

Input: Colorimetric Reflective System MRS18

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

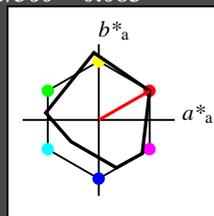
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

olv*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

%Gamut

$u^*_{rel} = 91$

%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*TCHa 99.99 0.01 -

relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*tch 1.0 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* 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*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*lrj 0.704 0.496 0.06
 lab*tce 0.75 0.5 0.019
 lab*nce 0.0 0.5 r07j

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

standard and adapted CIELAB
 LAB*LAB 56.71 -0.23 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*TCHa 50.0 0.01 -

relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*tch 0.5 0.0 -
 lab*nch 0.5 0.0 -

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

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

standard and adapted CIELAB
 LAB*LAB 33.82 33.67 19.79
 LAB*LABa 33.82 33.47 19.18
 LAB*TCHa 25.01 38.58 29.82

relative CIELAB lab*
 lab*lab 0.204 0.434 0.249
 lab*tch 0.25 0.5 0.083
 lab*nch 0.5 0.5 0.083

relative Natural Colour (NC)
 lab*lrj 0.204 0.496 0.06
 lab*tce 0.25 0.5 0.019
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 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 0.5 -0.46
 LAB*LABa 18.02 0.0 0.0
 LAB*TCHa 18.01 0.01 -

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

$n^* = 1.0$

Output: Colorimetric Reflective System MRS18

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

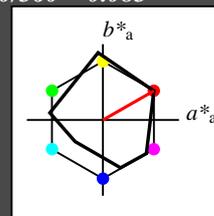
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 50 77 30

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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 olvi3* 1.0 1.0 1.0 (1.0)
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 lab*lab 1.0 0.0 0.0
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 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* 1.0 0.5 0.5 (1.0)
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 LAB*TCHa 75.0 38.58 29.82

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 lab*tch 0.75 0.5 0.083
 lab*nch 0.0 0.5 0.083

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 lab*lrj 0.704 0.496 0.06
 lab*tce 0.75 0.5 0.019
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 olvi3* 0.5 0.5 0.5 (1.0)
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 olvi4* 1.0 1.0 1.0 0.5
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 lab*tce 0.5 0.0 -
 lab*nce 0.5 0.0 -

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

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 LAB*LAB 33.82 33.67 19.79
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 lab*lrj 0.204 0.496 0.06
 lab*tce 0.25 0.5 0.019
 lab*nce 0.5 0.5 r07j

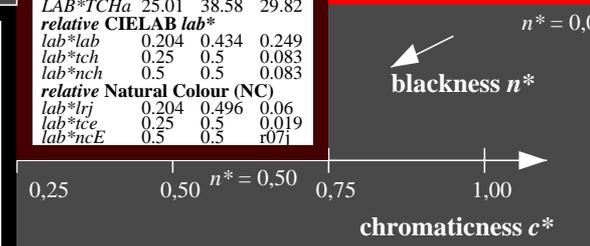
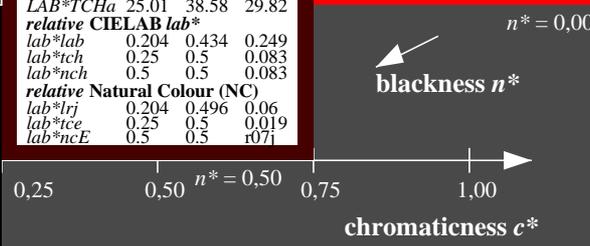
relative Inform. Technology (IT)
 olvi3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olvi4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0

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 LAB*LAB 18.02 0.5 -0.46
 LAB*LABa 18.02 0.0 0.0
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relative CIELAB lab*
 lab*lab 0.0 0.0 0.0
 lab*tch 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 -

$n^* = 1.0$



Input: Colorimetric Reflective System MRS18

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

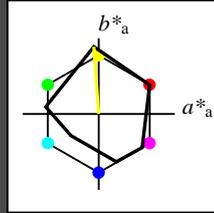
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



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

$u^*_{rel} = 91$

%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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	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	93.05	-4.11	48.97
LAB*LABa	93.05	-3.17	44.37
LAB*TCHa	75.0	44.48	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*lrj	0.969	-0.023	0.499
lab*tce	0.75	0.5	0.258
lab*nce	0.0	0.5	j03g

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	0.0	-

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

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LAB*LAB	54.35	-3.37	46.36
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standard and adapted CIELAB

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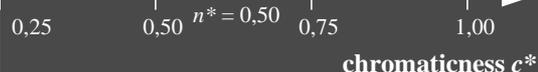
relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	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	-

$n^* = 1.0$



chromaticness c^*

blackness n^*

$n^* = 0.00$

Output: Colorimetric Reflective System MRS18

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

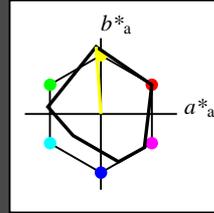
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 91 89 94

olv*Ma: 1.0 1.0 0.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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GMa	52.11	-69.73	9.44	70.37	172
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BMa	36.65	23.19	-63.05	67.18	290
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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
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%Gamut

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%Regularity

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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
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relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	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
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standard and adapted CIELAB

