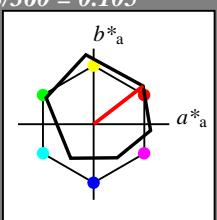


Input: Colorimetric Offset Reflective System ORS18

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

A: hue O
 LCH*Ma: 48 83 38
 olv*Ma: 1.0 0.0 0.0
 triangle lightness t^*



relative Inform. Technology (IT)

olv3* 1.0 1.0 1.0 (1.0)
 cmyn3* 0.0 0.0 0.0 (0.0)
 olvi4* 1.0 1.0 1.0 1.0
 cmyn4* 0.0 0.0 0.0 0.0

standard and adapted CIELAB

LAB*LAB 95.41 -0.98 4.75
 LAB*LABa 95.41 0.0 0.0
 LAB*TChA 99.99 0.01 -

relative CIELAB lab*

lab*lab 1.0 0.0 0.0

lab*tch 1.0 0.0 -

lab*nch 0.0 0.0 -

relative Natural Colour (NC)

lab*lrj 1.0 0.0 0.0
 lab*tce 1.0 0.0 -

lab*ncE 0.0 0.0 -

relative Inform. Technology (IT)

olv3* 0.5 0.5 0.5 (1.0)
 cmyn3* 0.5 0.5 0.5 (0.0)
 olvi4* 1.0 1.0 1.0 0.5
 cmyn4* 0.0 0.0 0.0 0.5

standard and adapted CIELAB

LAB*LAB 56.71 -0.24 2.14
 LAB*LABa 56.71 0.0 0.0
 LAB*TChA 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.5 0.0 0.0

lab*tch 0.5 0.0 -

lab*nch 0.5 0.0 -

relative Natural Colour (NC)

lab*lrj 0.5 0.0 0.0
 lab*tce 0.5 0.0 -

lab*ncE 0.5 0.0 -

relative Inform. Technology (IT)

olv3* 0.0 0.0 0.0 (1.0)
 cmyn3* 1.0 1.0 1.0 (0.0)
 olvi4* 1.0 1.0 1.0 0.0
 cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB

LAB*LAB 18.02 0.5 -0.47
 LAB*LABa 18.02 0.0 0.0
 LAB*TChA 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0
 lab*tce 0.0 0.0 -

lab*ncE 1.0 0.0 -

$n^* = 1.0$

ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	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	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Gamut

$u^*_{rel} = 93$

%Regularity

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

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

relative Inform. Technology (IT)

olv3* 1.0 0.5 0.5 (1.0)

cmyn3* 0.0 0.5 0.5 (0.0)

olvi4* 1.0 0.5 0.5 1.0

cmyn4* 0.0 0.5 0.5 0.0

standard and adapted CIELAB

LAB*LAB 71.67 32.15 28.41

LAB*LABa 71.67 32.69 25.25

LAB*TChA 75.0 41.31 37.69

relative CIELAB lab*

lab*lab 0.693 0.396 0.306

lab*tch 0.75 0.5 0.105

lab*nch 0.0 0.5 0.105

relative Natural Colour (NC)

lab*lrj 0.693 0.477 0.15

lab*tce 0.75 0.5 0.048

lab*ncE 0.0 0.5 r19j

standard and adapted CIELAB

LAB*LAB 47.94 65.3 52.06

LAB*LABa 47.94 65.37 50.51

LAB*TChA 50.0 82.61 37.69

relative CIELAB lab*

lab*lab 0.387 0.791 0.611

lab*tch 0.5 1.0 0.105

lab*nch 0.0 1.0 0.105

relative Natural Colour (NC)

lab*lrj 0.387 0.954 0.299

lab*tce 0.5 1.0 0.048

lab*ncE 0.0 1.0 r19j

standard and adapted CIELAB

LAB*LAB 32.98 32.9 25.8

LAB*LABa 32.98 32.69 25.25

LAB*TChA 25.01 41.31 37.69

relative CIELAB lab*

lab*lab 0.193 0.396 0.306

lab*tch 0.25 0.5 0.105

lab*nch 0.5 0.5 0.105

relative Natural Colour (NC)

