

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 93/360 = 0.258$

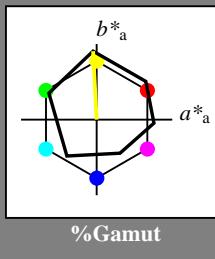
lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 91 91 93

olv*Ma: 1.0 1.0 0.0

triangle lightness



ORS18; adapted (a) CIELAB data

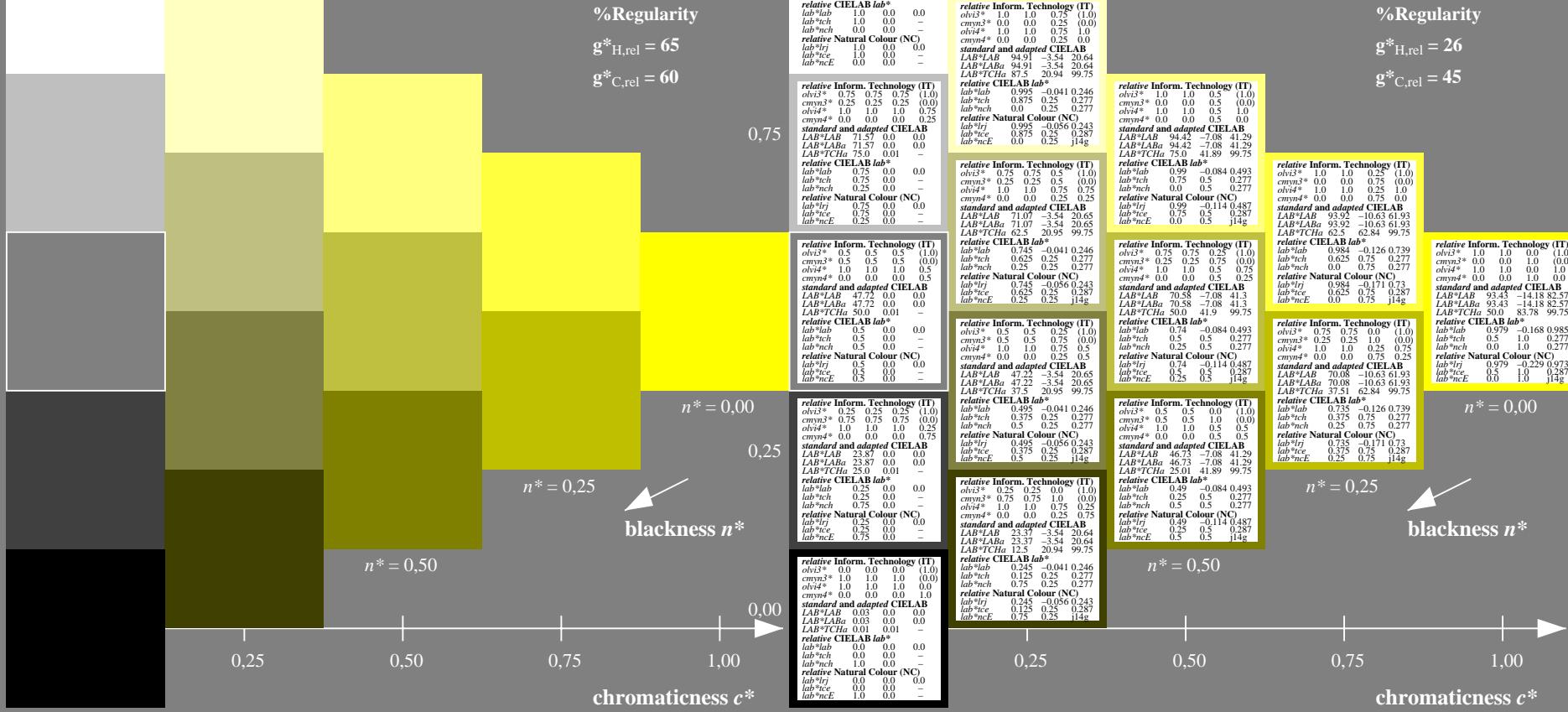
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263