LAB*LAB	93.05	-4.11	48.97
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LAB*TCHa	75.0	44.48	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*lrj	0.969	-0.023	0.499
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lab*nce	0.0	0.5	j03g

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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
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chromaticness c^*

blackness n^*

$n^* = 0.00$

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
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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	-

$n^* = 1.0$

3 step scales for constant CIELAB hue 94/360 = 0.261 (right)

UE140-7, 3 step scales for constant CIELAB hue 94/360 = 0.261 (left)

BAM-test chart UE14; Colorimetric systems MRS18 & MRS18
 D65: 2 coordinate data of 3 step colour scales for 10 hues

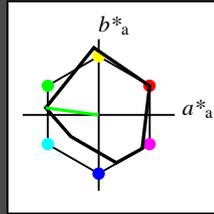
input: cmY^0* setcmYcolor
 output: olv^* setrgbcolor / w^* setgray

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
 olv*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

%Gamut
 $u^*_{rel} = 91$
 %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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	0.5	1.0	0.5	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olvi4*	0.5	1.0	0.5	1.0
cmyn4*	0.5	0.0	0.5	0.0

standard and adapted CIELAB

LAB*LAB	73.75	-35.42	8.02
LAB*LABa	73.75	-34.85	4.72
LAB*TCHa	75.0	35.18	172.29

relative CIELAB lab*

lab*lab	0.72	-0.494	0.067
lab*tch	0.75	0.5	0.479
lab*nch	0.0	0.5	0.479

relative Natural Colour (NC)

lab*lrj	0.72	-0.496	-0.056
lab*tce	0.75	0.5	0.518
lab*nce	0.0	0.5	g07b

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	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	0.0	-

standard and adapted CIELAB

LAB*LAB	35.06	-34.67	5.41
LAB*LABa	35.06	-34.85	4.72
LAB*TCHa	25.01	35.18	172.29

relative CIELAB lab*

lab*lab	0.22	-0.494	0.067
lab*tch	0.25	0.5	0.479
lab*nch	0.5	0.5	0.479

relative Natural Colour (NC)

lab*lrj	0.22	-0.496	-0.056
lab*tce	0.25	0.5	0.518
lab*nce	0.5	0.5	g07b

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	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	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	1.0	0.0	(1.0)
cmyn3*	1.0	0.0	1.0	(0.0)
olvi4*	1.0	1.0	1.0	1.0
cmyn4*	1.0	0.0	1.0	0.0

standard and adapted CIELAB

LAB*LAB	52.11	-69.86	11.28
LAB*LABa	52.11	-69.71	9.44
LAB*TCHa	50.0	70.36	172.29

relative CIELAB lab*

lab*lab	0.441	-0.99	0.134
lab*tch	0.5	1.0	0.479
lab*nch	0.0	1.0	0.479

relative Natural Colour (NC)

lab*lrj	0.441	-0.992	-0.114
lab*tce	0.5	1.0	0.518
lab*nce	0.0	1.0	g07b

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	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	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	-

standard and adapted CIELAB

LAB*LAB	0.0	0.0	0.0
LAB*LABa	0.0	0.0	-
LAB*TCHa	0.0	0.0	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

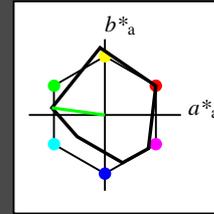
lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

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
 olv*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

%Gamut
 $u^*_{rel} = 91$
 %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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	0.5	1.0	0.5	(1.0)
cmyn3*	0.5	0.0	0.5	(0.0)
olvi4*	0.5	1.0	0.5	1.0
cmyn4*	0.5	0.0	0.5	0.0

standard and adapted CIELAB

LAB*LAB	73.75	-35.42	8.02
LAB*LABa	73.75	-34.85	4.72
LAB*TCHa	75.0	35.18	172.29

relative CIELAB lab*

lab*lab	0.72	-0.494	0.067
lab*tch	0.75	0.5	0.479
lab*nch	0.0	0.5	0.479

relative Natural Colour (NC)

lab*lrj	0.72	-0.496	-0.056
lab*tce	0.75	0.5	0.518
lab*nce	0.0	0.5	g07b

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	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	0.0	-

standard and adapted CIELAB

LAB*LAB	35.06	-34.67	5.41
LAB*LABa	35.06	-34.85	4.72
LAB*TCHa	25.01	35.18	172.29

relative CIELAB lab*

lab*lab	0.22	-0.494	0.067
lab*tch	0.25	0.5	0.479
lab*nch	0.5	0.5	0.479

relative Natural Colour (NC)

lab*lrj	0.22	-0.496	-0.056
lab*tce	0.25	0.5	0.518
lab*nce	0.5	0.5	g07b

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	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

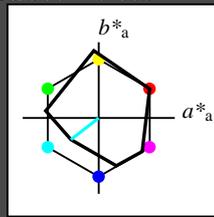
lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

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
 olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 91$

