

Input: Colorimetric Offset Reflective System ORS18

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

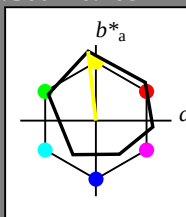
lab^*tch and lab^*nch

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*TCHa 99.99 0.01 -

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 94.14 -3.52 27.6
LAB*LABa 94.14 -2.56 22.93
LAB*TCHa 87.5 23.07 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 -5.12 45.87
LAB*TCHa 75.0 46.15 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 91.62 -8.61 73.31
LAB*LABa 91.62 -6.69 68.8
LAB*TCHa 62.5 69.23 96.38

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*TCHa 75.0 0.01 -

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 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 74.8 -3.15 26.3
LAB*LABa 74.8 -2.56 22.94
LAB*TCHa 62.5 23.08 96.38

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 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.54 -5.69 49.16
LAB*LABa 73.54 -5.12 45.88
LAB*TCHa 50.0 46.16 96.38

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 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.28 -8.23 72.0
LAB*LABa 72.28 -7.09 68.8
LAB*TCHa 51.0 69.23 96.38

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 55.45 -2.78 25.0
LAB*LABa 55.45 -2.56 22.94
LAB*TCHa 37.5 23.08 96.38

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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 54.19 -5.12 45.88
LAB*LABa 54.19 -5.12 45.88
LAB*TCHa 25.0 46.16 96.38

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 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 52.92 -7.09 68.8
LAB*LABa 52.92 -7.09 68.8
LAB*TCHa 25.0 46.16 96.38

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 -0.24 2.14
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 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 36.1 -2.56 22.93
LAB*LABa 36.1 -2.56 22.93
LAB*TCHa 12.5 23.07 96.38

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 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 34.96 -5.12 45.88
LAB*LABa 34.96 -5.12 45.88
LAB*TCHa 12.5 23.07 96.38

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 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 33.70 -7.09 68.8
LAB*LABa 33.70 -7.09 68.8
LAB*TCHa 12.5 23.07 96.38

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 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

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 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

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 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

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 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

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 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

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 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 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 18.02 18.02 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

Output: Colorimetric Television Luminous System TLS18

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

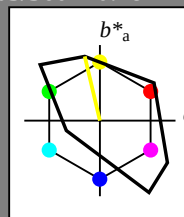
lab^*tch and lab^*nch

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*TCHa 99.99 0.01 -

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 94.74 -5.0 21.23
LAB*LABa 94.74 -5.0 21.23
LAB*TCHa 87.5 21.82 103.26

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 -5.12 45.87
LAB*TCHa 75.0 46.15 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 91.62 -8.61 73.31
LAB*LABa 91.62 -6.69 68.8
LAB*TCHa 62.5 69.23 96.38

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*TCHa 75.0 0.01 -

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

Input: Colorimetric Offset Reflective System ORS18

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

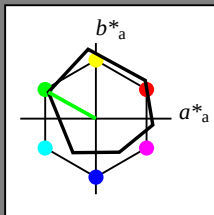
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0

triangle lightness t^*



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)
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 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*TCHa 75.0 0.01 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*trj 0.856 -0.238 0.072
lab*tce 0.875 0.25 0.453
lab*nce 0.0 0.25 0.419

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*TCHa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.616 -0.217 0.122
lab*tch 0.625 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.616 -0.238 0.072
lab*tce 0.625 0.25 0.453
lab*nce 0.0 0.25 0.419

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 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.356 -0.238 0.072
lab*tch 0.375 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.356 -0.238 0.072
lab*tce 0.375 0.25 0.453
lab*nce 0.0 0.25 0.419

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (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 18.02 18.02 0.47
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.106 -0.217 0.121
lab*tch 0.125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.106 -0.238 0.072
lab*tce 0.125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 137/360 = 0.38$

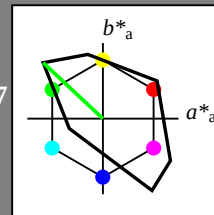
lab^*tch and lab^*nch

D65: hue L

LCH*Ma: 84 108 137

olv*Ma: 0.0 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*TCHa 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*TCHa 75.0 0.01 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*trj 0.856 -0.238 0.072
lab*tce 0.875 0.25 0.453
lab*nce 0.0 0.25 0.419

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 56.70 0.0 0.0
LAB*LABa 56.70 0.0 0.0
LAB*TCHa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.616 -0.217 0.121
lab*tch 0.625 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.616 -0.238 0.072
lab*tce 0.625 0.25 0.453
lab*nce 0.0 0.25 0.419

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 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.356 -0.238 0.072
lab*tch 0.375 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.356 -0.238 0.072
lab*tce 0.375 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.106 -0.217 0.121
lab*tch 0.125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.106 -0.238 0.072
lab*tce 0.125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

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

relative CIELAB lab*
lab*lab 0.0106 -0.217 0.121
lab*tch 0.0125 0.25 0.419
lab*nch 0.0 0.25 0.419
relative Natural Colour (NC)
lab*trj 0.0106 -0.238 0.072
lab*tce 0.0125 0.25 0.453
lab*nce 0.0 0.25 0.419

