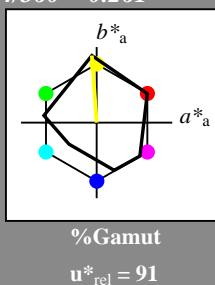
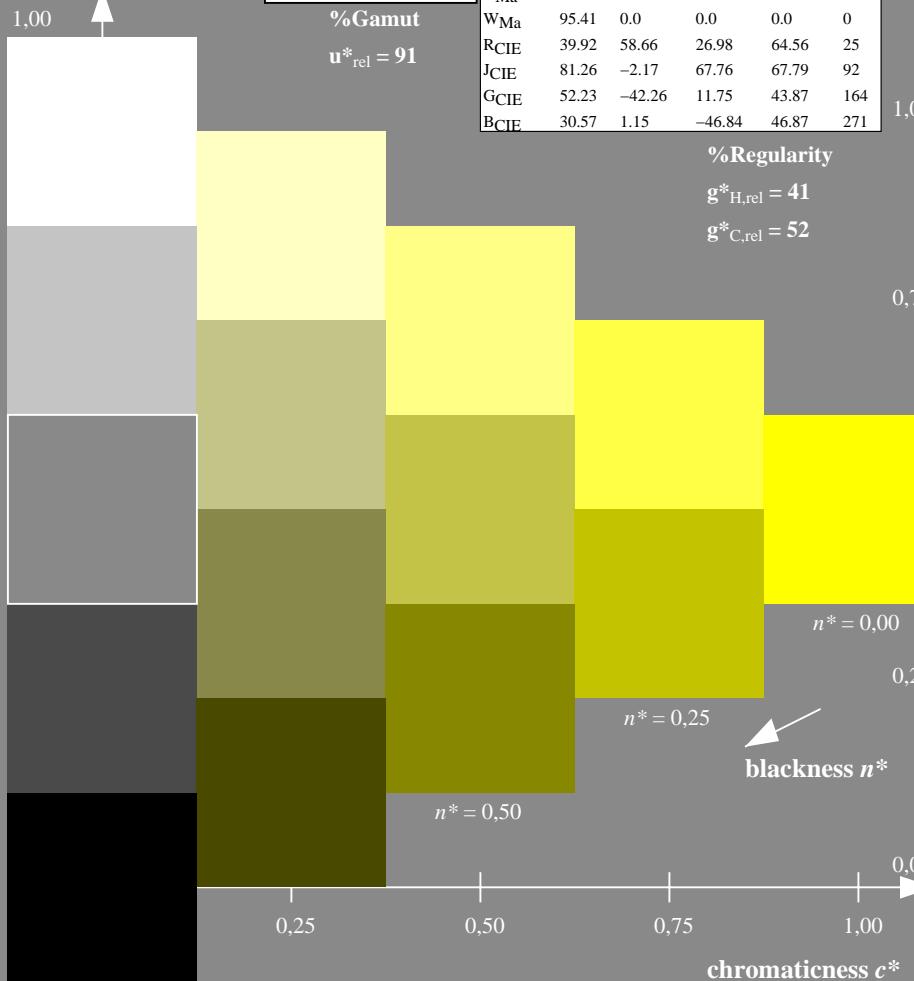


for hue  $h^* = lab^*h = 94/360$   
 $lab^*tch$  and  $lab^*nch$

D65: hue J  
LCH\*Ma: 91 89 94  
rgb\*Ma: 1.0 1.0 0.0  
triangle lightness



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
B <sub>1</sub> Ma	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
N <sub>1</sub> Ma	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
R <sub>1</sub> CIE	39.92	58.66	26.98	64.56	25
J <sub>1</sub> CIE	81.26	-2.17	67.76	67.79	92
G <sub>1</sub> CIE	52.23	-42.26	11.75	43.87	164
B <sub>1</sub> CIE	30.57	1.15	-46.84	46.87	271

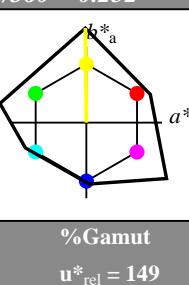


UE430-7. 5 step scales for constant CIELAB hue 94/360 = 0.261 (left)

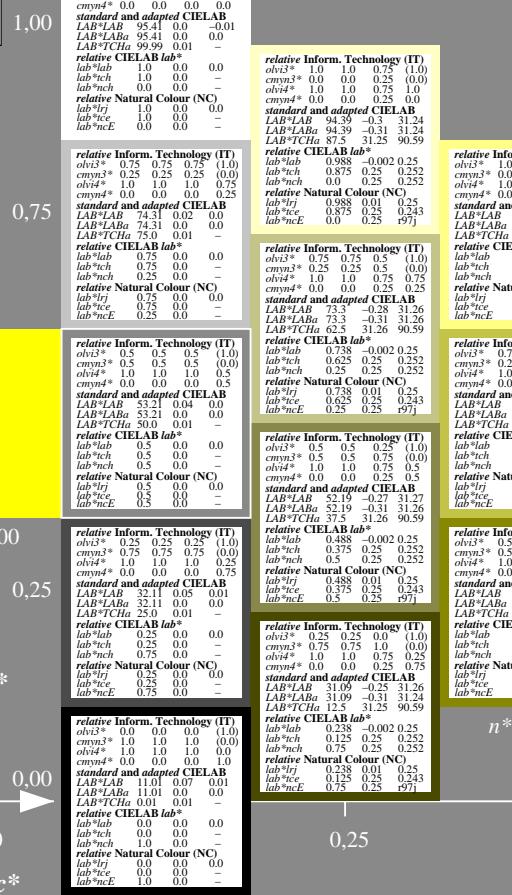
## BAM-test chart UE43; Colorimetric systems MRS18 & NCsD65: 5 step colour scales and coordinate data for 10 hues