%Regularity

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

$g^*_{C,rel} = 60$



PE400-7, 5 step scales for constant CIELAB hue 93/360 = 0.258 (left)

BAM-test chart PE40; Colorimetric systems ORS18 & TLS00
D50: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 100/360 = 0.277$

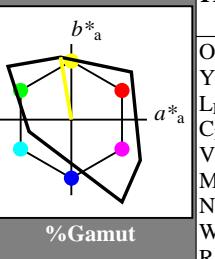
lab^*tch and lab^*nch

D50: hue Y

LCH*Ma: 93 84 100

olv*Ma: 1.0 1.0 0.0

triangle lightness



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

%Regularity

$g^*_{H,rel} = 26$

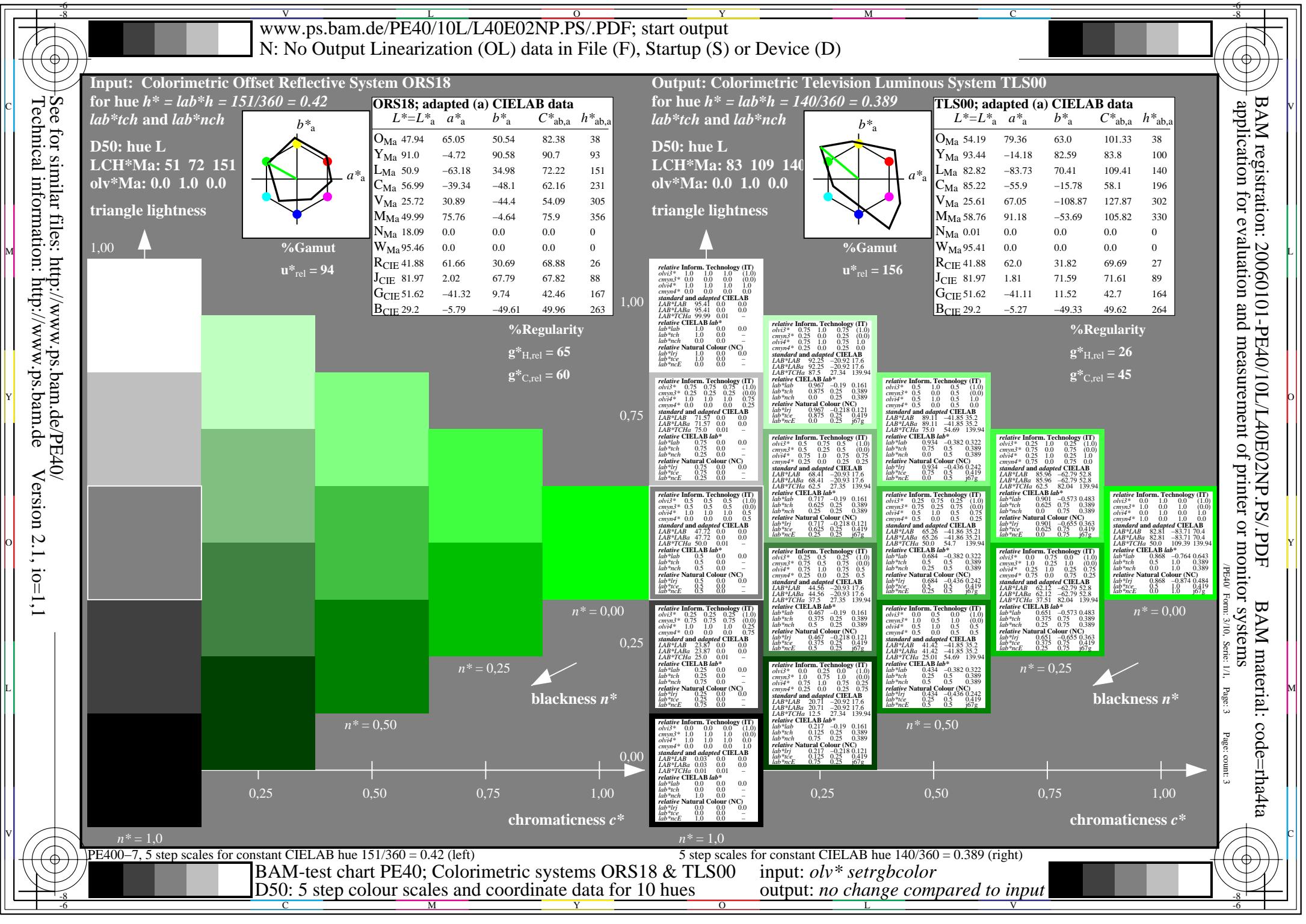
$g^*_{C,rel} = 45$

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	0.00	0.00	0.00	0.00	0.00
Y _{Ma}	0.00	0.00	0.00	0.00	0.00
L _{Ma}	0.00	0.00	0.00	0.00	0.00
C _{Ma}	0.00	0.00	0.00	0.00	0.00
V _{Ma}	0.00	0.00	0.00	0.00	0.00
M _{Ma}	0.00	0.00	0.00	0.00	0.00
N _{Ma}	0.00	0.00	0.00	0.00	0.00
W _{Ma}	0.00	0.00	0.00	0.00	0.00
