

**Input: Colorimetric Offset Reflective System ORS18**

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

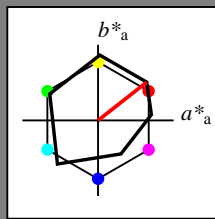
$lab^*tch$  and  $lab^*nch$

A: hue O

LCH\*Ma: 48 82 38

olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 96$   
% Regularity  
 $g^*_{H,rel} = -385$   
 $g^*_{C,rel} = 62$

**Output: Colorimetric Television Luminous System TLS00**

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

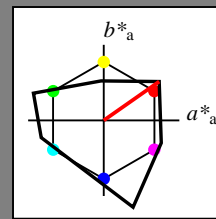
$lab^*tch$  and  $lab^*nch$

A: hue O

LCH\*Ma: 66 90 35

olv\*Ma: 1.0 0.0 0.0

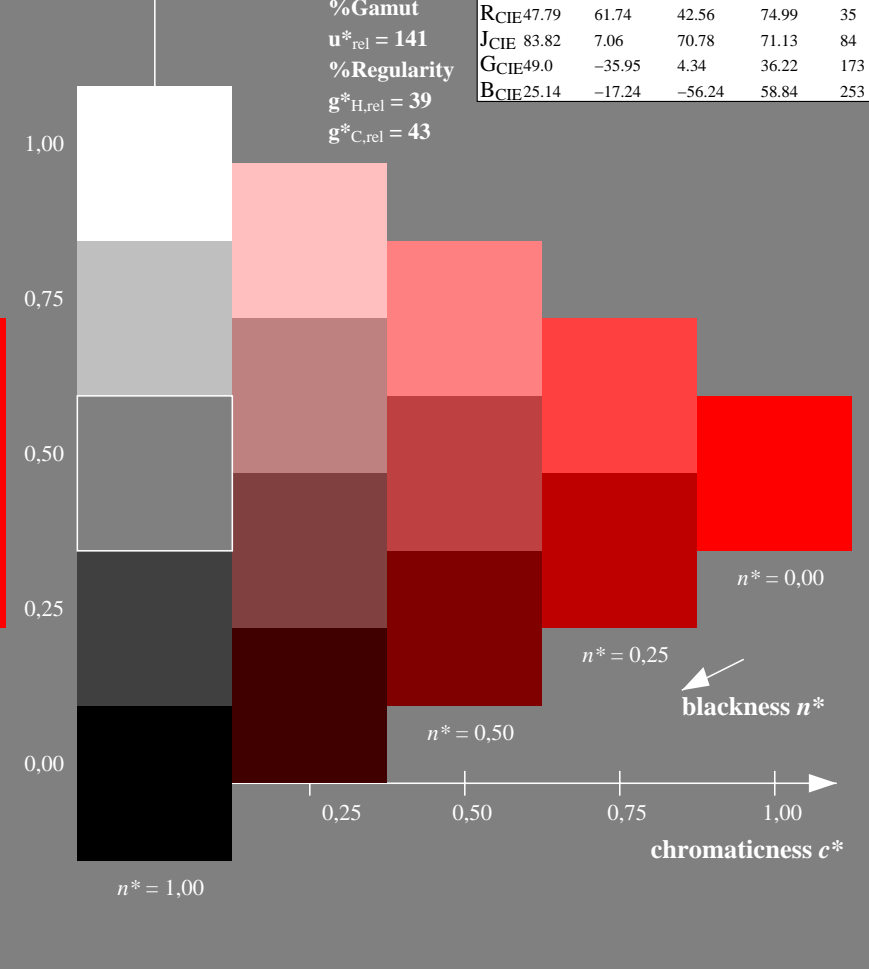
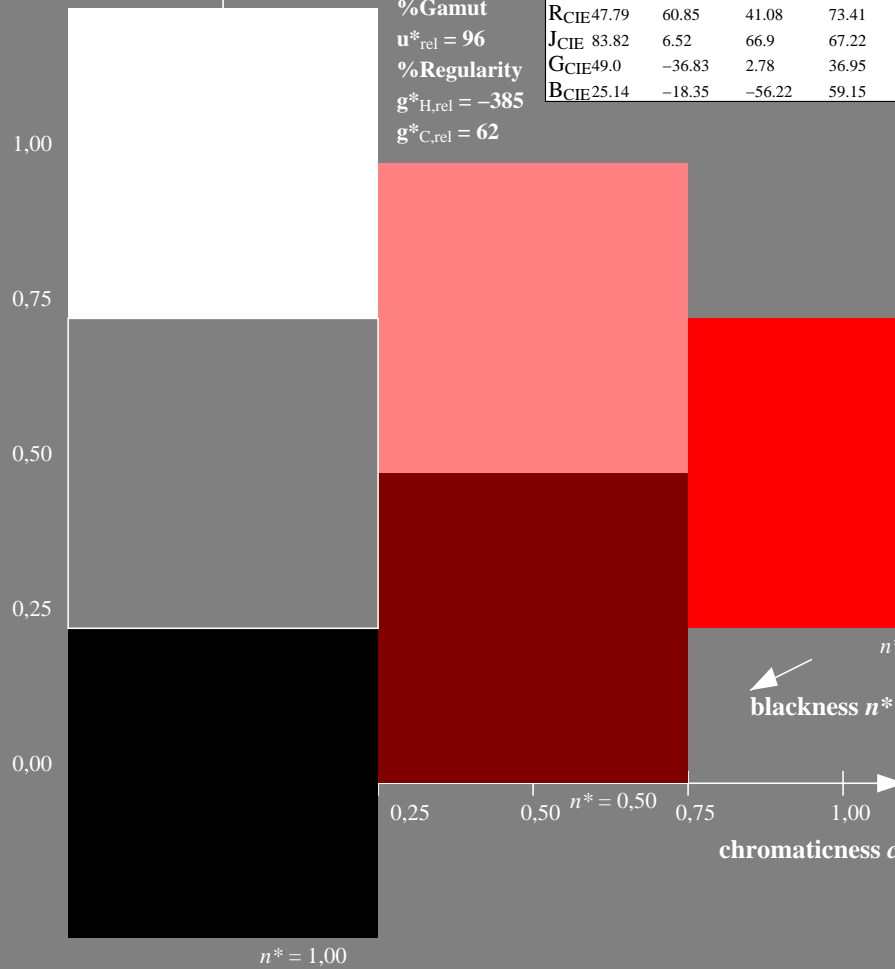
triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 141$   
% Regularity  
 $g^*_{H,rel} = 39$   
 $g^*_{C,rel} = 43$



RE800-7, 3 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 RE80; Colorimetric systems ORS18 & ORS18

A: 3 and 5 step colour scales for 10 hues

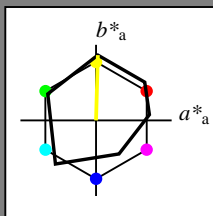
input:  $olv^* setrgbcolor$

output: Startup (S) data dependend

**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  $t^*$



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

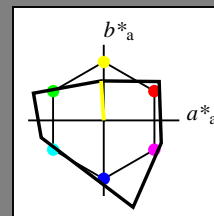
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	47.94	64.42	50.58	81.9	38
Y <sub>Ma</sub>	92.62	2.41	86.36	86.39	88
L <sub>Ma</sub>	50.9	-63.82	35.02	72.81	151
C <sub>Ma</sub>	51.25	-53.68	-57.69	78.82	227
V <sub>Ma</sub>	25.72	30.34	-44.37	53.76	304
M <sub>Ma</sub>	56.25	70.59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

% Gamut  
 $u^*_{rel} = 96$   
 % Regularity  
 $g^*_{H,rel} = -385$   
 $g^*_{C,rel} = 62$

