

Input: Colorimetric Offset Reflective System ORS18

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

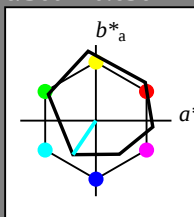
lab^*tch and lab^*nch

A: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_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 4.75
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*tc 1.0 0.0 0.0
lab*nc 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 -

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*tc 0.75 0.0 0.0
lab*nc 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 -

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*tc 0.5 0.0 0.0
lab*nc 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 -

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*tc 0.25 0.0 0.0
lab*nc 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 0.47
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*nc 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 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 1.0 1.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.75 1.0 1.0 (1.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 86.21 -8.39 -7.1
LAB*LABa 86.21 -7.57 -11.24
LAB*LABb 87.5 13.57 236.02

relative CIELAB lab*
lab*lab 0.881 -0.139 -0.206
lab*tch 0.875 0.25 0.566
lab*nch 0.0 0.25 0.566
relative Natural Colour (NC)
lab*tr 0.881 -0.123 -0.216
lab*tc 0.875 0.25 0.566
lab*nc 0.0 0.25 0.566

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.75 1.0 1.0 (0.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.86 -8.02 -8.42
LAB*LABa 66.86 -7.58 -11.25
LAB*LABb 62.5 13.57 236.02

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.566
lab*nch 0.0 0.25 0.566
relative Natural Colour (NC)
lab*tr 0.631 -0.123 -0.216
lab*tc 0.625 0.25 0.566
lab*nc 0.0 0.25 0.566

relative Inform. Technology (IT)
olv3* 0.25 0.5 0.5 (1.0)
cmyn3* 0.75 0.5 0.5 (0.0)
olv4* 0.75 1.0 1.0 (0.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.51 -7.64 -9.72
LAB*LABa 47.51 -7.58 -11.25
LAB*LABb 37.5 13.57 236.02

relative CIELAB lab*
lab*lab 0.381 -0.139 -0.206
lab*tch 0.375 0.25 0.566
lab*nch 0.0 0.25 0.566
relative Natural Colour (NC)
lab*tr 0.381 -0.123 -0.216
lab*tc 0.375 0.25 0.566
lab*nc 0.0 0.25 0.566

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (1.0)
cmyn3* 1.0 0.5 0.5 (0.0)
olv4* 0.75 1.0 1.0 (0.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 38.32 -15.03 -6.86
LAB*LABa 38.32 -15.16 -22.5
LAB*LABb 25.01 21.14 236.02

relative CIELAB lab*
lab*lab 0.262 -0.278 -0.414
lab*tch 0.25 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*tr 0.262 -0.247 -0.433
lab*tc 0.25 0.5 0.656
lab*nc 0.0 0.5 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.5 (1.0)
cmyn3* 1.0 0.75 0.75 (0.0)
olv4* 0.75 1.0 1.0 (0.0)
cmyn4* 0.25 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 28.17 -7.57 -11.03
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 0.566
lab*nch 0.0 0.25 0.566
relative Natural Colour (NC)
lab*tr 0.131 -0.123 -0.216
lab*tc 0.125 0.25 0.566
lab*nc 0.0 0.25 0.566

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 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 1.0 1.0 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 0.5 1.0 1.0 (1.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 77.01 -15.8 -19.98
LAB*LABa 77.01 -15.16 -22.5
LAB*LABb 75.0 27.14 236.02

relative CIELAB lab*
lab*lab 0.762 -0.278 -0.414
lab*tch 0.75 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*tr 0.762 -0.247 -0.433
lab*tc 0.75 0.5 0.656
lab*nc 0.0 0.5 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.5 1.0 1.0 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.67 -15.43 -20.29
LAB*LABa 57.67 -15.16 -22.5
LAB*LABb 50.0 27.14 236.02

relative CIELAB lab*
lab*lab 0.642 -0.418 -0.621
lab*tch 0.625 0.75 0.656
lab*nch 0.0 0.75 0.656
relative Natural Colour (NC)
lab*tr 0.642 -0.371 -0.65
lab*tc 0.625 0.75 0.656
lab*nc 0.0 0.75 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.25 (1.0)
cmyn3* 1.0 0.25 0.25 (0.0)
olv4* 0.25 1.0 1.0 (0.0)
cmyn4* 0.25 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 0.375 0.75 0.656
lab*nch 0.0 0.75 0.656
relative Natural Colour (NC)
lab*tr 0.394 -0.371 -0.65
lab*tc 0.375 0.75 0.656
lab*nc 0.0 0.75 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.5 (1.0)
cmyn3* 1.0 0.0 0.5 (0.0)
olv4* 0.5 1.0 1.0 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 38.32 -15.03 -6.86
LAB*LABa 38.32 -15.16 -22.5
LAB*LABb 25.01 21.14 236.02

relative CIELAB lab*
lab*lab 0.262 -0.278 -0.414
lab*tch 0.25 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*tr 0.262 -0.247 -0.433
lab*tc 0.25 0.5 0.656
lab*nc 0.0 0.5 0.656

