



Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 38/360 = 0.105$

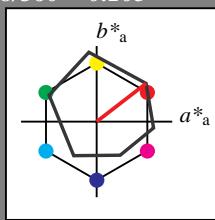
lab^*tch and lab^*nch

D65: hue O

LCH*Ma: 48 83 38

rgb*Ma: 1.0 0.0 0.0

triangle lightness



ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C_{ab,a}^*$	$h_{ab,a}^*$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

1,00



%Gamut

$u^*_{rel} = 93$

%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

Output: Colorimetric Reflective System NRS11

for hue $h^* = lab^*h = 24/360 = 0.067$

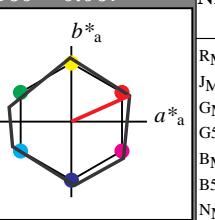
lab^*tch and lab^*nch

D65: hue R

LCH*Ma: 53 84 24

rgb*Ma: 1.0 0.0 0.0

triangle lightness



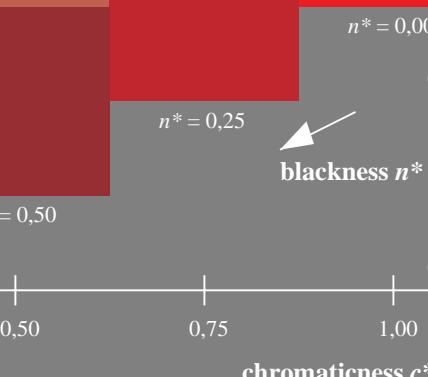
%Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$



5 step scales for constant CIELAB hue 24/360 = 0.067 (right)

input: $cmy0^*$ setcmykcolor

output: no change compared to input

See for similar files: <http://www.ps.bam.de/UE42/>

Technical information: <http://www.ps.bam.de>

Version 2.1, io=0

$n^* = 1,0$

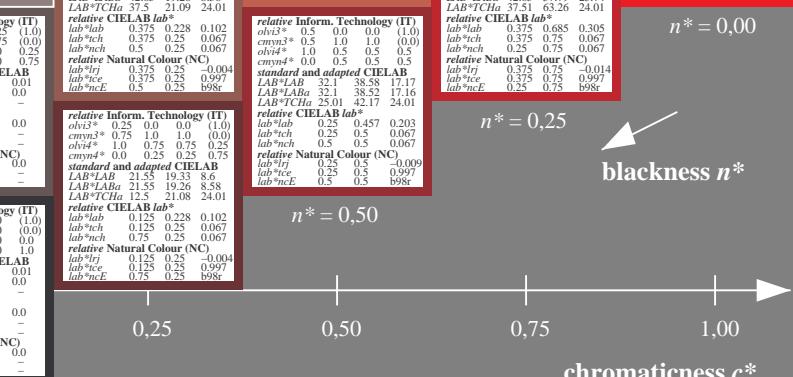
BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
D65: 5 step colour scales and coordinate data for 10 hues

