

## Input: Colorimetric Offset Reflective System ORS18

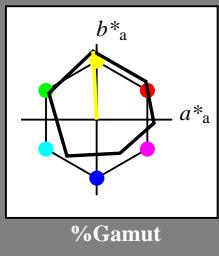
for hue  $h^* = lab^*h = 93/360 = 0.258$  $lab^*tch$  and  $lab^*nch$ 

D50: hue Y

LCH\*Ma: 91 91 93

olv\*Ma: 1.0 1.0 0.0

triangle lightness

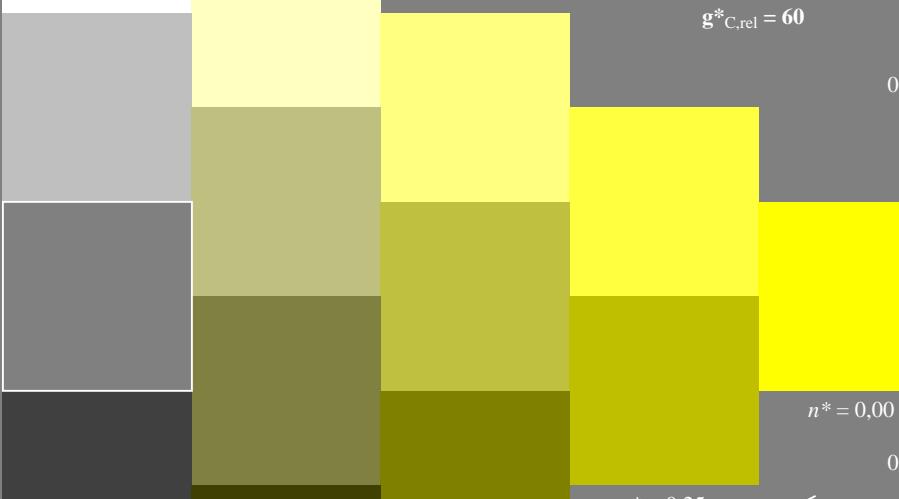


## ORS18; adapted (a) CIELAB data

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



## %Regularity

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

## Output: Colorimetric Television Luminous System TLS00

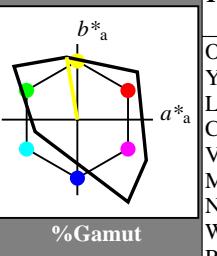
for hue  $h^* = lab^*h = 100/360 = 0.277$  $lab^*tch$  and  $lab^*nch$ 

D50: hue Y

LCH\*Ma: 93 84 100

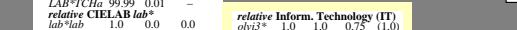
olv\*Ma: 1.0 1.0 0.0

triangle lightness

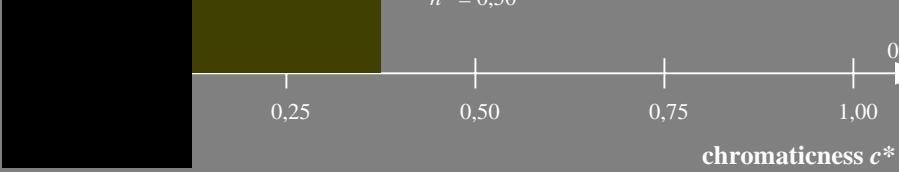
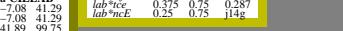
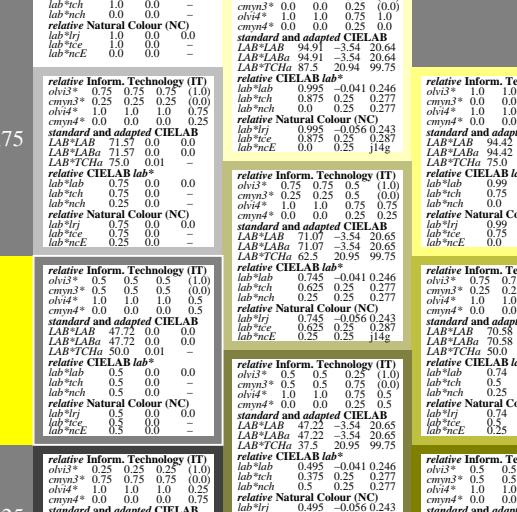


