

Input: Colorimetric Offset Reflective System ORS18

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

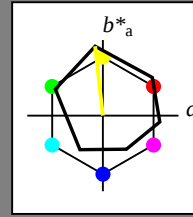
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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 -0.98 47.5
LAB*LABa 95.41 0.0 0.0
LAB*TCa 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* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCa 75.00 0.01 -

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

relative Inform. Technology (IT)
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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCa 50.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.08 0.68
LAB*LABa 37.36 0.0 0.0
LAB*TCa 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 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
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 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

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

$n^* = 1.0$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 1.0
cmyn4* 0.0 0.0 0.5 0.0
standard and adapted CIELAB
LAB*LAB 92.88 -6.06 50.46
LAB*LABa 92.88 -3.12 45.87
LAB*TCa 75.00 46.15 96.38

relative CIELAB lab*
lab*lab 0.967 -0.055 4.97
lab*tch 0.75 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*trj 0.967 -0.048 4.97
lab*tce 0.75 0.5 0.268
lab*nce 0.0 0.5 0.268

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.5 (1.0)
cmyn3* 0.25 0.25 0.5 (0.0)
olv4* 1.0 1.0 0.5 0.75
cmyn4* 0.0 0.0 0.5 0.25
standard and adapted CIELAB
LAB*LAB 74.8 -3.15 26.3
LAB*LABa 74.8 -2.56 22.94
LAB*TCa 62.5 23.08 96.38

relative CIELAB lab*
lab*lab 0.734 -0.024 0.249
lab*tch 0.625 0.25 0.266
lab*nch 0.0 0.25 0.266
relative Natural Colour (NC)
lab*trj 0.734 -0.024 0.249
lab*tce 0.625 0.25 0.266
lab*nce 0.0 0.25 0.266

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 0.5 0.5
cmyn4* 0.0 0.0 0.5 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCa 50.00 46.15 96.38

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 0.25 0.25
cmyn4* 0.0 0.0 0.25 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.08 0.68
LAB*LABa 37.36 0.0 0.0
LAB*TCa 25.00 46.15 96.38

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

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 1.0 1.0 0.25 (1.0)
cmyn3* 0.0 0.0 0.25 (0.0)
olv4* 1.0 1.0 0.25 1.0
cmyn4* 0.0 0.0 0.25 0.0
standard and adapted CIELAB
LAB*LAB 91.62 -8.61 73.31
LAB*LABa 91.62 -6.89 68.8
LAB*TCa 62.5 69.23 96.38

relative CIELAB lab*
lab*lab 0.951 -0.082 0.745
lab*tch 0.625 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*trj 0.951 -0.073 0.746
lab*tce 0.625 0.75 0.268
lab*nce 0.0 0.75 0.268

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olv4* 1.0 1.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 90.36 -11.15 96.15
LAB*LABa 90.36 -10.25 91.73
LAB*TCa 50.00 92.3 96.38

relative CIELAB lab*
lab*lab 0.938 -0.11 0.994
lab*tch 0.5 0.0 0.268
lab*nch 0.0 0.0 0.268
relative Natural Colour (NC)
lab*trj 0.938 -0.097 0.995
lab*tce 0.5 0.0 0.268
lab*nce 0.0 0.0 0.268

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olv4* 1.0 1.0 0.5 0.5
cmyn4* 0.0 0.0 0.5 0.5
standard and adapted CIELAB
LAB*LAB 72.28 -8.23 72.0
LAB*LABa 72.28 -7.69 68.8
LAB*TCa 57.1 69.23 96.38

relative CIELAB lab*
lab*lab 0.701 -0.082 0.745
lab*tch 0.375 0.75 0.268
lab*nch 0.0 0.75 0.268
relative Natural Colour (NC)
lab*trj 0.701 -0.073 0.746
lab*tce 0.375 0.75 0.268
lab*nce 0.0 0.75 0.268