NE510-7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 137/360 = 0.38 (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: `no change compared to input`

Input: Colorimetric Offset Reflective System ORS18

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

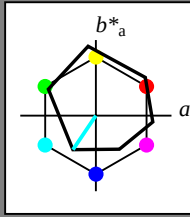
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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*tr 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
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 0.75 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*tr 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 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 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 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 -0.08 0.63
LAB*LABa 37.36 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*tr 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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

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

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	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* 0.5 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 77.01 -15.8 -19.98
LAB*LABa 77.01 -15.8 -22.5
LAB*LABb 75.00 27.14 236.02

relative CIELAB lab*
lab*lab 0.762 -0.278 -0.414
lab*tch 0.762 0.0 0.5656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*tr 0.762 -0.247 -0.433
lab*tce 0.762 0.0 0.656
lab*nce 0.0 0.5 0.656

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 57.67 -15.43 -20.29
LAB*LABa 57.67 -15.16 -22.5
LAB*LABb 50.00 27.14 236.02

relative CIELAB lab*
lab*lab 0.642 -0.418 -0.621
lab*tch 0.642 0.0 0.5656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*tr 0.642 -0.371 -0.65
lab*tce 0.642 0.0 0.5656
lab*nce 0.0 0.5 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (0.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.41 -22.83 -32.17
LAB*LABa 48.41 -22.75 -33.75
LAB*LABb 37.51 40.72 236.02

relative CIELAB lab*
lab*lab 0.394 -0.418 -0.621
lab*tch 0.394 0.0 0.5656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*tr 0.394 -0.371 -0.65
lab*tce 0.394 0.0 0.5656
lab*nce 0.0 0.5 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (0.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 38.12 -15.03 -0.86
LAB*LABa 38.12 -15.16 -22.5
LAB*LABb 25.01 27.14 236.02

relative CIELAB lab*
lab*lab 0.262 -0.278 -0.414
lab*tch 0.262 0.0 0.5656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*tr 0.262 -0.247 -0.433
lab*tce 0.262 0.0 0.5656
lab*nce 0.0 0.5 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 0.75 0.75 (1.0)
olv4* 0.0 0.75 0.75 (0.0)
cmyn4* 0.0 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 28.17 -7.57 -11.24
LAB*LABa 28.17 -7.57 -11.24
LAB*LABb 12.5 13.57 236.02

relative CIELAB lab*
lab*lab 0.131 -0.139 -0.206
lab*tch 0.125 0.25 0.546
lab*nch 0.0 0.5 0.546
relative Natural Colour (NC)
lab*tr 0.125 -0.125 -0.216
lab*tce 0.125 0.25 0.546
lab*nce 0.0 0.5 0.546

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 196/360 = 0.546$

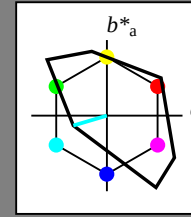
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 87 46 196

olv*Ma: 0.0 1.0 1.0

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*tr 1.0 0.0 0.0
lab*tce 1.0 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
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 0.75 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*tr 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*LABa 56.72 0.0 0.0
LAB*LABb 50.00 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 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 37.37 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*tr 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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 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 0.0 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*tr 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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 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 0.0 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*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

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* 0.5 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 91.27 -22.2 -6.55
LAB*LABa 91.27 -22.2 -6.55
LAB*LABb 75.00 23.15 196.46

relative CIELAB lab*
lab*lab 0.946 -0.478 -0.141
lab*tch 0.75 0.5 0.546
lab*nch 0.0 0.5 0.546
relative Natural Colour (NC)
lab*tr 0.946 -0.44 -0.235
lab*tce 0.75 0.5 0.578
lab*nce 0.0 0.5 0.578

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olv4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 71.93 -22.2 -6.55
LAB*LABa 71.93 -22.2 -6.55
LAB*LABb 50.00 23.16 196.46

relative CIELAB lab*
lab*lab 0.897 -0.479 -0.141
lab*tch 0.5 0.5 0.546
lab*nch 0.0 0.5 0.546
relative Natural Colour (NC)
lab*tr 0.897 -0.44 -0.235
lab*tce 0.5 0.5 0.578
lab*nce 0.0 0.5 0.578

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (0.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 52.58 -22.2 -6.55
LAB*LABa 52.58 -22.2 -6.55
LAB*LABb 25.01 23.15 196.46

relative CIELAB lab*
lab*lab 0.67 -0.718 -0.211
lab*tch 0.5 0.5 0.546
lab*nch 0.0 0.5 0.546
relative Natural Colour (NC)
lab*tr 0.67 -0.66 -0.353
lab*tce 0.5 0.5 0.578
lab*nce 0.0 0.5 0.578

