

Input: Colorimetric Television Luminous System TLS00

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

LAB*LCH, LAB*NCH

D65: hue O

LCH*Ma: 51 100 40

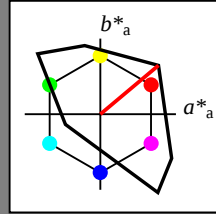
olv*Ma: 1.0 0.0 0.0

CIELAB lightness L^*

%Gamut

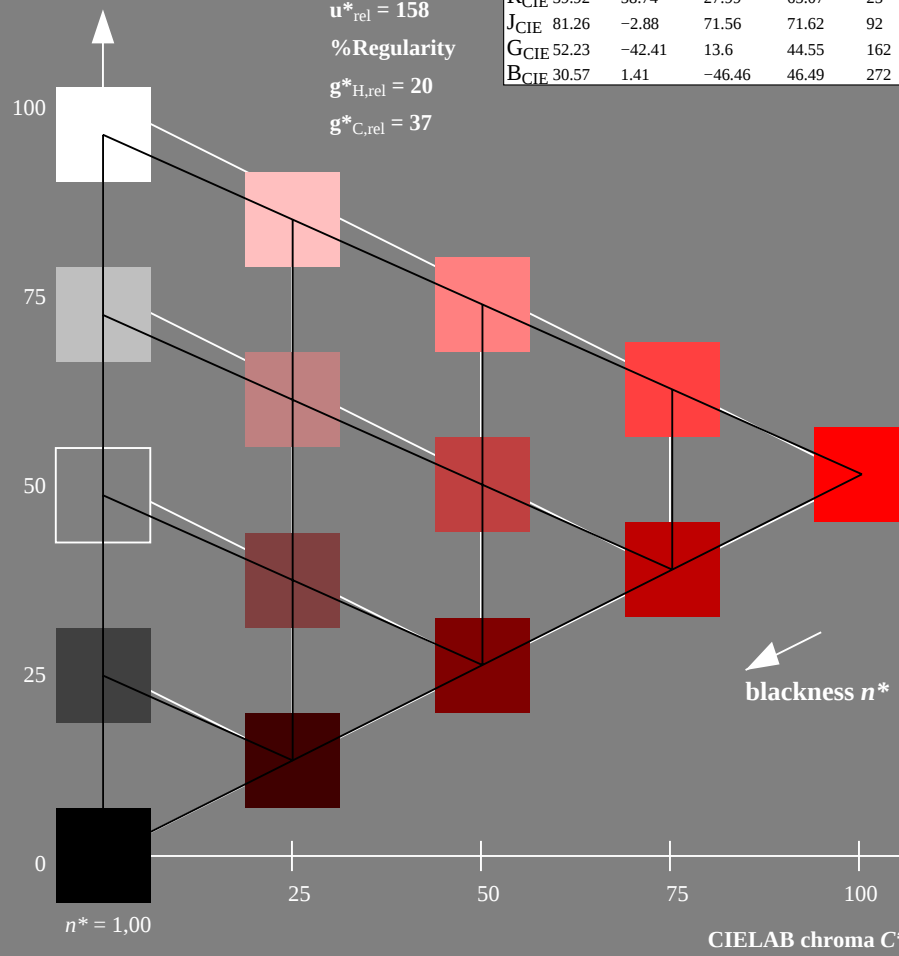
 $u^*_{rel} = 158$

%Regularity

 $g^*_{H,rel} = 20$ $g^*_{C,rel} = 37$ 

TLS00; adapted (a) CIELAB data

	$L^* = L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



NE330-7, 5 step scales for constant CIELAB hue 40/360 = 0.111 (left)



BAM-test chart NE33; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 22/360 = 0.061$

LAB*LCH, LAB*NCH

D65: hue O

LCH*Ma: 76 28 22

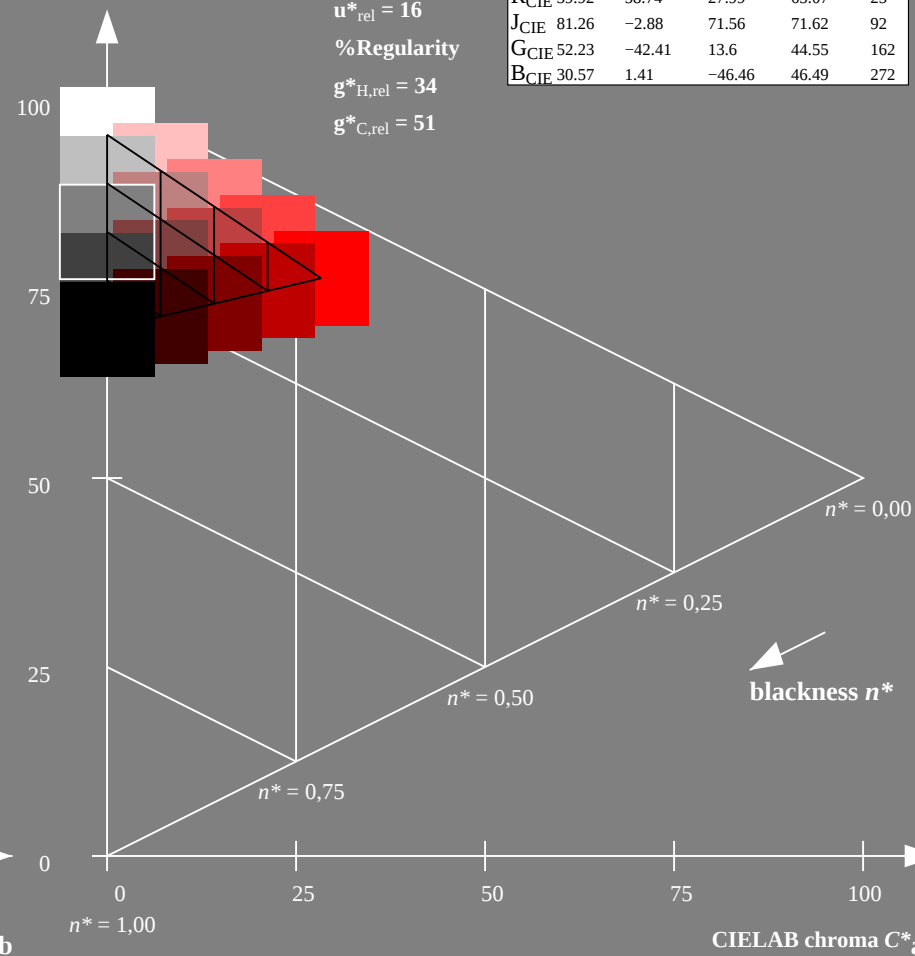
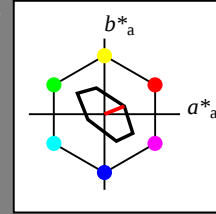
olv*Ma: 1.0 0.0 0.0

CIELAB lightness L^*

%Gamut

 $u^*_{rel} = 16$

%Regularity

 $g^*_{H,rel} = 34$ $g^*_{C,rel} = 51$ 

5 step scales for constant CIELAB hue 22/360 = 0.061 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend



Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab^*h = 103/360 = 0.286$

LAB*LCH, LAB*NCH

D65: hue Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0

CIELAB lightness L^*

%Gamut

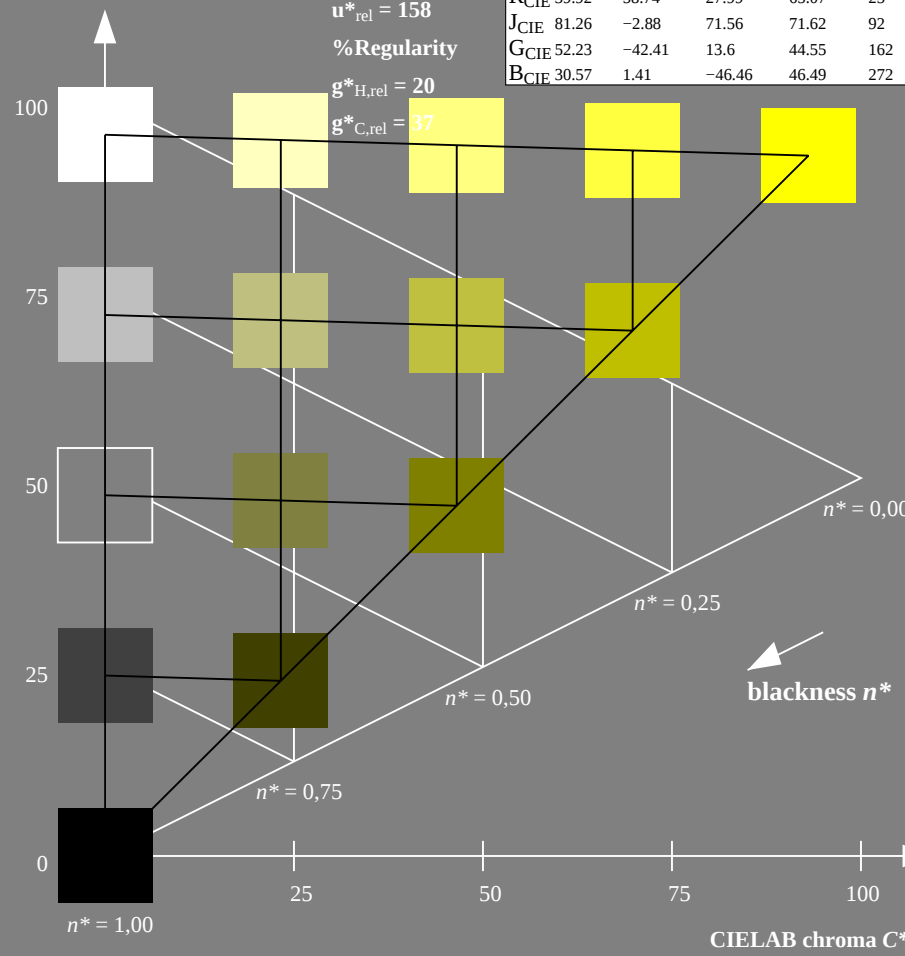
 $u^*_{rel} = 158$

%Regularity

 $g^*_{H,rel} = 20$ $g^*_{C,rel} = 37$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



NE330-7, 5 step scales for constant CIELAB hue 103/360 = 0.286 (left)

BAM-test chart NE33; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab^*h = 107/360 = 0.298$

LAB*LCH, LAB*NCH

D65: hue Y

LCH*Ma: 94 36 107

olv*Ma: 1.0 1.0 0.0

CIELAB lightness L^*

%Gamut

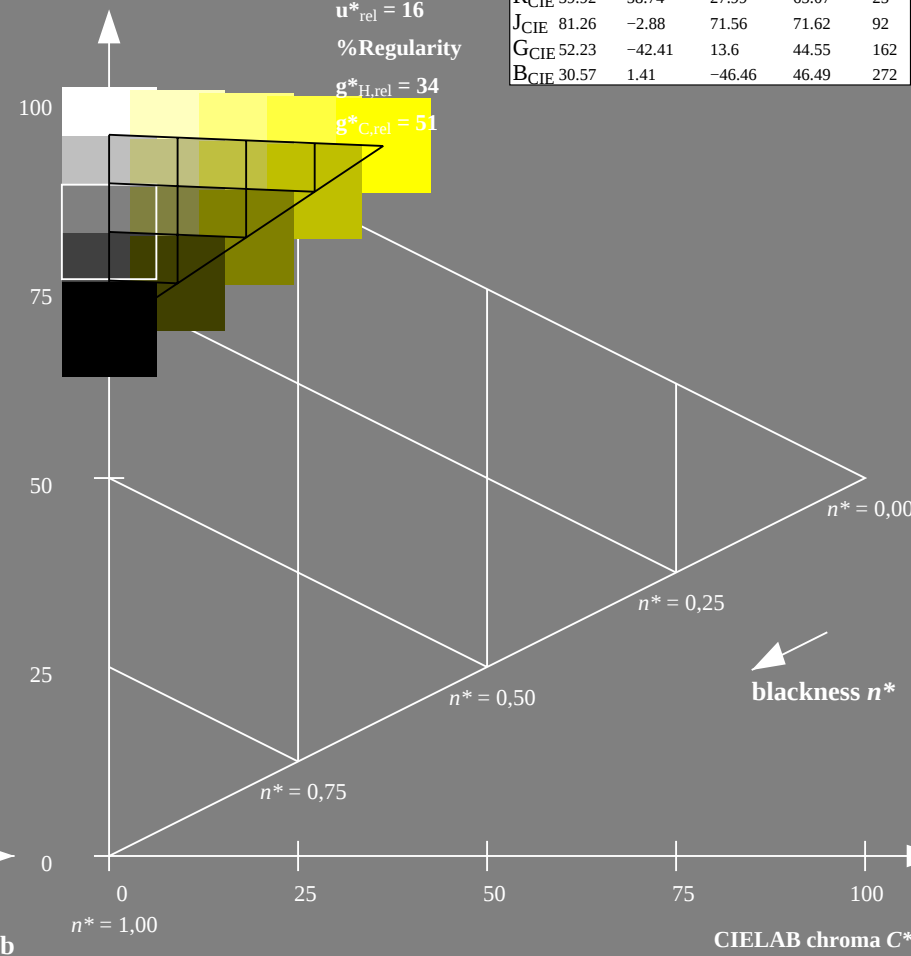
 $u^*_{rel} = 16$

%Regularity

 $g^*_{H,rel} = 34$ $g^*_{C,rel} = 51$

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



5 step scales for constant CIELAB hue 107/360 = 0.298 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 136/360 = 0.378$

LAB*LCH, LAB*NCH

D65: hue L

LCH*Ma: 84 115 136

olv*Ma: 0.0 1.0 0.0

CIE LAB lightness L^*

% Gamut

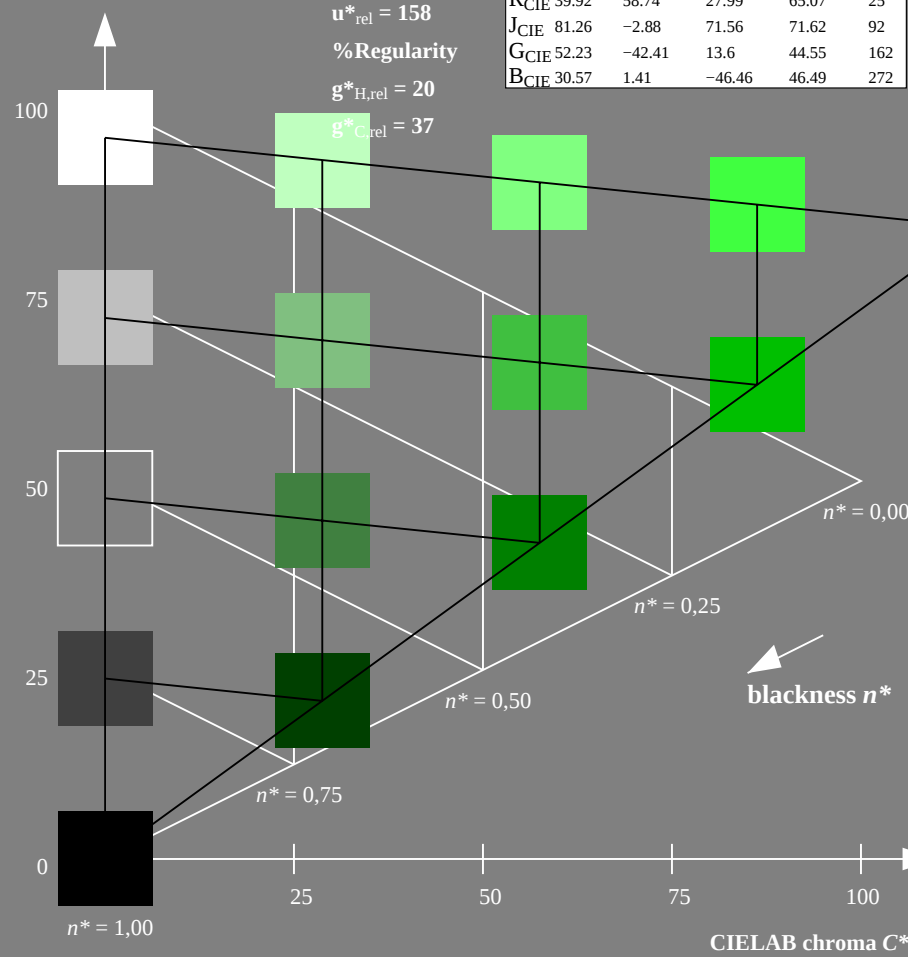
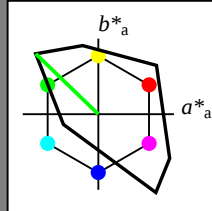
 $u^*_{rel} = 158$

% Regularity

 $g^*_{H,rel} = 20$ $g^*_{C,rel} = 37$

TLS00; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



NE330-7, 5 step scales for constant CIE LAB hue 136/360 = 0.378 (left)

BAM-test chart NE33; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 142/360 = 0.395$

