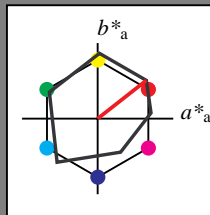


Input: Colorimetric Offset Reflective System ORS18

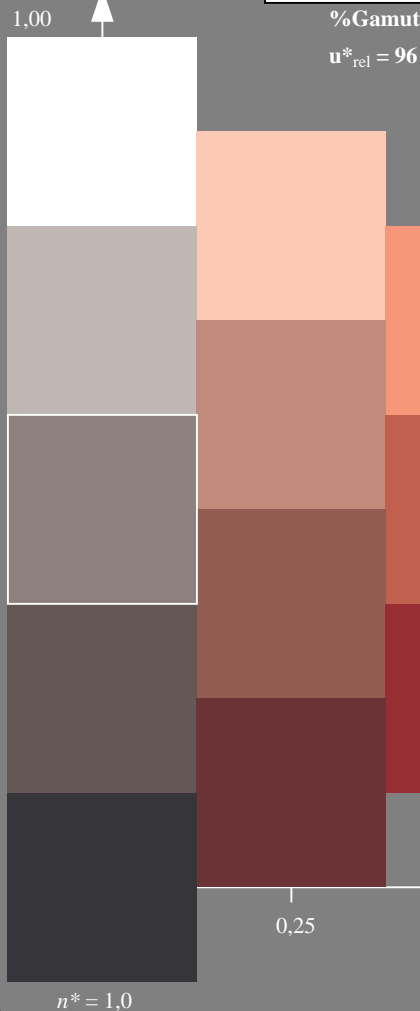
for hue $h^* = lab^*h = 38/360 = 0.106$
 lab^*tch and lab^*nch

A: hue O
 LCH*Ma: 48 82 38
 olv*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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252



%Regularity

$g^*_{H,rel} = -385$
 $g^*_{C,rel} = 62$

relative Inform. Technology (IT)

	obv^*_3	$cmyn^*_3$	olv^*_4	$cmyn^*_4$
1.0	1.0	1.0	1.0	1.0
0.75	0.75	0.75	0.75	0.75
0.50	0.50	0.50	0.50	0.50
0.25	0.25	0.25	0.25	0.25
0.00	0.00	0.00	0.00	0.00

standard and adapted CIELAB

	LAB^*LAB	LAB^*TCha
1.0	71.57	0.0
0.75	75.0	0.01
0.50	75.0	0.01
0.25	75.0	0.01
0.00	75.0	0.01

relative CIELAB lab*

	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce	lab^*nce
1.0	1.0	0.0	0.0	0.0	0.0	0.0
0.75	0.75	0.0	0.0	0.0	0.0	0.0
0.50	0.50	0.0	0.0	0.0	0.0	0.0
0.25	0.25	0.0	0.0	0.0	0.0	0.0
0.00	0.00	0.0	0.0	0.0	0.0	0.0

relative Natural Colour (NC)

	lab^*trj	lab^*tce	lab^*nce
1.0	0.0	0.0	0.0
0.75	0.0	0.0	0.0
0.50	0.0	0.0	0.0
0.25	0.0	0.0	0.0
0.00	0.0	0.0	0.0

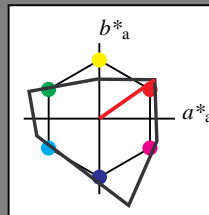
blackness n^*

$n^* = 1.0$ (black) to $n^* = 0.00$ (white)

Output: Colorimetric Television Luminous System TLS00

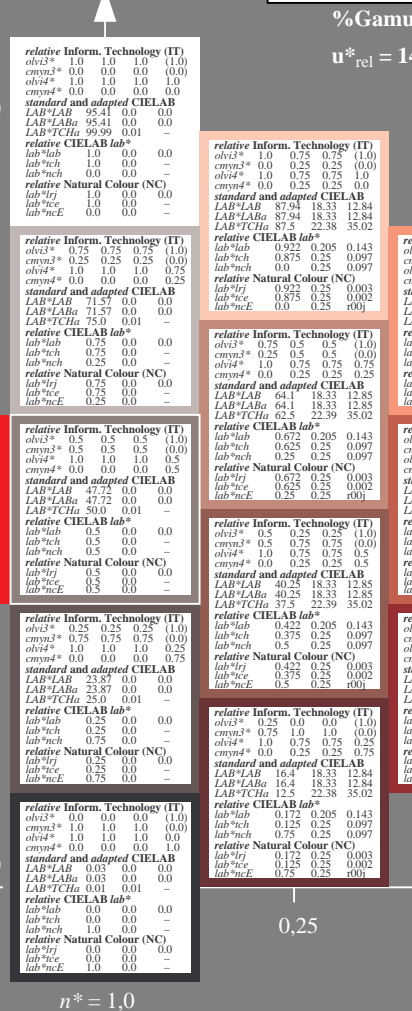
for hue $h^* = lab^*h = 35/360 = 0.097$
 lab^*tch and lab^*nch

A: hue O
 LCH*Ma: 66 90 35
 olv*Ma: 1.0 0.0 0.0
 triangle lightness



TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	74.8	-92.97	36.0	93.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253



%Regularity

$g^*_{H,rel} = 39$
 $g^*_{C,rel} = 43$

relative Inform. Technology (IT)

	obv^*_3	$cmyn^*_3$	olv^*_4	$cmyn^*_4$
1.0	1.0	1.0	1.0	1.0
0.75	0.75	0.75	0.75	0.75
0.50	0.50	0.50	0.50	0.50
0.25	0.25	0.25	0.25	0.25
0.00	0.00	0.00	0.00	0.00

standard and adapted CIELAB

	LAB^*LAB	LAB^*TCha
1.0	80.48	36.66
0.75	80.48	36.66
0.50	80.48	36.66
0.25	80.48	36.66
0.00	80.48	36.66

relative CIELAB lab*

	lab^*lab	lab^*tch	lab^*nch	lab^*trj	lab^*tce	lab^*nce
1.0	1.0	0.0	0.0	0.0	0.0	0.0
0.75	0.75	0.0	0.0	0.0	0.0	0.0
0.50	0.50	0.0	0.0	0.0	0.0	0.0
0.25	0.25	0.0	0.0	0.0	0.0	0.0
0.00	0.00	0.0	0.0	0.0	0.0	0.0

relative Natural Colour (NC)

	lab^*trj	lab^*tce	lab^*nce
1.0	0.0	0.0	0.0
0.75	0.0	0.0	0.0
0.50	0.0	0.0	0.0
0.25	0.0	0.0	0.0
0.00	0.0	0.0	0.0

blackness n^*

$n^* = 1.0$ (black) to $n^* = 0.00$ (white)

SE400-7, 5 step scales for constant CIELAB hue 38/360 = 0.106 (left)

5 step scales for constant CIELAB hue 35/360 = 0.097 (right)

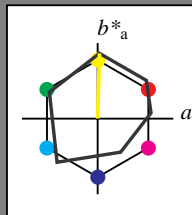
BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: cmY^*_0 setcmykcolor
 output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

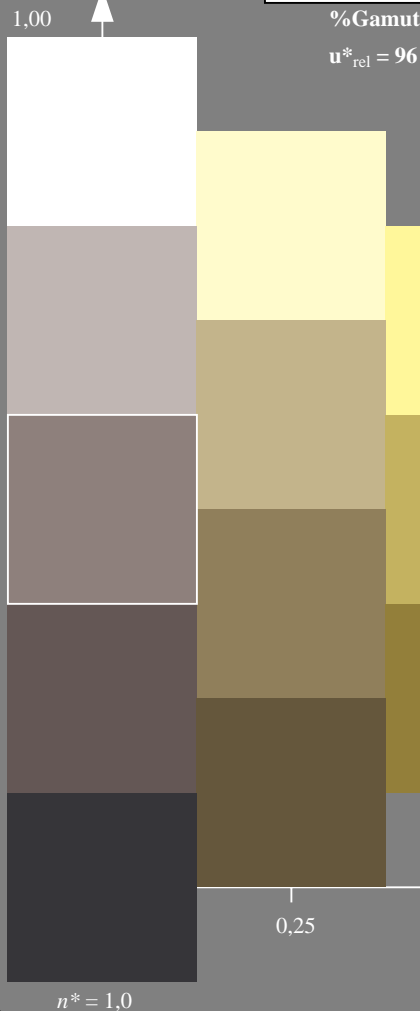
for hue $h^* = lab^*h = 88/360 = 0.246$
 lab^*tch and lab^*nch

