

Input: Colorimetric Reflective System MRS18

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

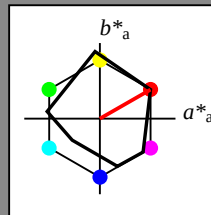
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)
olvi3* 1.0 1.0 1.0 (1.0)
cmyn3* 0.0 0.0 0.0 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 95.41 -0.97 4.75
LAB*LABa 95.41 0.0 0.0
LAB*TCHa 99.99 0.01 0.0

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 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* 0.5 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 0.0

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (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 0.3 0.83
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 0.0

relative CIELAB lab*
lab*lab 0.25 0.0 0.0
lab*tch 0.25 0.0 0.0
lab*nch 0.0 0.0 0.0
relative Natural Colour (NC)
lab*trj 0.25 0.0 0.0
lab*tce 0.25 0.0 0.0
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)
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 0.5 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 0.0

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

$n^* = 1.0$

MRS18; adapted (a) CIELAB data

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

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

% Regularity

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

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

relative Inform. Technology (IT)
olvi3* 1.0 0.5 0.5 (1.0)
cmyn3* 0.0 0.5 0.5 (0.0)
olvi4* 1.0 0.5 0.5 (1.0)
cmyn4* 0.0 0.0 0.0 (0.0)
standard and adapted CIELAB
LAB*LAB 72.52 32.93 22.4
LAB*LABa 72.52 33.47 19.18
LAB*TCHa 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* 0.75 0.0 0.0 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 53.17 33.31 21.09
LAB*LABa 53.17 33.48 19.19
LAB*TCHa 50.0 38.59 29.82

relative CIELAB lab*
lab*lab 0.534 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 0.534 0.496 0.06
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lab*nce 0.0 0.5 0.071

relative Inform. Technology (IT)
olvi3* 0.5 0.0 0.0 (1.0)
cmyn3* 0.5 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 41.73 50.26 29.91
LAB*LABa 41.73 50.21 28.78
LAB*TCHa 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 0.0 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 0.0 0.75 0.071

relative Inform. Technology (IT)
olvi3* 0.25 0.0 0.0 (1.0)
cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.5 0.25
standard and adapted CIELAB
LAB*LAB 33.82 33.67 19.79
LAB*LABa 33.82 33.47 19.18
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lab*lab 0.204 0.434 0.249
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relative Natural Colour (NC)
lab*trj 0.204 0.496 0.06
lab*tce 0.25 0.5 0.019
lab*nce 0.0 0.5 0.071

$n^* = 0.50$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System MRS18

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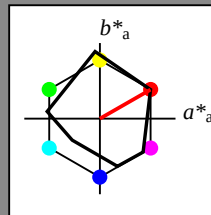
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 50 77 30

rgb*Ma: 1.0 0.0 0.0

triangle lightness t^*



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relative Natural Colour (NC)
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olvi3* 0.75 0.75 0.75 (1.0)
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relative Natural Colour (NC)
lab*trj 0.0 0.0 0.0
lab*tce 0.0 0.0 0.0
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$n^* = 1.0$

% Regularity

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

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

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olvi3* 1.0 0.5 0.5 (1.0)
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standard and adapted CIELAB
LAB*LAB 41.73 50.26 29.91
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relative CIELAB lab*
lab*lab 0.306 0.651 0.373
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olvi3* 0.25 0.0 0.0 (1.0)
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relative Natural Colour (NC)
lab*trj 0.204 0.496 0.06
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lab*nce 0.0 0.5 0.071

$n^* = 0.50$

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
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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
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lab*nce 0.0 0.5 0.071

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cmyn3* 0.25 0.75 0.75 (0.0)
olvi4* 1.0 0.5 0.5 0.75
cmyn4* 0.0 0.5 0.5 0.25
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relative Natural Colour (NC)
lab*trj 0.204 0.496 0.06
lab*tce 0.25 0.5 0.019
lab*nce 0.0 0.5 0.071