lab*lrj 0.193 0.477 0.15

lab*tce 0.25 0.5 0.048

lab*ncE 0.5 0.5 r19j

standard and adapted CIELAB

LAB*LAB 18.02 0.5 -0.47

LAB*LABa 18.02 0.0 0.0

LAB*TChA 0.01 0.01 -

relative CIELAB lab*

lab*lab 0.0 0.0 0.0

lab*tch 0.0 0.0 -

lab*nch 1.0 0.0 -

relative Natural Colour (NC)

lab*lrj 0.0 0.0 0.0

lab*tce 0.0 0.0 -

lab*ncE 1.0 0.0 -

$n^* = 0.00$

ORS18; adapted (a) CIELAB data

	$L^*=L_a^*$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	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	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

%Gamut

$u^*_{rel} = 158$

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)

olv3* 1.0 0.5 0.5 (1.0)

cmyn3* 0.0 0.5 0.5 (0.0)

olvi4* 1.0 0.5 0.5 1.0

cmyn4* 0.0 0.5 0.5 0.0

standard and adapted CIELAB

LAB*LAB 72.95 38.45 32.27

LAB*LABa 72.95 38.45 32.27

LAB*TChA 75.0 50.2 40.0

relative CIELAB lab*

lab*lab 0.765 0.383 0.321

lab*tch 0.75 0.5 0.111

lab*nch 0.0 0.5 0.111

relative Natural Colour (NC)

lab*lrj 0.765 0.471 0.167

lab*tce 0.75 0.5 0.054

lab*ncE 0.5 0.5 r21j

relative Inform. Technology (IT)

olv3* 0.5 0.0 0.0 (1.0)

cmyn3* 0.1 1.0 1.0 (0.0)

olvi4* 1.0 1.0 1.0 0.0

cmyn4* 0.0 0.0 0.0 1.0

standard and adapted CIELAB

LAB*LAB 47.72 0.0 0.0

LAB*LABa 47.72 0.0 0.0

LAB*TChA 50.0 0.01 -

relative CIELAB lab*

lab*lab 0.265 0.383 0.321

lab*tch 0.25 0.5 0.111

lab*nch 0.5 0.5 0.111

relative Natural Colour (NC)

lab*lrj 0.265 0.471 0.167

lab*tce 0.25 0.5 0.054

lab*ncE 0.5 0.5 r21j

$n^* = 0.50$

blackness n^*

$n^* = 1,0$

chromaticness c^*

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 40/360 = 0.111$

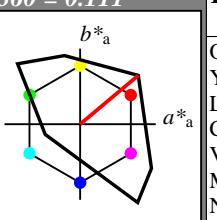
lab*tch and lab*nch

A: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0

triangle lightness t^*



%Gamut

$u^*_{rel} = 158$

%Regularity

$g^*_{H,rel} = 20$

$g^*_{C,rel} = 37$

relative Inform. Technology (IT)

olv3* 1.0 0.5 0.5 (1.0)

cmyn3* 0.0 0.5 0.5 (0.0)

olvi4* 1.0 0.5 0.5 1.0

cmyn4* 0.0 0.5 0.5 0.0

standard and adapted CIELAB

LAB*LAB 72.95 38.45 32.27

LAB*LABa 72.95 38.45 32.27

LAB*TChA 75.0 50.2 40.0

relative CIELAB lab*

lab*lab 0.765 0.383 0.321

lab*tch 0.75 0.5 0.111

lab*nch 0.0 0.5 0.111

relative Natural Colour (NC)

