

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.106$

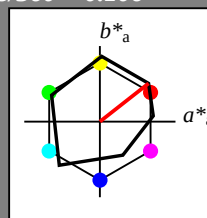
lab^*tch and lab^*nch

A: hue 0

LCH*Ma: 48 82 38

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.6	0.43	4.65
LAB*LAB	95.6	0.0	0.0
LAB*LAB	95.6	0.0	0.0
LAB*LAB	95.6	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	0.0	0.0
lab*lab	1.0	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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.23	0.62	3.36
LAB*LAB	76.23	0.0	0.0
LAB*LAB	76.23	0.0	0.0
LAB*LAB	76.23	0.0	0.0

relative CIELAB lab*

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.86	0.8	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)

relative Natural Colour (NC)

lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(0.0)
lab*lab	0.75	0.75	0.75	(1.0)
lab*lab	0.25	0.25	0.25	(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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	37.49	0.79	0.79
LAB*LAB	37.49	0.0	0.0
LAB*LAB	37.49	0.0	0.0
LAB*LAB	37.49	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	0.25	0.25	(1.0)
lab*lab	0.75	0.75	0.75	(0.0)
lab*lab	0.25	0.25	0.25	(1.0)
lab*lab	0.75	0.75	0.75	(0.0)

relative Natural Colour (NC)

lab*lab	0.25	0.25	0.25	(1.0)
lab*lab	0.75	0.75	0.75	(0.0)
lab*lab	0.25	0.25	0.25	(1.0)
lab*lab	0.75	0.75	0.75	(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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	0.49	0.49
LAB*LAB	18.12	0.0	0.0
LAB*LAB	18.12	0.0	0.0
LAB*LAB	18.12	0.0	0.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	0.0	0.0	0.0
LAB*LAB	1.0	1.0	1.0
LAB*LAB	0.0	0.0	0.0
LAB*LAB	1.0	1.0	1.0

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)

relative Natural Colour (NC)

lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)
lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.0$

