

Input: Colorimetric Reflective System MRS18

for hue $h^* = lab^*h = 94/360 = 0.261$

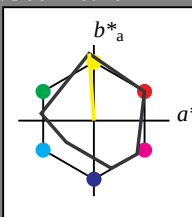
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

rgb*Ma: 1.0 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
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)
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 47.5
LAB*LABa 95.41 0.0 0.0
LAB*TC_{Ma} 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 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 94.22 -2.54 26.86
LAB*LABa 94.22 -1.58 22.18
LAB*TC_{Ma} 87.5 22.24 94.1

relative CIELAB lab*
lab*lab 0.985 -0.017 0.249
lab*tch 0.875 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*trj 0.985 -0.011 0.25
lab*tce 0.875 0.25 0.258
lab*nce 0.0 0.25 0.258

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 3.44
LAB*TC_{Ma} 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 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 0.75 (1.0)
cmyn4* 0.0 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 74.88 -2.17 25.56
LAB*LABa 74.88 -1.58 22.19
LAB*TC_{Ma} 62.5 22.24 94.1

relative CIELAB lab*
lab*lab 0.969 -0.035 0.499
lab*tch 0.75 0.5 0.261
lab*nch 0.0 0.5 0.261
relative Natural Colour (NC)
lab*trj 0.969 -0.023 0.499
lab*tce 0.75 0.5 0.258
lab*nce 0.0 0.5 0.258

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 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 56.71 -0.23 2.14
LAB*LABa 56.71 0.0 2.14
LAB*TC_{Ma} 50.0 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*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 0.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 73.7 -3.74 47.67
LAB*LABa 73.7 -3.17 44.38
LAB*TC_{Ma} 50.0 44.49 94.1

relative CIELAB lab*
lab*lab 0.954 -0.053 0.748
lab*tch 0.625 0.75 0.261
lab*nch 0.0 0.75 0.261
relative Natural Colour (NC)
lab*trj 0.954 -0.036 0.749
lab*tce 0.625 0.75 0.258
lab*nce 0.0 0.75 0.258

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 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 37.36 -0.33 0.83
LAB*LABa 37.36 0.0 0.83
LAB*TC_{Ma} 30.0 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*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* 0.5 0.5 0.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 44.35 -3.37 46.36
LAB*LABa 44.35 -3.17 44.38
LAB*TC_{Ma} 25.01 44.48 94.1

relative CIELAB lab*
lab*lab 0.704 -0.053 0.748
lab*tch 0.375 0.75 0.261
lab*nch 0.0 0.75 0.261
relative Natural Colour (NC)
lab*trj 0.704 -0.036 0.749
lab*tce 0.375 0.75 0.258
lab*nce 0.0 0.75 0.258

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 0.46
LAB*TC_{Ma} 0.01 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.0 (1.0)
cmyn3* 0.75 0.75 0.0 (0.0)
olvi4* 1.0 1.0 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 36.18 -1.43 22.94
LAB*LABa 36.18 -1.58 22.18
LAB*TC_{Ma} 12.5 22.24 94.1

relative CIELAB lab*
lab*lab 0.485 -0.011 0.25
lab*tch 0.375 0.25 0.261
lab*nch 0.0 0.25 0.261
relative Natural Colour (NC)
lab*trj 0.485 -0.023 0.25
lab*tce 0.375 0.25 0.258
lab*nce 0.0 0.25 0.258

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 0.46
LAB*TC_{Ma} 0.01 0.01 0.0

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

Output: Colorimetric Reflective System NCS11

for hue $h^* = lab^*h = 91/360 = 0.252$

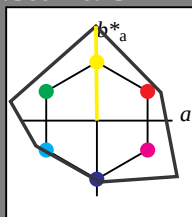
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 125 91

rgb*Ma: 1.0 1.0 0.0

triangle lightness t^*



NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

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 0.0 -0.01
LAB*LABa 95.41 0.0 0.0
LAB*TC_{Ma} 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 1.0 0.5 (1.0)
cmyn3* 0.0 0.0 0.5 (0.0)
olvi4* 1.0 1.0 0.5 (1.0)
cmyn4* 0.0 0.0 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 94.39 -0.3 31.24
LAB*LABa 94.39 -0.31 31.24
LAB*TC_{Ma} 87.5 31.25 90.59

relative CIELAB lab*
lab*lab 0.988 -0.002 0.25
lab*tch 0.875 0.25 0.252
lab*nch 0.0 0.25 0.252
relative Natural Colour (NC)
lab*trj 0.988 0.01 0.25
lab*tce 0.875 0.25 0.243
lab*nce 0.0 0.25 0.243