$n^* = 0.25$

$n^* = 0.00$

$n^* = 0.25$

$n^* = 0.50$

$n^* = 0.75$

$n^* = 1.00$

Input: Colorimetric Reflective System MRS18

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

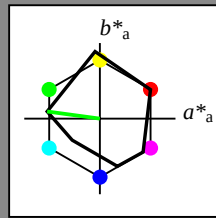
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



$u^*_{rel} = 91$

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
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N _{Ma}	18.01	0.0	0.0	0.0	0
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RCIE	39.92	58.66	26.98	64.56	25
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%Regularity

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

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

1.00

0.75

0.25

0.00

Output: Colorimetric Reflective System MRS18

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

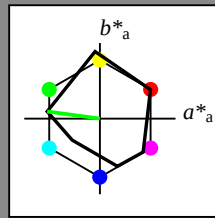
lab^*tch and lab^*nch

D65: hue G

LCH*Ma: 52 70 172

rgb*Ma: 0.0 1.0 0.0

triangle lightness t^*



$u^*_{rel} = 91$

MRS18; adapted (a) CIELAB data

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

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

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

1.00

0.75

0.25

0.00

UE540-7, 5 step scales for constant CIELAB hue 172/360 = 0.479 (left)

5 step scales for constant CIELAB hue 172/360 = 0.479 (right)

BAM-test chart UE54; Colorimetric systems MRS18 & MRS18

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

input: `cmv0* setcmvcolor`

output: `olw* setrgbcolor / w* setgray`

Input: Colorimetric Reflective System MRS18

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

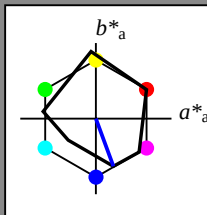
lab^*tch and lab^*nch

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 -

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

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

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

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
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 CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

MRS18; adapted (a) CIELAB data

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

% Regularity

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

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

relative Inform. Technology (IT)
olvi3* 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 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*lrj 0.62 0.129 -0.482
lab*tce 0.75 0.5 0.791
lab*nce 0.0 0.5 0.791

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 46.68 11.55 -30.05
LAB*LABa 46.68 11.55 -30.05
LAB*TCHa 50.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.37 0.173 -0.468
lab*tch 0.5 0.5 0.806
lab*nch 0.0 0.5 0.806
relative Natural Colour (NC)
lab*lrj 0.37 0.129 -0.482
lab*tce 0.5 0.5 0.791
lab*nce 0.0 0.5 0.791

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.59 -31.51
LAB*LABa 27.34 11.59 -31.51
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*lrj 0.12 0.129 -0.482
lab*tce 0.25 0.5 0.791
lab*nce 0.0 0.5 0.791

$n^* = 0.50$

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (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 CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 0.25$

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 51.34 17.25 -45.49
LAB*LABa 51.34 17.25 -45.49
LAB*TCHa 62.5 50.38 290.19

relative CIELAB lab*
lab*lab 0.431 0.193 -0.724
lab*tch 0.625 0.75 0.791
lab*nch 0.0 0.75 0.791
relative Natural Colour (NC)
lab*lrj 0.431 0.193 -0.724
lab*tce 0.625 0.75 0.791
lab*nce 0.0 0.75 0.791

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 0.0 0.0 (0.0)
cmyn4* 1.0 1.0 1.0 0.0
standard and adapted CIELAB
LAB*LAB 36.65 23.18 -63.03
LAB*LABa 36.65 23.18 -63.03
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*lrj 0.241 0.257 -0.965
lab*tce 0.5 1.0 0.791
lab*nce 0.0 1.0 0.791

$n^* = 0.00$

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 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
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 CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

chromaticness c^*

Output: Colorimetric Reflective System MRS18

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

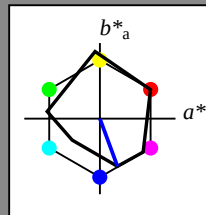
lab^*tch and lab^*nch

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 -

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

relative Inform. Technology (IT)
olvi3* 0.75 0.75 0.75 (1.0)
cmyn3* 0.25 0.25 0.25 (0.0)
olvi4* 1.0 1.0 1.0 0.75
cmyn4* 0.0 0.0 0.0 0.25
standard and adapted CIELAB
LAB*LAB 76.06 -0.6 3.44
LAB*LABa 76.06 0.0 0.0
LAB*TCHa 75.0 0.01 -