lab*lrj 0.765 0.471 0.167

lab*tce 0.75 0.5 0.054

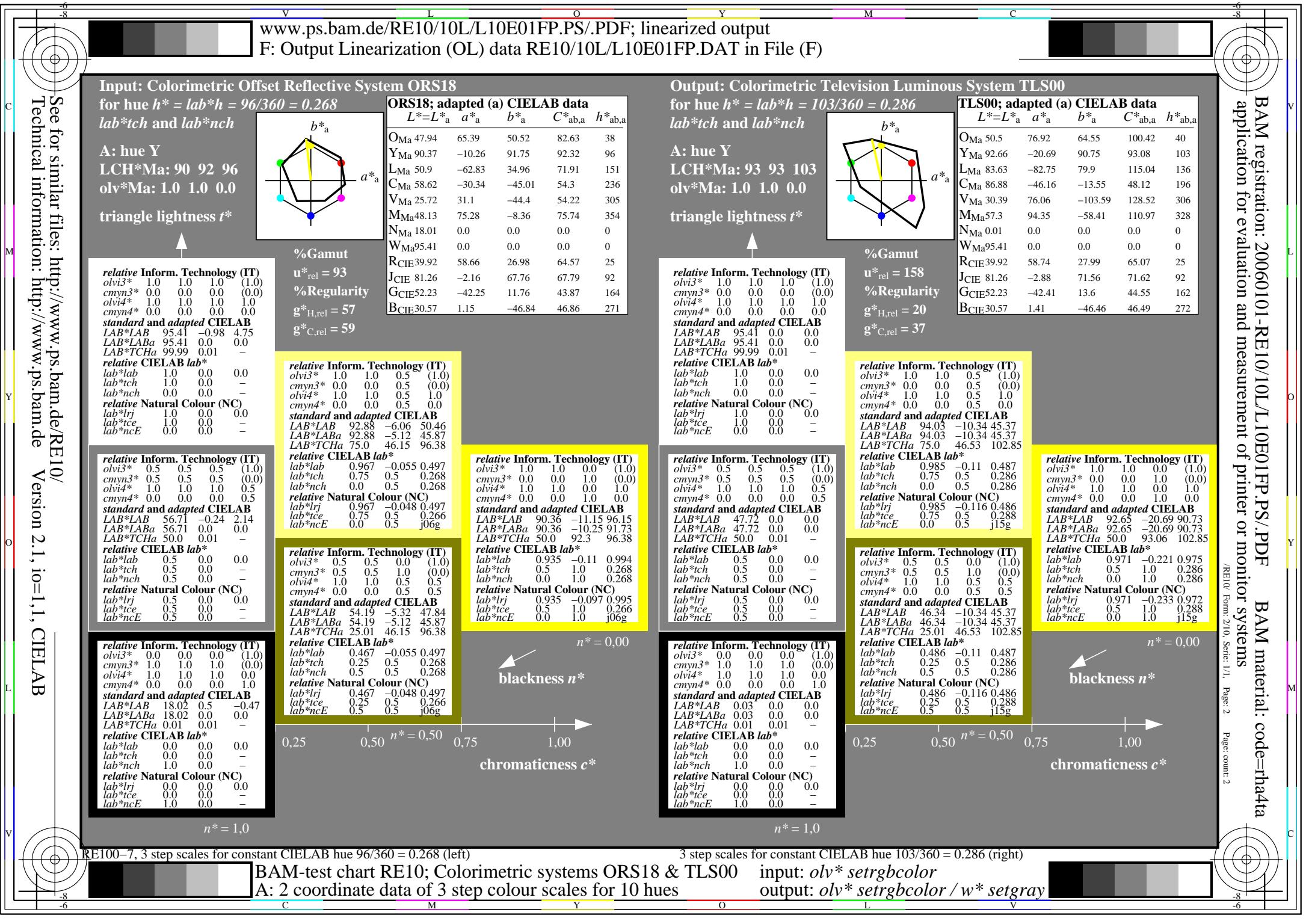