R _{CIE}	0.00	0.00	0.00	0.00	0.00
J _{CIE}	0.00	0.00	0.00	0.00	0.00
G _{CIE}	0.00	0.00	0.00	0.00	0.00
B _{CIE}	0.00	0.00	0.00	0.00	0.00

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	0.00	0.00	0.00	0.00	0.00
Y _{Ma}	0.00	0.00	0.00	0.00	0.00
L _{Ma}	0.00	0.00	0.00	0.00	0.00
C _{Ma}	0.00	0.00	0.00	0.00	0.00
V _{Ma}	0.00	0.00	0.00	0.00	0.00
M _{Ma}	0.00	0.00	0.00	0.00	0.00
N _{Ma}	0.00	0.00	0.00	0.00	0.00
W _{Ma}	0.00	0.00	0.00	0.00	0.00
R _{CIE}	0.00	0.00	0.00	0.00	0.00
J _{CIE}	0.00	0.00	0.00	0.00	0.00
G _{CIE}	0.00	0.00	0.00	0.00	0.00
B _{CIE}	0.00	0.00	0.00	0.00	0.00

5 step scales for constant CIELAB hue 100/360 = 0.277 (right)

input: $olv^* setrgbcolor$
output: no change compared to input





Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 305/360 = 0.847$

lab^*tch and lab^*nch

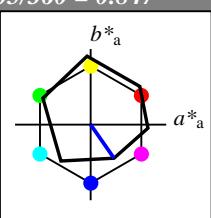
D50: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0

