

Input: Colorimetric Offset Reflective System ORS18

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

LAB*LCH, LAB*NCH

A: hue O

LCH*Ma: 48 82 38

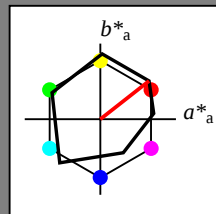
olv*Ma: 1.0 0.0 0.0

CIELAB lightness L^*

%Gamut

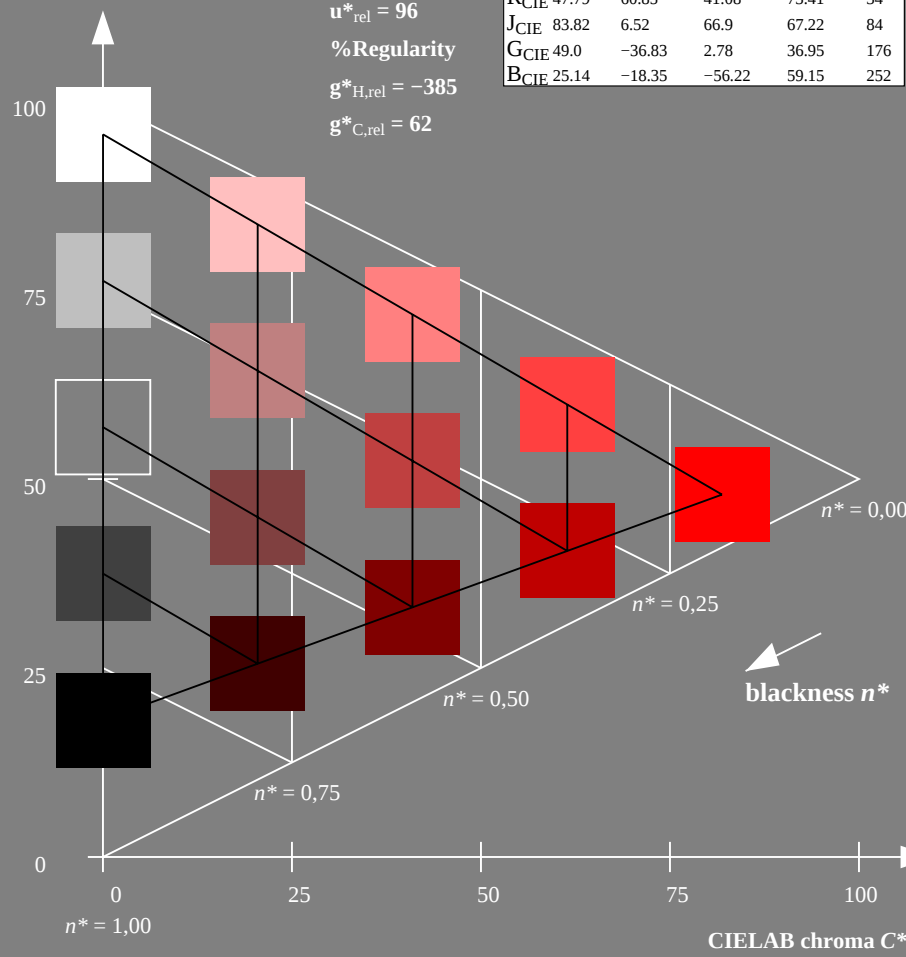
 $u^*_{rel} = 96$

%Regularity

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

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



RE300-7, 5 step scales for constant CIELAB hue 38/360 = 0.106 (left)