%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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.5	-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	-
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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	70.21	-18.77	-11.17
LAB*LABa	70.21	-18.27	-14.23
LAB*TCHa	75.0	23.17	217.91

relative CIELAB lab*

lab*lab	0.674	-0.393	-0.306
lab*tch	0.75	0.5	0.605
lab*nch	0.0	0.5	0.605

relative Natural Colour (NC)

lab*lrj	0.674	-0.353	-0.352
lab*tce	0.75	0.5	0.625
lab*nce	0.0	0.5	g49b

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	31.52	-18.03	-13.78
LAB*LABa	31.52	-18.27	-14.23
LAB*TCHa	25.01	23.17	217.91

relative CIELAB lab*

lab*lab	0.175	-0.393	-0.306
lab*tch	0.25	0.5	0.605
lab*nch	0.5	0.5	0.605

relative Natural Colour (NC)

lab*lrj	0.175	-0.353	-0.352
lab*tce	0.25	0.5	0.625
lab*nce	0.5	0.5	g49b

$n^* = 0.50$

chromaticness c^*

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	45.03	-36.57	-27.11
LAB*LABa	45.03	-36.56	-28.47
LAB*TCHa	50.0	46.35	217.91

relative CIELAB lab*

lab*lab	0.349	-0.788	-0.613
lab*tch	0.5	1.0	0.605
lab*nch	0.0	1.0	0.605

relative Natural Colour (NC)

lab*lrj	0.349	-0.706	-0.706
lab*tce	0.5	1.0	0.625
lab*nce	0.0	1.0	g49b

$n^* = 0.00$

blackness n^*

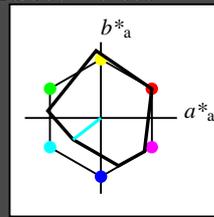
chromaticness c^*

Output: 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
 olv*Ma: 0.0 1.0 1.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 91$

%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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.5	-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	-
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	-

$n^* = 1.0$

chromaticness c^*

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

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	70.21	-18.77	-11.17
LAB*LABa	70.21	-18.27	-14.23
LAB*TCHa	75.0	23.17	217.91

relative CIELAB lab*

lab*lab	0.674	-0.393	-0.306
lab*tch	0.75	0.5	0.605
lab*nch	0.0	0.5	0.605

relative Natural Colour (NC)

lab*lrj	0.674	-0.353	-0.352
lab*tce	0.75	0.5	0.625
lab*nce	0.0	0.5	g49b

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	31.52	-18.03	-13.78
LAB*LABa	31.52	-18.27	-14.23
LAB*TCHa	25.01	23.17	217.91

relative CIELAB lab*

lab*lab	0.175	-0.393	-0.306
lab*tch	0.25	0.5	0.605
lab*nch	0.5	0.5	0.605

relative Natural Colour (NC)

lab*lrj	0.175	-0.353	-0.352
lab*tce	0.25	0.5	0.625
lab*nce	0.5	0.5	g49b

$n^* = 0.50$

chromaticness c^*

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	45.03	-36.57	-27.11
LAB*LABa	45.03	-36.56	-28.47
LAB*TCHa	50.0	46.35	217.91

relative CIELAB lab*

lab*lab	0.349	-0.788	-0.613
lab*tch	0.5	1.0	0.605
lab*nch	0.0	1.0	0.605

relative Natural Colour (NC)

lab*lrj	0.349	-0.706	-0.706
lab*tce	0.5	1.0	0.625
lab*nce	0.0	1.0	g49b

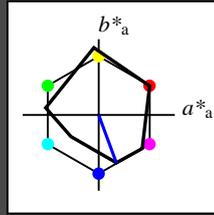
$n^* = 0.00$

</

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
 olv*Ma: 0.0 0.0 1.0
 triangle lightness t^*



MRS18; adapted (a) CIELAB data

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

%Gamut
 $u^*_{rel} = 91$
%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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	0.5	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	11.59	-31.51
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	0.616

relative Inform. Technology (IT)

olvi3*	0.0	0.0	0.5	(1.0)
cmyn3*	1.0	1.0	0.5	(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	27.34	11.92	-31.35
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	0.5	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	0.5	0.5	0.616

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	0.5	-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	-
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	-

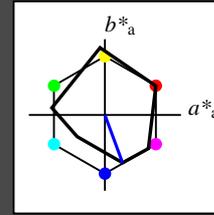
$n^* = 0,00$
 blackness n^*

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
 olv*Ma: 0.0 0.0 1.0
 triangle lightness t^*



MRS18; adapted (a) CIELAB data

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

%Gamut
 $u^*_{rel} = 91$
%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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	0.5	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	11.59	-31.51
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	0.616

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	0.0	-

$n^* = 0,00$
 blackness n^*

chromaticness c^*

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	0.5	-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	-
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	0.5	-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	-
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	-

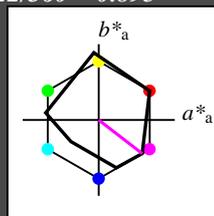
See for similar files: <http://www.ps.bam.de/UE14/>
 Technical information: <http://www.ps.bam.de>
 Version 2.1, io=0,1, CIEXYZ

BAM registration: 20060101-UE14/10S/S14E04FP.PS/.PDF BAM material: code=rh4data
 application for evaluation and measurement of printer or monitor systems, Yr=2.5, XYZ
 /UE14/ Form 5/10, Serie: 1/1, Page: 5 Page count: 5

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
 olv*Ma: 1.0 0.0 1.0
 triangle lightness t^*



MRS18; adapted (a) CIELAB data

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

%Gamut
 $u^*_{rel} = 91$
 %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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	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*TCHa	75.0	36.15	322.25

