

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 40/360 = 0.111$

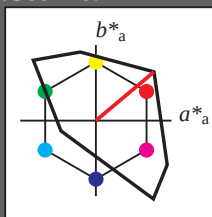
$lab \cdot tch$ and $lab \cdot nch$

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 158$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0
LAB*Lab	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

standard and adapted CIELAB

LAB*Lab	84.18	19.22	16.13
LAB*Lab	84.18	19.22	16.13
LAB*Lab	84.18	19.22	16.13
LAB*Lab	84.18	19.22	16.13

relative CIELAB lab*

lab*lab	0.882	0.191	0.161
lab*lab	0.882	0.191	0.161
lab*lab	0.882	0.191	0.161
lab*lab	0.882	0.191	0.161

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*Lab	72.95	38.45	32.27
LAB*Lab	72.95	38.45	32.27
LAB*Lab	72.95	38.45	32.27
LAB*Lab	72.95	38.45	32.27

relative CIELAB lab*

lab*lab	0.765	0.383	0.321
lab*lab	0.765	0.383	0.321
lab*lab	0.765	0.383	0.321
lab*lab	0.765	0.383	0.321

relative Natural Colour (NC)

lab*trj	0.765	0.471	0.167
lab*trj	0.765	0.471	0.167
lab*trj	0.765	0.471	0.167
lab*trj	0.765	0.471	0.167

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*Lab	61.72	57.68	48.41
LAB*Lab	61.72	57.68	48.41
LAB*Lab	61.72	57.68	48.41
LAB*Lab	61.72	57.68	48.41

relative CIELAB lab*

lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046

relative Natural Colour (NC)

lab*trj	0.625	0.375	0.046
lab*trj	0.625	0.375	0.046
lab*trj	0.625	0.375	0.046
lab*trj	0.625	0.375	0.046

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*Lab	76.06	-0.61	3.44
LAB*Lab	76.06	-0.61	3.44
LAB*Lab	76.06	-0.61	3.44
LAB*Lab	76.06	-0.61	3.44

relative CIELAB lab*

lab*lab	0.765	0.383	0.321
lab*lab	0.765	0.383	0.321
lab*lab	0.765	0.383	0.321
lab*lab	0.765	0.383	0.321

relative Natural Colour (NC)

lab*trj	0.765	0.471	0.167
lab*trj	0.765	0.471	0.167
lab*trj	0.765	0.471	0.167
lab*trj	0.765	0.471	0.167

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*Lab	61.72	57.68	48.41
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LAB*Lab	61.72	57.68	48.41
LAB*Lab	61.72	57.68	48.41

relative CIELAB lab*

lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046

relative Natural Colour (NC)

lab*trj	0.625	0.375	0.046
lab*trj	0.625	0.375	0.046
lab*trj	0.625	0.375	0.046
lab*trj	0.625	0.375	0.046

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	71.57	0.0	0.0
LAB*Lab	71.57	0.0	0.0
LAB*Lab	71.57	0.0	0.0
LAB*Lab	71.57	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

standard and adapted CIELAB

LAB*Lab	60.33	19.23	16.14
LAB*Lab	60.33	19.23	16.14
LAB*Lab	60.33	19.23	16.14
LAB*Lab	60.33	19.23	16.14

relative CIELAB lab*

lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	49.11	38.46	32.28
LAB*Lab	49.11	38.46	32.28
LAB*Lab	49.11	38.46	32.28
LAB*Lab	49.11	38.46	32.28

relative CIELAB lab*

lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046

relative Natural Colour (NC)

lab*trj	0.625	0.375	0.046
lab*trj	0.625	0.375	0.046
lab*trj	0.625	0.375	0.046
lab*trj	0.625	0.375	0.046

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	56.71	0.24	2.14
LAB*Lab	56.71	0.24	2.14
LAB*Lab	56.71	0.24	2.14
LAB*Lab	56.71	0.24	2.14

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	44.84	16.33	13.97
LAB*Lab	44.84	16.33	13.97
LAB*Lab	44.84	16.33	13.97
LAB*Lab	44.84	16.33	13.97

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	59.8	48.73	40.24
LAB*Lab	59.8	48.73	40.24
LAB*Lab	59.8	48.73	40.24
LAB*Lab	59.8	48.73	40.24

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	47.72	0.0	0.0
LAB*Lab	47.72	0.0	0.0
LAB*Lab	47.72	0.0	0.0
LAB*Lab	47.72	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

standard and adapted CIELAB

LAB*Lab	49.11	38.46	32.28
LAB*Lab	49.11	38.46	32.28
LAB*Lab	49.11	38.46	32.28
LAB*Lab	49.11	38.46	32.28

relative CIELAB lab*

lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*Lab	49.11	38.46	32.28
LAB*Lab	49.11	38.46	32.28
LAB*Lab	49.11	38.46	32.28
LAB*Lab	49.11	38.46	32.28

relative CIELAB lab*

lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046
lab*lab	0.625	0.375	0.046

relative Natural Colour (NC)

lab*trj	0.625	0.375	0.046
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Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 103/360 = 0.286$

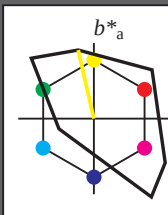
$lab \cdot tch$ and $lab \cdot nch$

D65: hue Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

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

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

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

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 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.72 0.0 0.0
LAB*LABa 47.72 0.0 0.0
LAB*TCHa 50.00 0.01