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.75 0.75 0.0 (0.0)
olv4* 1.0 1.0 0.25 0.25
cmyn4* 0.0 0.0 0.25 0.25
standard and adapted CIELAB
LAB*LAB 54.19 -5.22 45.87
LAB*LABa 54.19 -5.12 45.87
LAB*TCa 25.01 46.15 96.38

relative CIELAB lab*
lab*lab 0.467 -0.055 4.97
lab*tch 0.25 0.5 0.268
lab*nch 0.0 0.5 0.268
relative Natural Colour (NC)
lab*trj 0.467 -0.048 4.97
lab*tce 0.25 0.5 0.268
lab*nce 0.0 0.5 0.268

$n^* = 0.25$

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.75 0.75 0.0 (0.0)
olv4* 1.0 1.0 0.25 0.25
cmyn4* 0.0 0.0 0.25 0.25
standard and adapted CIELAB
LAB*LAB 47.94 -0.98 47.5
LAB*LABa 47.94 0.0 0.0
LAB*TCa 12.5 19.34 90.0

relative CIELAB lab*
lab*lab 0.125 0.0 0.25
lab*tch 0.125 0.0 0.25
lab*nch 0.0 0.0 0.25
relative Natural Colour (NC)
lab*trj 0.125 0.0 0.25
lab*tce 0.125 0.0 0.25
lab*nce 0.0 0.0 0.25

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 1.0 1.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 1.0 1.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 1.0 1.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*TCa 0.01 0.01 -

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

$n^* = 0.00$

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 1.0 1.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 1.0 1.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 1.0 1.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olv4* 1.0 1.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*TCa 0.01 0.01 -

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

$n^* = 1.0$

Output: Colorimetric Standard Reflective System SRS18

for hue $h^* = lab^*h = 90/360 = 0.25$

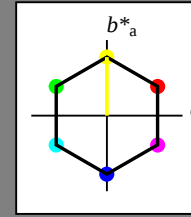
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 57 77 90

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 100$

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*TCa 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* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*TCa 75.00 0.01 -

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

relative Inform. Technology (IT)
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 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*TCa 50.00 0.01 -

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*TCa 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 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
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 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*TCa 0.01 0.01 -

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

$n^* = 1.0$

SRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	56.71	67.03	38.7	77.4	30
Y _{Ma}	56.71	0.0	77.4	77.4	90
L _{Ma}	56.71	-67.02	38.7	77.4	150
C _{Ma}	56.71	-67.02	-38.69	77.4	210
V _{Ma}	56.71	0.0	-77.39	77.4	270
M _{Ma}	56.71	67.03	-38.69	77.4	330
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

Input: Colorimetric Offset Reflective System ORS18

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

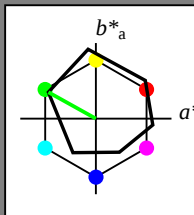
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

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

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0
olv4*	0.0	0.0	0.0
olv5*	0.0	0.0	0.0
olv6*	0.0	0.0	0.0
olv7*	0.0	0.0	0.0
olv8*	0.0	0.0	0.0
olv9*	0.0	0.0	0.0
olv10*	0.0	0.0	0.0
olv11*	0.0	0.0	0.0
olv12*	0.0	0.0	0.0
olv13*	0.0	0.0	0.0
olv14*	0.0	0.0	0.0
olv15*	0.0	0.0	0.0
olv16*	0.0	0.0	0.0
olv17*	0.0	0.0	0.0
olv18*	0.0	0.0	0.0
olv19*	0.0	0.0	0.0
olv20*	0.0	0.0	0.0
olv21*	0.0	0.0	0.0
olv22*	0.0	0.0	0.0
olv23*	0.0	0.0	0.0
olv24*	0.0	0.0	0.0
olv25*	0.0	0.0	0.0
olv26*	0.0	0.0	0.0
olv27*	0.0	0.0	0.0
olv28*	0.0	0.0	0.0

