0.0	
LAB*LAB	75.00	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)	0.5	0.0	0.0	
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*	0.0	0.0	0.0	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	55.27	-3.9	-32.71	
LAB*LAB	55.27	0.0	0.0	
LAB*LAB	62.5	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.0	0.0	0.0	
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*	0.0	0.0	0.0	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	49.33	-2.46	-21.53	
LAB*LAB	49.33	0.0	0.0	
LAB*LAB	50.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.0	0.0	0.0	
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*	0.0	0.0	0.0	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	29.99	-2.69	-23.15	
LAB*LAB	29.99	0.0	0.0	
LAB*LAB	25.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	
relative Natural Colour (NC)	0.0	0.0	0.0	
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*	0.0	0.0	0.0	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	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	

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

Output: Colorimetric Television Luminous System TLS00

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

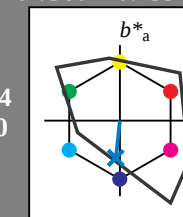
lab^*tch and lab^*nch

D50: hue B

LCH*Ma: 61 54 264

olv*Ma: 0.0 0.59 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 156$

relative Inform. Technology (IT)

olv3*	1.0	1.0	1.0	(1.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	

relative CIELAB lab*

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	71.57	0.0	0.0	
LAB*LAB	71.57	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)	0.75	0.0	0.0	
lab*trj	0.75	0.0	0.0	
lab*tce	0.75	0.0	0.0	
lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	41.88	-5.06	-45.18	
LAB*LAB	41.88	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)	0.5	0.0	0.0	
lab*trj	0.5	0.0	0.0	
lab*tce	0.5	0.0	0.0	
lab*nce	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
cmyn3*	0.0	0.0	0.0	0.0
LAB*LAB	47.72	0.0	0.0	
LAB*LAB	47.72	0.0	0.0	
LAB*LAB	50.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.0	0.0	
lab*tch	0.25	0.0	0.0	
lab*nch	0.0	0.0	0.0	</