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.25 1.0 1.0 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olv4* 0.25 1.0 1.0 (1.0)
cmyn4* 0.75 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 67.81 -23.21 -30.86
LAB*LABa 67.81 -22.75 -33.75
LAB*LABb 62.5 40.72 236.02

relative CIELAB lab*
lab*lab 0.642 -0.418 -0.621
lab*tch 0.625 0.75 0.656
lab*nch 0.0 0.75 0.656
relative Natural Colour (NC)
lab*tr 0.642 -0.371 -0.65
lab*tc 0.625 0.75 0.656
lab*nc 0.0 0.75 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.25 1.0 1.0 (0.0)
cmyn4* 0.75 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 57.67 -15.43 -20.29
LAB*LABa 57.67 -15.16 -22.5
LAB*LABb 50.0 27.14 236.02

relative CIELAB lab*
lab*lab 0.642 -0.418 -0.621
lab*tch 0.625 0.75 0.656
lab*nch 0.0 0.75 0.656
relative Natural Colour (NC)
lab*tr 0.642 -0.371 -0.65
lab*tc 0.625 0.75 0.656
lab*nc 0.0 0.75 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.25 (1.0)
cmyn3* 1.0 0.25 0.25 (0.0)
olv4* 0.25 1.0 1.0 (0.0)
cmyn4* 0.25 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 0.375 0.75 0.656
lab*nch 0.0 0.75 0.656
relative Natural Colour (NC)
lab*tr 0.394 -0.371 -0.65
lab*tc 0.375 0.75 0.656
lab*nc 0.0 0.75 0.656

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.5 (1.0)
cmyn3* 1.0 0.0 0.5 (0.0)
olv4* 0.5 1.0 1.0 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 38.32 -15.03 -6.86
LAB*LABa 38.32 -15.16 -22.5
LAB*LABb 25.01 21.14 236.02

relative CIELAB lab*
lab*lab 0.262 -0.278 -0.414
lab*tch 0.25 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*tr 0.262 -0.247 -0.433
lab*tc 0.25 0.5 0.656
lab*nc 0.0 0.5 0.656

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*nc 0.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 1.0 1.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olv4* 0.0 1.0 1.0 (1.0)
cmyn4* 1.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 58.62 -30.34 -45.01
LAB*LABa 58.62 -30.33 -45.01
LAB*LABb 50.0 54.29 236.02

relative CIELAB lab*
lab*lab 0.5 0.5 0.0 (0.0)
lab*tch 0.5 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0 (0.0)
lab*tc 0.5 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0 (0.0)
lab*tch 0.5 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0 (0.0)
lab*tc 0.5 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olv4* 0.25 1.0 1.0 (0.0)
cmyn4* 0.75 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 50.0 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0 (0.0)
lab*tch 0.5 0.0 0.0 (0.0)
lab*nch 0.0 0.0 0.0 (0.0)
relative Natural Colour (NC)
lab*tr 0.5 0.0 0.0 (0.0)
lab*tc 0.5 0.0 0.0 (0.0)
lab*nc 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.5 (1.0)
cmyn3* 1.0 0.0 0.5 (0.0)
olv4* 0.5 1.0 1.0 (0.0)
cmyn4* 0.5 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 38.32 -15.03 -6.86
LAB*LABa 38.32 -15.16 -22.5
LAB*LABb 25.01 21.14 236.02

relative CIELAB lab*
lab*lab 0.262 -0.278 -0.414
lab*tch 0.25 0.5 0.656
lab*nch 0.0 0.5 0.656
relative Natural Colour (NC)
lab*tr 0.262 -0.247 -0.433
lab*tc 0.25 0.5 0.656
lab*nc 0.0 0.5 0.656