BAM-test chart RE30; Colorimetric systems ORS18 & ORS18

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

Output: Colorimetric Television Luminous System TLS00

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

LAB*LCH, LAB*NCH

A: hue O

LCH*Ma: 66 90 35

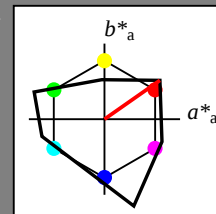
olv*Ma: 1.0 0.0 0.0

CIELAB lightness L^*

%Gamut

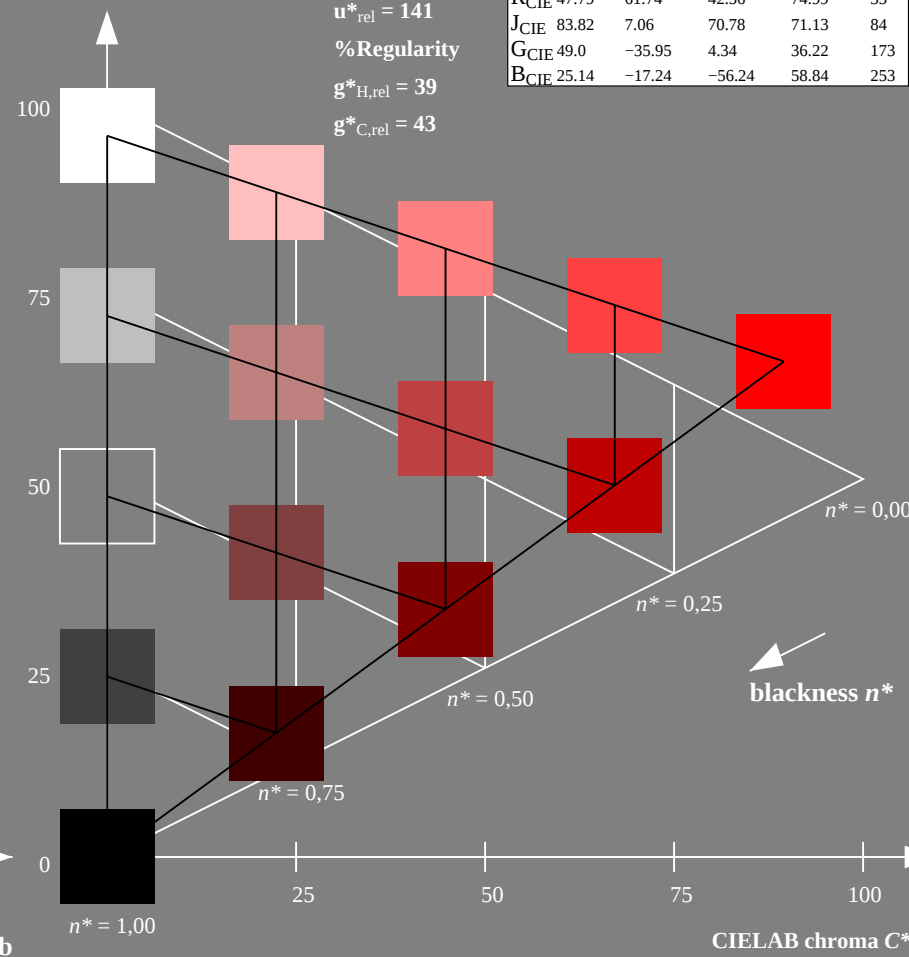
 $u^*_{rel} = 141$

%Regularity

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

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



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

input: olv* setrgbcolor

output: Startup (S) data depend

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 88/360 = 0.246$

LAB*LCH, LAB*NCH

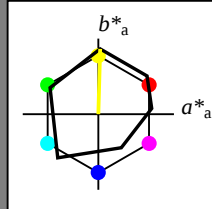
A: hue Y

LCH*Ma: 93 86 88

olv*Ma: 1.0 1.0 0.0

ORS18; adapted (a) CIELAB data

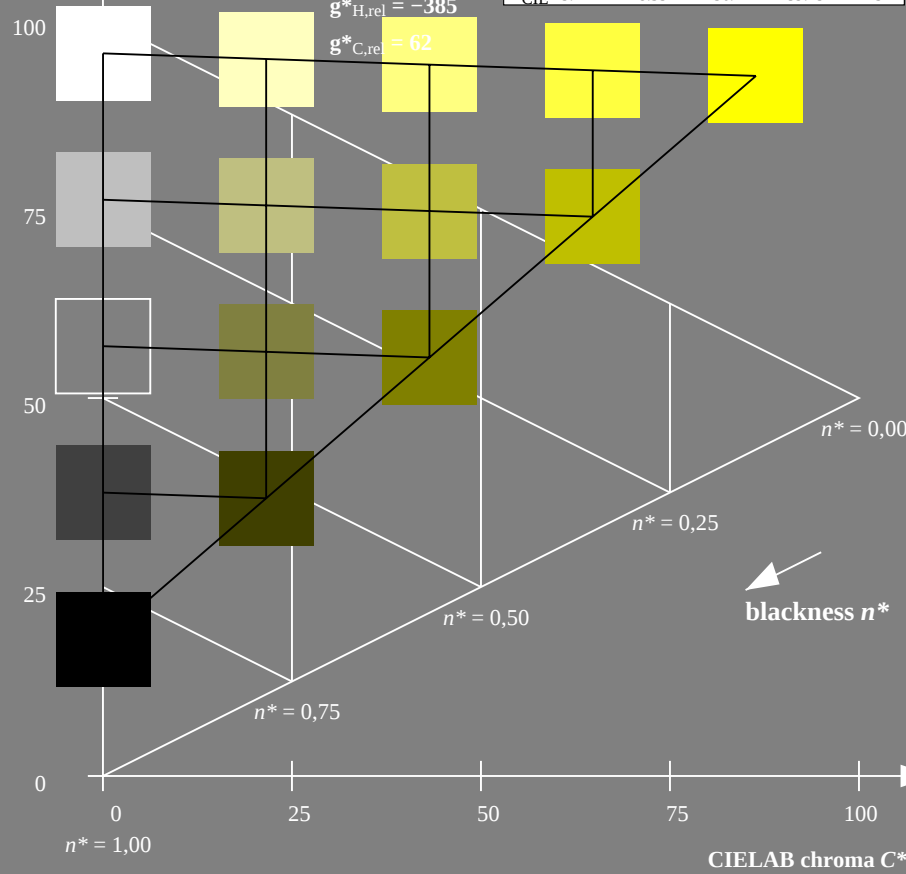
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	47.94	64.42	50.58	81.9	38
Y _{Ma}	92.62	2.41	86.36	86.39	88
L _{Ma}	50.9	-63.82	35.02	72.81	151
C _{Ma}	51.25	-53.68	-57.69	78.82	227
V _{Ma}	25.72	30.34	-44.37	53.76	304
M _{Ma}	56.25	70.59	7.57	70.99	6
N _{Ma}	18.11	0.0	0.0	0.0	0
W _{Ma}	95.6	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

CIELAB lightness L^*

%Gamut

 $u^*_{rel} = 96$

%Regularity

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

RE300-7, 5 step scales for constant CIELAB hue 88/360 = 0.246 (left)