lab*ncE 0.5 0.5 r21j

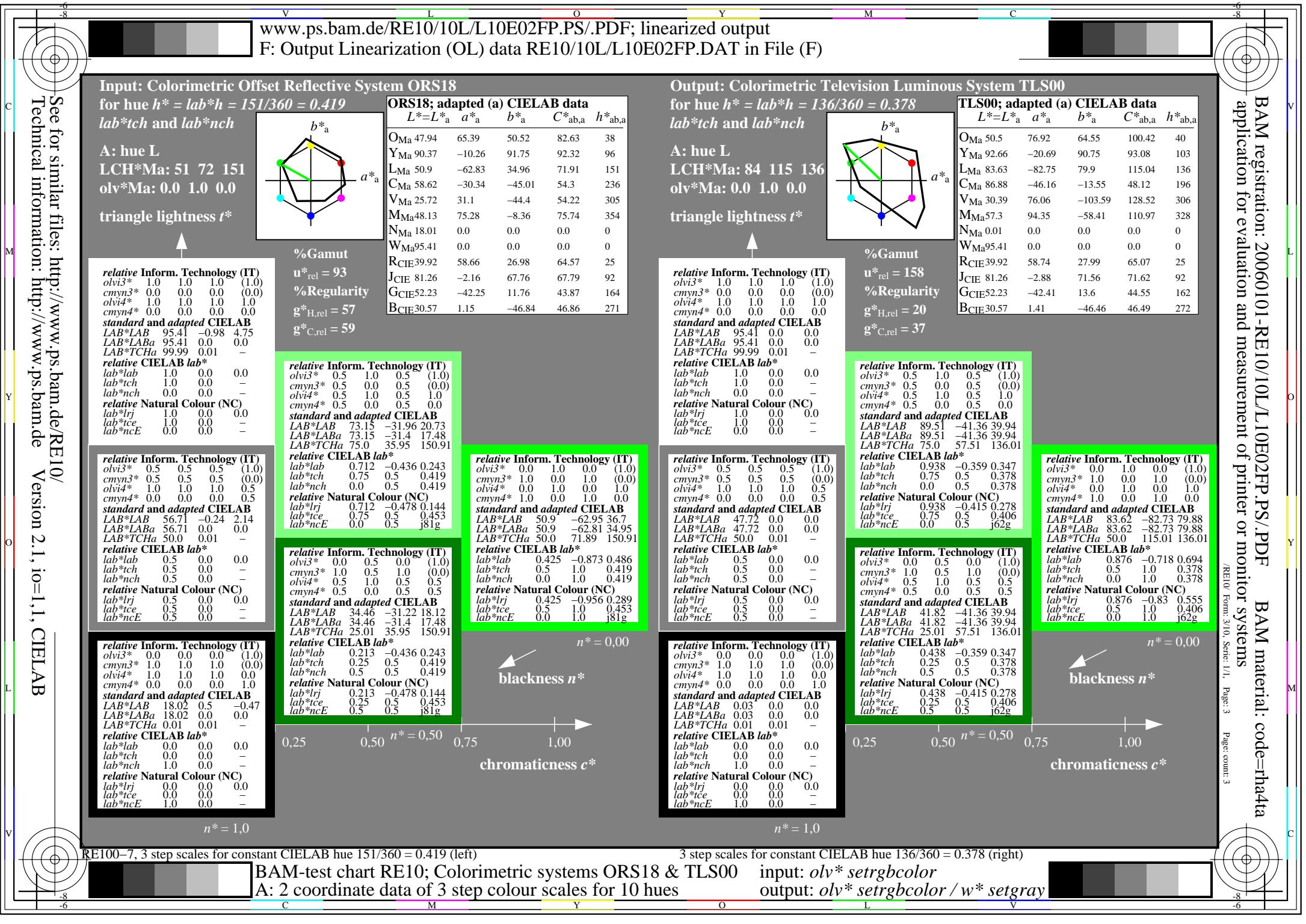
relative Inform. Technology (IT)

