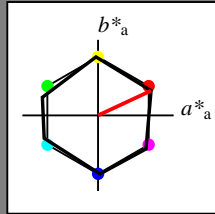


**Input: Colorimetric Natural Reflective System CNS18**

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

D65: hue R  
 LCH\*Ma: 57 77 25  
 olv\*Ma: 1.0 0.0 0.0  
 triangle lightness  $t^*$



**CNS18; adapted (a) CIELAB data**

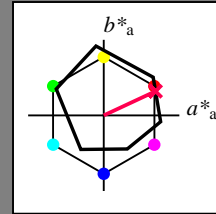
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

% Gamut  
 $u^*_{rel} = 100$   
 % Regularity  
 $g^*_{H,rel} = 59$   
 $g^*_{C,rel} = 100$

**Output: Colorimetric Offset Reflective System ORS18**

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

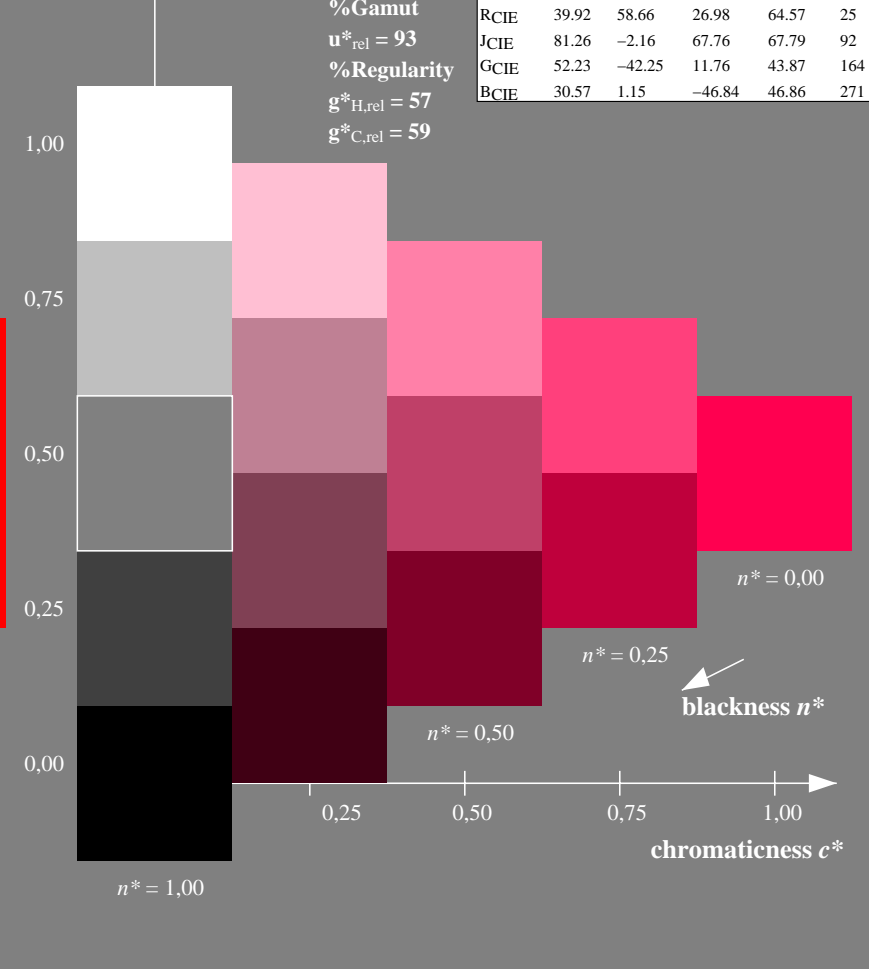
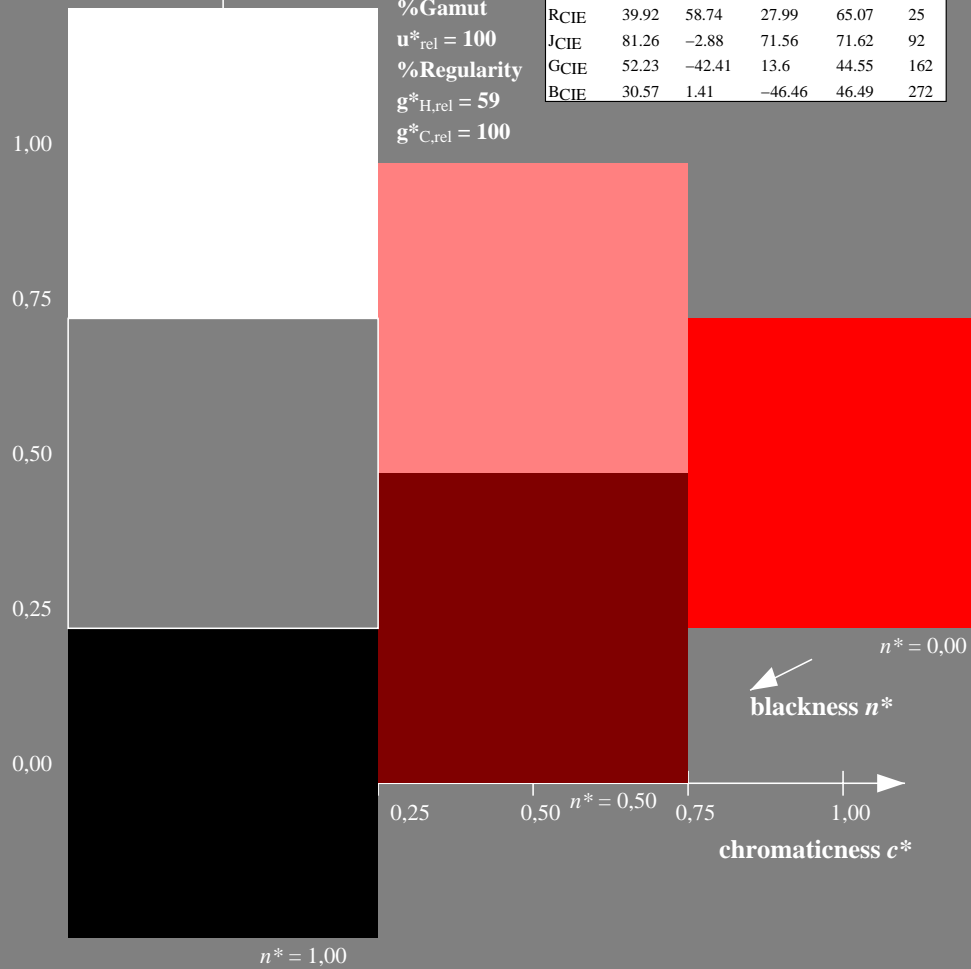
D65: hue O  
 LCH\*Ma: 48 76 25  
 olv\*Ma: 1.0 0.0 0.32  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

% Gamut  
 $u^*_{rel} = 93$   
 % Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$



VE480-7, 3 step scales for constant CIELAB hue 25/360 = 0.069 (left)

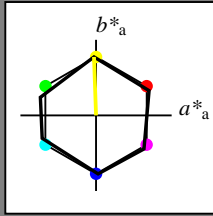
5 step scales for constant CIELAB hue 25/360 = 0.069 (right)

BAM-test chart VE48; Colorimetric systems CNS18 & ORS18 input: olv\* setrgbcolor  
 D65: 3 and 5 step colour scales for 10 hues output: no change compared to input

**Input: Colorimetric Natural Reflective System CNS18**

for hue  $h^* = lab^*h = 92/360 = 0.256$   
 $lab^*tch$  and  $lab^*nch$

D65: hue J  
 LCH\*Ma: 57 77 92  
 olv\*Ma: 1.0 1.0 0.0  
 triangle lightness  $t^*$



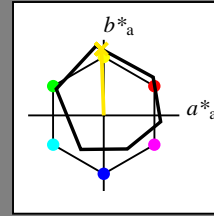
**CNS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

**Output: Colorimetric Offset Reflective System ORS18**

for hue  $h^* = lab^*h = 92/360 = 0.256$   
 $lab^*tch$  and  $lab^*nch$

D65: hue Y  
 LCH\*Ma: 86 88 92  
 olv\*Ma: 1.0 0.9 0.0  
 triangle lightness  $t^*$