Input: Colorimetric Offset Reflective System ORS18

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

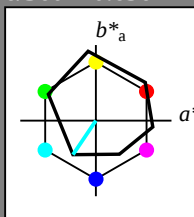
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (0.0)
olv5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.98 47.5
LAB*LABa 95.41 0.0 0.0
LAB*TCMa 99.99 0.01 0.0

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
olv4* 0.75 1.0 1.0 (1.0)
olv5* 0.75 1.0 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 86.21 -8.39 -7.1
LAB*LABa 86.21 -7.57 -11.24
LAB*TCMa 87.5 13.57 236.02

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
olv4* 0.75 1.0 1.0 (1.0)
olv5* 0.75 1.0 1.0 (1.0)
standard and adapted CIELAB
LAB*LAB 77.01 -15.16 -19.98
LAB*LABa 77.01 -15.16 -22.25
LAB*TCMa 75.0 27.14 236.02

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (0.0)
olv5* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*TCMa 75.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
olv4* 0.75 0.75 0.75 (1.0)
olv5* 0.75 0.75 0.75 (1.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCMa 75.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.881 -0.139 -0.206
lab*tch 0.875 0.25 0.583
lab*nch 0.0 0.25 0.583
standard and adapted CIELAB
LAB*LAB 86.21 -8.39 -7.1
LAB*LABa 86.21 -7.57 -11.24
LAB*TCMa 87.5 13.57 236.02

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (0.0)
olv5* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 77.01 -15.16 -19.98
LAB*LABa 77.01 -15.16 -22.25
LAB*TCMa 75.0 27.14 236.02

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
olv4* 0.25 0.25 0.25 (0.0)
olv5* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*TCMa 75.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
olv4* 0.25 0.25 0.25 (0.0)
olv5* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 76.07 0.0 0.0
LAB*LABa 76.07 0.0 0.0
LAB*TCMa 75.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (0.0)
olv5* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.631 -0.123 -0.216
lab*tch 0.625 0.25 0.583
lab*nch 0.0 0.25 0.583
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
olv4* 0.25 0.25 0.25 (0.0)
olv5* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
olv4* 0.25 0.25 0.25 (0.0)
olv5* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
olv4* 0.25 0.25 0.25 (0.0)
olv5* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
olv4* 0.25 0.25 0.25 (0.0)
olv5* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.381 -0.139 -0.206
lab*tch 0.375 0.25 0.583
lab*nch 0.0 0.25 0.583
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (0.0)
olv5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.394 -0.418 -0.621
lab*tch 0.375 0.25 0.583
lab*nch 0.0 0.25 0.583
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.394 -0.418 -0.621
lab*tch 0.375 0.25 0.583
lab*nch 0.0 0.25 0.583
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCMa 50.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (0.0)
olv5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCMa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.131 -0.139 -0.206
lab*tch 0.125 0.25 0.583
lab*nch 0.0 0.25 0.583
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCMa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (0.0)
olv5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCMa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (0.0)
olv5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCMa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (0.0)
olv5* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCMa 0.01 0.01 -

$n^* = 1.0$

$n^* = 1.0$

$n^* = 1.0$

$n^* = 1.0$

$n^* = 1.0$

NE520-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 210/360 = 0.583 (right)

BAM-test chart NE52; Colorimetric systems ORS18 & SRS18

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

input: $olv^*setrgbcolor$

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

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

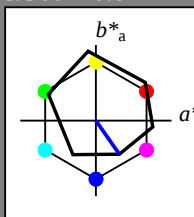
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 93$

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 -0.98 47.5
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* 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 76.06 -0.61 34.4
LAB*LAB 76.06 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 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 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 56.71 -0.24 21.4
LAB*LAB 56.71 0.0 0.0
LAB*LAB 50.01

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 16.3
LAB*LAB 37.36 0.0 0.0
LAB*LAB 25.01