$n^* = 1,0$

chromaticness c^*

$n^* = 1,0$

chromaticness c^*



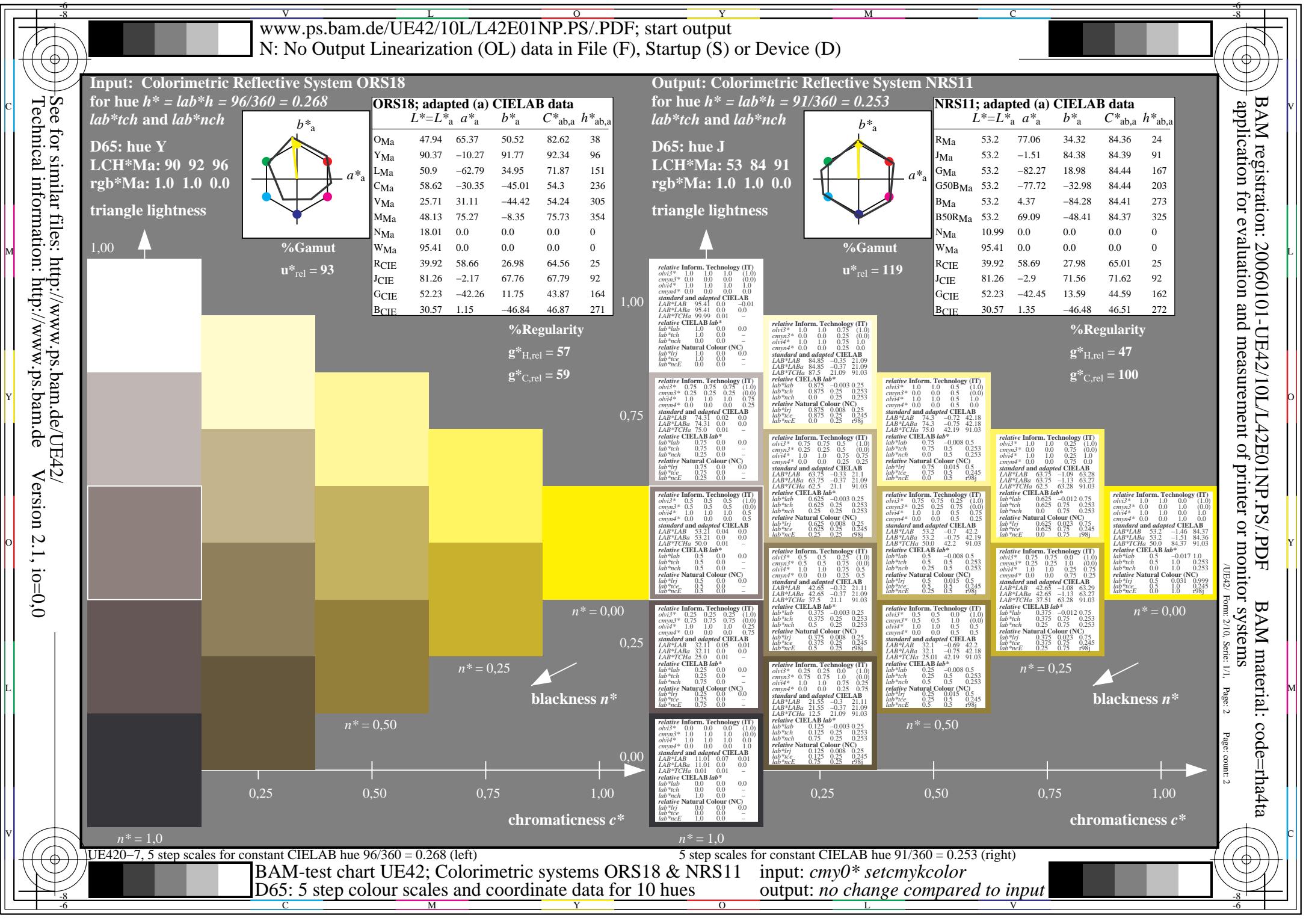
5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