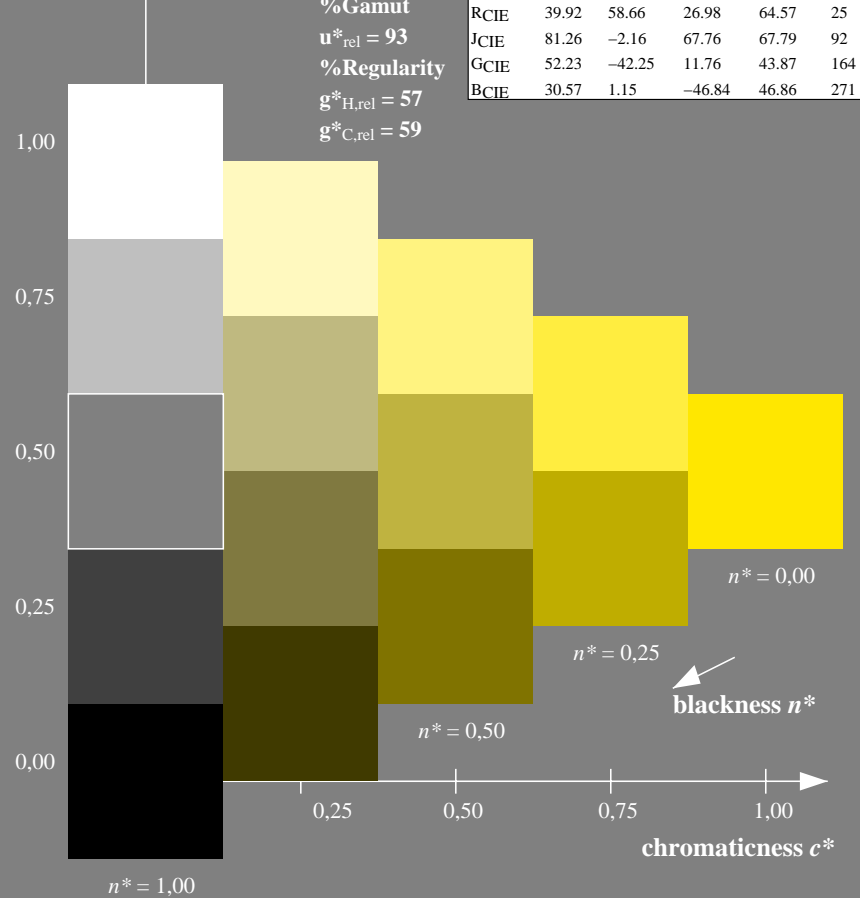
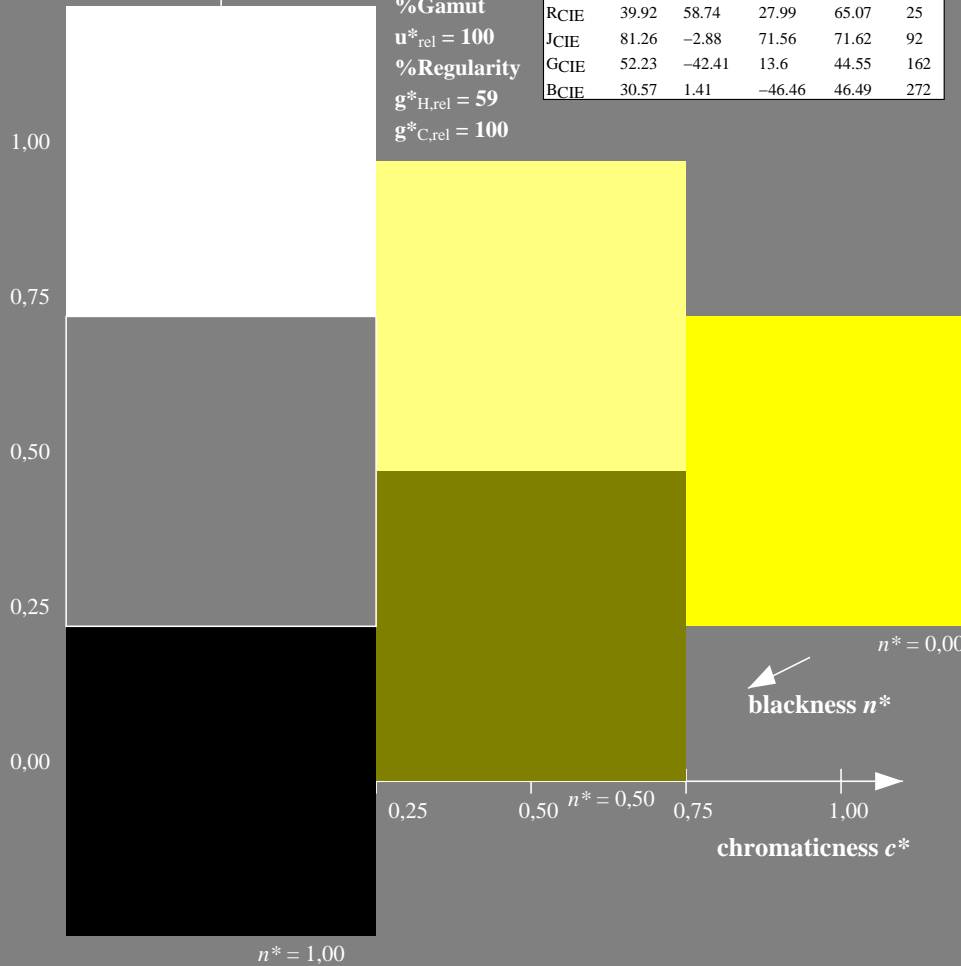


**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	92
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

% Gamut  
 $u^*_{rel} = 100$   
 % Regularity  
 $g^*_{H,rel} = 59$   
 $g^*_{C,rel} = 100$

% Gamut  
 $u^*_{rel} = 93$   
 % Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$



VE480-7, 3 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

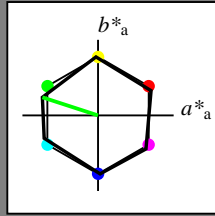
BAM-test chart VE48; Colorimetric systems CNS18 & ORS18  
 D65: 3 and 5 step colour scales for 10 hues

input: olv\* setrgbcolor  
 output: no change compared to input

**Input: Colorimetric Natural Reflective System CNS18**

for hue  $h^* = lab^*h = 162/360 = 0.45$   
 $lab^*tch$  and  $lab^*nch$

D65: hue G  
 LCH\*Ma: 57 77 162  
 olv\*Ma: 0.0 1.0 0.0  
 triangle lightness  $t^*$



**CNS18; adapted (a) CIELAB data**

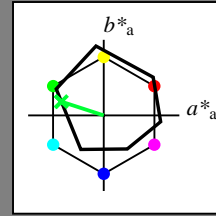
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

% Gamut  
 $u^*_{rel} = 100$   
 % Regularity  
 $g^*_{H,rel} = 59$   
 $g^*_{C,rel} = 100$

**Output: Colorimetric Offset Reflective System ORS18**

for hue  $h^* = lab^*h = 162/360 = 0.45$   
 $lab^*tch$  and  $lab^*nch$

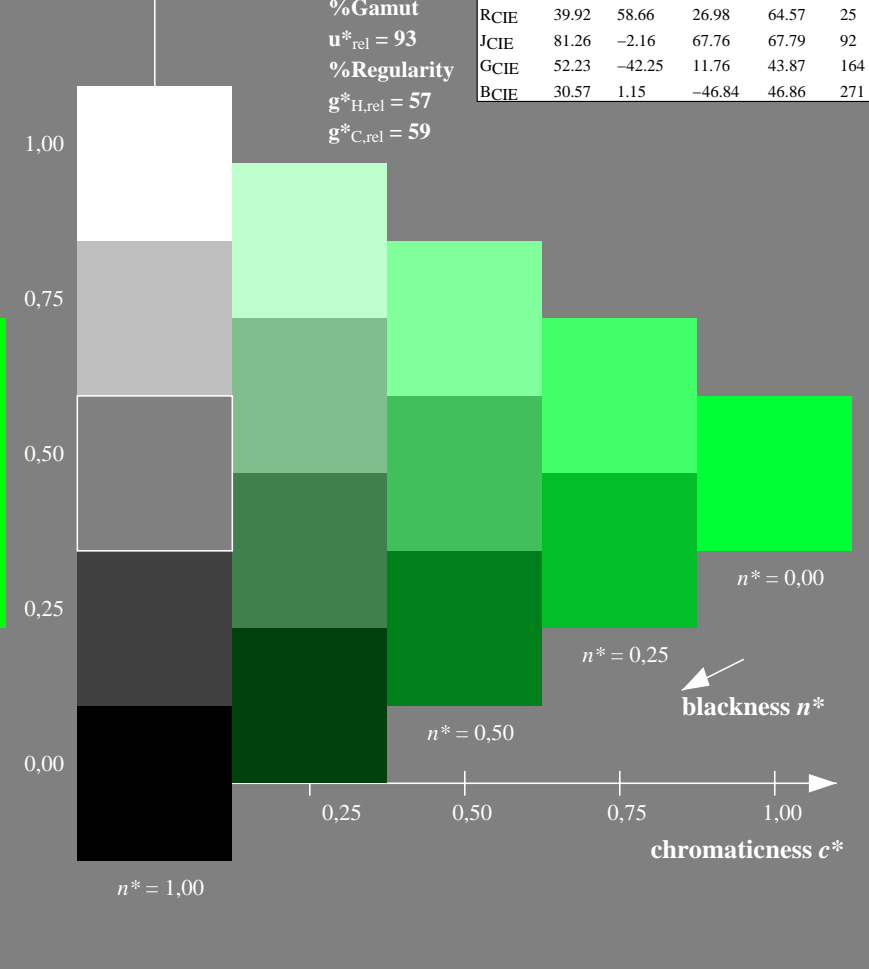
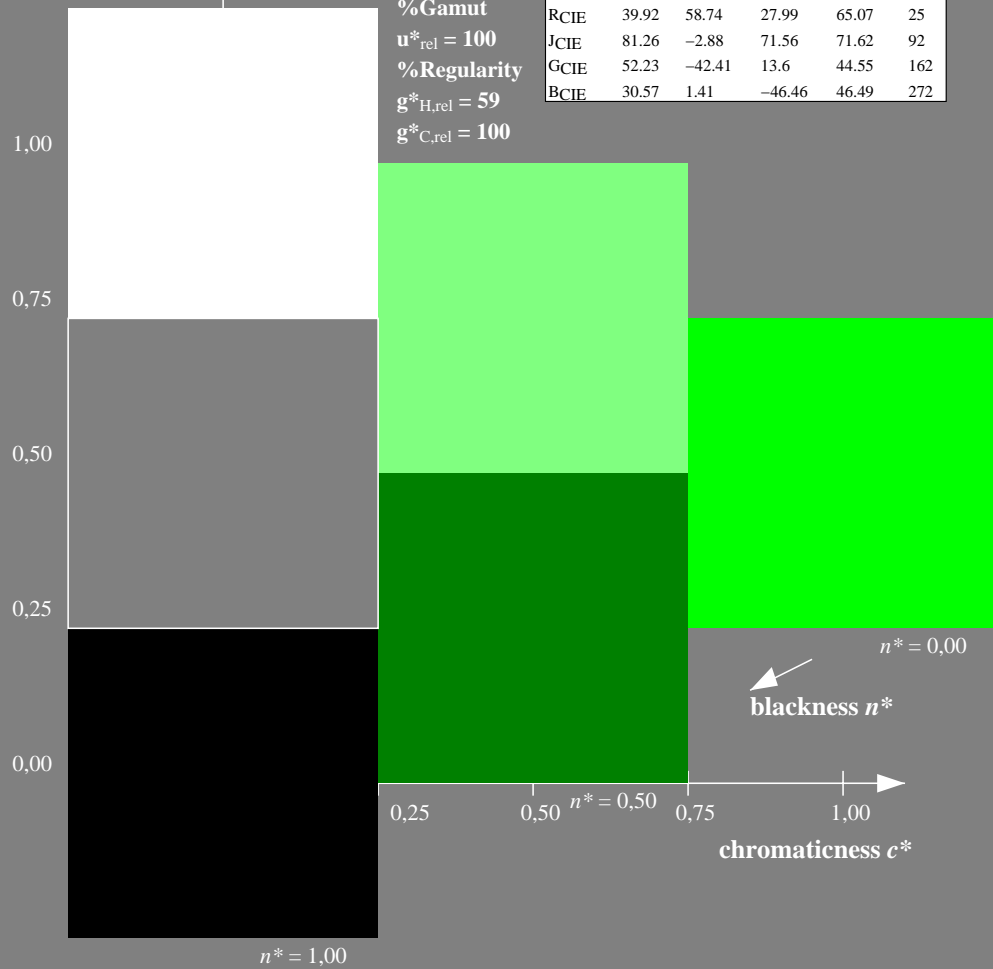
D65: hue L  
 LCH\*Ma: 53 59 162  
 olv\*Ma: 0.0 1.0 0.21  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