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 0.75 0.75 (1.0)
olv4* 0.0 0.75 0.75 (0.0)
cmyn4* 0.0 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 28.17 -7.57 -11.24
LAB*LABa 28.17 -7.57 -11.24
LAB*LABb 12.5 13.57 196.46

relative CIELAB lab*
lab*lab 0.047 -0.139 -0.206
lab*tch 0.125 0.25 0.546
lab*nch 0.0 0.5 0.546
relative Natural Colour (NC)
lab*tr 0.047 -0.125 -0.216
lab*tce 0.125 0.25 0.578
lab*nce 0.0 0.5 0.578

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (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 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 0.0 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*tr 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

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: `no change compared to input`

Input: Colorimetric Offset Reflective System ORS18

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

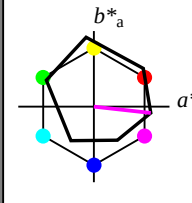
lab^*tch and lab^*nch

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)
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 0.75 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 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 0.0 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 -0.03 0.63
LAB*LABa 37.36 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 (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*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
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 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*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
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* 1.0 0.75 1.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olv4* 1.0 0.75 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 83.59 18.05 1.87
LAB*LABa 83.59 18.01 2.08
LAB*LABb 87.5 18.93 353.66

relative CIELAB lab*
lab*lab 0.847 0.248 -0.027
lab*tch 0.875 0.25 0.982
lab*nch 0.0 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.847 0.227 -0.103
lab*tce 0.875 0.25 0.982
lab*nce 0.0 0.25 0.982

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.75 (1.0)
cmyn3* 0.25 0.5 0.25 (0.0)
olv4* 1.0 0.75 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 64.24 18.43 0.56
LAB*LABa 64.24 18.82 2.08
LAB*LABb 62.5 18.94 353.66

relative CIELAB lab*
lab*lab 0.597 0.248 -0.027
lab*tch 0.625 0.25 0.982
lab*nch 0.25 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.597 0.227 -0.103
lab*tce 0.625 0.25 0.982
lab*nce 0.25 0.25 0.982

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.5 (1.0)
cmyn3* 0.5 0.75 0.5 (0.0)
olv4* 1.0 0.75 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 44.89 18.8 -0.74
LAB*LABa 44.89 18.82 -2.08
LAB*LABb 37.5 18.94 353.66

relative CIELAB lab*
lab*lab 0.347 0.248 -0.027
lab*tch 0.375 0.25 0.982
lab*nch 0.25 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.347 0.227 -0.103
lab*tce 0.375 0.25 0.982
lab*nce 0.5 0.25 0.982

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.75 1.0 0.75 (0.0)
olv4* 1.0 0.75 1.0 (0.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.24 19.17 0.04
LAB*LABa 25.24 18.81 -2.08
LAB*LABb 12.5 18.93 353.66

relative CIELAB lab*
lab*lab 0.097 0.248 -0.027
lab*tch 0.125 0.25 0.982
lab*nch 0.25 0.25 0.982
relative Natural Colour (NC)
lab*trj 0.097 0.227 -0.103
lab*tce 0.125 0.25 0.982
lab*nce 0.75 0.25 0.982

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*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
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 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*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
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* 1.0 0.5 1.0 (1.0)
cmyn3* 0.0 0.5 0.0 (0.0)
olv4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.77 37.63 -4.17
LAB*LABa 71.77 37.63 -4.17
LAB*LABb 75.0 37.86 353.66

relative CIELAB lab*
lab*lab 0.695 0.497 -0.054
lab*tch 0.75 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*trj 0.695 0.454 -0.208
lab*tce 0.75 0.5 0.982
lab*nce 0.0 0.5 0.982

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.75 0.25 (0.0)
olv4* 1.0 0.5 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 52.42 37.68 -2.32
LAB*LABa 52.42 37.64 -4.17
LAB*LABb 50.0 37.86 353.66

relative CIELAB lab*
lab*lab 0.542 0.497 -0.054
lab*tch 0.625 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*trj 0.542 0.454 -0.208
lab*tce 0.625 0.5 0.982
lab*nce 0.0 0.5 0.982

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.75 0.5 (0.0)
olv4* 1.0 0.25 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 40.6 56.52 -5.21
LAB*LABa 40.6 56.45 -6.26
LAB*LABb 35.0 56.8 353.66

relative CIELAB lab*
lab*lab 0.292 0.745 -0.082
lab*tch 0.375 0.75 0.982
lab*nch 0.0 0.75 0.982
relative Natural Colour (NC)
lab*trj 0.292 0.682 -0.312
lab*tce 0.375 0.75 0.982
lab*nce 0.5 0.75 0.982

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.75 1.0 0.75 (0.0)
olv4* 1.0 0.25 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 33.07 37.84 0.62
LAB*LABa 33.07 37.63 -4.17
LAB*LABb 25.01 37.86 353.66

relative CIELAB lab*
lab*lab 0.195 0.497 -0.054
lab*tch 0.25 0.5 0.982
lab*nch 0.0 0.5 0.982
relative Natural Colour (NC)
lab*trj 0.195 0.454 -0.208
lab*tce 0.25 0.5 0.982
lab*nce 0.5 0.5 0.982