**Output: Colorimetric Television Luminous System TLS00**

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

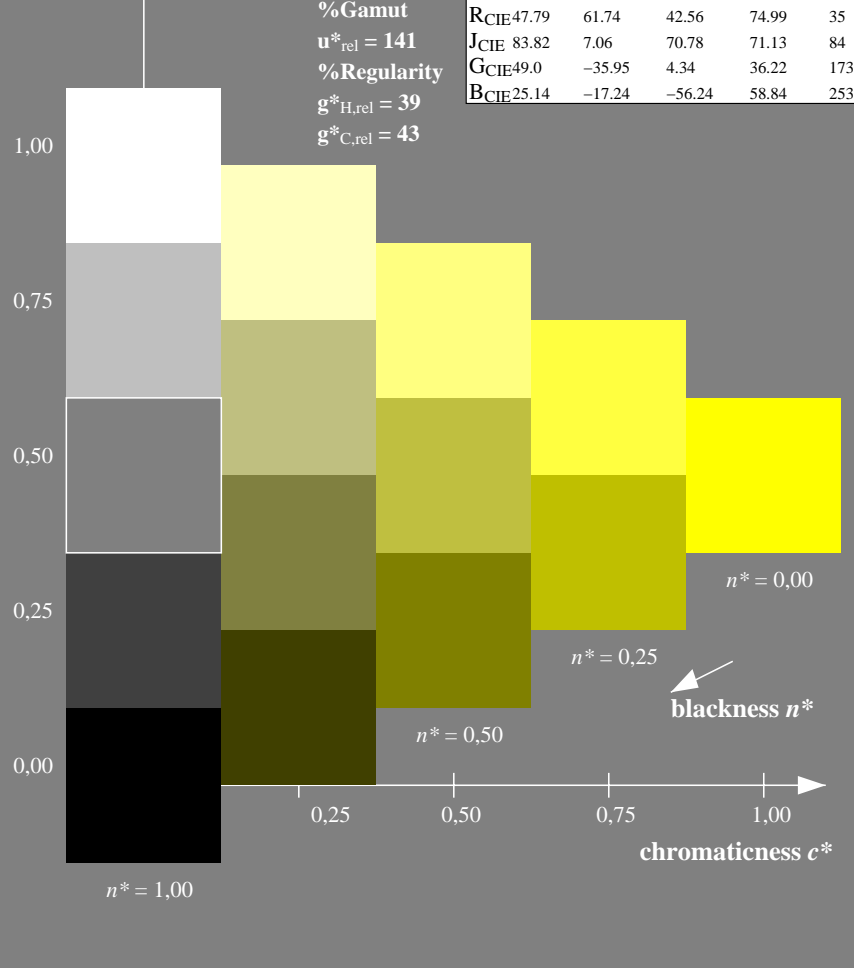
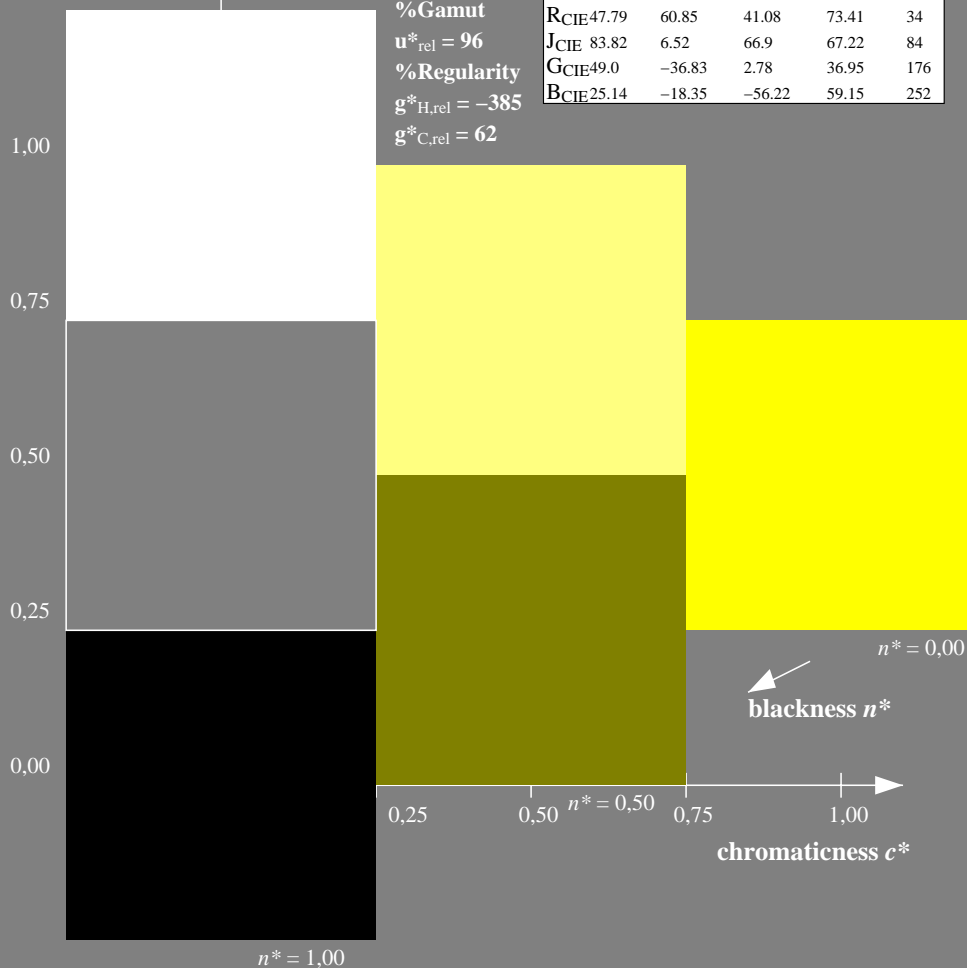
A: hue Y  
 LCH\*Ma: 95 52 94  
 olv\*Ma: 1.0 1.0 0.0  
 triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 141$   
 % Regularity  
 $g^*_{H,rel} = 39$   
 $g^*_{C,rel} = 43$



RE800-7, 3 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 RE80; Colorimetric systems ORS18 & ORS18  
 A: 3 and 5 step colour scales for 10 hues

input:  $olv^* setrgbcolor$   
 output: Startup (S) data dependend

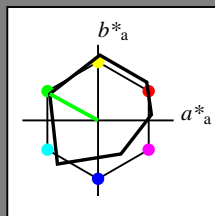
See for similar files: <http://www.ps.bam.de/RE80/>  
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM registration: 20060101-RE80/10L/L80E01SP.PS/.PDF BAM material: code=rh4ta  
 application for evaluation and measurement of printer or monitor systems  
 /RE80 Form: 2/10, Serie: 1/1, Page: 2 Page count: 2

**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  $t^*$



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

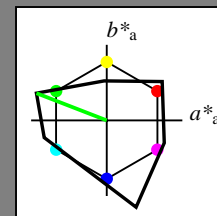
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	47.94	64.42	50.58	81.9	38
Y <sub>Ma</sub>	92.62	2.41	86.36	86.39	88
L <sub>Ma</sub>	50.9	-63.82	35.02	72.81	151
C <sub>Ma</sub>	51.25	-53.68	-57.69	78.82	227
V <sub>Ma</sub>	25.72	30.34	-44.37	53.76	304
M <sub>Ma</sub>	56.25	70.59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

% Gamut  
 $u^*_{rel} = 96$   
 % 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  $lab^*nch$