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*lrj	0.609	0.324	-0.38
lab*tce	0.75	0.5	0.862
lab*nce	0.0	0.5	b44r

relative Inform. Technology (IT)

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

standard and adapted CIELAB

LAB*LAB	26.48	28.92	-22.01
LAB*LABa	26.48	28.58	-22.12
LAB*TCHa	25.01	36.15	322.25

relative CIELAB lab*

lab*lab	0.109	0.395	-0.305
lab*tch	0.25	0.5	0.895
lab*nch	0.5	0.5	0.895

relative Natural Colour (NC)

lab*lrj	0.109	0.324	-0.38
lab*tce	0.25	0.5	0.862
lab*nce	0.5	0.5	b44r

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

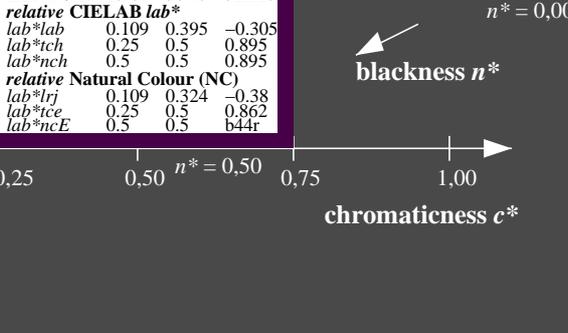
LAB*LAB	18.02	0.5	-0.46
LAB*LABa	18.02	0.0	0.0
LAB*TCHa	0.01	0.01	-

relative CIELAB lab*

lab*lab	0.0	0.0	0.0
lab*tch	0.0	0.0	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

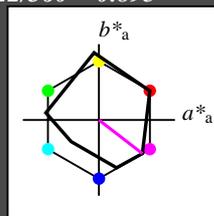
lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-



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
 olv*Ma: 1.0 0.0 1.0
 triangle lightness t^*



MRS18; adapted (a) CIELAB data

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

%Gamut
 $u^*_{rel} = 91$
 %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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	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*TCHa	75.0	36.15	322.25

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*lrj	0.609	0.324	-0.38
lab*tce	0.75	0.5	0.862
lab*nce	0.0	0.5	b44r

relative Inform. Technology (IT)

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

standard and adapted CIELAB

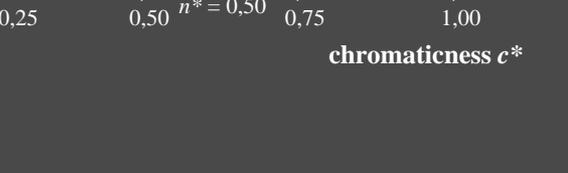
LAB*LAB	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.5	-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	-
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	-

UE140-7, 3 step scales for constant CIELAB hue 322/360 = 0.895 (left)

3 step scales for constant CIELAB hue 322/360 = 0.895 (right)

BAM-test chart UE14; Colorimetric systems MRS18 & MRS18
 D65: 2 coordinate data of 3 step colour scales for 10 hues

input: $cmv0^* setcmykcolor$
 output: $olv^* setrgbcolor / w^* setgray$

Input: Colorimetric Reflective System MRS18

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

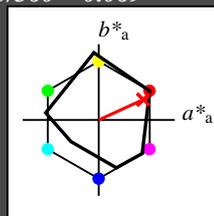
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

olv*Ma: 1.0 0.0 0.1

triangle lightness t^*



%Gamut

$u^*_{rel} = 91$

%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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.5	-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	-
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

relative Inform. Technology (IT)

olvi3*	1.0	0.5	0.548	(1.0)
cmyn3*	0.0	0.5	0.452	(0.0)
olvi4*	1.0	0.5	0.549	1.0
cmyn4*	0.0	0.5	0.451	0.0

standard and adapted CIELAB

LAB*LAB	71.8	32.47	18.34
LAB*LABa	71.8	33.0	15.17
LAB*TCHa	75.0	36.32	24.7

relative CIELAB lab*

lab*lab	0.695	0.454	0.209
lab*tch	0.75	0.5	0.069
lab*nch	0.0	0.5	0.069

relative Natural Colour (NC)

lab*lrj	0.695	0.5	0.0
lab*tce	0.75	0.5	1.0
lab*nce	0.0	0.5	b99r

relative Inform. Technology (IT)

olvi3*	0.5	0.0	0.048	(1.0)
cmyn3*	0.5	1.0	0.952	(0.0)
olvi4*	1.0	0.5	0.548	0.5
cmyn4*	0.0	0.5	0.452	0.5

standard and adapted CIELAB

LAB*LAB	33.11	33.21	15.74
LAB*LABa	33.11	33.0	15.18
LAB*TCHa	25.01	36.33	24.71

relative CIELAB lab*

lab*lab	0.195	0.454	0.209
lab*tch	0.25	0.5	0.069
lab*nch	0.5	0.5	0.069

relative Natural Colour (NC)

lab*lrj	0.195	0.5	0.0
lab*tce	0.25	0.5	0.0
lab*nce	0.5	0.5	r00j

$n^* = 0.50$

$n^* = 0.00$

blackness n^*

chromaticness c^*

Output: Colorimetric Reflective System MRS18

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

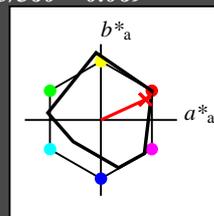
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 48 73 25

olv*Ma: 1.0 0.0 0.1

triangle lightness t^*



%Gamut

$u^*_{rel} = 91$

%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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	0.5	0.5	0.5	(1.0)
cmyn3*	0.5	0.5	0.5	(0.0)
olvi4*	1.0	1.0	1.0	0.5
cmyn4*	0.0	0.0	0.0	0.5

standard and adapted CIELAB

LAB*LAB	56.71	-0.23	2.14
LAB*LABa	56.71	0.0	0.0
LAB*TCHa	50.0	0.01	-

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	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	0.5	-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	-
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	-