A: hue Y
 LCH*Ma: 93 86 88
 olv*Ma: 1.0 1.0 0.0
 triangle lightness



ORS18; adapted (a) CIELAB data

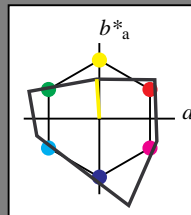
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252



Output: Colorimetric Television Luminous System TLS00

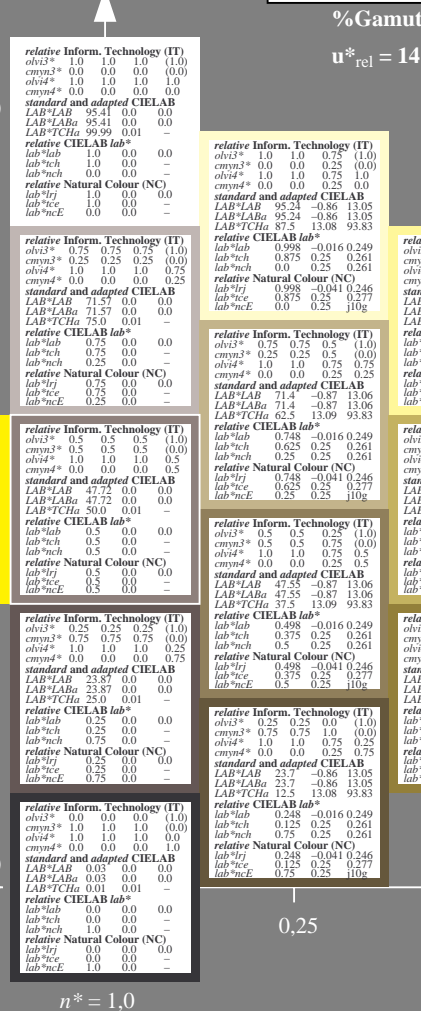
for hue $h^* = lab^*h = 94/360 = 0.261$
 lab^*tch and lab^*nch

A: hue Y
 LCH*Ma: 95 52 94
 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}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	74.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253



SE400-7, 5 step scales for constant CIELAB hue 88/360 = 0.246 (left)

5 step scales for constant CIELAB hue 94/360 = 0.261 (right)

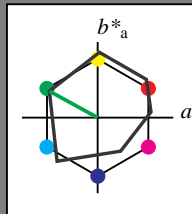
BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

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

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 151/360 = 0.42$
 lab^*tch and lab^*nch

A: hue L
 LCH*Ma: 51 73 151
 olv*Ma: 0.0 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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

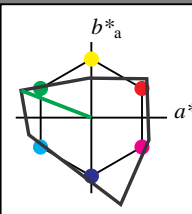
$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 159/360 = 0.441$
 lab^*tch and lab^*nch

A: hue L
 LCH*Ma: 77 100 159
 olv*Ma: 0.0 1.0 0.0
 triangle lightness



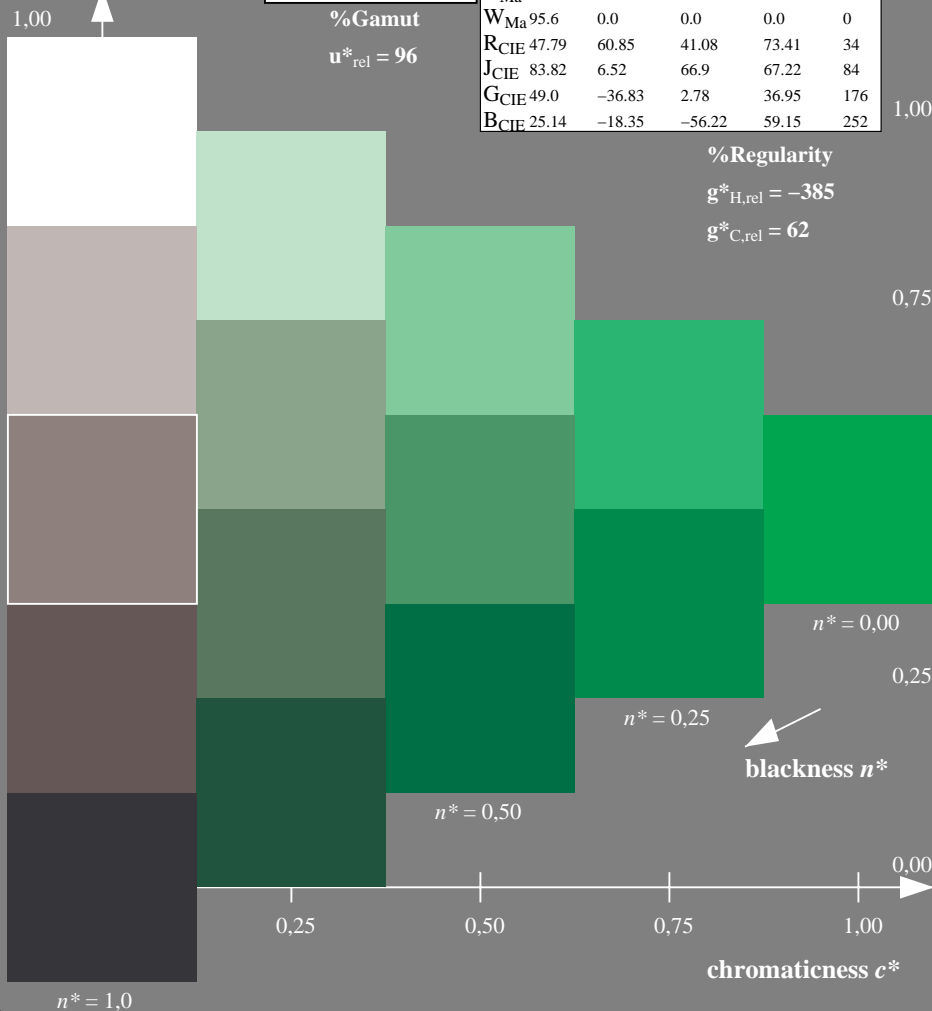
TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

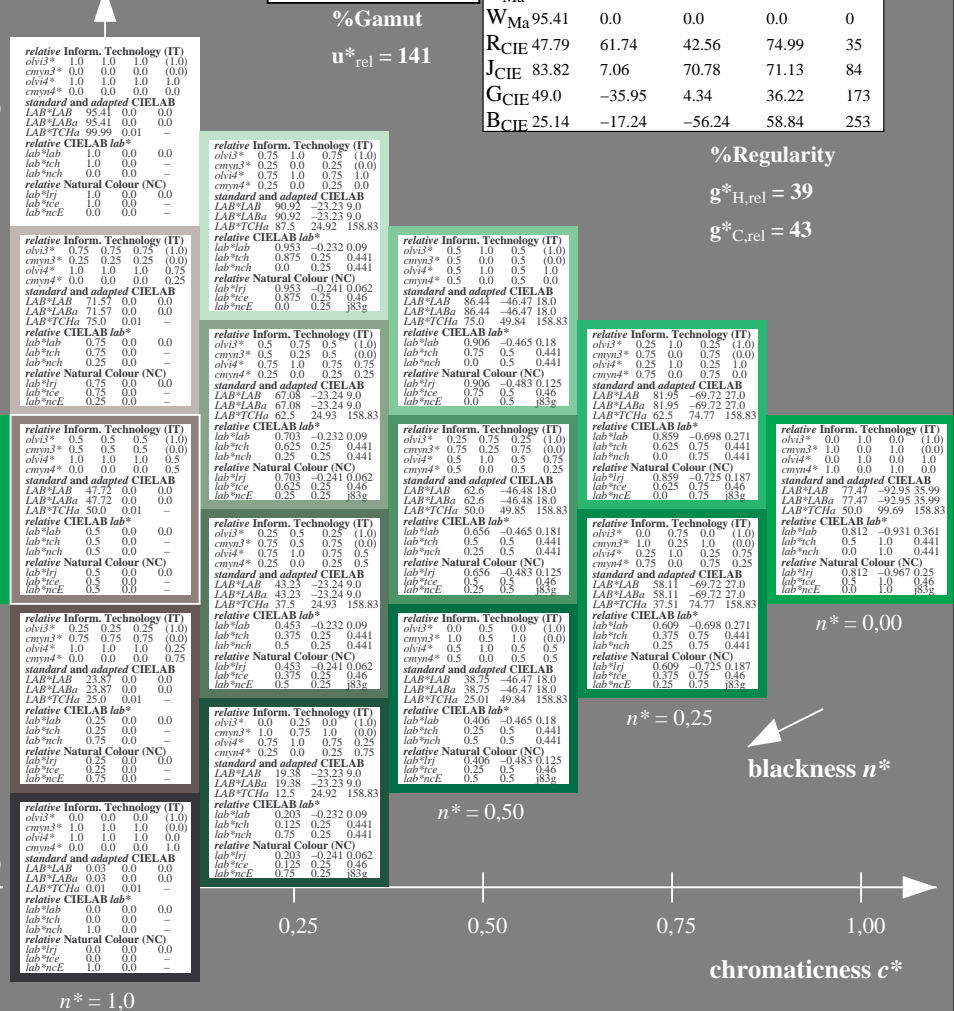
%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