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

relative Inform. Technology (IT)
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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LAB 18.02 0.0 0.0
LAB*LAB 0.01

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

$n^* = 1.0$

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

$g^*_{C,rel} = 155$

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 60.56 15.23 -19.79
LAB*LAB 60.56 15.23 -19.79
LAB*LAB 77.77 -11.09

relative CIELAB lab*
lab*lab 0.5 0.287 -0.408
lab*tch 0.75 0.5 0.847
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*trj 0.5 0.225 -0.446
lab*tce 0.75 0.5 0.824
lab*nce 0.0 0.5 0.824

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (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 41.22 15.55 -22.2
LAB*LAB 41.22 15.55 -22.2
LAB*LAB 50.01

relative CIELAB lab*
lab*lab 0.25 0.287 -0.409
lab*tch 0.5 0.5 0.847
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*trj 0.25 0.225 -0.446
lab*tce 0.5 0.5 0.824
lab*nce 0.0 0.5 0.824

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 21.87 15.55 -22.19
LAB*LAB 21.87 15.55 -22.19
LAB*LAB 25.01

relative CIELAB lab*
lab*lab 0.0 0.287 -0.408
lab*tch 0.25 0.5 0.847
lab*nch 0.0 0.5 0.847
relative Natural Colour (NC)
lab*trj 0.0 0.225 -0.446
lab*tce 0.25 0.5 0.824
lab*nce 0.0 0.5 0.824

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0
LAB*LAB 0.01

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

$n^* = 1.0$

Output: Colorimetric Standard Reflective System SRS18

for hue $h^* = lab^*h = 270/360 = 0.75$

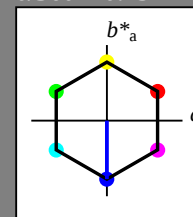
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 57 77 270

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 100$

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*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)
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 76.07 0.0 0.0
LAB*LAB 76.07 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 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.0
lab*tce 0.75 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 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 56.72 0.0 0.0
LAB*LAB 56.72 0.0 0.0
LAB*LAB 50.01

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

relative Inform. Technology (IT)
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 37.37 0.0 0.0
LAB*LAB 37.37 0.0 0.0
LAB*LAB 25.01

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

relative Inform. Technology (IT)
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 (0.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0
LAB*LAB 0.01

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

$n^* = 1.0$

SRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	56.71	67.03	38.7	77.4	30
Y _{Ma}	56.71	0.0	77.4	77.4	90
L _{Ma}	56.71	-67.02	38.7	77.4	150
C _{Ma}	56.71	-67.02	-38.69	77.4	210
V _{Ma}	56.71	0.0	-77.39	77.4	270
M _{Ma}	56.71	67.03	-38.69	77.4	330
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

%Regularity

$g^*_{H,rel} = 100$

$g^*_{C,rel} = 100$

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 76.06 0.0 -38.68
LAB*LAB 76.06 0.0 -38.68
LAB*LAB 75.00 0.01

relative CIELAB lab*
lab*lab 0.5 0.0 -0.499
lab*tch 0.75 0.5 0.75
lab*nch 0.0 0.5 0.75
relative Natural Colour (NC)
lab*trj 0.5 -0.011 -0.499
lab*tce 0.75 0.5 0.746
lab*nce 0.0 0.5 0.988

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (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 56.71 0.0 -38.69
LAB*LAB 56.71 0.0 -38.69
LAB*LAB 50.01

relative CIELAB lab*
lab*lab 0.25 0.0 -0.499
lab*tch 0.5 0.5 0.75
lab*nch 0.0 0.5 0.75
relative Natural Colour (NC)
lab*trj 0.25 -0.011 -0.499
lab*tce 0.5 0.5 0.988
lab*nce 0.0 0.5 0.988