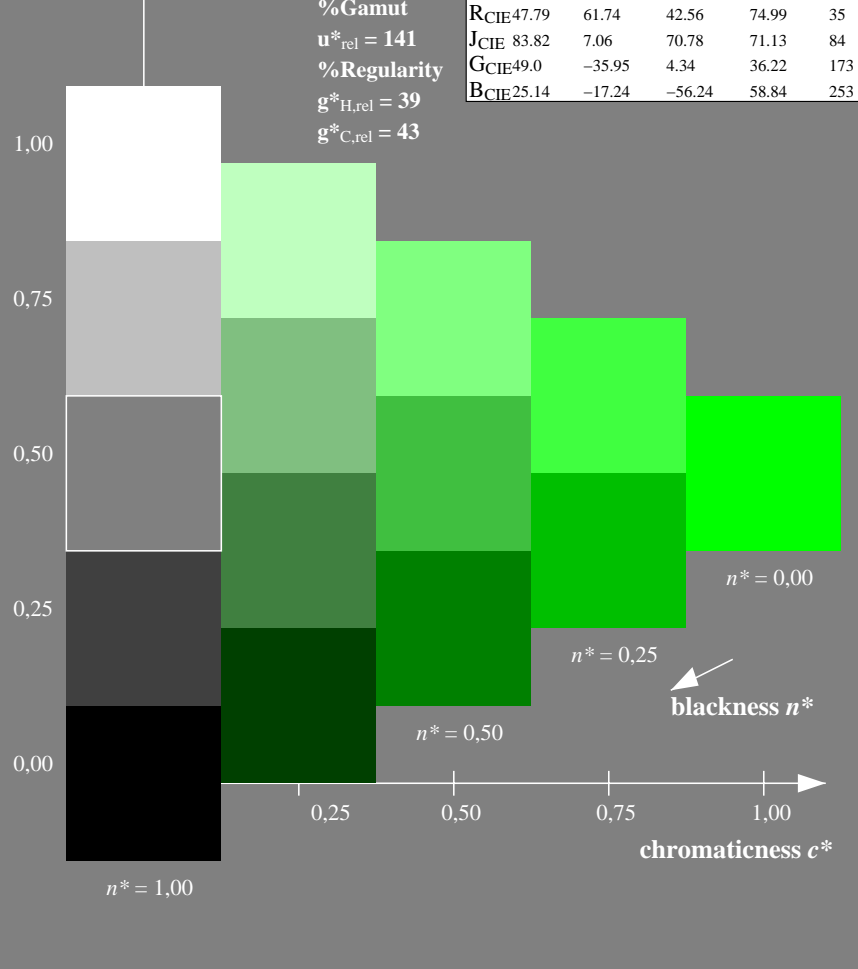
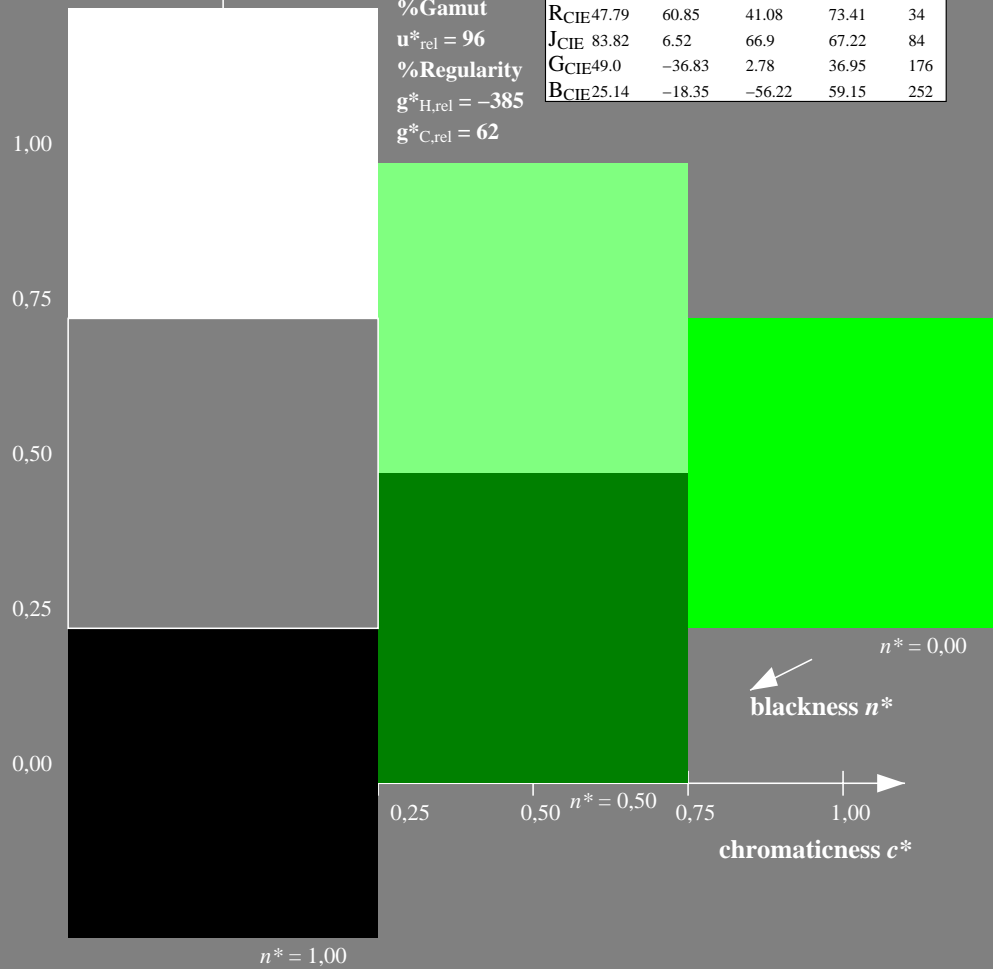
A: hue L  
 LCH\*Ma: 77 100 159  
 olv\*Ma: 0.0 1.0 0.0  
 triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 141$   
 % Regularity  
 $g^*_{H,rel} = 39$   
 $g^*_{C,rel} = 43$



RE800-7, 3 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 RE80; Colorimetric systems ORS18 & ORS18 input:  $olv^* setrgbcolor$   
 A: 3 and 5 step colour scales for 10 hues output: Startup (S) data dependend

See for similar files: <http://www.ps.bam.de/RE80/>  
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM registration: 20060101-RE80/10L/L80E02SP.PS/.PDF BAM material: code=rh4ta  
 application for evaluation and measurement of printer or monitor systems  
 /RE80/ Form: 3/10, Serie: 1/1, Page: 3 Page count: 3

**Input: Colorimetric Offset Reflective System ORS18**

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

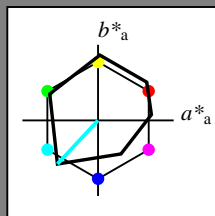
$lab^*tch$  and  $lab^*nch$

A: hue C

LCH\*Ma: 51 79 227

olv\*Ma: 0.0 1.0 1.0

triangle lightness  $t^*$



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

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

%Gamut  
 $u^*_{rel} = 96$   
%Regularity  
 $g^*_{H,rel} = -385$   
 $g^*_{C,rel} = 62$

**Output: Colorimetric Television Luminous System TLS00**

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

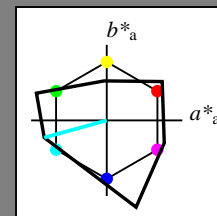
$lab^*tch$  and  $lab^*nch$

A: hue C

LCH\*Ma: 78 86 195

olv\*Ma: 0.0 1.0 1.0

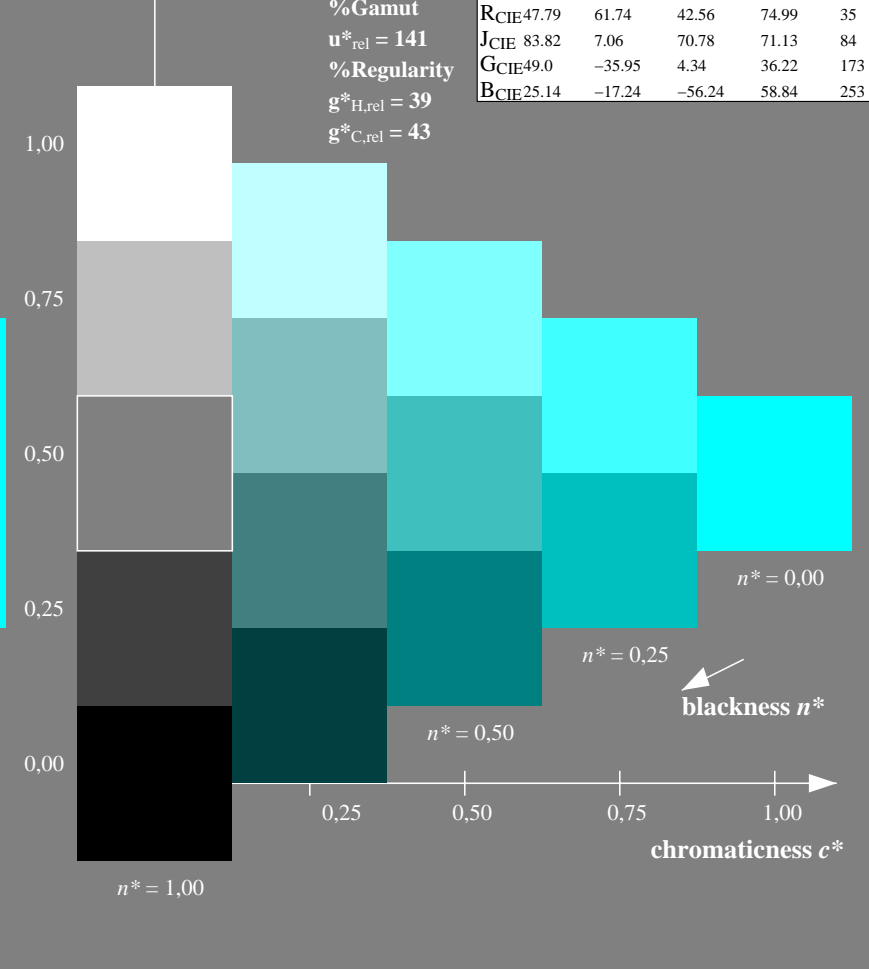
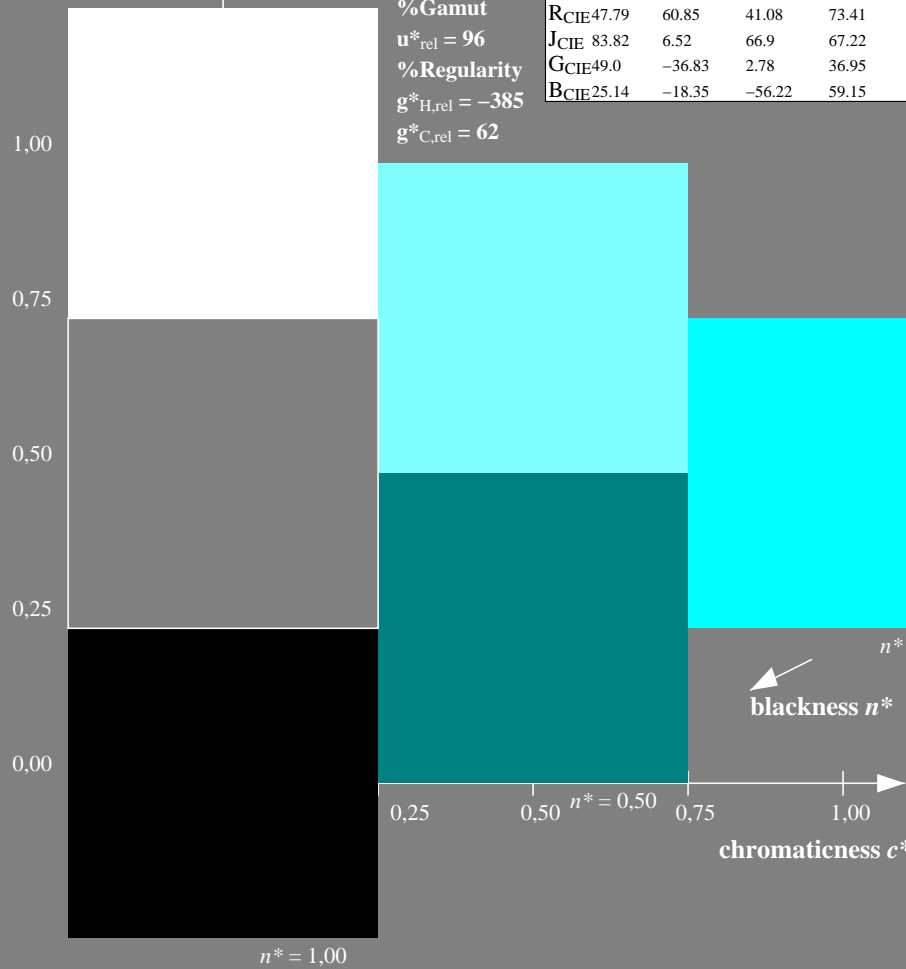
triangle lightness  $t^*$



