

Input: Colorimetric Offset Reflective System ORS18

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

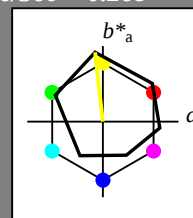
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



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)
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*LABb 99.99 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 1.0 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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 103/360 = 0.287$

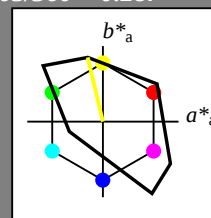
lab^*tch and lab^*nch

D65: hue Y

LCH*Ma: 93 87 103

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



TLS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

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 0.0

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

relative Inform. Technology (IT)
olv3* 1.0 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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.98 47.5
LAB*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.5 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 0.5 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

relative Inform. Technology (IT)
olv3* 0.5 0.5 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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

relative Inform. Technology (IT)
olv3* 0.5 0.5 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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

relative Inform. Technology (IT)
olv3* 0.5 0.5 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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

relative Inform. Technology (IT)
olv3* 0.5 0.5 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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

relative Inform. Technology (IT)
olv3* 0.5 0.5 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*LABb 94.14 -2.56 22.93
LAB*LABc 97.5 25.07 96.38

NE510-7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

5 step scales for constant CIELAB hue 103/360 = 0.287 (right)

BAM-test chart NE51; Colorimetric systems ORS18 & TLS18

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

input: $olv^* setrgbcolor$

output: $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Offset Reflective System ORS18

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

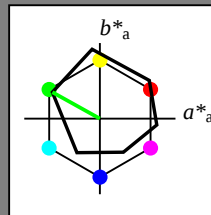
$lab \cdot tch$ and $lab \cdot nch$

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	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

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

$g^*_{C,rel} = 179$

relative Inform. Technology (IT)

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

relative CIELAB lab*			
lab*lab	0.856	-0.217	0.121
lab*tch	0.875	0.25	0.419
lab*nch	0.0	0.25	0.419
relative Natural Colour (NC)			
lab*lrj	0.856	-0.238	0.072
lab*tce	0.875	0.25	0.453
lab*nce	0.0	0.25	j81g

Input: Colorimetric Offset Reflective System ORS18

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

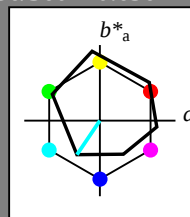
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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*	0.0 1.0 1.0 (1.0)
olv4*	0.0 0.0 0.0 (0.0)
olv5*	0.0 1.0 1.0 (1.0)
olv6*	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 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)
olv6*	0.75 1.0 1.0 (1.0)
standard and adapted CIELAB	
LAB*LAB	86.21 -8.39 -7.1
LAB*LAB	86.21 -7.57 -11.24
LAB*LAB	87.5 13.57 236.02

relative Inform. Technology (IT)	
olv3*	0.5 1.0 1.0 (1.0)
olv4*	0.5 1.0 1.0 (1.0)
olv5*	0.5 1.0 1.0 (1.0)
olv6*	0.5 1.0 1.0 (1.0)
standard and adapted CIELAB	
LAB*LAB	77.01 -15.8 -19.98
LAB*LAB	77.01 -15.16 -22.5
LAB*LAB	75.0 27.14 236.02

relative Inform. Technology (IT)	
olv3*	0.25 1.0 1.0 (1.0)
olv4*	0.25 1.0 1.0 (1.0)
olv5*	0.25 1.0 1.0 (1.0)
olv6*	0.25 1.0 1.0 (1.0)
standard and adapted CIELAB	
LAB*LAB	67.81 -23.21 -30.86
LAB*LAB	67.81 -23.75 -33.75
LAB*LAB	62.5 40.72 236.02

relative Inform. Technology (IT)	
olv3*	0.0 1.0 1.0 (1.0)
olv4*	0.0 1.0 1.0 (1.0)
olv5*	0.0 1.0 1.0 (1.0)
olv6*	0.0 1.0 1.0 (1.0)
standard and adapted CIELAB	
LAB*LAB	58.62 -30.33 -45.01
LAB*LAB	58.62 -30.33 -45.01
LAB*LAB	50.0 54.29 236.02

relative Inform. Technology (IT)	
olv3*	0.0 0.5 0.5 (0.0)
olv4*	0.0 0.5 0.5 (0.0)
olv5*	0.0 0.5 0.5 (0.0)
olv6*	0.0 0.5 0.5 (0.0)
standard and adapted CIELAB	
LAB*LAB	58.62 -30.33 -45.01
LAB*LAB	58.62 -30.33 -45.01
LAB*LAB	50.0 54.29 236.02