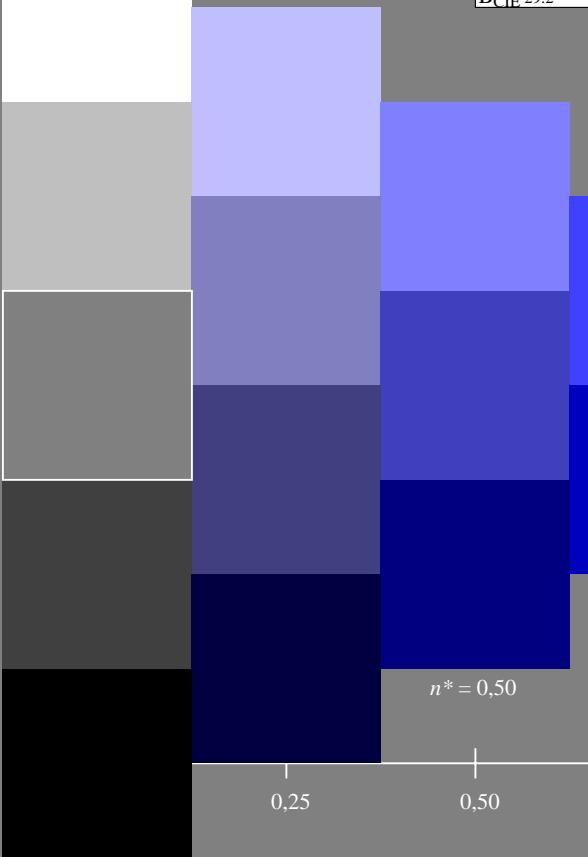
triangle lightness

1,00



%Gamut

$u^*_{rel} = 94$



%Regularity

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

$g^*_{C,rel} = 60$

0,75



$n^* = 0,00$

blackness n^*

0,00



chromaticness c^*

$n^* = 1,0$

PE400-7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

BAM-test chart PE40; Colorimetric systems ORS18 & TLS00
D50: 5 step colour scales and coordinate data for 10 hues

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 302/360 = 0.838$

lab^*tch and lab^*nch

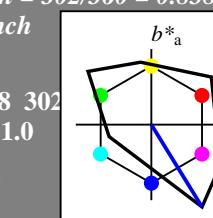
D50: hue V

LCH*Ma: 26 128 302

olv*Ma: 0.0 0.0 1.0

triangle lightness

1,00



%Gamut

$u^*_{rel} = 156$

%Regularity

$g^*_{H,rel} = 26$

$g^*_{C,rel} = 45$

0,75



$n^* = 0,00$

blackness n^*

0,00



$n^* = 1,0$

5 step scales for constant CIELAB hue 302/360 = 0.838 (right)

input: $olv^* setrgbcolor$
output: no change compared to input

BAM registration: 20060101-PE40/10L/L40E05NP.PS/.PDF

application for evaluation and measurement of printer or monitor systems

/PE40 Form: 6/10, Serie: 1/1, Page: 6

Page: count: 6



Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 356/360 = 0.99$

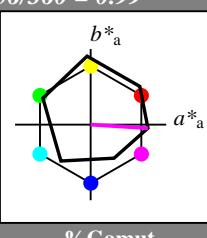
lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 50 76 356

olv*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	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263

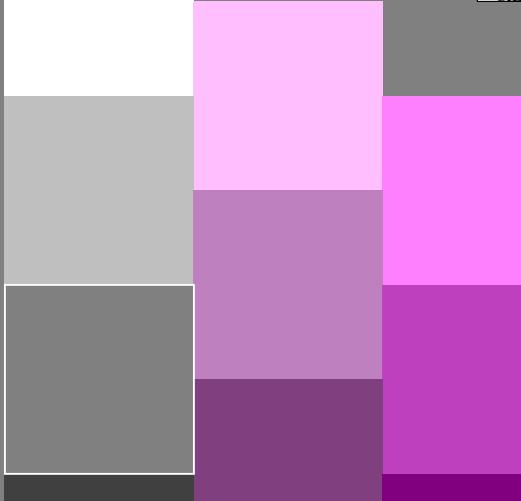
1,00

%Gamut
 $u^*_{rel} = 94$

%Regularity

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

$g^*_{C,rel} = 60$



$n^* = 0,50$

0,00
chromaticness c^*
0,25
 $n^* = 0,25$
 $n^* = 0,00$
 $n^* = -0,25$

blackness n^*

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 330/360 = 0.915$

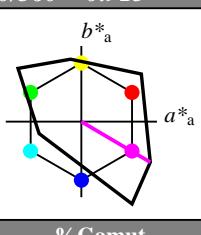
lab^*tch and lab^*nch

D50: hue M

LCH*Ma: 59 106 330

olv*Ma: 1.0 0.0 1.0

triangle lightness



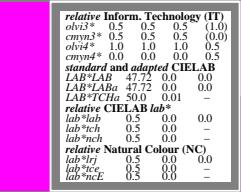
1,00

%Gamut
 $u^*_{rel} = 156$

%Regularity

$g^*_{H,rel} = 26$

$g^*_{C,rel} = 45$



5 step scales for constant CIELAB hue 356/360 = 0.99 (left)