**Output: Colorimetric Reflective System NCS11  
for hue  $h^* = lab^*h = 91/360 \approx 0.252$**

*lab\*tch* and *lab\*nch*  
**D65:** hue J  
**LCH\*Ma:** 91 125 91  
**rgb\*Ma:** 1.0 1.0 0.0  
triangle lightness



NCS11; adapted (a) CIELAB data					
	$L^* = L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R <sub>Ma</sub>	47.15	84.64	37.25	92.48	24
J <sub>Ma</sub>	91.37	-1.27	125.03	125.03	91
G <sub>Ma</sub>	63.07	-114.28	25.35	117.06	167
G50B <sub>Ma</sub>	59.47	-80.6	-33.45	87.28	203
B <sub>Ma</sub>	49.01	3.65	-81.19	81.28	273
B50R <sub>Ma</sub>	44.06	106.09	-73.93	129.32	325
N <sub>Ma</sub>	10.99	0.0	0.0	0.0	0
W <sub>Ma</sub>	95.41	0.0	0.0	0.0	0
R <sub>CIE</sub>	39.92	58.69	27.98	65.01	25
J <sub>CIE</sub>	81.26	-2.9	71.56	71.62	92
G <sub>CIE</sub>	52.23	-42.45	13.59	44.59	162
B <sub>CIE</sub>	30.57	1.35	-46.48	46.51	272



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

**put: cmy0\* setcmykcolor**



See for similar files: <http://www.ps.bam.de/UE43/>  
 Technical information: <http://www.ps.bam.de>

Version 2.1, io=0,1, CIEXYZ



www.ps.bam.de/UE43/10L/L43E02FP.PS/.PDF; linearized output  
 F: Output Linearization (OL) data UE43/10L/L43E02FP.DAT in File (F)

**Input: Colorimetric Reflective System MRS18**

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

$lab^*tch$  and  $lab^*nch$

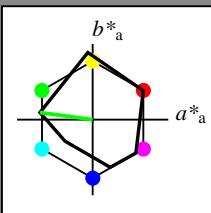
D65: hue G

LCH\*Ma: 52 70 172

rgb\*Ma: 0.0 1.0 0.0

triangle lightness

1,00

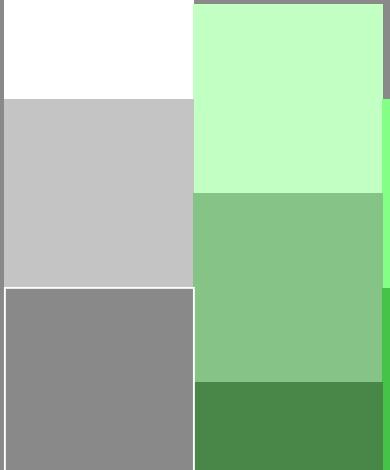


**MRS18; adapted (a) CIELAB data**

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

$u^*_{rel} = 91$



0,00

0,25

0,50

0,75

1,00

**%Regularity**

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

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

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness  $n^*$

chromaticness  $c^*$

$n^* = 1,0$

UE430-7, 5 step scales for constant CIELAB hue 172/360 = 0.479 (left)

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input:  $cmy0^* setcmykcolor$

D65: 5 step colour scales and coordinate data for 10 hues

**Output: Colorimetric Reflective System NCS11**

for hue  $h^* = lab^*h = 167/360 = 0.465$

$lab^*tch$  and  $lab^*nch$

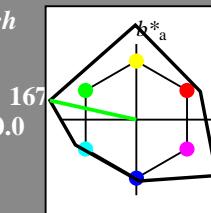
D65: hue G

LCH\*Ma: 63 117 167

rgb\*Ma: 0.0 1.0 0.0

triangle lightness

1,00



%Gamut

$u^*_{rel} = 149$

**%Regularity**

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

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

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

blackness  $n^*$

chromaticness  $c^*$

$n^* = 1,0$

5 step scales for constant CIELAB hue 167/360 = 0.465 (right)

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a output:  $olv^* setrgbcolor / w^* setgray$

D65: 5 step colour scales and coordinate data for 10 hues



See for similar files: <http://www.ps.bam.de/UE43/>

Technical information: <http://www.ps.bam.de> Version 2.1, io=01, CIEXYZ



**Input: Colorimetric Reflective System MRS18**

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

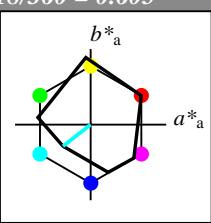
D65: hue G50B

LCH\*Ma: 45 46 218

rgb\*Ma: 0.0 1.0 1.0

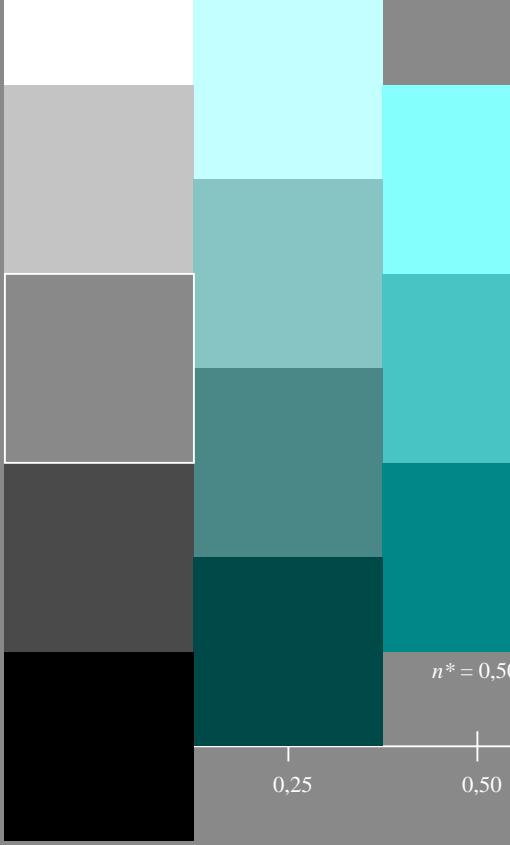
triangle lightness

1,00



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



UE430-7, 5 step scales for constant CIELAB hue 218/360 = 0.605 (left)