SE400-7, 5 step scales for constant CIELAB hue 151/360 = 0.42 (left)



5 step scales for constant CIELAB hue 159/360 = 0.441 (right)

BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$
 output: no change compared to input

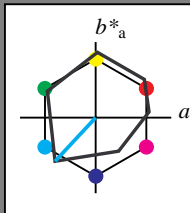
See for similar files: <http://www.ps.bam.de/SE40/>
 Technical information: <http://www.ps.bam.de> Version 2.1, io=0,0

BAM registration: 20060101-SE40/10L/L40E02NP.PS/.PDF BAM material: code=rhadt4
 application for evaluation and measurement of printer or monitor systems
 /SE40/ Form: 3/10, Serie: 1/1, Page: 3 Page count: 3

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 227/360 = 0.631$
 lab^*tch and lab^*nch

A: hue C
 LCH*Ma: 51 79 227
 olv*Ma: 0.0 1.0 1.0
 triangle lightness



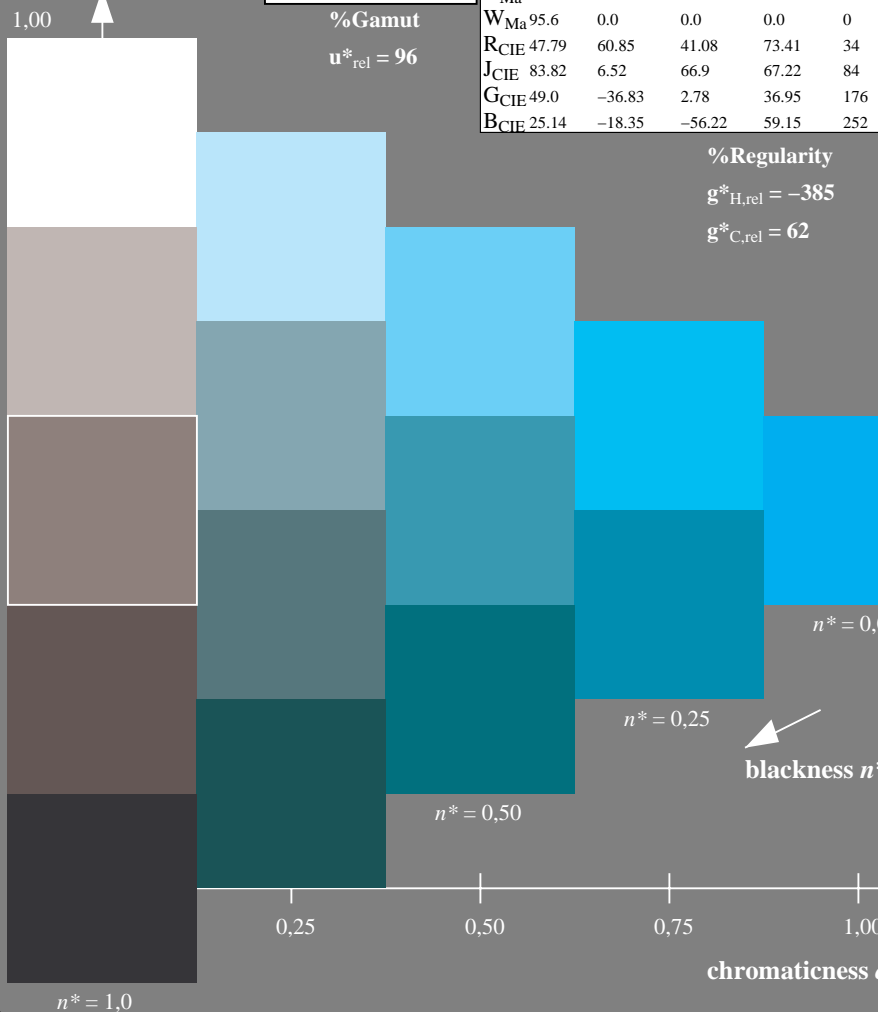
ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

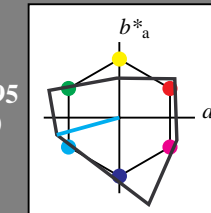


SE400-7, 5 step scales for constant CIELAB hue 227/360 = 0.631 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 195/360 = 0.543$
 lab^*tch and lab^*nch

A: hue C
 LCH*Ma: 78 86 195
 olv*Ma: 0.0 1.0 1.0
 triangle lightness



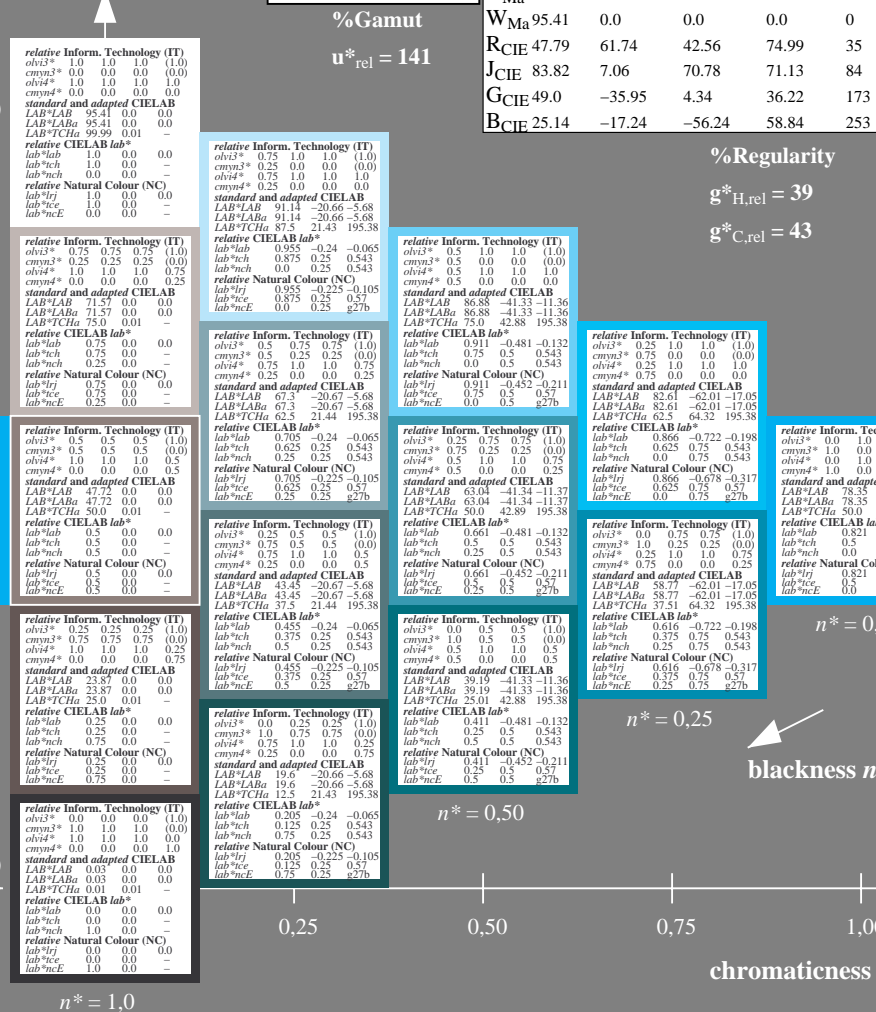
TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	74.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



5 step scales for constant CIELAB hue 195/360 = 0.543 (right)

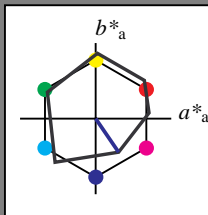
BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step color scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$
 output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 304/360 = 0.845$
 lab^*tch and lab^*nch