LAB*LCH, LAB*NCH

D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0

CIE LAB lightness L^*

% Gamut

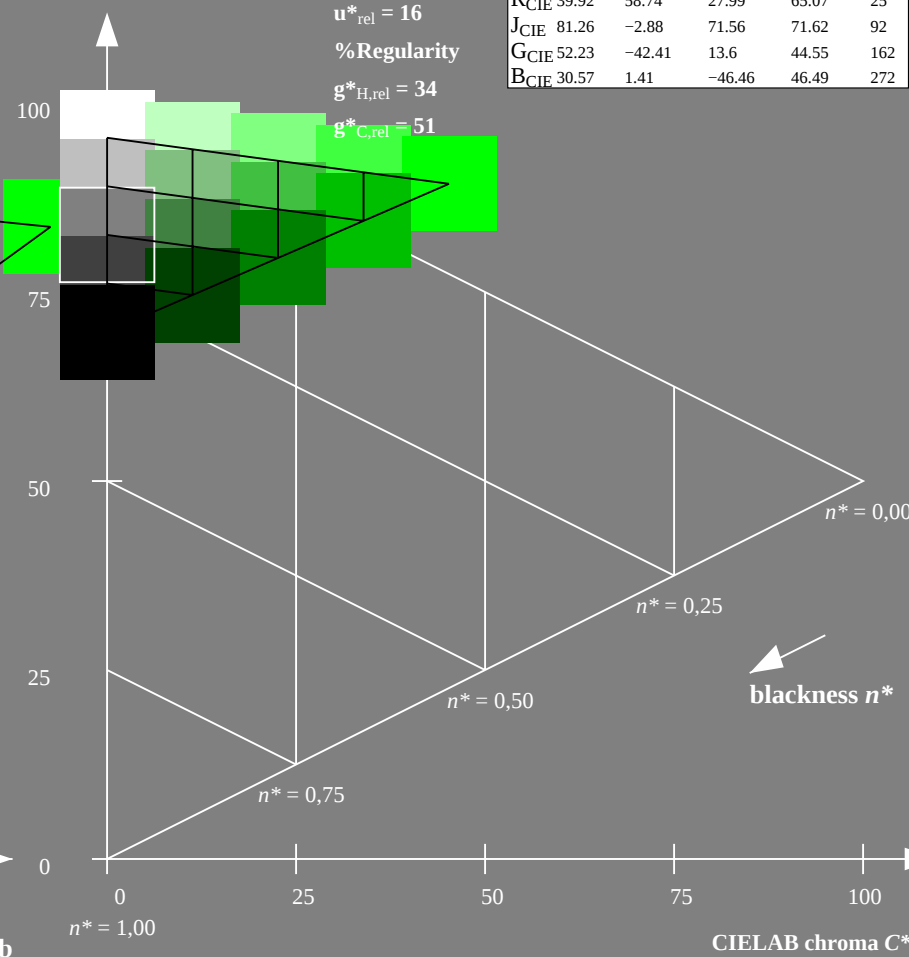
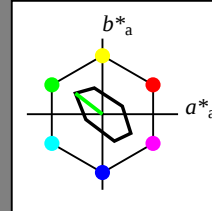
 $u^*_{rel} = 16$

% Regularity

 $g^*_{H,rel} = 34$ $g^*_{C,rel} = 51$

TLS70; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



5 step scales for constant CIE LAB hue 142/360 = 0.395 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 196/360 = 0.545$

LAB*LCH, LAB*NCH

D65: hue C

LCH*Ma: 87 48 196

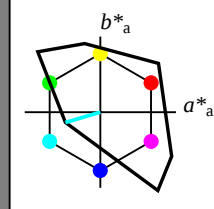
olv*Ma: 0.0 1.0 1.0

CIELAB lightness L^*

%Gamut

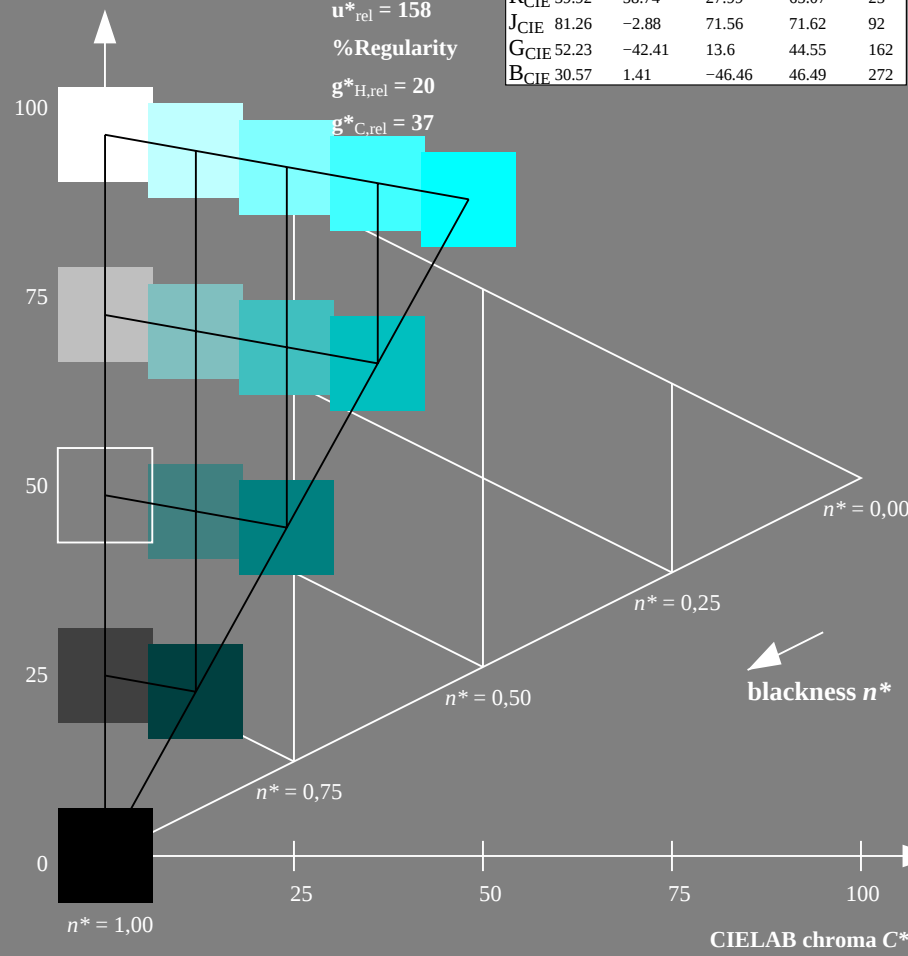
 $u^*_{rel} = 158$

%Regularity

 $g^*_{H,rel} = 20$ $g^*_{C,rel} = 37$ 

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



NE330-7, 5 step scales for constant CIELAB hue 196/360 = 0.545 (left)



BAM-test chart NE33; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 198/360 = 0.55$

LAB*LCH, LAB*NCH

D65: hue C

LCH*Ma: 91 23 198

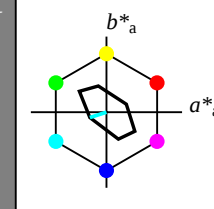
olv*Ma: 0.0 1.0 1.0

CIELAB lightness L^*

%Gamut

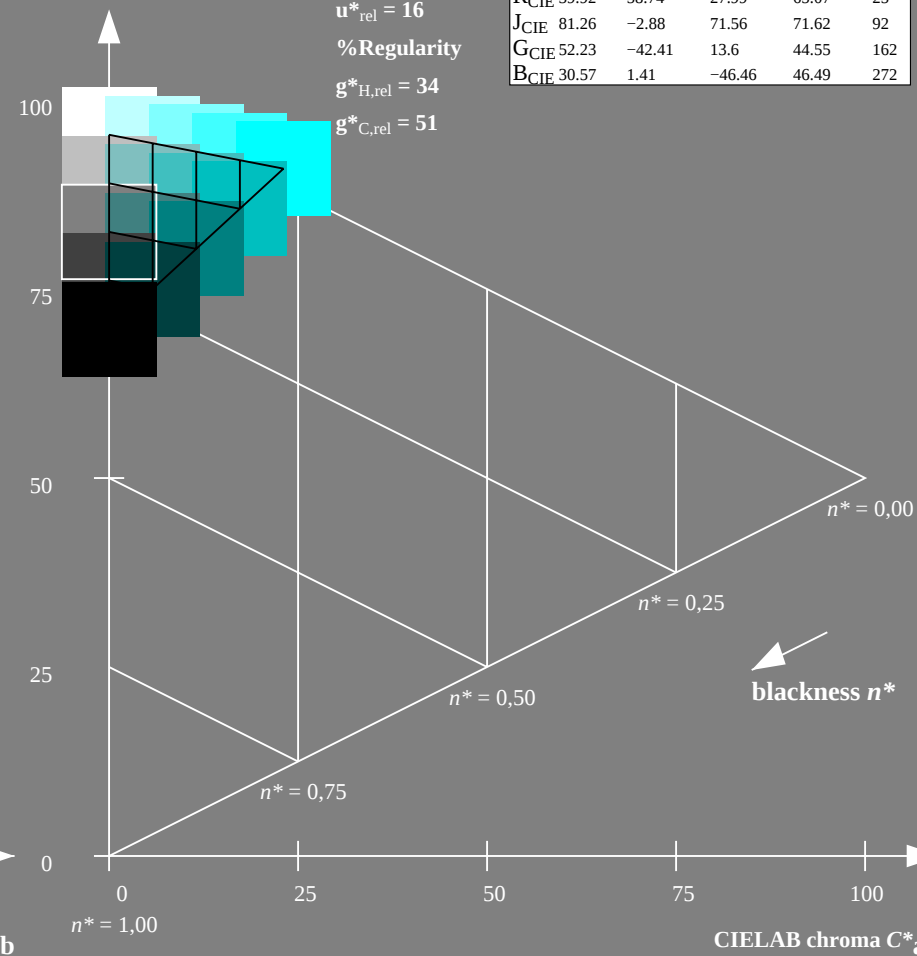
 $u^*_{rel} = 16$

%Regularity

 $g^*_{H,rel} = 34$ $g^*_{C,rel} = 51$ 

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



5 step scales for constant CIELAB hue 198/360 = 0.55 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend



Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 306/360 = 0.851$

LAB*LCH, LAB*NCH

D65: hue V

LCH*Ma: 30 129 306

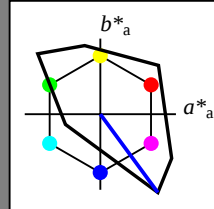
olv*Ma: 0.0 0.0 1.0

CIE LAB lightness L^*

% Gamut

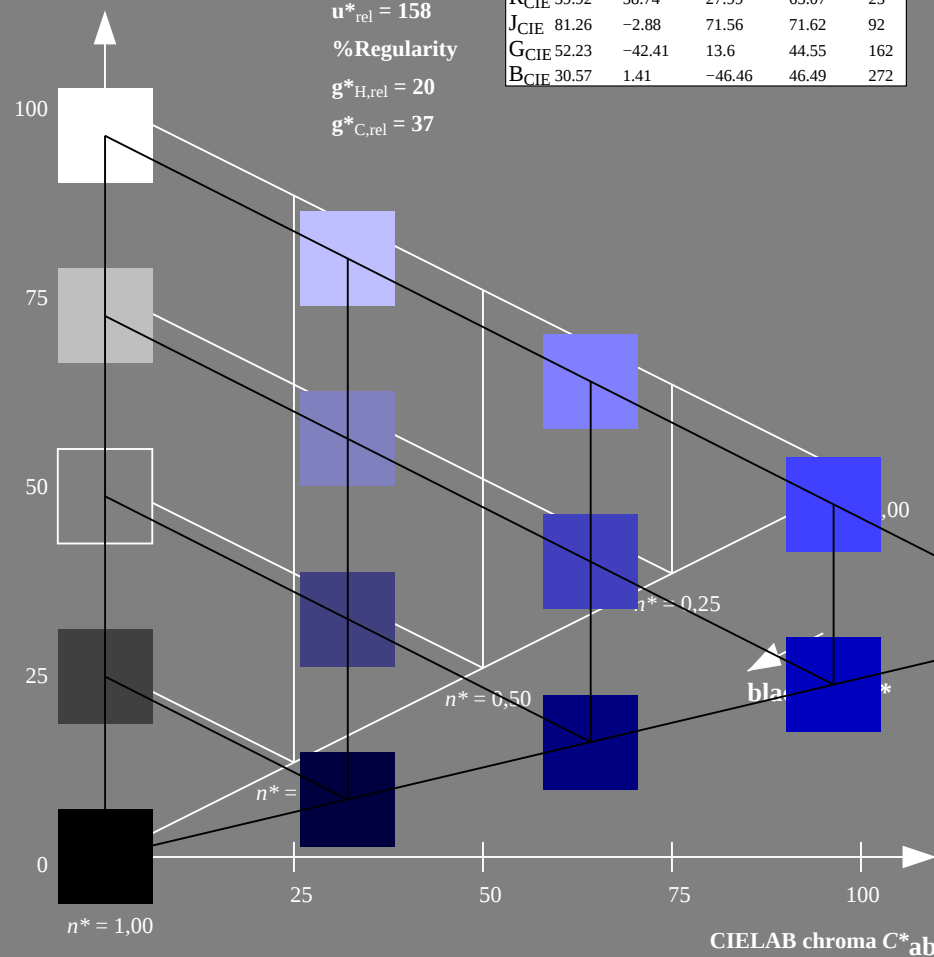
 $u^*_{rel} = 158$

% Regularity

 $g^*_{H,rel} = 20$ $g^*_{C,rel} = 37$ 

TLS00; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



NE330-7, 5 step scales for constant CIE LAB hue 306/360 = 0.851 (left)

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 294/360 = 0.816$

LAB*LCH, LAB*NCH

D65: hue V

LCH*Ma: 72 39 294

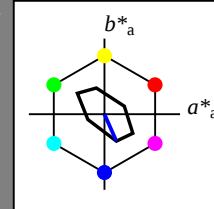
olv*Ma: 0.0 0.0 1.0

CIE LAB lightness L^*

% Gamut

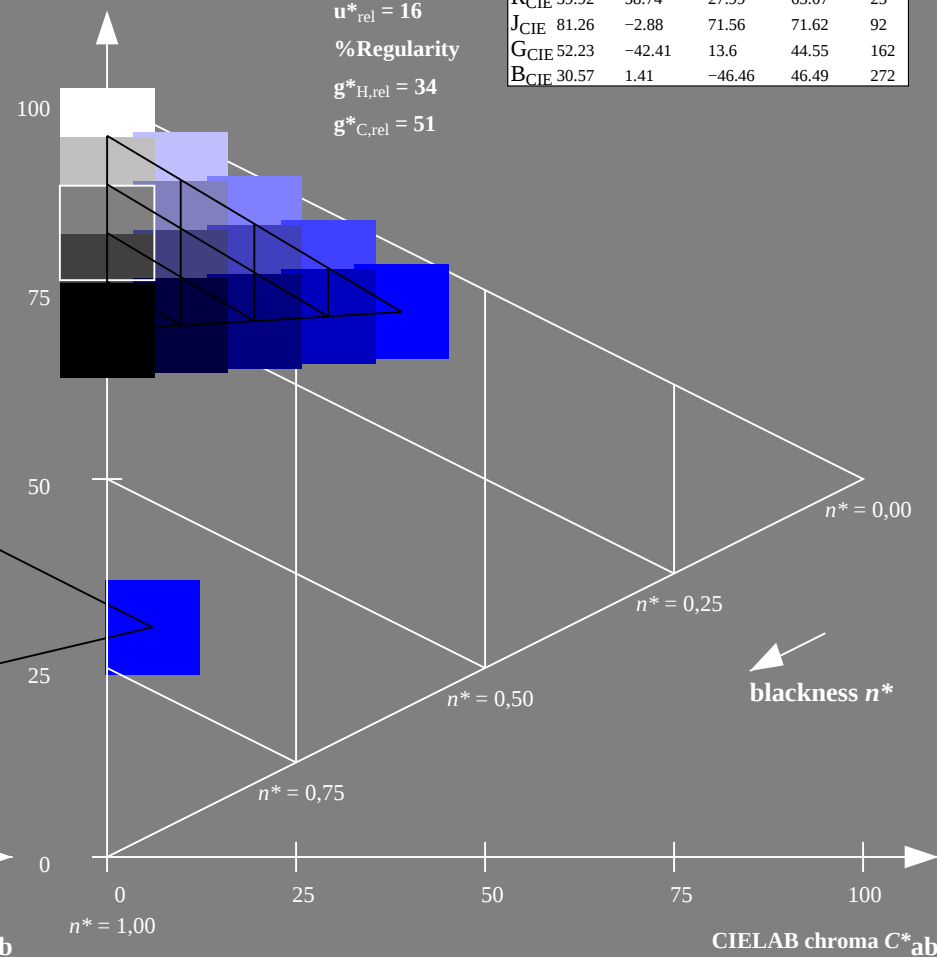
 $u^*_{rel} = 16$

% Regularity

 $g^*_{H,rel} = 34$ $g^*_{C,rel} = 51$ 

TLS70; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



5 step scales for constant CIE LAB hue 294/360 = 0.816 (right)