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input:  $cmy0^* \text{ setcmykcolor}$   
D65: 5 step colour scales and coordinate data for 10 hues output:  $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

**Output: Colorimetric Reflective System NCS11**

for hue  $h^* = lab^*h = 203/360 = 0.563$

$lab^*tch$  and  $lab^*nch$

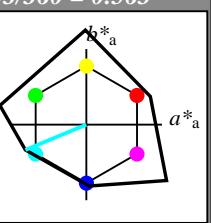
D65: hue G50B

LCH\*Ma: 59 87 203

rgb\*Ma: 0.0 1.0 1.0

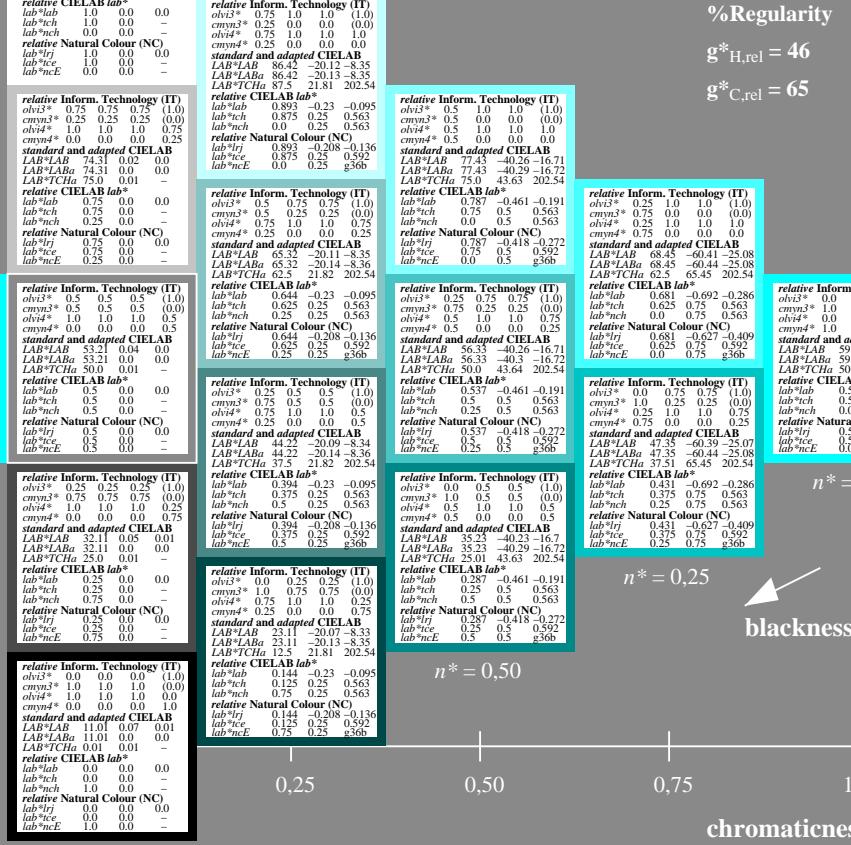
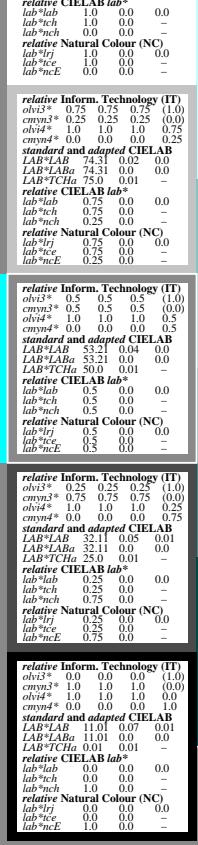
triangle lightness

1,00



NCS11; adapted (a) CIELAB data

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C_{ab,a}^*$	$h_{ab,a}^*$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272



5 step scales for constant CIELAB hue 203/360 = 0.563 (right)



Colorimetric Reflective System MRS18  
 for hue  $h^* = lab^*h = 290/360 = 0.806$

$lab^*tch$  and  $lab^*nch$

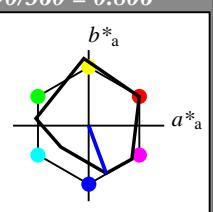
D65: hue B

LCH\*Ma: 37 67 290

rgb\*Ma: 0.0 0.0 1.0

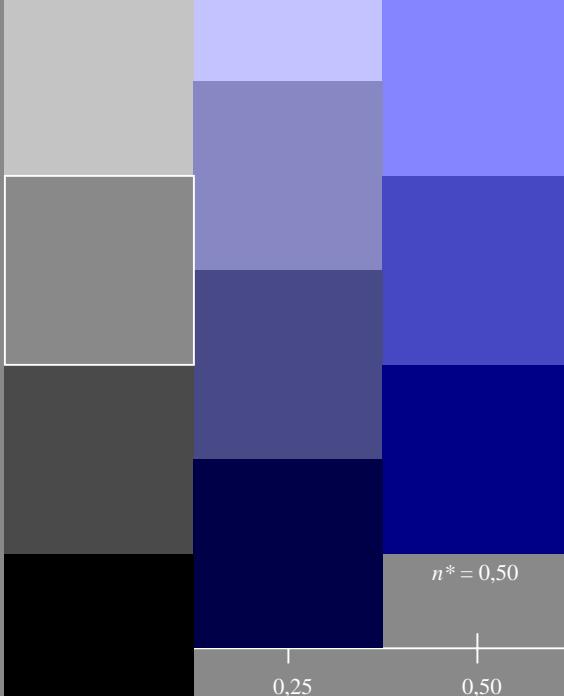
triangle lightness

1,00



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
JMa	90.7	-6.36	88.75	88.98
GMa	52.11	-69.73	9.44	172
G50BMa	45.03	-36.57	-28.47	46.36
BMa	36.65	23.19	-63.05	67.18
B50RMa	34.94	57.17	-44.26	72.31
NMa	18.01	0.0	0.0	0
WMa	95.41	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56
JCIE	81.26	-2.17	67.76	67.79
GCIE	52.23	-42.26	11.75	43.87
BCIE	30.57	1.15	-46.84	46.87
				271