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)
olv6*	0.75 0.75 0.75 (1.0)
standard and adapted CIELAB	
LAB*LAB	76.06 -0.61 3.44
LAB*LAB	76.06 0.0 0.0
LAB*LAB	75.0 0.01 -

relative Inform. Technology (IT)	
olv3*	0.5 0.75 0.75 (1.0)
olv4*	0.5 0.75 0.75 (1.0)
olv5*	0.5 0.75 0.75 (1.0)
olv6*	0.5 0.75 0.75 (1.0)
standard and adapted CIELAB	
LAB*LAB	66.86 -8.02 -8.42
LAB*LAB	66.86 -7.58 -11.25
LAB*LAB	62.5 13.57 236.02

relative Inform. Technology (IT)	
olv3*	0.25 0.75 0.75 (1.0)
olv4*	0.25 0.75 0.75 (1.0)
olv5*	0.25 0.75 0.75 (1.0)
olv6*	0.25 0.75 0.75 (1.0)
standard and adapted CIELAB	
LAB*LAB	57.67 -15.43 -20.29
LAB*LAB	57.67 -15.16 -22.5
LAB*LAB	50.0 27.14 236.02

relative Inform. Technology (IT)	
olv3*	0.0 0.75 0.75 (1.0)
olv4*	0.0 0.75 0.75 (1.0)
olv5*	0.0 0.75 0.75 (1.0)
olv6*	0.0 0.75 0.75 (1.0)
standard and adapted CIELAB	
LAB*LAB	58.62 -30.33 -45.01
LAB*LAB	58.62 -30.33 -45.01
LAB*LAB	50.0 54.29 236.02

relative Inform. Technology (IT)	
olv3*	0.0 0.25 0.25 (0.0)
olv4*	0.0 0.25 0.25 (0.0)
olv5*	0.0 0.25 0.25 (0.0)
olv6*	0.0 0.25 0.25 (0.0)
standard and adapted CIELAB	
LAB*LAB	58.62 -30.33 -45.01
LAB*LAB	58.62 -30.33 -45.01
LAB*LAB	50.0 54.29 236.02

relative Inform. Technology (IT)	
olv3*	0.0 0.25 0.25 (0.0)
olv4*	0.0 0.25 0.25 (0.0)
olv5*	0.0 0.25 0.25 (0.0)
olv6*	0.0 0.25 0.25 (0.0)
standard and adapted CIELAB	
LAB*LAB	58.62 -30.33 -45.01
LAB*LAB	58.62 -30.33 -45.01
LAB*LAB	50.0 54.29 236.02

relative Inform. Technology (IT)	
olv3*	0.25 0.25 0.25 (1.0)
olv4*	0.25 0.25 0.25 (1.0)
olv5*	0.25 0.25 0.25 (1.0)
olv6*	0.25 0.25 0.25 (1.0)
standard and adapted CIELAB	
LAB*LAB	37.36 -15.03 -0.63
LAB*LAB	37.36 0.0 0.0
LAB*LAB	25.0 0.01 -

relative Inform. Technology (IT)	
olv3*	0.381 -0.139 -0.206
olv4*	0.375 0.25 0.656
olv5*	0.375 0.25 0.656
olv6*	0.375 0.25 0.656
standard and adapted CIELAB	
LAB*LAB	38.12 -7.64 -9.72
LAB*LAB	38.12 -7.58 -11.25
LAB*LAB	37.5 13.57 236.02

