

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 30/360 = 0.083$

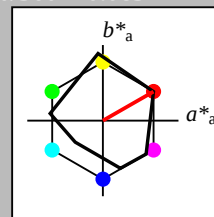
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.41	-0.97	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*TCa	99.99	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	95.41	-0.97	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*TCa	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*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.06	-0.6	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*TCa	75.0	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*TCa	75.0	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*lab	0.75	0.0	0.0	
lab*tch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(0.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	56.71	-0.23	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*TCa	55.0	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*TCa	55.0	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*lab	0.5	0.0	0.0	
lab*tch	0.5	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	37.36	0.3	0.83	
LAB*LAB	37.36	0.0	0.0	
LAB*TCa	25.0	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	37.36	0.3	0.83	
LAB*LAB	37.36	0.0	0.0	
LAB*TCa	25.0	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*lab	0.25	0.0	0.0	
lab*tch	0.25	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.0	(1.0)
cmyn3*	1.0	1.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCa	0.01	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	18.02	0.0	0.46	
LAB*LAB	18.02	0.0	0.0	
LAB*TCa	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*lab	0.0	0.0	0.0	
lab*tch	0.0	0.0	0.0	
lab*nch	1.0	0.0	0.0	

$n^* = 1.0$

MRS18; adapted (a) CIELAB data

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

RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)

olvi3*	1.0	0.5	0.5	(1.0)
cmyn3*	0.0	0.5	0.5	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	72.52	32.93	22.4	
LAB*LAB	72.52	32.93	22.4	
LAB*TCa	75.0	38.58	29.82	

standard and adapted CIELAB

LAB*LAB	72.52	32.93	22.4	
LAB*LAB	72.52	32.93	22.4	
LAB*TCa	75.0	38.58	29.82	

relative CIELAB lab*

lab*lab	0.704	0.434	0.249	
lab*tch	0.704	0.434	0.249	
lab*nch	0.0	0.5	0.5	

relative Natural Colour (NC)

lab*lab	0.704	0.434	0.249	
lab*tch	0.704	0.434	0.249	
lab*nch	0.0	0.5	0.5	

relative Inform. Technology (IT)

olvi3*	0.75	0.25	0.25	(1.0)
cmyn3*	0.25	0.75	0.75	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	61.07	49.89	31.22	
LAB*LAB	61.07	49.89	31.22	
LAB*TCa	62.5	57.87	29.82	

standard and adapted CIELAB

LAB*LAB	61.07	49.89	31.22	
LAB*LAB	61.07	49.89	31.22	
LAB*TCa	62.5	57.87	29.82	

relative CIELAB lab*

lab*lab	0.559	0.651	0.373	
lab*tch	0.559	0.651	0.373	
lab*nch	0.0	0.75	0.75	

relative Natural Colour (NC)

lab*lab	0.559	0.651	0.373	
lab*tch	0.559	0.651	0.373	
lab*nch	0.0	0.75	0.75	

relative Inform. Technology (IT)

olvi3*	0.5	0.0	0.0	(1.0)
cmyn3*	0.5	0.75	0.75	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	49.63	66.96	38.37	
LAB*LAB	49.63	66.96	38.37	
LAB*TCa	50.0	77.18	29.82	

standard and adapted CIELAB

LAB*LAB	49.63	66.96	38.37	
LAB*LAB	49.63	66.96	38.37	
LAB*TCa	50.0	77.18	29.82	

relative CIELAB lab*

lab*lab	0.306	0.651	0.373	
lab*tch	0.306	0.651	0.373	
lab*nch	0.0	0.75	0.75	

relative Natural Colour (NC)

lab*lab	0.306	0.651	0.373	
lab*tch	0.306	0.651	0.373	
lab*nch	0.0	0.75	0.75	

relative Inform. Technology (IT)

olvi3*	0.25	0.0	0.0	(1.0)
cmyn3*	0.75	0.0	0.0	(0.0)
olvi4*	1.0	0.5	0.5	(1.0)
cmyn4*	0.0	0.5	0.5	(0.0)
LAB*LAB	33.82	33.47	19.18	
LAB*LAB	33.82	33.47	19.18	
LAB*TCa	25.01	38.58	29.82	

standard and adapted CIELAB

LAB*LAB	33.82	33.47	19.18	
LAB*LAB	33.82	33.47	19.18	
LAB*TCa	25.01	38.58	29.82	

relative CIELAB lab*

lab*lab	0.102	0.217	0.124	
lab*tch	0.102	0.217	0.124	
lab*nch	0.0	0.5	0.5	

relative Natural Colour (NC)

lab*lab	0.102	0.217	0.124	
lab*tch	0.102	0.217	0.124	
lab*nch	0.0	0.5	0.5	

$n^* = 0.50$

Output: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

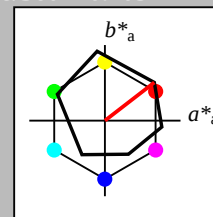
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
cmyn3*	0.0	0.0	0.0	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	95.41	-0.97	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*TCa	99.99	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	95.41	-0.97	4.75	
LAB*LAB	95.41	0.0	0.0	
LAB*TCa	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*lab	1.0	0.0	0.0	
lab*tch	1.0	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.75	0.75	0.75	(1.0)
cmyn3*	0.25	0.25	0.25	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	76.06	-0.6	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*TCa	75.0	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	76.06	-0.6	3.44	
LAB*LAB	76.06	0.0	0.0	
LAB*TCa	75.0	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*lab	0.75	0.0	0.0	
lab*tch	0.75	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(0.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)
LAB*LAB	56.71	-0.23	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*TCa	55.0	0.01	0.0	