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

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*tr 0.0 0.0 0.0
lab*tc 0.0 0.0 0.0
lab*nc 0.0 0.0 0.0

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 196/360 = 0.545$

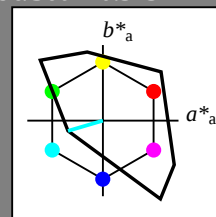
lab^*tch and lab^*nch

A: hue C

LCH*Ma: 87 48 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L_a^*$	a_a^*	b_a^*	$C^*_{ab,a}$	h^*_{ab}
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

Input: Colorimetric Offset Reflective System ORS18

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

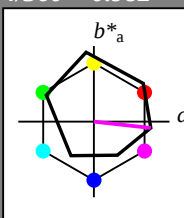
lab^*tch and lab^*nch

A: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

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*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 1.0 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 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (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 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 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.75 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 0.75 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
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 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 0.5 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* 0.25 0.25 0.25 (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 37.36 -0.03 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 37.36 0.0 0.0
LAB*LABc 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.25 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 0.25 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 18.02 0.03 0.47
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
lab*tch 0.0 0.0 0.0
lab*nch 0.0 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 0.0 0.0 0.0

$n^* = 1.0$

ORS18; adapted (a) CIELAB data

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

% Regularity

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

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

relative Inform. Technology (IT)
olv3* 1.0 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 71.77 37.63 -4.17
LAB*LABc 71.77 37.63 -4.17

relative CIELAB lab*
lab*lab 0.695 0.497 -0.054
lab*tch 0.75 0.5 0.982
lab*nch 1.0 0.5 1.0
relative Natural Colour (NC)
lab*trj 0.695 0.454 -0.208
lab*tce 0.75 0.5 0.982
lab*nce 1.0 0.5 1.0

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 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 52.42 37.64 -4.17
LAB*LABa 52.42 37.64 -4.17
LAB*LABb 52.42 37.64 -4.17
LAB*LABc 52.42 37.64 -4.17

relative CIELAB lab*
lab*lab 0.445 0.454 -0.208
lab*tch 0.75 0.5 0.982
lab*nch 1.0 0.5 1.0
relative Natural Colour (NC)
lab*trj 0.445 0.454 -0.208
lab*tce 0.75 0.5 0.982
lab*nce 1.0 0.5 1.0

relative Inform. Technology (IT)
olv3* 0.5 0.0 0.5 (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 33.07 37.64 -4.17
LAB*LABa 33.07 37.64 -4.17
LAB*LABb 33.07 37.64 -4.17
LAB*LABc 33.07 37.64 -4.17

relative CIELAB lab*
lab*lab 0.195 0.454 -0.208
lab*tch 0.75 0.5 0.982
lab*nch 1.0 0.0 1.0
relative Natural Colour (NC)
lab*trj 0.195 0.454 -0.208
lab*tce 0.75 0.5 0.982
lab*nce 1.0 0.0 1.0

relative Inform. Technology (IT)
olv3* 0.25 0.0 0.25 (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 25.54 18.81 -2.08
LAB*LABa 25.54 18.81 -2.08
LAB*LABb 25.54 18.81 -2.08
LAB*LABc 25.54 18.81 -2.08

relative CIELAB lab*
lab*lab 0.097 0.248 -0.027
lab*tch 0.125 0.25 0.982
lab*nch 1.0 0.0 1.0
relative Natural Colour (NC)
lab*trj 0.097 0.248 -0.027
lab*tce 0.125 0.25 0.982
lab*nce 1.0 0.0 1.0

$n^* = 0.50$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 328/360 = 0.912$

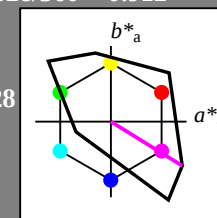
lab^*tch and lab^*nch

A: hue M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



% Gamut

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 1.0 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 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (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 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 71.57 0.0 0.0
LAB*LABc 71.57 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.75 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 0.75 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
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 52.42 37.64 -4.17
LAB*LABa 52.42 37.64 -4.17
LAB*LABb 52.42 37.64 -4.17
LAB*LABc 52.42 37.64 -4.17

relative CIELAB lab*
lab*lab 0.445 0.454 -0.208
lab*tch 0.75 0.5 0.982
lab*nch 1.0 0.5 1.0
relative Natural Colour (NC)
lab*trj 0.445 0.454 -0.208
lab*tce 0.75 0.5 0.982
lab*nce 1.0 0.5 1.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (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 33.07 37.64 -4.17
LAB*LABa 33.07 37.64 -4.17
LAB*LABb 33.07 37.64 -4.17
LAB*LABc 33.07 37.64 -4.17