relative Inform. Technology (IT)	
olv3*	0.0 0.5 0.5 (0.0)
olv4*	0.0 0.5 0.5 (0.0)
olv5*	0.0 0.5 0.5 (0.0)
olv6*	0.0 0.5 0.5 (0.0)
standard and adapted CIELAB	
LAB*LAB	38.12 -7.64 -9.72
LAB*LAB	38.12 -7.58 -11.25
LAB*LAB	37.5 13.57 236.02

relative Inform. Technology (IT)	
olv3*	0.0 0.25 0.25 (0.0)
olv4*	0.0 0.25 0.25 (0.0)
olv5*	0.0 0.25 0.25 (0.0)
olv6*	0.0 0.25 0.25 (0.0)
standard and adapted CIELAB	
LAB*LAB	38.12 -7.64 -9.72
LAB*LAB	38.12 -7.58 -11.25
LAB*LAB	37.5 13.57 236.02

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)
olv6*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	38.12 -7.64 -9.72
LAB*LAB	38.12 -7.58 -11.25
LAB*LAB	37.5 13.57 236.02

NE510-7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 196/360 = 0.546 (right)

BAM-test chart NE51; Colorimetric systems ORS18 & TLS18

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

input: $olv^* setrgbcolor$

output: $olv^* setrgbcolor / w^* setgray$

chromaticness c^*

chromaticness c^*

Input: Colorimetric Offset Reflective System ORS18

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

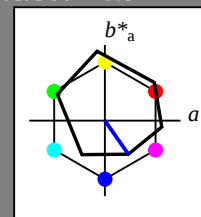
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 93$

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

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

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

Output: Colorimetric Television Luminous System TLS18

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

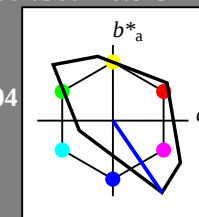
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 35 115 304

olv*Ma: 0.0 0.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 118$

TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

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

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

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

Input: Colorimetric Offset Reflective System ORS18

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

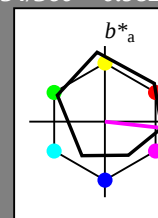
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% 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	
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	

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)
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	75.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.75	0.0	
lab*lab	0.0	0.0	0.75	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.75	0.0	
lab*lab	0.0	0.0	0.75	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.5	0.5	(0.0)
olv3*	0.0	0.0	0.0	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
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	50.01	0.0	0.0	

relative CIELAB lab*

lab*lab	0.5	0.0	0.0	
lab*lab	0.0	0.5	0.0	
lab*lab	0.0	0.0	0.5	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.5	0.0	0.0	
lab*lab	0.0	0.5	0.0	
lab*lab	0.0	0.0	0.5	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(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	37.36	0.3	0.63	
LAB*LAB	37.36	0.0	0.0	
LAB*LAB	25.00	0.01	0.0	

relative CIELAB lab*

lab*lab	0.25	0.0	0.0	
lab*lab	0.0	0.25	0.0	
lab*lab	0.0	0.0	0.25	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.25	0.0	0.0	
lab*lab	0.0	0.25	0.0	
lab*lab	0.0	0.0	0.25	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)

olv3*	0.0	0.0	0.0	(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	18.02	0.0	0.47	
LAB*LAB	18.02	0.0	0.0	
LAB*LAB	0.01	0.01	0.0	

relative CIELAB lab*

lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	
lab*lab	0.0	0.0	0.0	

NE510-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

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	0.5	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)
olv4*	0.0	0.5	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	71.77	37.1	-1.01	
LAB*LAB	71.77	37.63	-4.17	
LAB*LAB	75.0	37.86	353.66	

relative CIELAB lab*

lab*lab	0.695	0.497	-0.054	
lab*lab	0.75	0.5	0.982	
lab*lab	0.0	0.5	0.982	
lab*lab	0.0	0.5	0.0	
relative Natural Colour (NC)				
lab*lab	0.695	0.454	-0.208	
lab*lab	0.75	0.5	0.982	
lab*lab	0.0	0.5	0.982	
lab*lab	0.0	0.5	0.0	