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14	
LAB*LAB	56.71	0.0	0.0	
LAB*TCa	55.0	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*lab	0.5	0.0	0.0	
lab*tch	0.5	0.0	0.0	
lab*nch	0.0	0.0	0.0	

relative Inform. Technology (IT)

olvi3*	0.25	0.25	0.25	(1.0)
cmyn3*	0.75	0.75	0.75	(0.0)
olvi4*	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	0.13	0.83
LAB*LABa	37.36	0.0	0.0
LAB*TCa	25.0	0.01	–

relative CIELAB lab*

lab*lab	0.25	0.0	0.0
lab*tch	0.25	0.0	0.0
lab*nch	0.75	0.0	–

relative Natural Colour (NC)

lab*lab	0.25	0.0	0.0
lab*tch	0.25	0.0	–
lab*nch	0.75	0.0	–

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 218/360 = 0.605$

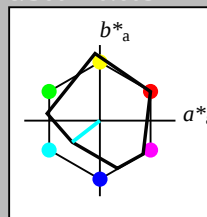
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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 -0.97 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)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 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 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01

relative CIELAB lab*
lab*lab 0.837 -0.196 -0.153
lab*tch 0.875 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.837 -0.176 -0.176
lab*tce 0.875 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01

relative CIELAB lab*
lab*lab 0.587 -0.196 -0.153
lab*tch 0.625 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.587 -0.176 -0.176
lab*tce 0.625 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.13 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01

relative CIELAB lab*
lab*lab 0.337 -0.196 -0.153
lab*tch 0.375 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.337 -0.176 -0.176
lab*tce 0.375 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

MRS18; adapted (a) CIELAB data

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

RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 70.21 -18.77 -11.17
LAB*LABa 70.21 -18.27 -14.23
LAB*TCHa 75.0 23.17 217.91

relative CIELAB lab*
lab*lab 0.674 -0.393 -0.306
lab*tch 0.75 0.5 0.605
lab*nch 0.0 0.5 0.605
relative Natural Colour (NC)
lab*trj 0.674 -0.353 -0.352
lab*tce 0.75 0.5 0.625
lab*nce 0.0 0.5 0.625

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 0.5 0.5 0.5 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 50.87 -18.4 -12.48
LAB*LABa 50.87 -18.29 -14.23
LAB*TCHa 50.0 23.18 217.91

relative CIELAB lab*
lab*lab 0.512 -0.591 -0.46
lab*tch 0.625 0.75 0.605
lab*nch 0.0 0.75 0.605
relative Natural Colour (NC)
lab*trj 0.512 -0.529 -0.529
lab*tce 0.625 0.75 0.625
lab*nce 0.0 0.75 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 45.03 -36.57 -27.11
LAB*LABa 45.03 -36.36 -28.47
LAB*TCHa 50.0 46.35 217.91

relative CIELAB lab*
lab*lab 0.349 -0.788 -0.613
lab*tch 0.5 0.0 0.605
lab*nch 0.0 0.0 0.605
relative Natural Colour (NC)
lab*trj 0.349 -0.706 -0.706
lab*tce 0.5 0.0 0.625
lab*nce 0.0 0.0 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 38.28 -27.3 -20.44
LAB*LABa 38.28 -27.42 -21.35
LAB*TCHa 37.51 34.76 217.91

relative CIELAB lab*
lab*lab 0.262 -0.591 -0.46
lab*tch 0.375 0.75 0.605
lab*nch 0.0 0.75 0.605
relative Natural Colour (NC)
lab*trj 0.262 -0.529 -0.529
lab*tce 0.375 0.75 0.625
lab*nce 0.0 0.75 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 31.52 -18.27 -14.23
LAB*LABa 31.52 -18.27 -14.23
LAB*TCHa 25.01 23.17 217.91

relative CIELAB lab*
lab*lab 0.175 -0.393 -0.306
lab*tch 0.25 0.5 0.605
lab*nch 0.0 0.5 0.605
relative Natural Colour (NC)
lab*trj 0.175 -0.353 -0.352
lab*tce 0.25 0.5 0.625
lab*nce 0.0 0.5 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 24.77 -9.13 -7.11
LAB*LABa 24.77 -9.13 -7.11
LAB*TCHa 12.5 23.17 217.91

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.087 -0.196 -0.153
lab*tch 0.125 0.25 0.605
lab*nch 0.0 0.25 0.605
relative Natural Colour (NC)
lab*trj 0.087 -0.176 -0.176
lab*tce 0.125 0.25 0.625
lab*nce 0.0 0.25 0.625

Output: Colorimetric Reflective System ORS18

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

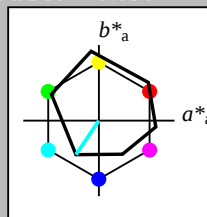
lab^*tch and lab^*nch

D65: hue C

LCH*Ma: 59 54 236

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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 -0.97 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)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 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 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01

relative CIELAB lab*
lab*lab 0.881 -0.139 -0.206
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 0.667
lab*nce 0.0 0.25 0.667

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01

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 -0.123 -0.216
lab*tce 0.625 0.25 0.667
lab*nce 0.0 0.25 0.667

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 -0.13 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01

relative CIELAB lab*
lab*lab 0.381 -0.139 -0.206
lab*tch 0.375 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.381 -0.123 -0.216
lab*tce 0.375 0.25 0.667
lab*nce 0.0 0.25 0.667

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.131 -0.139 -0.206
lab*tch 0.125 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.131 -0.123 -0.216
lab*tce 0.125 0.25 0.667
lab*nce 0.0 0.25 0.667