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.17 0.0 0.0
LAB*LABa 23.17 0.0 0.0
LAB*TCHa 25.00 0.01

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.00 0.01

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

$n^* = 1.0$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 94.71 -5.16 22.68
LAB*LABa 94.71 -5.16 22.68
LAB*TCHa 97.5 23.26 102.85

relative CIELAB lab*
lab*lab 0.993 -0.055 0.244
lab*tch 0.875 0.25 0.286
lab*nch 0.0 0.25 0.286
relative Natural Colour (NC)
lab*trj 0.993 -0.058 0.243
lab*tce 0.875 0.25 0.286
lab*nce 0.0 0.25 0.286

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 70.87 -5.17 22.69
LAB*LABa 70.87 -5.17 22.69
LAB*TCHa 62.5 23.27 102.85

relative CIELAB lab*
lab*lab 0.736 -0.116 0.487
lab*tch 0.625 0.25 0.286
lab*nch 0.0 0.25 0.286
relative Natural Colour (NC)
lab*trj 0.736 -0.116 0.486
lab*tce 0.625 0.25 0.286
lab*nce 0.0 0.25 0.286

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 47.02 -5.17 22.69
LAB*LABa 47.02 -5.17 22.69
LAB*TCHa 37.5 23.27 102.85

relative CIELAB lab*
lab*lab 0.493 -0.055 0.244
lab*tch 0.375 0.25 0.286
lab*nch 0.0 0.25 0.286
relative Natural Colour (NC)
lab*trj 0.493 -0.058 0.243
lab*tce 0.375 0.25 0.286
lab*nce 0.0 0.25 0.286

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.17 -5.16 22.68
LAB*LABa 23.17 -5.16 22.68
LAB*TCHa 25.00 0.01

relative CIELAB lab*
lab*lab 0.243 -0.055 0.244
lab*tch 0.125 0.25 0.286
lab*nch 0.0 0.25 0.286
relative Natural Colour (NC)
lab*trj 0.243 -0.058 0.243
lab*tce 0.125 0.25 0.286
lab*nce 0.0 0.25 0.286

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.00 0.01

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

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 94.03 -10.34 45.37
LAB*LABa 94.03 -10.34 45.37
LAB*TCHa 75.0 46.53 102.85

relative CIELAB lab*
lab*lab 0.985 -0.11 0.487
lab*tch 0.75 0.5 0.286
lab*nch 0.0 0.5 0.286
relative Natural Colour (NC)
lab*trj 0.985 -0.116 0.486
lab*tce 0.75 0.5 0.286
lab*nce 0.0 0.5 0.286

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 70.19 -10.34 45.38
LAB*LABa 70.19 -10.34 45.38
LAB*TCHa 50.0 46.54 102.85

relative CIELAB lab*
lab*lab 0.736 -0.11 0.487
lab*tch 0.5 0.5 0.286
lab*nch 0.0 0.5 0.286
relative Natural Colour (NC)
lab*trj 0.736 -0.116 0.486
lab*tce 0.5 0.5 0.286
lab*nce 0.0 0.5 0.286

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 46.34 -10.34 45.37
LAB*LABa 46.34 -10.34 45.37
LAB*TCHa 37.51 69.8 102.85

relative CIELAB lab*
lab*lab 0.728 -0.166 0.731
lab*tch 0.375 0.75 0.286
lab*nch 0.0 0.75 0.286
relative Natural Colour (NC)
lab*trj 0.728 -0.175 0.729
lab*tce 0.375 0.75 0.286
lab*nce 0.0 0.75 0.286

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (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 23.17 -10.34 45.37
LAB*LABa 23.17 -10.34 45.37
LAB*TCHa 25.01 46.53 102.85

relative CIELAB lab*
lab*lab 0.486 -0.11 0.487
lab*tch 0.25 0.5 0.286
lab*nch 0.0 0.5 0.286
relative Natural Colour (NC)
lab*trj 0.486 -0.116 0.486
lab*tce 0.25 0.5 0.286
lab*nce 0.0 0.5 0.286

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (1.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.00 0.01

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

$n^* = 0.50$

$n^* = 0.25$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.00$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

Output: Colorimetric Offset Reflective System ORS18

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

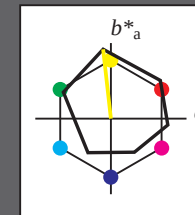
$lab \cdot tch$ and $lab \cdot nch$

D65: hue Y

LCH*Ma: 90 92 96

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

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

% Regularity

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

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

relative Inform. Technology (IT)
olv3* 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 0.75 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*TCHa 50.00 0.01

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

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.17 -0.23 0.26
LAB*LABa 23.17 0.0 0.0
LAB*TCHa 25.00 0.01

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
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*TCHa 0.00 0.01

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

$n^* = 1.0$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 94.14 -3.52 27.6
LAB*LABa 94.14 -3.52 27.6
LAB*TCHa 87.5 23.07 96.38

relative CIELAB lab*
lab*lab 0.984 -0.027 0.248
lab*tch 0.875 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*trj 0.984 -0.024 0.249
lab*tce 0.875 0.25 0.266
lab*nce 0.0 0.25 0.266

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

relative CIELAB lab*
lab*lab 0.734 -0.027 0.248
lab*tch 0.625 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*trj 0.734 -0.024 0.249
lab*tce 0.625 0.25 0.266
lab*nce 0.0 0.25 0.266