$n^* = 1.0$

$n^* = 0.00$

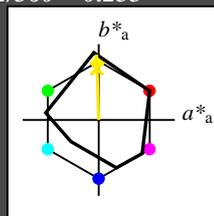
blackness n^*

chromaticness c^*

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
 olv*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
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

%Gamut
 $u^*_{rel} = 91$
 %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*TCHa 99.99 0.01 -

relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*tch 1.0 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* 1.0 0.976 0.5 (1.0)
 cmyn3* 0.0 0.024 0.5 (0.0)
 olvi4* 1.0 0.976 0.5 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 CIELAB lab*
 lab*lab 0.957 -0.015 0.5
 lab*tch 0.75 0.5 0.255
 lab*nch 0.0 0.5 0.255

relative Natural Colour (NC)
 lab*lrj 0.957 0.0 0.5
 lab*tce 0.75 0.5 0.25
 lab*nce 0.0 0.5 j00g

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

standard and adapted CIELAB
 LAB*LAB 56.71 -0.23 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*TCHa 50.0 0.01 -

relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*tch 0.5 0.0 -
 lab*nch 0.5 0.0 -

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

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 0.976 0.5 0.5
 cmyn4* 0.0 0.024 0.5 0.5

standard and adapted CIELAB
 LAB*LAB 53.35 -1.55 45.05
 LAB*LABa 53.35 -1.38 43.13
 LAB*TCHa 25.01 43.16 91.84

relative CIELAB lab*
 lab*lab 0.457 -0.015 0.5
 lab*tch 0.25 0.5 0.255
 lab*nch 0.5 0.5 0.255

relative Natural Colour (NC)
 lab*lrj 0.457 0.0 0.5
 lab*tce 0.25 0.5 0.25
 lab*nce 0.5 0.5 j99j

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 0.5 -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 -
 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 -

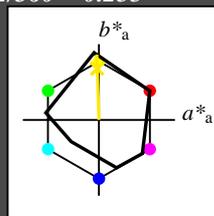
blackness $n^* = 0,00$
 chromaticness c^*

$n^* = 1,0$

Output: 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
 olv*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
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

%Gamut
 $u^*_{rel} = 91$
 %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*TCHa 99.99 0.01 -

relative CIELAB lab*
 lab*lab 1.0 0.0 0.0
 lab*tch 1.0 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* 1.0 0.976 0.5 (1.0)
 cmyn3* 0.0 0.024 0.5 (0.0)
 olvi4* 1.0 0.976 0.5 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 CIELAB lab*
 lab*lab 0.957 -0.015 0.5
 lab*tch 0.75 0.5 0.255
 lab*nch 0.0 0.5 0.255

relative Natural Colour (NC)
 lab*lrj 0.957 0.0 0.5
 lab*tce 0.75 0.5 0.25
 lab*nce 0.0 0.5 j00g

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

standard and adapted CIELAB
 LAB*LAB 56.71 -0.23 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*TCHa 50.0 0.01 -

relative CIELAB lab*
 lab*lab 0.5 0.0 0.0
 lab*tch 0.5 0.0 -
 lab*nch 0.5 0.0 -

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

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 0.976 0.5 0.5
 cmyn4* 0.0 0.024 0.5 0.5

standard and adapted CIELAB
 LAB*LAB 53.35 -1.55 45.05
 LAB*LABa 53.35 -1.38 43.13
 LAB*TCHa 25.01 43.16 91.84

relative CIELAB lab*
 lab*lab 0.457 -0.015 0.5
 lab*tch 0.25 0.5 0.255
 lab*nch 0.5 0.5 0.255

relative Natural Colour (NC)
 lab*lrj 0.457 0.0 0.5
 lab*tce 0.25 0.5 0.25
 lab*nce 0.5 0.5 j99j

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 0.5 -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 -
 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 -

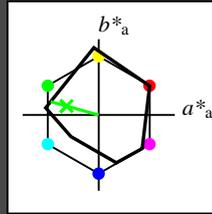
blackness $n^* = 0,00$
 chromaticness c^*

$n^* = 1,0$

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
 olv*Ma: 0.1 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