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.131 -0.139 -0.206
lab*tch 0.125 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.131 -0.123 -0.216
lab*tce 0.125 0.25 0.667
lab*nce 0.0 0.25 0.667

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.131 -0.139 -0.206
lab*tch 0.125 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.131 -0.123 -0.216
lab*tce 0.125 0.25 0.667
lab*nce 0.0 0.25 0.667

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01

relative CIELAB lab*
lab*lab 0.131 -0.139 -0.206
lab*tch 0.125 0.25 0.656
lab*nch 0.0 0.25 0.656
relative Natural Colour (NC)
lab*trj 0.131 -0.123 -0.216
lab*tce 0.125 0.25 0.667
lab*nce 0.0 0.25 0.667

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.0 0.0 (0.0)
olvi4* 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 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 290/360 = 0.806$

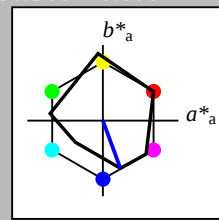
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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 -0.97 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 -
relative Natural Colour (NC)
lab*trj 1.0 0.0 0.0
lab*tce 1.0 0.0 -
lab*nce 0.0 0.0 -

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 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 -0.6 3.44
LAB*Lab 76.06 0.0 0.0
LAB*TCa 75.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 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 -0.23 2.14
LAB*Lab 56.71 0.0 0.0
LAB*TCa 50.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.67 0.13 0.83
LAB*Lab 37.67 0.0 0.0
LAB*TCa 25.00 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 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 0.46
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 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 0.46
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.72 5.1 -11.98
LAB*Lab 80.72 5.79 -15.75
LAB*TCa 87.5 16.79 290.19

relative CIELAB lab*
lab*lab 0.81 0.086 -0.234
lab*tch 0.875 0.25 0.806
lab*nch 0.0 0.25 0.806
relative Natural Colour (NC)
lab*trj 0.81 0.086 -0.24
lab*tce 0.875 0.25 0.791
lab*nce 0.0 0.25 0.806

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 61.37 5.47 -13.29
LAB*Lab 61.37 5.8 -15.75
LAB*TCa 62.5 16.8 290.19

relative CIELAB lab*
lab*lab 0.5 0.086 -0.234
lab*tch 0.625 0.25 0.806
lab*nch 0.0 0.25 0.806
relative Natural Colour (NC)
lab*trj 0.5 0.086 -0.241
lab*tce 0.625 0.25 0.791
lab*nce 0.0 0.25 0.806

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 46.68 11.59 -31.52
LAB*Lab 46.68 11.59 -31.52
LAB*TCa 50.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.3 0.173 -0.468
lab*tch 0.5 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.3 0.173 -0.482
lab*tce 0.5 0.0 0.791
lab*nce 0.0 0.0 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.92 31.35
LAB*Lab 27.34 11.92 31.35
LAB*TCa 25.01 33.59 290.19

relative CIELAB lab*
lab*lab 0.12 0.173 -0.468
lab*tch 0.25 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.12 0.173 -0.482
lab*tce 0.25 0.0 0.791
lab*nce 0.0 0.0 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.29 -31.51
LAB*Lab 66.03 11.29 -31.51
LAB*TCa 75.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.62 0.173 -0.468
lab*tch 0.75 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.62 0.173 -0.482
lab*tce 0.75 0.0 0.791
lab*nce 0.0 0.0 0.806

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.34 17.25 -45.49
LAB*Lab 51.34 17.25 -45.49
LAB*TCa 62.5 30.38 290.19

relative CIELAB lab*
lab*lab 0.431 0.259 -0.703
lab*tch 0.625 0.75 0.806
lab*nch 0.0 0.75 0.806
relative Natural Colour (NC)
lab*trj 0.431 0.259 -0.724
lab*tce 0.625 0.75 0.791
lab*nce 0.0 0.75 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.18 -63.03
LAB*Lab 36.65 23.18 -63.03
LAB*TCa 50.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.241 0.345 -0.937
lab*tch 0.5 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.241 0.345 -0.965
lab*tce 0.5 0.0 0.791
lab*nce 0.0 0.0 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 32.0 17.62 -46.8
LAB*Lab 32.0 17.62 -46.8
LAB*TCa 50.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.181 0.259 -0.703
lab*tch 0.375 0.75 0.806
lab*nch 0.0 0.75 0.806
relative Natural Colour (NC)
lab*trj 0.181 0.259 -0.724
lab*tce 0.375 0.75 0.791
lab*nce 0.0 0.75 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.92 31.35
LAB*Lab 27.34 11.92 31.35
LAB*TCa 25.01 33.59 290.19

relative CIELAB lab*
lab*lab 0.12 0.173 -0.468
lab*tch 0.25 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.12 0.173 -0.482
lab*tce 0.25 0.0 0.791
lab*nce 0.0 0.0 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.29 -31.51
LAB*Lab 66.03 11.29 -31.51
LAB*TCa 75.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.62 0.173 -0.468
lab*tch 0.75 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.62 0.173 -0.482
lab*tce 0.75 0.0 0.791
lab*nce 0.0 0.0 0.806