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 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 74.31 0.02 0.0
LAB*LABa 74.31 0.0 0.0
LAB*TC_{Ma} 75.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.976 -0.004 0.5
lab*tch 0.75 0.5 0.252
lab*nch 0.0 0.5 0.252
relative Natural Colour (NC)
lab*trj 0.976 0.02 0.499
lab*tce 0.75 0.5 0.243
lab*nce 0.0 0.5 0.243

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 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.04 0.0
LAB*LABa 53.21 0.0 0.0
LAB*TC_{Ma} 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.939 -0.071 0.997
lab*tch 0.5 1.0 0.261
lab*nch 0.0 1.0 0.261
relative Natural Colour (NC)
lab*trj 0.939 -0.048 0.999
lab*tce 0.5 1.0 0.243
lab*nce 0.0 1.0 0.243

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 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 31.21 0.25 0.43
LAB*LABa 31.21 0.25 0.43
LAB*TC_{Ma} 37.5 31.26 90.59

relative CIELAB lab*
lab*lab 0.488 -0.004 0.5
lab*tch 0.375 0.25 0.252
lab*nch 0.0 0.25 0.252
relative Natural Colour (NC)
lab*trj 0.488 0.01 0.25
lab*tce 0.375 0.25 0.243
lab*nce 0.0 0.25 0.243

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 11.01 0.0 0.0
LAB*LABa 11.01 0.0 0.0
LAB*TC_{Ma} 0.0 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.25 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 0.75 (1.0)
cmyn4* 0.0 0.0 0.75 (0.0)
standard and adapted CIELAB
LAB*LAB 72.29 -0.6 62.52
LAB*LABa 72.29 -0.63 62.51
LAB*TC_{Ma} 50.0 62.52 90.59

relative CIELAB lab*
lab*lab 0.976 -0.004 0.5
lab*tch 0.75 0.5 0.252
lab*nch 0.0 0.5 0.252
relative Natural Colour (NC)
lab*trj 0.976 0.02 0.5
lab*tce 0.75 0.5 0.243
lab*nce 0.0 0.5 0.243

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 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 53.21 0.04 0.0
LAB*LABa 53.21 0.0 0.0
LAB*TC_{Ma} 50.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.939 -0.071 0.997
lab*tch 0.5 1.0 0.261
lab*nch 0.0 1.0 0.261
relative Natural Colour (NC)
lab*trj 0.939 -0.048 0.999
lab*tce 0.5 1.0 0.243
lab*nce 0.0 1.0 0.243

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 0.25 (1.0)
cmyn4* 0.0 0.0 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 31.21 0.25 0.43
LAB*LABa 31.21 0.25 0.43
LAB*TC_{Ma} 37.5 31.26 90.59

relative CIELAB lab*
lab*lab 0.488 -0.004 0.5
lab*tch 0.375 0.25 0.252
lab*nch 0.0 0.25 0.252
relative Natural Colour (NC)
lab*trj 0.488 0.01 0.25
lab*tce 0.375 0.25 0.243
lab*nce 0.0 0.25 0.243

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 11.01 0.0 0.0
LAB*LABa 11.01 0.0 0.0
LAB*TC_{Ma} 0.0 0.01 0.0

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

UE53-7, 5 step scales for constant CIELAB hue 94/360 = 0.261 (left)

5 step scales for constant CIELAB hue 91/360 = 0.252 (right)

BAM-test chart UE53; Colorimetric systems MRS18 & NCS11a input: cmy0* setcmykcolor

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

output: no change compared to input

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output: *no change* compared to input