relative Inform. Technology (IT)

olv3*	0.75	0.25	0.75	(1.0)
olv3*	0.0	0.25	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)
olv4*	0.0	0.5	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	52.42	37.64	-2.32	
LAB*LAB	52.42	37.64	-4.17	
LAB*LAB	50.0	37.86	353.66	

relative CIELAB lab*

lab*lab	0.542	0.745	-0.082	
lab*lab	0.625	0.75	0.982	
lab*lab	0.0	0.75	0.982	
lab*lab	0.0	0.75	0.0	
relative Natural Colour (NC)				
lab*lab	0.542	0.682	-0.312	
lab*lab	0.625	0.75	0.982	
lab*lab	0.0	0.75	0.982	
lab*lab	0.0	0.75	0.0	

relative Inform. Technology (IT)

olv3*	0.5	0.0	0.5	(1.0)
olv3*	0.0	0.0	0.5	(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)
olv4*	0.0	0.5	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	33.07	37.84	-0.32	
LAB*LAB	33.07	37.84	-4.17	
LAB*LAB	25.01	37.86	353.66	

relative CIELAB lab*

lab*lab	0.347	0.248	-0.027	
lab*lab	0.375	0.25	0.982	
lab*lab	0.0	0.25	0.982	
lab*lab	0.0	0.25	0.0	
relative Natural Colour (NC)				
lab*lab	0.347	0.227	-0.103	
lab*lab	0.375	0.25	0.982	
lab*lab	0.0	0.25	0.982	
lab*lab	0.0	0.25	0.0	

relative Inform. Technology (IT)

olv3*	0.25	0.0	0.25	(1.0)
olv3*	0.0	0.0	0.25	(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)
olv4*	0.0	0.5	0.0	(0.0)
standard and adapted CIELAB				
LAB*LAB	25.54	19.17	2.04	
LAB*LAB	25.54	18.81	-2.08	
LAB*LAB	12.5	18.93	353.66	

relative CIELAB lab*

lab*lab	0.097	0.248	-0.027	
lab*lab	0.125	0.25	0.982	
lab*lab	0.0	0.25	0.982	
lab*lab	0.0	0.25	0.0	
relative Natural Colour (NC)				
lab*lab	0.097	0.227	-0.103	
lab*lab	0.125	0.25	0.982	
lab*lab	0.0	0.25	0.982	
lab*lab	0.0	0.25	0.0	

blackness $n^* = 0.50$

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 328/360 = 0.911$

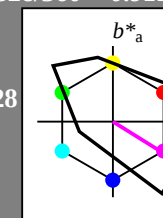
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 59 105 328

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 118$

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	
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	

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)
olv4*	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	0.0	

relative CIELAB lab*

lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.75	0.0	
lab*lab	0.0	0.0	0.75	
lab*lab	0.0	0.0	0.0	
relative Natural Colour (NC)				
lab*lab	0.75	0.0	0.0	
lab*lab	0.0	0.75	0.0	
lab*lab	0.0	0.0	0.75	
lab*lab	0.0	0.0	0.0	

relative Inform. Technology (IT)				
olvi3*	0.5	0.5	0.5	(1.0)
olvi3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
olvi4*	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*TCHa	50.0	0.01	-	
relative CIELAB Lab*				

Input: Colorimetric Offset Reflective System ORS18

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

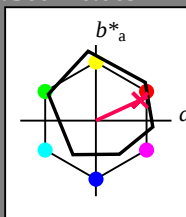
lab^*tch and lab^*nch

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)
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 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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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

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

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

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 25/360 = 0.071$

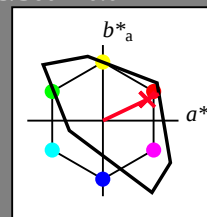
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 54 82 25

olv*Ma: 1.0 0.0 0.14

triangle lightness t^*



% Gamut

$u^*_{rel} = 118$

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	0.0	0.0	
LAB*LAB	95.41	0.0	0.0	
LAB*LAB	99.99	0.01	0.0	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