%Gamut
 $u^*_{rel} = 91$
 %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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	0.551	1.0	0.5	(1.0)
cmyn3*	0.449	0.0	0.5	(0.0)
olvi4*	0.551	1.0	0.5	1.0
cmyn4*	0.449	0.0	0.5	0.0

standard and adapted CIELAB

LAB*LAB	75.74	-32.2	12.22
LAB*LABa	75.74	-31.6	8.79
LAB*TCHa	75.0	32.81	164.46

relative CIELAB lab*

lab*lab	0.746	-0.481	0.134
lab*tch	0.75	0.5	0.457
lab*nch	0.0	0.5	0.457

relative Natural Colour (NC)

lab*lrj	0.746	-0.499	0.0
lab*tce	0.75	0.5	0.5
lab*nce	0.0	0.5	0.99g

relative Inform. Technology (IT)

olvi3*	0.051	0.5	0.0	(1.0)
cmyn3*	0.949	0.5	1.0	(0.0)
olvi4*	0.551	1.0	0.5	0.5
cmyn4*	0.449	0.0	0.5	0.5

standard and adapted CIELAB

LAB*LAB	37.04	-31.47	9.6
LAB*LABa	37.04	-31.6	8.78
LAB*TCHa	25.01	32.81	164.47

relative CIELAB lab*

lab*lab	0.246	-0.481	0.134
lab*tch	0.25	0.5	0.457
lab*nch	0.5	0.5	0.457

relative Natural Colour (NC)

lab*lrj	0.246	-0.499	0.0
lab*tce	0.25	0.5	0.5
lab*nce	0.5	0.5	g00b

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	0.5	-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	-
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	0.5	-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	-
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	-

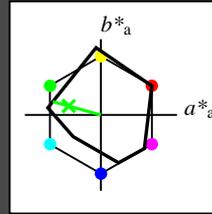
$n^* = 0,00$
 blackness n^*

chromaticness c^*

Output: 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
 olv*Ma: 0.1 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

%Gamut
 $u^*_{rel} = 91$
 %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*TCHa	99.99	0.01	-

relative CIELAB lab*

lab*lab	1.0	0.0	0.0
lab*tch	1.0	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*	0.551	1.0	0.5	(1.0)
cmyn3*	0.449	0.0	0.5	(0.0)
olvi4*	0.551	1.0	0.5	1.0
cmyn4*	0.449	0.0	0.5	0.0

standard and adapted CIELAB

LAB*LAB	75.74	-32.2	12.22
LAB*LABa	75.74	-31.6	8.79
LAB*TCHa	75.0	32.81	164.46

relative CIELAB lab*

lab*lab	0.746	-0.481	0.134
lab*tch	0.75	0.5	0.457
lab*nch	0.0	0.5	0.457

relative Natural Colour (NC)

lab*lrj	0.746	-0.499	0.0
lab*tce	0.75	0.5	0.5
lab*nce	0.0	0.5	0.99g

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	-63.44	19.68
LAB*LABa	56.71	-63.21	17.58
LAB*TCHa	50.0	65.62	164.46

relative CIELAB lab*

lab*lab	0.5	0.0	0.0
lab*tch	0.5	0.0	-
lab*nch	0.5	0.0	-

relative Natural Colour (NC)

lab*lrj	0.5	0.0	0.0
lab*tce	0.5	0.0	-
lab*nce	0.5	0.0	-

relative Inform. Technology (IT)

olvi3*	0.051	0.5	0.0	(1.0)
cmyn3*	0.949	0.5	1.0	(0.0)
olvi4*	0.551	1.0	0.5	0.5
cmyn4*	0.449	0.0	0.5	0.5

standard and adapted CIELAB

LAB*LAB	37.04	-31.47	9.6
LAB*LABa	37.04	-31.6	8.78
LAB*TCHa	25.01	32.81	164.47

relative CIELAB lab*

lab*lab	0.246	-0.481	0.134
lab*tch	0.25	0.5	0.457
lab*nch	0.5	0.5	0.457

relative Natural Colour (NC)

lab*lrj	0.246	-0.499	0.0
lab*tce	0.25	0.5	0.5
lab*nce	0.5	0.5	g00b

$n^* = 0,00$
 blackness n^*

chromaticness c^*

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	0.5	-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	-
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	0.5	-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	-
lab*nch	1.0	0.0	-

relative Natural Colour (NC)

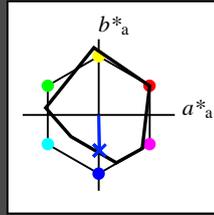
lab*lrj	0.0	0.0	0.0
lab*tce	0.0	0.0	-
lab*nce	1.0	0.0	-

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
 olv*Ma: 0.0 0.37 1.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

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

%Gamut
 $u^*_{rel} = 91$
 %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
 $LAB^*LAB = 95.41, -0.97, 4.75$
 $LAB^*LABa = 95.41, 0.0, 0.0$
 $LAB^*TCHa = 99.99, 0.01, -$

relative CIELAB lab*
 $lab^*lab = 1.0, 0.0, 0.0$
 $lab^*tch = 1.0, 0.0, -$
 $lab^*nch = 0.0, 0.0, -$