## TLS00; adapted (a) CIELAB data

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



## %Regularity

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

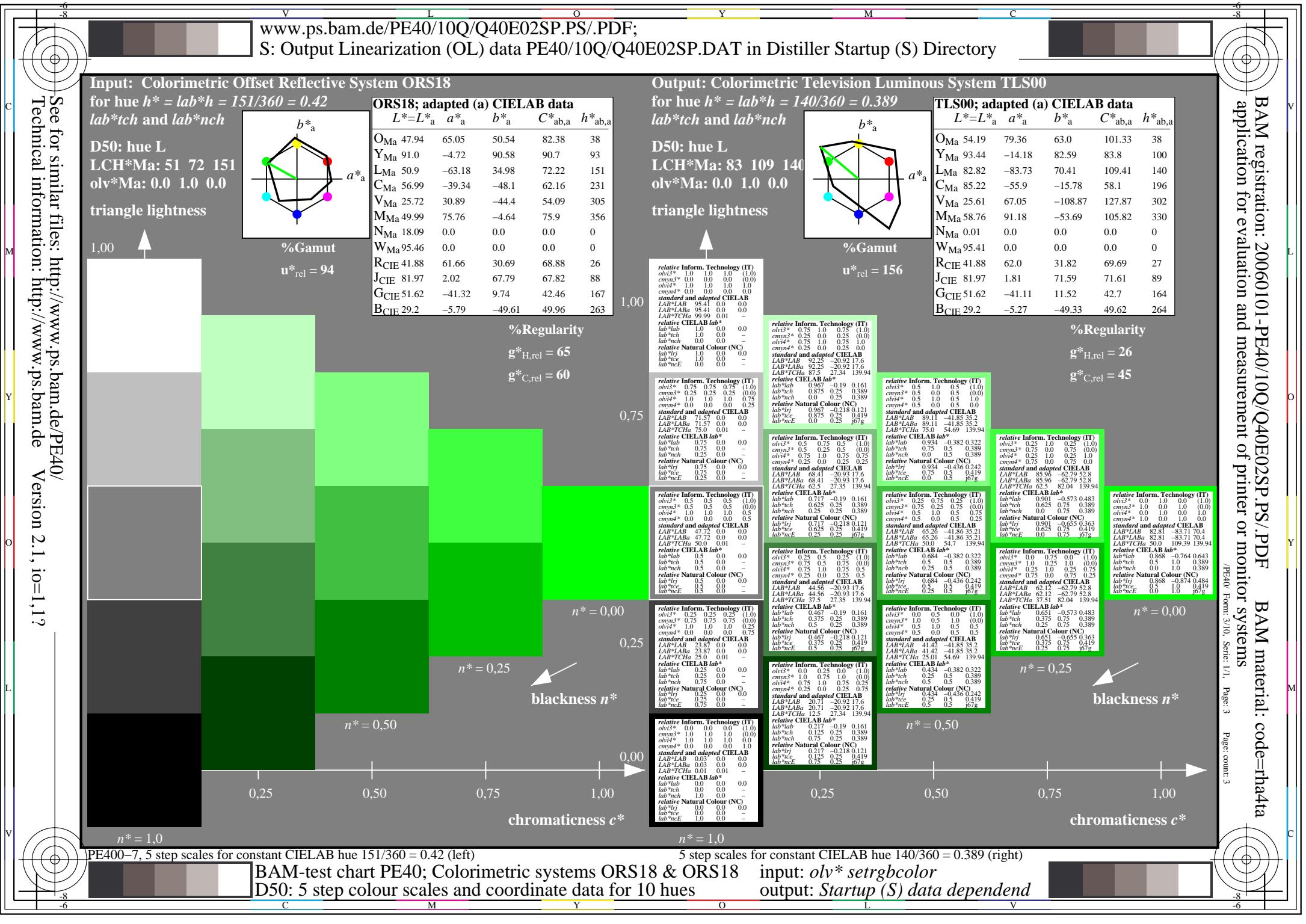
PE400-7, 5 step scales for constant CIELAB hue 93/360 = 0.258 (left)