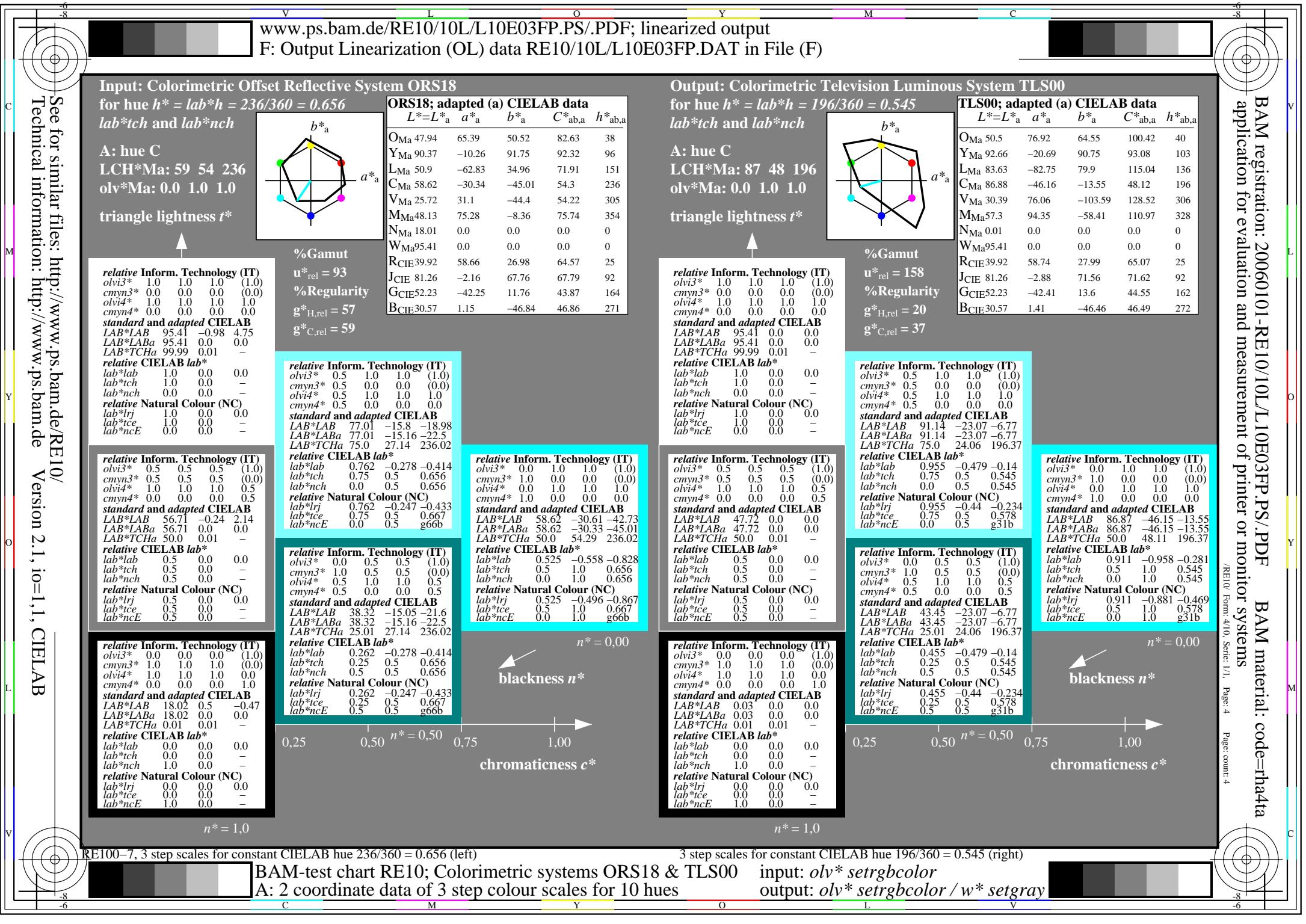
olv3* 0.5 0.0 0.0 (1.0)