Input: Colorimetric Reflective System MRS18

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

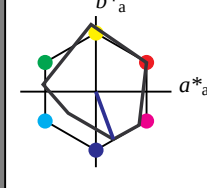
lab^*tch and lab^*nch

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
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)
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*TC_{Ma} 99.99 0.01

relative Inform. Technology (IT)
olvi3* 0.75 0.75 1.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olvi4* 0.75 0.75 1.0 (1.0)
cmyn4* 0.25 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 80.72 5.1 -11.98
LAB*LABa 80.72 5.9 -15.75
LAB*TC_{Ma} 87.5 16.79 290.19

relative Inform. Technology (IT)
olvi3* 0.5 0.5 1.0 (1.0)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 0.5 0.5 1.0 (1.0)
cmyn4* 0.5 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 66.03 11.17 -28.74
LAB*LABa 66.03 11.29 -31.51
LAB*TC_{Ma} 75.0 33.59 290.19

relative Inform. Technology (IT)
olvi3* 0.25 0.25 1.0 (1.0)
cmyn3* 0.25 0.25 0.0 (0.0)
olvi4* 0.25 0.25 1.0 (1.0)
cmyn4* 0.25 0.25 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 51.34 17.25 -45.49
LAB*LABa 51.34 17.39 -47.28
LAB*TC_{Ma} 62.5 50.38 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.18 -63.03
LAB*LABa 36.65 23.19 -63.03
LAB*TC_{Ma} 50.0 67.17 290.19

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.5 (0.5)
cmyn3* 0.5 0.5 0.0 (0.0)
olvi4* 0.25 0.25 0.5 (0.5)
cmyn4* 0.5 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 36.65 23.18 -63.03
LAB*LABa 36.65 23.19 -63.03
LAB*TC_{Ma} 50.0 67.17 290.19

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*TC_{Ma} 75.0 0.01

relative Inform. Technology (IT)
olvi3* 0.5 0.5 0.75 (1.0)
cmyn3* 0.5 0.5 0.25 (0.0)
olvi4* 0.75 0.75 1.0 (0.75)
cmyn4* 0.5 0.5 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 61.37 5.47 -13.29
LAB*LABa 61.37 5.8 15.75
LAB*TC_{Ma} 62.5 16.8 290.19

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.5 0.5 1.0 0.75
cmyn4* 0.5 0.5 0.0 0.25
standard and adapted CIELAB
LAB*LAB 46.68 11.39 -31.52
LAB*LABa 46.68 11.39 -31.52
LAB*TC_{Ma} 50.0 33.59 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.75 (1.0)
cmyn3* 0.0 0.0 0.25 (0.0)
olvi4* 0.0 0.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 32.0 17.62 -46.8
LAB*LABa 32.0 17.39 -47.28
LAB*TC_{Ma} 37.5 50.38 290.19

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.5 0.5 0.5 (0.0)
olvi4* 0.25 0.25 0.25 (0.5)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 32.0 17.62 -46.8
LAB*LABa 32.0 17.39 -47.28
LAB*TC_{Ma} 37.5 50.38 290.19

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.25 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 32.0 17.62 -46.8
LAB*LABa 32.0 17.39 -47.28
LAB*TC_{Ma} 37.5 50.38 290.19

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*TC_{Ma} 50.0 0.01

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.5 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 0.5 0.5 1.0 0.5
cmyn4* 0.25 0.25 0.25 (0.0)
standard and adapted CIELAB
LAB*LAB 42.02 5.8 -14.6
LAB*LABa 42.02 5.8 -15.75
LAB*TC_{Ma} 37.5 16.8 290.19

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

relative Inform. Technology (IT)
olvi3* 0.181 0.086 -0.703
lab*lab 0.31 0.086 -0.234
lab*tch 0.375 0.25 0.806
lab*nch 0.25 0.75 0.806
relative Natural Colour (NC)
lab*trj 0.31 0.086 -0.241
lab*trc 0.375 0.25 0.806
lab*ncc 0.25 0.75 0.806

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0 46
LAB*LABa 18.02 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LABa 11.01 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

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 11.92 -31.35
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0 46
LAB*LABa 18.02 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0 46
LAB*LABa 18.02 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LABa 11.01 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LABa 11.01 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LABa 11.01 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0 46
LAB*LABa 18.02 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0 46
LAB*LABa 18.02 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0 46
LAB*LABa 18.02 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 0.0 0.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 0.0
standard and adapted CIELAB
LAB*LAB 18.02 18.02 0.0 46
LAB*LABa 18.02 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

UE53--7, 5 step scales for constant CIELAB hue 290/360 = 0.806 (left)

5 step scales for constant CIELAB hue 273/360 = 0.757 (right)

BAM-test chart UE53; Colorimetric systems MRS18 & NCS11a input: *cmv0* setcmvcolor*

