

Input: Colorimetric Reflective System MRS18

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

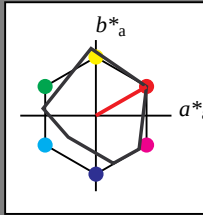
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



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*LABa 95.41 0.0 0.0
LAB*LABb 99.99 0.01 0.0
LAB*LABc 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* 1.0 0.75 0.75 (1.0)
cmyn3* 0.0 0.25 0.25 (0.0)
olvi4* 1.0 0.75 0.75 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 83.54 15.58 16.58
LAB*LABa 83.54 16.34 12.62
LAB*LABb 87.5 20.65 37.7
LAB*LABc 87.5 20.65 37.7
relative CIELAB lab*
lab*lab 0.847 0.198 0.153
lab*tch 0.875 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.847 0.238 0.075
lab*tce 0.875 0.25 0.048
lab*nce 0.0 0.25 0.191

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)
standard and adapted CIELAB
LAB*LAB 72.52 32.93 22.4
LAB*LABa 72.52 33.47 19.18
LAB*LABb 75.0 38.58 29.82
LAB*LABc 75.0 38.58 29.82
relative CIELAB lab*
lab*lab 0.704 0.434 0.249
lab*tch 0.75 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*trj 0.704 0.496 0.06
lab*tce 0.75 0.5 0.019
lab*nce 0.0 0.5 0.071

relative Inform. Technology (IT)
olvi3* 1.0 0.25 0.25 (1.0)
cmyn3* 0.0 0.75 0.75 (0.0)
olvi4* 1.0 0.25 0.25 (1.0)
cmyn4* 0.0 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 61.07 49.89 31.22
LAB*LABa 61.07 50.21 28.78
LAB*LABb 62.5 57.87 29.82
LAB*LABc 62.5 57.87 29.82
relative CIELAB lab*
lab*lab 0.559 0.651 0.373
lab*tch 0.625 0.75 0.083
lab*nch 0.0 0.75 0.083
relative Natural Colour (NC)
lab*trj 0.559 0.719 0.09
lab*tce 0.625 0.75 0.019
lab*nce 0.0 0.75 0.071

relative Inform. Technology (IT)
olvi3* 1.0 0.0 0.0 (1.0)
cmyn3* 0.0 1.0 1.0 (0.0)
olvi4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 1.0 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 49.63 66.96 38.37
LAB*LABa 49.63 66.96 38.37
LAB*LABb 50.0 77.18 29.82
LAB*LABc 50.0 77.18 29.82
relative CIELAB lab*
lab*lab 0.409 0.867 0.497
lab*tch 0.5 1.0 0.083
lab*nch 0.0 1.0 0.083
relative Natural Colour (NC)
lab*trj 0.409 0.993 0.119
lab*tce 0.5 1.0 0.048
lab*nce 0.0 1.0 0.071

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 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 42.23 21.4
LAB*LABa 56.71 42.23 21.4
LAB*LABb 50.0 0.0 0.0
LAB*LABc 50.0 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* 0.75 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*LABb 75.0 0.01 0.0
LAB*LABc 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*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* 0.75 0.5 0.5 (1.0)
cmyn3* 0.25 0.5 0.5 (0.0)
olvi4* 1.0 0.75 0.75 (1.0)
cmyn4* 0.0 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 64.61 16.35 12.27
LAB*LABa 64.61 16.74 9.59
LAB*LABb 62.5 19.29 29.82
LAB*LABc 62.5 19.29 29.82
relative CIELAB lab*
lab*lab 0.602 0.217 0.124
lab*tch 0.625 0.25 0.083
lab*nch 0.25 0.25 0.083
relative Natural Colour (NC)
lab*trj 0.602 0.248 0.03
lab*tce 0.625 0.25 0.019
lab*nce 0.25 0.25 0.071

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)
standard and adapted CIELAB
LAB*LAB 53.17 33.31 21.09
LAB*LABa 53.17 33.48 19.19
LAB*LABb 50.0 38.59 29.82
LAB*LABc 50.0 38.59 29.82
relative CIELAB lab*
lab*lab 0.434 0.434 0.249
lab*tch 0.5 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*trj 0.434 0.496 0.06
lab*tce 0.5 0.5 0.019
lab*nce 0.25 0.5 0.071

relative Inform. Technology (IT)
olvi3* 0.75 0.0 0.0 (1.0)
cmyn3* 0.25 0.0 0.0 (0.0)
olvi4* 1.0 0.25 0.25 (1.0)
cmyn4* 0.0 0.75 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 41.73 50.26 29.91
LAB*LABa 41.73 50.21 28.78
LAB*LABb 37.51 57.87 29.82
LAB*LABc 37.51 57.87 29.82
relative CIELAB lab*
lab*lab 0.306 0.651 0.373
lab*tch 0.375 0.75 0.083
lab*nch 0.25 0.75 0.083
relative Natural Colour (NC)
lab*trj 0.306 0.745 0.09
lab*tce 0.375 0.75 0.019
lab*nce 0.25 0.75 0.071

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 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 44.84 16.33 13.98
LAB*LABa 44.84 16.34 12.63
LAB*LABb 44.84 16.34 12.63
LAB*LABc 44.84 16.34 12.63
relative CIELAB lab*
lab*lab 0.347 0.198 0.153
lab*tch 0.375 0.25 0.105
lab*nch 0.0 0.25 0.105
relative Natural Colour (NC)
lab*trj 0.347 0.238 0.075
lab*tce 0.375 0.25 0.048
lab*nce 0.0 0.25 0.191

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 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 37.36 37.36
LAB*LABa 37.36 37.36 37.36
LAB*LABb 37.36 37.36 37.36
LAB*LABc 37.36 37.36 37.36
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* 0.25 0.0 0.0 (1.0)
cmyn3* 0.75 0.0 0.0 (0.0)
olvi4* 1.0 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 33.82 33.82 33.82
LAB*LABa 33.82 33.82 33.82
LAB*LABb 33.82 33.82 33.82
LAB*LABc 33.82 33.82 33.82
relative CIELAB lab*
lab*lab 0.204 0.434 0.249
lab*tch 0.25 0.5 0.083
lab*nch 0.0 0.5 0.083
relative Natural Colour (NC)
lab*trj 0.204 0.496 0.06
lab*tce 0.25 0.5 0.019
lab*nce 0.25 0.5 0.071

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 0.0 0.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 18.02 18.02 18.02
LAB*LABa 18.02 18.02 18.02
LAB*LABb 18.02 18.02 18.02
LAB*LABc 18.02 18.02 18.02
relative CIELAB lab*
lab*lab 0.102 0.217 0.124
lab*tch 0.125 0.25 0.083
lab*nch 0.0 0.25 0.083
relative Natural Colour (NC)
lab*trj 0.102 0.248 0.03
lab*tce 0.125 0.25 0.019
lab*nce 0.25 0.25 0.071

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
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lab*nce 0.0 0.0 0.0

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olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
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standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
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LAB*LAB 0.0 0.0 0.0
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relative Natural Colour (NC)
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relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
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lab*nce 0.0 0.0 0.0

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LAB*LABc 0.0 0.0 0.0
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relative Inform. Technology (IT)
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cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
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lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
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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* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
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relative Natural Colour (NC)
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relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
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standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
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lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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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)
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standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
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relative Natural Colour (NC)
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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* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
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lab*nce 0.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
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standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
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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* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
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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* 0.0 1.0 1.0 (1.0)
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standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
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olvi3* 0.0 0.0 0.0 (1.0)
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standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
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LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
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lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
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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* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*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 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 0.0 0.0 0.0
LAB*LABa 0.0 0.0 0.0
LAB*LABb 0.0 0.0 0.0
LAB*LABc 0.0 0.0 0.0
relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 0.0 0.0 0.