% Gamut  
 $u^*_{rel} = 93$   
 % Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$



VE480-7, 3 step scales for constant CIELAB hue 162/360 = 0.45 (left)

5 step scales for constant CIELAB hue 162/360 = 0.45 (right)

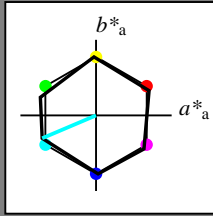
BAM-test chart VE48; Colorimetric systems CNS18 & ORS18  
 D65: 3 and 5 step colour scales for 10 hues

input: olv\* setrgbcolor  
 output: no change compared to input

**Input: Colorimetric Natural Reflective System CNS18**

for hue  $h^* = lab^*h = 203/360 = 0.564$   
 $lab^*tch$  and  $lab^*nch$

D65: hue G50B  
 LCH\*Ma: 57 77 203  
 olv\*Ma: 0.0 1.0 1.0  
 triangle lightness  $l^*$



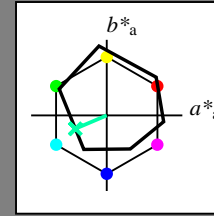
**CNS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

**Output: Colorimetric Offset Reflective System ORS18**

for hue  $h^* = lab^*h = 203/360 = 0.564$   
 $lab^*tch$  and  $lab^*nch$

D65: hue C  
 LCH\*Ma: 56 45 203  
 olv\*Ma: 0.0 1.0 0.66  
 triangle lightness  $l^*$

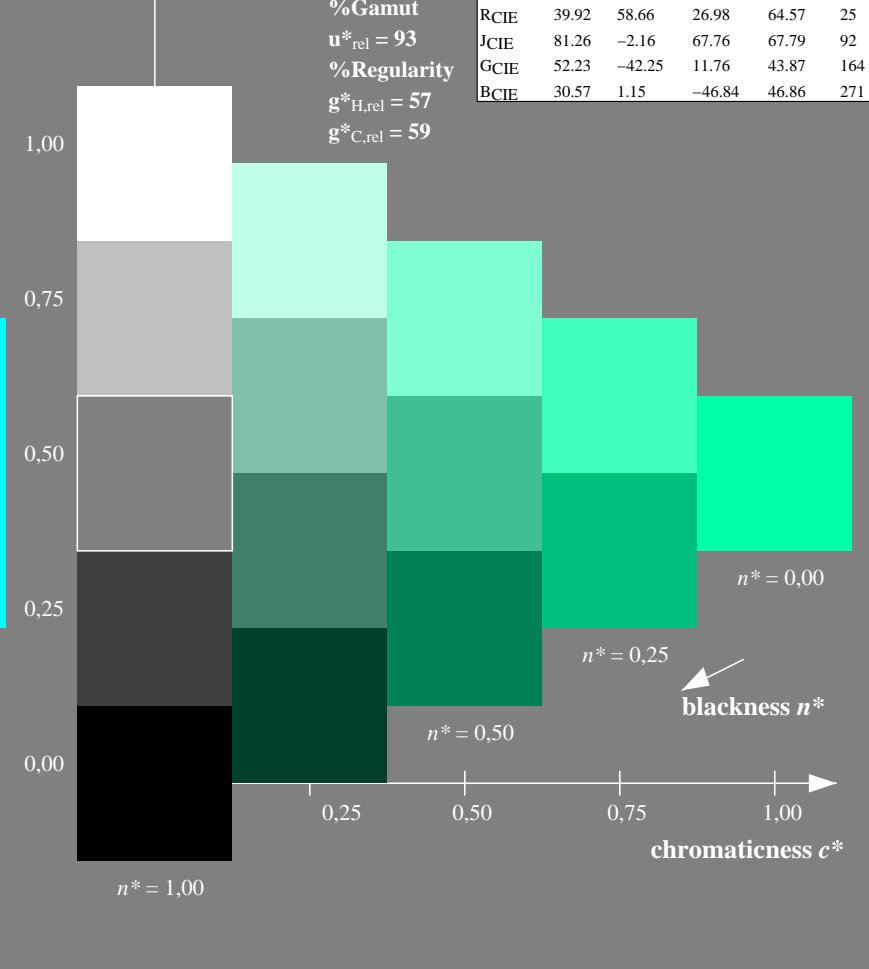
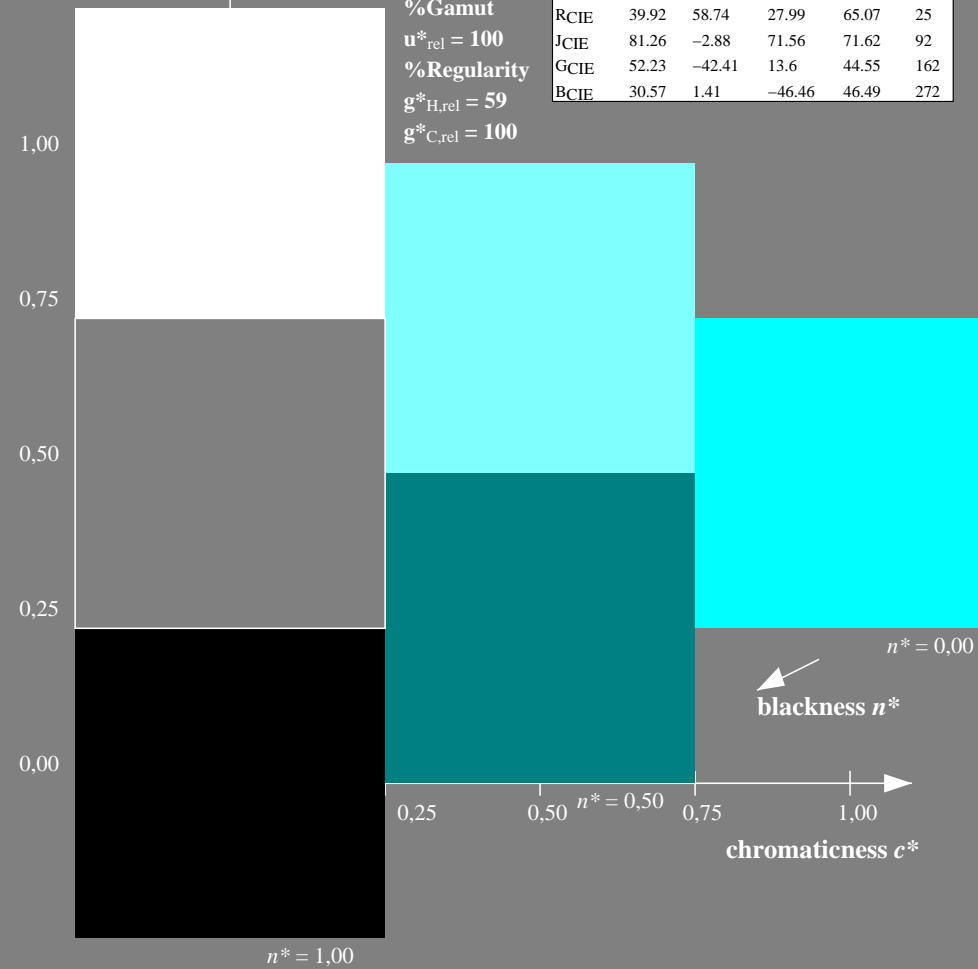