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

relative CIELAB lab*
lab*lab 0.484 -0.027 0.248
lab*tch 0.375 0.25 0.268
lab*nch 0.0 0.25 0.268
relative Natural Colour (NC)
lab*trj 0.484 -0.024 0.249
lab*tce 0.375 0.25 0.266
lab*nce 0.0 0.25 0.266

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.17 -2.78 25.0
LAB*LABa 23.17 -2.78 25.0
LAB*TCHa 25.01 46.15 96.38

relative CIELAB lab*
lab*lab 0.234 -0.027 0.248
lab*tch 0.125 0.25 0.268
lab*nch 0.0 0.25 0

Input: Colorimetric Television Luminous System TLS00

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

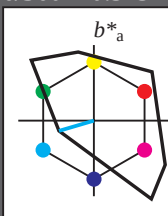
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 87 48 196

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



$u^*_{rel} = 158$

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

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

$g^*_{C,rel} = 12.03$

relative Inform. Technology (IT)
olv3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 0.0 0.0
LAB*Lab 95.41 0.0 0.0
LAB*TCa 99.99 0.01

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

relative Inform. Technology (IT)
olv3* 0.75 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 93.27 -11.53 -3.38
LAB*Lab 93.27 -11.53 -3.38
LAB*TCa 97.5 12.03 196.37

relative CIELAB lab*
lab*lab 0.978 -0.239 -0.069
lab*tch 0.875 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*trj 0.978 -0.239 -0.069
lab*tce 0.875 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*Lab 71.57 0.0 0.0
LAB*TCa 75.0 0.01

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

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (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 69.43 -11.53 -3.38
LAB*Lab 69.43 -11.53 -3.38
LAB*TCa 62.5 24.06 196.37

relative CIELAB lab*
lab*lab 0.955 -0.479 -0.14
lab*tch 0.75 0.5 0.545
lab*nch 0.0 0.5 0.545
relative Natural Colour (NC)
lab*trj 0.955 -0.479 -0.14
lab*tce 0.75 0.5 0.545
lab*nce 0.0 0.5 0.545

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 47.72 0.0 0.0
LAB*Lab 47.72 0.0 0.0
LAB*TCa 50.0 0.01

relative CIELAB lab*
lab*lab 0.625 0.25 0.545
lab*tch 0.625 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*trj 0.625 0.25 0.545
lab*tce 0.625 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.25 0.75 0.75 (1.0)
cmyn3* 0.75 0.25 0.25 (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 67.29 -23.08 -6.77
LAB*Lab 67.29 -23.08 -6.77
LAB*TCa 50.0 24.06 196.37

relative CIELAB lab*
lab*lab 0.933 -0.719 -0.21
lab*tch 0.625 0.75 0.545
lab*nch 0.0 0.75 0.545
relative Natural Colour (NC)
lab*trj 0.933 -0.719 -0.21
lab*tce 0.625 0.75 0.545
lab*nce 0.0 0.75 0.545

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* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 89.0 -34.61 -10.16
LAB*Lab 89.0 -34.61 -10.16
LAB*TCa 62.5 36.09 196.37

relative CIELAB lab*
lab*lab 0.911 -0.958 -0.281
lab*tch 0.5 1.0 0.545
lab*nch 0.0 1.0 0.545
relative Natural Colour (NC)
lab*trj 0.911 -0.958 -0.281
lab*tce 0.5 1.0 0.545
lab*nce 0.0 1.0 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.75 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olv4* 0.0 0.75 0.75 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 86.87 -46.15 -13.55
LAB*Lab 86.87 -46.15 -13.55
LAB*TCa 50.0 48.11 196.37

relative CIELAB lab*
lab*lab 0.911 -0.958 -0.281
lab*tch 0.5 1.0 0.545
lab*nch 0.0 1.0 0.545
relative Natural Colour (NC)
lab*trj 0.911 -0.958 -0.281
lab*tce 0.5 1.0 0.545
lab*nce 0.0 1.0 0.545

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 45.26 -11.53 -3.38
LAB*Lab 45.26 -11.53 -3.38
LAB*TCa 37.5 12.03 196.37

relative CIELAB lab*
lab*lab 0.478 -0.239 -0.069
lab*tch 0.375 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*trj 0.478 -0.239 -0.069
lab*tce 0.375 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.5 (1.0)
cmyn3* 0.5 0.0 0.0 (0.0)
olv4* 0.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 43.45 -23.07 -6.77
LAB*Lab 43.45 -23.07 -6.77
LAB*TCa 37.5 24.06 196.37

relative CIELAB lab*
lab*lab 0.683 -0.719 -0.21
lab*tch 0.375 0.75 0.545
lab*nch 0.0 0.75 0.545
relative Natural Colour (NC)
lab*trj 0.683 -0.719 -0.21
lab*tce 0.375 0.75 0.545
lab*nce 0.0 0.75 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.0 0.01

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* 0.0 0.25 0.25 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olv4* 0.0 0.25 0.25 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 21.73 -11.53 -3.38
LAB*Lab 21.73 -11.53 -3.38
LAB*TCa 12.5 12.03 196.37

relative CIELAB lab*
lab*lab 0.228 -0.239 -0.069
lab*tch 0.125 0.25 0.545
lab*nch 0.0 0.25 0.545
relative Natural Colour (NC)
lab*trj 0.228 -0.239 -0.069
lab*tce 0.125 0.25 0.545
lab*nce 0.0 0.25 0.545