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 172/360 = 0.479$

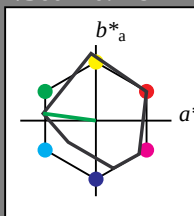
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

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

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

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

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 Inform. Technology (IT)
olvi3* 0.75 1.0 0.75 (1.0)
cmyn3* 0.25 0.0 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 95.41 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.5 1.0 0.5 (1.0)
cmyn3* 0.5 0.0 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 95.41 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.25 1.0 0.25 (1.0)
cmyn3* 0.25 0.0 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 95.41 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 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 75.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.75 0.5 (1.0)
cmyn3* 0.5 0.25 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 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.75 0.25 (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 75.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.125 1.0 0.125 (1.0)
cmyn3* 0.125 0.0 0.125 (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 75.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.5 0.75 (1.0)
cmyn3* 0.25 0.5 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 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01 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*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.5 0.25 (1.0)
cmyn3* 0.25 0.5 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 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.125 0.5 0.125 (1.0)
cmyn3* 0.125 0.5 0.125 (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 50.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.25 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 37.36 -0.13 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.25 0.5 (1.0)
cmyn3* 0.5 0.25 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 37.36 -0.13 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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 37.36 -0.13 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.125 0.25 0.125 (1.0)
cmyn3* 0.125 0.25 0.125 (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*TCHa 25.0 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.125 0.75 (1.0)
cmyn3* 0.25 0.125 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 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.125 0.5 (1.0)
cmyn3* 0.5 0.125 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 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.125 0.25 (1.0)
cmyn3* 0.25 0.125 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 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.125 0.125 0.125 (1.0)
cmyn3* 0.125 0.125 0.125 (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 Inform. Technology (IT)
olvi3* 0.75 0.0 0.75 (1.0)
cmyn3* 0.25 0.0 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.25 0.0 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.125 0.0 0.125 (1.0)
cmyn3* 0.125 0.0 0.125 (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 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.0 0.75 (1.0)
cmyn3* 0.25 0.0 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.25 0.0 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.125 0.0 0.125 (1.0)
cmyn3* 0.125 0.0 0.125 (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 0.0

relative Inform. Technology (IT)
olvi3* 0.75 0.0 0.75 (1.0)
cmyn3* 0.25 0.0 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.5 (1.0)
cmyn3* 0.5 0.0 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.25 (1.0)
cmyn3* 0.25 0.0 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

relative Inform. Technology (IT)
olvi3* 0.125 0.0 0.125 (1.0)
cmyn3* 0.125 0.0 0.125 (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 0.0

UE55-7, 5 step scales for constant CIELAB hue 172/360 = 0.479 (left)

5 step scales for constant CIELAB hue 151/360 = 0.419 (right)

BAM-test chart UE55; Colorimetric systems MRS18 & ORS18

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

input: $cmv0^* setcmykcolor$

output: no change compared to input

Input: Colorimetric Reflective System MRS18

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

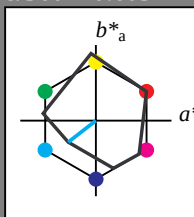
lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 45 46 218

rgb*Ma: 0.0 1.0 1.0

triangle lightness t^*



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
G50B _{Ma}	45.03	-36.57	-28.47	46.36	218
B _{Ma}	36.65	23.19	-63.05	67.18	290
B50R _{Ma}	34.94	57.17	-44.26	72.31	322
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	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)
olvi4* 0.0 0.0 0.0 (0.0)
olvi5* 1.0 1.0 1.0 (1.0)
olvi6* 0.0 0.0 0.0 (0.0)
olvi7* 0.0 0.0 0.0 (0.0)
olvi8* 0.0 0.0 0.0 (0.0)
olvi9* 0.0 0.0 0.0 (0.0)
olvi10* 0.0 0.0 0.0 (0.0)
olvi11* 0.0 0.0 0.0 (0.0)
olvi12* 0.0 0.0 0.0 (0.0)
olvi13* 0.0 0.0 0.0 (0.0)
olvi14* 0.0 0.0 0.0 (0.0)
olvi15* 0.0 0.0 0.0 (0.0)
olvi16* 0.0 0.0 0.0 (0.0)
olvi17* 0.0 0.0 0.0 (0.0)
olvi18* 0.0 0.0 0.0 (0.0)
olvi19* 0.0 0.0 0.0 (0.0)
olvi20* 0.0 0.0 0.0 (0.0)
olvi21* 0.0 0.0 0.0 (0.0)
olvi22* 0.0 0.0 0.0 (0.0)
olvi23* 0.0 0.0 0.0 (0.0)
olvi24* 0.0 0.0 0.0 (0.0)
olvi25* 0.0 0.0 0.0 (0.0)
olvi26* 0.0 0.0 0.0 (0.0)
olvi27* 0.0 0.0 0.0 (0.0)
olvi28* 0.0 0.0 0.0 (0.0)
olvi29* 0.0 0.0 0.0 (0.0)
olvi30* 0.0 0.0 0.0 (0.0)
olvi31* 0.0 0.0 0.0 (0.0)
olvi32* 0.0 0.0 0.0 (0.0)
olvi33* 0.0 0.0 0.0 (0.0)
olvi34* 0.0 0.0 0.0 (0.0)
olvi35* 0.0 0.0 0.0 (0.0)
olvi36* 0.0 0.0 0.0 (0.0)
olvi37* 0.0 0.0 0.0 (0.0)
olvi38* 0.0 0.0 0.0 (0.0)
olvi39* 0.0 0.0 0.0 (0.0)
olvi40* 0.0 0.0 0.0 (0.0)
olvi41* 0.0 0.0 0.0 (0.0)
olvi42* 0.0 0.0 0.0 (0.0)
olvi43* 0.0 0.0 0.0 (0.0)
olvi44* 0.0 0.0 0.0 (0.0)
olvi45* 0.0 0.0 0.0 (0.0)
olvi46* 0.0 0.0 0.0 (0.0)
olvi47* 0.0 0.0 0.0 (0.0)
olvi48* 0.0 0.0 0.0 (0.0)
olvi49* 0.0 0.0 0.0 (0.0)
olvi50* 0.0 0.0 0.0 (0.0)
olvi51* 0.0 0.0 0.0 (0.0)
olvi52* 0.0 0.0 0.0 (0.0)
olvi53* 0.0 0.0 0.0 (0.0)
olvi54* 0.0 0.0 0.0 (0.0)
olvi55* 0.0 0.0 0.0 (0.0)
olvi56* 0.0 0.0 0.0 (0.0)
olvi57* 0.0 0.0 0.0 (0.0)
olvi58* 0.0 0.0 0.0 (0.0)
olvi59* 0.0 0.0 0.0 (0.0)
olvi60* 0.0 0.0 0.0 (0.0)
olvi61* 0.0 0.0 0.0 (0.0)
olvi62* 0.0 0.0 0.0 (0.0)
olvi63* 0.0 0.0 0.0 (0.0)
olvi64* 0.0 0.0 0.0 (0.0)
olvi65* 0.0 0.0 0.0 (0.0)
olvi66* 0.0 0.0 0.0 (0.0)
olvi67* 0.0 0.0 0.0 (0.0)
olvi68* 0.0 0.0 0.0 (0.0)
olvi69* 0.0 0.0 0.0 (0.0)
olvi70* 0.0 0.0 0.0 (0.0)
olvi71* 0.0 0.0 0.0 (0.0)
olvi72* 0.0 0.0 0.0 (0.0)
olvi73* 0.0 0.0 0.0 (0.0)
olvi74* 0.0 0.0 0.0 (0.0)
olvi75* 0.0 0.0 0.0 (0.0)
olvi76* 0.0 0.0 0.0 (0.0)
olvi77* 0.0 0.0 0.0 (0.0)
olvi78* 0.0 0.0 0.0 (0.0)
olvi79* 0.0 0.0 0.0 (0.0)
olvi80* 0.0 0.0 0.0 (0.0)
olvi81* 0.0 0.0 0.0 (0.0)
olvi82* 0.0 0.0 0.0 (0.0)
olvi83* 0.0 0.0 0.0 (0.0)
olvi84* 0.0 0.0 0.0 (0.0)
olvi85* 0.0 0.0 0.0 (0.0)
olvi86* 0.0 0.0 0.0 (0.0)
olvi87* 0.0 0.0 0.0 (0.0)
olvi88* 0.0 0.0 0.0 (0.0)
olvi89* 0.0 0.0 0.0 (0.0)
olvi90* 0.0 0.0 0.0 (0.0)
olvi91* 0.0 0.0 0.0 (0.0)
olvi92* 0.0 0.0 0.0 (0.0)
olvi93* 0.0 0.0 0.0 (0.0)
olvi94* 0.0 0.0 0.0 (0.0)
olvi95* 0.0 0.0 0.0 (0.0)
olvi96* 0.0 0.0 0.0 (0.0)
olvi97* 0.0 0.0 0.0 (0.0)
olvi98* 0.0 0.0 0.0 (0.0)
olvi99* 0.0 0.0 0.0 (0.0)
olvi100* 0.0 0.0 0.0 (0.0)