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

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

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

relative Inform. Technology (IT)
olvi3* 0.25 0.25 0.25 (1.0)
cmyn3* 0.75 0.75 0.75 (0.0)
olvi4* 1.0 1.0 1.0 0.25
cmyn4* 0.0 0.0 0.0 0.75
standard and adapted CIELAB
LAB*LAB 37.36 0.3 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TCHa 25.0 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
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 CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 0.0 -

$n^* = 1.0$

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 0.5
cmyn4* 0.0 0.0 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*lrj 0.62 0.129 -0.482
lab*tce 0.75 0.5 0.791
lab*nce 0.0 0.5 0.791

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 46.68 11.55 -30.05
LAB*LABa 46.68 11.55 -30.05
LAB*TCHa 50.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.37 0.173 -0.468
lab*tch 0.5 0.5 0.806
lab*nch 0.0 0.5 0.806
relative Natural Colour (NC)
lab*lrj 0.37 0.129 -0.482
lab*tce 0.5 0.5 0.791
lab*nce 0.0 0.5 0.791

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.59 -31.51
LAB*LABa 27.34 11.59 -31.51
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*lrj 0.12 0.129 -0.482
lab*tce 0.25 0.5 0.791
lab*nce 0.0 0.5 0.791

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 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

relative CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0.0 -
lab*nce 1.0 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 46.68 11.55 -30.05
LAB*LABa 46.68 11.55 -30.05
LAB*TCHa 50.0 33.59 290.19

relative CIELAB lab*
lab*lab 0.37 0.173 -0.468
lab*tch 0.5 0.5 0.806
lab*nch 0.0 0.5 0.806
relative Natural Colour (NC)
lab*lrj 0.37 0.129 -0.482
lab*tce 0.5 0.5 0.791
lab*nce 0.0 0.5 0.791

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 0.5 0.5 0.5 (0.0)
cmyn4* 0.5 0.5 0.5 (0.0)
standard and adapted CIELAB
LAB*LAB 27.34 11.59 -31.51
LAB*LABa 27.34 11.59 -31.51
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*lrj 0.12 0.129 -0.482
lab*tce 0.25 0.5 0.791
lab*nce 0.0 0.5 0.791

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 0.46
LAB*LABa 18.02 0.0 0.0
LAB*TCHa 0.01 0.01 -

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

relative Inform. Technology (IT)
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
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 CIELAB lab*
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 0.0
lab*nch 1.0 0.0 -
relative Natural Colour (NC)
lab*lrj 0.0 0.0 0.0
lab*tce 0.0 0

Input: Colorimetric Reflective System MRS18

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

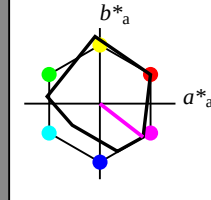
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



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	0.0	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	0.0	0.0
lab*tch	0.0	0.0	0.0
lab*nch	0.0	0.0	0.0

relative Natural Colour (NC)

lab*trj	0.75	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*	0.25	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	0.3	0.63
LAB*LABa	37.36	0.0	0.0
LAB*LABb	37.36	0.0	0.0

relative CIELAB lab*

lab*lab	0.25	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	0.25	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*	1.0	0.75	1.0	(1.0)
cmyn3*	0.0	0.25	0.0	(0.0)
olvi4*	1.0	0.75	1.0	(1.0)
cmyn4*	0.0	0.25	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	80.29	13.6	-7.31
LAB*LABa	80.29	14.29	-11.05
LAB*LABb	87.5	18.07	32.25

relative CIELAB lab*

lab*lab	0.895	0.198	-0.152
lab*tch	0.875	0.25	0.895
lab*nch	0.0	0.25	0.895

relative Natural Colour (NC)