$n^* = 1.25$

$n^* = 1.50$

$n^* = 1.75$

$n^* = 2.00$

$n^* = 2.25$

$n^* = 2.50$

$n^* = 2.75$

$n^* = 3.00$

$n^* = 3.25$

$n^* = 3.50$

$n^* = 3.75$

$n^* = 4.00$

$n^* = 4.25$

$n^* = 4.50$

$n^* = 4.75$

$n^* = 5.00$

$n^* = 5.25$

$n^* = 5.50$

$n^* = 5.75$

$n^* = 6.00$

$n^* = 6.25$

$n^* = 6.50$

$n^* = 6.75$

$n^* = 7.00$

$n^* = 7.25$

$n^* = 7.50$

$n^* = 7.75$

$n^* = 8.00$

$n^* = 8.25$

$n^* = 8.50$

$n^* = 8.75$

$n^* = 9.00$

$n^* = 9.25$

$n^* = 9.50$

$n^* = 9.75$

$n^* = 10.00$

$n^* = 10.25$

$n^* = 10.50$

$n^* = 10.75$

$n^* = 11.00$

$n^* = 11.25$

$n^* = 11.50$

$n^* = 11.75$

$n^* = 12.00$

$n^* = 12.25$

$n^* = 12.50$

$n^* = 12.75$

$n^* = 13.00$

$n^* = 13.25$

$n^* = 13.50$

$n^* = 13.75$

$n^* = 14.00$

$n^* = 14.25$

$n^* = 14.50$

$n^* = 14.75$

$n^* = 15.00$

$n^* = 15.25$

$n^* = 15.50$

$n^* = 15.75$

$n^* = 16.00$

$n^* = 16.25$

$n^* = 16.50$

$n^* = 16.75$

$n^* = 17.00$

$n^* = 17.25$

$n^* = 17.50$

$n^* = 17.75$

$n^* = 18.00$

$n^* = 18.25$

$n^* = 18.50$

$n^* = 18.75$

$n^* = 19.00$

$n^* = 19.25$

$n^* = 19.50$

$n^* = 19.75$

$n^* = 20.00$

$n^* = 20.25$

$n^* = 20.50$

$n^* = 20.75$

$n^* = 21.00$

$n^* = 21.25$

$n^* = 21.50$

$n^* = 21.75$

$n^* = 22.00$

$n^* = 22.25$

$n^* = 22.50$

$n^* = 22.75$

$n^* = 23.00$

$n^* = 23.25$

$n^* = 23.50$

$n^* = 23.75$

$n^* = 24.00$

$n^* = 24.25$

$n^* = 24.50$

$n^* = 24.75$

$n^* = 25.00$

$n^* = 25.25$

$n^* = 25.50$

$n^* = 25.75$

$n^* = 26.00$

$n^* = 26.25$

$n^* = 26.50$

$n^* = 26.75$

$n^* = 27.00$

$n^* = 27.25$

$n^* = 27.50$

$n^* = 27.75$

$n^* = 28.00$

n

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 88/360 = 0.246$

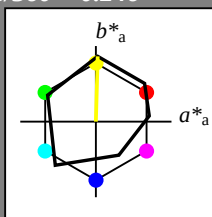
lab^*tch and lab^*nch

A: hue Y

LCH*Ma: 93 86 88

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 96$

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 95.6 0.43 4.65
LAB*LAB 95.6 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*nc 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)
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 76.23 0.62 3.36
LAB*LAB 76.23 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 0.0 -
lab*nch 0.25 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.75 0.0 0.0 -
lab*nce 0.25 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
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 56.86 0.2 2.08
LAB*LAB 56.86 0.0 0.0
LAB*LAB 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0 -
lab*tch 0.5 0.0 0.0 -
lab*nch 0.5 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.5 0.0 0.0 -
lab*nce 0.5 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 37.49 0.18 0.79
LAB*LAB 37.49 0.0 0.0
LAB*LAB 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0 -
lab*tch 0.25 0.0 0.0 -
lab*nch 0.75 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.25 0.0 0.0 -
lab*nce 0.75 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 18.12 0.18 0.49
LAB*LAB 18.12 0.0 0.0
LAB*LAB 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 -
lab*tch 0.0 0.0 0.0 -
lab*nch 1.0 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 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)
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 18.12 0.18 0.49
LAB*LAB 18.12 0.0 0.0
LAB*LAB 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 -
lab*tch 0.0 0.0 0.0 -
lab*nch 1.0 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.0 0.0 0.0 -
lab*nce 1.0 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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

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 94.1 1.65 47.73
LAB*LAB 94.1 0.0 0.0
LAB*LAB 94.1 0.0 0.0

relative CIELAB lab*
lab*lab 0.981 0.014 0.5
lab*tch 0.75 0.5 0.246
lab*nch 0.0 0.5 0.246
relative Natural Colour (NC)
lab*nc 0.981 -0.033 0.499
lab*nce 0.75 0.5 0.246

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 74.74 1.21 43.18
LAB*LAB 74.74 0.0 0.0
LAB*LAB 74.74 0.0 0.0

relative CIELAB lab*
lab*lab 0.731 0.014 0.5
lab*tch 0.5 0.5 0.246
lab*nch 0.0 0.5 0.246
relative Natural Colour (NC)
lab*nc 0.731 -0.033 0.499
lab*nce 0.5 0.5 0.246

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 55.37 2.02 43.31
LAB*LAB 55.37 0.0 0.0
LAB*LAB 55.37 0.0 0.0

relative CIELAB lab*
lab*lab 0.481 0.014 0.5
lab*tch 0.25 0.5 0.246
lab*nch 0.0 0.5 0.246
relative Natural Colour (NC)
lab*nc 0.481 -0.033 0.499
lab*nce 0.25 0.5 0.246

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 36.74 0.6 21.58
LAB*LAB 36.74 0.0 0.0
LAB*LAB 36.74 0.0 0.0

relative CIELAB lab*
lab*lab 0.24 0.007 0.25
lab*tch 0.125 0.25 0.246
lab*nch 0.75 0.0 0.0
relative Natural Colour (NC)
lab*nc 0.24 -0.016 0.249
lab*nce 0.125 0.25 0.246

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 18.12 0.18 0.49
LAB*LAB 18.12 0.0 0.0
LAB*LAB 0.01 0.01 -

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 94/360 = 0.261$

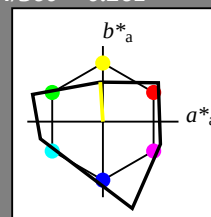
lab^*tch and lab^*nch

A: hue Y

LCH*Ma: 95 52 94

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 141$

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 0.0 -
relative Natural Colour (NC)
lab*nc 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)
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*LAB 71.57 0.0 0.0

relative CIELAB lab*
lab*lab 0.997 -0.032 0.499
lab*tch 0.75 0.5 0.261
lab*nch 0.0 0.5 0.261
relative Natural Colour (NC)
lab*nc 0.997 -0.083 0.493
lab*nce 0.75 0.5 0.261

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 50.01 0.0 0.0
LAB*LAB 50.01 0.0 0.0
LAB*LAB 50.01 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0 -
lab*tch 0.5 0.0 0.0 -
lab*nch 0.5 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.5 0.0 0.0 -
lab*nce 0.5 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 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0 -
lab*tch 0.25 0.0 0.0 -
lab*nch 0.75 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.25 0.0 0.0 -
lab*nce 0.75 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 0.03 0.0 0.0
LAB*LAB 0.03 0.0 0.0
LAB*LAB 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 -
lab*tch 0.0 0.0 0.0 -
lab*nch 1.0 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 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)
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 0.03 0.0 0.0
LAB*LAB 0.03 0.0 0.0
LAB*LAB 0.01 0.01 -

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

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

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 95.24 -0.86 13.05
LAB*LAB 95.24 -0.86 13.05
LAB*LAB 99.99 0.01 -

relative CIELAB lab*
lab*lab 0.998 -0.041 0.246
lab*tch 0.875 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*nc 0.997 -0.083 0.493
lab*nce 0.875 0.25 0.261

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 71.4 -0.87 13.06
LAB*LAB 71.4 -0.87 13.06
LAB*LAB 71.4 -0.87 13.06

relative CIELAB lab*
lab*lab 0.997 -0.032 0.499
lab*tch 0.75 0.5 0.261
lab*nch 0.0 0.5 0.261
relative Natural Colour (NC)
lab*nc 0.997 -0.083 0.493
lab*nce 0.75 0.5 0.261