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
olvi4* 0.25 0.25 0.25 (0.0)
olvi5* 0.75 0.75 0.75 (1.0)
olvi6* 0.25 0.25 0.25 (0.0)
olvi7* 0.75 0.75 0.75 (1.0)
olvi8* 0.25 0.25 0.25 (0.0)
olvi9* 0.75 0.75 0.75 (1.0)
olvi10* 0.25 0.25 0.25 (0.0)
olvi11* 0.75 0.75 0.75 (1.0)
olvi12* 0.25 0.25 0.25 (0.0)
olvi13* 0.75 0.75 0.75 (1.0)
olvi14* 0.25 0.25 0.25 (0.0)
olvi15* 0.75 0.75 0.75 (1.0)
olvi16* 0.25 0.25 0.25 (0.0)
olvi17* 0.75 0.75 0.75 (1.0)
olvi18* 0.25 0.25 0.25 (0.0)
olvi19* 0.75 0.75 0.75 (1.0)
olvi20* 0.25 0.25 0.25 (0.0)
olvi21* 0.75 0.75 0.75 (1.0)
olvi22* 0.25 0.25 0.25 (0.0)
olvi23* 0.75 0.75 0.75 (1.0)
olvi24* 0.25 0.25 0.25 (0.0)
olvi25* 0.75 0.75 0.75 (1.0)
olvi26* 0.25 0.25 0.25 (0.0)
olvi27* 0.75 0.75 0.75 (1.0)
olvi28* 0.25 0.25 0.25 (0.0)
olvi29* 0.75 0.75 0.75 (1.0)
olvi30* 0.25 0.25 0.25 (0.0)
olvi31* 0.75 0.75 0.75 (1.0)
olvi32* 0.25 0.25 0.25 (0.0)
olvi33* 0.75 0.75 0.75 (1.0)
olvi34* 0.25 0.25 0.25 (0.0)
olvi35* 0.75 0.75 0.75 (1.0)
olvi36* 0.25 0.25 0.25 (0.0)
olvi37* 0.75 0.75 0.75 (1.0)
olvi38* 0.25 0.25 0.25 (0.0)
olvi39* 0.75 0.75 0.75 (1.0)
olvi40* 0.25 0.25 0.25 (0.0)
olvi41* 0.75 0.75 0.75 (1.0)
olvi42* 0.25 0.25 0.25 (0.0)
olvi43* 0.75 0.75 0.75 (1.0)
olvi44* 0.25 0.25 0.25 (0.0)
olvi45* 0.75 0.75 0.75 (1.0)
olvi46* 0.25 0.25 0.25 (0.0)
olvi47* 0.75 0.75 0.75 (1.0)
olvi48* 0.25 0.25 0.25 (0.0)
olvi49* 0.75 0.75 0.75 (1.0)
olvi50* 0.25 0.25 0.25 (0.0)
olvi51* 0.75 0.75 0.75 (1.0)
olvi52* 0.25 0.25 0.25 (0.0)
olvi53* 0.75 0.75 0.75 (1.0)
olvi54* 0.25 0.25 0.25 (0.0)
olvi55* 0.75 0.75 0.75 (1.0)
olvi56* 0.25 0.25 0.25 (0.0)
olvi57* 0.75 0.75 0.75 (1.0)
olvi58* 0.25 0.25 0.25 (0.0)
olvi59* 0.75 0.75 0.75 (1.0)
olvi60* 0.25 0.25 0.25 (0.0)
olvi61* 0.75 0.75 0.75 (1.0)
olvi62* 0.25 0.25 0.25 (0.0)
olvi63* 0.75 0.75 0.75 (1.0)
olvi64* 0.25 0.25 0.25 (0.0)
olvi65* 0.75 0.75 0.75 (1.0)
olvi66* 0.25 0.25 0.25 (0.0)
olvi67* 0.75 0.75 0.75 (1.0)
olvi68* 0.25 0.25 0.25 (0.0)
olvi69* 0.75 0.75 0.75 (1.0)
olvi70* 0.25 0.25 0.25 (0.0)
olvi71* 0.75 0.75 0.75 (1.0)
olvi72* 0.25 0.25 0.25 (0.0)
olvi73* 0.75 0.75 0.75 (1.0)
olvi74* 0.25 0.25 0.25 (0.0)
olvi75* 0.75 0.75 0.75 (1.0)
olvi76* 0.25 0.25 0.25 (0.0)
olvi77* 0.75 0.75 0.75 (1.0)
olvi78* 0.25 0.25 0.25 (0.0)
olvi79* 0.75 0.75 0.75 (1.0)
olvi80* 0.25 0.25 0.25 (0.0)
olvi81* 0.75 0.75 0.75 (1.0)
olvi82* 0.25 0.25 0.25 (0.0)
olvi83* 0.75 0.75 0.75 (1.0)
olvi84* 0.25 0.25 0.25 (0.0)
olvi85* 0.75 0.75 0.75 (1.0)
olvi86* 0.25 0.25 0.25 (0.0)
olvi87* 0.75 0.75 0.75 (1.0)
olvi88* 0.25 0.25 0.25 (0.0)
olvi89* 0.75 0.75 0.75 (1.0)
olvi90* 0.25 0.25 0.25 (0.0)
olvi91* 0.75 0.75 0.75 (1.0)
olvi92* 0.25 0.25 0.25 (0.0)
olvi93* 0.75 0.75 0.75 (1.0)
olvi94* 0.25 0.25 0.25 (0.0)
olvi95* 0.75 0.75 0.75 (1.0)