lab*trj	0.895	0.162	-0.189
lab*tce	0.875	0.25	0.862
lab*nce	0.0	0.25	0.844

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	0.75	1.0	(1.0)
cmyn4*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	60.94	13.97	-8.62
LAB*LABa	60.94	14.29	-11.06
LAB*LABb	62.5	18.08	32.25

relative CIELAB lab*

lab*lab	0.555	0.162	-0.189
lab*tch	0.625	0.25	0.862
lab*nch	0.25	0.25	0.844

relative Inform. Technology (IT)

olvi3*	0.5	0.0	0.5	(1.0)
cmyn3*	0.5	0.75	0.5	(0.0)
olvi4*	1.0	0.75	1.0	(1.0)
cmyn4*	0.0	0.75	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	41.29	14.34	-9.93
LAB*LABa	41.29	14.29	-11.06
LAB*LABb	37.5	18.08	32.25

relative CIELAB lab*

lab*lab	0.305	0.198	-0.152
lab*tch	0.375	0.25	0.895
lab*nch	0.0	0.25	0.895

relative Natural Colour (NC)

lab*trj	0.305	0.162	-0.189
lab*tce	0.375	0.25	0.862
lab*nce	0.0	0.25	0.844

MRS18; adapted (a) CIELAB data

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

%Regularity

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

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

relative Inform. Technology (IT)

olvi3*	1.0	0.5	1.0	(1.0)
cmyn3*	0.0	0.5	0.0	(0.0)
olvi4*	1.0	0.5	1.0	(1.0)
cmyn4*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	65.17	28.18	-19.4
LAB*LABa	65.17	28.58	-22.12
LAB*LABb	75.0	36.15	32.25

relative CIELAB lab*

lab*lab	0.609	0.395	-0.305
lab*tch	0.75	0.5	0.895
lab*nch	0.0	0.5	0.895

relative Natural Colour (NC)

lab*trj	0.609	0.324	-0.38
lab*tce	0.75	0.5	0.862
lab*nce	0.0	0.5	0.844

relative Inform. Technology (IT)

olvi3*	0.75	0.25	0.75	(1.0)
cmyn3*	0.25	0.75	0.25	(0.0)
olvi4*	1.0	0.5	1.0	(1.0)
cmyn4*	0.0	0.5	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	45.83	28.56	-20.71
LAB*LABa	45.83	28.59	-22.12
LAB*LABb	50.0	36.15	32.25

relative CIELAB lab*

lab*lab	0.359	0.395	-0.305
lab*tch	0.5	0.5	0.895
lab*nch	0.0	0.5	0.895

relative Natural Colour (NC)

lab*trj	0.359	0.324	-0.38
lab*tce	0.5	0.5	0.862
lab*nce	0.0	0.5	0.844

relative Inform. Technology (IT)

olvi3*	0.5	0.0	0.5	(1.0)
cmyn3*	0.5	0.75	0.5	(0.0)
olvi4*	1.0	0.5	1.0	(1.0)
cmyn4*	0.0	0.75	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	26.48	28.52	-22.01
LAB*LABa	26.48	28.58	-22.12
LAB*LABb	25.01	36.15	32.25

relative Inform. Technology (IT)

olvi3*	1.0	0.0	1.0	(1.0)
cmyn3*	0.0	1.0	0.0	(0.0)
olvi4*	1.0	0.0	1.0	(1.0)
cmyn4*	0.0	1.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	50.06	42.76	-31.49
LAB*LABa	50.06	42.87	-33.19
LAB*LABb	62.5	54.22	32.25

relative CIELAB lab*

lab*lab	0.414	0.593	-0.458
lab*tch	0.625	0.75	0.895
lab*nch	0.0	0.75	0.895

relative Natural Colour (NC)

lab*trj	0.414	0.486	-0.57
lab*tce	0.625	0.75	0.862
lab*nce	0.0	0.75	0.844

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	0.0	1.0	(1.0)
cmyn4*	0.0	0.0	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	34.95	57.34	-43.57
LAB*LABa	34.95	57.16	-44.25
LAB*LABb	50.0	72.29	32.25