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)
 $olvi3^* = 0.5, 0.684, 1.0, (1.0)$
 $cmyn3^* = 0.5, 0.316, 0.0, (0.0)$
 $olvi4^* = 0.5, 0.684, 1.0, 1.0$
 $cmyn4^* = 0.5, 0.316, 0.0, 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 67.57, 0.17, -22.28$
 $LAB^*LABa = 67.57, 0.61, -25.16$
 $LAB^*TCHa = 75.0, 25.18, 271.4$

relative CIELAB lab*
 $lab^*lab = 0.64, 0.012, -0.499$
 $lab^*tch = 0.75, 0.5, 0.754$
 $lab^*nch = 0.0, 0.5, 0.754$

relative Natural Colour (NC)
 $lab^*lrj = 0.64, 0.0, -0.499$
 $lab^*tce = 0.75, 0.5, 0.75$
 $lab^*nce = 0.0, 0.5, g99b$

relative Inform. Technology (IT)
 $olvi3^* = 0.5, 0.5, 0.5, (1.0)$
 $cmyn3^* = 0.5, 0.5, 0.5, (0.0)$
 $olvi4^* = 1.0, 1.0, 1.0, 0.5$
 $cmyn4^* = 0.0, 0.0, 0.0, 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 56.71, -0.23, 2.14$
 $LAB^*LABa = 56.71, 0.0, 0.0$
 $LAB^*TCHa = 50.0, 0.01, -$

relative CIELAB lab*
 $lab^*lab = 0.5, 0.0, 0.0$
 $lab^*tch = 0.5, 0.0, -$
 $lab^*nch = 0.5, 0.0, -$

relative Natural Colour (NC)
 $lab^*lrj = 0.5, 0.0, 0.0$
 $lab^*tce = 0.5, 0.0, -$
 $lab^*nce = 0.5, 0.0, -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0, 0.184, 0.5, (1.0)$
 $cmyn3^* = 1.0, 0.816, 0.5, (0.0)$
 $olvi4^* = 0.5, 0.684, 1.0, 0.5$
 $cmyn4^* = 0.5, 0.316, 0.0, 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 28.87, 0.92, -24.9$
 $LAB^*LABa = 28.87, 0.62, -25.16$
 $LAB^*TCHa = 25.01, 25.18, 271.41$

relative CIELAB lab*
 $lab^*lab = 0.14, 0.012, -0.499$
 $lab^*tch = 0.25, 0.5, 0.754$
 $lab^*nch = 0.5, 0.5, 0.754$

relative Natural Colour (NC)
 $lab^*lrj = 0.14, 0.0, -0.499$
 $lab^*tce = 0.25, 0.5, 0.75$
 $lab^*nce = 0.5, 0.5, b00r$

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
 $LAB^*LAB = 18.02, 0.5, -0.46$
 $LAB^*LABa = 18.02, 0.0, 0.0$
 $LAB^*TCHa = 18.01, 0.01, -$

relative CIELAB lab*
 $lab^*lab = 0.0, 0.0, 0.0$
 $lab^*tch = 0.0, 0.0, -$
 $lab^*nch = 1.0, 0.0, -$

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)
 $olvi3^* = 0.0, 0.184, 0.5, (1.0)$
 $cmyn3^* = 1.0, 0.816, 0.5, (0.0)$
 $olvi4^* = 0.5, 0.684, 1.0, 0.5$
 $cmyn4^* = 0.5, 0.316, 0.0, 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 28.87, 0.92, -24.9$
 $LAB^*LABa = 28.87, 0.62, -25.16$
 $LAB^*TCHa = 25.01, 25.18, 271.41$

relative CIELAB lab*
 $lab^*lab = 0.14, 0.012, -0.499$
 $lab^*tch = 0.25, 0.5, 0.754$
 $lab^*nch = 0.5, 0.5, 0.754$

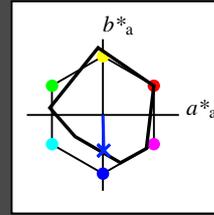
relative Natural Colour (NC)
 $lab^*lrj = 0.14, 0.0, -0.499$
 $lab^*tce = 0.25, 0.5, 0.75$
 $lab^*nce = 0.5, 0.5, b00r$

Output: 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
 olv*Ma: 0.0 0.37 1.0

triangle lightness t^*



MRS18; adapted (a) CIELAB data

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

%Gamut
 $u^*_{rel} = 91$
 %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
 $LAB^*LAB = 95.41, -0.97, 4.75$
 $LAB^*LABa = 95.41, 0.0, 0.0$
 $LAB^*TCHa = 99.99, 0.01, -$

relative CIELAB lab*
 $lab^*lab = 1.0, 0.0, 0.0$
 $lab^*tch = 1.0, 0.0, -$
 $lab^*nch = 0.0, 0.0, -$

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)
 $olvi3^* = 0.5, 0.684, 1.0, (1.0)$
 $cmyn3^* = 0.5, 0.316, 0.0, (0.0)$
 $olvi4^* = 0.5, 0.684, 1.0, 1.0$
 $cmyn4^* = 0.5, 0.316, 0.0, 0.0$

standard and adapted CIELAB
 $LAB^*LAB = 67.57, 0.17, -22.28$
 $LAB^*LABa = 67.57, 0.61, -25.16$
 $LAB^*TCHa = 75.0, 25.18, 271.4$

relative CIELAB lab*
 $lab^*lab = 0.64, 0.012, -0.499$
 $lab^*tch = 0.75, 0.5, 0.754$
 $lab^*nch = 0.0, 0.5, 0.754$

relative Natural Colour (NC)
 $lab^*lrj = 0.64, 0.0, -0.499$
 $lab^*tce = 0.75, 0.5, 0.75$
 $lab^*nce = 0.0, 0.5, g99b$

relative Inform. Technology (IT)
 $olvi3^* = 0.5, 0.5, 0.5, (1.0)$
 $cmyn3^* = 0.5, 0.5, 0.5, (0.0)$
 $olvi4^* = 1.0, 1.0, 1.0, 0.5$
 $cmyn4^* = 0.0, 0.0, 0.0, 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 56.71, -0.23, 2.14$
 $LAB^*LABa = 56.71, 0.0, 0.0$
 $LAB^*TCHa = 50.0, 0.01, -$