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*Lab 0.03 0.0 0.0
LAB*TCa 0.0 0.01

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* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.47
LAB*Lab 18.02 0.5 0.47
LAB*TCa 0.0 0.01

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* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.47
LAB*Lab 18.02 0.5 0.47
LAB*TCa 0.0 0.01

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* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.47
LAB*Lab 18.02 0.5 0.47
LAB*TCa 0.0 0.01

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* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.47
LAB*Lab 18.02 0.5 0.47
LAB*TCa 0.0 0.01

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* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.47
LAB*Lab 18.02 0.5 0.47
LAB*TCa 0.0 0.01

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* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.47
LAB*Lab 18.02 0.5 0.47
LAB*TCa 0.0 0.01

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* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 0.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.5 0.47
LAB*Lab 18.02 0.5 0.47
LAB*TCa 0.0 0.01

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

Output: Colorimetric Offset Reflective System ORS18

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

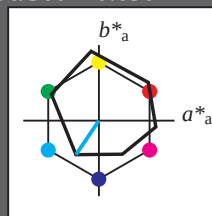
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



$u^*_{rel} = 93$

ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)
olv3* 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*Lab 95.41 0.0 0.0
LAB*TCa 99.99 0.01

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

relative Inform. Technology (IT)
olv3* 0.75 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*Lab 86.21 -8.39 -7.1
LAB*TCa 87.5 13.57 236.02

relative CIELAB lab*
lab*lab 0.881 -0.123 -0.216
lab*tch 0.875 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.881 -0.123 -0.216
lab*tce 0.875 0.25 0.656
lab*nce 0.0 0.25 0.656

relative Inform. Technology (IT)
olv3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olv4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*Lab 76.06 -0.61 3.44
LAB*TCa 75.0 0.01

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

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

relative CIELAB lab*
lab*lab 0.631 -0.139 -0.206
lab*tch 0.625 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.631 -0.139 -0.206
lab*tce 0.625 0.25 0.656
lab*nce 0.0 0.25 0.656

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* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 89.0 -34.61 -10.16
LAB*Lab 89.0 -34.61 -10.16
LAB*TCa 62.5 36.09 196.37

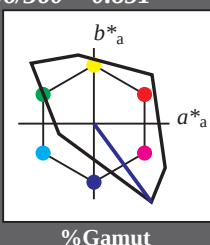
relative CIELAB lab*
lab*lab 0.911 -0.958 -0.281
lab*tch 0.5 1.0 0.545
lab*nch 0.0 1.0 0.545
relative Natural Colour (NC)
lab*trj 0.911 -0.958 -0.281
lab*tce 0.5 1.0 0.545
lab*nce 0.0 1.0 0.545

relative Inform. Technology (IT)
olv3* 0.25 0.25 0.25 (1.0)
cmyn3*

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 306/360 = 0.851$
 lab^*tch and lab^*nch

D65: hue V
LCH*Ma: 30 129 306
olv*Ma: 0.0 0.0 1.0
triangle lightness t^*



TLS00; adapted (a) CIELAB data					
	$L^*=L_a$	a^*	b^*	$C^*_{ab,a}$	$h^*_{ab,a}$
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

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

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

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (0.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olv4* 0.0 0.0 0.0 (0.0)
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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.826

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.826

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.826

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.826

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.826

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.826

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.826

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.826

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 71.57 0.0 0.0
LAB*LABa 71.57 0.0 0.0
LAB*TCHa 75.00 0.01

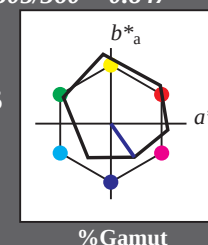
relative CIELAB lab*
lab*lab 0.83 0.148 -0.2
lab*tch 0.875 0.25 0.851
lab*nch 0.0 0.25 0.851
relative Natural Colour (NC)
lab*trj 0.83 0.115 -0.221
lab*tce 0.875 0.25 0.826
lab*nce 0.0 0.25 0.826

OE55-7, 5 step scales for constant CIELAB hue 306/360 = 0.851 (left)

Output: Colorimetric Offset Reflective System ORS18

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

D65: hue V
LCH*Ma: 26 54 305
olv*Ma: 0.0 0.0 1.0
triangle lightness t^*



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	34.76	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*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 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.875 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.75 0.112 -0.222
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.875 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.75 0.112 -0.222
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.875 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.75 0.112 -0.222
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.875 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.75 0.112 -0.222
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.875 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.75 0.112 -0.222
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.875 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.75 0.112 -0.222
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.875 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.75 0.112 -0.222
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.875 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.75 0.112 -0.222
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

relative Inform. Technology (IT)
olv3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.00 0.01

relative CIELAB lab*
lab*lab 0.75 0.75 0.75 (1.0)
lab*tch 0.875 0.25 0.847
lab*nch 0.0 0.25 0.847
relative Natural Colour (NC)
lab*trj 0.75 0.112 -0.222
lab*tce 0.875 0.25 0.824
lab*nce 0.0 0.25 0.824

5 step scales for constant CIELAB hue 305/360 = 0.847 (right)