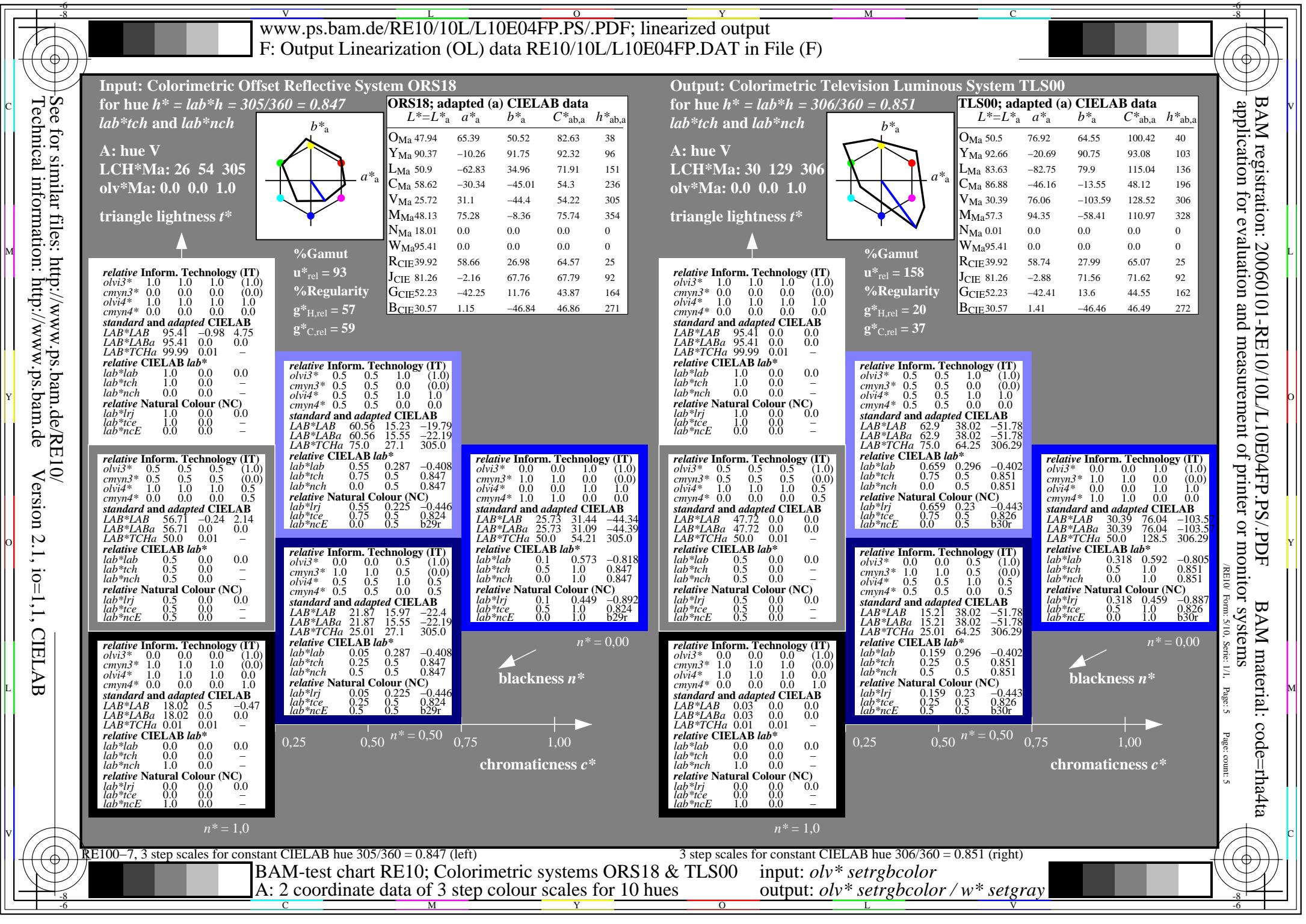
cmyn3* 0.1 1.0 1.0 (0.0)

olvi4* 1.0









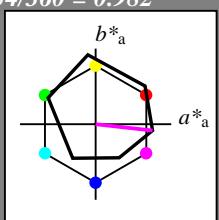
See for similar files: <http://www.ps.bam.de/RE10/>
 Technical information: <http://www.ps.bam.de>

Version 2.1, io=11, CIELAB

Input: Colorimetric Offset Reflective System ORS18

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

A: hue M
 LCH*Ma: 48 76 354
 olv*Ma: 1.0 0.0 1.0
 triangle lightness t^*



%Gamut

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

relative Inform. Technology (IT)
 olv^*_3 : 1.0 1.0 1.0 (1.0)
 cmy^*_3 : 0.0 0.0 0.0 (0.0)
 olv^*_4 : 1.0 1.0 1.0 1.0
 cmy^*_4 : 0.0 0.0 0.0 0.0

standard and adapted CIELAB
 LAB^*LAB : 95.41 -0.98 4.75
 LAB^*LABa : 95.41 0.0 0.0
 LAB^*TCh_a : 99.99 0.01 -