relative CIELAB lab*
lab*lab 0.195 0.454 -0.208
lab*tch 0.75 0.5 0.982
lab*nch 1.0 0.0 1.0
relative Natural Colour (NC)
lab*trj 0.195 0.454 -0.208
lab*tce 0.75 0.5 0.982
lab*nce 1.0 0.0 1.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 18.02 0.03 0.47
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
lab*tch 0.0 0.0 0.0
lab*nch 0.0 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 0.0 0.0 0.0

$n^* = 1.0$

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (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 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*LABb 71.57 0.0 0.0
LAB*LABc 71.57 0.0 0.0

relative CIELAB lab*
lab*lab 0.75 0.0 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.75 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 0.75 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
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 52.42 37.64 -4.17
LAB*LABa 52.42 37.64 -4.17
LAB*LABb 52.42 37.64 -4.17
LAB*LABc 52.42 37.64 -4.17

relative CIELAB lab*
lab*lab 0.445 0.454 -0.208
lab*tch 0.75 0.5 0.982
lab*nch 1.0 0.5 1.0
relative Natural Colour (NC)
lab*trj 0.445 0.454 -0.208
lab*tce 0.75 0.5 0.982
lab*nce 1.0 0.5 1.0

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (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 33.07 37.64 -4.17
LAB*LABa 33.07 37.64 -4.17
LAB*LABb 33.07 37.64 -4.17
LAB*LABc 33.07 37.64 -4.17

relative CIELAB lab*
lab*lab 0.195 0.454 -0.208
lab*tch 0.75 0.5 0.982
lab*nch 1.0 0.0 1.0
relative Natural Colour (NC)
lab*trj 0.195 0.454 -0.208
lab*tce 0.75 0.5 0.982
lab*nce 1.0 0.0 1.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 18.02 0.03 0.47
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
lab*tch 0.0 0.0 0.0
lab*nch 0.0 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 0.0 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 85.88 23.58 -14.59
LAB*LABa 85.88 23.58 -14.59
LAB*LABb 85.88 23.58 -14.59
LAB*LABc 85.88 23.58 -14.59

relative CIELAB lab*
lab*lab 0.8 0.25 0.912
lab*tch 0.875 0.25 0.912
lab*nch 1.0 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.8 0.176 -0.177
lab*tce 0.875 0.25 0.912
lab*nce 1.0 0.25 0.912

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 0.5 1.0 (1.0)
cmyn4* 0.0 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 62.03 23.59 -14.6
LAB*LABa 62.03 23.59 -14.6
LAB*LABb 62.03 23.59 -14.6
LAB*LABc 62.03 23.59 -14.6

relative CIELAB lab*
lab*lab 0.6 0.213 -0.131
lab*tch 0.625 0.25 0.912
lab*nch 1.0 0.25 0.912
relative Natural Colour (NC)
lab*trj 0.6 0.176 -0.177
lab*tce 0.625 0.25 0.912
lab*nce 1.0 0.25 0.912

relative Inform. Technology (IT)
olv3* 0.5 0.25 0.5 (0.0)
cmyn3* 0.0 0.25 0.0 (0.0)
olv4* 1.0 0.25 0.5 (0.0)
cmyn4* 0.0 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*LABb 47.72 0.0 0.0
LAB*LABc 47.72 0.0 0.0

relative CIELAB lab*
lab*lab 0.5 0.0 0.0
lab*tch 0.5 0.0 0.0
lab*nch 0.5 0.0 0.0
relative Natural Colour (NC)
lab*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* 0.25 0.25 0.25 (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 33.07 37.64 -4.17
LAB*LABa 33.07 37.64 -4.17
LAB*LABb 33.07 37.64 -4.17
LAB*LABc 33.07 37.64 -4.17

relative CIELAB lab*
lab*lab 0.195 0.454 -0.208
lab*tch 0.75 0.5 0.982
lab*nch 1.0 0.0 1.0
relative Natural Colour (NC)
lab*trj 0.195 0.454 -0.208
lab*tce 0.75 0.5 0.982
lab*nce 1.0 0.0 1.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (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 18.02 0.03 0.47
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
lab*tch 0.0 0.0 0.0
lab*nch 0.0 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 0.0 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 76.35 47.17 -29.19
LAB*LABa 76.35 47.17 -29.19
LAB*LABb 76.35 47.17 -29.19
LAB*LABc 76.35 47.17 -29.19