BAM-test chart OE55; Colorimetric systems TLS00 & ORS18

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

input: $cmY0^* \text{ setcmYcolor}$

output: $cmY0^* / 000n^* \text{ setcmYcolor}$

Input: Colorimetric Television Luminous System TLS00

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

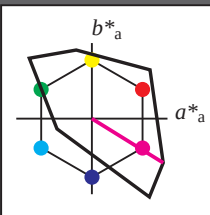
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



TLS00; adapted (a) CIELAB data

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

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

$g^*_{C,rel} = 27.73$

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0
LAB*LAB	95.41	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0
LAB*LAB	71.57	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0
LAB*LAB	47.72	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0
LAB*LAB	23.87	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0
LAB*LAB	0.03	0.0	0.0

relative CIELAB lab*

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

relative Natural Colour (NC)

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

$n^* = 1.0$

OE55-7, 5 step scales for constant CIELAB hue 328/360 = 0.912 (left)

Output: Colorimetric Offset Reflective System ORS18

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

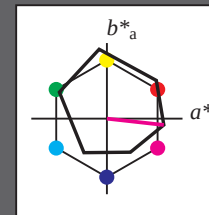
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

olv*Ma: 1.0 0.0 1.0

triangle lightness t^*



ORS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	95.41	-0.98	4.75
LAB*LAB	95.41	-0.98	4.75
LAB*LAB	95.41	-0.98	4.75
LAB*LAB	95.41	-0.98	4.75

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.75	0.75	0.75	(1.0)
olv3*	0.25	0.25	0.25	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	76.06	-0.61	3.44
LAB*LAB	76.06	-0.61	3.44
LAB*LAB	76.06	-0.61	3.44
LAB*LAB	76.06	-0.61	3.44

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.71	0.24	2.14
LAB*LAB	56.71	0.24	2.14
LAB*LAB	56.71	0.24	2.14
LAB*LAB	56.71	0.24	2.14

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

olv3*	0.25	0.25	0.25	(1.0)
olv3*	0.75	0.75	0.75	(0.0)
olv4*	1.0	1.0	1.0	(1.0)
olv4*	0.0	0.0	0.0	(0.0)
olv5*	1.0	1.0	1.0	(1.0)
olv5*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	37.84	0.13	0.58
LAB*LAB	37.84	0.13	0.58
LAB*LAB	37.84	0.13	0.58
LAB*LAB	37.84	0.13	0.58

relative CIELAB lab*

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

relative Natural Colour (NC)

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	18.02	0.5	0.47
LAB*LAB	18.02	0.5	0.47
LAB*LAB	18.02	0.5	0.47
LAB*LAB	18.02	0.5	0.47

relative CIELAB lab*

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

relative Natural Colour (NC)

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

$n^* = 1.0$

5 step scales for constant CIELAB hue 354/360 = 0.982 (right)

BAM-test chart OE55; Colorimetric systems TLS00 & ORS18

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

input: `cmv0* setcmvcolor`

output: `cmv0* / 000n* setcmvcolor`

Input: Colorimetric Television Luminous System TLS00

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

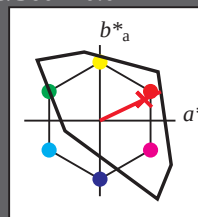
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 52 89 25