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

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

%Gamut  
 $u^*_{rel} = 141$   
%Regularity  
 $g^*_{H,rel} = 39$   
 $g^*_{C,rel} = 43$



RE800-7, 3 step scales for constant CIELAB hue 227/360 = 0.631 (left)

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

BAM-test chart RE80; Colorimetric systems ORS18 & ORS18 input:  $olv^* setrgbcolor$

A: 3 and 5 step colour scales for 10 hues

output: Startup (S) data depend

**Input: Colorimetric Offset Reflective System ORS18**

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

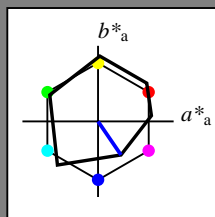
$lab^*tch$  and  $lab^*nch$

A: hue V

LCH\*Ma: 26 54 304

olv\*Ma: 0.0 0.0 1.0

triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 96$   
% Regularity  
 $g^*_{H,rel} = -385$   
 $g^*_{C,rel} = 62$

**Output: Colorimetric Television Luminous System TLS00**

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

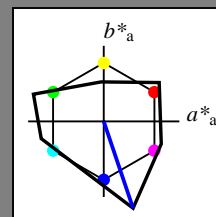
$lab^*tch$  and  $lab^*nch$

A: hue V

LCH\*Ma: 13 121 289

olv\*Ma: 0.0 0.0 1.0

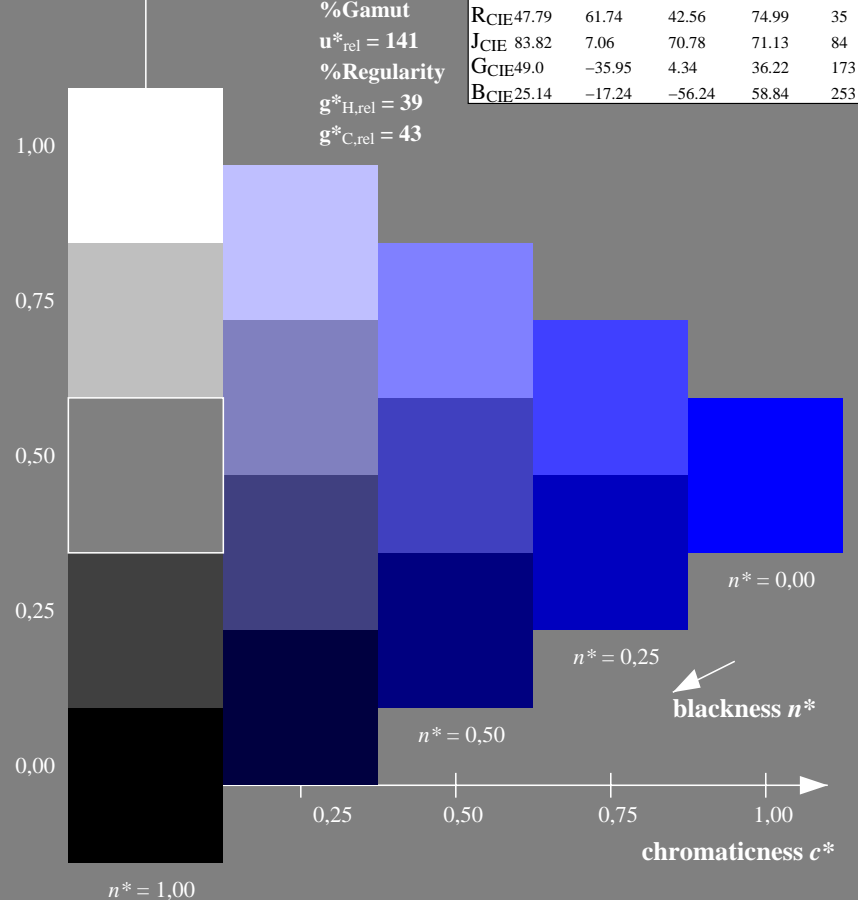
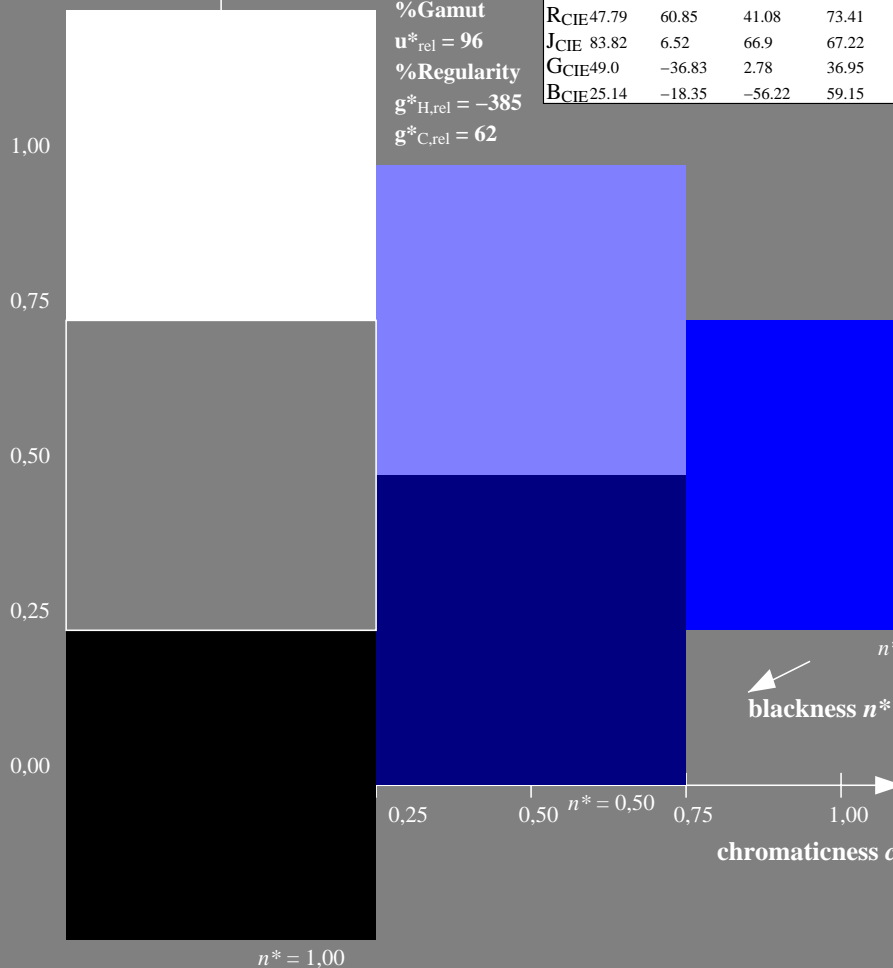
triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 141$   
% Regularity  
 $g^*_{H,rel} = 39$   
 $g^*_{C,rel} = 43$



RE800-7, 3 step scales for constant CIELAB hue 304/360 = 0.845 (left)

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

BAM-test chart RE80; Colorimetric systems ORS18 & ORS18

A: 3 and 5 step colour scales for 10 hues

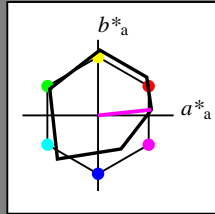
input:  $olv^* setrgbcolor$

output: Startup (S) data dependend

**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  $t^*$



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

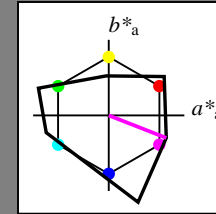
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	47.94	64.42	50.58	81.9	38
Y <sub>Ma</sub>	92.62	2.41	86.36	86.39	88
L <sub>Ma</sub>	50.9	-63.82	35.02	72.81	151
C <sub>Ma</sub>	51.25	-53.68	-57.69	78.82	227
V <sub>Ma</sub>	25.72	30.34	-44.37	53.76	304
M <sub>Ma</sub>	56.25	70.59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