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 50.01 0.0 0.0
LAB*LAB 50.01 0.0 0.0
LAB*LAB 50.01 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0 -
lab*tch 0.5 0.0 0.0 -
lab*nch 0.5 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.5 0.0 0.0 -
lab*nce 0.5 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 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0 -
lab*tch 0.25 0.0 0.0 -
lab*nch 0.75 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.25 0.0 0.0 -
lab*nce 0.75 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 0.03 0.0 0.0
LAB*LAB 0.03 0.0 0.0
LAB*LAB 0.01 0.01 -

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

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 94.93 -2.61 39.17
LAB*LAB 94.93 -2.61 39.17
LAB*LAB 99.99 0.01 -

relative CIELAB lab*
lab*lab 0.985 -0.049 0.748
lab*tch 0.625 0.75 0.261
lab*nch 0.0 0.75 0.261
relative Natural Colour (NC)
lab*nc 0.995 -0.125 0.739
lab*nce 0.625 0.75 0.261

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 71.25 -1.74 26.12
LAB*LAB 71.25 -1.74 26.12
LAB*LAB 71.25 -1.74 26.12

relative CIELAB lab*
lab*lab 0.997 -0.032 0.499
lab*tch 0.75 0.5 0.261
lab*nch 0.0 0.5 0.261
relative Natural Colour (NC)
lab*nc 0.997 -0.083 0.493
lab*nce 0.75 0.5 0.261

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 50.01 0.0 0.0
LAB*LAB 50.01 0.0 0.0
LAB*LAB 50.01 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0 -
lab*tch 0.5 0.0 0.0 -
lab*nch 0.5 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.5 0.0 0.0 -
lab*nce 0.5 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 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0
LAB*LAB 23.87 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0 -
lab*tch 0.25 0.0 0.0 -
lab*nch 0.75 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.25 0.0 0.0 -
lab*nce 0.75 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 0.03 0.0 0.0
LAB*LAB 0.03 0.0 0.0
LAB*LAB 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 -
lab*tch 0.0 0.0 0.0 -
lab*nch 1.0 0.0 0.0 -
relative Natural Colour (NC)
lab*nc 0.0 0.0 0.

Input: Colorimetric Offset Reflective System ORS18

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

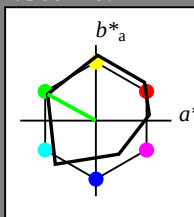
lab^*tch and lab^*nch

A: hue L

LCH*Ma: 51 73 151

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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

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

relative Inform. Technology (IT)

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

LAB*TCHa	87.5	18.19	151.25
relative CIELAB lab*			
lab*lab	0.856	-0.218	0.12
lab*tch	0.875	0.25	0.42
lab*nch	0.0	0.25	0.42
relative Natural Colour (NC)			
lab*lrj	0.856	-0.227	0.102
lab*tce	0.875	0.25	0.433
lab*nce	0.0	0.25	j73g

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 304/360 = 0.845$

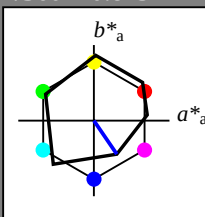
lab^*tch and lab^*nch

A: hue V

LCH*Ma: 26 54 304

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
RC _{IE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

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 95.6 0.0 0.0
LAB*LABa 95.6 0.0 0.0
LAB*LABb 95.6 0.0 0.0
LAB*LABc 95.6 0.0 0.0
LAB*LABd 95.6 0.0 0.0
LAB*LABe 95.6 0.0 0.0
LAB*LABf 95.6 0.0 0.0
LAB*LABg 95.6 0.0 0.0
LAB*LABh 95.6 0.0 0.0
LAB*LABi 95.6 0.0 0.0
LAB*LABj 95.6 0.0 0.0
LAB*LABk 95.6 0.0 0.0
LAB*LABl 95.6 0.0 0.0
LAB*LABm 95.6 0.0 0.0
LAB*LABn 95.6 0.0 0.0
LAB*LABo 95.6 0.0 0.0
LAB*LABp 95.6 0.0 0.0
LAB*LABq 95.6 0.0 0.0
LAB*LABr 95.6 0.0 0.0
LAB*LABs 95.6 0.0 0.0
LAB*LABt 95.6 0.0 0.0
LAB*LABu 95.6 0.0 0.0
LAB*LABv 95.6 0.0 0.0
LAB*LABw 95.6 0.0 0.0
LAB*LABx 95.6 0.0 0.0
LAB*LABy 95.6 0.0 0.0
LAB*LABz 95.6 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* 0.75 0.75 0.75 (1.0)
cmyn4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 78.13 8.18 -7.58
LAB*LABa 78.13 7.38 -11.08
LAB*LABb 78.13 13.43 304.36
LAB*LABc 78.13 13.43 304.36
LAB*LABd 78.13 13.43 304.36
LAB*LABe 78.13 13.43 304.36
LAB*LABf 78.13 13.43 304.36
LAB*LABg 78.13 13.43 304.36
LAB*LABh 78.13 13.43 304.36
LAB*LABi 78.13 13.43 304.36
LAB*LABj 78.13 13.43 304.36
LAB*LABk 78.13 13.43 304.36
LAB*LABl 78.13 13.43 304.36
LAB*LABm 78.13 13.43 304.36
LAB*LABn 78.13 13.43 304.36
LAB*LABo 78.13 13.43 304.36
LAB*LABp 78.13 13.43 304.36
LAB*LABq 78.13 13.43 304.36
LAB*LABr 78.13 13.43 304.36
LAB*LABs 78.13 13.43 304.36
LAB*LABt 78.13 13.43 304.36
LAB*LABu 78.13 13.43 304.36
LAB*LABv 78.13 13.43 304.36
LAB*LABw 78.13 13.43 304.36
LAB*LABx 78.13 13.43 304.36
LAB*LABy 78.13 13.43 304.36
LAB*LABz 78.13 13.43 304.36