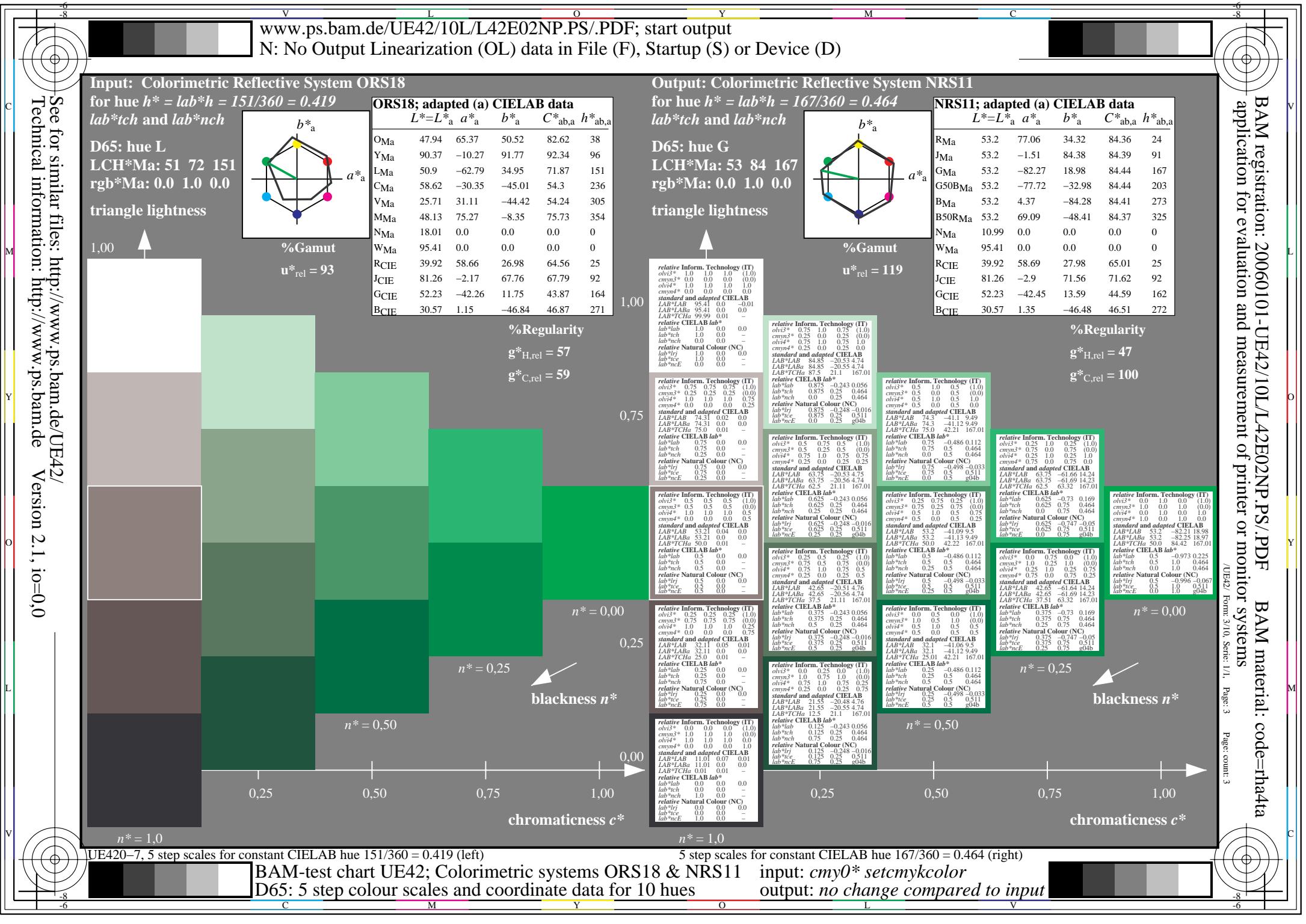
input: $cmy0^*$ setcmykcolor

output: no change compared to input

Bottom left color calibration target with grayscale and color patches.

Bottom right color calibration target with grayscale and color patches.







$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$c^* = 0,00$

$c^* = 0,25$

$c^* = 0,50$

$c^* = 0,75$

$c^* = 1,00$

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	53.2	77.06	34.32	84.36	24
JMa	53.2	-1.51	84.38	84.39	91
GMa	53.2	-82.27	18.98	84.44	167
G50BMa	53.2	-77.72	-32.98	84.44	203
BMa	53.2	4.37	-84.28	84.41	273
B50RMa	53.2	69.09	-48.41	84.37	325
NMa	10.99	0.0	0.0	0.0	0
WMa	95.41	0.0	0.0	0.0	0
R.CIE	39.92	58.66	26.98	64.56	25
J.CIE	81.26	-2.17	67.76	67.79	92
G.CIE	52.23	-42.26	11.75	43.87	164
B.CIE	30.57	1.15	-46.84	46.87	271

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.75	0.0	0.0	0.0	0.0
JMa	0.75	1.0	1.0	1.0	1.0
GMa	0.75	0.0	0.0	0.0	0.0
G50BMa	0.75	-0.27	-0.23	-0.23	-0.23
BMa	0.75	0.25	-0.593	0.25	0.37b
B50RMa	0.75	0.25	-0.593	0.25	0.37b
NMa	0.0	0.0	0.0	0.0	0.0
WMa	0.0	0.0	0.0	0.0	0.0
R.CIE	0.75	0.0	0.0	0.0	0.0
J.CIE	0.75	-0.27	-0.137	-0.137	-0.137
G.CIE	0.75	0.0	0.0	0.0	0.0
B.CIE	0.75	0.0	0.0	0.0	0.0