% Gamut  
 $u^*_{rel} = 96$   
 % 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  $lab^*nch$

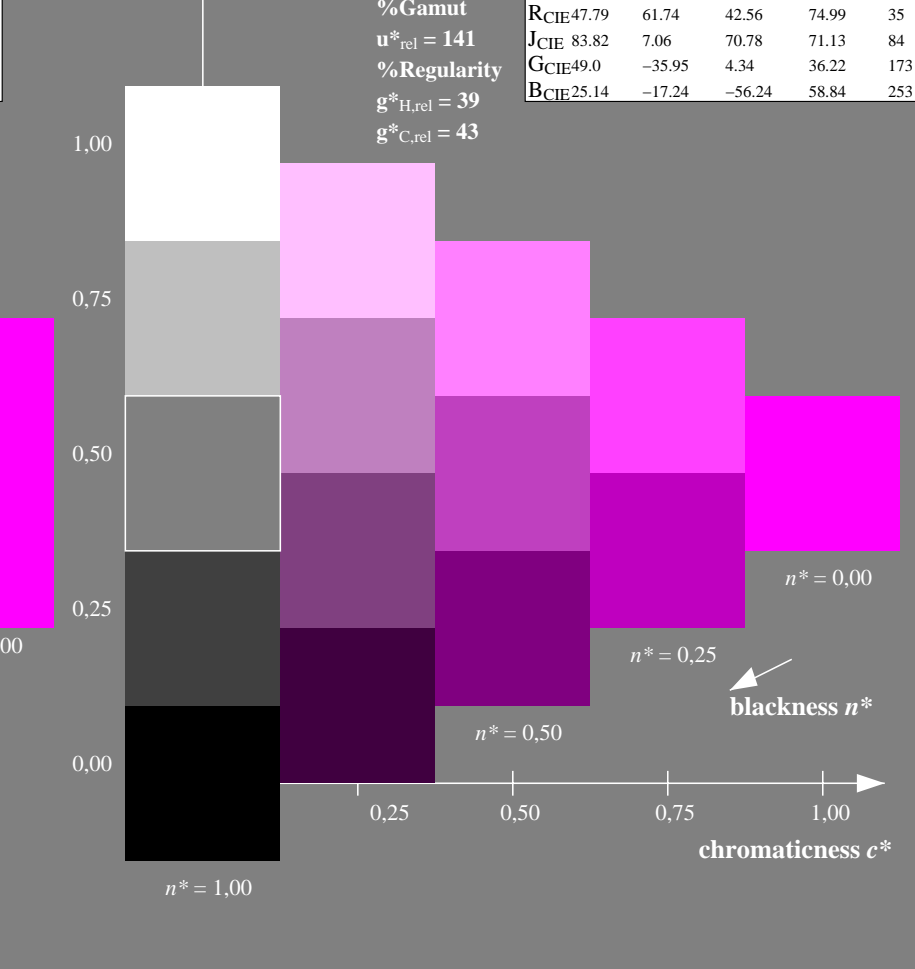
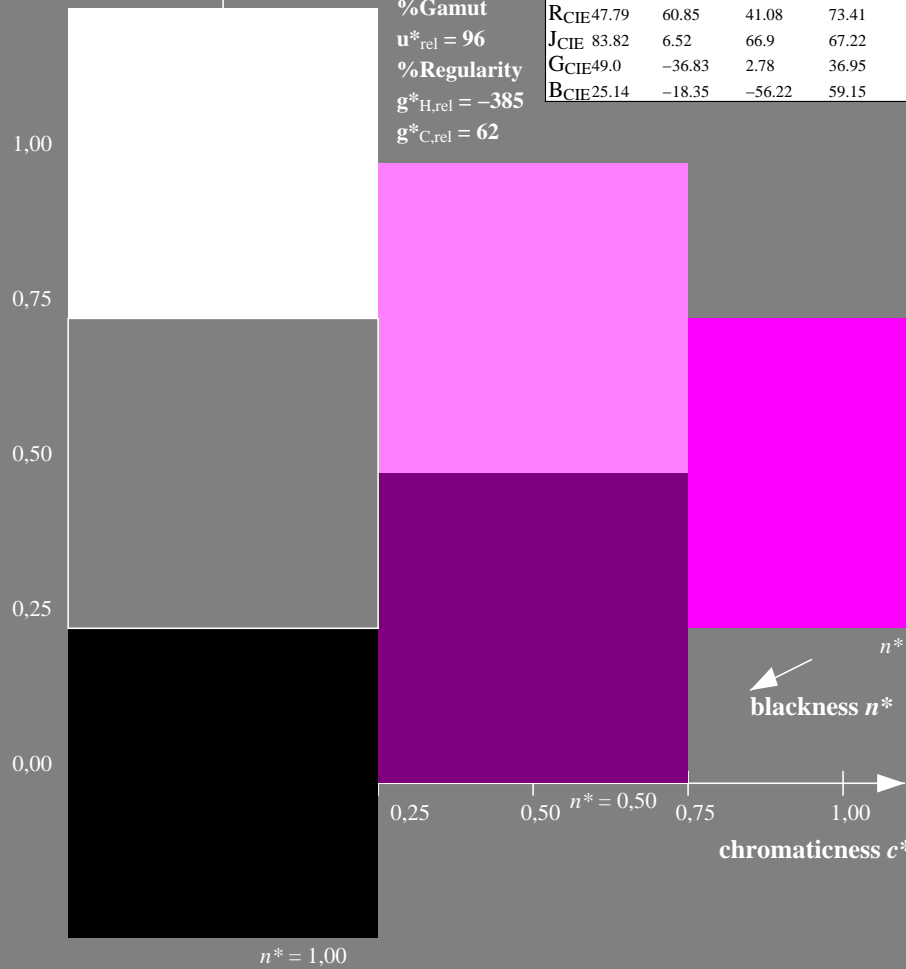
A: hue M  
 LCH\*Ma: 67 82 339  
 olv\*Ma: 1.0 0.0 1.0  
 triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 141$   
 % Regularity  
 $g^*_{H,rel} = 39$   
 $g^*_{C,rel} = 43$



RE800-7, 3 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 RE80; Colorimetric systems ORS18 & ORS18 input:  $olv^* setrgbcolor$   
 A: 3 and 5 step colour scales for 10 hues output: Startup (S) data dependend

See for similar files: <http://www.ps.bam.de/RE80/>  
 Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM registration: 20060101-RE80/10L/L80E05SP.PS/.PDF BAM material: code=rhadata  
 application for evaluation and measurement of printer or monitor systems  
 /RE80 Form: 6/10, Serie: 1/1, Page: 6 Page count: 6

**Input: Colorimetric Offset Reflective System ORS18**

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

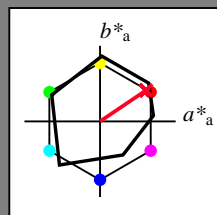
$lab^*tch$  and  $lab^*nch$

A: hue R

LCH\*Ma: 49 79 34

olv\*Ma: 1.0 0.0 0.15

triangle lightness  $l^*$



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

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

% Gamut  
 $u^*_{rel} = 96$   
% Regularity  
 $g^*_{H,rel} = -385$   
 $g^*_{C,rel} = 62$