olv*Ma: 1.0 0.0 0.21

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

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

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

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

relative Inform. Technology (IT)					
olv3*	1.0	0.75	0.803	(1.0)	
olv4*	0.0	0.25	0.137	(0.0)	
olv5*	1.0	0.75	0.803	(1.0)	
olv6*	0.0	0.25	0.137	(0.0)	
olv7*	1.0	0.75	0.803	(1.0)	
olv8*	0.0	0.25	0.137	(0.0)	
olv9*	1.0	0.75	0.803	(1.0)	
olv10*	0.0	0.25	0.137	(0.0)	
olv11*	1.0	0.75	0.803	(1.0)	
olv12*	0.0	0.25	0.137	(0.0)	
olv13*	1.0	0.75	0.803	(1.0)	
olv14*	0.0	0.25	0.137	(0.0)	
olv15*	1.0	0.75	0.803	(1.0)	
olv16*	0.0	0.25	0.137	(0.0)	
olv17*	1.0	0.75	0.803	(1.0)	
olv18*	0.0	0.25	0.137	(0.0)	
olv19*	1.0	0.75	0.803	(1.0)	
olv20*	0.0	0.25	0.137	(0.0)	
olv21*	1.0	0.75	0.803	(1.0)	
olv22*	0.0	0.25	0.137	(0.0)	
olv23*	1.0	0.75	0.803	(1.0)	
olv24*	0.0	0.25	0.137	(0.0)	
olv25*	1.0	0.75	0.803	(1.0)	
olv26*	0.0	0.25	0.137	(0.0)	
olv27*	1.0	0.75	0.803	(1.0)	
olv28*	0.0	0.25	0.137	(0.0)	
olv29*	1.0	0.75	0.803	(1.0)	
olv30*	0.0	0.25	0.137	(0.0)	
olv31*	1.0	0.75	0.803	(1.0)	
olv32*	0.0	0.25	0.137	(0.0)	
olv33*	1.0	0.75	0.803	(1.0)	
olv34*	0.0	0.25	0.137	(0.0)	
olv35*	1.0	0.75	0.803	(1.0)	
olv36*	0.0	0.25	0.137	(0.0)	
olv37*	1.0	0.75	0.803	(1.0)	
olv38*	0.0	0.25	0.137	(0.0)	
olv39*	1.0	0.75	0.803	(1.0)	
olv40*	0.0	0.25	0.137	(0.0)	
olv41*	1.0	0.75	0.803	(1.0)	
olv42*	0.0	0.25	0.137	(0.0)	
olv43*	1.0	0.75	0.803	(1.0)	
olv44*	0.0	0.25	0.137	(0.0)	
olv45*	1.0	0.75	0.803	(1.0)	
olv46*	0.0	0.25	0.137	(0.0)	
olv47*	1.0	0.75	0.803	(1.0)	
olv48*	0.0	0.25	0.137	(0.0)	
olv49*	1.0	0.75	0.803	(1.0)	
olv50*	0.0	0.25	0.137	(0.0)	
olv51*	1.0	0.75	0.803	(1.0)	
olv52*	0.0	0.25	0.137	(0.0)	
olv53*	1.0	0.75	0.803	(1.0)	
olv54*	0.0	0.25	0.137	(0.0)	
olv55*	1.0	0.75	0.803	(1.0)	
olv56*	0.0	0.25	0.137	(0.0)	
olv57*	1.0	0.75	0.803	(1.0)	
olv58*	0.0	0.25	0.137	(0.0)	
olv59*	1.0	0.75	0.803	(1.0)	
olv60*	0.0	0.25	0.137	(0.0)	
olv61*	1.0	0.75	0.803	(1.0)	
olv62*	0.0	0.25	0.137	(0.0)	
olv63*	1.0	0.75	0.803	(1.0)	
olv64*	0.0	0.25	0.137	(0.0)	
olv65*	1.0	0.75	0.803	(1.0)	
olv66*	0.0	0.25	0.137	(0.0)	
olv67*	1.0	0.75	0.803	(1.0)	
olv68*	0.0	0.25	0.137	(0.0)	
olv69*	1.0	0.75	0.803	(1.0)	
olv70*	0.0	0.25	0.137	(0.0)	
olv71*	1.0	0.75	0.803	(1.0)	
olv72*	0.0	0.25	0.137	(0.0)	
olv73*	1.0	0.75	0.803	(1.0)	
olv74*	0.0	0.25	0.137	(0.0)	
olv75*	1.0	0.75	0.803	(1.0)	
olv76*	0.0	0.25	0.137	(0.0)	
olv77*	1.0	0.75	0.803	(1.0)	
olv78*	0.0	0.25	0.137	(0.0)	
olv79*	1.0	0.75	0.803	(1.0)	
olv80*	0.0	0.25	0.137	(0.0)	
olv81*	1.0	0.75	0.803	(1.0)	
olv82*	0.0	0.25	0.137	(0.0)	
olv83*	1.0	0.75	0.803	(1.0)	
olv84*	0.0	0.25	0.137	(0.0)	
olv85*	1.0	0.75	0.803	(1.0)	
olv86*	0.0	0.25	0.137	(0.0)	
olv87*	1.0	0.75	0.803	(1.0)	
olv88*	0.0	0.25	0.137	(0.0)	
olv89*	1.0	0.75	0.803	(1.0)	
olv90*	0.0	0.25	0.137	(0.0)	
olv91*	1.0	0.75	0.803	(1.0)	
olv92*	0.0	0.25	0.137	(0.0)	
olv93*	1.0	0.75	0.803	(1.0)	
olv94*	0.0	0.25	0.137	(0.0)	
olv95*	1.0	0.75	0.803	(1.0)	
olv96*	0.0	0.25	0.137	(0.0)	
olv97*	1.0	0.75	0.803	(1.0)	
olv98*	0.0	0.25	0.137	(0.0)	
olv99*	1.0	0.75	0.803	(1.0)	
olv100*	0.0	0.25	0.137	(0.0)	

relative Inform. Technology (IT)					
olv3*	1.0	0.75	0.803	(1.0)	
olv4*	0.0	0.25	0.137	(0.0)	
olv5*	1.0	0.75	0.803	(1.0)	
olv6*	0.0	0.25	0.137	(0.0)	
olv7*	1.0	0.75	0.803	(1.0)	
olv8*	0.0	0.25	0.137	(0.0)	
olv9*	1.0	0.75	0.803	(1.0)	
olv10*	0.0	0.25	0.137	(0.0)	
olv11*	1.0	0.75	0.803	(1.0)	
olv12*	0.0	0.25	0.137	(0.0)	
olv13*	1.0	0.75	0.803	(1.0)	
olv14*	0.0	0.25	0.137	(0.0)	
olv15*	1.0	0.75	0.803	(1.0)	
olv16*	0.0	0.25	0.137	(0.0)	
olv17*	1.0	0.75	0.803	(1.0)	
olv1					

Input: Colorimetric Television Luminous System TLS00

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

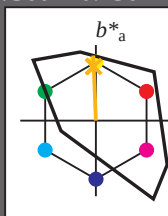
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0

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

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

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

1.00

0.75

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

0.25

0.50

0.75

1.00

chromaticness c^*

$n^* = 1.0$

Output: Colorimetric Offset Reflective System ORS18

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

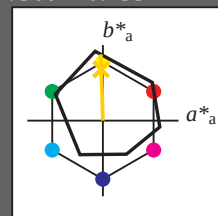
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

olv*Ma: 1.0 0.9 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

0.25

0.50

0.75

1.00

chromaticness c^*

$n^* = 1.0$

OE55-7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.255 (right)