BAM-test chart RE30; Colorimetric systems ORS18 & ORS18

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 94/360 = 0.261$

LAB*LCH, LAB*NCH

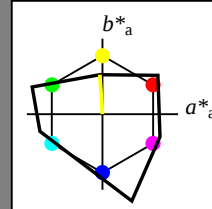
A: hue Y

LCH*Ma: 95 52 94

olv*Ma: 1.0 1.0 0.0

TLS00; adapted (a) CIELAB data

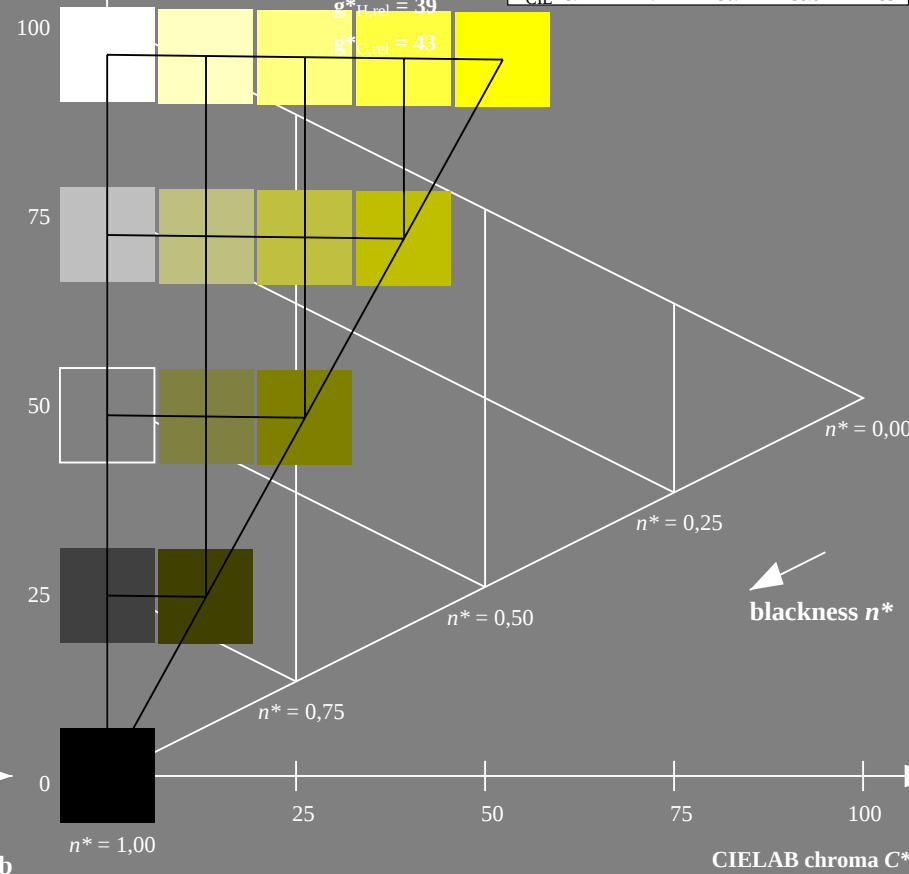
	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O _{Ma}	65.56	73.34	51.39	89.55	35
Y _{Ma}	94.78	-3.49	52.24	52.36	94
L _{Ma}	77.48	-92.97	36.0	99.71	159
C _{Ma}	78.36	-82.69	-22.74	85.77	195
V _{Ma}	12.55	38.81	-114.81	121.2	289
M _{Ma}	66.71	76.08	-29.8	81.71	339
N _{Ma}	0.01	0.0	0.0	0.0	0
W _{Ma}	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