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 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 60.66 15.94 -19.84
LAB*LABa 60.66 15.17 -22.17
LAB*LABb 60.66 26.87 304.36
LAB*LABc 60.66 26.87 304.36
LAB*LABd 60.66 26.87 304.36
LAB*LABe 60.66 26.87 304.36
LAB*LABf 60.66 26.87 304.36
LAB*LABg 60.66 26.87 304.36
LAB*LABh 60.66 26.87 304.36
LAB*LABi 60.66 26.87 304.36
LAB*LABj 60.66 26.87 304.36
LAB*LABk 60.66 26.87 304.36
LAB*LABl 60.66 26.87 304.36
LAB*LABm 60.66 26.87 304.36
LAB*LABn 60.66 26.87 304.36
LAB*LABo 60.66 26.87 304.36
LAB*LABp 60.66 26.87 304.36
LAB*LABq 60.66 26.87 304.36
LAB*LABr 60.66 26.87 304.36
LAB*LABs 60.66 26.87 304.36
LAB*LABt 60.66 26.87 304.36
LAB*LABu 60.66 26.87 304.36
LAB*LABv 60.66 26.87 304.36
LAB*LABw 60.66 26.87 304.36
LAB*LABx 60.66 26.87 304.36
LAB*LABy 60.66 26.87 304.36
LAB*LABz 60.66 26.87 304.36

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 0.25 0.25 0.25 (1.0)
cmyn4* 0.75 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 43.19 23.69 -32.09
LAB*LABa 43.19 23.75 -32.27
LAB*LABb 43.19 40.31 304.36
LAB*LABc 43.19 40.31 304.36
LAB*LABd 43.19 40.31 304.36
LAB*LABe 43.19 40.31 304.36
LAB*LABf 43.19 40.31 304.36
LAB*LABg 43.19 40.31 304.36
LAB*LABh 43.19 40.31 304.36
LAB*LABi 43.19 40.31 304.36
LAB*LABj 43.19 40.31 304.36
LAB*LABk 43.19 40.31 304.36
LAB*LABl 43.19 40.31 304.36
LAB*LABm 43.19 40.31 304.36
LAB*LABn 43.19 40.31 304.36
LAB*LABo 43.19 40.31 304.36
LAB*LABp 43.19 40.31 304.36
LAB*LABq 43.19 40.31 304.36
LAB*LABr 43.19 40.31 304.36
LAB*LABs 43.19 40.31 304.36
LAB*LABt 43.19 40.31 304.36
LAB*LABu 43.19 40.31 304.36
LAB*LABv 43.19 40.31 304.36
LAB*LABw 43.19 40.31 304.36
LAB*LABx 43.19 40.31 304.36
LAB*LABy 43.19 40.31 304.36
LAB*LABz 43.19 40.31 304.36

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.73 31.44 -44.34
LAB*LABa 25.73 30.34 -44.36
LAB*LABb 25.73 50.0 304.36
LAB*LABc 25.73 50.0 304.36
LAB*LABd 25.73 50.0 304.36
LAB*LABe 25.73 50.0 304.36
LAB*LABf 25.73 50.0 304.36
LAB*LABg 25.73 50.0 304.36
LAB*LABh 25.73 50.0 304.36
LAB*LABi 25.73 50.0 304.36
LAB*LABj 25.73 50.0 304.36
LAB*LABk 25.73 50.0 304.36
LAB*LABl 25.73 50.0 304.36
LAB*LABm 25.73 50.0 304.36
LAB*LABn 25.73 50.0 304.36
LAB*LABo 25.73 50.0 304.36
LAB*LABp 25.73 50.0 304.36
LAB*LABq 25.73 50.0 304.36
LAB*LABr 25.73 50.0 304.36
LAB*LABs 25.73 50.0 304.36
LAB*LABt 25.73 50.0 304.36
LAB*LABu 25.73 50.0 304.36
LAB*LABv 25.73 50.0 304.36
LAB*LABw 25.73 50.0 304.36
LAB*LABx 25.73 50.0 304.36
LAB*LABy 25.73 50.0 304.36
LAB*LABz 25.73 50.0 304.36

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 289/360 = 0.802$

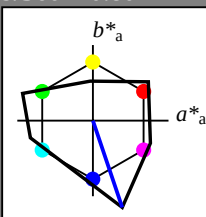
lab^*tch and lab^*nch

A: hue V

LCH*Ma: 13 121 289

olv*Ma: 0.0 0.0 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}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