BAM-test chart OE55; Colorimetric systems TLS00 & ORS18

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

input: `cmv0* setcmvcolor`

output: `cmv0* / 000n* setcmvcolor`

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 162/360 = 0.451$

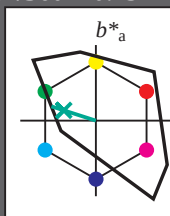
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 86 62 162

olv*Ma: 0.0 1.0 0.65

triangle lightness t^*



% Gamut

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

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

$g^*_{C,rel} = 35$

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 1.0 0.913 (1.0)
cmyn3* 0.25 0.0 0.087 (0.0)
olv4* 0.75 1.0 0.913 (1.0)
cmyn4* 0.25 0.0 0.087 (0.0)
standard and adapted CIELAB
LAB*LAB 92.99 -14.7 4.71
LAB*LABa 92.99 -14.7 4.71
LAB*LABb 87.5 15.4 162.24
LAB*LABc 87.5 15.4 162.24
relative CIELAB lab*
lab*lab 0.975 -0.237 0.076
lab*tch 0.875 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.975 -0.249 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.5 1.0 0.826 (1.0)
cmyn3* 0.5 0.0 0.174 (0.0)
olv4* 0.5 1.0 0.826 (1.0)
cmyn4* 0.5 0.0 0.174 (0.0)
standard and adapted CIELAB
LAB*LAB 90.57 -29.42 9.43
LAB*LABa 90.57 -29.42 9.43
LAB*LABb 75.0 30.9 162.23
LAB*LABc 75.0 30.9 162.23
relative CIELAB lab*
lab*lab 0.949 -0.475 0.153
lab*tch 0.75 0.5 0.451
lab*nch 0.0 0.5 0.451
relative Natural Colour (NC)
lab*trj 0.949 -0.499 0.0
lab*tce 0.75 0.5 0.3
lab*nce 0.0 0.5 0.3

relative Inform. Technology (IT)
olv3* 0.25 1.0 0.653 (1.0)
cmyn3* 0.25 0.0 0.347 (0.0)
olv4* 0.25 1.0 0.653 (1.0)
cmyn4* 0.25 0.0 0.347 (0.0)
standard and adapted CIELAB
LAB*LAB 88.16 -44.13 14.15
LAB*LABa 88.16 -44.13 14.15
LAB*LABb 62.5 46.35 162.23
LAB*LABc 62.5 46.35 162.23
relative CIELAB lab*
lab*lab 0.924 -0.713 0.229
lab*tch 0.625 0.75 0.451
lab*nch 0.0 0.75 0.451
relative Natural Colour (NC)
lab*trj 0.924 -0.749 0.0
lab*tce 0.625 0.75 0.3
lab*nce 0.0 0.75 0.3

relative Inform. Technology (IT)
olv3* 0.0 1.0 0.5 (1.0)
cmyn3* 1.0 0.0 0.5 (0.0)
olv4* 1.0 1.0 0.5 (0.5)
cmyn4* 0.0 0.0 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 85.74 -58.84 18.87
LAB*LABa 85.74 -58.84 18.87
LAB*LABb 50.0 61.8 162.23
LAB*LABc 50.0 61.8 162.23
relative CIELAB lab*
lab*lab 0.899 -0.951 0.305
lab*tch 0.5 1.0 0.451
lab*nch 0.0 1.0 0.451
relative Natural Colour (NC)
lab*trj 0.899 -0.999 0.0
lab*tce 0.5 1.0 0.3
lab*nce 0.0 1.0 0.3

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness c^*

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 0.0 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 42.88 -29.42 9.43
LAB*LABa 42.88 -29.42 9.43
LAB*LABb 23.87 0.0 0.0
LAB*LABc 23.87 0.0 0.0
relative CIELAB lab*
lab*lab 0.425 -0.249 0.0
lab*tch 0.325 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.425 -0.249 0.0
lab*tce 0.325 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.338 (1.0)
cmyn3* 0.75 0.5 0.587 (0.0)
olv4* 0.75 1.0 0.913 (1.0)
cmyn4* 0.25 0.0 0.087 (0.0)
standard and adapted CIELAB
LAB*LAB 45.15 -14.71 4.72
LAB*LABa 45.15 -14.71 4.72
LAB*LABb 23.87 0.0 0.0
LAB*LABc 23.87 0.0 0.0
relative CIELAB lab*
lab*lab 0.475 -0.237 0.076
lab*tch 0.375 0.25 0.451
lab*nch 0.0 0.25 0.451
relative Natural Colour (NC)
lab*trj 0.475 -0.249 0.0
lab*tce 0.375 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.174 (1.0)
cmyn3* 1.0 0.75 0.837 (0.0)
olv4* 0.75 1.0 0.913 (1.0)
cmyn4* 0.25 0.0 0.087 (0.0)
standard and adapted CIELAB
LAB*LAB 42.88 -29.42 9.43
LAB*LABa 42.88 -29.42 9.43
LAB*LABb 23.87 0.0 0.0
LAB*LABc 23.87 0.0 0.0
relative CIELAB lab*
lab*lab 0.449 -0.475 0.153
lab*tch 0.25 0.5 0.451
lab*nch 0.0 0.5 0.451
relative Natural Colour (NC)
lab*trj 0.449 -0.499 0.0
lab*tce 0.25 0.5 0.3
lab*nce 0.0 0.5 0.3