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.75	0.0	0.0	0.0	0.0
JMa	0.75	0.0	0.0	0.0	0.0
GMa	0.75	0.0	0.0	0.0	0.0
G50BMa	0.75	-0.27	-0.23	-0.23	-0.23
BMa	0.75	0.25	-0.593	0.25	0.37b
B50RMa	0.75	0.25	-0.593	0.25	0.37b
NMa	0.0	0.0	0.0	0.0	0.0
WMa	0.0	0.0	0.0	0.0	0.0
R.CIE	0.75	0.0	0.0	0.0	0.0
J.CIE	0.75	-0.27	-0.137	-0.137	-0.137
G.CIE	0.75	0.0	0.0	0.0	0.0
B.CIE	0.75	0.0	0.0	0.0	0.0

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.75	0.0	0.0	0.0	0.0
JMa	0.75	0.0	0.0	0.0	0.0
GMa	0.75	0.0	0.0	0.0	0.0
G50BMa	0.75	-0.27	-0.23	-0.23	-0.23
BMa	0.75	0.25	-0.593	0.25	0.37b
B50RMa	0.75	0.25	-0.593	0.25	0.37b
NMa	0.0	0.0	0.0	0.0	0.0
WMa	0.0	0.0	0.0	0.0	0.0
R.CIE	0.75	0.0	0.0	0.0	0.0
J.CIE	0.75	-0.27	-0.137	-0.137	-0.137
G.CIE	0.75	0.0	0.0	0.0	0.0
B.CIE	0.75	0.0	0.0	0.0	0.0

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.75	0.0	0.0	0.0	0.0
JMa	0.75	0.0	0.0	0.0	0.0
GMa	0.75	0.0	0.0	0.0	0.0
G50BMa	0.75	-0.27	-0.23	-0.23	-0.23
BMa	0.75	0.25	-0.593	0.25	0.37b
B50RMa	0.75	0.25	-0.593	0.25	0.37b
NMa	0.0	0.0	0.0	0.0	0.0
WMa	0.0	0.0	0.0	0.0	0.0
R.CIE	0.75	0.0	0.0	0.0	0.0
J.CIE	0.75	-0.27	-0.137	-0.137	-0.137
G.CIE	0.75	0.0	0.0	0.0	0.0
B.CIE	0.75	0.0	0.0	0.0	0.0

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.75	0.0	0.0	0.0	0.0
JMa	0.75	0.0	0.0	0.0	0.0
GMa	0.75	0.0	0.0	0.0	0.0
G50BMa	0.75	-0.27	-0.23	-0.23	-0.23
BMa	0.75	0.25	-0.593	0.25	0.37b
B50RMa	0.75	0.25	-0.593	0.25	0.37b
NMa	0.0	0.0	0.0	0.0	0.0
WMa	0.0	0.0	0.0	0.0	0.0
R.CIE	0.75	0.0	0.0	0.0	0.0
J.CIE	0.75	-0.27	-0.137	-0.137	-0.137
G.CIE	0.75	0.0	0.0	0.0	0.0
B.CIE	0.75	0.0	0.0	0.0	0.0

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.75	0.0	0.0	0.0	0.0
JMa	0.75	0.0	0.0	0.0	0.0
GMa	0.75	0.0	0.0	0.0	0.0
G50BMa	0.75	-0.27	-0.23	-0.23	-0.23
BMa	0.75	0.25	-0.593	0.25	0.37b
B50RMa	0.75	0.25	-0.593	0.25	0.37b
NMa	0.0	0.0	0.0	0.0	0.0
WMa	0.0	0.0	0.0	0.0	0.0
R.CIE	0.75	0.0	0.0	0.0	0.0
J.CIE	0.75	-0.27	-0.137	-0.137	-0.137
G.CIE	0.75	0.0	0.0	0.0	0.0
B.CIE	0.75	0.0	0.0	0.0	0.0

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
RMa	0.75	0.0	0.0	0.0	0.0
JMa	0.75	0.0	0.0	0.0	0.0
GMa	0.75	0.0	0.0	0.0	0.0
G50BMa	0.75	-0.27	-0.23	-0.23	-0.23
BMa	0.75	0.25	-0.593	0.25	0.37b
B50RMa	0.75	0.25	-0.593	0.25	0.37b
NMa	0.0	0.0	0.0	0.0	0.0
WMa	0.0	0.0	0.0	0.0	0.0
R.CIE	0.75	0.0	0.0	0.0	0.0
J.CIE	0.75	-0.27	-0.137	-0.137	-0.137
G.CIE	0.75	0.0	0.0	0.0	0.0
B.CIE	0.75	0.0	0.0	0.0	0.0