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*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
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 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*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
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* 1.0 0.25 1.0 (1.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olv4* 1.0 0.25 1.0 (1.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 59.95 56.15 -3.9
LAB*LABa 59.95 56.15 -3.9
LAB*LABb 62.5 56.8 353.66

relative CIELAB lab*
lab*lab 0.542 0.745 -0.082
lab*tch 0.625 0.75 0.982
lab*nch 0.0 0.75 0.982
relative Natural Colour (NC)
lab*trj 0.542 0.682 -0.312
lab*tce 0.625 0.75 0.982
lab*nce 0.0 0.75 0.982

relative Inform. Technology (IT)
olv3* 0.75 0.0 0.75 (1.0)
cmyn3* 0.75 1.0 0.75 (0.0)
olv4* 1.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 48.13 75.26 -8.35
LAB*LABa 48.13 75.26 -8.35
LAB*LABb 50.0 75.73 353.66

relative CIELAB lab*
lab*lab 0.389 0.994 -0.109
lab*tch 0.5 1.0 0.982
lab*nch 0.0 1.0 0.982
relative Natural Colour (NC)
lab*trj 0.389 0.909 -0.416
lab*tce 0.5 1.0 0.982
lab*nce 0.0 1.0 0.982

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 0.5 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 47.61 22.33 -13.91
LAB*LABa 47.61 22.33 -13.91
LAB*LABb 47.61 22.33 -13.91

relative CIELAB lab*
lab*lab 0.5 0.5 0.0
lab*tch 0.5 0.5 0.0
lab*nch 0.0 0.5 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.0
lab*tce 0.5 0.5 0.0
lab*nce 0.0 0.5 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 (0.5)
cmyn4* 0.0 0.25 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 37.37 37.63 -4.17
LAB*LABa 37.37 37.63 -4.17
LAB*LABb 25.01 37.86 353.66

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*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
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 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*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
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* 1.0 0.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 0.0 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 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 0.25 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*LABb 75.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.5 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 0.5 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*LABb 50.00 0.01 0.0

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (0.5)
cmyn4* 0.0 0.25 0.0 (0.5)
standard and adapted CIELAB
LAB*LAB 37.37 37.63 -4.17
LAB*LABa 37.37 37.63 -4.17
LAB*LABb 25.01 37.86 353.66

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*LABb 0.01 0.01 0.0

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

Input: Colorimetric Offset Reflective System ORS18

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

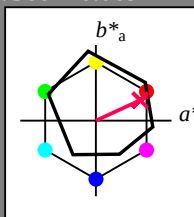
lab^*tch and lab^*nch

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)
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 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 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 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.847 0.227 0.104
lab*tch 0.875 0.25 0.069
lab*nch 0.0 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.847 0.25 0.0
lab*tce 0.875 0.25 0.0
lab*nce 0.0 0.25 0.069

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*TCHa 50.00 0.01 -

relative CIELAB lab*
lab*lab 0.597 0.227 0.104
lab*tch 0.625 0.25 0.069
lab*nch 0.25 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.597 0.25 0.0
lab*tce 0.625 0.25 0.0
lab*nce 0.25 0.25 0.069

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 0.0 0.0
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.347 0.227 0.104
lab*tch 0.375 0.25 0.069
lab*nch 0.75 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.347 0.25 0.0
lab*tce 0.375 0.25 0.0
lab*nce 0.75 0.25 0.069

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 16.43 0.0 0.0
LAB*LABa 16.43 0.0 0.0
LAB*TCHa 12.50 0.01 -

relative CIELAB lab*
lab*lab 0.194 0.227 0.104
lab*tch 0.225 0.25 0.069
lab*nch 0.75 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.194 0.25 0.0
lab*tce 0.225 0.25 0.0
lab*nce 0.75 0.25 0.069

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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.75 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.097 0.25 0.0
lab*tce 0.125 0.25 0.0
lab*nce 0.75 0.25 0.069

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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.75 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.097 0.25 0.0
lab*tce 0.125 0.25 0.0
lab*nce 0.75 0.25 0.069

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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.75 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.097 0.25 0.0
lab*tce 0.125 0.25 0.0
lab*nce 0.75 0.25 0.069

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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.75 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.097 0.25 0.0
lab*tce 0.125 0.25 0.0
lab*nce 0.75 0.25 0.069

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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.097 0.227 0.104
lab*tch 0.125 0.25 0.069
lab*nch 0.75 0.25 0.069
relative Natural Colour (NC)
lab*trj 0.097 0.25 0.0
lab*tce 0.125 0.25 0.0
lab*nce 0.75 0.25 0.069