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.34 17.25 -45.49
LAB*Lab 51.34 17.25 -45.49
LAB*TCa 62.5 30.38 290.19

relative CIELAB lab*
lab*lab 0.431 0.259 -0.703
lab*tch 0.625 0.75 0.806
lab*nch 0.0 0.75 0.806
relative Natural Colour (NC)
lab*trj 0.431 0.259 -0.724
lab*tce 0.625 0.75 0.791
lab*nce 0.0 0.75 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.18 -63.03
LAB*Lab 36.65 23.18 -63.03
LAB*TCa 50.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.241 0.345 -0.937
lab*tch 0.5 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.241 0.345 -0.965
lab*tce 0.5 0.0 0.791
lab*nce 0.0 0.0 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 32.0 17.62 -46.8
LAB*Lab 32.0 17.62 -46.8
LAB*TCa 50.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.181 0.259 -0.703
lab*tch 0.375 0.75 0.806
lab*nch 0.0 0.75 0.806
relative Natural Colour (NC)
lab*trj 0.181 0.259 -0.724
lab*tce 0.375 0.75 0.791
lab*nce 0.0 0.75 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.92 31.35
LAB*Lab 27.34 11.92 31.35
LAB*TCa 25.01 33.59 290.19

relative CIELAB lab*
lab*lab 0.12 0.173 -0.468
lab*tch 0.25 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.12 0.173 -0.482
lab*tce 0.25 0.0 0.791
lab*nce 0.0 0.0 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.46
LAB*Lab 18.02 0.0 0.0
LAB*TCa 0.01 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.29 -31.51
LAB*Lab 66.03 11.29 -31.51
LAB*TCa 75.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.62 0.173 -0.468
lab*tch 0.75 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.62 0.173 -0.482
lab*tce 0.75 0.0 0.791
lab*nce 0.0 0.0 0.806

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.34 17.25 -45.49
LAB*Lab 51.34 17.25 -45.49
LAB*TCa 62.5 30.38 290.19

relative CIELAB lab*
lab*lab 0.431 0.259 -0.703
lab*tch 0.625 0.75 0.806
lab*nch 0.0 0.75 0.806
relative Natural Colour (NC)
lab*trj 0.431 0.259 -0.724
lab*tce 0.625 0.75 0.791
lab*nce 0.0 0.75 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.18 -63.03
LAB*Lab 36.65 23.18 -63.03
LAB*TCa 50.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.241 0.345 -0.937
lab*tch 0.5 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.241 0.345 -0.965
lab*tce 0.5 0.0 0.791
lab*nce 0.0 0.0 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 32.0 17.62 -46.8
LAB*Lab 32.0 17.62 -46.8
LAB*TCa 50.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.181 0.259 -0.703
lab*tch 0.375 0.75 0.806
lab*nch 0.0 0.75 0.806
relative Natural Colour (NC)
lab*trj 0.181 0.259 -0.724
lab*tce 0.375 0.75 0.791
lab*nce 0.0 0.75 0.806

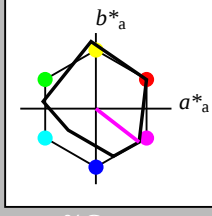
relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.92 31.35
LAB*Lab 27.34 11.92 31.35
LAB*TCa 25.01 33.59 290.19

relative CIELAB lab*
lab*lab 0.12 0.173 -0.468
lab*tch 0.25 0.0 0.806
lab*nch 0.0 0.0 0.806
relative Natural Colour (NC)
lab*trj 0.12 0.173 -0.482
lab*tce 0.25 0.0 0.791
lab*nce 0.0 0.0 0.806

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 322/360 = 0.895$
 lab^*tch and lab^*nch

D65: hue B50R
LCH*Ma: 35 72 322
rgb*Ma: 1.0 0.0 1.0
triangle lightness t^*



MRS18; adapted (a) CIELAB data					
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

%Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	0.0	(0.0)
olvi11*	1.0	1.0	1.0	1.0	(1.0)
olvi12*	0.0	0.0	0.0	0.0	(0.0)
olvi13*	1.0	1.0	1.0	1.0	(1.0)
olvi14*	0.0	0.0	0.0	0.0	(0.0)
olvi15*	1.0	1.0	1.0	1.0	(1.0)
olvi16*	0.0	0.0	0.0	0.0	(0.0)
olvi17*	1.0	1.0	1.0	1.0	(1.0)
olvi18*	0.0	0.0	0.0	0.0	(0.0)
olvi19*	1.0	1.0	1.0	1.0	(1.0)
olvi20*	0.0	0.0	0.0	0.0	(0.0)
olvi21*	1.0	1.0	1.0	1.0	(1.0)
olvi22*	0.0	0.0	0.0	0.0	(0.0)
olvi23*	1.0	1.0	1.0	1.0	(1.0)
olvi24*	0.0	0.0	0.0	0.0	(0.0)
olvi25*	1.0	1.0	1.0	1.0	(1.0)
olvi26*	0.0	0.0	0.0	0.0	(0.0)
olvi27*	1.0	1.0	1.0	1.0	(1.0)
olvi28*	0.0	0.0	0.0	0.0	(0.0)
olvi29*	1.0	1.0	1.0	1.0	(1.0)
olvi30*	0.0	0.0	0.0	0.0	(0.0)
olvi31*	1.0	1.0	1.0	1.0	(1.0)
olvi32*	0.0	0.0	0.0	0.0	(0.0)
olvi33*	1.0	1.0	1.0	1.0	(1.0)
olvi34*	0.0	0.0	0.0	0.0	(0.0)
olvi35*	1.0	1.0	1.0	1.0	(1.0)
olvi36*	0.0	0.0	0.0	0.0	(0.0)
olvi37*	1.0	1.0	1.0	1.0	(1.0)
olvi38*	0.0	0.0	0.0	0.0	(0.0)
olvi39*	1.0	1.0	1.0	1.0	(1.0)
olvi40*	0.0	0.0	0.0	0.0	(0.0)
olvi41*	1.0	1.0	1.0	1.0	(1.0)
olvi42*	0.0	0.0	0.0	0.0	(0.0)
olvi43*	1.0	1.0	1.0	1.0	(1.0)
olvi44*	0.0	0.0	0.0	0.0	(0.0)
olvi45*	1.0	1.0	1.0	1.0	(1.0)
olvi46*	0.0	0.0	0.0	0.0	(0.0)
olvi47*	1.0	1.0	1.0	1.0	(1.0)
olvi48*	0.0	0.0	0.0	0.0	(0.0)
olvi49*	1.0	1.0	1.0	1.0	(1.0)
olvi50*	0.0	0.0	0.0	0.0	(0.0)
olvi51*	1.0	1.0	1.0	1.0	(1.0)
olvi52*	0.0	0.0	0.0	0.0	(0.0)
olvi53*	1.0	1.0	1.0	1.0	(1.0)
olvi54*	0.0	0.0	0.0	0.0	(0.0)
olvi55*	1.0	1.0	1.0	1.0	(1.0)
olvi56*	0.0	0.0	0.0	0.0	(0.0)
olvi57*	1.0	1.0	1.0	1.0	(1.0)
olvi58*	0.0	0.0	0.0	0.0	(0.0)
olvi59*	1.0	1.0	1.0	1.0	(1.0)
olvi60*	0.0	0.0	0.0	0.0	(0.0)
olvi61*	1.0	1.0	1.0	1.0	(1.0)
olvi62*	0.0	0.0	0.0	0.0	(0.0)
olvi63*	1.0	1.0	1.0	1.0	(1.0)
olvi64*	0.0	0.0	0.0	0.0	(0.0)
olvi65*	1.0	1.0	1.0	1.0	(1.0)
olvi66*	0.0	0.0	0.0	0.0	(0.0)
olvi67*	1.0	1.0	1.0	1.0	(1.0)
olvi68*	0.0	0.0	0.0	0.0	(0.0)
olvi69*	1.0	1.0	1.0	1.0	(1.0)
olvi70*	0.0	0.0	0.0	0.0	(0.0)
olvi71*	1.0	1.0	1.0	1.0	(1.0)
olvi72*	0.0	0.0	0.0	0.0	(0.0)
olvi73*	1.0	1.0	1.0	1.0	(1.0)
olvi74*	0.0	0.0	0.0	0.0	(0.0)
olvi75*	1.0	1.0	1.0	1.0	(1.0)
olvi76*	0.0	0.0	0.0	0.0	(0.0)
olvi77*	1.0	1.0	1.0	1.0	(1.0)
olvi78*	0.0	0.0	0.0	0.0	(0.0)
olvi79*	1.0	1.0	1.0	1.0	(1.0)
olvi80*	0.0	0.0	0.0	0.0	(0.0)
olvi81*	1.0	1.0	1.0	1.0	(1.0)
olvi82*	0.0	0.0	0.0	0.0	(0.0)
olvi83*	1.0	1.0	1.0	1.0	(1.0)
olvi84*	0.0	0.0	0.0	0.0	(0.0)
olvi85*	1.0	1.0	1.0	1.0	(1.0)
olvi86*	0.0	0.0	0.0	0.0	(0.0)
olvi87*	1.0	1.0	1.0	1.0	(1.0)
olvi88*	0.0	0.0	0.0	0.0	(0.0)
olvi89*	1.0	1.0	1.0	1.0	(1.0)
olvi90*	0.0	0.0	0.0	0.0	(0.0)
olvi91*	1.0	1.0	1.0	1.0	(1.0)
olvi92*	0.0	0.0	0.0	0.0	(0.0)
olvi93*	1.0	1.0	1.0	1.0	(1.0)
olvi94*	0.0	0.0	0.0	0.0	(0.0)
olvi95*	1.0	1.0	1.0	1.0	(1.0)
olvi96*	0.0	0.0	0.0	0.0	(0.0)
olvi97*	1.0	1.0	1.0	1.0	(1.0)
olvi98*	0.0	0.0	0.0	0.0	(0.0)
olvi99*	1.0	1.0	1.0	1.0	(1.0)
olvi100*	0.0	0.0	0.0	0.0	(0.0)

%Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)					
olvi3*	1.0	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	0.0	(0.0)
olvi5*	1.0	1.0	1.0	1.0	(1.0)
olvi6*	0.0	0.0	0.0	0.0	(0.0)
olvi7*	1.0	1.0	1.0	1.0	(1.0)
olvi8*	0.0	0.0	0.0	0.0	(0.0)
olvi9*	1.0	1.0	1.0	1.0	(1.0)
olvi10*	0.0	0.0	0.0	0.0	(0.0)
olvi11*	1.0	1.0	1.0	1.0	(1.0)
olvi12*	0.0	0.0	0.0	0.0	(0.0)
olvi13*	1.0	1.0	1.0	1.0	(1.0)
olvi14*	0.0	0.0	0.0	0.0	(0.0)
olvi15*	1.0	1.0	1.0	1.0	(1.0)
olvi16*	0.0	0.0	0.0	0.0	(0.0)
olvi17*	1.0	1.0	1.0	1.0	(1.0)
olvi18*	0.0	0.0	0.0	0.0	(0.0)
olvi19*	1.0	1.0	1.0	1.0	(1.0)
olvi20*	0.0	0.0	0.0	0.0	(0.0)
olvi21*	1.0	1.0	1.0	1.0	(1.0)
olvi22*	0.0	0.0	0.0	0.0	(0.0)
olvi23*	1.0	1.0	1.0	1.0	(1.0)
olvi24*	0.0	0.0	0.0	0.0	(0.0)
olvi25*	1.0	1.0	1.0	1.0	(1.0)
olvi26*	0.0	0.0	0.0	0.0	(0.0)
olvi27*	1.0	1.0	1.0	1.0	(1.0)
olvi28*	0.0	0.0	0.0	0.0	(0.0)
olvi29*	1.0	1.0	1.0	1.0	(1.0)
olvi30*	0.0	0.0	0.0	0.0	(0.0)
olvi31*	1.0	1.0	1.0	1.0	(1.0)
olvi32*	0.0	0.0	0.0	0.0	(0.0)
olvi33*	1.0	1.0	1.0	1.0	(1.0)
olvi34*	0.0	0.0	0.0	0.0	(0.0)
olvi35*	1.0	1.0	1.0	1.0	(1.0)
olvi36*	0.0	0.0	0.0	0.0	(0.0)
olvi37*	1.0	1.0	1.0	1.0	(1.0)
olvi38*	0.0	0.0	0.0	0.0	(0.0)
olvi39*	1.0	1.0	1.0	1.0	(1.0)
olvi40*	0.0	0.0	0.0	0.0	(0.0)
olvi41*	1.0	1.0	1.0	1.0	(1.0)
olvi42*	0.0	0.0	0.0	0.0	(0.0)
olvi43*	1.0	1.0	1.0	1.0	(1.0)
olvi44*	0.0	0.0	0.0	0.0	(0.0)
olvi45*	1.0	1.0	1.0	1.0	(1.0)
olvi46*	0.0	0.0	0.0	0.0	(0.0)
olvi47*	1.0	1.0	1.0	1.0	(1.0)
olvi48*	0.0	0.0	0.0	0.0	(0.0)
olvi49*	1.0	1.0	1.0	1.0	(1.0)
olvi50*	0.0	0.0	0.0	0.0	(0.0)
olvi51*	1.0	1.0	1.0	1.0	(1.0)
olvi52*	0.0	0.0	0.0	0.0	(0.0)
olvi53*	1.0	1.0	1.0	1.0	(1.0)
olvi54*	0.0	0.0	0.0	0.0	(0.0)
olvi55*	1.0	1.0	1.0	1.0	(1.0)
olvi56*	0.0	0.0	0.0	0.0	(0.0)
olvi57*	1.0	1.0	1.0	1.0	(1.0)
olvi58*	0.0	0.0	0.0	0.0	(0.0)
olvi59*	1.0	1.0	1.0	1.0	(1.0)
olvi60*	0.0	0.0	0.0	0.0	(0.0)
olvi61*	1.0	1.0	1.0	1.0	(1.0)
olvi62*	0.0	0.0	0.0	0.0	(0.0)
olvi63*	1.0	1.0	1.0	1.0	(1.0)
olvi64*	0.0	0.0	0.0	0.0	(0.0)
olvi65*	1.0	1.0	1.0	1.0	(1.0)
olvi66*	0.0	0.0	0.0	0.0	(0.0)
olvi67*	1.0	1.0	1.0	1.0	(1.0)
olvi68*	0.0	0.0	0.0	0.0	(0.0)
olvi69*	1.0	1.0	1.0	1.0	(1.0)
olvi70*	0.0	0.0	0.0	0.0	(0.0)
olvi71*	1.0	1.0	1.0	1.0	(1.0)
olvi72*	0.0	0.0	0.0	0.0	(0.0)
olvi73*	1.0	1.0	1.0	1.0	(1.0)
olvi74*	0.0	0.0	0.0	0.0	(0.0)
olvi75*	1.0	1.0	1.0	1.0	(1.0)
olvi76*	0.0	0.0	0.0	0.0	(0.0)
olvi77*	1.0	1.0	1.0	1.0	(1.0)
olvi78*	0.0	0.0	0.0	0.0	(0.0)
olvi79*	1.0	1.0	1.0	1.0	(1.0)
olvi80*	0.0	0.0	0.0	0.0	(0.0)
olvi81*	1.0	1.0	1.0	1.0	(1.0)
olvi82*	0.0	0.0	0.0	0.0	(0.0)
olvi83*	1.0	1.0	1.0	1.0	(1.0)
olvi84*	0.0	0.0	0.0	0.0	(0.0)
olvi85*	1.0	1.0	1.0	1.0	(1.0)
olvi86*	0.0	0.0	0.0	0.0	(0.0)
olvi87*	1.0	1.0	1.0	1.0	(1.0)
olvi88*	0.0	0.0	0.0	0.0	(0.0)
olvi89*	1.0	1.0	1.0	1.0	(1.0)
olvi90*	0.0	0.0	0.0	0.0	(0.0)
olvi91*	1.0	1.0	1.0	1.0	(1.0)
olvi92*	0.0	0.0	0.0	0.0	(0.0)
olvi93*	1.0	1.0	1.0	1.0	(1.0)
olvi94*	0.0	0.0	0.0	0.0	(0.0)
olvi95*	1.0	1.0	1.0	1.0	(1.0)
olvi96*	0.0	0.0	0.0	0.0	(0.0)
olvi97*	1.0	1.0	1.0	1.0	(1.0)
olvi98*	0.0	0.0	0.0	0.0	(0.0)
olvi99*	1.0	1.0	1.0	1.0	(1.0)
olvi100*	0.0	0.0	0.0	0.0	(0.0)

%Regularity

$u^*_{rel} = 91$

relative Inform. Technology (IT)