CIELAB lightness L^*

%Gamut

 $u^*_{rel} = 141$

%Regularity

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

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

input: olv* setrgbcolor

output: Startup (S) data dependend



Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 151/360 = 0.42$

LAB*LCH, LAB*NCH

A: hue L

LCH*Ma: 51 73 151

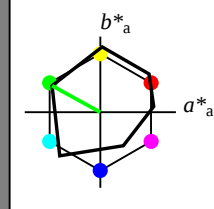
olv*Ma: 0.0 1.0 0.0

CIELAB lightness L^*

%Gamut

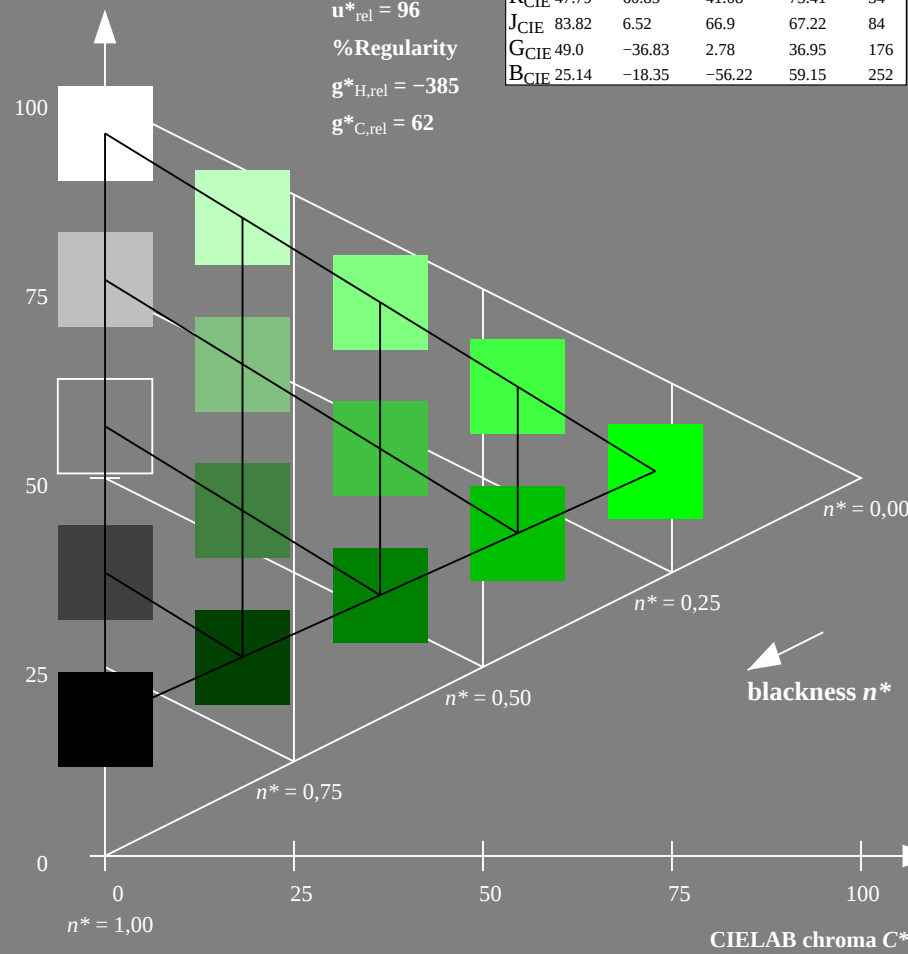
 $u^*_{rel} = 96$

%Regularity

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

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



RE300-7, 5 step scales for constant CIELAB hue 151/360 = 0.42 (left)