%Regularity  
 $g^*_{H,rel} = 41$   
 $g^*_{C,rel} = 52$



UE430-7, 5 step scales for constant CIELAB hue 290/360 = 0.806 (left)

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input:  $cmy0^*$  setcmykcolor  
 D65: 5 step colour scales and coordinate data for 10 hues  
 output:  $olv^*$  setrgbcolor /  $w^*$  setgray

Output: Colorimetric Reflective System NCS11

for hue  $h^* = lab^*h = 273/360 = 0.757$

$lab^*tch$  and  $lab^*nch$

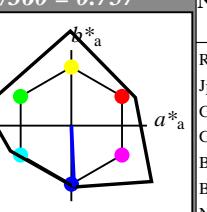
D65: hue B

LCH\*Ma: 49 81 273

rgb\*Ma: 0.0 0.0 1.0

triangle lightness

1,00

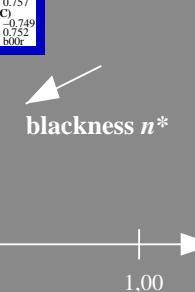
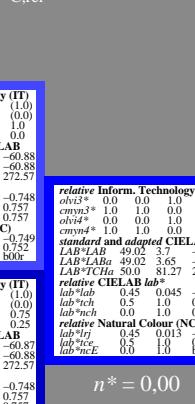


NCS11; adapted (a) CIELAB data				
$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C_{ab,a}^*$	$h_{ab,a}^*$
RMa	47.15	84.64	37.25	92.48
JMa	91.37	-1.27	125.03	125
GMa	63.07	-114.28	25.35	117.06
G50BMa	59.47	-80.6	-33.45	87.28
BMa	49.01	3.65	-81.19	81.28
B50RMa	44.06	106.09	-73.93	129.32
NMa	10.99	0.0	0.0	0
WMa	95.41	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01
JCIE	81.26	-2.9	71.56	71.62
GCIE	52.23	-42.45	13.59	44.59
BCIE	30.57	1.35	-46.48	46.51
				272

%Regularity

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

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



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

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input:  $cmy0^*$  setcmykcolor  
 D65: 5 step colour scales and coordinate data for 10 hues  
 output:  $olv^*$  setrgbcolor /  $w^*$  setgray

See for similar files: <http://www.ps.bam.de/UE43/>  
Technical information: <http://www.ps.bam.de>

Version 2.1, io=0.1, CIEXYZ

Input: Colorimetric Reflective System MRS18

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

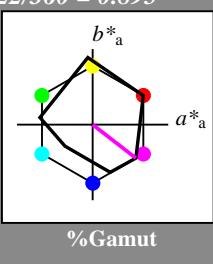
D65: hue B50R

LCH\*Ma: 35 72 322

rgb\*Ma: 1.0 0.0 1.0

triangle lightness

1,00



MRS18; adapted (a) CIELAB data

	$L^*$	$a^*$	$b^*$	$C^*$	$h^*$
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