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*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0
LAB*LABd 95.41 0.0 0.0
LAB*LABe 95.41 0.0 0.0
LAB*LABf 95.41 0.0 0.0
LAB*LABg 95.41 0.0 0.0
LAB*LABh 95.41 0.0 0.0
LAB*LABi 95.41 0.0 0.0
LAB*LABj 95.41 0.0 0.0
LAB*LABk 95.41 0.0 0.0
LAB*LABl 95.41 0.0 0.0
LAB*LABm 95.41 0.0 0.0
LAB*LABn 95.41 0.0 0.0
LAB*LABo 95.41 0.0 0.0
LAB*LABp 95.41 0.0 0.0
LAB*LABq 95.41 0.0 0.0
LAB*LABr 95.41 0.0 0.0
LAB*LABs 95.41 0.0 0.0
LAB*LABt 95.41 0.0 0.0
LAB*LABu 95.41 0.0 0.0
LAB*LABv 95.41 0.0 0.0
LAB*LABw 95.41 0.0 0.0
LAB*LABx 95.41 0.0 0.0
LAB*LABy 95.41 0.0 0.0
LAB*LABz 95.41 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* 0.75 0.75 0.75 (1.0)
cmyn4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 74.69 9.7 -28.68
LAB*LABa 74.69 9.7 -28.68
LAB*LABb 74.69 16.3 304.36
LAB*LABc 74.69 16.3 304.36
LAB*LABd 74.69 16.3 304.36
LAB*LABe 74.69 16.3 304.36
LAB*LABf 74.69 16.3 304.36
LAB*LABg 74.69 16.3 304.36
LAB*LABh 74.69 16.3 304.36
LAB*LABi 74.69 16.3 304.36
LAB*LABj 74.69 16.3 304.36
LAB*LABk 74.69 16.3 304.36
LAB*LABl 74.69 16.3 304.36
LAB*LABm 74.69 16.3 304.36
LAB*LABn 74.69 16.3 304.36
LAB*LABo 74.69 16.3 304.36
LAB*LABp 74.69 16.3 304.36
LAB*LABq 74.69 16.3 304.36
LAB*LABr 74.69 16.3 304.36
LAB*LABs 74.69 16.3 304.36
LAB*LABt 74.69 16.3 304.36
LAB*LABu 74.69 16.3 304.36
LAB*LABv 74.69 16.3 304.36
LAB*LABw 74.69 16.3 304.36
LAB*LABx 74.69 16.3 304.36
LAB*LABy 74.69 16.3 304.36
LAB*LABz 74.69 16.3 304.36

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 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 50.85 9.7 -28.67
LAB*LABa 50.85 9.7 -28.67
LAB*LABb 50.85 16.3 304.36
LAB*LABc 50.85 16.3 304.36
LAB*LABd 50.85 16.3 304.36
LAB*LABe 50.85 16.3 304.36
LAB*LABf 50.85 16.3 304.36
LAB*LABg 50.85 16.3 304.36
LAB*LABh 50.85 16.3 304.36
LAB*LABi 50.85 16.3 304.36
LAB*LABj 50.85 16.3 304.36
LAB*LABk 50.85 16.3 304.36
LAB*LABl 50.85 16.3 304.36
LAB*LABm 50.85 16.3 304.36
LAB*LABn 50.85 16.3 304.36
LAB*LABo 50.85 16.3 304.36
LAB*LABp 50.85 16.3 304.36
LAB*LABq 50.85 16.3 304.36
LAB*LABr 50.85 16.3 304.36
LAB*LABs 50.85 16.3 304.36
LAB*LABt 50.85 16.3 304.36
LAB*LABu 50.85 16.3 304.36
LAB*LABv 50.85 16.3 304.36
LAB*LABw 50.85 16.3 304.36
LAB*LABx 50.85 16.3 304.36
LAB*LABy 50.85 16.3 304.36
LAB*LABz 50.85 16.3 304.36

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 0.25 0.25 0.25 (1.0)
cmyn4* 0.75 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 30.85 9.7 -28.67
LAB*LABa 30.85 9.7 -28.67
LAB*LABb 30.85 16.3 304.36
LAB*LABc 30.85 16.3 304.36
LAB*LABd 30.85 16.3 304.36
LAB*LABe 30.85 16.3 304.36
LAB*LABf 30.85 16.3 304.36
LAB*LABg 30.85 16.3 304.36
LAB*LABh 30.85 16.3 304.36
LAB*LABi 30.85 16.3 304.36
LAB*LABj 30.85 16.3 304.36
LAB*LABk 30.85 16.3 304.36
LAB*LABl 30.85 16.3 304.36
LAB*LABm 30.85 16.3 304.36
LAB*LABn 30.85 16.3 304.36
LAB*LABo 30.85 16.3 304.36
LAB*LABp 30.85 16.3 304.36
LAB*LABq 30.85 16.3 304.36
LAB*LABr 30.85 16.3 304.36
LAB*LABs 30.85 16.3 304.36
LAB*LABt 30.85 16.3 304.36
LAB*LABu 30.85 16.3 304.36
LAB*LABv 30.85 16.3 304.36
LAB*LABw 30.85 16.3 304.36
LAB*LABx 30.85 16.3 304.36
LAB*LABy 30.85 16.3 304.36
LAB*LABz 30.85 16.3 304.36