**Output: Colorimetric Television Luminous System TLS00**

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

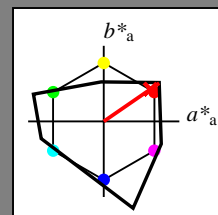
$lab^*tch$  and  $lab^*nch$

A: hue R

LCH\*Ma: 66 89 35

olv\*Ma: 1.0 0.0 0.01

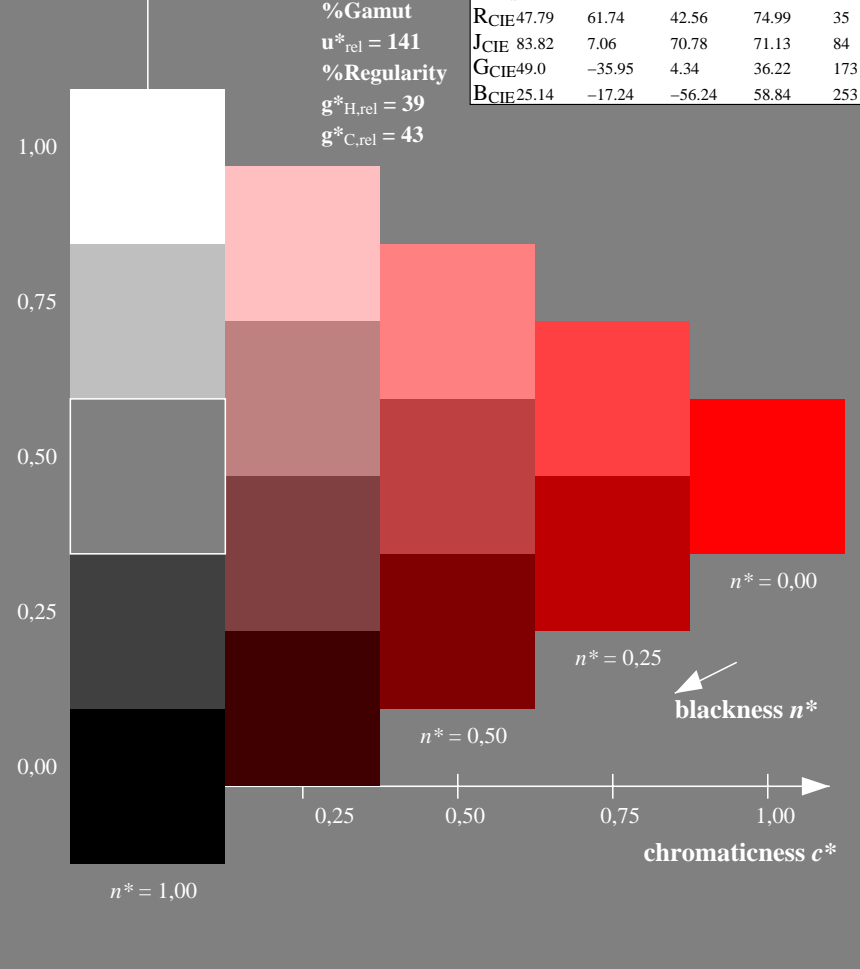
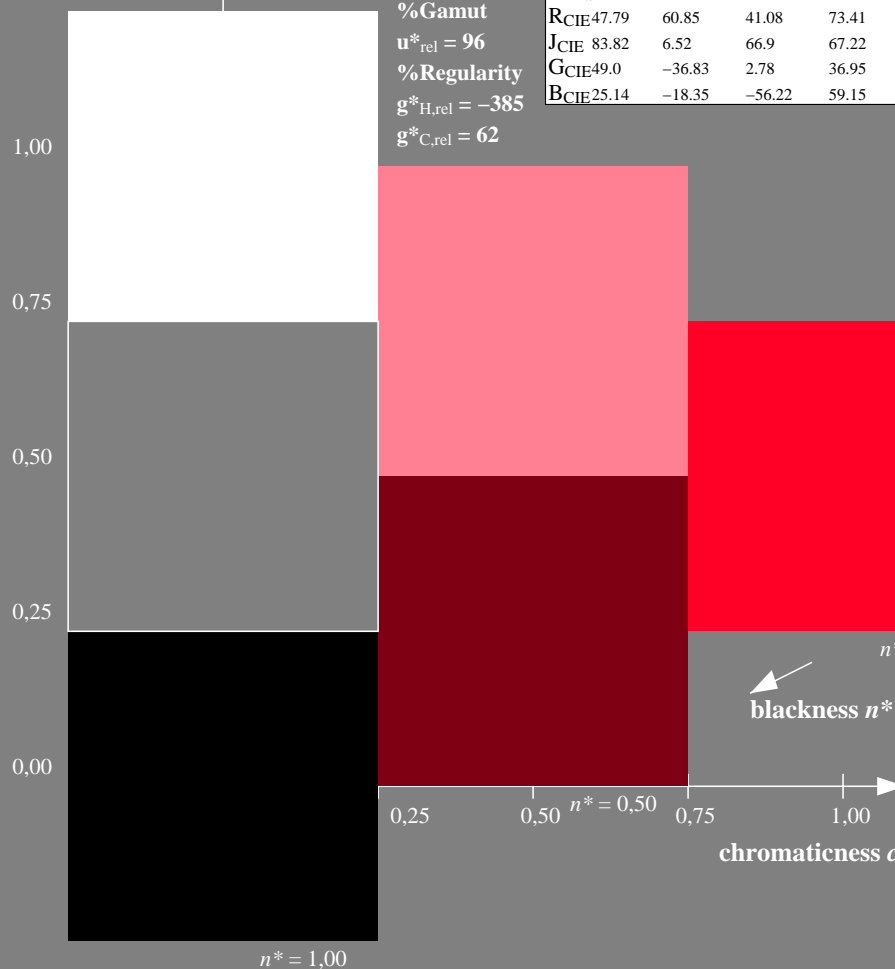
triangle lightness  $l^*$



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

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

% Gamut  
 $u^*_{rel} = 141$   
% Regularity  
 $g^*_{H,rel} = 39$   
 $g^*_{C,rel} = 43$



RE800-7, 3 step scales for constant CIELAB hue 34/360 = 0.095 (left)

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

BAM-test chart RE80; Colorimetric systems ORS18 & ORS18

A: 3 and 5 step colour scales for 10 hues

input:  $olv^* setrgbcolor$

output: Startup (S) data dependend

**Input: Colorimetric Offset Reflective System ORS18**

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

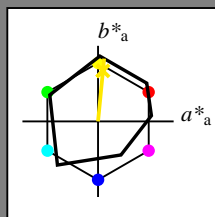
$lab^*tch$  and  $lab^*nch$

A: hue J

LCH\*Ma: 89 83 84

olv\*Ma: 1.0 0.91 0.0

triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 96$   
% Regularity  
 $g^*_{H,rel} = -385$   
 $g^*_{C,rel} = 62$

**Output: Colorimetric Television Luminous System TLS00**

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

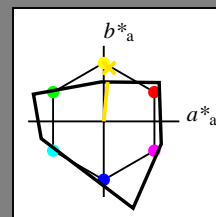
$lab^*tch$  and  $lab^*nch$

A: hue J

LCH\*Ma: 91 52 84

olv\*Ma: 1.0 0.89 0.0

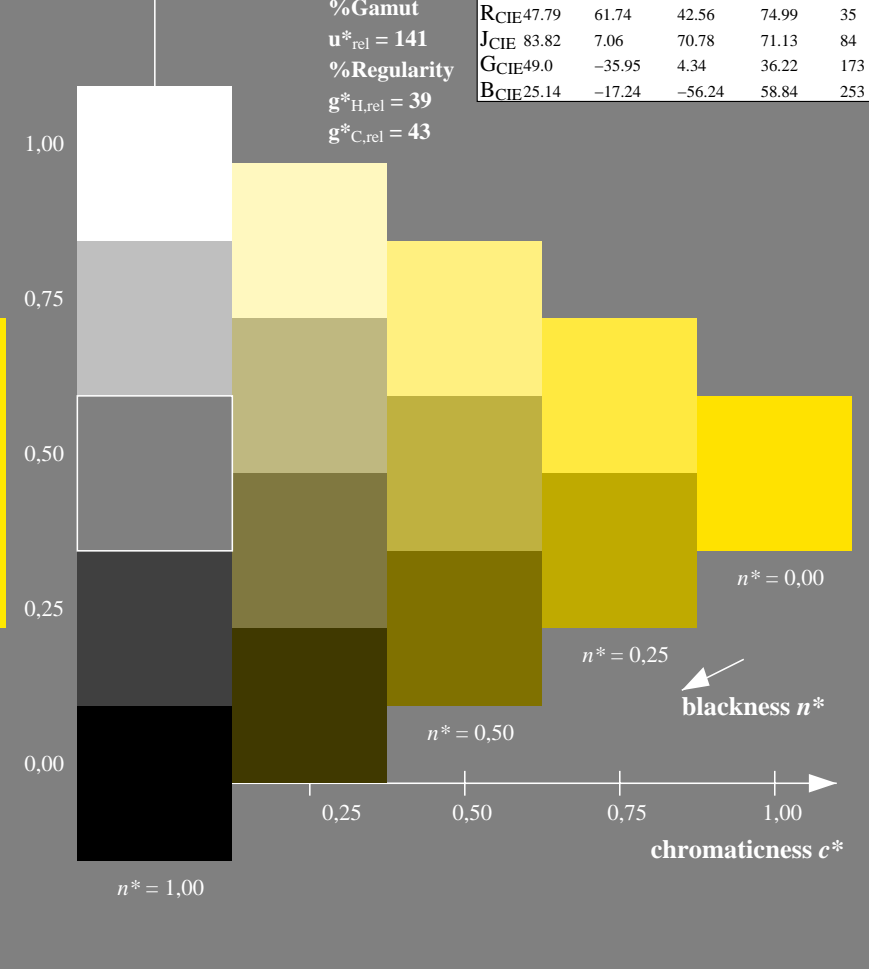
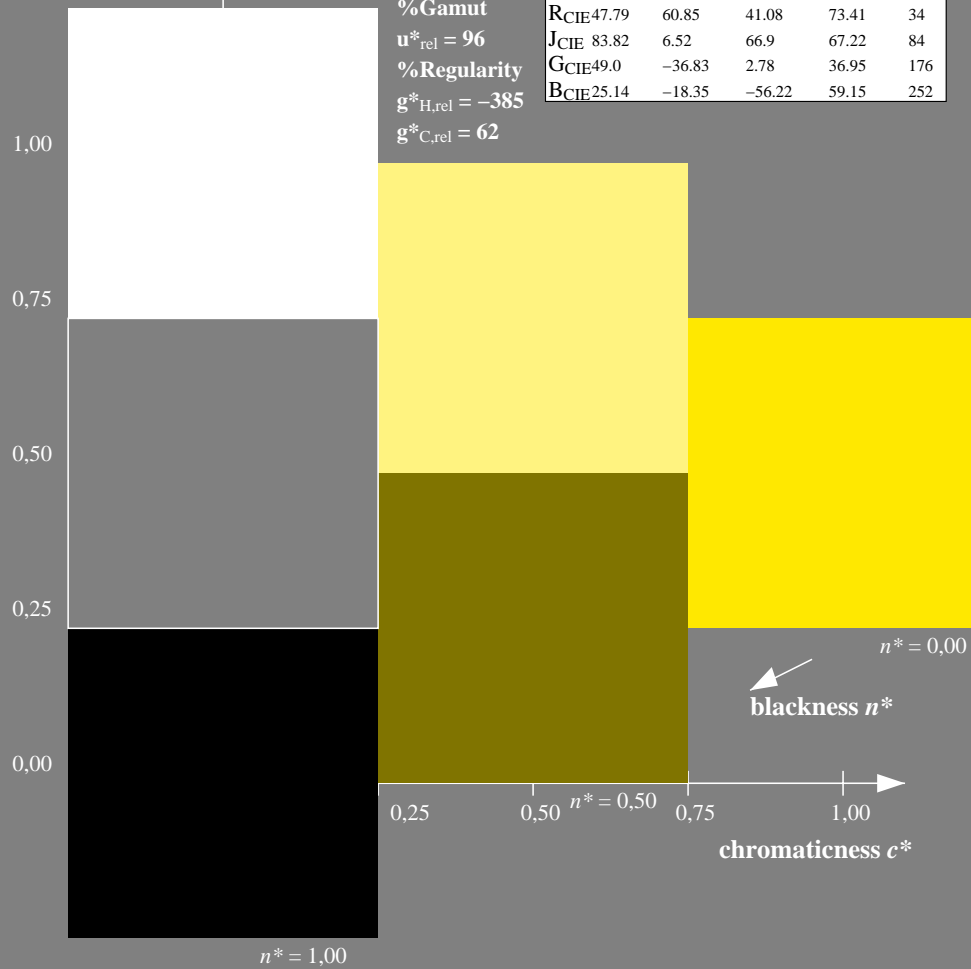
triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 141$   
% Regularity  
 $g^*_{H,rel} = 39$   
 $g^*_{C,rel} = 43$