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 0.661 (1.0)
cmyn3* 0.0 0.5 0.339 (0.0)
olv4* 1.0 0.5 0.661 (1.0)
cmyn4* 0.0 0.5 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 71.7 33.75 18.92
LAB*LABa 71.7 34.28 15.76
LAB*TCHa 75.0 37.73 24.7

relative CIELAB lab*
lab*lab 0.694 0.454 0.209
lab*tch 0.75 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*trj 0.694 0.5 0.0
lab*tce 0.75 0.5 0.0
lab*nce 0.0 0.5 0.069

relative Inform. Technology (IT)
olv3* 0.75 0.5 0.661 (1.0)
cmyn3* 0.25 0.5 0.339 (0.0)
olv4* 1.0 0.5 0.661 (1.0)
cmyn4* 0.0 0.5 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 59.85 51.12 26.01
LAB*LABa 59.85 52.66 24.7
LAB*TCHa 62.5 56.6 24.7

relative CIELAB lab*
lab*lab 0.541 0.681 0.313
lab*tch 0.625 0.75 0.069
lab*nch 0.0 0.75 0.069
relative Natural Colour (NC)
lab*trj 0.541 0.75 0.0
lab*tce 0.625 0.75 0.0
lab*nce 0.0 0.75 0.069

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.661 (1.0)
cmyn3* 0.5 0.5 0.339 (0.0)
olv4* 1.0 0.5 0.661 (1.0)
cmyn4* 0.0 0.5 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 48.0 68.48 33.09
LAB*LABa 48.0 68.56 31.53
LAB*TCHa 50.0 75.47 24.7

relative CIELAB lab*
lab*lab 0.388 0.908 0.418
lab*tch 0.5 0.5 0.069
lab*nch 0.0 0.5 0.069
relative Natural Colour (NC)
lab*trj 0.388 0.5 0.0
lab*tce 0.5 0.5 0.0
lab*nce 0.0 0.5 0.069

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.661 (1.0)
cmyn3* 0.75 0.25 0.339 (0.0)
olv4* 1.0 0.25 0.661 (1.0)
cmyn4* 0.0 0.25 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 33.01 34.49 16.37
LAB*LABa 33.01 34.28 15.77
LAB*TCHa 25.01 37.73 24.7

relative CIELAB lab*
lab*lab 0.291 0.681 0.313
lab*tch 0.375 0.75 0.069
lab*nch 0.25 0.75 0.069
relative Natural Colour (NC)
lab*trj 0.291 0.75 0.0
lab*tce 0.375 0.75 0.0
lab*nce 0.25 0.75 0.069

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.661 (1.0)
cmyn3* 1.0 0.0 0.339 (0.0)
olv4* 1.0 0.0 0.661 (1.0)
cmyn4* 0.0 0.0 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 33.01 34.49 16.37
LAB*LABa 33.01 34.28 15.77
LAB*TCHa 25.01 37.73 24.7

relative CIELAB lab*
lab*lab 0.194 0.454 0.209
lab*tch 0.25 0.5 0.069
lab*nch 0.75 0.5 0.069
relative Natural Colour (NC)
lab*trj 0.194 0.5 0.0
lab*tce 0.25 0.5 0.0
lab*nce 0.75 0.5 0.069

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.661 (1.0)
cmyn3* 1.0 0.0 0.339 (0.0)
olv4* 1.0 0.0 0.661 (1.0)
cmyn4* 0.0 0.0 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 33.01 34.49 16.37
LAB*LABa 33.01 34.28 15.77
LAB*TCHa 25.01 37.73 24.7

relative CIELAB lab*
lab*lab 0.194 0.454 0.209
lab*tch 0.25 0.5 0.069
lab*nch 0.75 0.5 0.069
relative Natural Colour (NC)
lab*trj 0.194 0.5 0.0
lab*tce 0.25 0.5 0.0
lab*nce 0.75 0.5 0.069

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.661 (1.0)
cmyn3* 1.0 0.0 0.339 (0.0)
olv4* 1.0 0.0 0.661 (1.0)
cmyn4* 0.0 0.0 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 33.01 34.49 16.37
LAB*LABa 33.01 34.28 15.77
LAB*TCHa 25.01 37.73 24.7

relative CIELAB lab*
lab*lab 0.194 0.454 0.209
lab*tch 0.25 0.5 0.069
lab*nch 0.75 0.5 0.069
relative Natural Colour (NC)
lab*trj 0.194 0.5 0.0
lab*tce 0.25 0.5 0.0
lab*nce 0.75 0.5 0.069

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.661 (1.0)
cmyn3* 1.0 0.0 0.339 (0.0)
olv4* 1.0 0.0 0.661 (1.0)
cmyn4* 0.0 0.0 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 33.01 34.49 16.37
LAB*LABa 33.01 34.28 15.77
LAB*TCHa 25.01 37.73 24.7

relative CIELAB lab*
lab*lab 0.194 0.454 0.209
lab*tch 0.25 0.5 0.069
lab*nch 0.75 0.5 0.069
relative Natural Colour (NC)
lab*trj 0.194 0.5 0.0
lab*tce 0.25 0.5 0.0
lab*nce 0.75 0.5 0.069