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 1.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 12.56 38.8 -114.77
LAB*LABa 12.56 38.8 -114.77
LAB*LABb 12.56 66.7 304.36
LAB*LABc 12.56 66.7 304.36
LAB*LABd 12.56 66.7 304.36
LAB*LABe 12.56 66.7 304.36
LAB*LABf 12.56 66.7 304.36
LAB*LABg 12.56 66.7 304.36
LAB*LABh 12.56 66.7 304.36
LAB*LABi 12.56 66.7 304.36
LAB*LABj 12.56 66.7 304.36
LAB*LABk 12.56 66.7 304.36
LAB*LABl 12.56 66.7 304.36
LAB*LABm 12.56 66.7 304.36
LAB*LABn 12.56 66.7 304.36
LAB*LABo 12.56 66.7 304.36
LAB*LABp 12.56 66.7 304.36
LAB*LABq 12.56 66.7 304.36
LAB*LABr 12.56 66.7 304.36
LAB*LABs 12.56 66.7 304.36
LAB*LABt 12.56 66.7 304.36
LAB*LABu 12.56 66.7 304.36
LAB*LABv 12.56 66.7 304.36
LAB*LABw 12.56 66.7 304.36
LAB*LABx 12.56 66.7 304.36
LAB*LABy 12.56 66.7 304.36
LAB*LABz 12.56 66.7 304.36

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 76.23 0.62 3.36
LAB*LABa 76.23 0.62 3.36
LAB*LABb 76.23 0.62 3.36
LAB*LABc 76.23 0.62 3.36
LAB*LABd 76.23 0.62 3.36
LAB*LABe 76.23 0.62 3.36
LAB*LABf 76.23 0.62 3.36
LAB*LABg 76.23 0.62 3.36
LAB*LABh 76.23 0.62 3.36
LAB*LABi 76.23 0.62 3.36
LAB*LABj 76.23 0.62 3.36
LAB*LABk 76.23 0.62 3.36
LAB*LABl 76.23 0.62 3.36
LAB*LABm 76.23 0.62 3.36
LAB*LABn 76.23 0.62 3.36
LAB*LABo 76.23 0.62 3.36
LAB*LABp 76.23 0.62 3.36
LAB*LABq 76.23 0.62 3.36
LAB*LABr 76.23 0.62 3.36
LAB*LABs 76.23 0.62 3.36
LAB*LABt 76.23 0.62 3.36
LAB*LABu 76.23 0.62 3.36
LAB*LABv 76.23 0.62 3.36
LAB*LABw 76.23 0.62 3.36
LAB*LABx 76.23 0.62 3.36
LAB*LABy 76.23 0.62 3.36
LAB*LABz 76.23 0.62 3.36

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 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 58.76 8.37 -8.87
LAB*LABa 58.76 8.37 -8.87
LAB*LABb 58.76 15.17 -11.08
LAB*LABc 58.76 15.17 -11.08
LAB*LABd 58.76 15.17 -11.08
LAB*LABe 58.76 15.17 -11.08
LAB*LABf 58.76 15.17 -11.08
LAB*LABg 58.76 15.17 -11.08
LAB*LABh 58.76 15.17 -11.08
LAB*LABi 58.76 15.17 -11.08
LAB*LABj 58.76 15.17 -11.08
LAB*LABk 58.76 15.17 -11.08
LAB*LABl 58.76 15.17 -11.08
LAB*LABm 58.76 15.17 -11.08
LAB*LABn 58.76 15.17 -11.08
LAB*LABo 58.76 15.17 -11.08
LAB*LABp 58.76 15.17 -11.08
LAB*LABq 58.76 15.17 -11.08
LAB*LABr 58.76 15.17 -11.08
LAB*LABs 58.76 15.17 -11.08
LAB*LABt 58.76 15.17 -11.08
LAB*LABu 58.76 15.17 -11.08
LAB*LABv 58.76 15.17 -11.08
LAB*LABw 58.76 15.17 -11.08
LAB*LABx 58.76 15.17 -11.08
LAB*LABy 58.76 15.17 -11.08
LAB*LABz 58.76

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 6/360 = 0.017$

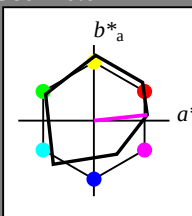
lab^*tch and lab^*nch

A: hue M

LCH*Ma: 56 71 6

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



$u^*_{rel} = 96$

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.6	0.43	4.65
LAB*LAB	95.6	0.0	0.0
LAB*LAB	95.6	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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	85.76	18.17	5.9
LAB*LAB	85.76	17.65	1.89
LAB*LAB	85.76	17.65	1.89

relative Inform. Technology (IT)

olv3*	1.0	0.5	1.0	(1.0)
olv3*	0.0	0.5	0.0	(0.0)
olv4*	1.0	0.5	1.0	(1.0)
olv4*	0.0	0.5	0.0	(0.0)
olv5*	1.0	0.5	1.0	(1.0)
olv5*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	75.92	35.91	7.13
LAB*LAB	75.92	35.29	3.78
LAB*LAB	75.92	35.29	3.78

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	66.39	18.36	4.61
LAB*LAB	66.39	17.65	1.89
LAB*LAB	66.39	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	66.08	18.33	5.67
LAB*LAB	66.08	17.65	1.89
LAB*LAB	66.08	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.86	18.36	4.61
LAB*LAB	56.86	17.65	1.89
LAB*LAB	56.86	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.55	36.1	5.85
LAB*LAB	56.55	35.29	3.78
LAB*LAB	56.55	35.29	3.78