A: hue V
 LCH*Ma: 26 54 304
 olv*Ma: 0.0 0.0 1.0
 triangle lightness



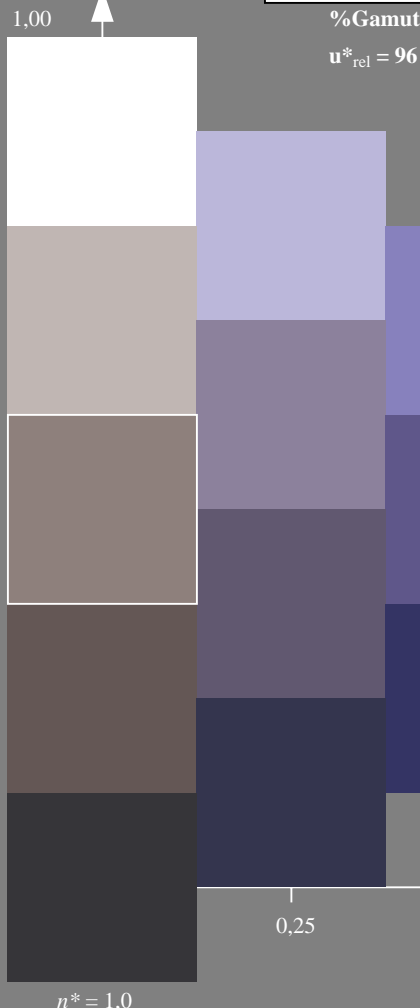
ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

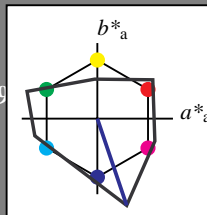


SE400-7, 5 step scales for constant CIELAB hue 304/360 = 0.845 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 289/360 = 0.802$
 lab^*tch and lab^*nch

A: hue V
 LCH*Ma: 13 121 289
 olv*Ma: 0.0 0.0 1.0
 triangle lightness



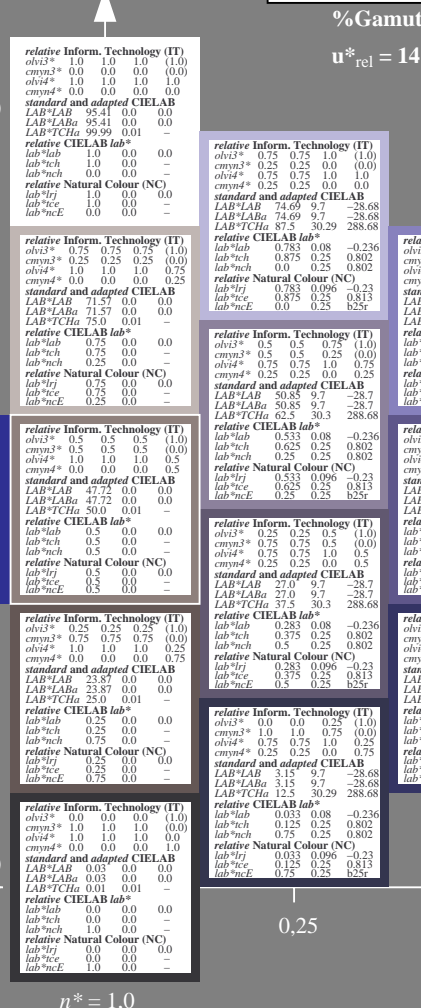
TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



5 step scales for constant CIELAB hue 289/360 = 0.802 (right)

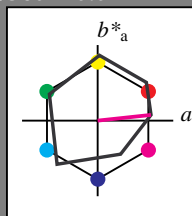
BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmYcolor$
 output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

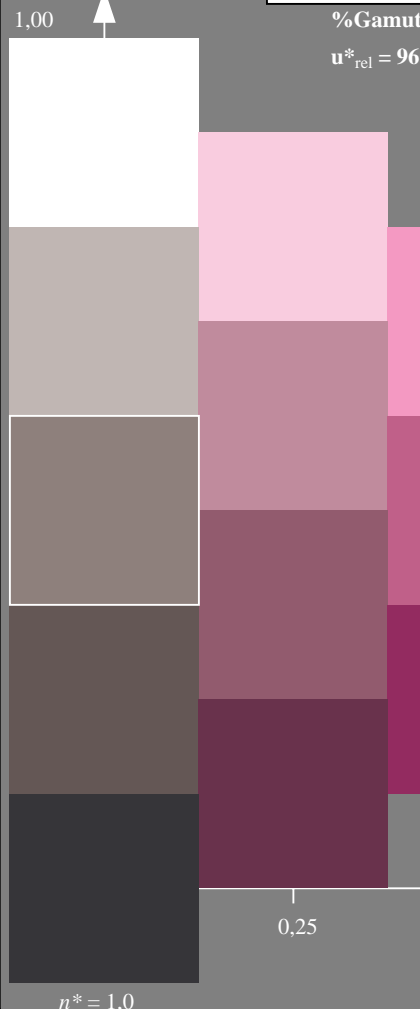
for hue $h^* = lab^*h = 6/360 = 0.017$
 lab^*tch and lab^*nch

A: hue M
 LCH*Ma: 56 71 6
 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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252



%Regularity

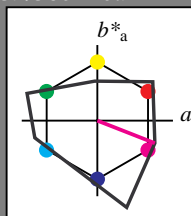
$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

Output: Colorimetric Television Luminous System TLS00

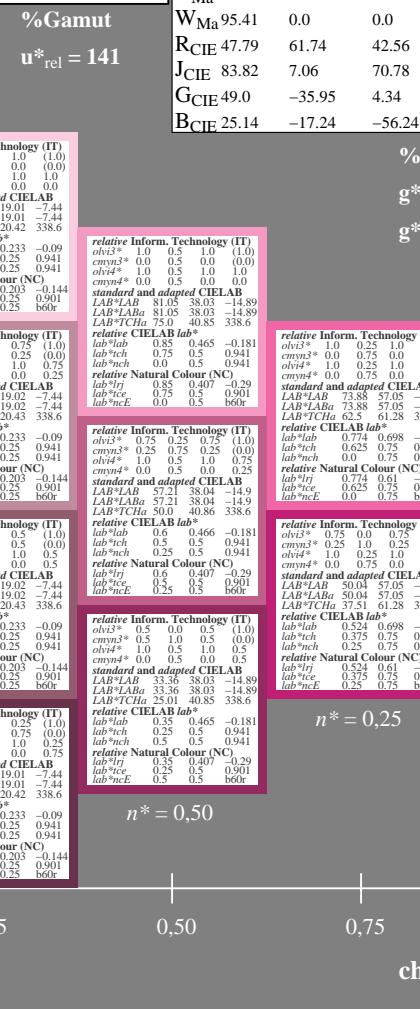
for hue $h^* = lab^*h = 339/360 = 0.941$
 lab^*tch and lab^*nch

A: hue M
 LCH*Ma: 67 82 339
 olv*Ma: 1.0 0.0 1.0
 triangle lightness



TLS00; adapted (a) CIELAB data

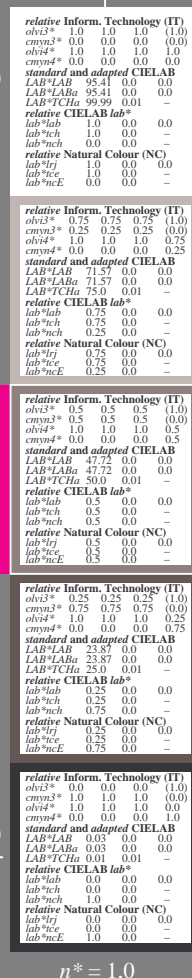
	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253



%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



SE40-7, 5 step scales for constant CIELAB hue 6/360 = 0.017 (left)

5 step scales for constant CIELAB hue 339/360 = 0.941 (right)

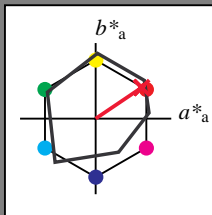
BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$
 output: no change compared to input

Input: Colorimetric Offset Reflective System ORS18

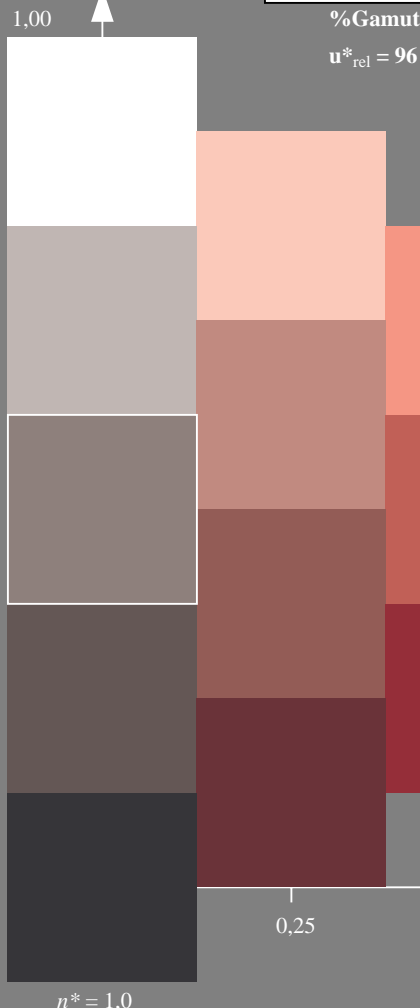
for hue $h^* = lab^*h = 34/360 = 0.095$
 lab^*tch and lab^*nch