Input: $cmy0^*$ setcmykcolor
Output: no change compared to input

Output: Colorimetric Reflective System NRS11

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

lab^*tch and lab^*nch

D65: hue G50B

LCH*Ma: 53 84 203

rgb*Ma: 0.0 1.0 1.0

triangle lightness

%Gamut

$u^*_{rel} = 119$

%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

relative Inform. Technology (IT)

$olv3^*$ 1.0 1.0 1.0 (1.0)

$cmy3^*$ 0.5 0.5 0.5 (0.0)

$olv4^*$ 1.0 1.0 1.0

$cmy4^*$ 0.0 0.0 0.0

standard and adapted CIELAB

LAB^*LAB 53.2 0.0 0.0

LAB^*TCh 53.2 0.0 0.0

LAB^*CIE 53.2 0.0 0.0

LAB^*Irr 0.75 0.0 0.0

lab^*lab 0.75 0.0 0.0

lab^*tch 0.75 0.0 0.0

lab^*nch 0.75 0.0 0.0

lab^*irr 0.75 0.0 0.0

lab^*cie 0.75 0.0 0.0

lab^*ne 0.75 0.0 0.0

relative Inform. Technology (IT)

$olv3^*$ 0.5 0.5 0.5 (0.0)

$cmy3^*$ 0.5 0.5 0.5 (0.0)

$olv4^*$ 1.0 1.0 1.0

$cmy4^*$ 0.0 0.0 0.0

standard and adapted CIELAB

LAB^*LAB 53.2 0.0 0.0

LAB^*TCh 53.2 0.0 0.0

LAB^*CIE 53.2 0.0 0.0

LAB^*Irr 0.75 0.0 0.0

lab^*lab 0.75 0.0 0.0

lab^*tch 0.75 0.0 0.0

lab^*nch 0.75 0.0 0.0

lab^*irr 0.75 0.0 0.0

lab^*cie 0.75 0.0 0.0

lab^*ne 0.75 0.0 0.0

relative Inform. Technology (IT)

$olv3^*$ 0.5 0.5 0.5 (0.0)

$cmy3^*$ 0.5 0.5 0.5 (0.0)