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

output: no change compared to input

chromaticness c^*

1

output: *no change compared to input*

Input: Colorimetric Reflective System MRS18

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

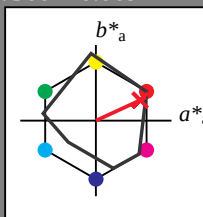
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

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

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

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

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

Output: Colorimetric Reflective System NCS11

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

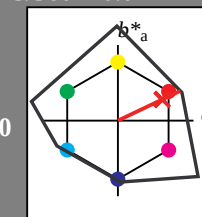
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 91 25

rgb*Ma: 1.0 0.02 0.0

triangle lightness t^*



NCS11; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50B _{Ma}	59.47	-80.6	-33.45	87.28	203
B _{Ma}	49.01	3.65	-81.19	81.28	273
B50R _{Ma}	44.06	106.09	-73.93	129.32	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$

$g^*_{C,rel} = 65$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 1.0$

chromaticness c^*

UE53-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

BAM-test chart UE53; Colorimetric systems MRS18 & NCS11a input: $cmy0^* setcmykcolor$

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

output: no change compared to input

Input: Colorimetric Reflective System MRS18

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

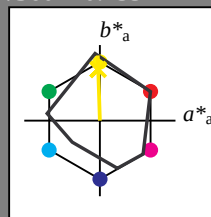
lab^*tch and lab^*nch

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 47.5
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 0.75 (1.0)
cmyn3* 0.0 0.037 0.75 (0.0)
olvi4* 1.0 0.963 0.75 (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 0.075 1.0 (0.0)
olvi4* 1.0 0.939 0.0 (1.0)
cmyn4* 0.0 0.075 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 86.25 -4.37 91.85
LAB*LABa 86.25 -3.43 87.32
LAB*TCHa 37.5 87.32 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 (0.75)
cmyn4* 0.0 0.012 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 74.38 -1.26 24.91
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 (0.75)
olvi4* 1.0 0.978 0.75 (0.75)
cmyn4* 0.0 0.024 0.5 (0.25)
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 (0.75)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.25)
standard and adapted CIELAB
LAB*LAB 71.02 -2.59 67.82
LAB*LABa 71.02 -2.07 64.7
LAB*TCHa 37.5 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.707 0.0 (1.0)
cmyn3* 0.25 0.287 1.0 (1.0)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.25)
standard and adapted CIELAB
LAB*LAB 69.13 -3.15 69.13
LAB*LABa 69.13 -2.21 64.7
LAB*TCHa 37.5 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.75 0.695 0.0 (1.0)
cmyn3* 0.25 0.299 1.0 (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 67.82 -3.82 91.85
LAB*LABa 67.82 -2.88 87.32
LAB*TCHa 37.5 87.32 91.85

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 50.0 0.01 -

relative Inform. Technology (IT)
olvi3* 0.5 0.488 0.25 (1.0)
cmyn3* 0.5 0.512 0.75 (0.0)
olvi4* 1.0 0.988 0.75 (0.75)
cmyn4* 0.0 0.012 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 55.03 -0.89 31.36
LAB*LABa 55.03 -0.68 21.57
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 (1.0)
olvi4* 1.0 0.978 0.75 (0.75)
cmyn4* 0.0 0.024 0.5 (0.25)
standard and adapted CIELAB
LAB*LAB 53.35 -1.52 45.05
LAB*LABa 53.35 -1.38 43.13
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.468 0.0 (1.0)
cmyn3* 0.5 0.532 1.0 (1.0)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.25)
standard and adapted CIELAB
LAB*LAB 51.96 -2.29 67.82
LAB*LABa 51.96 -2.07 64.7
LAB*TCHa 37.5 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.5 0.457 0.0 (1.0)
cmyn3* 0.5 0.541 1.0 (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 50.01 -3.01 91.85
LAB*LABa 50.01 -2.07 86.27
LAB*TCHa 37.5 86.32 91.85

relative Inform. Technology (IT)
olvi3* 0.5 0.445 0.0 (1.0)
cmyn3* 0.5 0.549 1.0 (1.0)
olvi4* 1.0 0.939 0.0 (1.0)
cmyn4* 0.0 0.075 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 48.68 -3.72 91.85
LAB*LABa 48.68 -2.77 86.27
LAB*TCHa 37.5 86.32 91.85