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.661 (1.0)
cmyn3* 1.0 0.0 0.339 (0.0)
olv4* 1.0 0.0 0.661 (1.0)
cmyn4* 0.0 0.0 0.339 (0.0)
standard and adapted CIELAB
LAB*LAB 33.01 34.49 16.37
LAB*LABa 33.01 34.28 15.77
LAB*TCHa 25.01 37.73 24.7

relative CIELAB lab*
lab*lab 0.194 0.454 0.209
lab*tch 0.25 0.5 0.069
lab*nch 0.75 0.5 0.069
relative Natural Colour (NC)
lab*trj 0.194 0.5 0.0
lab*tce 0.25 0.5 0.0
lab*nce 0.75 0.5 0.069

Output: Colorimetric Television Luminous System TLS18

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

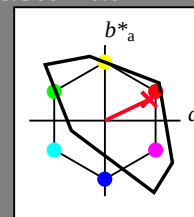
lab^*tch and lab^*nch

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)
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*TCHa 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*LABa 76.07 0.0 0.0
LAB*TCHa 75.00 0.01 -

relative CIELAB lab*
lab*lab 0.865 0.226 0.107
lab*tch 0.875 0.25 0.071
lab*nch 0.0 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.865 0.25 0.0
lab*tce 0.875 0.25 0.0
lab*nce 0.0 0.25 0.071

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 56.61 18.52 8.82
LAB*LABa 56.61 18.52 8.82
LAB*TCHa 62.5 20.51 25.48

relative CIELAB lab*
lab*lab 0.515 0.226 0.108
lab*tch 0.525 0.25 0.071
lab*nch 0.25 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.515 0.25 0.0
lab*tce 0.525 0.25 0.0
lab*nce 0.25 0.25 0.071

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*TCHa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.365 0.226 0.108
lab*tch 0.375 0.25 0.071
lab*nch 0.75 0.25 0.071
relative Natural Colour (NC)
lab*trj 0.365 0.25 0.0
lab*tce 0.375 0.25 0.0
lab*nce 0.75 0.25 0.071

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.25 (1.0)
cmyn3* 1.0 0.0 0.75 (0.0)
olv4* 1.0 0.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*TCHa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.291 0.681 0.313
lab*tch 0.375 0.75 0.069
lab*nch 0.25 0.75 0.069
relative Natural Colour (NC)
lab*trj 0.291 0.75 0.0
lab*tce 0.375 0.75 0.0
lab*nce 0.25 0.75 0.069

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.25 (1.0)
cmyn3* 1.0 0.0 0.75 (0.0)
olv4* 1.0 0.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*TCHa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.291 0.681 0.313
lab*tch 0.375 0.75 0.069
lab*nch 0.25 0.75 0.069
relative Natural Colour (NC)
lab*trj 0.291 0.75 0.0
lab*tce 0.375 0.75 0.0
lab*nce 0.25 0.75 0.069

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.25 (1.0)
cmyn3* 1.0 0.0 0.75 (0.0)
olv4* 1.0 0.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*TCHa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.291 0.681 0.313
lab*tch 0.375 0.75 0.069
lab*nch 0.25 0.75 0.069
relative Natural Colour (NC)
lab*trj 0.291 0.75 0.0
lab*tce 0.375 0.75 0.0
lab*nce 0.25 0.75 0.069

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.25 (1.0)
cmyn3* 1.0 0.0 0.75 (0.0)
olv4* 1.0 0.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 37.37 0.0 0.0
LAB*LABa 37.37 0.0 0.0
LAB*TCHa 25.00 0.01 -

relative CIELAB lab*
lab*lab 0.291 0.681 0.313
lab*tch 0.375 0.75 0.069
lab*nch 0.25 0.75 0.069
relative Natural Colour (NC)
lab*trj 0.291 0.75 0.0
lab*tce

Input: Colorimetric Offset Reflective System ORS18

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

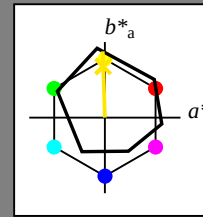
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



$u^*_{rel} = 93$

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 Inform. Technology (IT)

olv3*	1.0	0.975	0.75	(1.0)
cmyn3*	0.0	0.025	0.25	(0.0)
olv4*	1.0	0.975	0.75	(1.0)
cmyn4*	0.0	0.025	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	93.11	-1.64	26.52
LAB*LABa	93.11	-0.7	21.92
LAB*LABb	97.5	0.0	91.85