**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

%Gamut  
 $u^*_{rel} = 100$   
 %Regularity  
 $g^*_{H,rel} = 59$   
 $g^*_{C,rel} = 100$

%Gamut  
 $u^*_{rel} = 93$   
 %Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$



VE480-7, 3 step scales for constant CIELAB hue 203/360 = 0.564 (left)

5 step scales for constant CIELAB hue 203/360 = 0.564 (right)

BAM-test chart VE48; Colorimetric systems CNS18 & ORS18 input: olv\* setrgbcolor  
 D65: 3 and 5 step colour scales for 10 hues output: no change compared to input

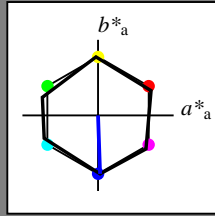
See for similar files: <http://www.ps.bam.de/VE48/>  
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM registration: 20060101-VE48/10L/L48E03NP.PS/.PDF BAM material: code=rh4ta  
 application for evaluation and measurement of printer or monitor systems  
 /VE48/ Form: 4/10, Serie: 1/1, Page: 4 Page count: 1

**Input: Colorimetric Natural Reflective System CNS18**

for hue  $h^* = lab^*h = 272/360 = 0.756$   
 $lab^*tch$  and  $lab^*nch$

D65: hue B  
 LCH\*Ma: 57 77 272  
 olv\*Ma: 0.0 0.0 1.0  
 triangle lightness  $t^*$



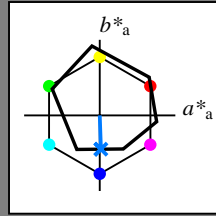
**CNS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

**Output: Colorimetric Offset Reflective System ORS18**

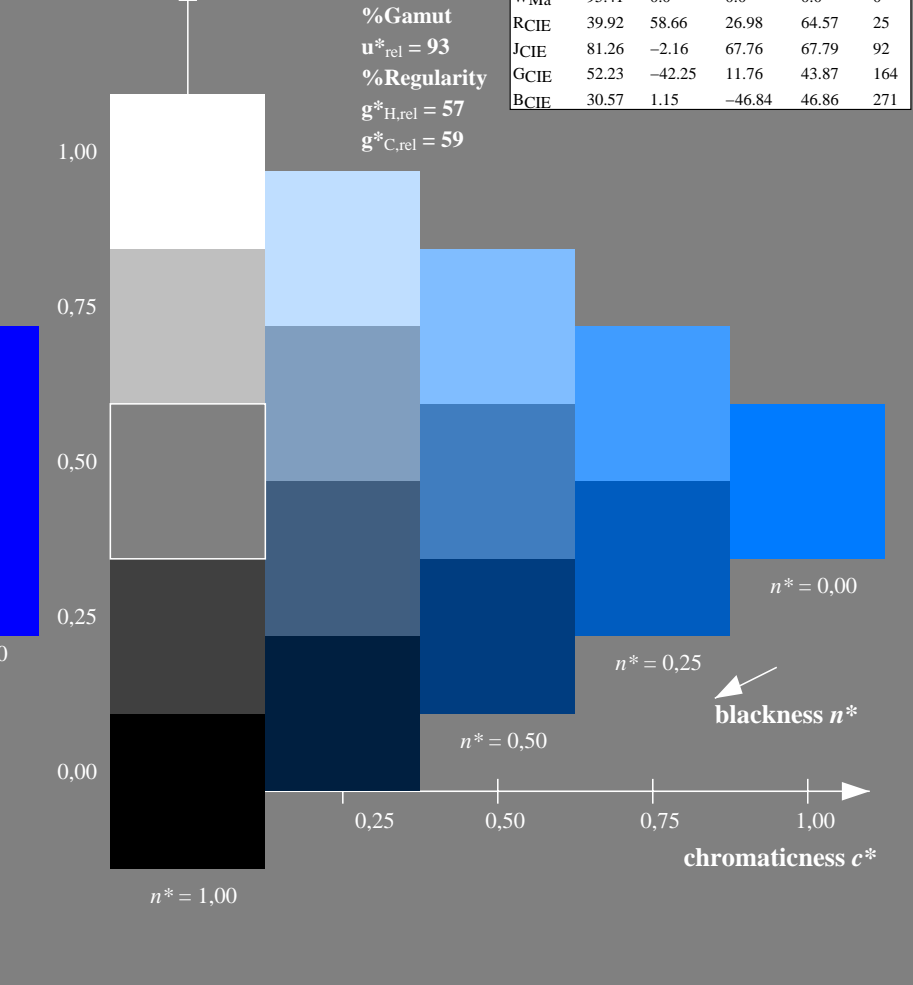
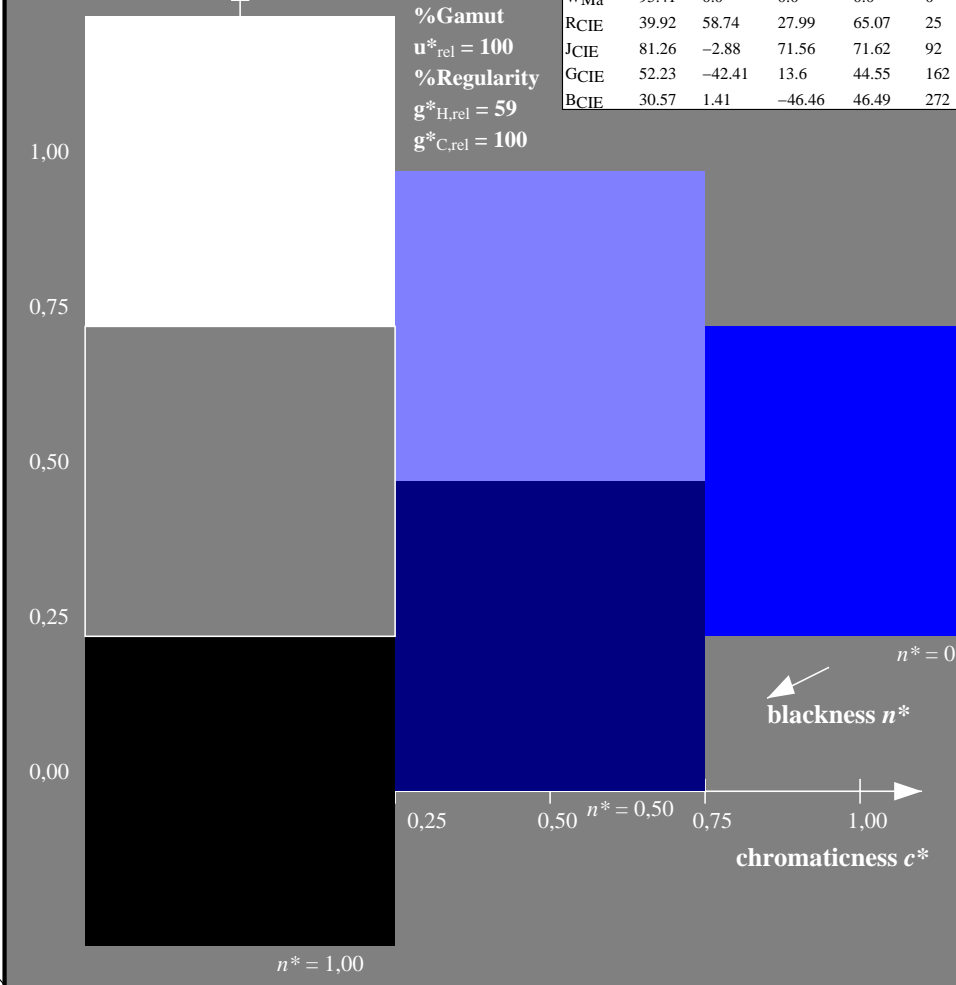
for hue  $h^* = lab^*h = 272/360 = 0.756$   
 $lab^*tch$  and  $lab^*nch$

D65: hue V  
 LCH\*Ma: 42 45 272  
 olv\*Ma: 0.0 0.48 1.0  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271



VE480-7, 3 step scales for constant CIELAB hue 272/360 = 0.756 (left)

5 step scales for constant CIELAB hue 272/360 = 0.756 (right)

BAM-test chart VE48; Colorimetric systems CNS18 & ORS18 input: olv\* setrgbcolor  
 D65: 3 and 5 step colour scales for 10 hues output: no change compared to input

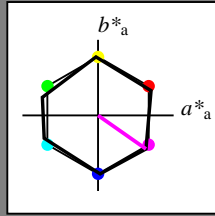
See for similar files: <http://www.ps.bam.de/VE48/>  
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM registration: 20060101-VE48/10L/L48E04NP.PS/.PDF BAM material: code=rhadata  
 application for evaluation and measurement of printer or monitor systems  
 /VE48/ Form: 5/10, Serie: 1/1, Page: 5 Page count: 1

**Input: Colorimetric Natural Reflective System CNS18**

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

D65: hue B50R  
 LCH\*Ma: 57 77 325  
 olv\*Ma: 1.0 0.0 1.0  
 triangle lightness  $t^*$



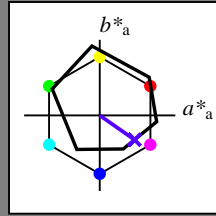
**CNS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