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	47.02	18.35	3.32
LAB*LAB	47.02	17.65	1.89
LAB*LAB	47.02	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	46.72	53.04	7.08
LAB*LAB	46.72	52.93	5.67
LAB*LAB	46.72	52.93	5.67

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	37.48	36.28	4.3
LAB*LAB	37.48	35.29	3.78
LAB*LAB	37.48	35.29	3.78

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	37.51	53.24	6.12
LAB*LAB	37.51	52.93	5.67
LAB*LAB	37.51	52.93	5.67

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	27.18	18.73	2.03
LAB*LAB	27.18	17.65	1.89
LAB*LAB	27.18	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	27.18	18.73	2.03
LAB*LAB	27.18	17.65	1.89
LAB*LAB	27.18	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	18.12	0.49
LAB*LAB	18.12	17.65	1.89
LAB*LAB	18.12	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	18.12	0.49
LAB*LAB	18.12	17.65	1.89
LAB*LAB	18.12	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	18.12	0.49
LAB*LAB	18.12	17.65	1.89
LAB*LAB	18.12	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	18.12	0.49
LAB*LAB	18.12	17.65	1.89
LAB*LAB	18.12	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	18.12	0.49
LAB*LAB	18.12	17.65	1.89
LAB*LAB	18.12	17.65	1.89

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	18.12	0.49
LAB*LAB	18.12	17.65	1.89
LAB*LAB	18.12	17.65	1.89

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 339/360 = 0.941$

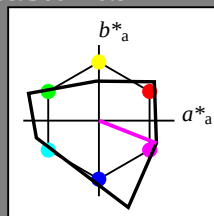
lab^*tch and lab^*nch

A: hue M

LCH*Ma: 67 82 339

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



$u^*_{rel} = 141$

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	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

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	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

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	64.39	19.02	-7.44
LAB*LAB	64.39	19.02	-7.44
LAB*LAB	64.39	19.02	-7

A diagram of a linear genome represented by two horizontal lines. A segment of the top line is colored red and labeled 'L' below it. A segment of the bottom line is colored blue and labeled 'V' below it. The red and blue segments overlap in the center.

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 84/360 = 0.235$

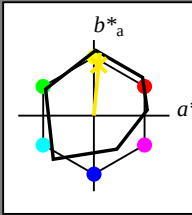
lab^*tch and lab^*nch

A: hue J

LCH*Ma: 89 83 84

olv*Ma: 1.0 0.91 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 96$

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)
olv4*	0.0	0.0	0.0 (0.0)

relative Inform. Technology (IT)			
olv3*	1.0	0.977	0.75 (1.0)
olv3*	0.0	0.023	0.25 (0.0)
olv4*	1.0	0.977	0.75 (1.0)
olv4*	0.0	0.023	0.25 (0.0)
olv4*	0.0	0.023	0.25 (0.0)

relative Inform. Technology (IT)			
olv3*	1.0	0.977	0.75 (1.0)
olv3*	0.0	0.023	0.25 (0.0)
olv4*	1.0	0.977	0.75 (1.0)
olv4*	0.0	0.023	0.25 (0.0)
olv4*	0.0	0.023	0.25 (0.0)

relative Inform. Technology (IT)			
olv3*	1.0	0.977	0.75 (1.0)
olv3*	0.0	0.023	0.25 (0.0)
olv4*	1.0	0.977	0.75 (1.0)
olv4*	0.0	0.023	0.25 (0.0)
olv4*	0.0	0.023	0.25 (0.0)

relative Inform. Technology (IT)			
olv3*	1.0	0.977	0.75 (1.0)
olv3*	0.0	0.023	0.25 (0.0)
olv4*	1.0	0.977	0.75 (1.0)
olv4*	0.0	0.023	0.25 (0.0)
olv4*	0.0	0.023	0.25 (0.0)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 84/360 = 0.234$

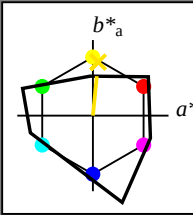
lab^*tch and lab^*nch

A: hue J

LCH*Ma: 91 52 84

olv*Ma: 1.0 0.89 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 141$

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)
olv4*	0.0	0.0	0.0 (0.0)

relative Inform. Technology (IT)			
olv3*	1.0	0.972	0.75 (1.0)
olv3*	0.0	0.028	0.25 (0.0)
olv4*	1.0	0.972	0.75 (1.0)
olv4*	0.0	0.028	0.25 (0.0)
olv4*	0.0	0.028	0.25 (0.0)

relative Inform. Technology (IT)			
olv3*	1.0	0.972	0.75 (1.0)
olv3*	0.0	0.028	0.25 (0.0)
olv4*	1.0	0.972	0.75 (1.0)
olv4*	0.0	0.028	0.25 (0.0)
olv4*	0.0	0.028	0.25 (0.0)

relative Inform. Technology (IT)			
olv3*	1.0	0.972	0.75 (1.0)
olv3*	0.0	0.028	0.25 (0.0)
olv4*	1.0	0.972	0.75 (1.0)
olv4*	0.0	0.028	0.25 (0.0)
olv4*	0.0	0.028	0.25 (0.0)