relative CIELAB lab*
lab*lab 0.8 0.425 -0.262
lab*tch 0.875 0.5 0.912
lab*nch 1.0 0.5 1.0
relative Natural Colour (NC)
lab*trj 0.8 0.352 -0.354
lab*tce 0.875 0.5 0.912
lab*nce 1.0 0.5 0.912

relative Inform. Technology (IT)
olv3* 0.75 0.25 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 0.25 0.75 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 66.82 70.75 -43.8
LAB*LABa 66.82 70.75 -43.8
LAB*LABb 66.82 70.75 -43.8
LAB*LABc 66.82 70.75 -43.8

relative CIELAB lab*
lab*lab 0.7 0.638 -0.394
lab*tch 0.75 0.5 0.912
lab*nch 1.0 0.25 1.0
relative Natural Colour (NC)
lab*trj 0.7 0.528 -0.532
lab*tce 0.75 0.5 0.912
lab*nce 1.0 0.25 1.0

relative Inform. Technology (

Dr. ALVI HUSSAIN

Input: Colorimetric Offset Reflective System ORS18

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

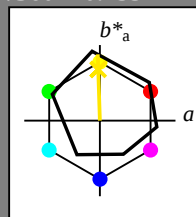
lab^*tch and lab^*nch

A: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	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 4.75
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* 0.0 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 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 (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 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 (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 37.36 -0.03 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 0.0 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 18.02 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 0.0 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 (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 0.0 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 0.975 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 87.5 21.93 91.85

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

relative Inform. Technology (IT)
olv3* 0.75 0.75 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 73.75 -1.27 25.22
LAB*LABa 73.75 -0.69 21.92
LAB*LABb 62.5 21.93 91.84

relative CIELAB lab*
lab*lab 0.75 -0.007 0.25
lab*tch 0.625 0.25 0.25
lab*nch 0.0 0.25 0.25
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.25
lab*tce 0.625 0.25 0.25
lab*nce 0.0 0.25 0.25

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (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 54.4 -0.89 23.91
LAB*LABa 54.4 -0.69 21.92
LAB*LABb 50.0 21.93 91.84

relative CIELAB lab*
lab*lab 0.5 -0.007 0.25
lab*tch 0.375 0.25 0.25
lab*nch 0.0 0.25 0.25
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.25
lab*tce 0.375 0.25 0.25
lab*nce 0.0 0.25 0.25

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (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 37.36 -0.03 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 -0.007 0.25
lab*tch 0.125 0.25 0.25
lab*nch 0.0 0.25 0.25
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.25
lab*tce 0.125 0.25 0.25
lab*nce 0.0 0.25 0.25

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 0.0 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 0.951 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 43.86 91.85

relative CIELAB lab*
lab*lab 0.94 -0.015 0.5
lab*tch 0.75 0.5 0.5
lab*nch 0.0 0.5 0.25
relative Natural Colour (NC)
lab*trj 0.94 0.0 0.5
lab*tce 0.75 0.5 0.5
lab*nce 0.0 0.5 0.25

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (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 88.49 -2.96 70.05
LAB*LABa 88.49 -1.1 65.76
LAB*LABb 62.5 65.79 91.84

relative CIELAB lab*
lab*lab 0.75 0.023 0.75
lab*tch 0.625 0.75 0.25
lab*nch 0.0 0.75 0.25
relative Natural Colour (NC)
lab*trj 0.75 0.0 0.75
lab*tce 0.625 0.75 0.25
lab*nce 0.0 0.75 0.25

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.0 0.099 1.0 (0.0)
olv4* 1.0 0.902 0.0 1.0
cmyn4* 0.0 0.099 0.5 0.5
standard and adapted CIELAB
LAB*LAB 86.15 -3.62 91.81
LAB*LABa 86.15 -2.81 87.87
LAB*LABb 50.0 87.72 91.84

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 0.5
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 0.5