olvi96* 0.25 0.25 0.25 (0.0)
olvi97* 0.75 0.75 0.75 (1.0)
olvi98* 0.25 0.25 0.25 (0.0)
olvi99* 0.75 0.75 0.75 (1.0)
olvi100* 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.5 (0.0)
olvi4* 0.5 0.5 0.5 (0.0)
olvi5* 0.5 0.5 0.5 (0.0)
olvi6* 0.5 0.5 0.5 (0.0)
olvi7* 0.5 0.5 0.5 (0.0)
olvi8* 0.5 0.5 0.5 (0.0)
olvi9* 0.5 0.5 0.5 (0.0)
olvi10* 0.5 0.5 0.5 (0.0)
olvi11* 0.5 0.5 0.5 (0.0)
olvi12* 0.5 0.5 0.5 (0.0)
olvi13* 0.5 0.5 0.5 (0.0)
olvi14* 0.5 0.5 0.5 (0.0)
olvi15* 0.5 0.5 0.5 (0.0)
olvi16* 0.5 0.5 0.5 (0.0)
olvi17* 0.5 0.5 0.5 (0.0)
olvi18* 0.5 0.5 0.5 (0.0)
olvi19* 0.5 0.5 0.5 (0.0)
olvi20* 0.5 0.5 0.5 (0.0)
olvi21* 0.5 0.5 0.5 (0.0)
olvi22* 0.5 0.5 0.5 (0.0)
olvi23* 0.5 0.5 0.5 (0.0)
olvi24* 0.5 0.5 0.5 (0.0)
olvi25* 0.5 0.5 0.5 (0.0)
olvi26* 0.5 0.5 0.5 (0.0)
olvi27* 0.5 0.5 0.5 (0.0)
olvi28* 0.5 0.5 0.5 (0.0)
olvi29* 0.5 0.5 0.5 (0.0)
olvi30* 0.5 0.5 0.5 (0.0)
olvi31* 0.5 0.5 0.5 (0.0)
olvi32* 0.5 0.5 0.5 (0.0)
olvi33* 0.5 0.5 0.5 (0.0)
olvi34* 0.5 0.5 0.5 (0.0)
olvi35* 0.5 0.5 0.5 (0.0)
olvi36* 0.5 0.5 0.5 (0.0)
olvi37* 0.5 0.5 0.5 (0.0)
olvi38* 0.5 0.5 0.5 (0.0)
olvi39* 0.5 0.5 0.5 (0.0)
olvi40* 0.5 0.5 0.5 (0.0)
olvi41* 0.5 0.5 0.5 (0.0)
olvi42* 0.5 0.5 0.5 (0.0)
olvi43* 0.5 0.5 0.5 (0.0)
olvi44* 0.5 0.5 0.5 (0.0)
olvi45* 0.5 0.5 0.5 (0.0)
olvi46* 0.5 0.5 0.5 (0.0)
olvi47* 0.5 0.5 0.5 (0.0)
olvi48* 0.5 0.5 0.5 (0.0)
olvi49* 0.5 0.5 0.5 (0.0)
olvi50* 0.5 0.5 0.5 (0.0)
olvi51* 0.5 0.5 0.5 (0.0)
olvi52* 0.5 0.5 0.5 (0.0)
olvi53* 0.5 0.5 0.5 (0.0)
olvi54* 0.5 0.5 0.5 (0.0)
olvi55* 0.5 0.5 0.5 (0.0)
olvi56* 0.5 0.5 0.5 (0.0)
olvi57* 0.5 0.5 0.5 (0.0)
olvi58* 0.5 0.5 0.5 (0.0)
olvi59* 0.5 0.5 0.5 (0.0)
olvi60* 0.5 0.5 0.5 (0.0)
olvi61* 0.5 0.5 0.5 (0.0)
olvi62* 0.5 0.5 0.5 (0.0)
olvi63* 0.5 0.5 0.5 (0.0)
olvi64* 0.5 0.5 0.5 (0.0)
olvi65* 0.5 0.5 0.5 (0.0)
olvi66* 0.5 0.5 0.5 (0.0)
olvi67* 0.5 0.5 0.5 (0.0)
olvi68* 0.5 0.5 0.5 (0.0)
olvi69* 0.5 0.5 0.5 (0.0)
olvi70* 0.5 0.5 0.5 (0.0)
olvi71* 0.5 0.5 0.5 (0.0)
olvi72* 0.5 0.5 0.5 (0.0)
olvi73* 0.5 0.5 0.5 (0.0)
olvi74* 0.5 0.5 0.5 (0.0)
olvi75* 0.5 0.5 0.5 (0.0)
olvi76* 0.5 0.5 0.5 (0.0)
olvi77* 0.5 0.5 0.5 (0.0)
olvi78* 0.5 0.5 0.5 (0.0)
olvi79* 0.5 0.5 0.5 (0.0)
olvi80* 0.5 0.5 0.5 (0.0)
olvi81* 0.5 0.5 0.5 (0.0)
olvi82* 0.5 0.5 0.5 (0.0)
olvi83* 0.5 0.5 0.5 (0.0)
olvi84* 0.5 0.5 0.5 (0.0)
olvi85* 0.5 0.5 0.5 (0.0)
olvi86* 0.5 0.5 0.5 (0.0)
olvi87* 0.5 0.5 0.5 (0.0)
olvi88* 0.5 0.5 0.5 (0.0)
olvi89* 0.5 0.5 0.5 (0.0)
olvi90* 0.5 0.5 0.5 (0.0)
olvi91* 0.5 0.5 0.5 (0.0)
olvi92* 0.5 0.5 0.5 (0.0)
olvi93* 0.5 0.5 0.5 (0.0)
olvi94* 0.5 0.5 0.5 (0.0)
olvi95* 0.5 0.5 0.5 (0.0)
olvi96* 0.5 0.5 0.5 (0.0)
olvi97* 0.5 0.5 0.5 (0.0)
olvi98* 0.5 0.5 0.5 (0.0)
olvi99* 0.5 0.5 0.5 (0.0)
olvi100* 0.5 0.5 0.5 (0.0)