A: hue R
 LCH*Ma: 49 79 34
 olv*Ma: 1.0 0.0 0.15
 triangle lightness



ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252



%Regularity
 $g^*_{H,rel} = -385$
 $g^*_{C,rel} = 62$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$
 $cmyn3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 1.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 95.41 \ 0.0 \ 0.0$
 $LAB^*LAb = 95.41 \ 0.0 \ 0.0$
 $LAB^*TCh = 99.99 \ 0.01 \ -$

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)
 $lab^*trj = 1.0 \ 0.0 \ -$
 $lab^*tce = 1.0 \ 0.0 \ -$
 $lab^*nce = 0.0 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.75 \ 0.75 \ 0.75 \ (1.0)$
 $cmyn3^* = 0.25 \ 0.25 \ 0.25 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$
standard and adapted CIELAB
 $LAB^*LAB = 71.57 \ 0.0 \ 0.0$
 $LAB^*LAb = 71.57 \ 0.0 \ 0.0$
 $LAB^*TCh = 75.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.75 \ 0.0 \ 0.0$
 $lab^*tch = 0.75 \ 0.0 \ -$
 $lab^*nch = 0.25 \ 0.0 \ -$
relative Natural Colour (NC)
 $lab^*trj = 0.75 \ 0.0 \ 0.0$
 $lab^*tce = 0.75 \ 0.0 \ 0.0$
 $lab^*nce = 0.25 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$
 $cmyn3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.5$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.5$
standard and adapted CIELAB
 $LAB^*LAB = 47.72 \ 0.0 \ 0.0$
 $LAB^*LAb = 47.72 \ 0.0 \ 0.0$
 $LAB^*TCh = 50.0 \ 0.01 \ -$

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)
 $lab^*trj = 0.5 \ 0.0 \ 0.0$
 $lab^*tce = 0.5 \ 0.0 \ 0.0$
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.25 \ 0.25 \ 0.25 \ (1.0)$
 $cmyn3^* = 0.75 \ 0.75 \ 0.75 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.25$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 0.75$
standard and adapted CIELAB
 $LAB^*LAB = 23.87 \ 0.0 \ 0.0$
 $LAB^*LAb = 23.87 \ 0.0 \ 0.0$
 $LAB^*TCh = 25.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.25 \ 0.0 \ 0.0$
 $lab^*tch = 0.25 \ 0.0 \ 0.0$
 $lab^*nch = 0.75 \ 0.0 \ 0.0$
relative Natural Colour (NC)
 $lab^*trj = 0.25 \ 0.0 \ 0.0$
 $lab^*tce = 0.25 \ 0.0 \ 0.0$
 $lab^*nce = 0.75 \ 0.0 \ -$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$
standard and adapted CIELAB
 $LAB^*LAB = 0.03 \ 0.0 \ 0.0$
 $LAB^*LAb = 0.03 \ 0.0 \ 0.0$
 $LAB^*TCh = 0.0 \ 0.01 \ -$

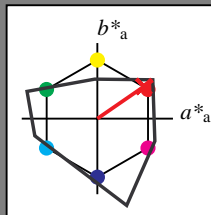
relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ 0.0$
 $lab^*nch = 1.0 \ 0.0 \ 0.0$
relative Natural Colour (NC)
 $lab^*trj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ 0.0$
 $lab^*nce = 1.0 \ 0.0 \ -$

SE400-7, 5 step scales for constant CIELAB hue 34/360 = 0.095 (left)

Output: Colorimetric Television Luminous System TLS00

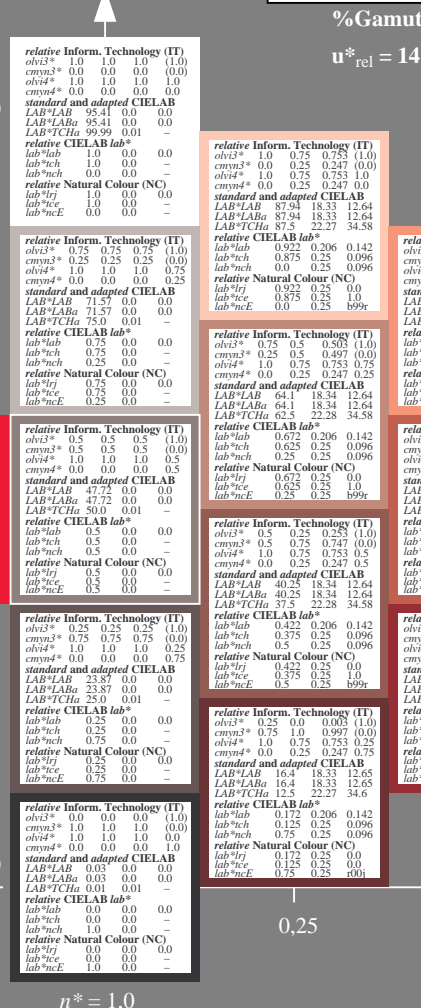
for hue $h^* = lab^*h = 35/360 = 0.096$
 lab^*tch and lab^*nch

A: hue R
 LCH*Ma: 66 89 35
 olv*Ma: 1.0 0.0 0.01
 triangle lightness



TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253



%Regularity
 $g^*_{H,rel} = 39$
 $g^*_{C,rel} = 43$

relative Inform. Technology (IT)
 $olvi3^* = 1.0 \ 0.75 \ 0.753 \ (1.0)$
 $cmyn3^* = 0.0 \ 0.25 \ 0.247 \ (0.0)$
 $olvi4^* = 1.0 \ 0.75 \ 0.753 \ 1.0$
 $cmyn4^* = 0.0 \ 0.25 \ 0.247 \ 0.0$
standard and adapted CIELAB
 $LAB^*LAB = 87.94 \ 18.33 \ 12.64$
 $LAB^*LAb = 87.94 \ 18.33 \ 12.64$
 $LAB^*TCh = 87.5 \ 22.27 \ 34.58$

relative CIELAB lab*
 $lab^*lab = 1.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.875 \ 0.25 \ 0.096$
 $lab^*nch = 0.0 \ 0.25 \ 0.096$
relative Natural Colour (NC)
 $lab^*trj = 0.922 \ 0.25 \ 0.0$
 $lab^*tce = 0.875 \ 0.25 \ 1.0$
 $lab^*nce = 0.0 \ 0.25 \ 0.999$

relative Inform. Technology (IT)
 $olvi3^* = 0.75 \ 0.5 \ 0.503 \ (1.0)$
 $cmyn3^* = 0.25 \ 0.5 \ 0.497 \ (0.0)$
 $olvi4^* = 1.0 \ 0.75 \ 0.753 \ 0.75$
 $cmyn4^* = 0.0 \ 0.25 \ 0.247 \ 0.25$
standard and adapted CIELAB
 $LAB^*LAB = 64.1 \ 18.34 \ 12.64$
 $LAB^*LAb = 64.1 \ 18.34 \ 12.64$
 $LAB^*TCh = 62.5 \ 22.28 \ 34.58$

relative CIELAB lab*
 $lab^*lab = 0.75 \ 0.0 \ 0.0$
 $lab^*tch = 0.625 \ 0.25 \ 0.096$
 $lab^*nch = 0.25 \ 0.25 \ 0.096$
relative Natural Colour (NC)
 $lab^*trj = 0.672 \ 0.25 \ 0.0$
 $lab^*tce = 0.625 \ 0.25 \ 1.0$
 $lab^*nce = 0.25 \ 0.25 \ 0.999$

relative Inform. Technology (IT)
 $olvi3^* = 0.5 \ 0.5 \ 0.503 \ (1.0)$
 $cmyn3^* = 0.5 \ 0.5 \ 0.497 \ (0.0)$
 $olvi4^* = 1.0 \ 0.75 \ 0.753 \ 0.5$
 $cmyn4^* = 0.0 \ 0.25 \ 0.247 \ 0.5$
standard and adapted CIELAB
 $LAB^*LAB = 40.2 \ 18.34 \ 12.64$
 $LAB^*LAb = 40.2 \ 18.34 \ 12.64$
 $LAB^*TCh = 37.5 \ 22.28 \ 34.58$