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.0 0.099 1.0 (0.0)
olv4* 1.0 0.902 0.0 1.0
cmyn4* 0.0 0.099 0.5 0.5
standard and adapted CIELAB
LAB*LAB 86.15 -3.62 91.81
LAB*LABa 86.15 -2.81 87.87
LAB*LABb 50.0 87.72 91.84

relative CIELAB lab*
lab*lab 0.25 -0.023 0.75
lab*tch 0.375 0.75 0.25
lab*nch 0.0 0.75 0.25
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.75
lab*tce 0.375 0.75 0.25
lab*nce 0.0 0.75 0.25

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 0.0 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 0.926 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 -1.1 65.76
LAB*LABb 62.5 65.79 91.84

relative CIELAB lab*
lab*lab 0.91 -0.023 0.75
lab*tch 0.625 0.75 0.25
lab*nch 0.0 0.75 0.25
relative Natural Colour (NC)
lab*trj 0.91 0.0 0.75
lab*tce 0.625 0.75 0.25
lab*nce 0.0 0.75 0.25

relative Inform. Technology (IT)
olv3* 0.75 0.675 0.0 (1.0)
cmyn3* 0.25 0.299 0.75 (0.0)
olv4* 1.0 0.951 0.5 0.75
cmyn4* 0.0 0.049 0.5 0.25
standard and adapted CIELAB
LAB*LAB 71.45 -1.92 46.98
LAB*LABa 71.45 -1.4 43.84
LAB*LABb 50.0 43.87 91.84

relative CIELAB lab*
lab*lab 0.69 -0.015 0.5
lab*tch 0.5 0.5 0.25
lab*nch 0.0 0.5 0.25
relative Natural Colour (NC)
lab*trj 0.69 0.0 0.5
lab*tce 0.5 0.5 0.25
lab*nce 0.0 0.5 0.25

relative Inform. Technology (IT)
olv3* 0.5 0.451 0.0 (1.0)
cmyn3* 0.5 0.525 0.75 (0.0)
olv4* 1.0 0.975 0.75 0.5
cmyn4* 0.0 0.025 0.25 0.5
standard and adapted CIELAB
LAB*LAB 54.4 -0.89 23.91
LAB*LABa 54.4 -0.69 21.92
LAB*LABb 50.0 21.93 91.84

relative CIELAB lab*
lab*lab 0.5 -0.015 0.5
lab*tch 0.375 0.75 0.25
lab*nch 0.0 0.75 0.25
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.5
lab*tce 0.375 0.75 0.25
lab*nce 0.0 0.75 0.25

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.0 0.099 1.0 (0.0)
olv4* 1.0 0.902 0.0 1.0
cmyn4* 0.0 0.099 0.5 0.5
standard and adapted CIELAB
LAB*LAB 86.15 -3.62 91.81
LAB*LABa 86.15 -2.81 87.87
LAB*LABb 50.0 87.72 91.84

relative CIELAB lab*
lab*lab 0.25 -0.023 0.75
lab*tch 0.375 0.75 0.25
lab*nch 0.0 0.75 0.25
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.75
lab*tce 0.375 0.75 0.25
lab*nce 0.0 0.75 0.25

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 0.0 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 0.901 0.0 (1.0)
cmyn3* 0.0 0.099 1.0 (0.0)
olv4* 1.0 0.902 0.0 1.0
cmyn4* 0.0 0.099 0.5 0.5
standard and adapted CIELAB
LAB*LAB 86.15 -3.62 91.81
LAB*LABa 86.15 -2.81 87.87
LAB*LABb 50.0 87.72 91.84

relative CIELAB lab*
lab*lab 0.881 -0.031 0.999
lab*tch 0.5 1.0 0.25
lab*nch 0.0 1.0 0.25
relative Natural Colour (NC)
lab*trj 0.881 0.0 1.0
lab*tce 0.5 1.0 0.25
lab*nce 0.0 1.0 0.25

relative Inform. Technology (IT)
olv3* 0.75 0.675 0.0 (1.0)
cmyn3* 0.25 0.324 1.0 (0.0)
olv4* 1.0 0.926 0.25 0.75
cmyn4* 0.0 0.074 0.25 0.25
standard and adapted CIELAB
LAB*LAB 69.14 -2.58 68.74
LAB*LABa 69.14 -2.1 65.76
LAB*LABb 37.51 65.79 91.84

relative CIELAB lab*
lab*lab 0.661 -0.023 0.75
lab*tch 0.375 0.75 0.25
lab*nch 0.0 0.75 0.25
relative Natural Colour (NC)
lab*trj 0.661 0.0 0.75
lab*tce 0.375 0.75 0.25
lab*nce 0.0 0.75 0.25