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (0.0)
olvi4* 0.25 0.25 0.25 (0.0)
olvi5* 0.25 0.25 0.25 (0.0)
olvi6* 0.25 0.25 0.25 (0.0)
olvi7* 0.25 0.25 0.25 (0.0)
olvi8* 0.25 0.25 0.25 (0.0)
olvi9* 0.25 0.25 0.25 (0.0)
olvi10* 0.25 0.25 0.25 (0.0)
olvi11* 0.25 0.25 0.25 (0.0)
olvi12* 0.25 0.25 0.25 (0.0)
olvi13* 0.25 0.25 0.25 (0.0)
olvi14* 0.25 0.25 0.25 (0.0)
olvi15* 0.25 0.25 0.25 (0.0)
olvi16* 0.25 0.25 0.25 (0.0)
olvi17* 0.25 0.25 0.25 (0.0)
olvi18* 0.25 0.25 0.25 (0.0)
olvi19* 0.25 0.25 0.25 (0.0)
olvi20* 0.25 0.25 0.25 (0.0)
olvi21* 0.25 0.25 0.25 (0.0)
olvi22* 0.25 0.25 0.25 (0.0)
olvi23* 0.25 0.25 0.25 (0.0)
olvi24* 0.25 0.25 0.25 (0.0)
olvi25* 0.25 0.25 0.25 (0.0)
olvi26* 0.25 0.25 0.25 (0.0)
olvi27* 0.25 0.25 0.25 (0.0)
olvi28* 0.25 0.25 0.25 (0.0)
olvi29* 0.25 0.25 0.25 (0.0)
olvi30* 0.25 0.25 0.25 (0.0)
olvi31* 0.25 0.25 0.25 (0.0)
olvi32* 0.25 0.25 0.25 (0.0)
olvi33* 0.25 0.25 0.25 (0.0)
olvi34* 0.25 0.25 0.25 (0.0)
olvi35* 0.25 0.25 0.25 (0.0)
olvi36* 0.25 0.25 0.25 (0.0)
olvi37* 0.25 0.25 0.25 (0.0)
olvi38* 0.25 0.25 0.25 (0.0)
olvi39* 0.25 0.25 0.25 (0.0)
olvi40* 0.25 0.25 0.25 (0.0)
olvi41* 0.25 0.25 0.25 (0.0)
olvi42* 0.25 0.25 0.25 (0.0)
olvi43* 0.25 0.25 0.25 (0.0)
olvi44* 0.25 0.25 0.25 (0.0)
olvi45* 0.25 0.25 0.25 (0.0)
olvi46* 0.25 0.25 0.25 (0.0)
olvi47* 0.25 0.25 0.25 (0.0)
olvi48* 0.25 0.25 0.25 (0.0)
olvi49* 0.25 0.25 0.25 (0.0)
olvi50* 0.25 0.25 0.25 (0.0)
olvi51* 0.25 0.25 0.25 (0.0)
olvi52* 0.25 0.25 0.25 (0.0)
olvi53* 0.25 0.25 0.25 (0.0)
olvi54* 0.25 0.25 0.25 (0.0)
olvi55* 0.25 0.25 0.25 (0.0)
olvi56* 0.25 0.25 0.25 (0.0)
olvi57* 0.25 0.25 0.25 (0.0)
olvi58* 0.25 0.25 0.25 (0.0)
olvi59* 0.25 0.25 0.25 (0.0)
olvi60* 0.25 0.25 0.25 (0.0)
olvi61* 0.25 0.25 0.25 (0.0)
olvi62* 0.25 0.25 0.25 (0.0)
olvi63* 0.25 0.25 0.25 (0.0)
olvi64* 0.25 0.25 0.25 (0.0)
olvi65* 0.25 0.25 0.25 (0.0)
olvi66* 0.25 0.25 0.25 (0.0)
olvi67* 0.25 0.25 0.25 (0.0)
olvi68* 0.25 0.25 0.25 (0.0)
olvi69* 0.25 0.25 0.25 (0.0)
olvi70* 0.25 0.25 0.25 (0.0)
olvi71* 0.25 0.25 0.25 (0.0)
olvi72* 0.25 0.25 0.25 (0.0)
olvi73* 0.25 0.25 0.25 (0.0)
olvi74* 0.25 0.25 0.25 (0.0)
olvi75* 0.25 0.25 0.25 (0.0)
olvi76* 0.25 0.25 0.25 (0.0)
olvi77* 0.25 0.25 0.25 (0.0)
olvi78* 0.25 0.25 0.25 (0.0)
olvi79* 0.25 0.25 0.25 (0.0)
olvi80* 0.25 0.25 0.25 (0.0)
olvi81* 0.25 0.25 0.25 (0.0)
olvi82* 0.25 0.25 0.25 (0.0)
olvi83* 0.25 0.25 0.25 (0.0)
olvi84* 0.25 0.25 0.25 (0.0)
olvi85* 0.25 0.25 0.25 (0.0)
olvi86* 0.25 0.25 0.25 (0.0)
olvi87* 0.25 0.25 0.25 (0.0)
olvi88* 0.25 0.25 0.25 (0.0)
olvi89* 0.25 0.25 0.25 (0.0)
olvi90* 0.25 0.25 0.25 (0.0)
olvi91* 0.25 0.25 0.25 (0.0)
olvi92* 0.25 0.25 0.25 (0.0)
olvi93* 0.25 0.25 0.25 (0.0)
olvi94* 0.25 0.25 0.25 (0.0)
olvi95* 0.25 0.25 0.25 (0.0)
olvi96* 0.25 0.25 0.25 (0.0)
olvi97* 0.25 0.25 0.25 (0.0)
olvi98* 0.25 0.25 0.25 (0.0)
olvi99* 0.25 0.25 0.25 (0.0)
olvi100* 0.25 0.25 0.25 (0.0)