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)
standard and adapted CIELAB				
LAB*LAB	83.55	16.38	11.84	
LAB*LAB	83.55	17.14	7.88	
LAB*LAB	87.5	18.86	24.71	

TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	52.76	71.63	49.88	87.29	35
Y _{Ma}	92.74	-20.02	84.97	87.3	103
L _{Ma}	84.0	-78.98	73.94	108.2	137
C _{Ma}	87.14	-44.41	-13.11	46.32	196
V _{Ma}	35.47	64.92	-95.06	115.12	304
M _{Ma}	59.01	89.33	-55.67	105.26	328
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

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

NE510-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

BAM-test chart NE51; Colorimetric systems ORS18 & TLS18

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

input: $olv^* setrgbcolor$

output: $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Offset Reflective System ORS18

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

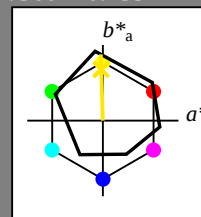
lab^*tch and lab^*nch

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)
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*LABb 99.99 0.01 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.97 -0.007 0.25
lab*tch 0.875 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.97 0.0 0.25
lab*tce 0.875 0.25 0.255
lab*nce 0.0 0.25 0.255

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 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.75 0.071 0.25 (1.0)
lab*tch 0.625 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.25
lab*tce 0.625 0.25 0.255
lab*nce 0.0 0.25 0.255

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 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 50.00 0.01 0.0

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

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 37.36 -0.63 0.83
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*tch 0.375 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.4 0.0 0.25
lab*tce 0.375 0.25 0.255
lab*nce 0.0 0.25 0.255

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 37.36 -0.63 0.83
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*tch 0.375 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.4 0.0 0.25
lab*tce 0.375 0.25 0.255
lab*nce 0.0 0.25 0.255

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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.22 -0.007 0.25
lab*tch 0.125 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.22 0.0 0.25
lab*tce 0.125 0.25 0.255
lab*nce 0.0 0.25 0.255

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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.22 -0.007 0.25
lab*tch 0.125 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.22 0.0 0.25
lab*tce 0.125 0.25 0.255
lab*nce 0.0 0.25 0.255

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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.22 -0.007 0.25
lab*tch 0.125 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.22 0.0 0.25
lab*tce 0.125 0.25 0.255
lab*nce 0.0 0.25 0.255

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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.22 -0.007 0.25
lab*tch 0.125 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.22 0.0 0.25
lab*tce 0.125 0.25 0.255
lab*nce 0.0 0.25 0.255

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 0.951 0.5 (1.0)
cmyn3* 0.0 0.049 0.5 (0.0)
olv4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 90.8 -2.3 48.29
LAB*LABa 90.8 -1.4 43.84
LAB*LABb 87.5 0.0 43.86

relative CIELAB lab*
lab*lab 0.94 -0.015 0.5
lab*tch 0.75 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*trj 0.94 0.0 0.5
lab*tce 0.75 0.5 0.255
lab*nce 0.0 0.5 0.255

relative Inform. Technology (IT)
olv3* 0.75 0.701 0.25 (1.0)
cmyn3* 0.25 0.299 0.75 (0.0)
olv4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 71.45 -1.92 46.98
LAB*LABa 71.45 -1.4 43.84
LAB*LABb 50.0 0.0 43.87

relative CIELAB lab*
lab*lab 0.911 -0.023 0.75
lab*tch 0.625 0.75 0.255
lab*nch 0.0 0.75 0.255
relative Natural Colour (NC)
lab*trj 0.911 0.0 0.75
lab*tce 0.625 0.75 0.255
lab*nce 0.0 0.75 0.255

relative Inform. Technology (IT)
olv3* 0.5 0.451 0.0 (1.0)
cmyn3* 0.5 0.549 1.0 (0.0)
olv4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 52.1 -1.39 43.86
LAB*LABa 52.1 -1.39 43.86
LAB*LABb 25.01 0.0 43.86