relative Inform. Technology (IT)
olv3* 0.5 0.451 0.0 (1.0)
cmyn3* 0.5 0.525 0.75 (0.0)
olv4* 1.0 0.975 0.75 0.5
cmyn4* 0.0 0.025 0.25 0.5
standard and adapted CIELAB
LAB*LAB 54.4 -0.89 23.91
LAB*LABa 54.4 -0.69 21.92
LAB*LABb 50.0 21.93 91.84

relative CIELAB lab*
lab*lab 0.5 -0.015 0.5
lab*tch 0.375 0.75 0.25
lab*nch 0.0 0.75 0.25
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.5
lab*tce 0.375 0.75 0.25
lab*nce 0.0 0.75 0.25

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.0 0.099 1.0 (0.0)
olv4* 1.0 0.902 0.0 1.0
cmyn4* 0.0 0.099 0.5 0.5
standard and adapted CIELAB
LAB*LAB 86.15 -3.62 91.81
LAB*LABa 86.15 -2.81 87.87
LAB*LABb 50.0 87.72 91.84

relative CIELAB lab*
lab*lab 0.25 -0.023 0.75
lab*tch 0.375 0.75 0.25
lab*nch 0.0 0.75 0.25
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.75
lab*tce 0.375 0.75 0.25
lab*nce 0.0 0.75 0.25

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 0.0 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

Output: Colorimetric Television Luminous System TLS00

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

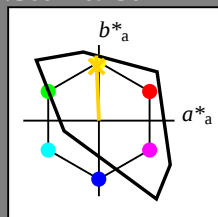
lab^*tch and lab^*nch

A: hue J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272

Input: Colorimetric Offset Reflective System ORS18

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

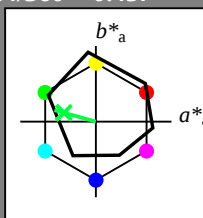
lab^*tch and lab^*nch

A: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)	
olv3*	0.75 0.75 0.75 (1.0)
olv4*	0.25 0.25 0.25 (0.0)
olv5*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	95.41 -9.98 47.5
LAB*Lab	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
relative CIELAB lab*	
lab*lab	1.0 0.0 0.0
lab*ch	0.0 0.0 0.0
lab*nch	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	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*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	95.41 -9.98 47.5
LAB*Lab	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
relative CIELAB lab*	
lab*lab	1.0 0.0 0.0
lab*ch	0.0 0.0 0.0
lab*nch	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	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*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	95.41 -9.98 47.5
LAB*Lab	95.41 0.0 0.0
LAB*Lab	95.41 0.0 0.0
relative CIELAB lab*	
lab*lab	1.0 0.0 0.0
lab*ch	0.0 0.0 0.0
lab*nch	0.0 0.0 0.0
relative Natural Colour (NC)	
lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	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*	0.0 0.0 0.0 (0.0)
standard and adapted CIELAB	
LAB*LAB	95.41 -9.98 47.5
LAB*Lab	95.41 0.0 0.0
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lab*lab	1.0 0.0 0.0
lab*ch	0.0 0.0 0.0
lab*nch	0.0 0.0 0.0
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lab*trj	0.0 0.0 0.0
lab*trc	0.0 0.0 0.0
lab*ncc	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)
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RE500-7, 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 RE50; Colorimetric systems ORS18 & TLS00

A: 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 $h^* = lab \cdot h = 271/360 = 0.754$

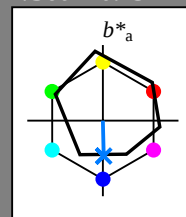
$lab \cdot tch$ and $lab \cdot nch$

A: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 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

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

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

1.00

0.75

$n^* = 0.00$

0.25

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

$n^* = 1.0$

Output: Colorimetric Television Luminous System TLS00

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

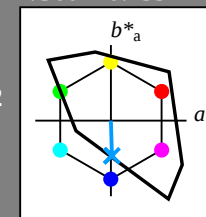
$lab \cdot tch$ and $lab \cdot nch$

A: hue B

LCH*Ma: 65 49 272

olv*Ma: 0.0 0.61 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	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

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

$n^* = 0.00$

0.25

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

$n^* = 1.0$

RE500-7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

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

BAM-test chart RE50; Colorimetric systems ORS18 & TLS00

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

input: `olv* setrgbcolor`

output: `olv* setrgbcolor / w* setgray`