**Output: Colorimetric Offset Reflective System ORS18**

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

D65: hue M  
 LCH\*Ma: 33 56 325  
 olv\*Ma: 0.34 0.0 1.0  
 triangle lightness  $t^*$

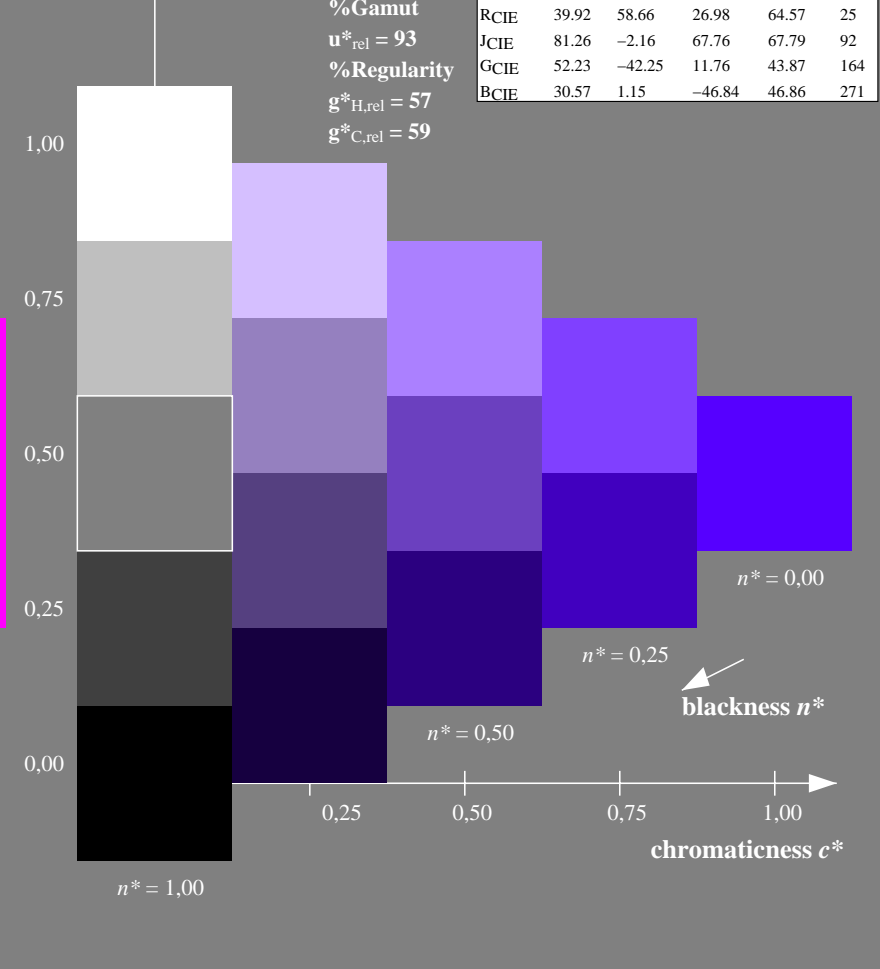
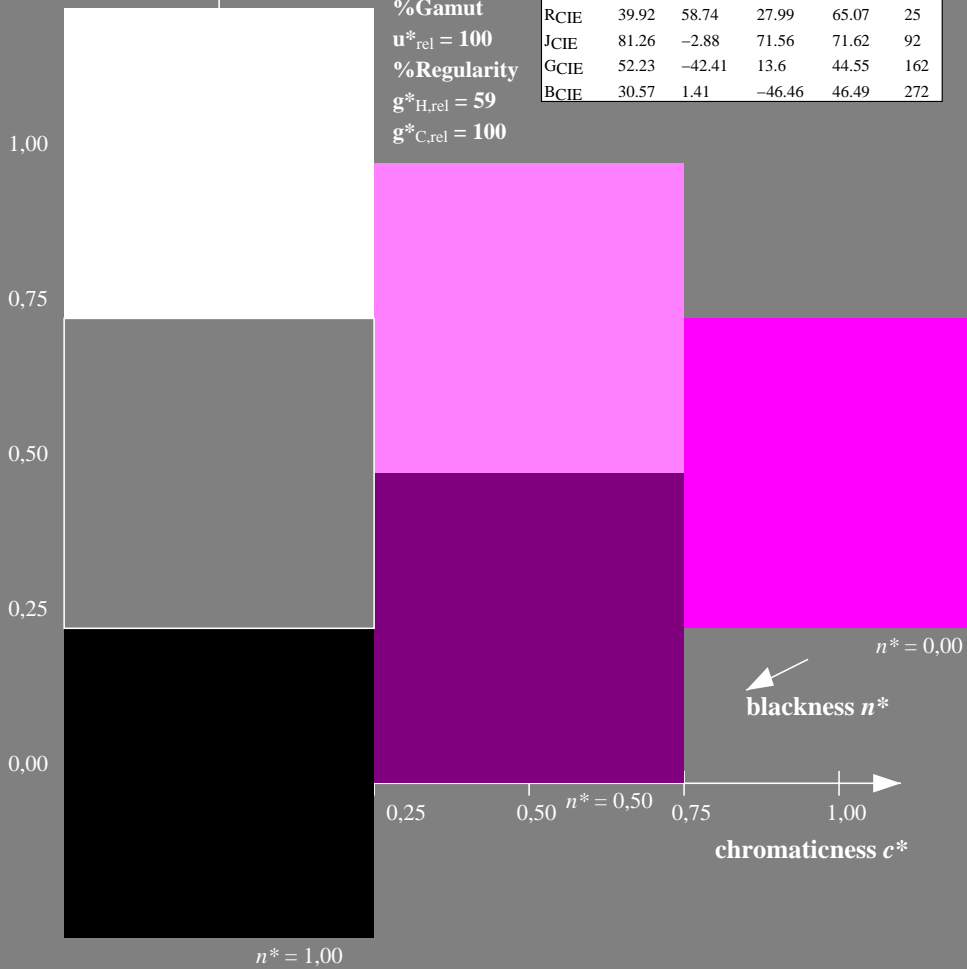


**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

% Gamut  
 $u^*_{rel} = 100$   
 % Regularity  
 $g^*_{H,rel} = 59$   
 $g^*_{C,rel} = 100$

% Gamut  
 $u^*_{rel} = 93$   
 % Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$



VE480-7, 3 step scales for constant CIELAB hue 325/360 = 0.903 (left)

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

BAM-test chart VE48; Colorimetric systems CNS18 & ORS18 input: olv\* setrgbcolor  
 D65: 3 and 5 step colour scales for 10 hues output: no change compared to input

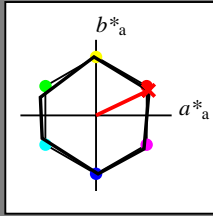
See for similar files: <http://www.ps.bam.de/VE48/>  
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

BAM registration: 20060101-VE48/10L/L48E05NP.PS/.PDF BAM material: code=rhadata  
 application for evaluation and measurement of printer or monitor systems  
 /VE48/ Form: 6/10, Serie: 1/1, Page: 6 Page count: 1

**Input: Colorimetric Natural Reflective System CNS18**

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

D65: hue R  
 LCH\*Ma: 57 77 25  
 olv\*Ma: 1.0 0.01 0.0  
 triangle lightness  $t^*$



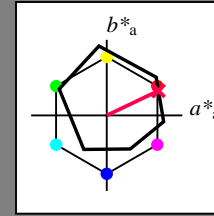
**CNS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