BAM-test chart NE33; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv* setrgbcolor

output: Startup (S) data depend

Input: Colorimetric Television Luminous System TLS00

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

LAB*LCH, LAB*NCH

D65: hue M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0

CIELAB lightness L^*

%Gamut

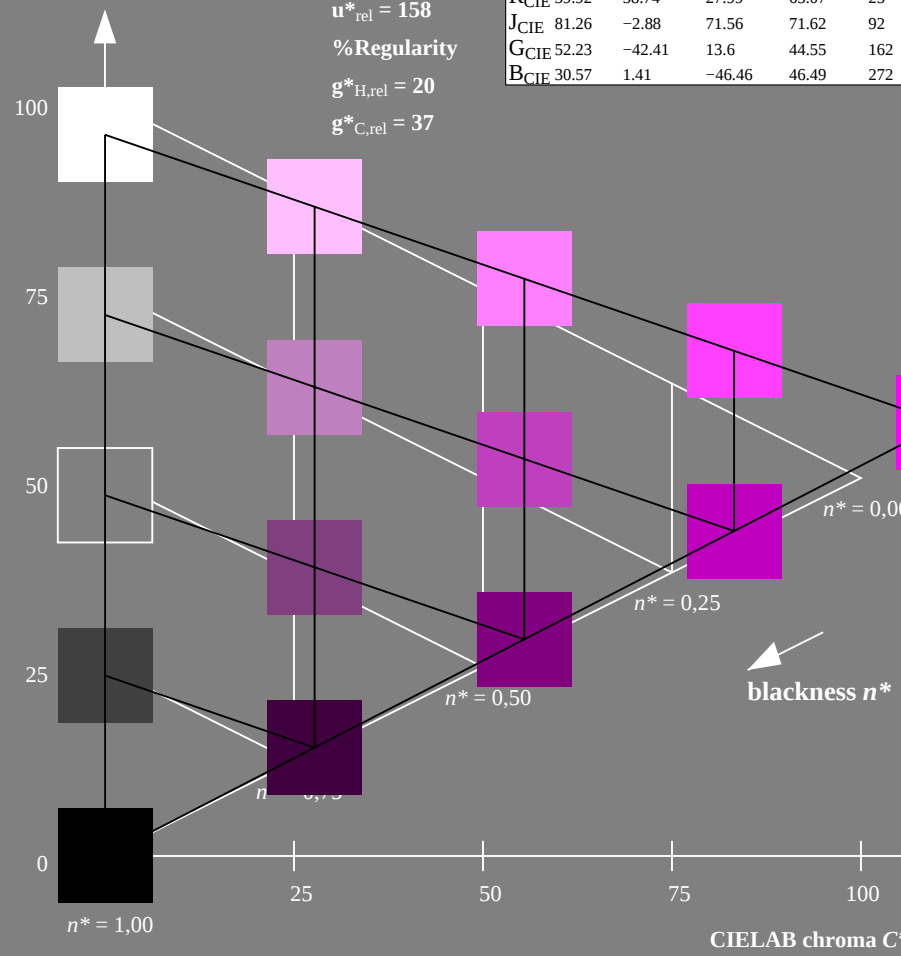
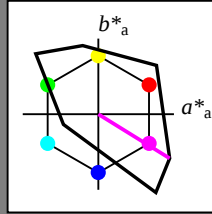
 $u^*_{rel} = 158$

%Regularity

 $g^*_{H,rel} = 20$ $g^*_{C,rel} = 37$

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



NE330-7, 5 step scales for constant CIELAB hue 328/360 = 0.912 (left)

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 326/360 = 0.906$

LAB*LCH, LAB*NCH

D65: hue M

LCH*Ma: 79 45 326

olv*Ma: 1.0 0.0 1.0

CIELAB lightness L^*

%Gamut

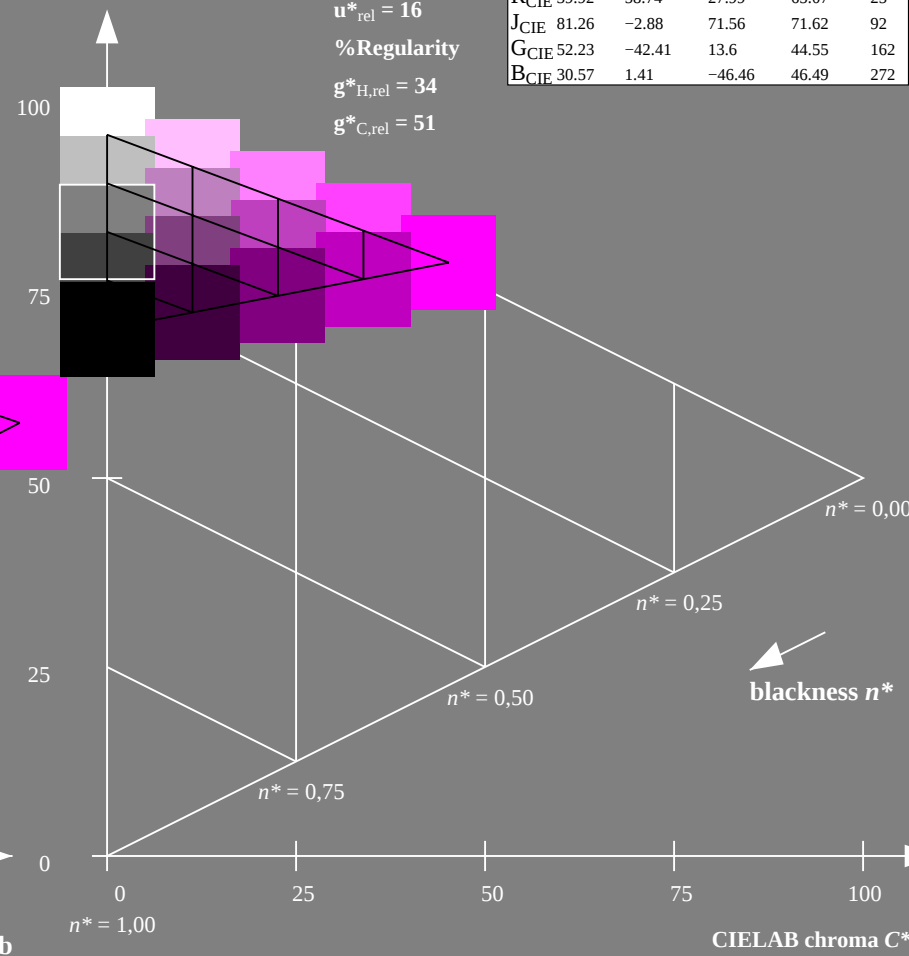
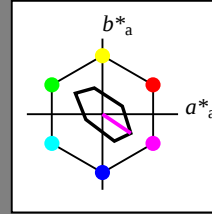
 $u^*_{rel} = 16$

%Regularity

 $g^*_{H,rel} = 34$ $g^*_{C,rel} = 51$

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



5 step scales for constant CIELAB hue 326/360 = 0.906 (right)

BAM-test chart NE33; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv* setrgbcolor

output: Startup (S) data depend

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 25/360 = 0.071$

LAB*LCH, LAB*NCH

D65: hue R

LCH*Ma: 52 89 25

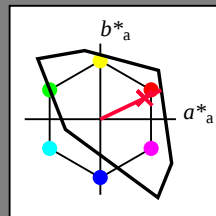
olv*Ma: 1.0 0.0 0.21

CIELAB lightness L^*

%Gamut

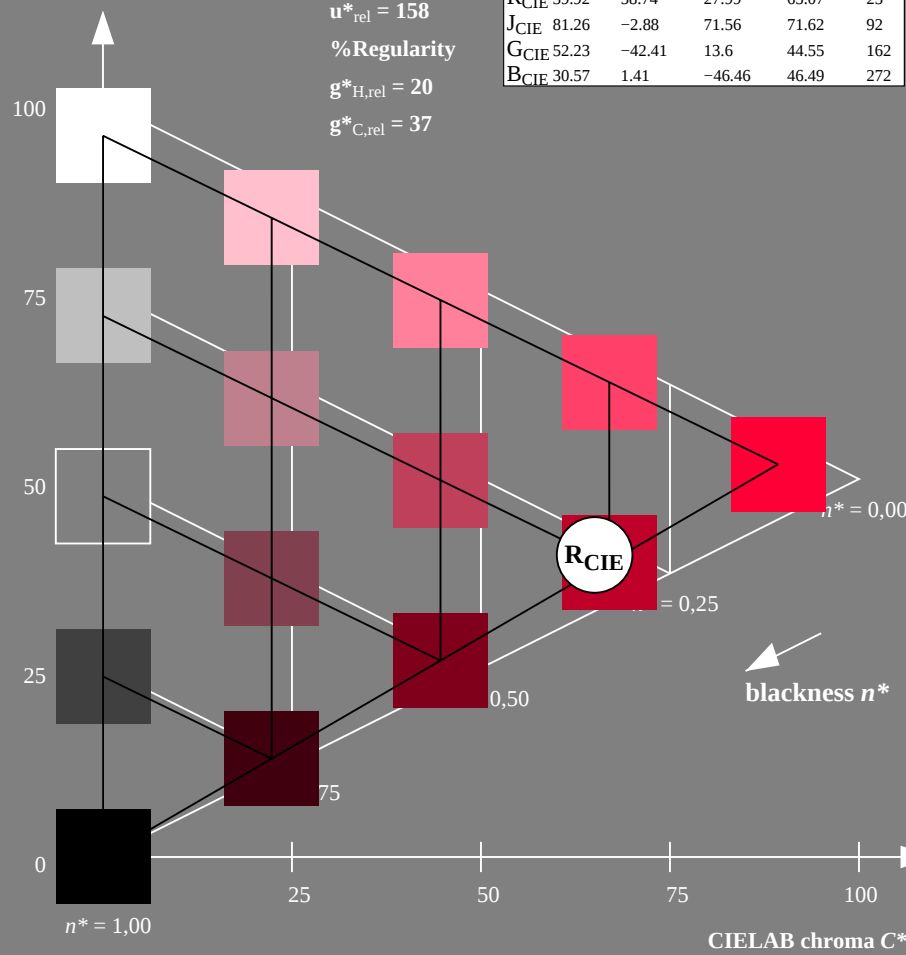
 $u^*_{rel} = 158$

%Regularity

 $g^*_{H,rel} = 20$ $g^*_{C,rel} = 37$ 

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



NE330-7, 5 step scales for constant CIE hue 25/360 = 0.071 (left)