relative Inform. Technology (IT)
olvi3* 0.125 0.125 0.125 (0.0)
olvi4* 0.125 0.125 0.125 (0.0)
olvi5* 0.125 0.125 0.125 (0.0)
olvi6* 0.125 0.125 0.125 (0.0)
olvi7* 0.125 0.125 0.125 (0.0)
olvi8* 0.125 0.125 0.125 (0.0)
olvi9* 0.125 0.125 0.125 (0.0)
olvi10* 0.125 0.125 0.125 (0.0)
olvi11* 0.125 0.125 0.125 (0.0)
olvi12* 0.125 0.125 0.125 (0.0)
olvi13* 0.125 0.125 0.125 (0.0)
olvi14* 0.125 0.125 0.125 (0.0)
olvi15* 0.125 0.125 0.125 (0.0)
olvi16* 0.125 0.125 0.125 (0.0)
olvi17* 0.125

Input: Colorimetric Reflective System MRS18

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

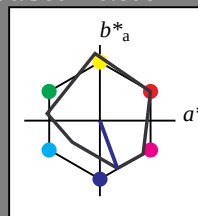
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 37 67 290

rgb*Ma: 0.0 0.0 1.0

triangle lightness t^*



% 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*trc 1.0 0.0 0.0
lab*ncc 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 0.0

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 -0.234
lab*trc 0.875 0.25 0.806
lab*ncc 0.0 0.25 0.806

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 0.5
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 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*trc 0.75 0.0 0.0
lab*ncc 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*TCHa 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*trc 0.75 0.0 0.0
lab*ncc 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.0 0.0
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.31 0.086 -0.234
lab*tch 0.375 0.25 0.806
lab*nch 0.0 0.25 0.806
relative Natural Colour (NC)
lab*trj 0.31 0.086 -0.234
lab*trc 0.375 0.25 0.806
lab*ncc 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.0 0.0
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.31 0.086 -0.234
lab*tch 0.375 0.25 0.806
lab*nch 0.0 0.25 0.806
relative Natural Colour (NC)
lab*trj 0.31 0.086 -0.234
lab*trc 0.375 0.25 0.806
lab*ncc 0.0 0.25 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* 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*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*trc 0.0 0.0 0.0
lab*ncc 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 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*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*trc 0.0 0.0 0.0
lab*ncc 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 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*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*trc 0.0 0.0 0.0
lab*ncc 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 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*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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

UE55-7, 5 step scales for constant CIELAB hue 290/360 = 0.806 (left)

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 1.0 1.0
cmyn4* 0.5 0.5 0.0 0.5
standard and adapted CIELAB
LAB*LAB 66.03 11.17 -28.74
LAB*LABa 66.03 11.17 -28.74
LAB*TCHa 75.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.62 0.173 -0.468
lab*tch 0.75 0.5 0.806
lab*nch 0.0 0.5 0.806
relative Natural Colour (NC)
lab*trj 0.62 0.173 -0.468
lab*trc 0.75 0.5 0.806
lab*ncc 0.0 0.5 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* 0.5 0.5 1.0 0.5
cmyn4* 0.5 0.5 0.0 0.5
standard and adapted CIELAB
LAB*LAB 46.68 11.59 -31.52
LAB*LABa 46.68 11.59 -31.52
LAB*TCHa 50.0 33.59 290.19

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 -0.703
lab*trc 0.625 0.75 0.806
lab*ncc 0.0 0.75 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 1.0
cmyn4* 0.0 0.0 0.0 1.0
standard and adapted CIELAB
LAB*LAB 36.65 23.18 -63.05
LAB*LABa 36.65 23.18 -63.05
LAB*TCHa 50.0 67.17 290.19

relative CIELAB lab*
lab*lab 0.241 0.345 -0.937
lab*tch 0.5 1.0 0.806
lab*nch 0.0 1.0 0.806
relative Natural Colour (NC)
lab*trj 0.241 0.345 -0.937
lab*trc 0.5 1.0 0.806
lab*ncc 0.0 1.0 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
standard and adapted CIELAB
LAB*LAB 32.0 17.62 -46.8
LAB*LABa 32.0 17.62 -46.8
LAB*TCHa 37.51 50.38 290.19

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 -0.703
lab*trc 0.375 0.75 0.806
lab*ncc 0.0 0.75 0.806

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

relative CIELAB lab*
lab*lab 0.12 0.173 -0.468
lab*tch 0.25 0.5 0.806
lab*nch 0.0 0.5 0.806
relative Natural Colour (NC)
lab*trj 0.12 0.173 -0.468
lab*trc 0.25 0.5 0.806
lab*ncc 0.0 0.5 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
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 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
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 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
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 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
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 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

chromaticness c^*

Output: Colorimetric Reflective System ORS18

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

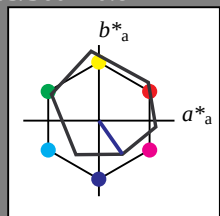
lab^*tch and lab^*nch

D65: hue V

LCH*Ma: 26 54 305

rgb*Ma: 0.0 0.0 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 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*trc 1.0 0.0 0.0
lab*ncc 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 0.0

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 -0.234
lab*trc 0.875 0.25 0.806
lab*ncc 0.0 0.25 0.806

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 0.0

relative CIELAB lab*
lab*lab 0.5 0.5 0.0
lab*tch 0.75 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.0 0.0
lab*trc 0.75 0.0 0.0
lab*ncc 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 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.0 0.0
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.31 0.086 -0.234
lab*tch 0.375 0.25 0.806
lab*nch 0.0 0.25 0.806
relative Natural Colour (NC)
lab*trj 0.31 0.086 -0.234
lab*trc 0.375 0.25 0.806
lab*ncc 0.0 0.25 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 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 0.01 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
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 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
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 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
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 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*trc 0.0 0.0 0.0
lab*ncc 1.0 0.0 0.0

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.5
cmyn4* 0.0 0.0 0.0 0.5
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 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1

Input: Colorimetric Reflective System MRS18

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

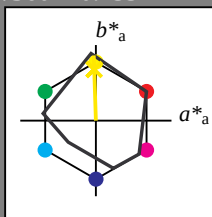
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 89 86 92

rgb*Ma: 1.0 0.95 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 -

relative Inform. Technology (IT)
olvi3* 1.0 0.988 0.75 (1.0)
cmyn3* 0.0 0.012 0.25 (0.0)
olvi4* 1.0 0.988 0.75 (1.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 93.72 -1.64 26.21
LAB*LABa 93.72 -0.69 21.57
LAB*TCHa 97.5 21.58 91.86

relative Inform. Technology (IT)
olvi3* 1.0 0.978 0.75 (1.0)
cmyn3* 0.0 0.024 0.5 (0.0)
olvi4* 1.0 0.978 0.75 (1.0)
cmyn4* 0.0 0.024 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 92.04 -2.3 47.67
LAB*LABa 92.04 -1.39 43.14
LAB*TCHa 75.0 43.16 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.963 0.5 (1.0)
cmyn3* 0.0 0.037 0.75 (0.0)
olvi4* 1.0 0.963 0.5 (1.0)
cmyn4* 0.0 0.037 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 90.36 -2.96 69.13
LAB*LABa 90.36 -2.08 64.71
LAB*TCHa 62.5 64.74 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.951 0.0 (1.0)
cmyn3* 0.0 0.049 1.0 (0.0)
olvi4* 1.0 0.951 0.0 (1.0)
cmyn4* 0.0 0.049 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 88.68 -3.62 90.58
LAB*LABa 88.68 -2.77 86.27
LAB*TCHa 50.0 86.32 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.939 0.0 (1.0)
cmyn3* 0.0 0.051 0.0 (0.0)
olvi4* 1.0 0.939 0.0 (1.0)
cmyn4* 0.0 0.051 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 86.19 -4.38 91.86
LAB*LABa 86.19 -3.82 87.69
LAB*TCHa 50.0 87.73 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.926 0.0 (1.0)
cmyn3* 0.0 0.058 0.0 (0.0)
olvi4* 1.0 0.926 0.0 (1.0)
cmyn4* 0.0 0.058 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 84.89 -5.00 91.83
LAB*LABa 84.89 -4.44 87.69
LAB*TCHa 50.0 88.73 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.911 0.0 (1.0)
cmyn3* 0.0 0.065 0.0 (0.0)
olvi4* 1.0 0.911 0.0 (1.0)
cmyn4* 0.0 0.065 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 83.19 -5.62 91.83
LAB*LABa 83.19 -5.06 87.69
LAB*TCHa 50.0 89.73 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.896 0.0 (1.0)
cmyn3* 0.0 0.072 0.0 (0.0)
olvi4* 1.0 0.896 0.0 (1.0)
cmyn4* 0.0 0.072 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 81.69 -6.25 91.83
LAB*LABa 81.69 -5.69 87.69
LAB*TCHa 50.0 90.73 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.881 0.0 (1.0)
cmyn3* 0.0 0.079 0.0 (0.0)
olvi4* 1.0 0.881 0.0 (1.0)
cmyn4* 0.0 0.079 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.19 -6.87 91.83
LAB*LABa 80.19 -6.31 87.69
LAB*TCHa 50.0 91.73 91.85