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 0.0 0.0 0.0
LAB*LABc 0.0 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 1.0 0.0 0.0

relative Inform. Technology (IT)
olv3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olv4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*LABb 0.03 0.0 0.0
LAB*LABc 0.03 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 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 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*LABb 0.03 0.0 0.0
LAB*LABc 0.03 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 1.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
lab*nce 1.0 0.0 0.0

$n^* = 1.0$

OE55-7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

BAM-test chart OE55; Colorimetric systems TLS00 & ORS18

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

Output: Colorimetric Offset Reflective System ORS18

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

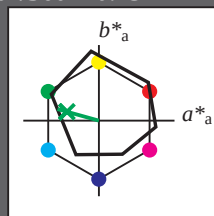
$lab \cdot tch$ and $lab \cdot nch$

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25

triangle lightness t^*



% Gamut

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 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 1.0 0.812 (1.0)
cmyn3* 0.25 0.0 0.188 (0.0)
olv4* 0.75 1.0 0.812 (1.0)
cmyn4* 0.25 0.0 0.188 (0.0)
standard and adapted CIELAB
LAB*LAB 84.75 -14.48 7.85
LAB*LABa 84.75 -14.48 7.85
LAB*LABb 87.5 14.23 164.46
LAB*LABc 87.5 14.23 164.46
relative CIELAB lab*
lab*lab 0.862 -0.24 0.067
lab*tch 0.875 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.862 -0.249 0.0
lab*tce 0.875 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.5 0.75 0.5 (1.0)
cmyn3* 0.5 0.25 0.25 (0.0)
olv4* 1.0 1.0 1.0 (0.5)
cmyn4* 0.0 0.0 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 76.06 -0.61 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 75.0 0.0 0.0
LAB*LABc 75.0 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 0.0 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* 0.25 0.5 0.338 (1.0)
cmyn3* 0.75 0.25 0.587 (0.0)
olv4* 0.75 1.0 0.913 (1.0)
cmyn4* 0.25 0.0 0.087 (0.0)
standard and adapted CIELAB
LAB*LAB 65.41 -14.11 6.35
LAB*LABa 65.41 -14.11 6.35
LAB*LABb 65.41 -13.7 3.81
LAB*LABc 65.41 -13.7 3.81
relative CIELAB lab*
lab*lab 0.725 -0.499 0.0
lab*tch 0.725 0.5 0.3
lab*nch 0.0 0.5 0.3

relative Inform. Technology (IT)
olv3* 0.0 0.75 0.188 (1.0)
cmyn3* 0.75 0.25 0.627 (0.0)
olv4* 0.5 1.0 0.623 (0.5)
cmyn4* 0.5 0.0 0.377 (0.5)
standard and adapted CIELAB
LAB*LAB 54.76 -27.61 9.64
LAB*LABa 54.76 -27.61 9.64
LAB*LABb 50.0 28.46 164.45
LAB*LABc 50.0 28.46 164.45
relative CIELAB lab*
lab*lab 0.587 -0.749 0.0
lab*tch 0.625 0.75 0.3
lab*nch 0.0 0.75 0.3

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 1.0 0.0 (0.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 52.8 -54.81 15.26
LAB*LABa 52.8 -54.81 15.26
LAB*LABb 50.0 56.91 164.45
LAB*LABc 50.0 56.91 164.45
relative CIELAB lab*
lab*lab 0.45 -0.962 0.268
lab*tch 0.5 1.0 0.457
lab*nch 0.0 1.0 0.457
relative Natural Colour (NC)
lab*trj 0.45 -0.999 0.0
lab*tce 0.5 1.0 0.3
lab*nce 0.0 1.0 0.3

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.25$

blackness n^*

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

chromaticness c^*

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 0.0 0.5 (0.5)
standard and adapted CIELAB
LAB*LAB 35.41 -0.13 3.54
LAB*LABa 35.41 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 0.362 -0.24 0.067
lab*tch 0.375 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.362 -0.249 0.0
lab*tce 0.375 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.0 0.5 0.338 (1.0)
cmyn3* 0.75 0.5 0.587 (0.0)
olv4* 0.75 1.0 0.913 (1.0)
cmyn4* 0.25 0.0 0.087 (0.0)
standard and adapted CIELAB
LAB*LAB 35.41 -0.13 3.54
LAB*LABa 35.41 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 0.362 -0.24 0.067
lab*tch 0.375 0.25 0.457
lab*nch 0.0 0.25 0.457
relative Natural Colour (NC)
lab*trj 0.362 -0.249 0.0
lab*tce 0.375 0.25 0.3
lab*nce 0.0 0.25 0.3

relative Inform. Technology (IT)
olv3* 0.0 0.25 0.174 (1.0)
cmyn3* 1.0 0.75 0.837 (0.0)
olv4* 0.75 1.0 0.913 (1.0)
cmyn4* 0.25 0.0 0.087 (0.0)
standard and adapted CIELAB
LAB*LAB 35.41 -0.13 3.54
LAB*LABa 35.41 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 0.337 -0.499 0.0
lab*tch 0.337 0.5 0.3
lab*nch 0.0 0.5 0.3

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 0.0 0.0 0.0
LAB*LABc 0.0 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 1.0 0.0 0.0

$n^* = 1.0$

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

input: `cmv0* setcmvcolor`

output: `cmv0* / 000n* setcmvcolor`