relative CIELAB lab*

lab*lab	0.219	0.791	-0.611
lab*tch	0.5	1.0	0.895
lab*nch	0.0	1.0	0.895

relative Natural Colour (NC)

lab*trj	0.219	0.648	-0.76
lab*tce	0.5	1.0	0.862
lab*nce	0.0	1.0	0.844

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	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	56.71	0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*LABb	50.0	0.0	0.0

relative Inform. Technology (IT)

olvi3*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	(1.0)
cmyn4*	0.0	0.5	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	50.0	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*	0.25	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	0.75	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	26.48	28.52	-22.01
LAB*LABa	26.48	28.58	-22.12
LAB*LABb	25.01	36.15	32.25

relative CIELAB lab*

lab*lab	0.164	0.593	-0.458
lab*tch	0.375	0.75	0.895
lab*nch	0.0	0.75	0.895

relative Natural Colour (NC)

lab*trj	0.164	0.486	-0.57
lab*tce	0.375	0.75	0.862
lab*nce	0.0	0.75	0.844

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	0.75	0.0	(0.0)

standard and adapted CIELAB

LAB*LAB	18.02	0.5	0.46
LAB*LABa	18.02	0.0	0.0
LAB*LABb	18.02	0.0	0.0

Output: Colorimetric Reflective System MRS18

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

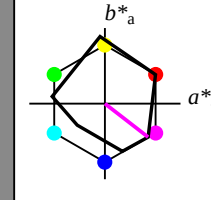
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 35 72 322

rgb*Ma: 1.0 0.0 1.0

triangle lightness t^*



relative Inform. Technology (IT)

olvi3*	1.0
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www.ps.bam.de/UE54/10L/L54E06FP.PS/.PDF; linearized output
F: Output Linearization (OL) data UE54/10L/L54E06FP.DAT in File (F)

Input: Colorimetric Reflective System MRS18

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

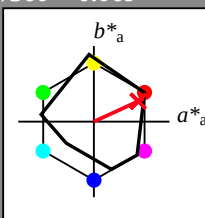
$lab \cdot tch$ and $lab \cdot nch$

D65: hue R

LCH*Ma: 48 73 25

rgb*Ma: 1.0 0.0 0.1

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
olvi4*	0.0	0.0	0.0	(0.0)
olvi5*	0.0	0.0	0.0	(0.0)
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)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.75	0.75	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.75	0.75	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.75	0.75	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.75	0.75	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.75	0.75	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.75	0.75	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.75	0.75	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.75	0.75	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.75	0.75	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

relative Inform. Technology (IT)

olvi3*	1.0	0.75	0.75	(1.0)
olvi4*	0.0	0.25	0.25	(0.0)
olvi5*	0.0	0.75	0.75	(0.0)
olvi6*	0.0	0.25	0.25	(0.0)
olvi7*	0.0	0.75	0.75	(0.0)
olvi8*	0.0	0.25	0.25	(0.0)
olvi9*	0.0	0.75	0.75	(0.0)
olvi10*	0.0	0.25	0.25	(0.0)
olvi11*	0.0	0.75	0.75	(0.0)
olvi12*	0.0	0.25	0.25	(0.0)
olvi13*	0.0	0.75	0.75	(0.0)
olvi14*	0.0	0.25	0.25	(0.0)
olvi15*	0.0	0.75	0.75	(0.0)
olvi16*	0.0	0.25	0.25	(0.0)
olvi17*	0.0	0.75	0.75	(0.0)
olvi18*	0.0	0.25	0.25	(0.0)
olvi19*	0.0	0.75	0.75	(0.0)
olvi20*	0.0	0.25	0.25	(0.0)

MRS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
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

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

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

Technology (IT)	
0.5	0.548 (1.0)
0.5	0.452 (0.0)
0.5	0.549 1.0
0.5	0.451 0.0
apted CIELAB	
32.47	18.34
33.0	15.17
36.32	24.7

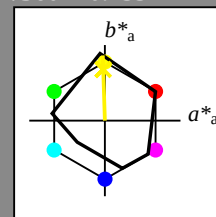
Input: Colorimetric Reflective System MRS18