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

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

Output: Colorimetric Reflective System NCS11

for hue  $h^* = lab^*h = 325/360 = 0.903$

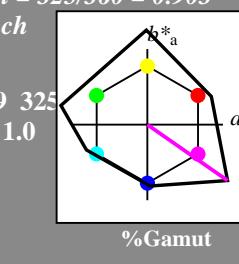
$lab^*tch$  and  $lab^*nch$

D65: hue B50R

LCH\*Ma: 44 129 325

rgb\*Ma: 1.0 0.0 1.0

triangle lightness



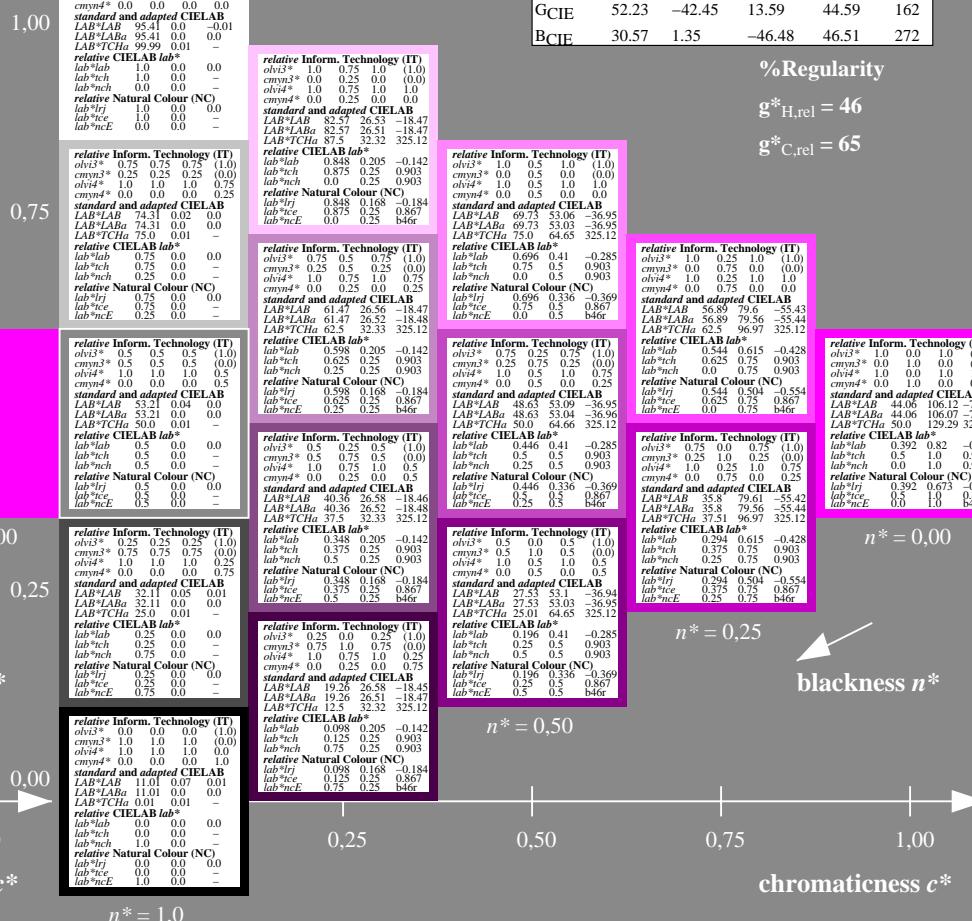
NCS11; adapted (a) CIELAB data

	$L^*$	$a^*$	$b^*$	$C^*$	$h^*$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

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

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



chromaticness  $c^*$

UE430-7, 5 step scales for constant CIELAB hue 322/360 = 0.895 (left)

5 step scales for constant CIELAB hue 325/360 = 0.903 (right)

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input:  $cmy0^* setcmykcolor$   
D65: 5 step colour scales and coordinate data for 10 hues output:  $olv^* setrgbcolor / w^* setgray$

www.ps.bam.de/UE43/10L/L43E06FP.PS/.PDF; linearized output  
 F: Output Linearization (OL) data UE43/10L/L43E06FP.DAT in File (F)

See for similar files: <http://www.ps.bam.de/UE43/>  
 Technical information: <http://www.ps.bam.de>

Version 2.1, io=0/1, CIEXYZ

Input: Colorimetric Reflective System MRS18

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

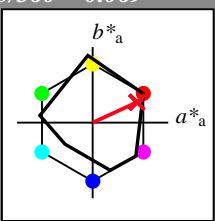
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 48 73 25

rgb\*Ma: 1.0 0.0 0.1

triangle lightness



MRS18; adapted (a) CIELAB data

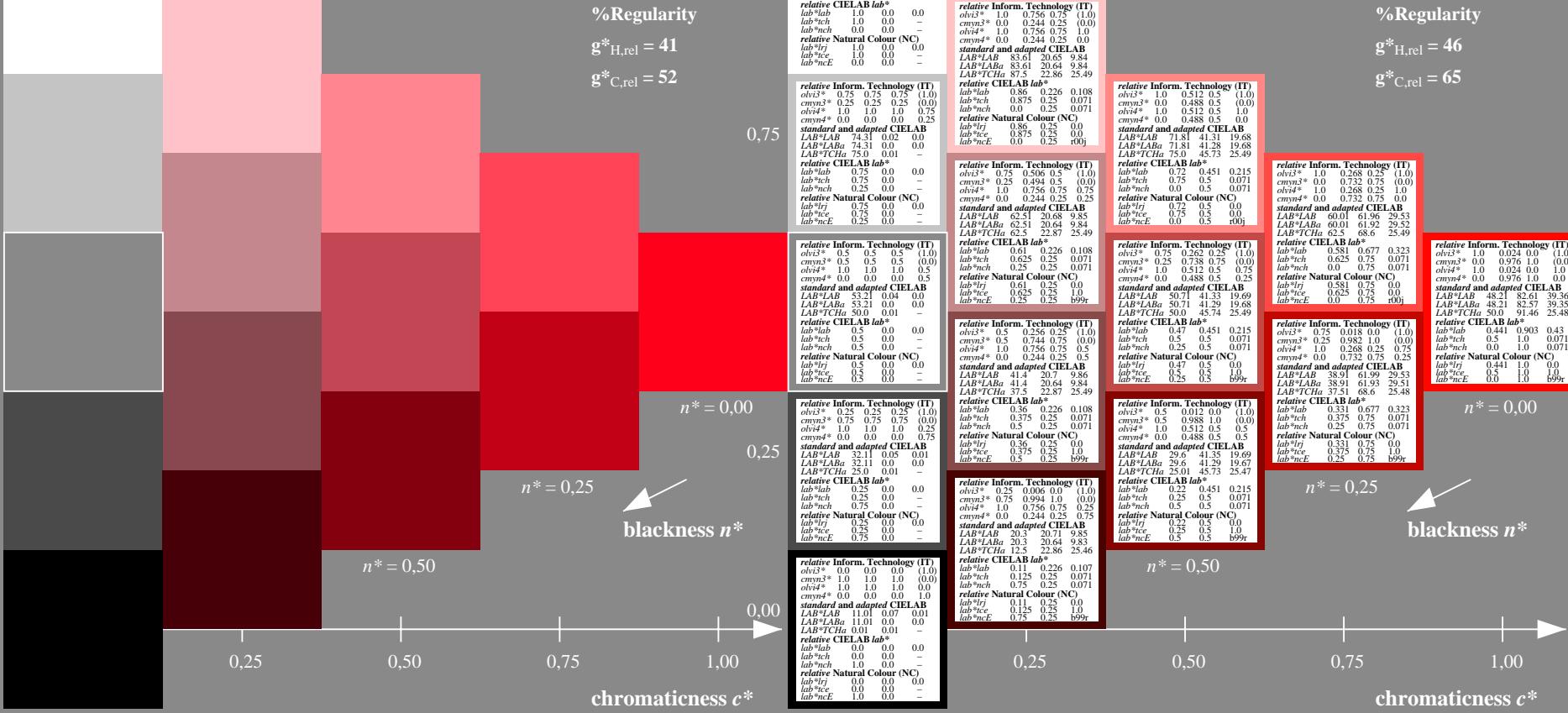
	$L^*$	$a^*$	$b^*$	$C^*$	$h^*$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.56	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