$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

$n^* = 0,75$

$n^* = 1,00$

$c^* = 0,00$

$c^* = 0,25$

$c^* = 0,50$

$c^* = 0,75$

$c^* = 1,00$

$Y = 0,00$

$Y = 0,25$

$Y = 0,50$

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$Y = 1,00$

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$L = 0,50$

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$V = 0,50$

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$V = 0,75$

$V = 1,00$

$O = 0,00$

$O = 0,25$

$O = 0,50$

$O = 0,75$

$O = 1,00$

$Y = 0,00$

$Y = 0,25$

$Y = 0,50$

$Y = 0,75$

</



Input: Colorimetric Reflective System ORS18

for hue $h^* = lab^*h = 354/360 = 0.982$

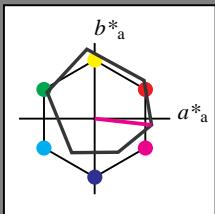
lab^*tch and lab^*nch

D65: hue M

LCH*Ma: 48 76 354

rgb*Ma: 1.0 0.0 1.0

triangle lightness

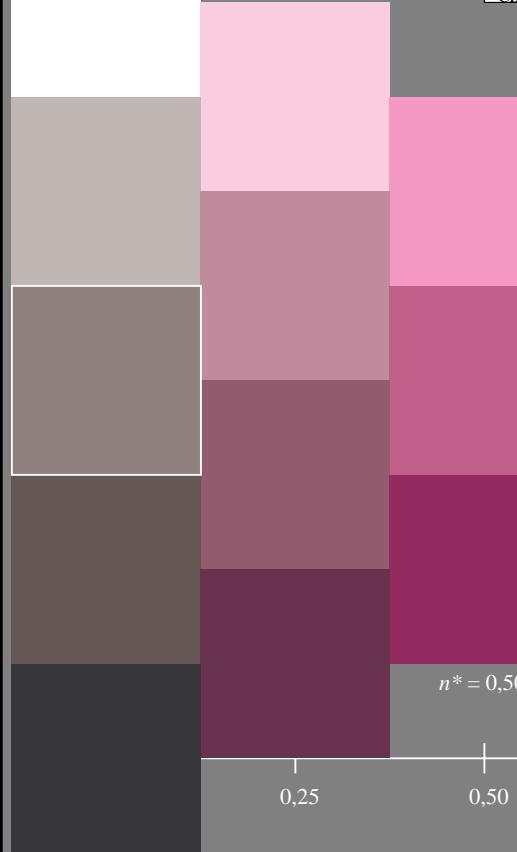


ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C_{ab,a}^*$	$h_{ab,a}^*$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271

1,00

↑
%Gamut
 $u^*_{rel} = 93$



%Regularity

$g^*_{H,rel} = 57$

$g^*_{C,rel} = 59$

$n^* = 0,00$

$n^* = 0,25$

$n^* = 0,50$

blackness n^*

$n^* = 0,00$

$n^* = 1,0$

chromaticness c^*

Output: Colorimetric Reflective System NRS11

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

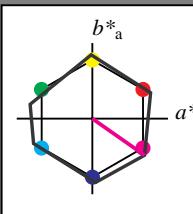
lab^*tch and lab^*nch

D65: hue B50R

LCH*Ma: 53 84 325

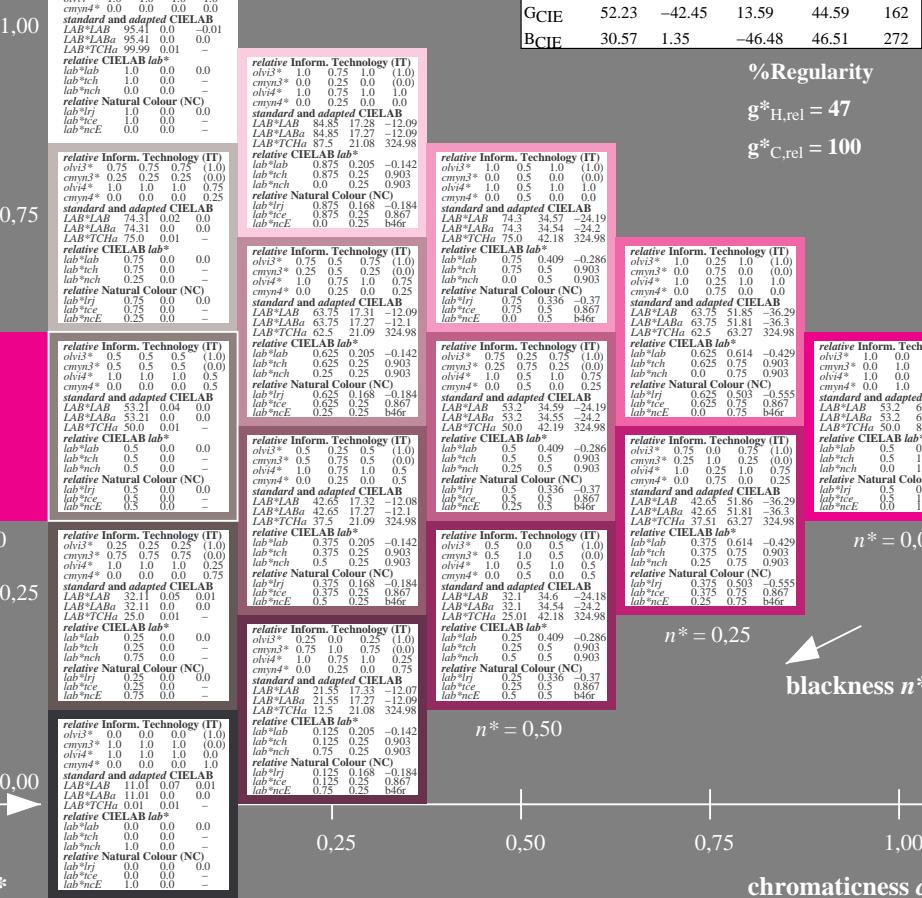
rgb*Ma: 1.0 0.0 1.0

triangle lightness



1,00

↑
%Gamut
 $u^*_{rel} = 119$



%Regularity

$g^*_{H,rel} = 47$

$g^*_{C,rel} = 100$

$n^* = 0,00$

$n^* = 0,25$

blackness n^*

$n^* = 0,00$

$n^* = 1,0$

chromaticness c^*

UE420-7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

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

BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
D65: 5 step colour scales and coordinate data for 10 hues

input: $cmy0^*$ setcmykcolor
output: no change compared to input



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Input: Colorimetric Reflective System ORS18