relative CIELAB lab*
 $lab^*lab = 0.5 \ 0.0 \ 0.0$
 $lab^*tch = 0.5 \ 0.25 \ 0.096$
 $lab^*nch = 0.5 \ 0.25 \ 0.096$
relative Natural Colour (NC)
 $lab^*trj = 0.422 \ 0.25 \ 0.0$
 $lab^*tce = 0.5 \ 0.25 \ 1.0$
 $lab^*nce = 0.5 \ 0.25 \ 0.999$

relative Inform. Technology (IT)
 $olvi3^* = 0.25 \ 0.0 \ 0.003 \ (1.0)$
 $cmyn3^* = 0.75 \ 1.0 \ 0.997 \ (0.0)$
 $olvi4^* = 1.0 \ 0.75 \ 0.753 \ 0.25$
 $cmyn4^* = 0.0 \ 0.25 \ 0.247 \ 0.75$
standard and adapted CIELAB
 $LAB^*LAB = 16.4 \ 18.33 \ 12.65$
 $LAB^*LAb = 16.4 \ 18.33 \ 12.65$
 $LAB^*TCh = 12.5 \ 22.27 \ 34.6$

relative CIELAB lab*
 $lab^*lab = 0.25 \ 0.0 \ 0.0$
 $lab^*tch = 0.25 \ 0.0 \ 0.096$
 $lab^*nch = 0.75 \ 0.25 \ 0.096$
relative Natural Colour (NC)
 $lab^*trj = 0.172 \ 0.25 \ 0.0$
 $lab^*tce = 0.25 \ 0.25 \ 1.0$
 $lab^*nce = 0.75 \ 0.25 \ 0.999$

relative Inform. Technology (IT)
 $olvi3^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$
 $cmyn3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$
 $olvi4^* = 1.0 \ 1.0 \ 1.0 \ 0.0$
 $cmyn4^* = 0.0 \ 0.0 \ 0.0 \ 1.0$
standard and adapted CIELAB
 $LAB^*LAB = 0.03 \ 0.0 \ 0.0$
 $LAB^*LAb = 0.03 \ 0.0 \ 0.0$
 $LAB^*TCh = 0.0 \ 0.01 \ -$

relative CIELAB lab*
 $lab^*lab = 0.0 \ 0.0 \ 0.0$
 $lab^*tch = 0.0 \ 0.0 \ 0.0$
 $lab^*nch = 1.0 \ 0.0 \ 0.0$
relative Natural Colour (NC)
 $lab^*trj = 0.0 \ 0.0 \ 0.0$
 $lab^*tce = 0.0 \ 0.0 \ 0.0$
 $lab^*nce = 1.0 \ 0.0 \ -$

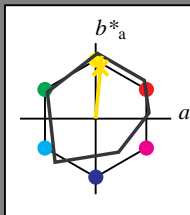
5 step scales for constant CIELAB hue 35/360 = 0.096 (right)

BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues
 input: $cmY0^* \ setcmykcolor$
 output: *no change compared to input*

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 84/360 = 0.235$
 lab^*tch and lab^*nch

A: hue J
 LCH*Ma: 89 83 84
 olv*Ma: 1.0 0.91 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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

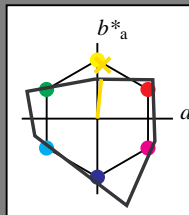
$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 84/360 = 0.234$
 lab^*tch and lab^*nch

A: hue J
 LCH*Ma: 91 52 84
 olv*Ma: 1.0 0.89 0.0
 triangle lightness



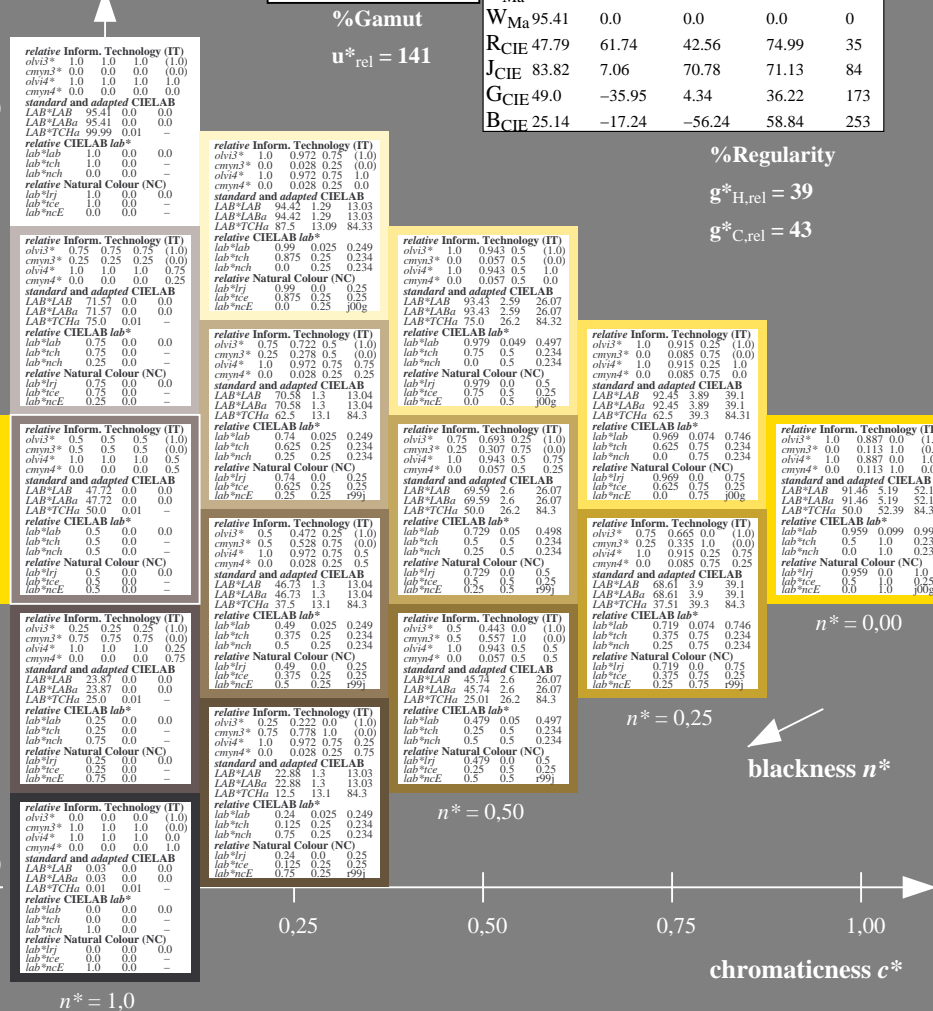
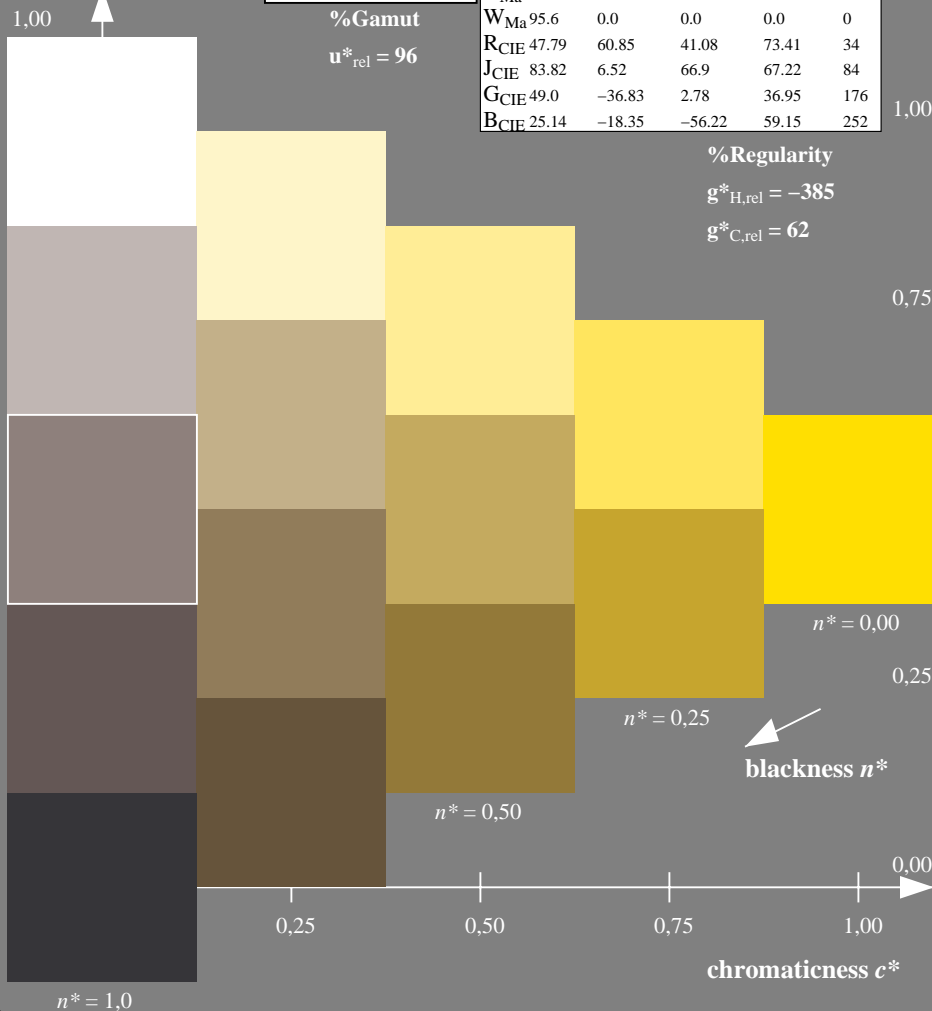
TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	93.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