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 37.36 0.0 -38.68
LAB*LAB 37.36 0.0 -38.68
LAB*LAB 25.01

relative CIELAB lab*
lab*lab 0.0 0.375 0.0 -0.499
lab*tch 0.375 0.25 0.75
lab*nch 0.0 0.25 0.75
relative Natural Colour (NC)
lab*trj 0.375 -0.005 -0.249
lab*tce 0.375 0.25 0.746
lab*nce 0.0 0.25 0.988

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0
LAB*LAB 0.01

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

$n^* = 0.50$

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 66.38 0.0 -58.03
LAB*LAB 66.38 0.0 -58.03
LAB*LAB 62.5 0.01

relative CIELAB lab*
lab*lab 0.0 0.625 0.0 -0.749
lab*tch 0.625 0.75 0.75
lab*nch 0.0 0.75 0.75
relative Natural Colour (NC)
lab*trj 0.0 0.625 -0.749
lab*tce 0.625 0.75 0.746
lab*nce 0.0 0.75 0.988

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 56.71 0.0 -77.37
LAB*LAB 56.71 0.0 -77.37
LAB*LAB 50.01

relative CIELAB lab*
lab*lab 0.0 0.625 0.0 -0.999
lab*tch 0.625 0.75 0.75
lab*nch 0.0 0.75 0.75
relative Natural Colour (NC)
lab*trj 0.0 0.625 -0.999
lab*tce 0.625 0.75 0.746
lab*nce 0.0 0.75 0.988

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 37.36 0.0 -38.68
LAB*LAB 37.36 0.0 -38.68
LAB*LAB 25.01

relative CIELAB lab*
lab*lab 0.0 0.375 0.0 -0.749
lab*tch 0.375 0.75 0.75
lab*nch 0.0 0.75 0.75
relative Natural Colour (NC)
lab*trj 0.0 0.375 -0.749
lab*tce 0.375 0.75 0.746
lab*nce 0.0 0.75 0.988

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (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 18.03 0.0 0.0
LAB*LAB 18.03 0.0 0.0
LAB*LAB 0.01

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

$n^* = 0.00$

BAM-test chart NE52; Colorimetric systems ORS18 & SRS18

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

5 step scales for constant CIELAB hue 270/360 = 0.75 (right)

input: `olv* setrgbcolor`

output: *no change compared to input*

NE520-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

Input: Colorimetric Offset Reflective System ORS18

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

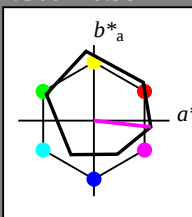
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

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	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

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)

standard and adapted CIELAB

LAB*LAB	95.41	-0.98	47.5
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	83.59	18.05	1.87
LAB*LAB	83.59	18.01	-2.08
LAB*LAB	83.59	18.05	353.66

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)
olv4*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	71.77	37.63	-1.01
LAB*LAB	71.77	37.63	-4.17
LAB*LAB	71.77	37.63	353.66

relative Inform. Technology (IT)

olv3*	1.0	0.25	1.0	(1.0)
olv3*	0.0	0.25	0.0	(0.0)
olv4*	1.0	0.25	1.0	(1.0)
olv4*	0.0	0.25	0.0	(0.0)
olv4*	0.0	0.25	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
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relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

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

standard and adapted CIELAB

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relative Inform. Technology (IT)

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

standard and adapted CIELAB

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relative Inform. Technology (IT)

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

standard and adapted CIELAB

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LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	59.95	56.15	-3.9
LAB*LAB	59.95	56.15	-6.26
LAB*LAB	59.95	56.15	353.66

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 25/360 = 0.069$

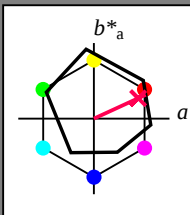
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 75 25

olv*Ma: 1.0 0.0 0.32

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

% Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	0.75	0.831	(1.0)
olv3*	0.0	0.25	0.169	(0.0)
olv4*	1.0	0.75	0.831	(1.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
olv4*	0.0	0.25	0.169	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75
LAB*LAB	56.71	-0.41	0.98	0.75