5 step scales for constant CIELAB hue 330/360 = 0.915 (right)

PE400-7, 5 step scales for constant CIELAB hue 356/360 = 0.99 (left)

BAM-test chart PE40; Colorimetric systems ORS18 & TLS00

D50: 5 step colour scales and coordinate data for 10 hues

input: $olv^* setrgbcolor$
output: no change compared to input

c

M

M

Y

O

L

V

C

C M Y O L V

C M Y O L V

-8

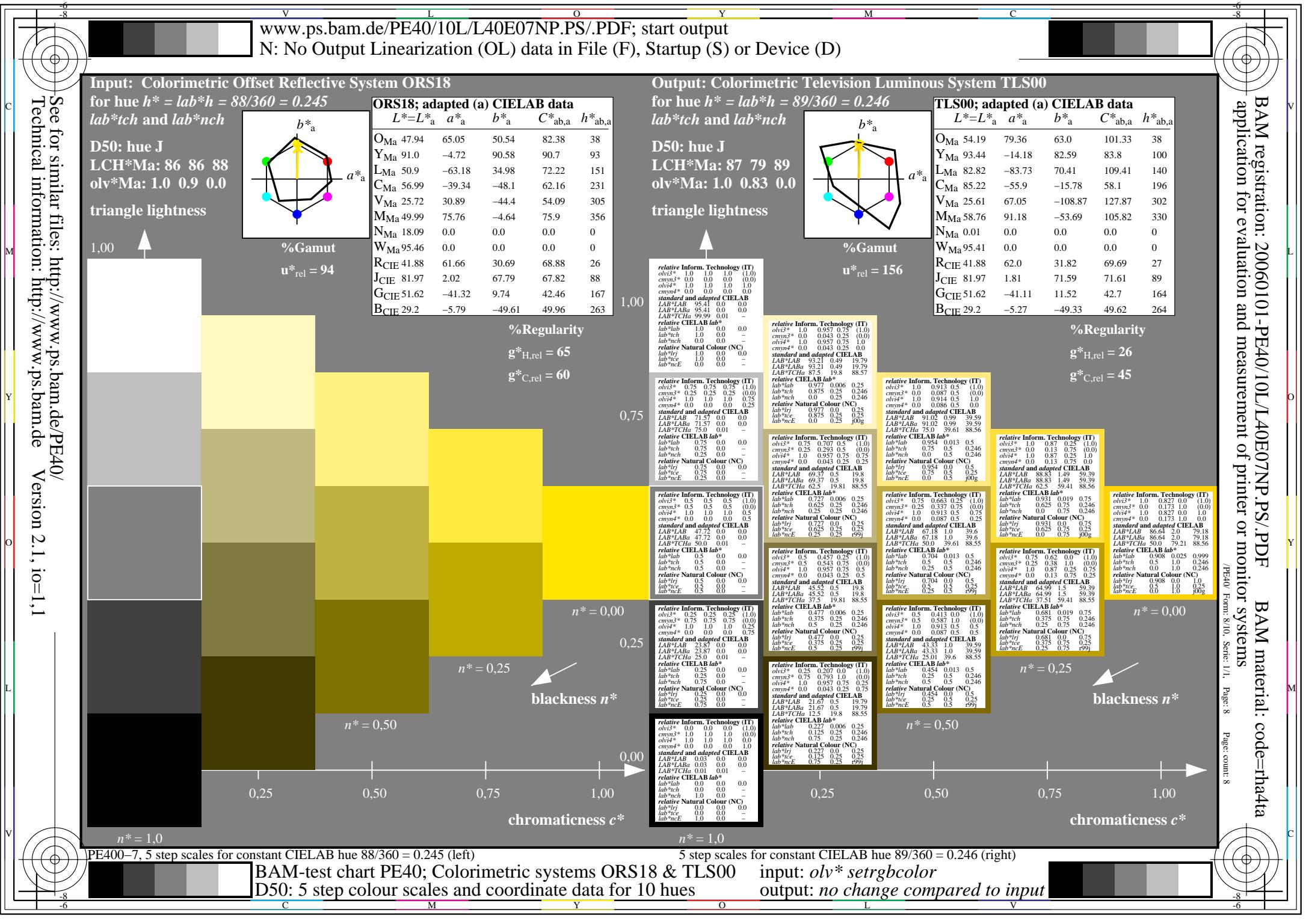
8

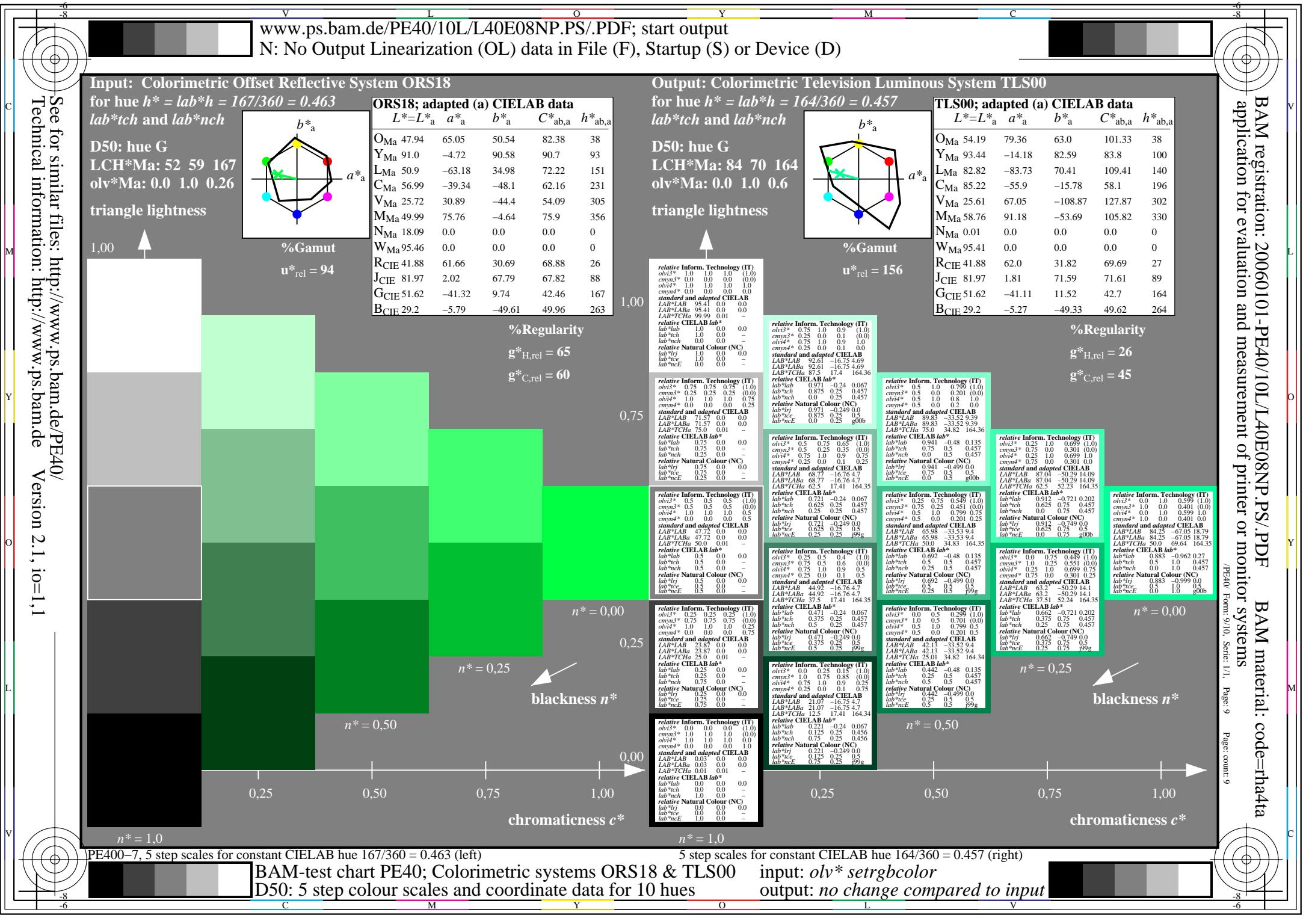
6

-8

-6

-6





Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 263/360 = 0.731$

lab^*tch and lab^*nch

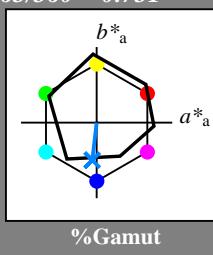
D50: hue B

LCH*Ma: 42 47 263

olv*Ma: 0.0 0.52 1.0

triangle lightness

1,00



ORS18; adapted (a) CIELAB data

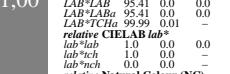
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.05	50.54	82.38	38