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

lab^*ch and lab^*nch

D65: hue J
LCH*Ma: 89 86 92
rgb*Ma: 1.0 0.95 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
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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* 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*TC_{Ma} 97.5 21.58 91.86

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*TC_{Ma} 97.5 21.58 91.86

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*TC_{Ma} 97.5 21.58 91.86

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*TC_{Ma} 75.0 0.01

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*TC_{Ma} 75.0 0.01

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*TC_{Ma} 75.0 0.01

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*TC_{Ma} 75.0 0.01

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*TC_{Ma} 75.0 0.01

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
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LAB*LABa 76.06 0.0 0.0
LAB*TC_{Ma} 75.0 0.01

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*TC_{Ma} 75.0 0.01

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*TC_{Ma} 75.0 0.01

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*TC_{Ma} 50.0 0.01

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*TC_{Ma} 50.0 0.01

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*TC_{Ma} 50.0 0.01

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*TC_{Ma} 50.0 0.01

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 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
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LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
LAB*LABa 37.36 0.0 0.0
LAB*TC_{Ma} 25.0 0.01

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 -0.13 0.63
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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 0.0
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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 0.0
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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 0.0
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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 0.0
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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 0.0
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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 0.0
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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 0.0
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 (0.0)
cmyn3* 1.0 1.0 1.0 (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 0.0
LAB*LABa 18.02 0.0 0.0
LAB*TC_{Ma} 0.01 0.01

UE540-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

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

BAM-test chart UE54; Colorimetric systems MRS18 & MRS18
D65: 2 coordinate data of 5 step colour scales for 10 hues

input: $cmv0^* setcmykcolor$

output: $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Reflective System MRS18

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

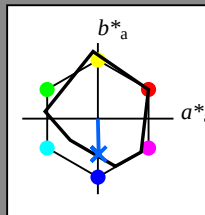
lab^*tch and lab^*nch

D65: hue B

LCH*Ma: 40 50 271

rgb*Ma: 0.0 0.37 1.0

triangle lightness t^*



% Gamut

$u^*_{rel} = 91$

relative Inform. Technology (IT)