BAM-test chart RE30; Colorimetric systems ORS18 & ORS18

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 159/360 = 0.441$

LAB*LCH, LAB*NCH

A: hue L

LCH*Ma: 77 100 159

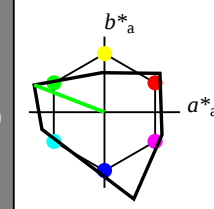
olv*Ma: 0.0 1.0 0.0

CIELAB lightness L^*

%Gamut

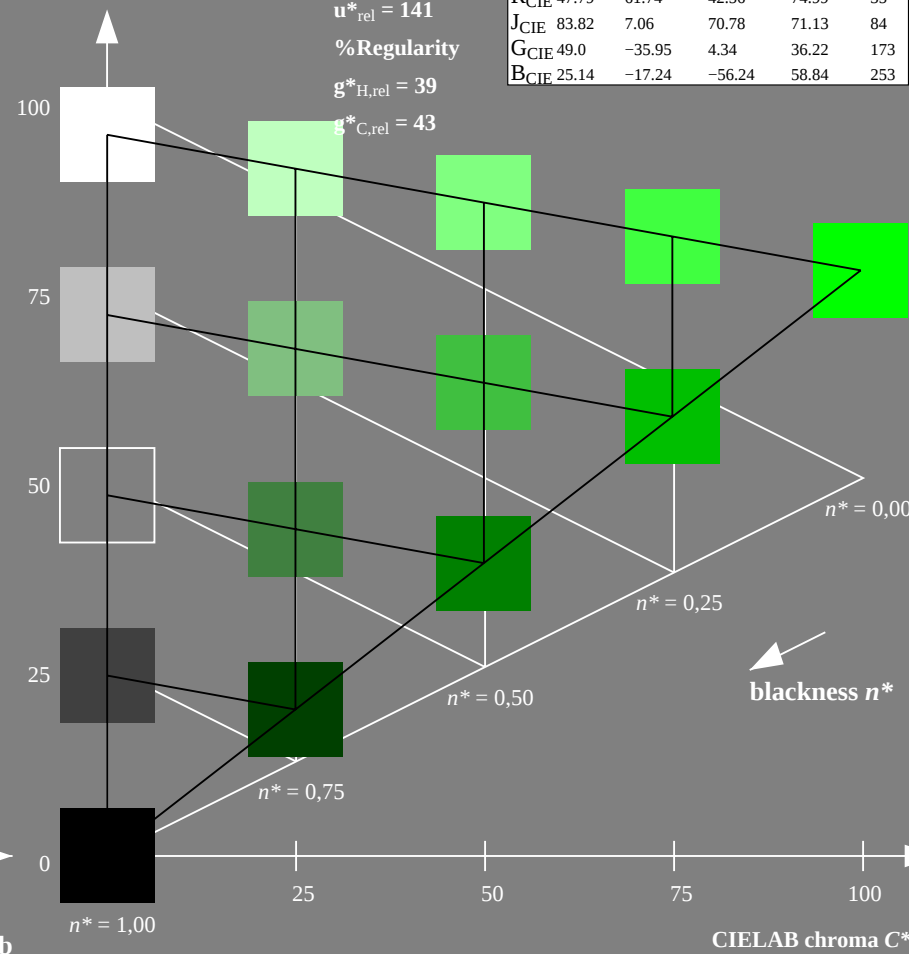
 $u^*_{rel} = 141$

%Regularity

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

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



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

input: olv* setrgbcolor

output: Startup (S) data depend

Input: Colorimetric Offset Reflective System ORS18

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

LAB*LCH, LAB*NCH

A: hue C

LCH*Ma: 51 79 227