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

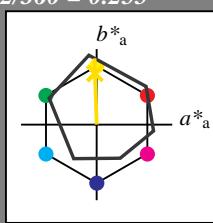
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 86 88 92

rgb*Ma: 1.0 0.9 0.0

triangle lightness



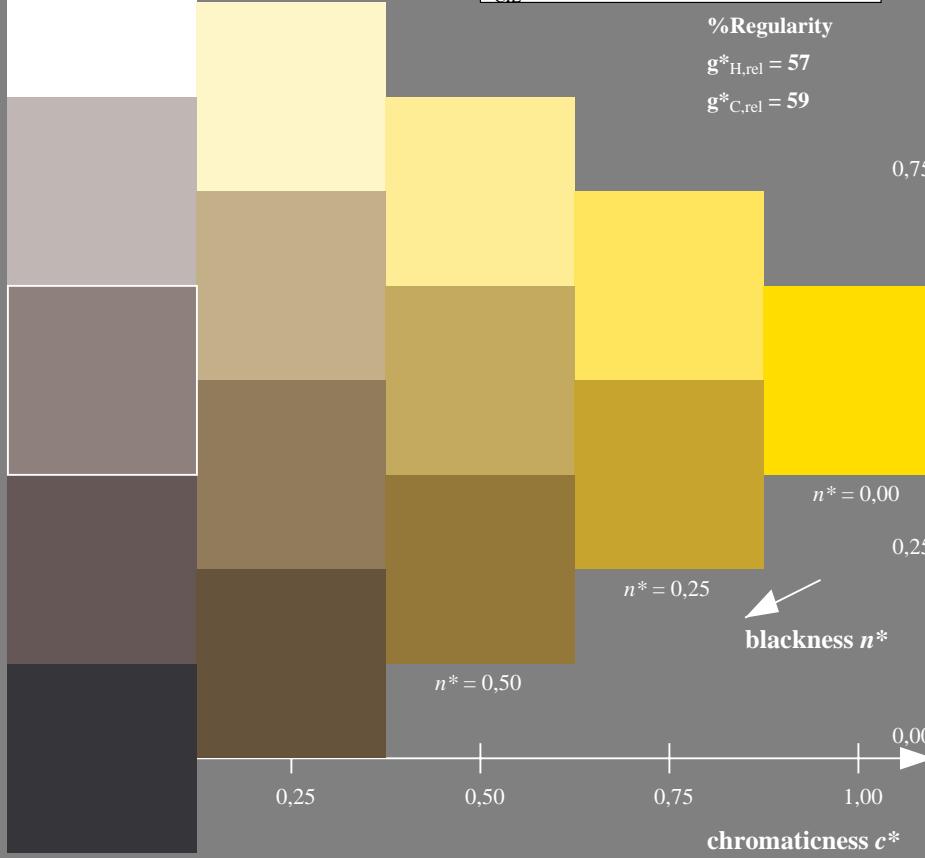
ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.37	50.52	82.62	38
Y _{Ma}	90.37	-10.27	91.77	92.34	96
L _{Ma}	50.9	-62.79	34.95	71.87	151
C _{Ma}	58.62	-30.35	-45.01	54.3	236
V _{Ma}	25.71	31.11	-44.42	54.24	305
M _{Ma}	48.13	75.27	-8.35	75.73	354
N _{Ma}	18.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.66	26.98	64.56	25
J _{CIE}	81.26	-2.17	67.76	67.79	92
G _{CIE}	52.23	-42.26	11.75	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.87	271