relative CIELAB lab*
 $lab^*lab = 0.5, 0.0, 0.0$
 $lab^*tch = 0.5, 0.0, -$
 $lab^*nch = 0.5, 0.0, -$

relative Natural Colour (NC)
 $lab^*lrj = 0.5, 0.0, 0.0$
 $lab^*tce = 0.5, 0.0, -$
 $lab^*nce = 0.5, 0.0, -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0, 0.184, 0.5, (1.0)$
 $cmyn3^* = 1.0, 0.816, 0.5, (0.0)$
 $olvi4^* = 0.5, 0.684, 1.0, 0.5$
 $cmyn4^* = 0.5, 0.316, 0.0, 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 28.87, 0.92, -24.9$
 $LAB^*LABa = 28.87, 0.62, -25.16$
 $LAB^*TCHa = 25.01, 25.18, 271.41$

relative CIELAB lab*
 $lab^*lab = 0.14, 0.012, -0.499$
 $lab^*tch = 0.25, 0.5, 0.754$
 $lab^*nch = 0.5, 0.5, 0.754$

relative Natural Colour (NC)
 $lab^*lrj = 0.14, 0.0, -0.499$
 $lab^*tce = 0.25, 0.5, 0.75$
 $lab^*nce = 0.5, 0.5, b00r$

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
 $LAB^*LAB = 18.02, 0.5, -0.46$
 $LAB^*LABa = 18.02, 0.0, 0.0$
 $LAB^*TCHa = 18.01, 0.01, -$

relative CIELAB lab*
 $lab^*lab = 0.0, 0.0, 0.0$
 $lab^*tch = 0.0, 0.0, -$
 $lab^*nch = 1.0, 0.0, -$

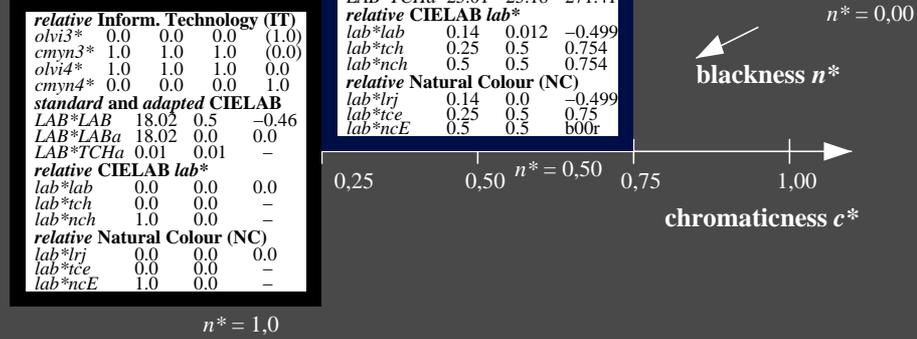
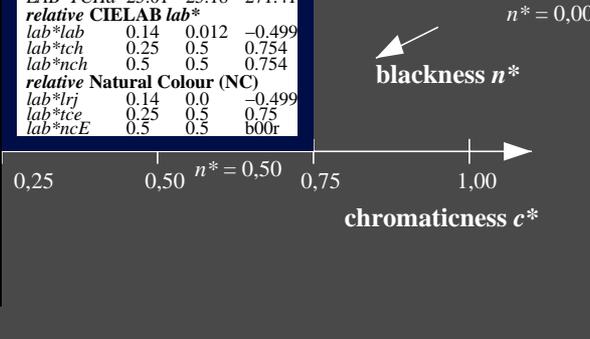
relative Natural Colour (NC)
 $lab^*lrj = 0.0, 0.0, 0.0$
 $lab^*tce = 0.0, 0.0, -$
 $lab^*nce = 1.0, 0.0, -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0, 0.184, 0.5, (1.0)$
 $cmyn3^* = 1.0, 0.816, 0.5, (0.0)$
 $olvi4^* = 0.5, 0.684, 1.0, 0.5$
 $cmyn4^* = 0.5, 0.316, 0.0, 0.5$

standard and adapted CIELAB
 $LAB^*LAB = 28.87, 0.92, -24.9$
 $LAB^*LABa = 28.87, 0.62, -25.16$
 $LAB^*TCHa = 25.01, 25.18, 271.41$

relative CIELAB lab*
 $lab^*lab = 0.14, 0.012, -0.499$
 $lab^*tch = 0.25, 0.5, 0.754$
 $lab^*nch = 0.5, 0.5, 0.754$

relative Natural Colour (NC)
 $lab^*lrj = 0.14, 0.0, -0.499$
 $lab^*tce = 0.25, 0.5, 0.75$
 $lab^*nce = 0.5, 0.5, b00r$



UE140-7, 3 step scales for constant CIELAB hue 271/360 = 0.754 (left)

3 step scales for constant CIELAB hue 271/360 = 0.754 (right)

BAM-test chart UE14; Colorimetric systems MRS18 & MRS18
 D65: 2 coordinate data of 3 step colour scales for 10 hues

input: $cmv0^* setcmvcolor$
 output: $olv^* setrgbcolor / w^* setgray$