relative CIELAB lab*
 lab^*lab : 1.0 0.0 0.0
 lab^*tch : 1.0 0.0 -
 lab^*nch : 0.0 0.0 -

relative Natural Colour (NC)
 lab^*lrij : 1.0 0.0 0.0
 lab^*tce : 1.0 0.0 -
 lab^*ncE : 0.0 0.0 -

relative Inform. Technology (IT)
 olv^*_3 : 0.5 0.5 0.5 (1.0)
 cmy^*_3 : 0.5 0.5 0.5 (0.0)
 olv^*_4 : 1.0 1.0 1.0 0.5
 cmy^*_4 : 0.0 0.0 0.0 0.5

standard and adapted CIELAB
 LAB^*LAB : 56.71 -0.24 2.14
 LAB^*LABa : 56.71 0.0 0.0
 LAB^*TCh_a : 50.0 0.01 -

relative CIELAB lab*
 lab^*lab : 0.5 0.0 0.0
 lab^*tch : 0.5 0.0 -
 lab^*nch : 0.5 0.0 -

relative Natural Colour (NC)
 lab^*lrij : 0.5 0.0 0.0
 lab^*tce : 0.5 0.0 -
 lab^*ncE : 0.5 0.0 -

relative Inform. Technology (IT)
 olv^*_3 : 0.0 0.0 0.0 (1.0)
 cmy^*_3 : 1.0 1.0 1.0 (0.0)
 olv^*_4 : 1.0 1.0 1.0 0.0
 cmy^*_4 : 0.0 0.0 0.0 1.0

standard and adapted CIELAB
 LAB^*LAB : 18.02 0.5 -0.47
 LAB^*LABa : 18.02 0.0 0.0
 LAB^*TCh_a : 0.01 0.01 -

relative CIELAB lab*
 lab^*lab : 0.0 0.0 0.0
 lab^*tch : 0.0 0.0 -
 lab^*nch : 1.0 0.0 -

relative Natural Colour (NC)
 lab^*lrij : 0.0 0.0 0.0
 lab^*tce : 0.0 0.0 -
 lab^*ncE : 1.0 0.0 -

$n^* = 1.0$

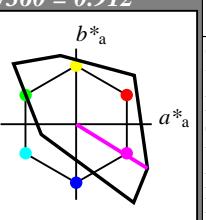
ORS18; adapted (a) CIELAB data

	$L^* = L^*_{ab,a}$	$a^*_{ab,a}$	$b^*_{ab,a}$	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	65.39	50.52	82.63	38
Y _{Ma}	90.37	-10.26	91.75	92.32	96
L _{Ma}	50.9	-62.83	34.96	71.91	151
C _{Ma}	58.62	-30.34	-45.01	54.3	236
V _{Ma}	25.72	31.1	-44.4	54.22	305
M _{Ma}	48.13	75.28	-8.36	75.74	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	64.57	25
J _{CIE}	81.26	-2.16	67.76	67.79	92
G _{CIE}	52.23	-42.25	11.76	43.87	164
B _{CIE}	30.57	1.15	-46.84	46.86	271

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 328/360 = 0.912$

lab**tch* and lab*nch
 A: hue M
 LCH*Ma: 57 111 328
 olv*Ma: 1.0 0.0 1.0
 triangle lightness t^*



%Gamut
 $u^*_{rel} = 158$
 %Regularity
 $g^*_{H,rel} = 20$
 $g^*_{C,rel} = 37$

relative Inform. Technology (IT)
 olv^*_3 : 1.0 1.0 1.0 (1.0)
 cmy^*_3 : 0.0 0.0 0.0 (0.0)
 olv^*_4 : 1.0 1.0 1.0 1.0
 cmy^*_4 : 0.0 0.0 0.0 0.0

standard and adapted CIELAB
 LAB^*LAB : 95.41 0.0 0.0
 LAB^*LABa : 95.41 0.0 0.0
 LAB^*TCh_a : 99.99 0.01 -