relative CIELAB lab*
lab*lab 0.661 -0.023 0.75
lab*tch 0.375 0.75 0.255
lab*nch 0.0 0.75 0.255
relative Natural Colour (NC)
lab*trj 0.661 0.0 0.75
lab*tce 0.375 0.75 0.255
lab*nce 0.0 0.75 0.255

relative Inform. Technology (IT)
olv3* 0.25 0.324 1.0 (0.0)
cmyn3* 0.25 0.676 0.0 (1.0)
olv4* 1.0 0.951 0.5 (1.0)
cmyn4* 0.0 0.049 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.51 65.79 91.84
LAB*LABa 37.51 65.79 91.84
LAB*LABb 25.01 0.0 43.86

relative CIELAB lab*
lab*lab 0.44 -0.015 0.5
lab*tch 0.25 0.5 0.255
lab*nch 0.0 0.5 0.255
relative Natural Colour (NC)
lab*trj 0.44 0.0 0.5
lab*tce 0.25 0.5 0.255
lab*nce 0.0 0.5 0.255

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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.22 -0.007 0.25
lab*tch 0.125 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.22 0.0 0.25
lab*tce 0.125 0.25 0.255
lab*nce 0.0 0.25 0.255

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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.22 -0.007 0.25
lab*tch 0.125 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.22 0.0 0.25
lab*tce 0.125 0.25 0.255
lab*nce 0.0 0.25 0.255

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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.22 -0.007 0.25
lab*tch 0.125 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.22 0.0 0.25
lab*tce 0.125 0.25 0.255
lab*nce 0.0 0.25 0.255

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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.22 -0.007 0.25
lab*tch 0.125 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.22 0.0 0.25
lab*tce 0.125 0.25 0.255
lab*nce 0.0 0.25 0.255

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 18.02 0.0 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.22 -0.007 0.25
lab*tch 0.125 0.25 0.255
lab*nch 0.0 0.25 0.255
relative Natural Colour (NC)
lab*trj 0.22 0.0 0.25
lab*tce 0.125 0.25 0.255
lab*nce 0.0 0.25 0.255

Output: Colorimetric Television Luminous System TLS18

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

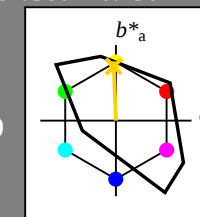
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 85 79 92

olv*Ma: 1.0 0.82 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 118$

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 0.0

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

relative Inform. Technology (IT)
olv3* 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*LABa 76.07 0.0 0.0
LAB*LABb 75.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.958 -0.009 0.25
lab*tch 0.875 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.958 0.0 0.25
lab*tce 0.875 0.25 0.256
lab*nce 0.0 0.25 0.256

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*LABa 56.72 0.0 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.718 -0.009 0.25
lab*tch 0.625 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.718 0.0 0.25
lab*tce 0.625 0.25 0.256
lab*nce 0.0 0.25 0.256

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*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.468 -0.009 0.25
lab*tch 0.375 0.25 0.256
lab*nch 0.0 0.25 0.256
relative Natural Colour (NC)
lab*trj 0.468 0.0 0.25
lab*tce 0.375 0.25 0.256
lab*nce 0.0 0.25 0.256

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 18.03 0.0 0.0
LAB*LABa 18.03 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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* 0.25 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*LABa 37.37 0.0 0.0
LAB*LABb 25.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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 (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*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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 (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*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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 (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*LABb 0.01 0.01 0.0

Input: Colorimetric Offset Reflective System ORS18

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

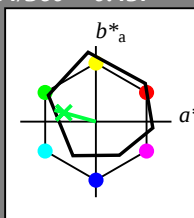
lab^*tch and lab^*nch

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^*_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)
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*TCHa 99.99 0.01

relative Inform. Technology (IT)
olv3* 0.75 1.0 0.812 (1.0)
cmyn3* 0.25 0.0 0.388 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.388 (0.0)
standard and adapted CIELAB
LAB*LAB 84.75 -14.48 7.85
LAB*LABa 84.75 -13.69 3.81
LAB*TCHa 97.5 14.22 164.46