**Output: Colorimetric Offset Reflective System ORS18**

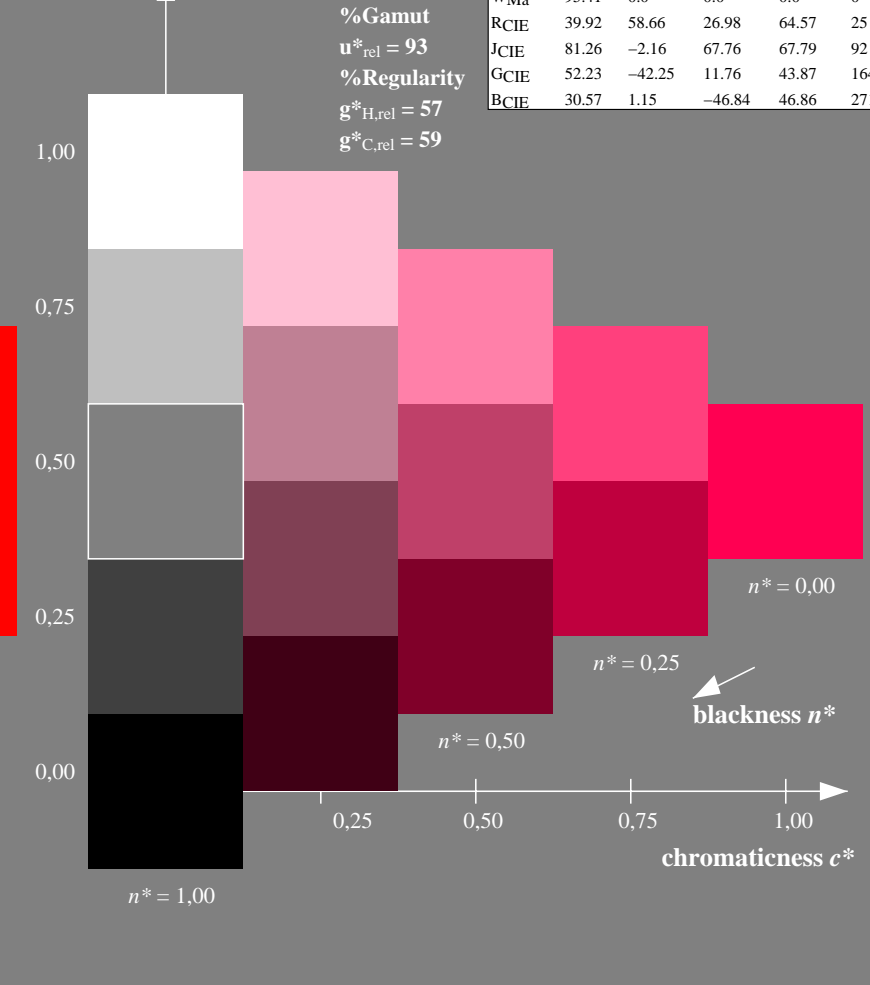
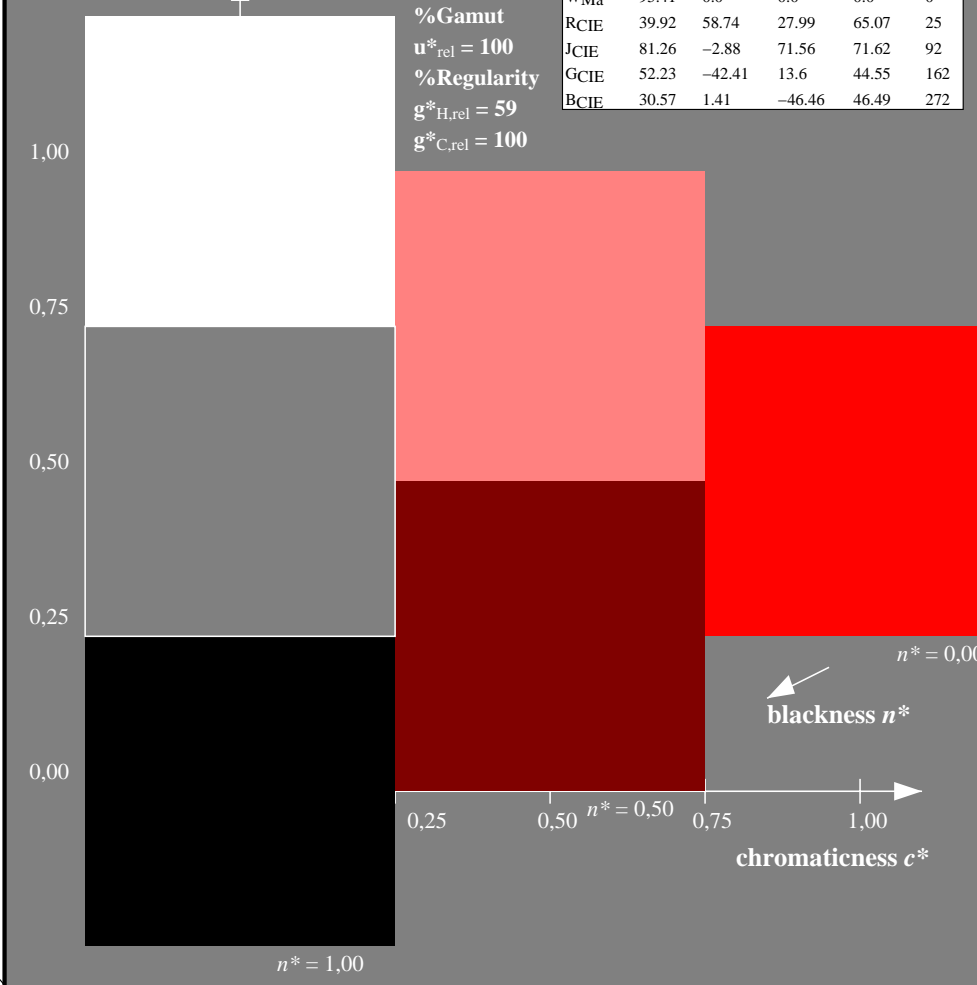
for hue  $h^* = lab^*h = 25/360 = 0.071$   
 $lab^*tch$  and  $lab^*nch$

D65: hue R  
 LCH\*Ma: 48 76 25  
 olv\*Ma: 1.0 0.0 0.3  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271



VE480-7, 3 step scales for constant CIELAB hue 25/360 = 0.071 (left)

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

BAM-test chart VE48; Colorimetric systems CNS18 & ORS18 input: olv\* setrgbcolor  
 D65: 3 and 5 step colour scales for 10 hues output: no change compared to input

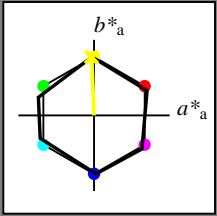
BAM registration: 20060101-VE48/10L/L48E06NP.PS/.PDF BAM material: code=rhadata  
 application for evaluation and measurement of printer or monitor systems  
 /VE48/ Form: 7/10, Serie: 1/1, Page: 7 Page count: 1

See for similar files: <http://www.ps.bam.de/VE48/>  
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

**Input: Colorimetric Natural Reflective System CNS18**

for hue  $h^* = lab^*h = 92/360 = 0.256$   
 $lab^*tch$  and  $lab^*nch$

D65: hue J  
 LCH\*Ma: 57 77 92  
 olv\*Ma: 0.99 1.0 0.0  
 triangle lightness  $t^*$



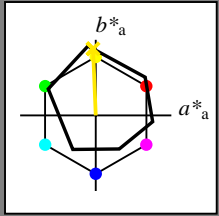
**CNS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

**Output: Colorimetric Offset Reflective System ORS18**

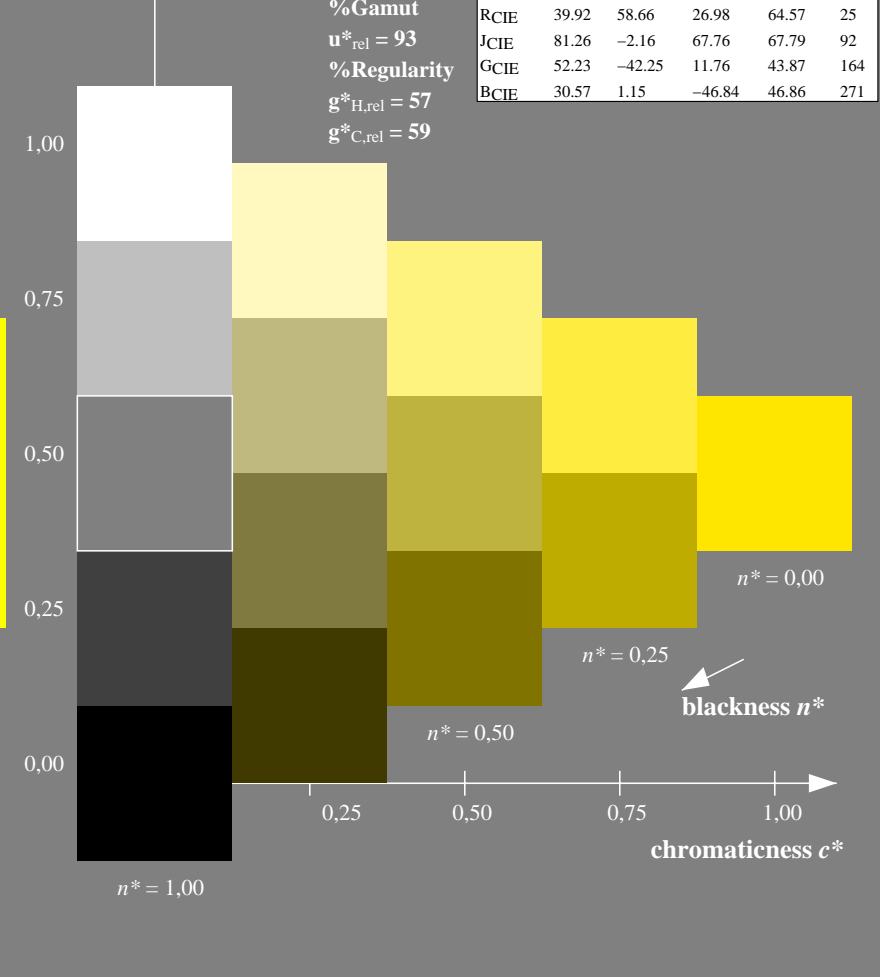
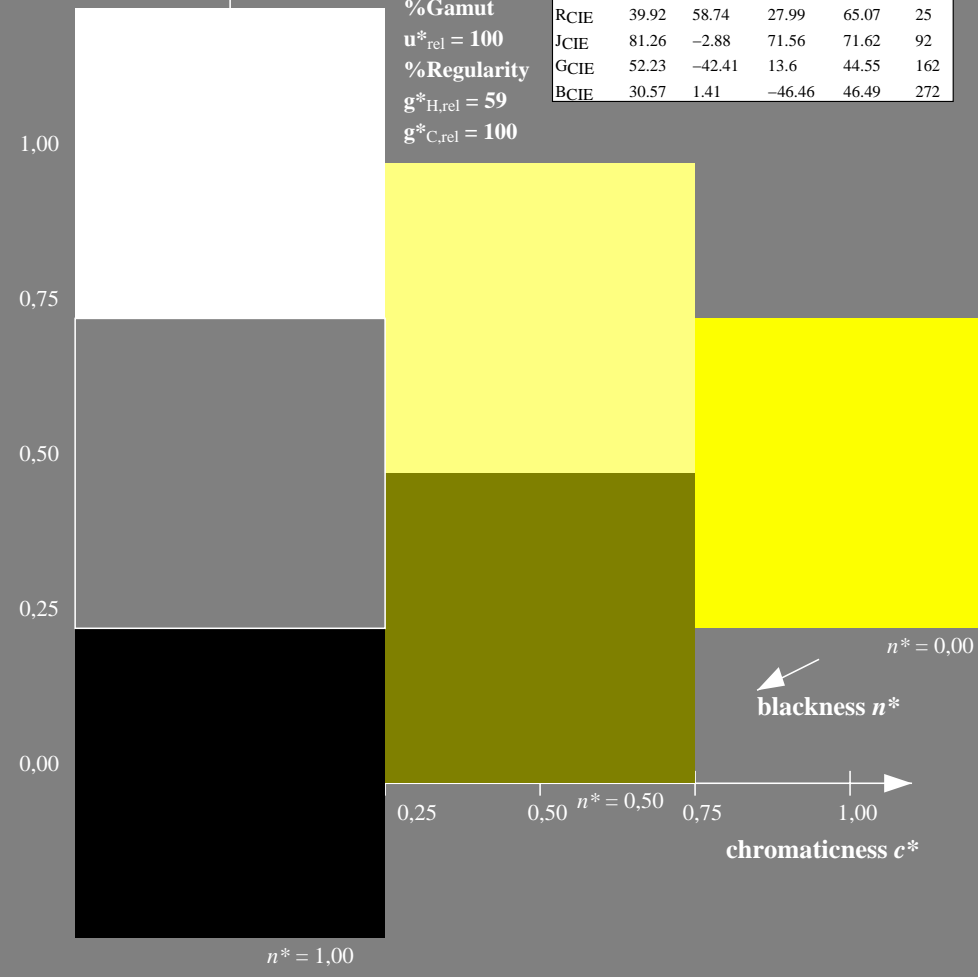
for hue  $h^* = lab^*h = 92/360 = 0.256$   
 $lab^*tch$  and  $lab^*nch$