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	75.0	0.0	91.85

relative Inform. Technology (IT)

olv3*	1.0	0.926	0.25	(1.0)
cmyn3*	0.0	0.074	0.25	(0.0)
olv4*	1.0	0.926	0.25	(1.0)
cmyn4*	0.0	0.074	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	88.49	-2.96	70.05
LAB*LABa	88.49	-2.1	65.76
LAB*LABb	62.5	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.901	0.0	(1.0)
cmyn3*	0.0	0.099	0.0	(0.0)
olv4*	1.0	0.902	0.0	(1.0)
cmyn4*	0.0	0.099	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	86.15	-3.62	91.81
LAB*LABa	86.15	-2.81	87.87
LAB*LABb	50.0	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.881	-0.031	0.999
cmyn3*	0.0	0.119	0.0	(0.0)
olv4*	1.0	0.881	0.0	(1.0)
cmyn4*	0.0	0.119	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	84.14	-4.58	98.74
LAB*LABa	84.14	-3.71	94.80
LAB*LABb	37.51	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.858	-0.019	0.999
cmyn3*	0.0	0.142	0.0	(0.0)
olv4*	1.0	0.858	0.0	(1.0)
cmyn4*	0.0	0.142	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	82.15	-5.48	106.81
LAB*LABa	82.15	-4.61	102.87
LAB*LABb	25.0	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.835	-0.009	0.999
cmyn3*	0.0	0.165	0.0	(0.0)
olv4*	1.0	0.835	0.0	(1.0)
cmyn4*	0.0	0.165	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	80.15	-6.44	114.81
LAB*LABa	80.15	-5.57	110.87
LAB*LABb	12.5	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.812	0.0	(1.0)
cmyn3*	0.0	0.188	0.0	(0.0)
olv4*	1.0	0.812	0.0	(1.0)
cmyn4*	0.0	0.188	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	78.15	-7.40	122.81
LAB*LABa	78.15	-6.53	118.87
LAB*LABb	0.0	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.789	0.0	(1.0)
cmyn3*	0.0	0.211	0.0	(0.0)
olv4*	1.0	0.789	0.0	(1.0)
cmyn4*	0.0	0.211	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.15	-8.36	130.81
LAB*LABa	76.15	-7.49	126.87
LAB*LABb	-12.5	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.766	0.0	(1.0)
cmyn3*	0.0	0.234	0.0	(0.0)
olv4*	1.0	0.766	0.0	(1.0)
cmyn4*	0.0	0.234	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	74.15	-9.32	138.81
LAB*LABa	74.15	-8.45	134.87
LAB*LABb	-25.0	0.0	91.84

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

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

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

Output: Colorimetric Television Luminous System TLS18

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

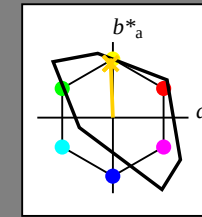
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 85 79 92

olv*Ma: 1.0 0.82 0.0

triangle lightness t^*



$u^*_{rel} = 118$

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 Inform. Technology (IT)

olv3*	1.0	0.954	0.75	(1.0)
cmyn3*	0.0	0.046	0.25	(0.0)
olv4*	1.0	0.954	0.75	(1.0)
cmyn4*	0.0	0.046	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	92.9	-0.79	19.62
LAB*LABa	92.9	-0.79	19.62
LAB*LABb	97.5	0.0	92.33

relative Inform. Technology (IT)

olv3*	1.0	0.926	0.25	(1.0)
cmyn3*	0.0	0.074	0.25	(0.0)
olv4*	1.0	0.926	0.25	(1.0)
cmyn4*	0.0	0.074	0.25	(0.0)

standard and adapted CIELAB

LAB*LAB	90.8	-2.3	48.29
LAB*LABa	90.8	-1.4	43.84
LAB*LABb	75.0	0.0	91.85

relative Inform. Technology (IT)

olv3*	1.0	0.901	0.0	(1.0)
cmyn3*	0.0	0.099	0.0	(0.0)
olv4*	1.0	0.902	0.0	(1.0)
cmyn4*	0.0	0.099	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	88.49	-2.96	70.05
LAB*LABa	88.49	-2.1	65.76
LAB*LABb	62.5	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.881	-0.031	0.999
cmyn3*	0.0	0.119	0.0	(0.0)
olv4*	1.0	0.881	0.0	(1.0)
cmyn4*	0.0	0.119	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	86.15	-3.62	91.81
LAB*LABa	86.15	-2.81	87.87
LAB*LABb	50.0	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.858	-0.019	0.999
cmyn3*	0.0	0.142	0.0	(0.0)
olv4*	1.0	0.858	0.0	(1.0)
cmyn4*	0.0	0.142	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	84.14	-4.58	98.74
LAB*LABa	84.14	-3.71	94.80
LAB*LABb	37.51	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.835	-0.009	0.999
cmyn3*	0.0	0.165	0.0	(0.0)
olv4*	1.0	0.835	0.0	(1.0)
cmyn4*	0.0	0.165	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	82.15	-5.48	106.81
LAB*LABa	82.15	-4.61	102.87
LAB*LABb	25.0	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.812	0.0	(1.0)
cmyn3*	0.0	0.188	0.0	(0.0)
olv4*	1.0	0.812	0.0	(1.0)
cmyn4*	0.0	0.188	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	80.15	-6.44	114.81
LAB*LABa	80.15	-5.57	110.87
LAB*LABb	12.5	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.789	0.0	(1.0)
cmyn3*	0.0	0.211	0.0	(0.0)
olv4*	1.0	0.789	0.0	(1.0)
cmyn4*	0.0	0.211	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	78.15	-7.40	122.81
LAB*LABa	78.15	-6.53	118.87
LAB*LABb	0.0	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.766	0.0	(1.0)
cmyn3*	0.0	0.234	0.0	(0.0)
olv4*	1.0	0.766	0.0	(1.0)
cmyn4*	0.0	0.234	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.15	-8.36	130.81
LAB*LABa	76.15	-7.49	126.87
LAB*LABb	-12.5	0.0	91.84