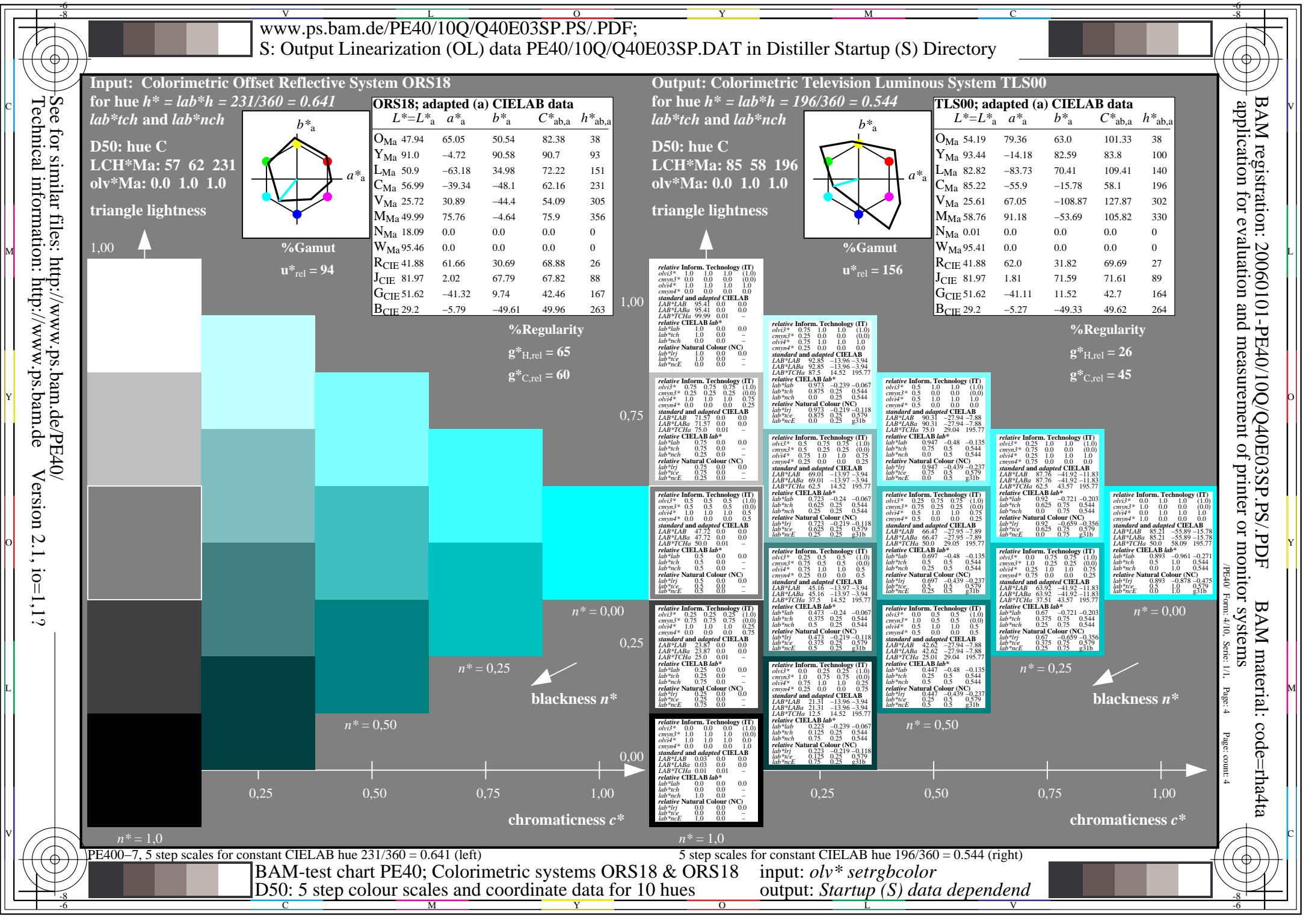
5 step scales for constant CIELAB hue 100/360 = 0.277 (right)

BAM-test chart PE40; Colorimetric systems ORS18 & ORS18  
D50: 5 step colour scales and coordinate data for 10 huesinput:  $olv^*$  setrgbcolor  
output: Startup (S) data dependend

BAM registration: 20060101-PE40/10Q/Q40E01SP.PS/.PDF  
application for evaluation and measurement of printer or monitor systems

BAM material: code=rha4ta  
PE40 Form: 2/10, Serie: 1/1, Page: 2  
Page: count: 2





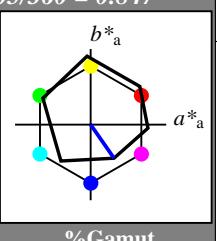

**Input: Colorimetric Offset Reflective System ORS18**
for hue  $h^* = lab^*h = 305/360 = 0.847$  $lab^*tch$  and  $lab^*nch$ 

D50: hue V

LCH\*Ma: 26 54 305

olv\*Ma: 0.0 0.0 1.0

triangle lightness


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

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

1,00


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

1,00

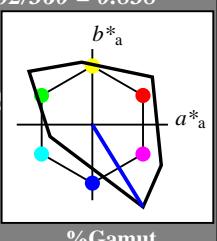

**%Regularity**
 $g^*_{H,rel} = 26$  $g^*_{C,rel} = 45$ 
**Output: Colorimetric Television Luminous System TLS00**
for hue  $h^* = lab^*h = 302/360 = 0.838$  $lab^*tch$  and  $lab^*nch$ 

D50: hue V

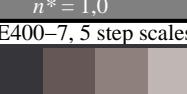
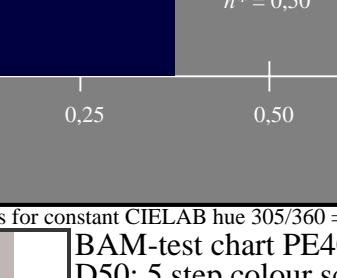
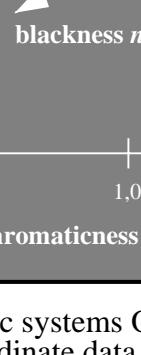
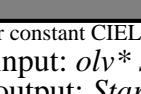
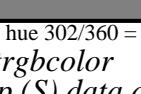
LCH\*Ma: 26 128 302