relative CIELAB lab*
 lab^*lab : 1.0 0.0 0.0
 lab^*tch : 1.0 0.0 -
 lab^*nch : 0.0 0.0 -

relative Natural Colour (NC)
 lab^*lrij : 1.0 0.0 0.0
 lab^*tce : 1.0 0.0 -
 lab^*ncE : 0.0 0.0 -

relative Inform. Technology (IT)
 olv^*_3 : 1.0 0.5 1.0 (1.0)
 cmy^*_3 : 0.0 0.5 0.0 (0.0)
 olv^*_4 : 1.0 0.5 1.0 1.0
 cmy^*_4 : 0.0 0.5 0.0 0.0

standard and adapted CIELAB
 LAB^*LAB : 76.35 47.17 -29.19
 LAB^*LABa : 76.35 47.17 -29.19
 LAB^*TCh_a : 75.0 55.47 328.23

relative CIELAB lab*
 lab^*lab : 0.8 0.425 -0.262
 lab^*tch : 0.75 0.5 0.912
 lab^*nch : 0.0 0.5 0.912

relative Natural Colour (NC)
 lab^*lrij : 0.8 0.352 -0.354
 lab^*tce : 0.75 0.5 0.874
 lab^*ncE : 0.0 0.5 b49r

relative Inform. Technology (IT)
 olv^*_3 : 0.5 0.5 0.5 (1.0)
 cmy^*_3 : 0.5 0.5 0.5 (0.0)
 olv^*_4 : 1.0 1.0 1.0 0.5
 cmy^*_4 : 0.0 0.0 0.0 0.5

standard and adapted CIELAB
 LAB^*LAB : 47.72 0.0 0.0
 LAB^*LABa : 47.72 0.0 0.0
 LAB^*TCh_a : 50.0 0.01 -

relative CIELAB lab*
 lab^*lab : 0.5 0.0 0.0
 lab^*tch : 0.5 0.0 -
 lab^*nch : 0.5 0.0 -

relative Natural Colour (NC)
 lab^*lrij : 0.5 0.0 0.0
 lab^*tce : 0.5 0.0 -
 lab^*ncE : 0.5 0.0 -

relative Inform. Technology (IT)
 olv^*_3 : 0.0 0.0 0.0 (1.0)
 cmy^*_3 : 1.0 1.0 1.0 (0.0)
 olv^*_4 : 1.0 1.0 1.0 0.0
 cmy^*_4 : 0.0 0.0 0.0 1.0

standard and adapted CIELAB
 LAB^*LAB : 0.03 0.0 0.0
 LAB^*LABa : 0.03 0.0 0.0
 LAB^*TCh_a : 0.01 0.01 -

relative CIELAB lab*
 lab^*lab : 0.0 0.0 0.0
 lab^*tch : 0.0 0.0 -
 lab^*nch : 1.0 0.0 -

relative Natural Colour (NC)
 lab^*lrij : 0.0 0.0 0.0
 lab^*tce : 0.0 0.0 -
 lab^*ncE : 1.0 0.0 -

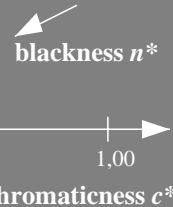
relative Inform. Technology (IT)
 olv^*_3 : 0.3 0.352 -0.354
 cmy^*_3 : 0.25 0.5 0.874
 olv^*_4 : 0.5 0.5 b49r

standard and adapted CIELAB
 LAB^*LAB : 28.66 47.17 -29.19
 LAB^*LABa : 28.66 47.17 -29.19
 LAB^*TCh_a : 25.01 55.47 328.23

relative CIELAB lab*
 lab^*lab : 0.3 0.425 -0.262
 lab^*tch : 0.25 0.5 0.912
 lab^*nch : 0.5 0.5 0.912

relative Natural Colour (NC)
 lab^*lrij : 0.3 0.352 -0.354
 lab^*tce : 0.25 0.5 0.874
 lab^*ncE : 0.5 0.5 b49r

$n^* = 0,00$



chromaticness c^*

$n^* = 1,0$

blackness n^*

$n^* = 0,00$

blackness n^*

$n^* = 1,0$

blackness n^*