LAB hue 25/360 = 0.0694
test chart NE5
coordinate d

Input: Colorimetric Offset Reflective System ORS18

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

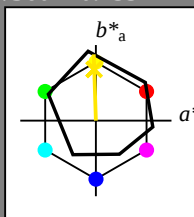
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	95.41	-0.98	47.5
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*lab	0.0	1.0	0.0
lab*lab	0.0	0.0	1.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative 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
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0
lab*lab	0.0	0.0	0.0

relative Inform. Technology (IT)

olv3*	0.75	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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.06	-0.61	3.44
LAB*LAB	76.06	0.0	0.0
LAB*LAB	76.06	0.0	0.0
LAB*LAB	76.06	0.0	0.0
LAB*LAB	76.06	0.0	0.0
LAB*LAB	76.06	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)
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)
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*	0.5	0.5	0.5	(1.0)
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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.71	-0.24	2.14
LAB*LAB	56.71	0.0	0.0
LAB*LAB	56.71	0.0	0.0
LAB*LAB	56.71	0.0	0.0
LAB*LAB	56.71	0.0	0.0
LAB*LAB	56.71	0.0	0.0

relative CIELAB lab*

lab*lab	0.5	0.5	0.5	(1.0)
lab*lab	0.5	0.5	0.5	(0.0)
lab*lab	0.5	0.5	0.5	(1.0)
lab*lab	0.5	0.5	0.5	(0.0)
lab*lab	0.5	0.5	0.5	(1.0)
lab*lab	0.5	0.5	0.5	(0.0)

relative Natural Colour (NC)

lab*lab	0.5	0.5	0.5	(1.0)
lab*lab	0.5	0.5	0.5	(0.0)
lab*lab	0.5	0.5	0.5	(1.0)
lab*lab	0.5	0.5	0.5	(0.0)
lab*lab	0.5	0.5	0.5	(1.0)
lab*lab	0.5	0.5	0.5	(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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	37.36	-0.38	0.83
LAB*LAB	37.36	0.0	0.0
LAB*LAB	37.36	0.0	0.0
LAB*LAB	37.36	0.0	0.0
LAB*LAB	37.36	0.0	0.0
LAB*LAB	37.36	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)
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)
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)
olv4*	0.0	0.0	0.0	(0.0)
olv4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.47
LAB*LAB	18.02	0.0	0.0
LAB*LAB	18.02	0.0	0.0
LAB*LAB	18.02	0.0	0.0
LAB*LAB	18.02	0.0	0.0
LAB*LAB	18.02	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)
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)
lab*lab	0.0	0.0	0.0	(1.0)
lab*lab	1.0	1.0	1.0	(0.0)

$n^* = 1.0$

ORS18; adapted (a) CIELAB data

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

O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RC _{IE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
BC _{IE}	30.57	1.15	-46.84	46.86	271

% Regularity

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

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

relative Inform. Technology (IT)

olv3*	1.0	0.951	0.5	(1.0)
olv3*	0.0	0.049	0.5	(0.0)
olv4*	1.0	0.951	0.5	(1.0)
olv4*	0.0	0.049	0.5	(0.0)
olv4*	0.0	0.049	0.5	(0.0)
olv4*	0.0	0.049	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	90.8	-2.3	48.29
LAB*LAB	90.8	-1.4	43.84
LAB*LAB	90.8	-1.4	43.84
LAB*LAB	90.8	-1.4	43.84
LAB*LAB	90.8	-1.4	43.84
LAB*LAB	90.8	-1.4	43.84

relative CIELAB lab*

lab*lab	0.94	-0.015	0.5
lab*lab	0.75	0.5	0.255
lab*lab	0.0	0.5	0.255
lab*lab	0.0	0.5	0.255
lab*lab	0.94	0.0	0.5
lab*lab	0.75	0.5	0.255

relative Natural Colour (NC)

lab*lab	0.94	0.0	0.5
lab*lab	0.75	0.5	0.255
lab*lab	0.0	0.5	0.255
lab*lab	0.0	0.5	0.255
lab*lab	0.94	0.0	0.5
lab*lab	0.75	0.5	0.255