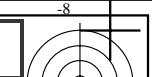
olv\*Ma: 0.0 0.0 1.0

triangle lightness


**TLS00; adapted (a) CIELAB data**

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

**%Regularity**
 $g^*_{H,rel} = 26$  $g^*_{C,rel} = 45$  $n^* = 1,0$  $n^* = 0,50$  $n^* = 0,25$  $n^* = 0,00$ chromaticness  $c^*$  $n^* = 1,0$  $n^* = 0,50$  $n^* = 0,00$ chromaticness  $c^*$

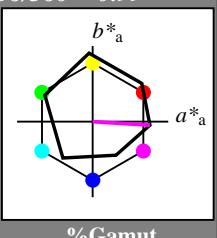

**Input: Colorimetric Offset Reflective System ORS18**
for hue  $h^* = lab^*h = 356/360 = 0.99$  $lab^*tch$  and  $lab^*nch$ 

D50: hue M

LCH\*Ma: 50 76 356

olv\*Ma: 1.0 0.0 1.0

triangle lightness


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

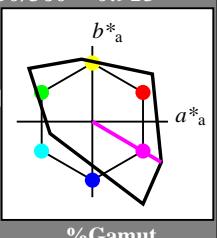
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	47.94	65.05	50.54	82.38	38
Y <sub>Ma</sub>	91.0	-4.72	90.58	90.7	93
L <sub>Ma</sub>	50.9	-63.18	34.98	72.22	151
C <sub>Ma</sub>	56.99	-39.34	-48.1	62.16	231
V <sub>Ma</sub>	25.72	30.89	-44.4	54.09	305
M <sub>Ma</sub>	49.99	75.76	-4.64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

chromaticness  $c^*$  $n^* = 1,0$ 

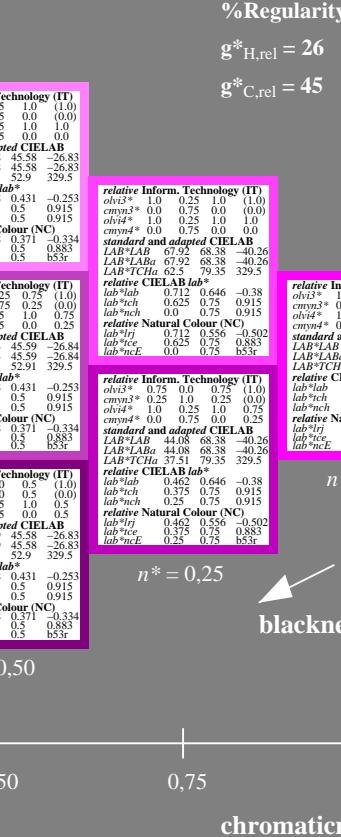
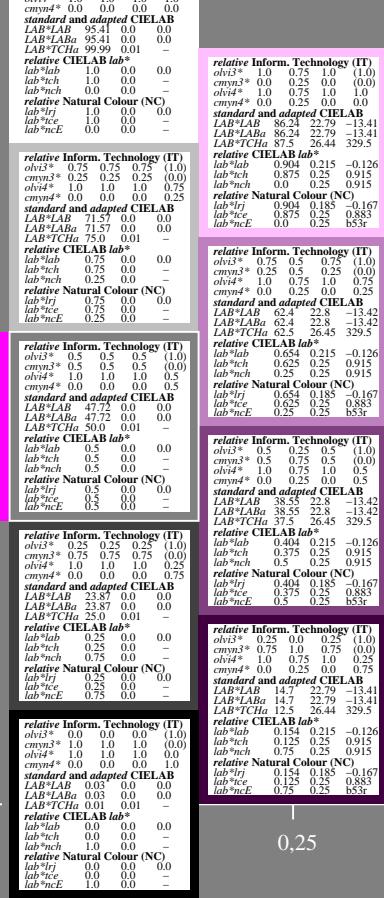
PE400-7, 5 step scales for constant CIELAB hue 356/360 = 0.99 (left)

BAM-test chart PE40; Colorimetric systems ORS18 &amp; ORS18

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

**Output: Colorimetric Television Luminous System TLS00**
for hue  $h^* = lab^*h = 330/360 = 0.915$  $lab^*tch$  and  $lab^*nch$ 
**TLS00; adapted (a) CIELAB data**

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

 $n^* = 0,00$  $n^* = 0,25$  $n^* = 0,50$  $n^* = 0,75$  $n^* = 1,00$ chromaticness  $c^*$ 

BAM registration: 20060101-PE40/10Q/Q40E05SP.PS/.PDF  
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BAM material: code=rha4ta

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