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

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



UE430-7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

Output: Colorimetric Reflective System NCS11

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

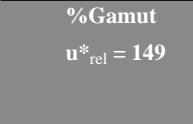
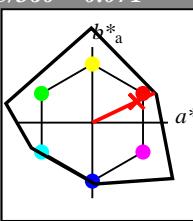
$lab^*tch$  and  $lab^*nch$

D65: hue R

LCH\*Ma: 48 91 25

rgb\*Ma: 1.0 0.02 0.0

triangle lightness



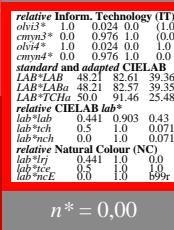
NCS11; adapted (a) CIELAB data

	$L^*$	$a^*$	$b^*$	$C^*$	$h^*$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

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

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



n\* = 0,00

blackness n\*

chromaticness c\*

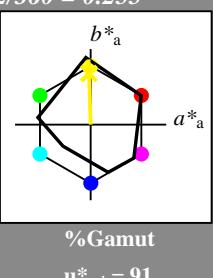
5 step scales for constant CIELAB hue 25/360 = 0.071 (right)

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input:  $cmy0^* \text{setcmykcolor}$   
 D65: 5 step colour scales and coordinate data for 10 hues  
 output:  $olv^* \text{setrgbcolor} / w^* \text{setgray}$

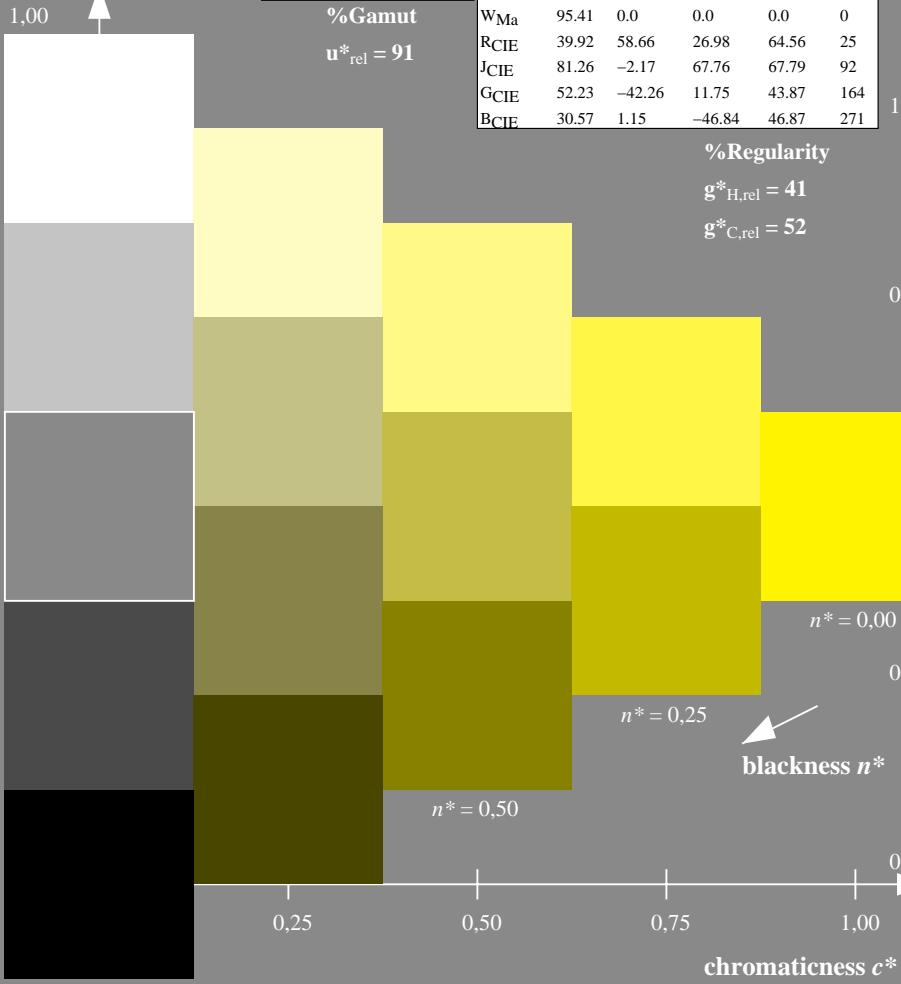
www.ps.bam.de/UE43/10L/L43E07FP.PS/.PDF; linearized output  
 F: Output Linearization (OL) data UE43/10L/L43E07FP.DAT in File (F)

Input: Colorimetric Reflective System MRS18  
 for hue  $h^* = lab^*h = 92/360 = 0.255$   
 $lab^*tch$  and  $lab^*nch$

D65: hue J  
 LCH\*Ma: 89 86 92  
 rgb\*Ma: 1.0 0.95 0.0  
 triangle lightness



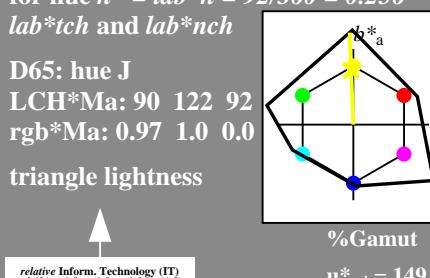
	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	49.63	66.96	38.37	77.18	30
JMa	90.7	-6.36	88.75	88.98	94
GMa	52.11	-69.73	9.44	70.37	172
G50BMa	45.03	-36.57	-28.47	46.36	218
BMa	36.65	23.19	-63.05	67.18	290
B50RMa	34.94	57.17	-44.26	72.31	322
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
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



UE430-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input:  $cmy0^* \text{ setcmykcolor}$   
 D65: 5 step colour scales and coordinate data for 10 hues output:  $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

Output: Colorimetric Reflective System NCS11  
 for hue  $h^* = lab^*h = 92/360 = 0.256$