Y _{Ma}	91.0	-4.72	90.58	90.7	93
L _{Ma}	50.9	-63.18	34.98	72.22	151
C _{Ma}	56.99	-39.34	-48.1	62.16	231
V _{Ma}	25.72	30.89	-44.4	54.09	305
M _{Ma}	49.99	75.76	-4.64	75.9	356
N _{Ma}	18.09	0.0	0.0	0.0	0
W _{Ma}	95.46	0.0	0.0	0.0	0
R _{CIE}	41.88	61.66	30.69	68.88	26
J _{CIE}	81.97	2.02	67.79	67.82	88
G _{CIE}	51.62	-41.32	9.74	42.46	167
B _{CIE}	29.2	-5.79	-49.61	49.96	263



%Regularity

$g^*_{H,rel} = 65$
 $g^*_{C,rel} = 60$

1,00



Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 264/360 = 0.733$

lab^*tch and lab^*nch

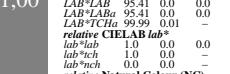
D50: hue B

LCH*Ma: 61 54 264

olv*Ma: 0.0 0.59 1.0

triangle lightness

1,00



%Regularity

$g^*_{H,rel} = 26$
 $g^*_{C,rel} = 45$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	54.19	79.36	63.0	101.33	38
Y _{Ma}	93.44	-14.18	82.59	83.8	100
L _{Ma}	82.82	-83.73	70.41	109.41	140
C _{Ma}	85.22	-55.9	-15.78	58.1	196
V _{Ma}	25.61	67.05	-108.87	127.87	302
M _{Ma}	58.76	91.18	-53.69	105.82	330
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	41.88	62.0	31.82	69.69	27
J _{CIE}	81.97	1.81	71.59	71.61	89
G _{CIE}	51.62	-41.11	11.52	42.7	164
B _{CIE}	29.2	-5.27	-49.33	49.62	264

%Regularity

$g^*_{H,rel} = 26$
 $g^*_{C,rel} = 45$

PE400-7, 5 step scales for constant CIELAB hue 263/360 = 0.731 (left)

BAM-test chart PE40; Colorimetric systems ORS18 & TLS00
D50: 5 step colour scales and coordinate data for 10 hues

5 step scales for constant CIELAB hue 264/360 = 0.733 (right)

input: $olv^* \text{ setrgbcolor}$
output: no change compared to input

See for similar files: <http://www.ps.bam.de/PE40/>

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

Version 2.1, io=1,1