SE400-7, 5 step scales for constant CIELAB hue 84/360 = 0.235 (left)

5 step scales for constant CIELAB hue 84/360 = 0.234 (right)

BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmykcolor$
 output: no change compared to input

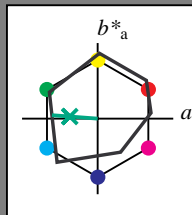
See for similar files: <http://www.ps.bam.de/SE40/>
 Technical information: <http://www.ps.bam.de> Version 2.1, io=0,0

BAM registration: 20060101-SE40/10L/L40E07NP.PS/.PDF
 application for evaluation and measurement of printer or monitor systems
 BAM material: code=rhadt4
 SE400 Form: 8/10, Serie: 1/1, Page: 8 Page count: 8

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 176/360 = 0.488$
 lab^*tch and lab^*nch

A: hue G
 LCH*Ma: 51 61 176
 olv*Ma: 0.0 1.0 0.33
 triangle lightness



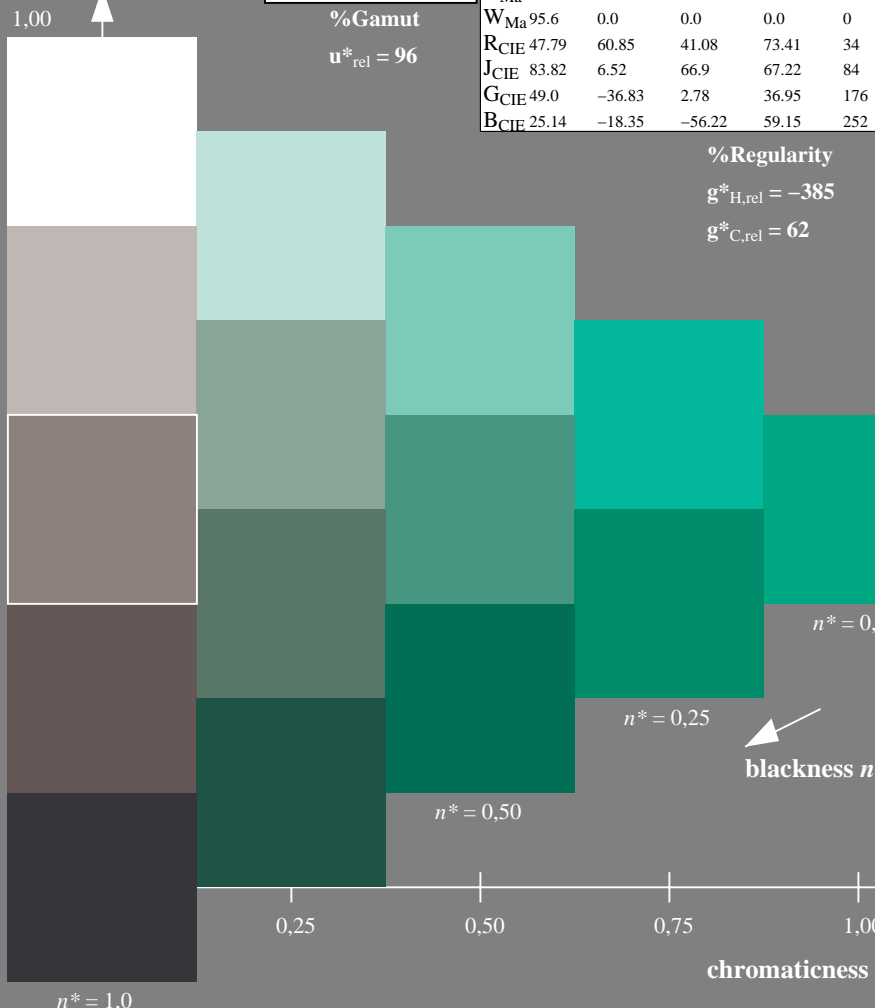
ORS18; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

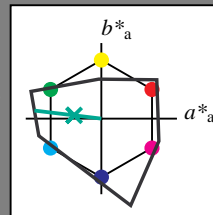


SE400-7, 5 step scales for constant CIELAB hue 176/360 = 0.488 (left)

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 173/360 = 0.481$
 lab^*tch and lab^*nch

A: hue G
 LCH*Ma: 78 89 173
 olv*Ma: 0.0 1.0 0.43
 triangle lightness



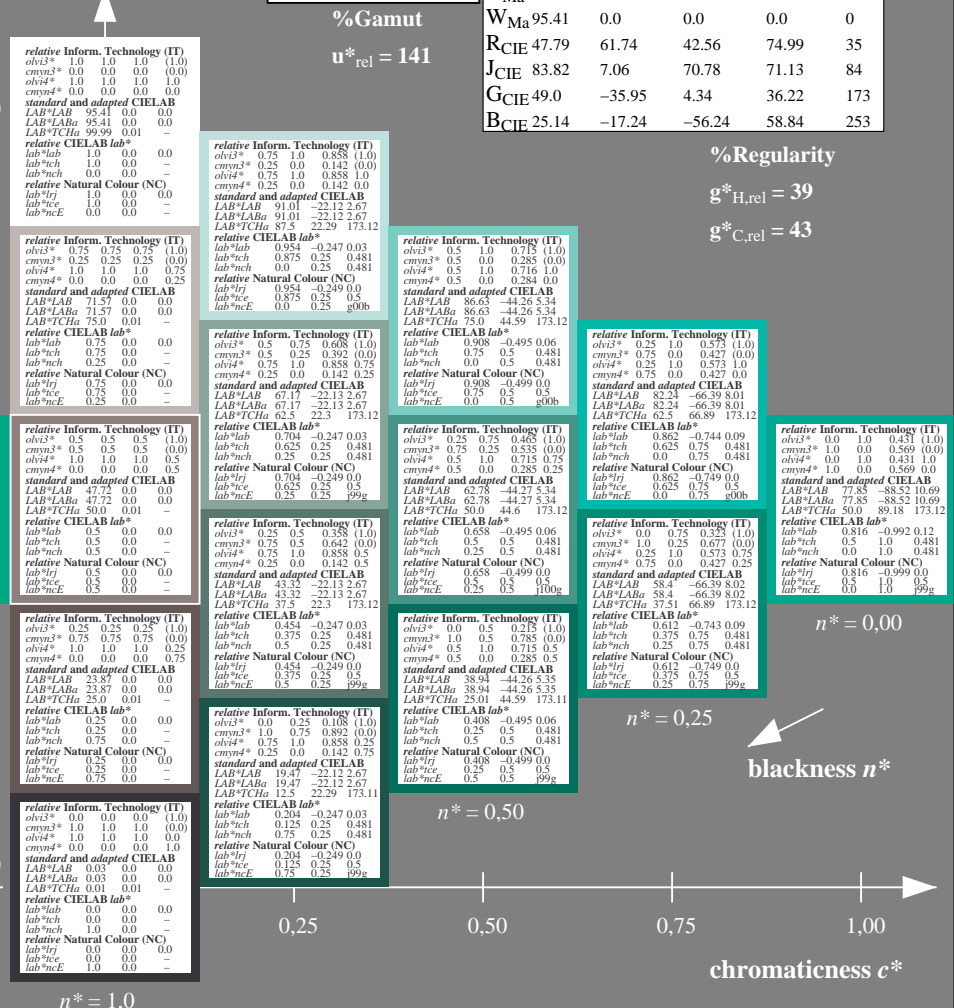
TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	74.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