	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.984	1.0	0.5	(1.0)	
JMa	0.016	0.0	0.5	(0.0)	
GMa	0.984	1.0	0.5	(1.0)	
G50BMa	0.024	0.0	0.5	(0.0)	
BMa	0.984	1.0	0.5	(1.0)	
B50RMa	0.024	0.0	0.5	(0.0)	
NMa	0.984	1.0	0.5	(1.0)	
WMa	0.984	1.0	0.5	(1.0)	
RCIE	0.984	1.0	0.5	(1.0)	
JCIE	0.984	1.0	0.5	(1.0)	
GCIE	0.984	1.0	0.5	(1.0)	
BCIE	0.984	1.0	0.5	(1.0)	

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.973	0.75	0.25	(1.0)	
JMa	0.255	0.25	0.25	(0.0)	
GMa	0.973	0.75	0.25	(1.0)	
G50BMa	0.008	0.0	0.5	(0.0)	
BMa	0.973	0.75	0.25	(1.0)	
B50RMa	0.008	0.0	0.5	(0.0)	
NMa	0.973	0.75	0.25	(1.0)	
WMa	0.973	0.75	0.25	(1.0)	
RCIE	0.973	0.75	0.25	(1.0)	
JCIE	0.973	0.75	0.25	(1.0)	
GCIE	0.973	0.75	0.25	(1.0)	
BCIE	0.973	0.75	0.25	(1.0)	

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.973	0.75	0.25	(1.0)	
JMa	0.255	0.25	0.25	(0.0)	
GMa	0.973	0.75	0.25	(1.0)	
G50BMa	0.008	0.0	0.5	(0.0)	
BMa	0.973	0.75	0.25	(1.0)	
B50RMa	0.008	0.0	0.5	(0.0)	
NMa	0.973	0.75	0.25	(1.0)	
WMa	0.973	0.75	0.25	(1.0)	
RCIE	0.973	0.75	0.25	(1.0)	
JCIE	0.973	0.75	0.25	(1.0)	
GCIE	0.973	0.75	0.25	(1.0)	
BCIE	0.973	0.75	0.25	(1.0)	

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.973	0.75	0.25	(1.0)	
JMa	0.255	0.25	0.25	(0.0)	
GMa	0.973	0.75	0.25	(1.0)	
G50BMa	0.008	0.0	0.5	(0.0)	
BMa	0.973	0.75	0.25	(1.0)	
B50RMa	0.008	0.0	0.5	(0.0)	
NMa	0.973	0.75	0.25	(1.0)	
WMa	0.973	0.75	0.25	(1.0)	
RCIE	0.973	0.75	0.25	(1.0)	
JCIE	0.973	0.75	0.25	(1.0)	
GCIE	0.973	0.75	0.25	(1.0)	
BCIE	0.973	0.75	0.25	(1.0)	

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.973	0.75	0.25	(1.0)	
JMa	0.255	0.25	0.25	(0.0)	
GMa	0.973	0.75	0.25	(1.0)	
G50BMa	0.008	0.0	0.5	(0.0)	
BMa	0.973	0.75	0.25	(1.0)	
B50RMa	0.008	0.0	0.5	(0.0)	
NMa	0.973	0.75	0.25	(1.0)	
WMa	0.973	0.75	0.25	(1.0)	
RCIE	0.973	0.75	0.25	(1.0)	
JCIE	0.973	0.75	0.25	(1.0)	
GCIE	0.973	0.75	0.25	(1.0)	
BCIE	0.973	0.75	0.25	(1.0)	

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.973	0.75	0.25	(1.0)	
JMa	0.255	0.25	0.25	(0.0)	
GMa	0.973	0.75	0.25	(1.0)	
G50BMa	0.008	0.0	0.5	(0.0)	
BMa	0.973	0.75	0.25	(1.0)	
B50RMa	0.008	0.0	0.5	(0.0)	
NMa	0.973	0.75	0.25	(1.0)	
WMa	0.973	0.75	0.25	(1.0)	
RCIE	0.973	0.75	0.25	(1.0)	
JCIE	0.973	0.75	0.25	(1.0)	
GCIE	0.973	0.75	0.25	(1.0)	
BCIE	0.973	0.75	0.25	(1.0)	

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.973	0.75	0.25	(1.0)	
JMa	0.255	0.25	0.25	(0.0)	
GMa	0.973	0.75	0.25	(1.0)	
G50BMa	0.008	0.0	0.5	(0.0)	
BMa	0.973	0.75	0.25	(1.0)	
B50RMa	0.008	0.0	0.5	(0.0)	
NMa	0.973	0.75	0.25	(1.0)	
WMa	0.973	0.75	0.25	(1.0)	
RCIE	0.973	0.75	0.25	(1.0)	
JCIE	0.973	0.75	0.25	(1.0)	
GCIE	0.973	0.75	0.25	(1.0)	
BCIE	0.973	0.75	0.25	(1.0)	

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.973	0.75	0.25	(1.0)	
JMa	0.255	0.25	0.25	(0.0)	
GMa	0.973	0.75	0.25	(1.0)	
G50BMa	0.008	0.0	0.5	(0.0)	
BMa	0.973	0.75	0.25	(1.0)	
B50RMa	0.008	0.0	0.5	(0.0)	
NMa	0.973	0.75	0.25	(1.0)	
WMa	0.973	0.75	0.25	(1.0)	
RCIE	0.973	0.75	0.25	(1.0)	
JCIE	0.973	0.75	0.25	(1.0)	
GCIE	0.973	0.75	0.25	(1.0)	
BCIE	0.973	0.75	0.25	(1.0)	

	$L^*=L_a^*$	$a^*_a</math$
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See for similar files: <http://www.ps.bam.de/UE43/>

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

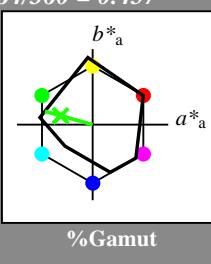
**Input: Colorimetric Reflective System MRS18**