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 25/360 = 0.071$

LAB*LCH, LAB*NCH

D65: hue R

LCH*Ma: 77 27 25

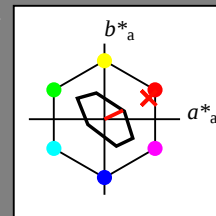
olv*Ma: 1.0 0.05 0.0

CIELAB lightness L^*

%Gamut

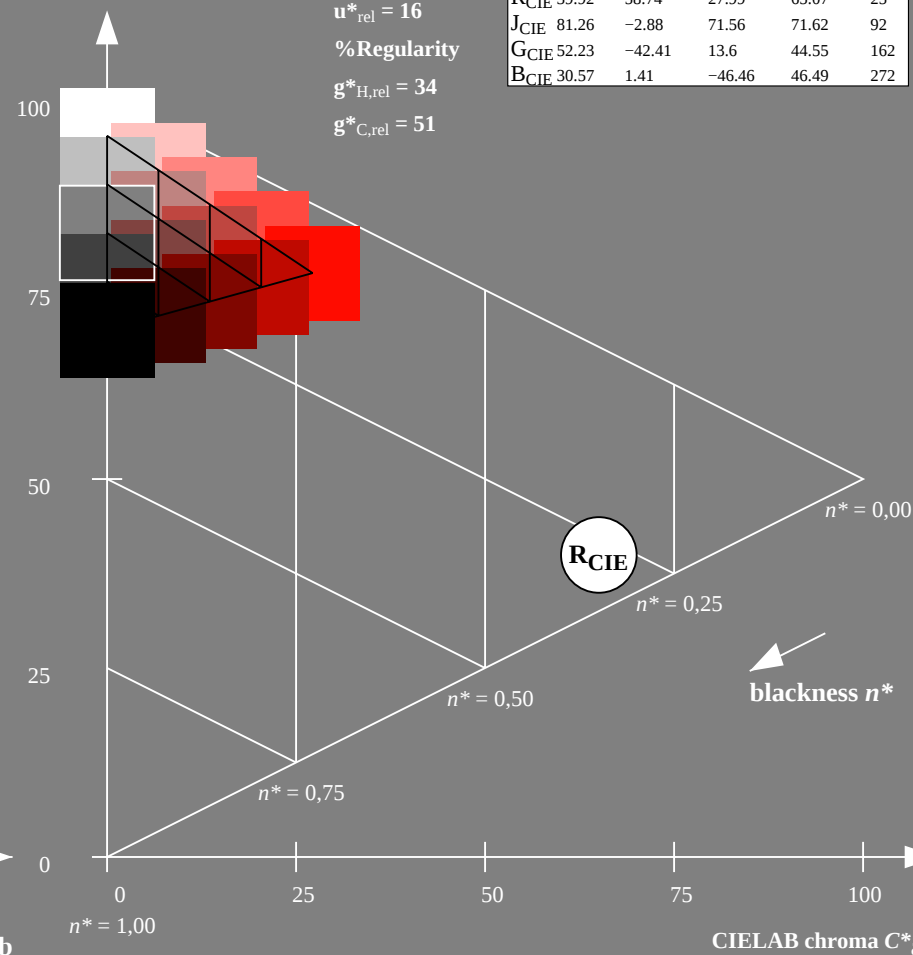
 $u^*_{rel} = 16$

%Regularity

 $g^*_{H,rel} = 34$ $g^*_{C,rel} = 51$ 

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



5 step scales for constant CIE hue 25/360 = 0.071 (right)

BAM-test chart NE33; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv* setrgbcolor

output: Startup (S) data dependend

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 92/360 = 0.256$

LAB*LCH, LAB*NCH

D65: hue J

LCH*Ma: 85 86 92

olv*Ma: 1.0 0.82 0.0

CIE LAB lightness L^*

%Gamut

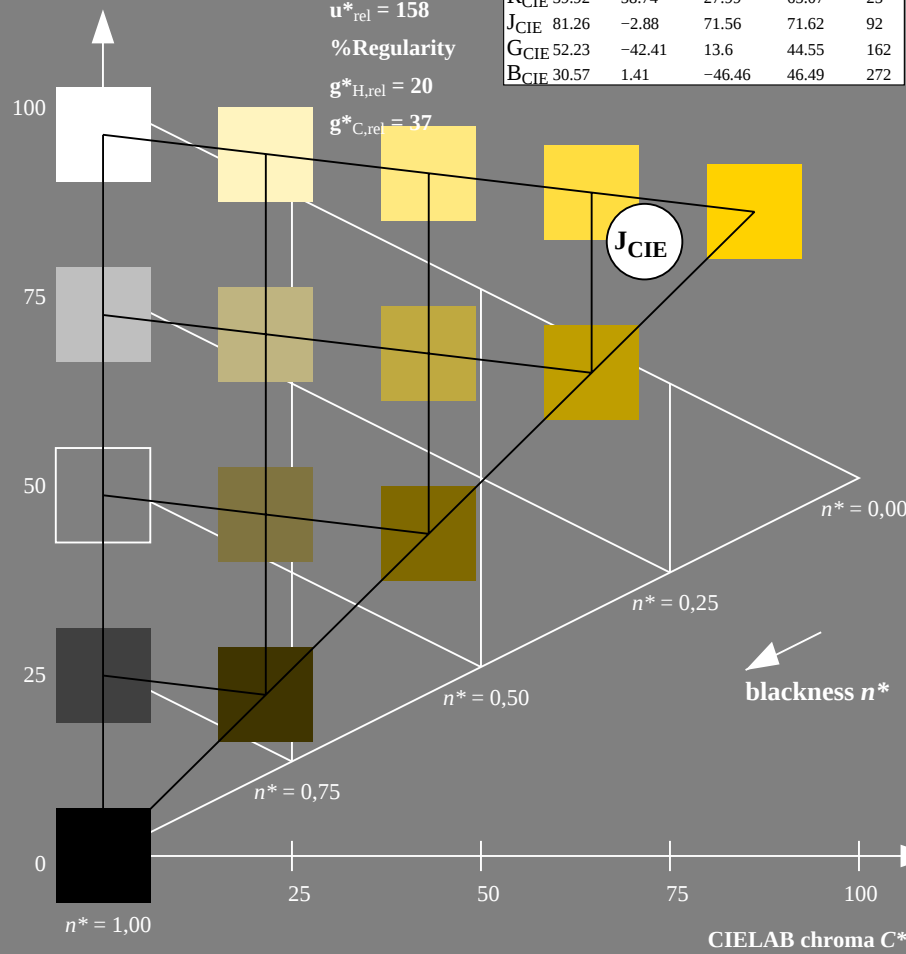
 $u^*_{rel} = 158$

%Regularity

 $g^*_{H,rel} = 20$ $g^*_{C,rel} = 37$

TLS00; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



NE330-7, 5 step scales for constant CIE LAB hue 92/360 = 0.256 (left)

BAM-test chart NE33; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 92/360 = 0.256$