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	0.951	0.5	(1.0)
olv4*	0.0	0.049	0.5	(0.0)
olv4*	0.0	0.049	0.5	(0.0)
olv4*	0.0	0.049	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	71.45	-1.92	46.98
LAB*LAB	71.45	-1.4	43.84
LAB*LAB	71.45	-1.4	43.84
LAB*LAB	71.45	-1.4	43.84
LAB*LAB	71.45	-1.4	43.84
LAB*LAB	71.45	-1.4	43.84

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)
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)
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*	0.5	0.451	0.0	(1.0)
olv3*	0.5	0.549	0.0	(0.0)
olv4*	1.0	0.951	0.5	(1.0)
olv4*	0.0	0.049	0.5	(0.0)
olv4*	0.0	0.049	0.5	(0.0)
olv4*	0.0	0.049	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	52.1	-1.39	43.84
LAB*LAB	52.1	-1.39	43.84
LAB*LAB	52.1	-1.39	43.84
LAB*LAB	52.1	-1.39	43.84
LAB*LAB	52.1	-1.39	43.84
LAB*LAB	52.1	-1.39	43.84

relative CIELAB lab*

lab*lab	0.661	-0.023	0.75
lab*lab	0.375	0.75	0.255
lab*lab	0.0	0.75	0.255
lab*lab	0.0	0.75	0.255
lab*lab	0.661	0.0	0.75
lab*lab	0.375	0.75	0.255

relative Natural Colour (NC)

lab*lab	0.661	0.0	0.75
lab*lab	0.375	0.75	0.255
lab*lab	0.0	0.75	0.255
lab*lab	0.0	0.75	0.255
lab*lab	0.661	0.0	0.75
lab*lab	0.375	0.75	0.255

relative Inform. Technology (IT)

olv3*	0.25	0.549	0.0	(1.0)
olv3*	0.75	0.451	0.0	(0.0)
olv4*	1.0	0.951	0.5	(1.0)
olv4*	0.0	0.049	0.5	(0.0)
olv4*	0.0	0.049	0.5	(0.0)
olv4*	0.0	0.049	0.5	(0.0)

standard and adapted CIELAB

LAB*LAB	35.06	-0.52	22.69
LAB*LAB	35.06	-0.52	22.69
LAB*LAB	35.06	-0.52	22.69
LAB*LAB	35.06	-0.52	22.69
LAB*LAB	35.06	-0.52	22.69
LAB*LAB	35.06	-0.52	22.69

relative CIELAB lab*

lab*lab	0.44	-0.015	0.5
lab*lab	0.25	0.5	0.255
lab*lab	0.0	0.5	0.255
lab*lab	0.0	0.5	0.255
lab*lab	0.44	0.0	0.5
lab*lab	0.25	0.5	0.255

relative Natural Colour (NC)

lab*lab	0.44	0.0	0.5
lab*lab	0.25	0.5	0.255
lab*lab	0.0	0.5	0.255
lab*lab	0.0	0.5	0.255
lab*lab	0.44	0.0	0.5
lab*lab	0.25	0.5	0.255

$n^* = 0.50$

$n^* = 0.00$

$n^* = 0.25$

blackness n^*

$n^* = 1.0$

chromaticness c^*

$n^* = 0.00$

$n^* = 0.25$

$n^* = 1.0$

Output: Colorimetric Standard Reflective System SRS18

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

lab^*tch and lab^*nch

D65: hue J

LCH*Ma:

Input: Colorimetric Offset Reflective System ORS18

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

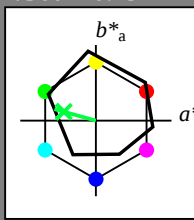
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Regularity