Input: Colorimetric Reflective System MRS18

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

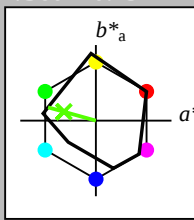
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 56 66 164

rgb*Ma: 0.1 1.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 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 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 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)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 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 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 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)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 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 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 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)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 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 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 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 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)
olvi3* 0.551 1.0 0.5 (1.0)
cmyn3* 0.449 0.0 0.5 (0.0)
olvi4* 0.551 1.0 0.5 (1.0)
cmyn4* 0.449 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 75.74 -32.2 12.22
LAB*LABa 75.74 -31.6 8.79
LAB*TCHa 75.0 32.81 164.46

relative CIELAB lab*
lab*lab 0.746 -0.481 0.134
lab*tch 0.75 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*trj 0.746 -0.499 0.0
lab*tce 0.75 0.5 0.5
lab*nce 0.0 0.5 0.998

relative Inform. Technology (IT)
olvi3* 0.301 0.75 0.25 (1.0)
cmyn3* 0.699 0.25 0.75 (0.0)
olvi4* 0.551 1.0 0.5 (1.0)
cmyn4* 0.449 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 56.39 -31.61 8.79
LAB*LABa 56.39 32.81 164.46

relative CIELAB lab*
lab*lab 0.619 -0.722 0.201
lab*tch 0.625 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*trj 0.619 -0.749 0.0
lab*tce 0.625 0.75 0.5
lab*nce 0.0 0.75 0.998

relative Inform. Technology (IT)
olvi3* 0.031 0.5 0.0 (1.0)
cmyn3* 0.969 0.25 0.75 (0.0)
olvi4* 0.551 1.0 0.5 (1.0)
cmyn4* 0.449 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.04 -31.47 9.6
LAB*LABa 37.04 -31.6 8.78
LAB*TCHa 25.01 32.81 164.47

relative CIELAB lab*
lab*lab 0.369 -0.722 0.201
lab*tch 0.375 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*trj 0.369 -0.749 0.0
lab*tce 0.375 0.75 0.5
lab*nce 0.0 0.75 0.998

relative Inform. Technology (IT)
olvi3* 0.031 0.5 0.0 (1.0)
cmyn3* 0.969 0.25 0.75 (0.0)
olvi4* 0.551 1.0 0.5 (1.0)
cmyn4* 0.449 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.04 -31.47 9.6
LAB*LABa 37.04 -31.6 8.78
LAB*TCHa 25.01 32.81 164.47

relative CIELAB lab*
lab*lab 0.369 -0.722 0.201
lab*tch 0.375 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*trj 0.369 -0.749 0.0
lab*tce 0.375 0.75 0.5
lab*nce 0.0 0.75 0.998

relative Inform. Technology (IT)
olvi3* 0.031 0.5 0.0 (1.0)
cmyn3* 0.969 0.25 0.75 (0.0)
olvi4* 0.551 1.0 0.5 (1.0)
cmyn4* 0.449 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 37.04 -31.47 9.6
LAB*LABa 37.04 -31.6 8.78
LAB*TCHa 25.01 32.81 164.47

relative CIELAB lab*
lab*lab 0.369 -0.722 0.201
lab*tch 0.375 0.75 0.457
lab*nch 0.0 0.75 0.457
relative Natural Colour (NC)
lab*trj 0.369 -0.749 0.0
lab*tce 0.375 0.75 0.5
lab*nce 0.0 0.75 0.998

Output: Colorimetric Reflective System ORS18

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

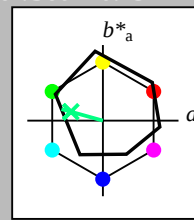
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 53 57 164

rgb*Ma: 0.0 1.0 0.25

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 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 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 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)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 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 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 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)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 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 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 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)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 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 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 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 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.37	50.52	82.62	38
YMa	90.37	-10.27	91.77	92.34	96
LMa	50.9	-62.79	34.95	71.87	151
CMa	58.62	-30.35	-45.01	54.3	236
VMa	25.71	31.11	-44.42	54.24	305
MMa	48.13	75.27	-8.35	75.73	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

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

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

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 74.1 -27.96 10.94
LAB*LABa 74.1 -27.96 10.94
LAB*TCHa 75.0 28.44 164.46

relative CIELAB lab*
lab*lab 0.725 -0.481 0.134
lab*tch 0.75 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*trj 0.725 -0.499 0.0
lab*tce 0.75 0.5 0.5
lab*nce 0.0 0.5 0.998

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 0.5 0.5 0.5 (1.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 54.75 -27.6 9.64
LAB*LABa 54.75 -27.39 7.62
LAB*TCHa 50.0 28.44 164.46

relative CIELAB lab*
lab*lab 0.475 -0.481 0.134
lab*tch 0.5 0.5 0.457
lab*nch 0.0 0.5 0.457
relative Natural Colour (NC)
lab*trj 0.475 -0.499 0.0
lab*tce 0.5 0.5 0.5
lab*nce 0.0 0.5 0.998

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 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 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 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 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 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 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 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 1.0 0.0 0.0
lab*nce 1.0 0.0 0.0

TE55-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)
BAM-test chart TE55; Colorimetric systems MRS18 & ORS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)
input: `olv* setrgbcolor`
output: `lab* setrgbcolor / w* setrgbcolor`

Input: Colorimetric Reflective System MRS18

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

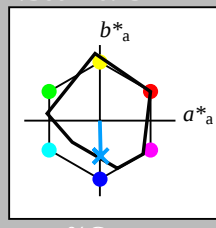
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 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)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 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 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 76.06 0.0 0.0

relative CIELAB lab*
lab*lab 0.82 0.006 -0.249
lab*tch 0.875 0.25 0.754
lab*nch 0.0 0.25 0.754
relative Natural Colour (NC)
lab*trj 0.82 0.0 -0.249
lab*tce 0.875 0.25 0.754
lab*nce 0.0 0.25 0.754