D65: hue J  
 LCH\*Ma: 87 88 92  
 olv\*Ma: 1.0 0.91 0.0  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	92
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271



VE480-7, 3 step scales for constant CIELAB hue 92/360 = 0.256 (left)

5 step scales for constant CIELAB hue 92/360 = 0.256 (right)

BAM-test chart VE48; Colorimetric systems CNS18 & ORS18  
 D65: 3 and 5 step colour scales for 10 hues

input: olv\* setrgbcolor  
 output: no change compared to input

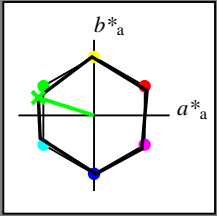
See for similar files: <http://www.ps.bam.de/VE48/>  
 Technical information: <http://www.ps.bam.de>  
 Version 2.1, io=1,1



**Input: Colorimetric Natural Reflective System CNS18**

for hue  $h^* = lab^*h = 162/360 = 0.451$   
 $lab^*tch$  and  $lab^*nch$

D65: hue G  
 LCH\*Ma: 57 77 162  
 olv\*Ma: 0.0 1.0 0.01  
 triangle lightness  $t^*$



**CNS18; adapted (a) CIELAB data**

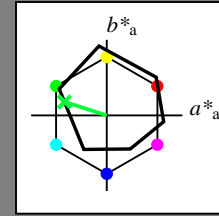
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

% Gamut  
 $u^*_{rel} = 100$   
 % Regularity  
 $g^*_{H,rel} = 59$   
 $g^*_{C,rel} = 100$

**Output: Colorimetric Offset Reflective System ORS18**

for hue  $h^* = lab^*h = 162/360 = 0.451$   
 $lab^*tch$  and  $lab^*nch$

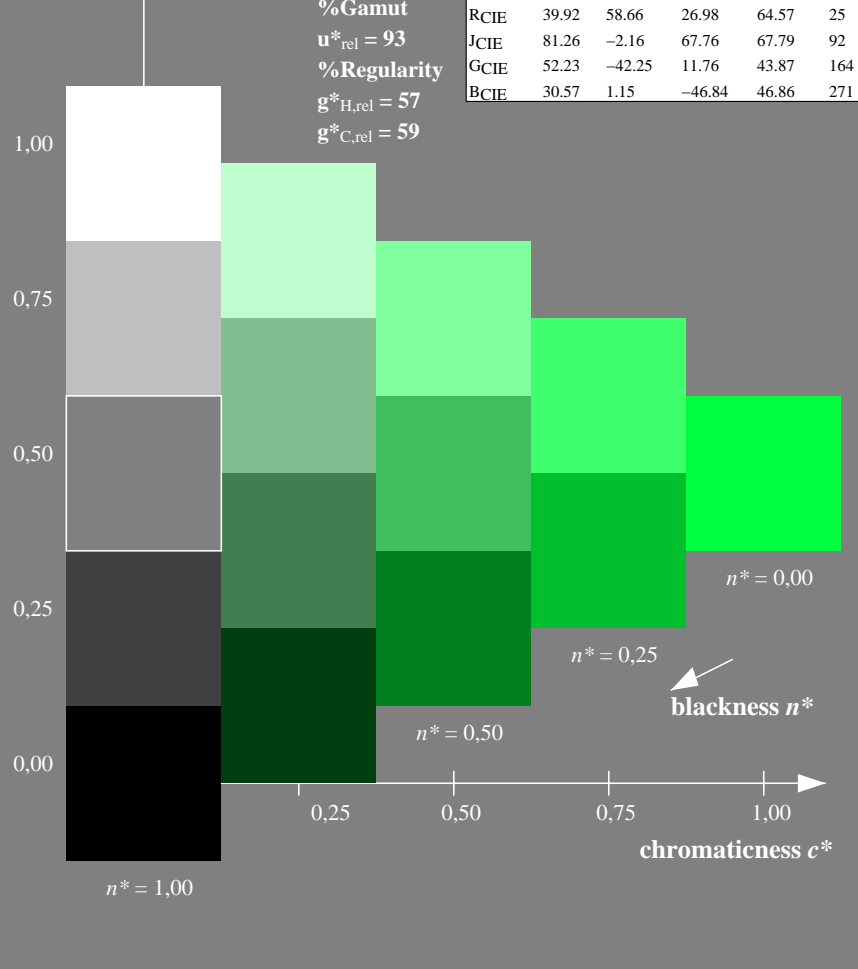
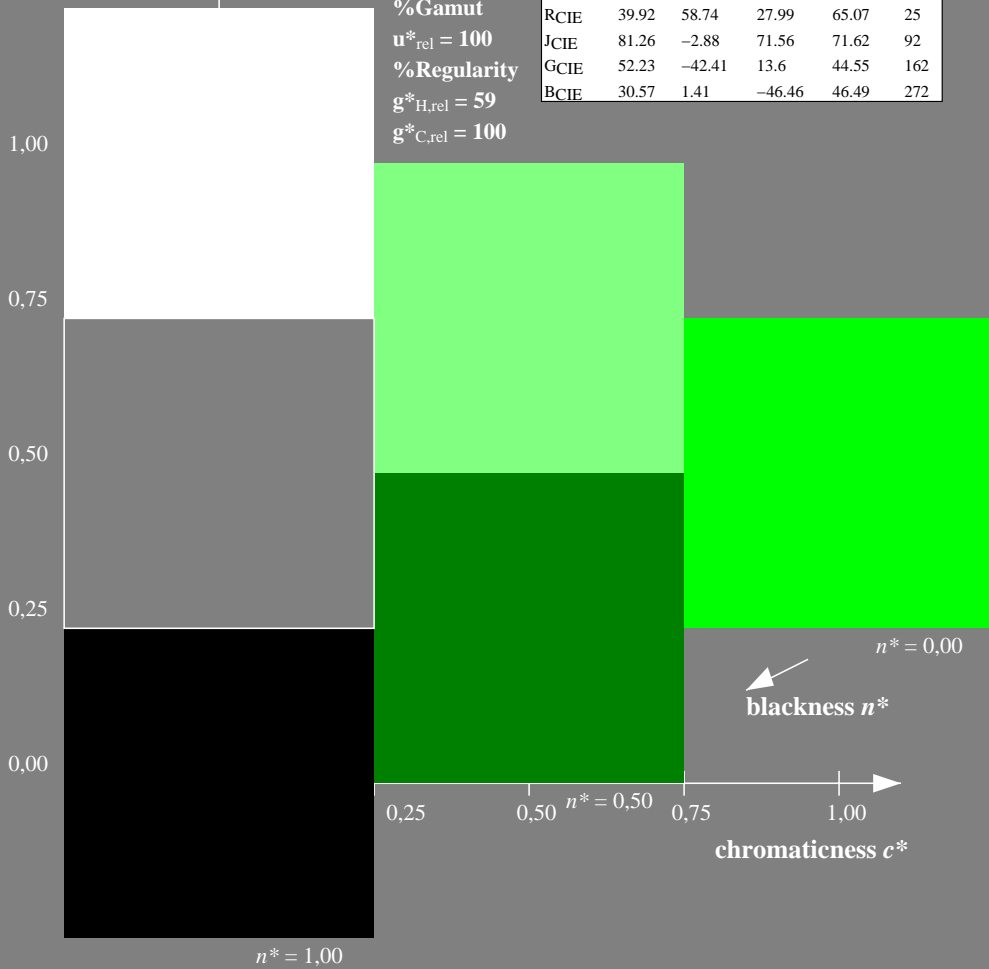
D65: hue G  
 LCH\*Ma: 53 59 162  
 olv\*Ma: 0.0 1.0 0.21  
 triangle lightness  $t^*$