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

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	1.0	1.0
olv4*	0.75	0.75	0.75	1.0	1.0	1.0
olv5*	0.75	0.75	0.75	1.0	1.0	1.0
olv6*	0.75	0.75	0.75	1.0	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	1.0	1.0
olv4*	0.75	0.75	0.75	1.0	1.0	1.0
olv5*	0.75	0.75	0.75	1.0	1.0	1.0
olv6*	0.75	0.75	0.75	1.0	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	1.0	1.0
olv4*	0.75	0.75	0.75	1.0	1.0	1.0
olv5*	0.75	0.75	0.75	1.0	1.0	1.0
olv6*	0.75	0.75	0.75	1.0	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	1.0	1.0
olv4*	0.75	0.75	0.75	1.0	1.0	1.0
olv5*	0.75	0.75	0.75	1.0	1.0	1.0
olv6*	0.75	0.75	0.75	1.0	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	1.0	1.0
olv4*	0.75	0.75	0.75	1.0	1.0	1.0
olv5*	0.75	0.75	0.75	1.0	1.0	1.0
olv6*	0.75	0.75	0.75	1.0	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	1.0	1.0
olv4*	0.75	0.75	0.75	1.0	1.0	1.0
olv5*	0.75	0.75	0.75	1.0	1.0	1.0
olv6*	0.75	0.75	0.75	1.0	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	1.0	1.0
olv4*	0.75	0.75	0.75	1.0	1.0	1.0
olv5*	0.75	0.75	0.75	1.0	1.0	1.0
olv6*	0.75	0.75	0.75	1.0	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	1.0	1.0
olv4*	0.75	0.75	0.75	1.0	1.0	1.0
olv5*	0.75	0.75	0.75	1.0	1.0	1.0
olv6*	0.75	0.75	0.75	1.0	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0	1.0

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	1.0	1.0	1.0
olv4*	0.75	0.75	0.75	1.0	1.0	1.0
olv5*	0.75	0.75	0.75	1.0	1.0	1.0
olv6*	0.75	0.75	0.75	1.0	1.0	1.0
olv7*	0.75	0.75	0.75	1.0	1.0	1.0
olv8*	0.75	0.75	0.75	1.0	1.0	1.0
olv9*	0.75	0.75	0.75	1.0	1.0	1.0
olv10*	0.75	0.75	0.75	1.0	1.0	1.0
olv11*	0.75	0.75	0.75	1.0	1.0	1.0
olv12*	0.75	0.75	0.75	1.0	1.0	1.0
olv13*	0.75	0.75	0.75	1.0	1.0	1.0
olv14*	0.75	0.75	0.75	1.0	1.0	1.0
olv15*	0.75	0.75	0.75	1.0	1.0	1.0
olv16*	0.75	0.75	0.75	1.0	1.0	1.0
olv17*	0.75	0.75	0.75	1.0	1.0	1.0
olv18*	0.75	0.75	0.75	1.0	1.0	1.0
olv19*	0.75	0.75	0.75	1.0	1.0	1.0
olv20*	0.75	0.75	0.75	1.0	1.0	1.0

relative Inform. Technology (IT)					
olv3*	0.0	1.0	0.222	(1.0)	
olv4*	0.0	1.0	0.778	(0.0)	
olv5*	0.0	1.0	0.222	1.0	
olv6*	0.0	1.0	0.778	0.0	
standard and adapted CIELAB					
LAB*LAB	56.71	-67.01	21.49		
LAB*LABa	56.71	-67.01	21.49		
LAB*TCHa	50.0	70.38	162.22		
relative CIELAB lab*					
lab*lab	0.5	-0.951	0.305		
lab*tcch	0.5	1.0	0.451		
lab*nch	0.0	1.0	0.451		
relative Natural Colour (NC)					
lab*trj	0.5	-0.999	0.0		
lab*trc	0.5	1.0	0.999		
lab*trg	0.0	1.0	0.999		