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.623 (1.0)
cmyn3* 0.5 0.0 0.377 (0.0)
olv4* 0.5 1.0 0.623 (1.0)
cmyn4* 0.5 0.0 0.377 (0.0)
standard and adapted CIELAB
LAB*LAB 74.1 -27.98 10.94
LAB*LABa 74.1 -27.4 7.62
LAB*TCHa 75.0 28.45 164.46

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.435 (1.0)
cmyn3* 0.25 0.0 0.246 (0.0)
olv4* 0.25 1.0 0.435 (1.0)
cmyn4* 0.25 0.0 0.246 (0.0)
standard and adapted CIELAB
LAB*LAB 63.45 -41.11 11.44
LAB*LABa 63.45 -41.11 11.44
LAB*TCHa 62.5 42.68 164.45

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.246 (1.0)
cmyn3* 0.0 0.0 0.156 (0.0)
olv4* 0.0 1.0 0.246 (1.0)
cmyn4* 0.0 0.0 0.156 (0.0)
standard and adapted CIELAB
LAB*LAB 52.8 -54.81 15.26
LAB*LABa 52.8 -54.81 15.26
LAB*TCHa 50.0 56.91 164.45

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.188 (1.0)
cmyn3* 0.0 0.25 0.812 (0.0)
olv4* 0.0 0.75 0.188 (1.0)
cmyn4* 0.0 0.25 0.812 (0.0)
standard and adapted CIELAB
LAB*LAB 44.11 -41.11 12.74
LAB*LABa 44.11 -41.11 12.74
LAB*TCHa 37.51 42.69 164.45

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.133 (1.0)
cmyn3* 0.0 0.5 0.867 (0.0)
olv4* 0.0 0.5 0.133 (1.0)
cmyn4* 0.0 0.5 0.867 (0.0)
standard and adapted CIELAB
LAB*LAB 37.51 -42.69 16.45
LAB*LABa 37.51 -42.69 16.45
LAB*TCHa 30.0 59.99 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.075 (1.0)
cmyn3* 0.0 0.25 0.925 (0.0)
olv4* 0.0 0.25 0.075 (1.0)
cmyn4* 0.0 0.25 0.925 (0.0)
standard and adapted CIELAB
LAB*LAB 30.0 -59.99 0.0
LAB*LABa 30.0 -59.99 0.0
LAB*TCHa 25.0 0.01

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

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

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

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 (0.25)
cmyn4* 0.0 0.0 0.0 (0.75)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01

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 (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*TCHa 50.0 0.01

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 (0.75)
cmyn4* 0.25 0.25 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.188 (1.0)
cmyn3* 0.0 0.25 0.812 (0.0)
olv4* 0.0 0.75 0.188 (1.0)
cmyn4* 0.0 0.25 0.812 (0.0)
standard and adapted CIELAB
LAB*LAB 44.11 -41.11 12.74
LAB*LABa 44.11 -41.11 12.74
LAB*TCHa 37.51 42.69 164.45

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.133 (1.0)
cmyn3* 0.0 0.5 0.867 (0.0)
olv4* 0.0 0.5 0.133 (1.0)
cmyn4* 0.0 0.5 0.867 (0.0)
standard and adapted CIELAB
LAB*LAB 37.51 -42.69 16.45
LAB*LABa 37.51 -42.69 16.45
LAB*TCHa 30.0 59.99 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.075 (1.0)
cmyn3* 0.0 0.25 0.925 (0.0)
olv4* 0.0 0.25 0.075 (1.0)
cmyn4* 0.0 0.25 0.925 (0.0)
standard and adapted CIELAB
LAB*LAB 30.0 -59.99 0.0
LAB*LABa 30.0 -59.99 0.0
LAB*TCHa 25.0 0.01

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

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

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

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

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

NE510-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

BAM-test chart NE51; Colorimetric systems ORS18 & TLS18

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

input: $olv^* setrgbcolor$

output: $olv^* setrgbcolor / w^* setgray$