LAB*LCH, LAB*NCH

D65: hue J

LCH*Ma: 89 28 92

olv*Ma: 1.0 0.74 0.0

CIE LAB lightness L^*

%Gamut

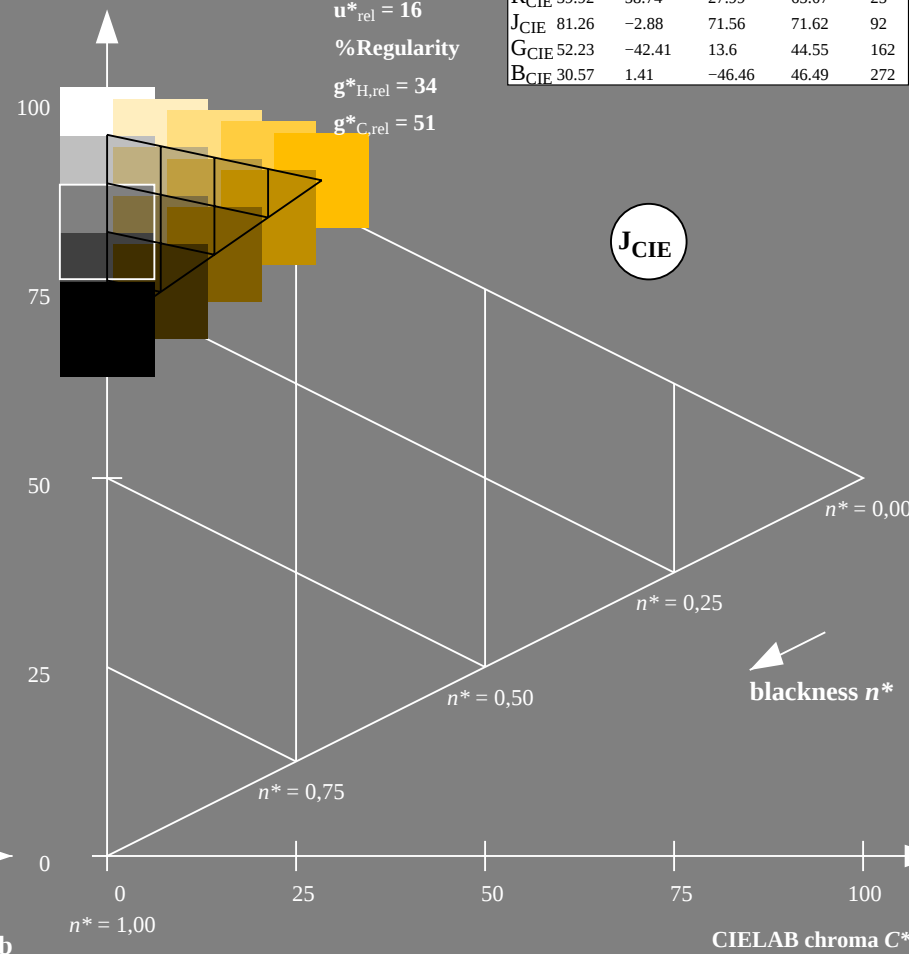
 $u^*_{rel} = 16$

%Regularity

 $g^*_{H,rel} = 34$ $g^*_{C,rel} = 51$

TLS70; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



5 step scales for constant CIE LAB hue 92/360 = 0.256 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 162/360 = 0.451$

LAB*LCH, LAB*NCH

D65: hue G

LCH*Ma: 86 62 162

olv*Ma: 0.0 1.0 0.65

CIE LAB lightness L^*

%Gamut

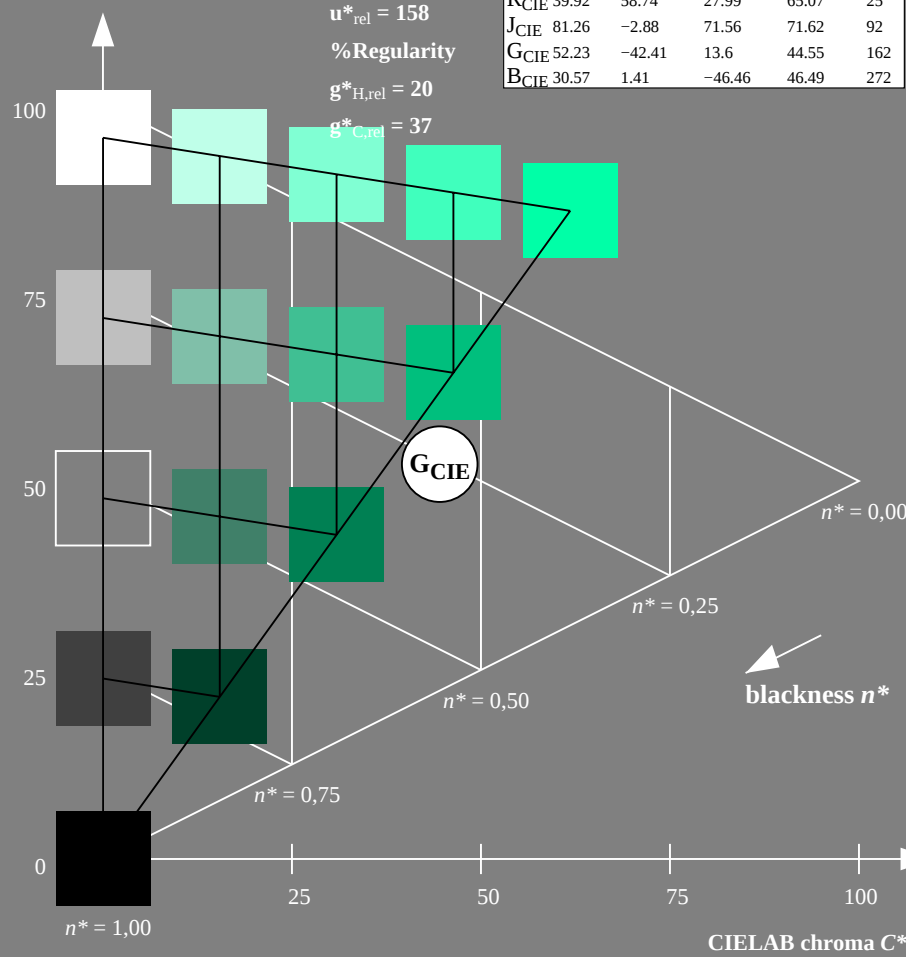
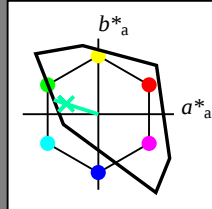
 $u^*_{rel} = 158$

%Regularity

 $g^*_{H,rel} = 20$ $g^*_{C,rel} = 37$

TLS00; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
C _{Ma}	86.88	-46.16	-13.55	48.12	196
V _{Ma}	30.39	76.06	-103.59	128.52	306
M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



NE330-7, 5 step scales for constant CIE LAB hue 162/360 = 0.451 (left)

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 162/360 = 0.451$

LAB*LCH, LAB*NCH

D65: hue G

LCH*Ma: 90 30 162

olv*Ma: 0.0 1.0 0.53

CIE LAB lightness L^*

%Gamut

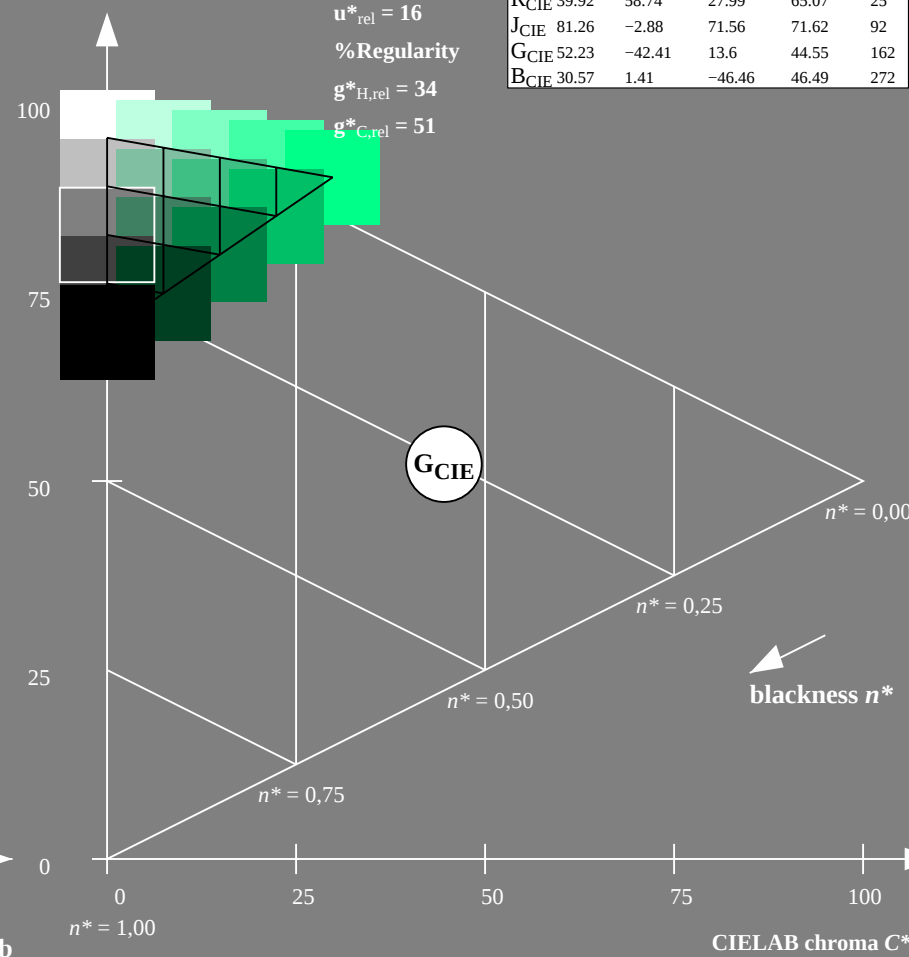
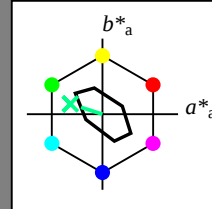
 $u^*_{rel} = 16$