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

D65: hue G  
 LCH\*Ma: 56 66 164  
 rgb\*Ma: 0.1 1.0 0.0

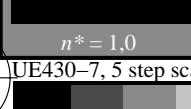
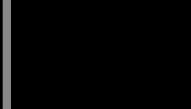
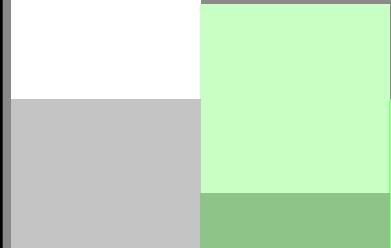
triangle lightness

1,00



**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



triangle lightness

1,00

%Regularity

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

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

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

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$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

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$n^* = 0,75$

chromaticness  $c^*$

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$n^* = 0,25$

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$n^* = 0,75$

chromaticness  $c^*$

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chromaticness  $c^*$

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$n^* = 0,75$

chromaticness  $c^*$

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$n^* = 0,75$

chromaticness  $c^*$

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chromaticness  $c^*$

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chromaticness  $c^*$

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chromaticness  $c^*$

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chromaticness  $c^*$

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chromaticness  $c^*$

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chromaticness  $c^*$

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chromaticness  $c^*$

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chromaticness  $c^*$

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chromaticness  $c^*$

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$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

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$n^* = 0,25$

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$n^* = 0,75$

chromaticness  $c^*$

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$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

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$n^* = 0,25$

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$n^* = 0,75$

chromaticness  $c^*$

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$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

chromaticness  $c^*$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

See for similar files: <http://www.ps.bam.de/UE43/>

Technical information: <http://www.ps.bam.de> Version 2.1, io=01, CIEXYZ

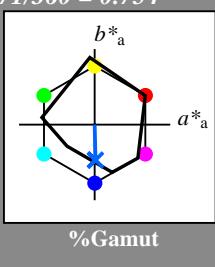
**Input: Colorimetric Reflective System MRS18**

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

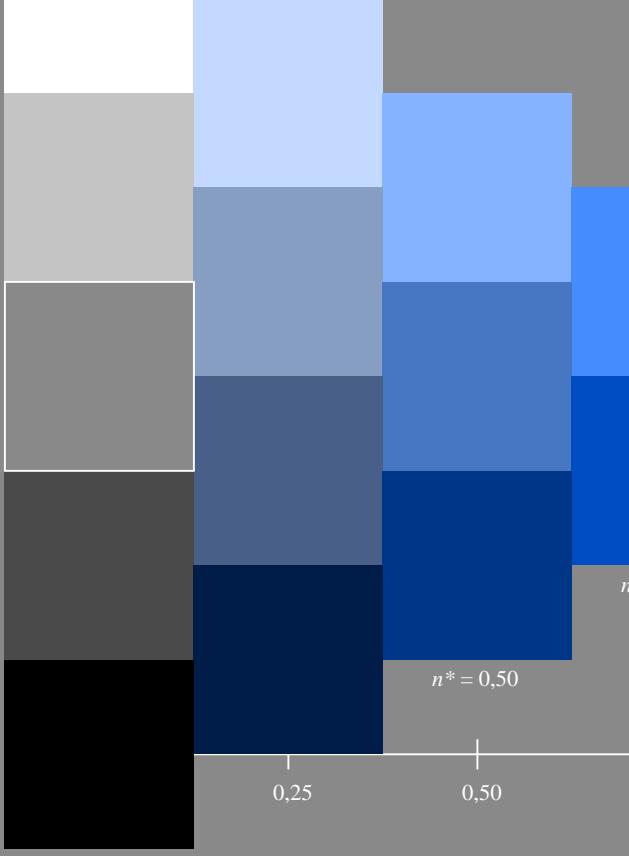
triangle lightness

1,00



**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



$n^* = 1,0$

%Regularity

$g^*_{H,rel} = 41$   
 $g^*_{C,rel} = 52$

**Output: Colorimetric Reflective System NCS11**

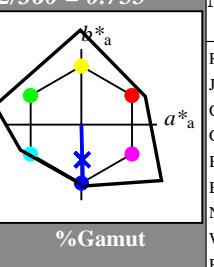
for hue  $h^* = lab^*h = 272/360 = 0.755$   
 $lab^*tch$  and  $lab^*nch$

D65: hue B

LCH\*Ma: 49 80 272  
 rgb\*Ma: 0.0 0.02 1.0

triangle lightness

1,00



%Gamut  
 $u^*_{rel} = 149$

**NCS11; adapted (a) CIELAB data**

	$L^*=L_a^*$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	47.15	84.64	37.25	92.48	24
JMa	91.37	-1.27	125.03	125.03	91
GMa	63.07	-114.28	25.35	117.06	167
G50BMa	59.47	-80.6	-33.45	87.28	203
BMa	49.01	3.65	-81.19	81.28	273
B50RMa	44.06	106.09	-73.93	129.32	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.69	27.98	65.01	25
JCIE	81.26	-2.9	71.56	71.62	92
GCIE	52.23	-42.45	13.59	44.59	162
BCIE	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 46$   
 $g^*_{C,rel} = 65$

$n^* = 0,00$

$0,00$

$0,25$

$0,50$

$0,75$

$1,00$

$chromaticness c^*$

$n^* = 1,0$

5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

$n^* = 0,00$

$0,00$

$0,25$

$0,50$

$0,75$

$1,00$

$chromaticness c^*$

$n^* = 1,0$

5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

BAM-test chart UE43; Colorimetric systems MRS18 & NCS11a input:  $cmy0^* setcmykcolor$   
 D65: 5 step colour scales and coordinate data for 10 hues output:  $olv^* setrgbcolor / w^* setgray$

www.ps.bam.de/UE43/10L/L43E09FP.PS/.PDF; linearized output