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

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

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

relative Inform. Technology (IT)			
olv3*	0.75	0.75	0.75 (1.0)</

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 176/360 = 0.488$

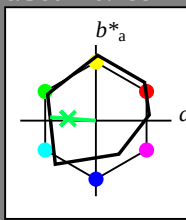
lab^*tch and lab^*nch

A: hue G

LCH*Ma: 51 61 176

olv*Ma: 0.0 1.0 0.33

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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

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 95.6 0.43 4.65
LAB*LABa 95.6 0.0 0.0
LAB*LABb 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*tr 1.0 0.0 -
lab*ce 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 76.23 0.62 3.36
LAB*LABa 76.23 0.0 0.0
LAB*LABb 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*ce 0.75 0.0 0.0
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
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 56.86 0.2 2.08
LAB*LABa 56.86 0.0 0.0
LAB*LABb 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*ce 0.5 0.0 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 37.48 0.18 0.79
LAB*LABa 37.49 0.0 0.0
LAB*LABb 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*tr 0.25 0.0 0.0
lab*ce 0.25 0.0 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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.12 0.18 0.49
LAB*LABa 18.12 0.0 0.0
LAB*LABb 0.0 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 0.0 0.0 0.0
lab*nce 1.0 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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.12 0.18 0.49
LAB*LABa 18.12 0.0 0.0
LAB*LABb 0.0 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 0.0 0.0 0.0
lab*nce 1.0 0.0 -

RE500-7, 5 step scales for constant CIELAB hue 176/360 = 0.488 (left)

BAM-test chart RE50; Colorimetric systems ORS18 & ORS15

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 173/360 = 0.481$

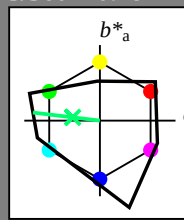
lab^*tch and lab^*nch

A: hue G

LCH*Ma: 78 89 173

olv*Ma: 0.0 1.0 0.43

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

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*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 -

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*ch 1.0 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*tr 1.0 0.0 -
lab*ce 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*LABa 71.57 0.0 0.0
LAB*LABb 75.0 0.01 -

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*ch 0.75 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*tr 0.75 0.0 0.0
lab*ce 0.75 0.0 0.0
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
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 51.02 -59.62 6.26
LAB*LABa 51.02 -60.48 4.56
LAB*LABb 50.0 0.01 -

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*ch 0.5 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0
lab*ce 0.5 0.0 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 34.78 0.18 0.79
LAB*LABa 34.79 0.0 0.0
LAB*LABb 25.0 0.01 -

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*ch 0.25 0.0 0.0
lab*nch 0.0 0.0 -
relative Natural Colour (NC)
lab*tr 0.25 0.0 0.0
lab*ce 0.25 0.0 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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.12 0.18 0.49
LAB*LABa 18.12 0.0 0.0
LAB*LABb 0.0 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 0.0 0.0 0.0
lab*nce 1.0 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 (1.0)
standard and adapted CIELAB
LAB*LAB 18.12 0.18 0.49
LAB*LABa 18.12 0.0 0.0
LAB*LABb 0.0 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*ch 0.0 0.0 0.0
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*ce 0.0 0.0 0.0
lab*nce 1.0 0.0 -

5 step scales for constant CIELAB hue 173/360 = 0.481 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 252/360 = 0.7$

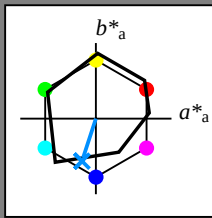
lab^*tch and lab^*nch

A: hue B

LCH*Ma: 40 55 252

olv*Ma: 0.0 0.56 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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.6	0.43	4.65
LAB*LAB	95.6	0.0	0.0
LAB*LAB	95.6	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.23	0.62	3.36
LAB*LAB	76.23	0.0	0.0
LAB*LAB	76.23	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.86	0.2	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.5	0.5	0.5	(0.0)
olv4*	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)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.86	0.2	2.08
LAB*LAB	56.86	0.0	0.0
LAB*LAB	56.86	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	37.49	0.79	0.79
LAB*LAB	37.49	0.0	0.0
LAB*LAB	37.49	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	37.49	0.79	0.79
LAB*LAB	37.49	0.0	0.0
LAB*LAB	37.49	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	0.49	0.49
LAB*LAB	18.12	0.0	0.0
LAB*LAB	18.12	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	0.49	0.49
LAB*LAB	18.12	0.0	0.0
LAB*LAB	18.12	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	0.49	0.49
LAB*LAB	18.12	0.0	0.0
LAB*LAB	18.12	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.12	0.49	0.49
LAB*LAB	18.12	0.0	0.0
LAB*LAB	18.12	0.0	0.0

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 253/360 = 0.703$

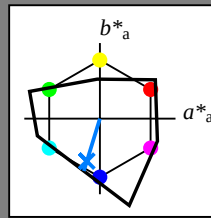
lab^*tch and lab^*nch

A: hue B

LCH*Ma: 45 72 253

olv*Ma: 0.0 0.49 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}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	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

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

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)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	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

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

relative Natural Colour (NC)

lab*lab	1.0	0.0	0.0
lab*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0

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)
olv5*	1.0	1.0	1.0	(