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 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 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 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 0.0 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)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 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 0.0 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)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.3 0.0 0.0
lab*tch 0.3 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.3 0.0 0.0
lab*tce 0.3 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.3 0.0 0.0
lab*tch 0.3 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.3 0.0 0.0
lab*tce 0.3 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 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)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 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)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 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)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 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

MRS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	25
JCIE	81.26	-2.17	67.76	67.79	92
GCIE	52.23	-42.26	11.75	43.87	164
BCIE	30.57	1.15	-46.84	46.87	271

% Regularity

$g^*_{H,rel} = 41$

$g^*_{C,rel} = 52$

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 0.5
cmyn4* 0.5 0.5 0.5 0.5
standard and adapted CIELAB
LAB*LAB 67.57 0.17 -22.28
LAB*LABa 67.57 0.17 -22.28
LAB*LABb 67.57 0.17 -22.28

relative CIELAB lab*
lab*lab 0.64 0.012 -0.499
lab*tch 0.75 0.0 0.754
lab*nch 0.0 0.75 0.754
relative Natural Colour (NC)
lab*trj 0.64 0.0 -0.499
lab*tce 0.75 0.0 0.754
lab*nce 0.0 0.75 0.754

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 0.5 0.5 0.5 0.5
cmyn4* 0.5 0.5 0.5 0.5
standard and adapted CIELAB
LAB*LAB 48.22 0.54 -23.59
LAB*LABa 48.22 0.54 -23.59
LAB*LABb 48.22 0.54 -23.59

relative CIELAB lab*
lab*lab 0.46 0.018 -0.749
lab*tch 0.625 0.25 0.754
lab*nch 0.0 0.75 0.754
relative Natural Colour (NC)
lab*trj 0.46 0.0 -0.749
lab*tce 0.625 0.25 0.754
lab*nce 0.0 0.75 0.754

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 39.73 1.32 -49.33
LAB*LABa 39.73 1.32 -49.33
LAB*LABb 39.73 1.32 -49.33

relative CIELAB lab*
lab*lab 0.281 0.025 -0.998
lab*tch 0.5 0.0 0.754
lab*nch 0.0 0.0 0.754
relative Natural Colour (NC)
lab*trj 0.281 0.0 -0.999
lab*tce 0.5 0.0 0.754
lab*nce 0.0 0.0 0.754

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 0.5 0.5 0.5 0.5
cmyn4* 0.5 0.5 0.5 0.5
standard and adapted CIELAB
LAB*LAB 34.3 1.14 -37.12
LAB*LABa 34.3 1.14 -37.12
LAB*LABb 34.3 1.14 -37.12

relative CIELAB lab*
lab*lab 0.211 0.018 -0.749
lab*tch 0.375 0.25 0.754
lab*nch 0.0 0.75 0.754
relative Natural Colour (NC)
lab*trj 0.211 0.0 -0.749
lab*tce 0.375 0.25 0.754
lab*nce 0.0 0.75 0.754

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 28.87 0.92 -55.16
LAB*LABa 28.87 0.92 -55.16
LAB*LABb 28.87 0.92 -55.16

relative CIELAB lab*
lab*lab 0.14 0.0 -0.499
lab*tch 0.25 0.0 0.754
lab*nch 0.0 0.0 0.754
relative Natural Colour (NC)
lab*trj 0.14 0.0 -0.499
lab*tce 0.25 0.0 0.754
lab*nce 0.0 0.0 0.754

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 23.44 0.31 -12.58
LAB*LABa 23.44 0.31 -12.58
LAB*LABb 23.44 0.31 -12.58

relative CIELAB lab*
lab*lab 0.07 0.006 -0.249
lab*tch 0.125 0.25 0.754
lab*nch 0.0 0.25 0.754
relative Natural Colour (NC)
lab*trj 0.07 0.0 -0.249
lab*tce 0.125 0.25 0.754
lab*nce 0.0 0.25 0.754

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0

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)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0

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)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0

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 Reflective System ORS18

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

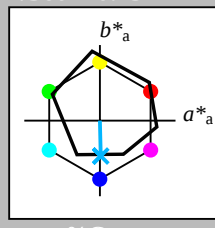
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 42 45 271

rgb*Ma: 0.0 0.49 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 93$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 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 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*LABb 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)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 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 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*LABb 76.06 0.0 0.0

relative CIELAB lab*
lab*lab 0.82 0.006 -0.249
lab*tch 0.875 0.25 0.754
lab*nch 0.0 0.25 0.754
relative Natural Colour (NC)
lab*trj 0.82 0.0 -0.249
lab*tce 0.875 0.25 0.754
lab*nce 0.0 0.25 0.754

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 1.0 1.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*LABb 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 0.0 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)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.3 0.0 0.0
lab*tch 0.3 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.3 0.0 0.0
lab*tce 0.3 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0

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)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.3 0.0 0.0
lab*tch 0.3 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.3 0.0 0.0
lab*tce 0.3 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0

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)
olvi3* 0.25 0.25 0.25 (0.0)
cmyn3* 0.75 0.75 0.75 (1.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*LABb 37.36 0.0 0.0

relative CIELAB lab*
lab*lab 0.3 0.0 0.0
lab*tch 0.3 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.3 0.0 0.0
lab*tce 0.3 0.0 0.0
lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0

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)
olvi3* 0.0 0.0 0.0 (0.0)
cmyn3* 1.0 1.0 1.0 (1.0)
olvi4* 0.0 0.0 0.0 1.0
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 18.02 0.0 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0