relative Inform. Technology (IT)
olvi3* 1.0 0.866 0.0 (1.0)
cmyn3* 0.0 0.086 0.0 (0.0)
olvi4* 1.0 0.866 0.0 (1.0)
cmyn4* 0.0 0.086 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 78.69 -7.50 91.83
LAB*LABa 78.69 -6.94 87.69
LAB*TCHa 50.0 92.73 91.85

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 75.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.75 0.738 0.5 (1.0)
cmyn3* 0.25 0.262 0.5 (0.0)
olvi4* 1.0 0.988 0.75 (0.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 74.38 -0.68 21.57
LAB*LABa 74.38 -0.68 21.57
LAB*TCHa 62.5 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.726 0.25 (1.0)
cmyn3* 0.25 0.274 0.75 (0.0)
olvi4* 1.0 0.978 0.75 (0.0)
cmyn4* 0.0 0.024 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 72.7 -1.92 46.37
LAB*LABa 72.7 -1.38 43.14
LAB*TCHa 50.0 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.713 0.0 (1.0)
cmyn3* 0.25 0.274 0.75 (0.0)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 71.02 -2.07 64.7
LAB*LABa 71.02 -2.07 64.7
LAB*TCHa 37.51 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.685 0.0 (1.0)
cmyn3* 0.25 0.287 1.0 (0.0)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 69.13 -2.59 67.62
LAB*LABa 69.13 -2.59 67.62
LAB*TCHa 37.51 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.673 0.0 (1.0)
cmyn3* 0.25 0.287 1.0 (0.0)
olvi4* 1.0 0.951 0.0 (1.0)
cmyn4* 0.0 0.049 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 67.62 -3.25 69.13
LAB*LABa 67.62 -3.25 69.13
LAB*TCHa 37.51 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.658 0.0 (1.0)
cmyn3* 0.25 0.294 0.75 (0.0)
olvi4* 1.0 0.939 0.0 (1.0)
cmyn4* 0.0 0.051 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 65.19 -3.82 91.86
LAB*LABa 65.19 -3.82 87.69
LAB*TCHa 37.51 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.645 0.0 (1.0)
cmyn3* 0.25 0.299 0.75 (0.0)
olvi4* 1.0 0.926 0.0 (1.0)
cmyn4* 0.0 0.058 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 63.69 -4.38 91.86
LAB*LABa 63.69 -4.38 87.69
LAB*TCHa 37.51 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.632 0.0 (1.0)
cmyn3* 0.25 0.306 0.75 (0.0)
olvi4* 1.0 0.911 0.0 (1.0)
cmyn4* 0.0 0.065 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 62.19 -4.96 91.86
LAB*LABa 62.19 -4.96 87.69
LAB*TCHa 37.51 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.619 0.0 (1.0)
cmyn3* 0.25 0.313 0.75 (0.0)
olvi4* 1.0 0.896 0.0 (1.0)
cmyn4* 0.0 0.072 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 60.69 -5.54 91.86
LAB*LABa 60.69 -5.54 87.69
LAB*TCHa 37.51 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.606 0.0 (1.0)
cmyn3* 0.25 0.320 0.75 (0.0)
olvi4* 1.0 0.881 0.0 (1.0)
cmyn4* 0.0 0.079 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 59.19 -6.12 91.86
LAB*LABa 59.19 -6.12 87.69
LAB*TCHa 37.51 64.74 91.84