**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

% Gamut  
 $u^*_{rel} = 93$   
 % Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$



VE480-7, 3 step scales for constant CIELAB hue 162/360 = 0.451 (left)

5 step scales for constant CIELAB hue 162/360 = 0.451 (right)

BAM-test chart VE48; Colorimetric systems CNS18 & ORS18  
 D65: 3 and 5 step colour scales for 10 hues

input: olv\* setrgbcolor  
 output: no change compared to input

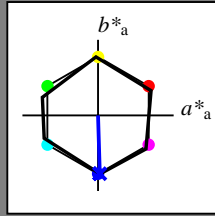
See for similar files: <http://www.ps.bam.de/VE48/>  
 Technical information: <http://www.ps.bam.de>  
 Version 2.1, io=1,1

BAM registration: 20060101-VE48/10L/L48E08NP.PS/.PDF  
 application for evaluation and measurement of printer or monitor systems  
 BAM material: code=rh4ta  
 /VE48/ Form: 9/10, Serie: 1/1, Page: 9 Page count: 1

**Input: Colorimetric Natural Reflective System CNS18**

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

D65: hue B  
 LCH\*Ma: 57 77 272  
 olv\*Ma: 0.0 0.0 1.0  
 triangle lightness  $t^*$



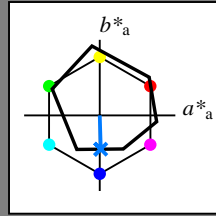
**CNS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	56.7	70.15	32.71	77.4	25
JMa	56.7	-2.69	77.35	77.4	92
GMa	56.7	-73.6	23.92	77.4	162
G50BMa	56.7	-71.24	-30.23	77.4	203
BMa	56.7	2.7	-77.34	77.4	272
B50RMa	56.7	63.4	-44.38	77.4	325
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.74	27.99	65.07	25
JCIE	81.26	-2.88	71.56	71.62	92
GCIE	52.23	-42.41	13.6	44.55	162
BCIE	30.57	1.41	-46.46	46.49	272

**Output: Colorimetric Offset Reflective System ORS18**

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

D65: hue B  
 LCH\*Ma: 42 45 272  
 olv\*Ma: 0.0 0.48 1.0  
 triangle lightness  $t^*$

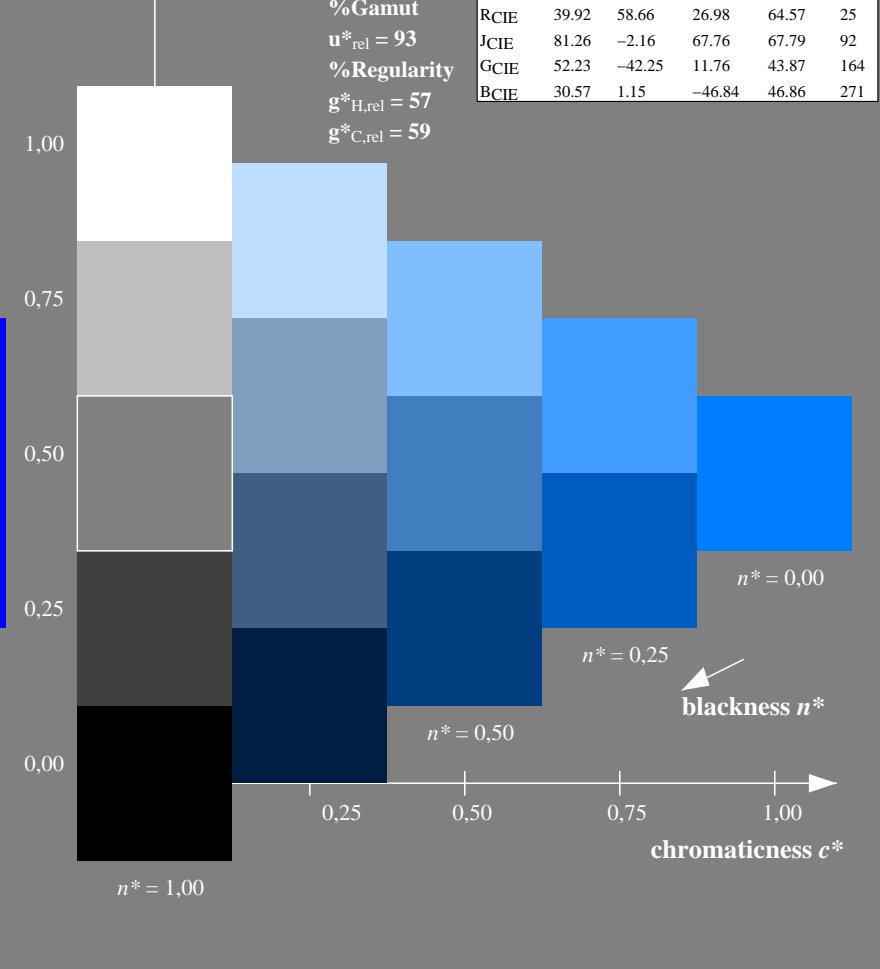
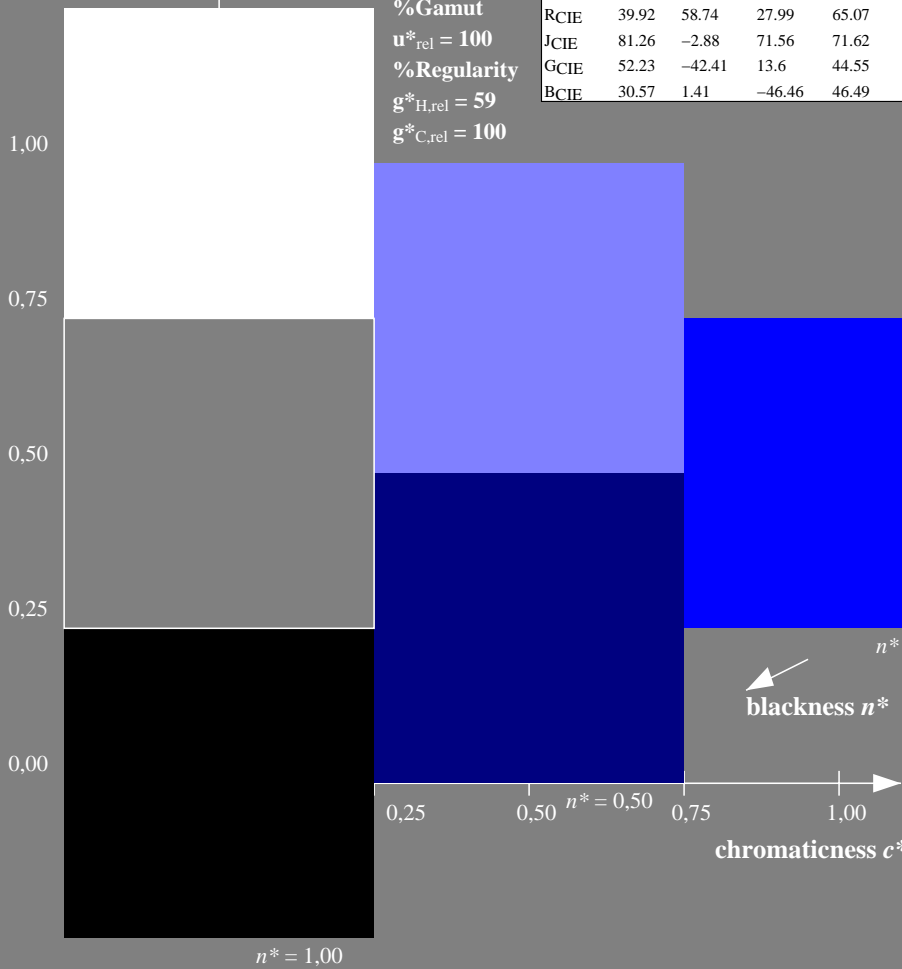


**ORS18; adapted (a) CIELAB data**

	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
OMa	47.94	65.39	50.52	82.63	38
YMa	90.37	-10.26	91.75	92.32	96
LMa	50.9	-62.83	34.96	71.91	151
CMa	58.62	-30.34	-45.01	54.3	236
VMa	25.72	31.1	-44.4	54.22	305
MMa	48.13	75.28	-8.36	75.74	354
NMa	18.01	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
RCIE	39.92	58.66	26.98	64.57	25
JCIE	81.26	-2.16	67.76	67.79	92
GCIE	52.23	-42.25	11.76	43.87	164
BCIE	30.57	1.15	-46.84	46.86	271

%Gamut  
 $u^*_{rel} = 100$   
 %Regularity  
 $g^*_{H,rel} = 59$   
 $g^*_{C,rel} = 100$

%Gamut  
 $u^*_{rel} = 93$   
 %Regularity  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$



VE480-7, 3 step scales for constant CIELAB hue 272/360 = 0.755 (left)

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

BAM-test chart VE48; Colorimetric systems CNS18 & ORS18 input: olv\* setrgbcolor  
 D65: 3 and 5 step colour scales for 10 hues output: no change compared to input

BAM registration: 20060101-VE48/10L/L48E09NP.PS/.PDF BAM material: code=rhadata  
 application for evaluation and measurement of printer or monitor systems  
 /VE48/ Form: 10/10Scene: 1/1, Page: 10 Page count: 1

See for similar files: <http://www.ps.bam.de/VE48/>  
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1