RE800-7, 3 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 RE80; Colorimetric systems ORS18 & ORS18 input:  $olv^* setrgbcolor$   
A: 3 and 5 step colour scales for 10 hues output: Startup (S) data dependend

BAM registration: 20060101-RE80/10L/L80E07SP.PS/.PDF BAM material: code=rhadata  
application for evaluation and measurement of printer or monitor systems  
/RE80 Form: 8/10, Serie: 1/1, Page: 8 Page count: 8

See for similar files: <http://www.ps.bam.de/RE80/>  
Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1?



**Input: Colorimetric Offset Reflective System ORS18**

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

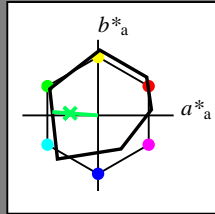
$lab^*tch$  and  $lab^*nch$

A: hue G

LCH\*Ma: 51 61 176

olv\*Ma: 0.0 1.0 0.33

triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 96$   
% Regularity  
 $g^*_{H,rel} = -385$   
 $g^*_{C,rel} = 62$

**Output: Colorimetric Television Luminous System TLS00**

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

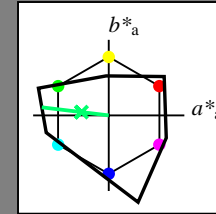
$lab^*tch$  and  $lab^*nch$

A: hue G

LCH\*Ma: 78 89 173

olv\*Ma: 0.0 1.0 0.43

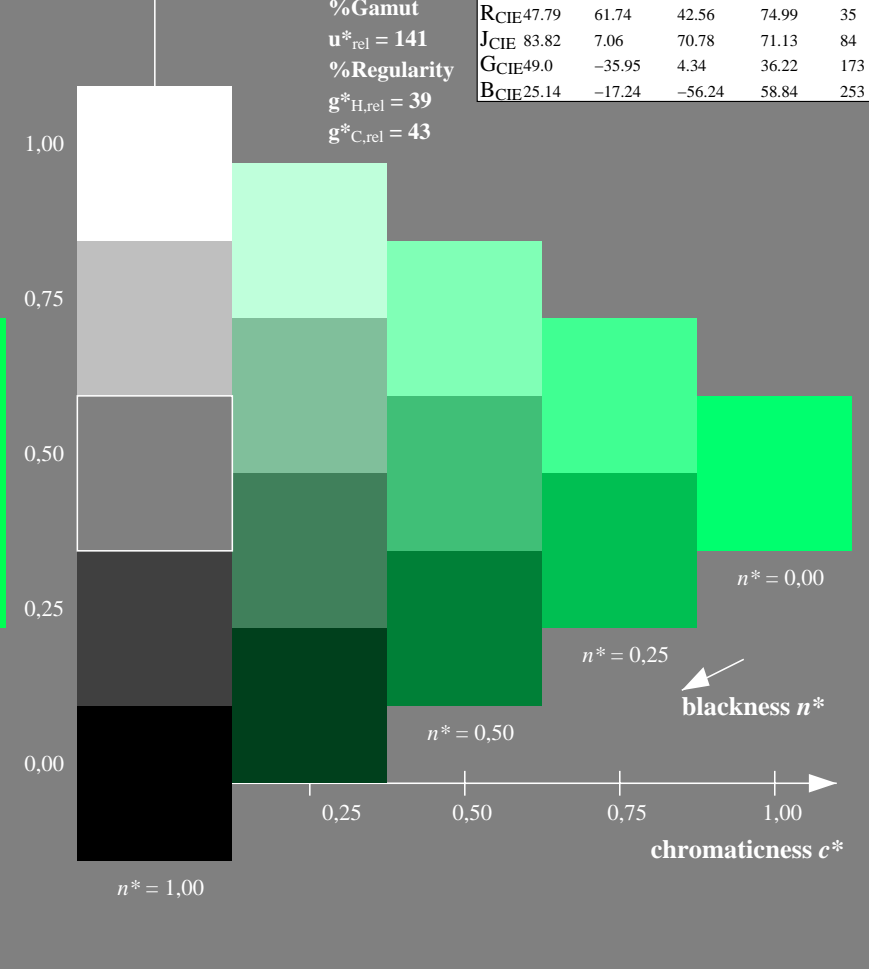
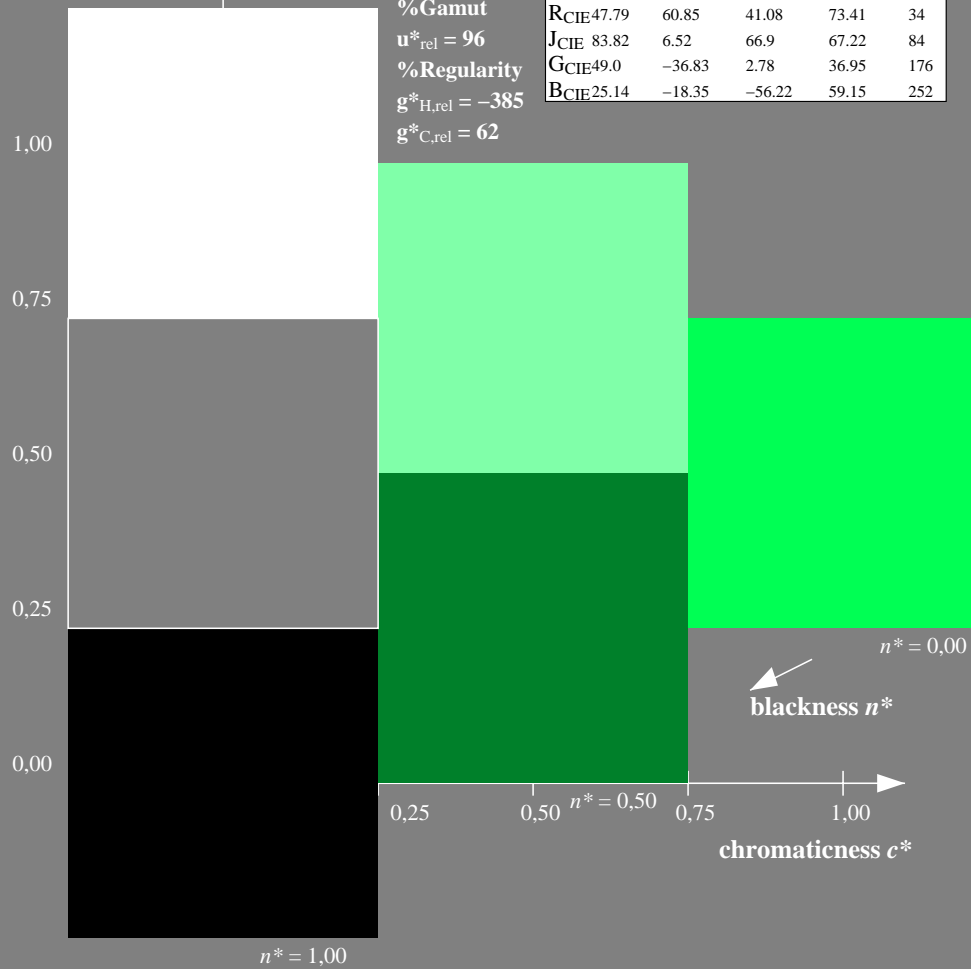
triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 141$   
% Regularity  
 $g^*_{H,rel} = 39$   
 $g^*_{C,rel} = 43$