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*LABa 56.71 0.0 0.0
LAB*TCHa 50.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.5 0.488 0.25 (1.0)
cmyn3* 0.5 0.512 0.25 (0.0)
olvi4* 1.0 0.988 0.75 (0.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 55.03 -0.89 31.56
LAB*LABa 55.03 -0.89 31.56
LAB*TCHa 37.5 21.58 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.476 0.0 (1.0)
cmyn3* 0.5 0.524 1.0 (0.0)
olvi4* 1.0 0.978 0.75 (0.0)
cmyn4* 0.0 0.024 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 53.35 -1.38 43.13
LAB*LABa 53.35 -1.38 43.13
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.463 0.0 (1.0)
cmyn3* 0.5 0.537 1.0 (0.0)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 51.67 -1.92 46.37
LAB*LABa 51.67 -1.92 46.37
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.451 0.0 (1.0)
cmyn3* 0.5 0.549 1.0 (0.0)
olvi4* 1.0 0.951 0.0 (1.0)
cmyn4* 0.0 0.049 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 50.19 -2.50 48.68
LAB*LABa 50.19 -2.50 48.68
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.439 0.0 (1.0)
cmyn3* 0.5 0.561 1.0 (0.0)
olvi4* 1.0 0.939 0.0 (1.0)
cmyn4* 0.0 0.051 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.69 -3.08 51.67
LAB*LABa 48.69 -3.08 51.67
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.426 0.0 (1.0)
cmyn3* 0.5 0.574 1.0 (0.0)
olvi4* 1.0 0.926 0.0 (1.0)
cmyn4* 0.0 0.058 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 47.19 -3.66 54.19
LAB*LABa 47.19 -3.66 54.19
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.414 0.0 (1.0)
cmyn3* 0.5 0.586 1.0 (0.0)
olvi4* 1.0 0.911 0.0 (1.0)
cmyn4* 0.0 0.065 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 45.69 -4.24 56.69
LAB*LABa 45.69 -4.24 56.69
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.401 0.0 (1.0)
cmyn3* 0.5 0.599 1.0 (0.0)
olvi4* 1.0 0.896 0.0 (1.0)
cmyn4* 0.0 0.072 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 44.19 -4.82 59.19
LAB*LABa 44.19 -4.82 59.19
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.389 0.0 (1.0)
cmyn3* 0.5 0.611 1.0 (0.0)
olvi4* 1.0 0.881 0.0 (1.0)
cmyn4* 0.0 0.079 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 42.69 -5.40 61.69
LAB*LABa 42.69 -5.40 61.69
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.376 0.0 (1.0)
cmyn3* 0.5 0.624 1.0 (0.0)
olvi4* 1.0 0.866 0.0 (1.0)
cmyn4* 0.0 0.086 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 41.19 -5.98 64.19
LAB*LABa 41.19 -5.98 64.19
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.25 0.238 0.1 (1.0)
olvi4* 1.0 0.988 0.75 (0.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 35.68 -0.52 22.29
LAB*LABa 35.68 -0.68 21.56
LAB*TCHa 12.5 21.57 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.228 0.0 (1.0)
olvi4* 1.0 0.978 0.75 (0.0)
cmyn4* 0.0 0.024 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 34.13 -0.92 46.37
LAB*LABa 34.13 -0.92 46.37
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.216 0.0 (1.0)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 32.63 -1.40 48.68
LAB*LABa 32.63 -1.40 48.68
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.204 0.0 (1.0)
olvi4* 1.0 0.951 0.0 (1.0)
cmyn4* 0.0 0.049 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 31.13 -1.98 51.67
LAB*LABa 31.13 -1.98 51.67
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.192 0.0 (1.0)
olvi4* 1.0 0.939 0.0 (1.0)
cmyn4* 0.0 0.051 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 29.63 -2.56 54.19
LAB*LABa 29.63 -2.56 54.19
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.180 0.0 (1.0)
olvi4* 1.0 0.926 0.0 (1.0)
cmyn4* 0.0 0.058 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 28.13 -3.14 56.69
LAB*LABa 28.13 -3.14 56.69
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.168 0.0 (1.0)
olvi4* 1.0 0.911 0.0 (1.0)
cmyn4* 0.0 0.065 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 26.63 -3.72 59.19
LAB*LABa 26.63 -3.72 59.19
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.156 0.0 (1.0)
olvi4* 1.0 0.896 0.0 (1.0)
cmyn4* 0.0 0.072 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.13 -4.30 61.69
LAB*LABa 25.13 -4.30 61.69
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.144 0.0 (1.0)
olvi4* 1.0 0.881 0.0 (1.0)
cmyn4* 0.0 0.079 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.63 -4.88 64.19
LAB*LABa 23.63 -4.88 64.19
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.132 0.0 (1.0)
olvi4* 1.0 0.866 0.0 (1.0)
cmyn4* 0.0 0.086 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 22.13 -5.46 66.69
LAB*LABa 22.13 -5.46 66.69
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.46
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.25 0.238 0.1 (1.0)
olvi4* 1.0 0.988 0.75 (0.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 35.68 -0.52 22.29
LAB*LABa 35.68 -0.68 21.56
LAB*TCHa 12.5 21.57 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.228 0.0 (1.0)
olvi4* 1.0 0.978 0.75 (0.0)
cmyn4* 0.0 0.024 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 34.13 -0.92 46.37
LAB*LABa 34.13 -0.92 46.37
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.216 0.0 (1.0)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 32.63 -1.40 48.68
LAB*LABa 32.63 -1.40 48.68
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.204 0.0 (1.0)
olvi4* 1.0 0.951 0.0 (1.0)
cmyn4* 0.0 0.049 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 31.13 -1.98 51.67
LAB*LABa 31.13 -1.98 51.67
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.192 0.0 (1.0)
olvi4* 1.0 0.939 0.0 (1.0)
cmyn4* 0.0 0.051 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 29.63 -2.56 54.19
LAB*LABa 29.63 -2.56 54.19
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.180 0.0 (1.0)
olvi4* 1.0 0.926 0.0 (1.0)
cmyn4* 0.0 0.058 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 28.13 -3.14 56.69
LAB*LABa 28.13 -3.14 56.69
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.168 0.0 (1.0)
olvi4* 1.0 0.911 0.0 (1.0)
cmyn4* 0.0 0.065 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 26.63 -3.72 59.19
LAB*LABa 26.63 -3.72 59.19
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.156 0.0 (1.0)
olvi4* 1.0 0.896 0.0 (1.0)
cmyn4* 0.0 0.072 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 25.13 -4.30 61.69
LAB*LABa 25.13 -4.30 61.69
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.144 0.0 (1.0)
olvi4* 1.0 0.881 0.0 (1.0)
cmyn4* 0.0 0.079 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 23.63 -4.88 64.19
LAB*LABa 23.63 -4.88 64.19
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.132 0.0 (1.0)
olvi4* 1.0 0.866 0.0 (1.0)
cmyn4* 0.0 0.086 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 22.13 -5.46 66.69
LAB*LABa 22.13 -5.46 66.69
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 18.02 0.0 0.46
LAB*LABa 18.02 0.0 0.46
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.25 0.238 0.1 (1.0)
olvi4* 1.0 0.988 0.75 (0.0)
cmyn4* 0.0 0.012 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 35.68 -0.52

Input: Colorimetric Reflective System MRS18

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

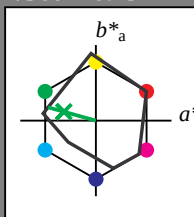
lab^*tch and lab^*nch

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*LABb 99.99 0.01 0.0

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

relative Inform. Technology (IT)
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*LABb 75.00 0.01 0.0

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

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

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.5 (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 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 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 (0.0)
lab*tce 0.0 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 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 (0.0)
lab*tce 0.0 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* 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 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 (0.0)
lab*tce 0.0 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* 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 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 (0.0)
lab*tce 0.0 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* 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 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 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 0.0 0.0

UE55-7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

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

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

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

%Regularity

	$L^*=L^*_a$	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

	$L^*=L^*_a$	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
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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

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System ORS18

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

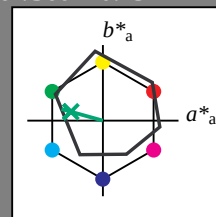
lab^*tch and lab^*nch

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*LABb 99.99 0.01 0.0

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

relative Inform. Technology (IT)
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*LABb 75.00 0.01 0.0

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

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

relative CIELAB lab*
lab*lab 0.5 0.5 0.5 (0.0)
lab*tch 0.5 0.5 0.5 (0.0)
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.5 0.5 0.5 (0.0)
lab*tce 0.5 0.5 0.5 (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 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 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 (0.0)
lab*tce 0.0 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 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.38 0.83
LAB*LABa 37.36 0.0 0.0
LAB*LABb 25.00 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 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 (0.0)
lab*tce 0.0 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* 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 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 (0.0)
lab*tce 0.0 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* 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 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 (0.0)
lab*tce 0.0 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* 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 18.02 0.0 0.0
LAB*LABa 18.02 0.0 0.0
LAB*LABb 0.01 0.01 0.0

relative CIELAB lab*
lab*lab 0.0 0.0 0.0 (0.0)
lab*tch 0.0 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 (0.0)
lab*tce 0.0 0.0 0.0 (0.0)
lab*nce 0.0 0.0 0.0

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

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

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

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

%Regularity

	$L^*=L^*_a$
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