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 -0.83 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)
cmyn3* 0.75 0.762 0.1 (0.0)
olvi4* 1.0 0.988 0.75 (0.75)
cmyn4* 0.0 0.012 0.25 (0.25)
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)
cmyn3* 0.75 0.772 0.1 (0.0)
olvi4* 1.0 0.978 0.75 (0.75)
cmyn4* 0.0 0.024 0.5 (0.25)
standard and adapted CIELAB
LAB*LAB 34.31 -1.05 45.05
LAB*LABa 34.31 -1.38 43.13
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.216 0.0 (1.0)
cmyn3* 0.75 0.784 0.1 (0.0)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.25)
standard and adapted CIELAB
LAB*LAB 32.98 -1.72 67.82
LAB*LABa 32.98 -2.07 64.7
LAB*TCHa 37.5 64.74 91.84

relative Inform. Technology (IT)
olvi3* 0.25 0.204 0.0 (1.0)
cmyn3* 0.75 0.796 0.1 (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 31.65 -2.42 91.85
LAB*LABa 31.65 -2.77 86.27
LAB*TCHa 37.5 86.32 91.85

relative Inform. Technology (IT)
olvi3* 0.25 0.192 0.0 (1.0)
cmyn3* 0.75 0.808 0.1 (0.0)
olvi4* 1.0 0.939 0.0 (1.0)
cmyn4* 0.0 0.075 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 30.32 -3.12 91.85
LAB*LABa 30.32 -2.88 87.32
LAB*TCHa 37.5 87.32 91.85

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 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.988 0.75 (0.75)
olvi4* 1.0 0.978 0.75 (0.75)
cmyn4* 0.0 0.012 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 16.29 -0.22 22.29
LAB*LABa 16.29 -0.68 21.56
LAB*TCHa 12.5 21.57 91.84

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.978 0.75 (0.75)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.25)
standard and adapted CIELAB
LAB*LAB 14.96 -0.83 67.82
LAB*LABa 14.96 -1.38 43.13
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.963 0.25 (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 13.63 -1.42 91.85
LAB*LABa 13.63 -2.07 86.27
LAB*TCHa 37.5 86.32 91.85

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.951 0.0 (1.0)
olvi4* 1.0 0.939 0.0 (1.0)
cmyn4* 0.0 0.075 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 12.30 -2.12 91.85
LAB*LABa 12.30 -2.88 87.32
LAB*TCHa 37.5 87.32 91.85

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.939 0.0 (1.0)
olvi4* 1.0 0.927 0.0 (1.0)
cmyn4* 0.0 0.100 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 11.01 0.0 0.0
LAB*LABa 11.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

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 11.01 0.0 0.0
LAB*LABa 11.01 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.988 0.75 (0.75)
olvi4* 1.0 0.978 0.75 (0.75)
cmyn4* 0.0 0.012 0.25 (0.25)
standard and adapted CIELAB
LAB*LAB 9.28 -0.22 22.29
LAB*LABa 9.28 -0.68 21.56
LAB*TCHa 12.5 21.57 91.84

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.978 0.75 (0.75)
olvi4* 1.0 0.963 0.25 (1.0)
cmyn4* 0.0 0.037 0.75 (0.25)
standard and adapted CIELAB
LAB*LAB 7.95 -0.83 67.82
LAB*LABa 7.95 -1.38 43.13
LAB*TCHa 25.01 43.16 91.84

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.963 0.25 (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 6.62 -1.42 91.85
LAB*LABa 6.62 -2.07 86.27
LAB*TCHa 37.5 86.32 91.85

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
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olvi4* 1.0 0.939 0.0 (1.0)
cmyn4* 0.0 0.075 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 5.29 -2.12 91.85
LAB*LABa 5.29 -2.88 87.32
LAB*TCHa 37.5 87.32 91.85

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 0.939 0.0 (1.0)
olvi4* 1.0 0.927 0.0 (1.0)
cmyn4* 0.0 0.100 1.0 (0.0)
standard and adapted CIELAB
LAB*LAB 4.00 0.0 0.0
LAB*LABa 4.00 0.0 0.0
LAB*TCHa 0.01 0.01 -

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 4.00 0.0 0.0
LAB*LABa 4.00 0.0 0.0
LAB*TCHa 0.01 0.01 -

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standard and adapted CIELAB
LAB*LAB 1.00 0.0 0.0
LAB*LABa 1.00 0.0 0.0
LAB*TCHa 0.01 0.01 -

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