5 step scales for constant CIELAB hue 173/360 = 0.481 (right)

BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^*$ setcmYcolor
 output: no change compared to input

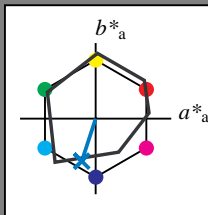
See for similar files: <http://www.ps.bam.de/SE40/>
 Technical information: <http://www.ps.bam.de> Version 2.1, io=0,0

BAM registration: 20060101-SE40/10L/L40E08NP.PS/.PDF
 application for evaluation and measurement of printer or monitor systems
 SE40 Form: 9/10, Serie: 1/1, Page: 9 Page count: 9
 BAM material: code=rhadt4

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab^*h = 252/360 = 0.7$
 lab^*tch and lab^*nch

A: hue B
 LCH*Ma: 40 55 252
 olv*Ma: 0.0 0.56 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	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	0.0	0.0	0.0	0
R _{CIE}	47.79	60.85	41.08	73.41	34
J _{CIE}	83.82	6.52	66.9	67.22	84
G _{CIE}	49.0	-36.83	2.78	36.95	176
B _{CIE}	25.14	-18.35	-56.22	59.15	252

%Regularity

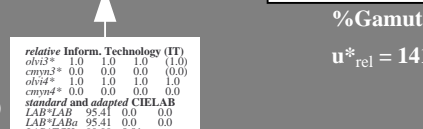
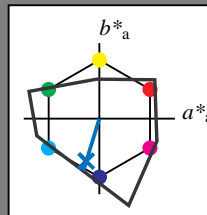
$g^*_{H,rel} = -385$

$g^*_{C,rel} = 62$

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 253/360 = 0.703$
 lab^*tch and lab^*nch

A: hue B
 LCH*Ma: 45 72 253
 olv*Ma: 0.0 0.49 1.0
 triangle lightness



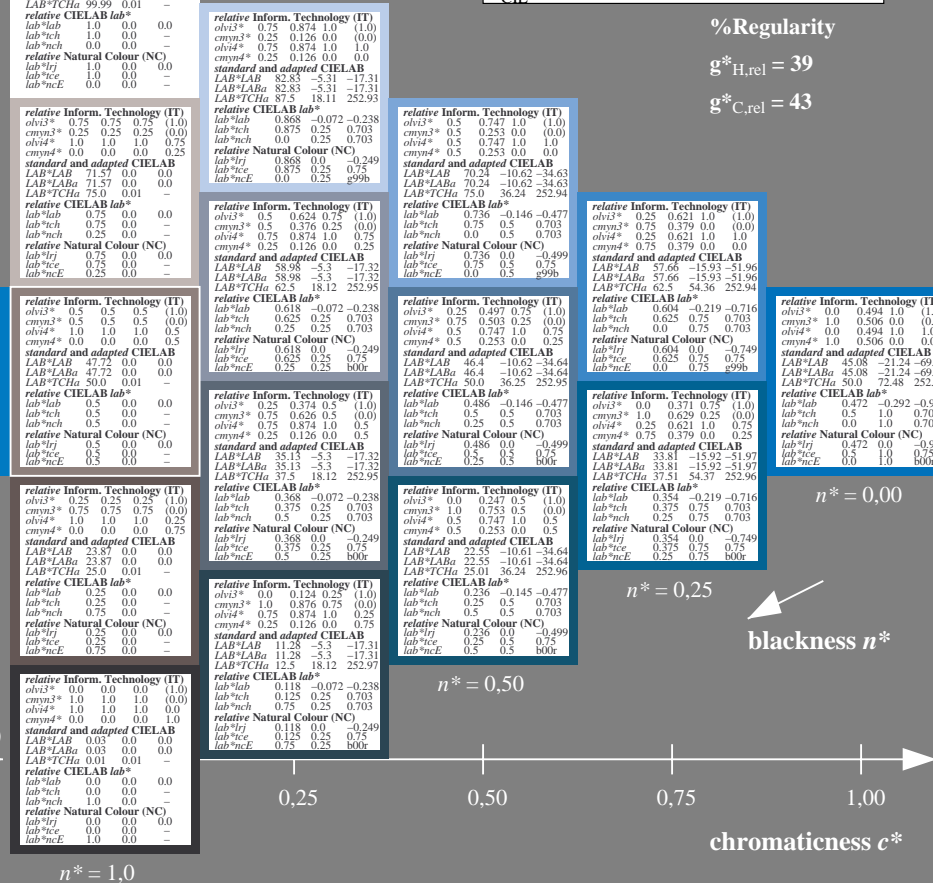
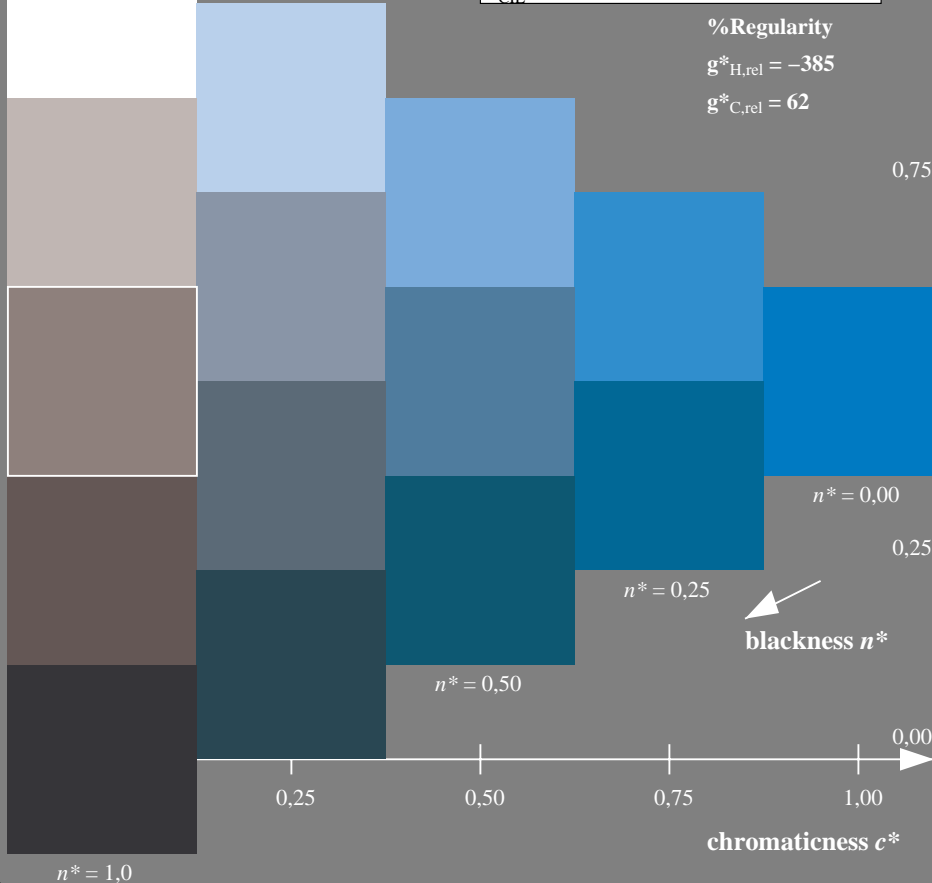
TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	74.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	47.79	61.74	42.56	74.99	35
J _{CIE}	83.82	7.06	70.78	71.13	84
G _{CIE}	49.0	-35.95	4.34	36.22	173
B _{CIE}	25.14	-17.24	-56.24	58.84	253

%Regularity

$g^*_{H,rel} = 39$

$g^*_{C,rel} = 43$



SE400-7, 5 step scales for constant CIELAB hue 252/360 = 0.7 (left)

5 step scales for constant CIELAB hue 253/360 = 0.703 (right)

BAM-test chart SE40; Colorimetric systems ORS18 & TLS00
 A: 5 step colour scales and coordinate data for 10 hues

input: $cmY0^* setcmYcolor$
 output: no change compared to input

See for similar files: <http://www.ps.bam.de/SE40/>
 Technical information: <http://www.ps.bam.de> Version 2.1, io=0,0

BAM registration: 20060101-SE40/10L/L40E09NP.PS/.PDF
 application for evaluation and measurement of printer or monitor systems
 BAM material: code=rh4da
 SE400 Form: 10/10/05; Serie: 1/1, Page: 10 Page count: 10