%Regularity

$g^*_{H,rel} = 57$
 $g^*_{C,rel} = 59$



Output: Colorimetric Reflective System NRS11

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

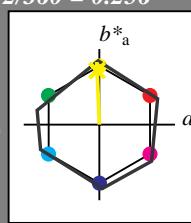
lab^*tch and lab^*nch

D65: hue J

LCH*Ma: 53 83 92

rgb*Ma: 0.98 1.0 0.0

triangle lightness

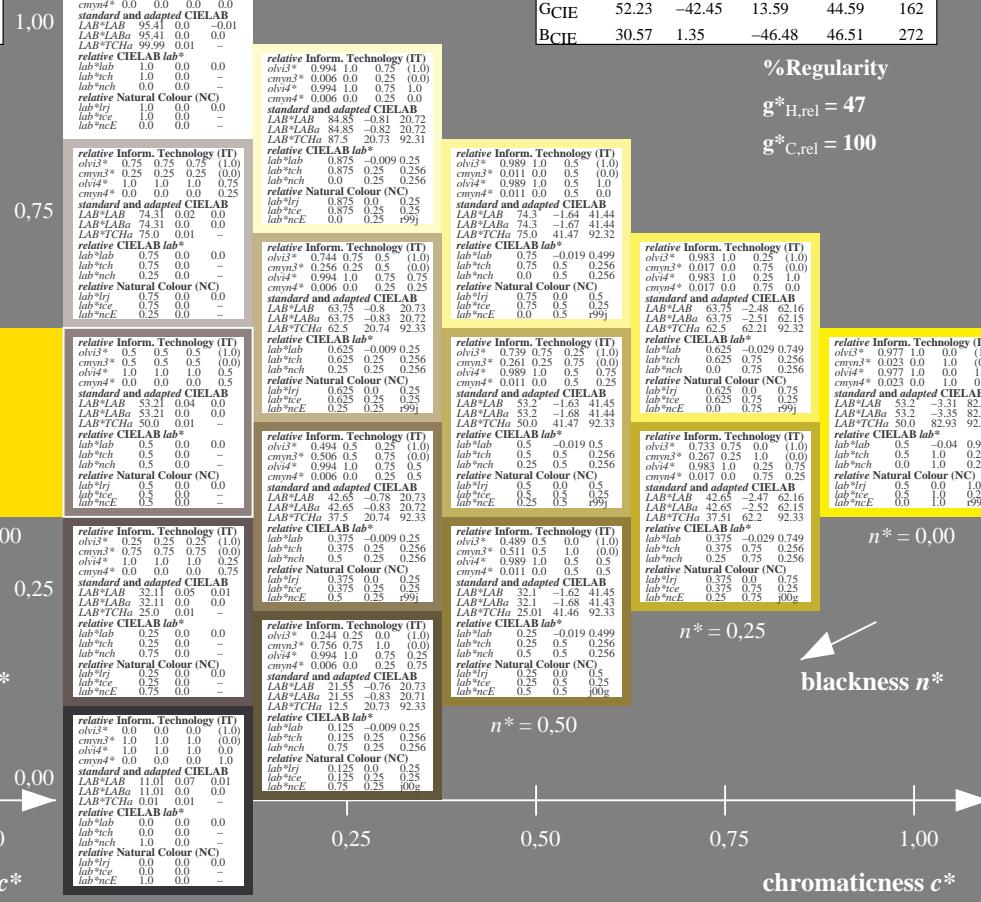


NRS11; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R _{Ma}	53.2	77.06	34.32	84.36	24
J _{Ma}	53.2	-1.51	84.38	84.39	91
G _{Ma}	53.2	-82.27	18.98	84.44	167
G50B _{Ma}	53.2	-77.72	-32.98	84.44	203
B _{Ma}	53.2	4.37	-84.28	84.41	273
B50R _{Ma}	53.2	69.09	-48.41	84.37	325
N _{Ma}	10.99	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.69	27.98	65.01	25
J _{CIE}	81.26	-2.9	71.56	71.62	92
G _{CIE}	52.23	-42.45	13.59	44.59	162
B _{CIE}	30.57	1.35	-46.48	46.51	272

%Regularity

$g^*_{H,rel} = 47$
 $g^*_{C,rel} = 100$



UE420-7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

BAM-test chart UE42; Colorimetric systems ORS18 & NRS11
D65: 5 step colour scales and coordinate data for 10 hues

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

input: $cmy0^*$ setcmykcolor
output: no change compared to input