%Regularity

 $g^*_{H,rel} = 34$ $g^*_{C,rel} = 51$

TLS70; adapted (a) CIE LAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



5 step scales for constant CIE LAB hue 162/360 = 0.451 (right)

BAM-test chart NE33; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

input: olv* setrgbcolor

output: Startup (S) data dependend

Input: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 272/360 = 0.755$

LAB*LCH, LAB*NCH

D65: hue B

LCH*Ma: 65 49 272

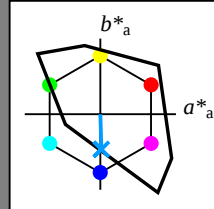
olv*Ma: 0.0 0.61 1.0

CIELAB lightness L^*

%Gamut

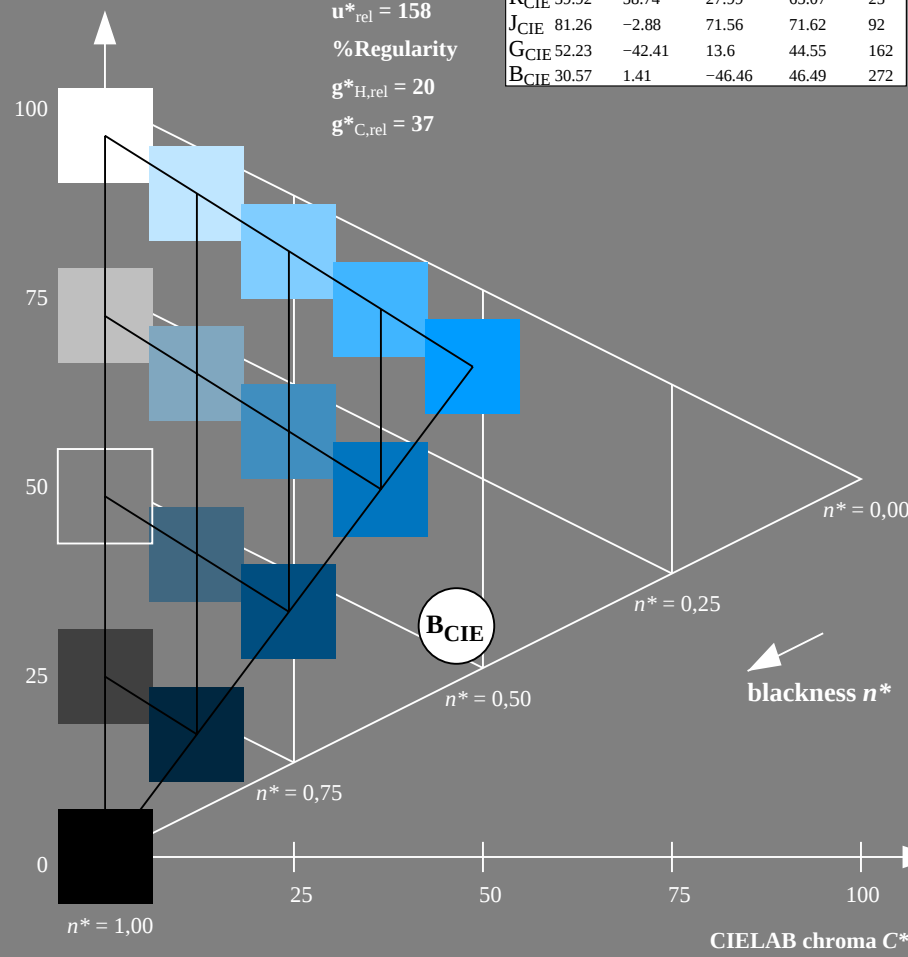
 $u^*_{rel} = 158$

%Regularity

 $g^*_{H,rel} = 20$ $g^*_{C,rel} = 37$ 

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	50.5	76.92	64.55	100.42	40
Y _{Ma}	92.66	-20.69	90.75	93.08	103
L _{Ma}	83.63	-82.75	79.9	115.04	136
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M _{Ma}	57.3	94.35	-58.41	110.97	328
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



NE330-7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)



BAM-test chart NE33; Colorimetric systems ORS18 & ORS18

D65: Coordinate systems of 5 step colour scales for 10 hues

Output: Colorimetric Television Luminous System TLS70

for hue $h^* = lab \cdot h = 272/360 = 0.755$

LAB*LCH, LAB*NCH

D65: hue B

LCH*Ma: 80 24 272

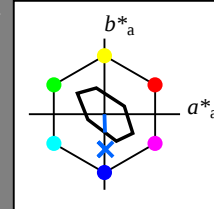
olv*Ma: 0.0 0.4 1.0

CIELAB lightness L^*

%Gamut

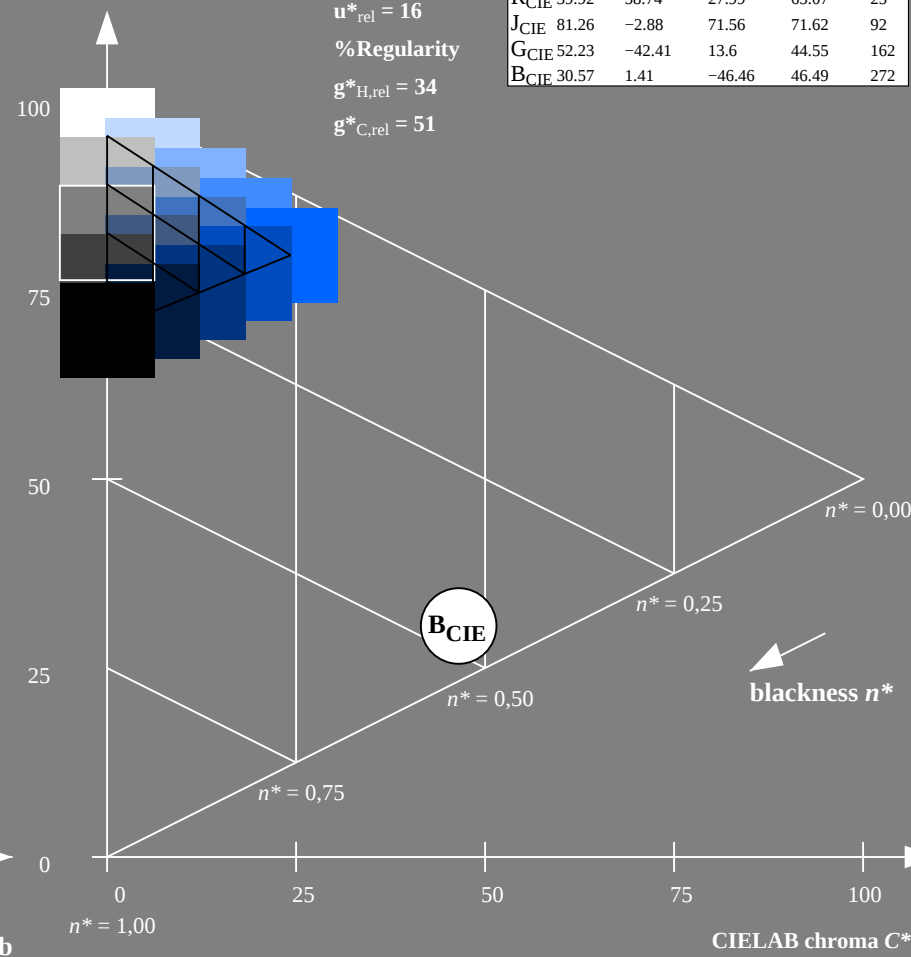
 $u^*_{rel} = 16$

%Regularity

 $g^*_{H,rel} = 34$ $g^*_{C,rel} = 51$ 

TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	76.43	26.27	10.57	28.32	22
Y _{Ma}	93.93	-10.76	34.63	36.27	107
L _{Ma}	89.32	-35.8	27.64	45.24	142
C _{Ma}	90.93	-21.95	-7.07	23.07	198
V _{Ma}	72.1	15.76	-35.63	38.97	294
M _{Ma}	78.5	37.52	-25.23	45.22	326
N _{Ma}	69.7	0.0	0.0	0.0	0
W _{Ma}	95.41	0.0	0.0	0.0	0
R _{CIE}	39.92	58.74	27.99	65.07	25
J _{CIE}	81.26	-2.88	71.56	71.62	92
G _{CIE}	52.23	-42.41	13.6	44.55	162
B _{CIE}	30.57	1.41	-46.46	46.49	272



5 step scales for constant CIELAB hue 272/360 = 0.755 (right)

input: olv* setrgbcolor

output: Startup (S) data dependend