RE800-7, 3 step scales for constant CIELAB hue 176/360 = 0.488 (left)

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

BAM-test chart RE80; Colorimetric systems ORS18 & ORS18 input:  $olv^* setrgbcolor$

A: 3 and 5 step colour scales for 10 hues

output: Startup (S) data dependend

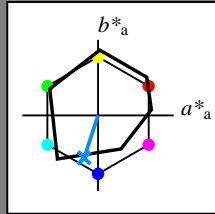
BAM registration: 20060101-RE80/10L/L80E08SP.PS/.PDF BAM material: code=rh4ta  
application for evaluation and measurement of printer or monitor systems  
/RE80 Form: 9/10, Serie: 1/1, Page: 9 Page count: 9

See for similar files: <http://www.ps.bam.de/RE80/>  
Technical information: <http://www.ps.bam.de/RE80/> Version 2.1, io=1,1?

**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  $t^*$



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

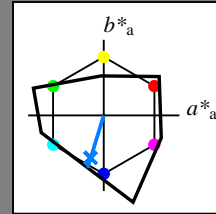
	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
O <sub>Ma</sub>	47.94	64.42	50.58	81.9	38
Y <sub>Ma</sub>	92.62	2.41	86.36	86.39	88
L <sub>Ma</sub>	50.9	-63.82	35.02	72.81	151
C <sub>Ma</sub>	51.25	-53.68	-57.69	78.82	227
V <sub>Ma</sub>	25.72	30.34	-44.37	53.76	304
M <sub>Ma</sub>	56.25	70.59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

% Gamut  
 $u^*_{rel} = 96$   
 % 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  $lab^*nch$

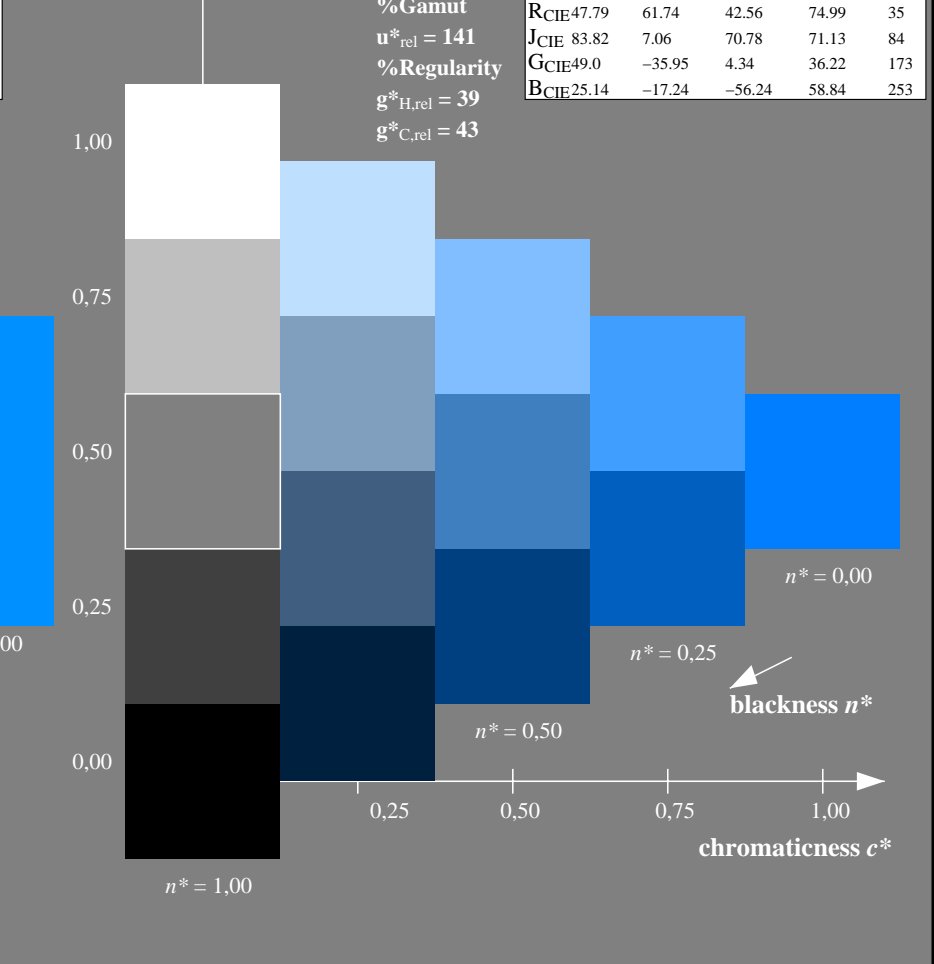
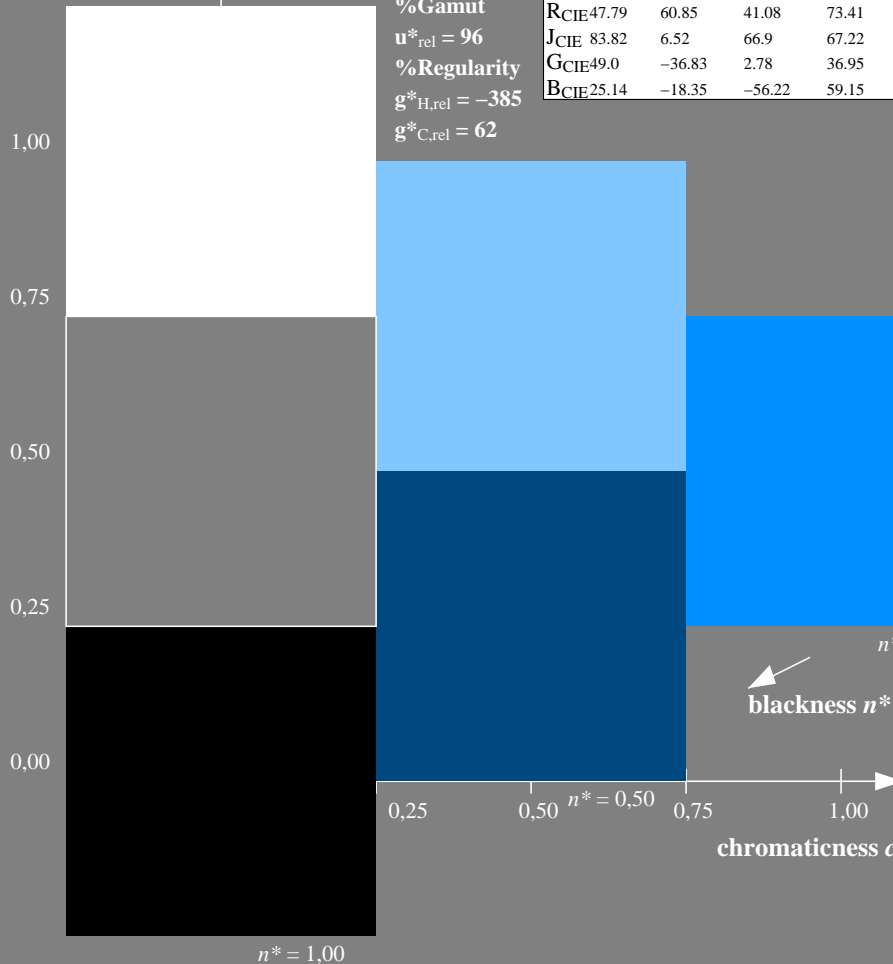
A: hue B  
 LCH\*Ma: 45 72 253  
 olv\*Ma: 0.0 0.49 1.0  
 triangle lightness  $t^*$



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

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

% Gamut  
 $u^*_{rel} = 141$   
 % Regularity  
 $g^*_{H,rel} = 39$   
 $g^*_{C,rel} = 43$



RE800-7, 3 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 RE80; Colorimetric systems ORS18 & ORS18  
 A: 3 and 5 step colour scales for 10 hues

input:  $olv^* setrgbcolor$   
 output: Startup (S) data dependend