olvi3*	1.0	1.0	1.0	(1.0)
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	0.842	1.0	(1.0)
olvi4*	0.0	0.158	0.0	(0.0)
olvi5*	0.75	0.842	1.0	(1.0)
olvi6*	0.0	0.158	0.0	(0.0)
olvi7*	0.0	0.158	0.0	(0.0)
olvi8*	0.0	0.158	0.0	(0.0)
olvi9*	0.0	0.158	0.0	(0.0)
olvi10*	0.0	0.158	0.0	(0.0)
olvi11*	0.0	0.158	0.0	(0.0)
olvi12*	0.0	0.158	0.0	(0.0)
olvi13*	0.0	0.158	0.0	(0.0)
olvi14*	0.0	0.158	0.0	(0.0)
olvi15*	0.0	0.158	0.0	(0.0)
olvi16*	0.0	0.158	0.0	(0.0)
olvi17*	0.0	0.158	0.0	(0.0)
olvi18*	0.0	0.158	0.0	(0.0)
olvi19*	0.0	0.158	0.0	(0.0)
olvi20*	0.0	0.158	0.0	(0.0)
olvi21*	0.0	0.158	0.0	(0.0)
olvi22*	0.0	0.158	0.0	(0.0)
olvi23*	0.0	0.158	0.0	(0.0)
olvi24*	0.0	0.158	0.0	(0.0)
olvi25*	0.0	0.158	0.0	(0.0)
olvi26*	0.0	0.158	0.0	(0.0)
olvi27*	0.0	0.158	0.0	(0.0)
olvi28*	0.0	0.158	0.0	(0.0)
olvi29*	0.0	0.158	0.0	(0.0)
olvi30*	0.0	0.158	0.0	(0.0)
olvi31*	0.0	0.158	0.0	(0.0)
olvi32*	0.0	0.158	0.0	(0.0)
olvi33*	0.0	0.158	0.0	(0.0)
olvi34*	0.0	0.158	0.0	(0.0)
olvi35*	0.0	0.158	0.0	(0.0)
olvi36*	0.0	0.158	0.0	(0.0)
olvi37*	0.0	0.158	0.0	(0.0)
olvi38*	0.0	0.158	0.0	(0.0)
olvi39*	0.0	0.158	0.0	(0.0)
olvi40*	0.0	0.158	0.0	(0.0)
olvi41*	0.0	0.158	0.0	(0.0)
olvi42*	0.0	0.158	0.0	(0.0)
olvi43*	0.0	0.158	0.0	(0.0)
olvi44*	0.0	0.158	0.0	(0.0)
olvi45*	0.0	0.158	0.0	(0.0)
olvi46*	0.0	0.158	0.0	(0.0)
olvi47*	0.0	0.158	0.0	(0.0)
olvi48*	0.0	0.158	0.0	(0.0)
olvi49*	0.0	0.158	0.0	(0.0)
olvi50*	0.0	0.158	0.0	(0.0)
olvi51*	0.0	0.158	0.0	(0.0)
olvi52*	0.0	0.158	0.0	(0.0)
olvi53*	0.0	0.158	0.0	(0.0)
olvi54*	0.0	0.158	0.0	(0.0)
olvi55*	0.0	0.158	0.0	(0.0)
olvi56*	0.0	0.158	0.0	(0.0)
olvi57*	0.0	0.158	0.0	(0.0)
olvi58*	0.0	0.158	0.0	(0.0)
olvi59*	0.0	0.158	0.0	(0.0)
olvi60*	0.0	0.158	0.0	(0.0)
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olvi67*	0.0	0.158	0.0	(0.0)
olvi68*	0.0	0.158	0.0	(0.0)
olvi69*	0.0	0.158	0.0	(0.0)
olvi70*	0.0	0.158	0.0	(0.0)
olvi71*	0.0	0.158	0.0	(0.0)
olvi72*	0.0	0.158	0.0	(0.0)
olvi73*	0.0	0.158	0.0	(0.0)
olvi74*	0.0	0.158	0.0	(0.0)
olvi75*	0.0	0.158	0.0	(0.0)
olvi76*	0.0	0.158	0.0	(0.0)
olvi77*	0.0	0.158	0.0	(0.0)
olvi78*	0.0	0.158	0.0	(0.0)
olvi79*	0.0	0.158	0.0	(0.0)
olvi80*	0.0	0.158	0.0	(0.0)
olvi81*	0.0	0.158	0.0	(0.0)
olvi82*	0.0	0.158	0.0	(0.0)
olvi83*	0.0	0.158	0.0	(0.0)
olvi84*	0.0	0.158	0.0	(0.0)
olvi85*	0.0	0.158	0.0	(0.0)
olvi86*	0.0	0.158	0.0	(0.0)
olvi87*	0.0	0.158	0.0	(0.0)
olvi88*	0.0	0.158	0.0	(0.0)
olvi89*	0.0	0.158	0.0	(0.0)
olvi90*	0.0	0.158	0.0	(0.0)
olvi91*	0.0	0.158	0.0	(0.0)
olvi92*	0.0	0.158	0.0	(0.0)
olvi93*	0.0	0.158	0.0	(0.0)
olvi94*	0.0	0.158	0.0	(0.0)
olvi95*	0.0	0.158	0.0	(0.0)
olvi96*	0.0	0.158	0.0	(0.0)
olvi97*	0.0	0.158	0.0	(0.0)
olvi98*	0.0	0.158	0.0	(0.0)
olvi99*	0.0	0.158	0.0	(0.0)
olvi100*	0.0	0.158	0.0	(0.0)

relative CIELab lab*			
lab*lab	0.82	0.006	-0.249
lab*tch	0.875	0.25	0.754
lab*ncH	0.0	0.25	0.754
relative Natural Colour (NC)			
lab*lrj	0.82	0.0	-0.249
lab*tce	0.875	0.25	0.75
lab*ncE	0.0	0.25	g99b