relative Inform. Technology (IT)

olv3*	1.0	0.743	0.0	(1.0)
cmyn3*	0.0	0.257	0.0	(0.0)
olv4*	1.0	0.743	0.0	(1.0)
cmyn4*	0.0	0.257	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	74.15	-9.32	138.81
LAB*LABa	74.15	-8.45	134.87
LAB*LABb	-25.0	0.0	91.84

BAM-test chart NE51; Colorimetric systems ORS18 & TLS18

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

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

input: $olv^*setrgbcolor$

output: no change compared to input

NE510-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

input: $olv^*setrgbcolor$

output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

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

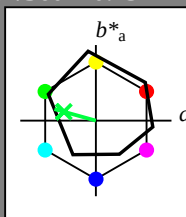
lab^*tch and lab^*nch

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*	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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

relative Inform. Technology (IT)			
olv3*	0.0	0.0	0.0 (1)
cmyn3*	1.0	1.0	1.0 (0.0)
olv4*	1.0	1.0	1.0 (0.0)
cmyn4*	0.0	0.0	1.0 (0.0)
standard and adapted CIELAB			
LAB*Lab	18.03	0.0	0.0
LAB*Lab ₉₀	18.03	0.0	0.0
LAB*H ₉₀	0.0	0.01	-
relative CIELAB Lab*			
lab*lab	0.0	0.0	0.0
lab*rch	0.0	0.0	-
lab*nch	1.0	0.0	-
relative Natural Colour (NC)			
lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 271/360 = 0.754$

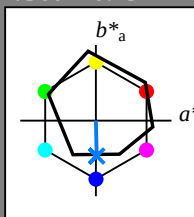
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 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*LABa 95.41 0.0 0.0
LAB*LABb 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*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 76.06 0.0 0.0
LAB*LABc 76.06 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
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 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 56.71 0.0 0.0
LAB*LABc 56.71 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
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 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 56.71 0.0 0.0
LAB*LABc 56.71 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*tch 0.25 0.25 0.25 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (1.0)
lab*tce 0.25 0.25 0.25 (1.0)
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 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 56.71 0.0 0.0
LAB*LABc 56.71 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*tch 0.25 0.25 0.25 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (1.0)
lab*tce 0.25 0.25 0.25 (1.0)
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 56.71 -0.24 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 56.71 0.0 0.0
LAB*LABc 56.71 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*tch 0.25 0.25 0.25 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (1.0)
lab*tce 0.25 0.25 0.25 (1.0)
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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0
LAB*LABc 18.02 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0
LAB*LABc 18.02 0.0 0.0

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0
LAB*LABc 18.02 0.0 0.0

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

NE510-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

BAM-test chart NE51; Colorimetric systems ORS18 & TLS18

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

Output: Colorimetric Television Luminous System TLS18

for hue $h^* = lab^*h = 272/360 = 0.755$

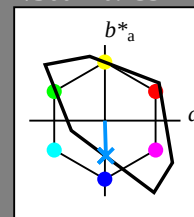
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 65 48 272

olv*Ma: 0.0 0.58 1.0

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 95.41 0.0 0.0
LAB*LABc 95.41 0.0 0.0

relative CIELAB lab*
lab*lab 1.0 0.0 0.0
lab*tch 1.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*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 76.07 0.0 0.0
LAB*LABc 76.07 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
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 76.07 0.0 0.0
LAB*LABc 76.07 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.75 0.75 0.75 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.75 0.75 0.75 (1.0)
lab*tce 0.75 0.75 0.75 (1.0)
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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 56.72 0.0 0.0
LAB*LABc 56.72 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*tch 0.25 0.25 0.25 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (1.0)
lab*tce 0.25 0.25 0.25 (1.0)
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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 56.72 0.0 0.0
LAB*LABc 56.72 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*tch 0.25 0.25 0.25 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (1.0)
lab*tce 0.25 0.25 0.25 (1.0)
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 56.72 0.0 0.0
LAB*LABa 56.72 0.0 0.0
LAB*LABb 56.72 0.0 0.0
LAB*LABc 56.72 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.25 0.25 (1.0)
lab*tch 0.25 0.25 0.25 (1.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.25 0.25 (1.0)
lab*tce 0.25 0.25 0.25 (1.0)
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 18.03 0.0 0.0
LAB*LABc 18.03 0.0 0.0

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

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

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

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

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

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

input: `olv* setrgbcolor`

output: no change compared to input

BAM-test chart NE51; Colorimetric systems ORS18 & TLS18

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