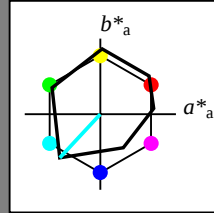
olv*Ma: 0.0 1.0 1.0

CIELAB lightness L^*

%Gamut

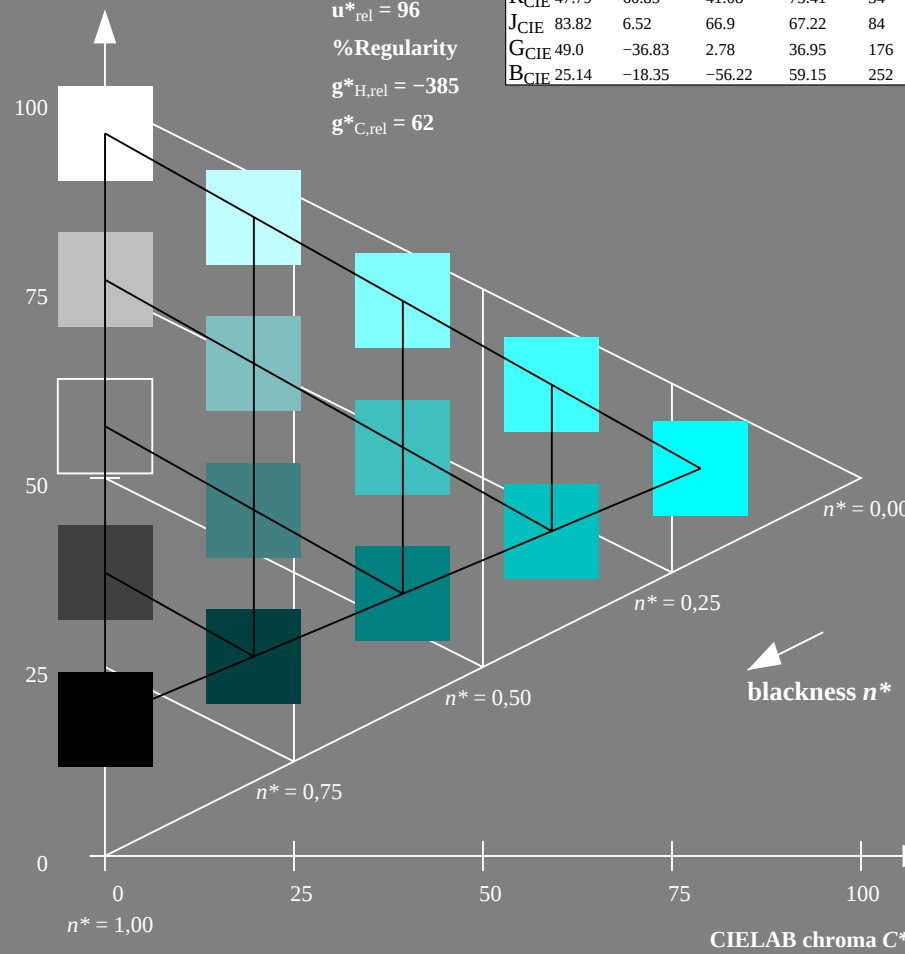
 $u^*_{rel} = 96$

%Regularity

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

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



RE300-7, 5 step scales for constant CIELAB hue 227/360 = 0.631 (left)

BAM-test chart RE30; Colorimetric systems ORS18 & ORS18

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

Output: Colorimetric Television Luminous System TLS00

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

LAB*LCH, LAB*NCH

A: hue C

LCH*Ma: 78 86 195

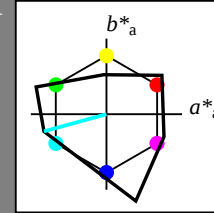
olv*Ma: 0.0 1.0 1.0

CIELAB lightness L^*

%Gamut

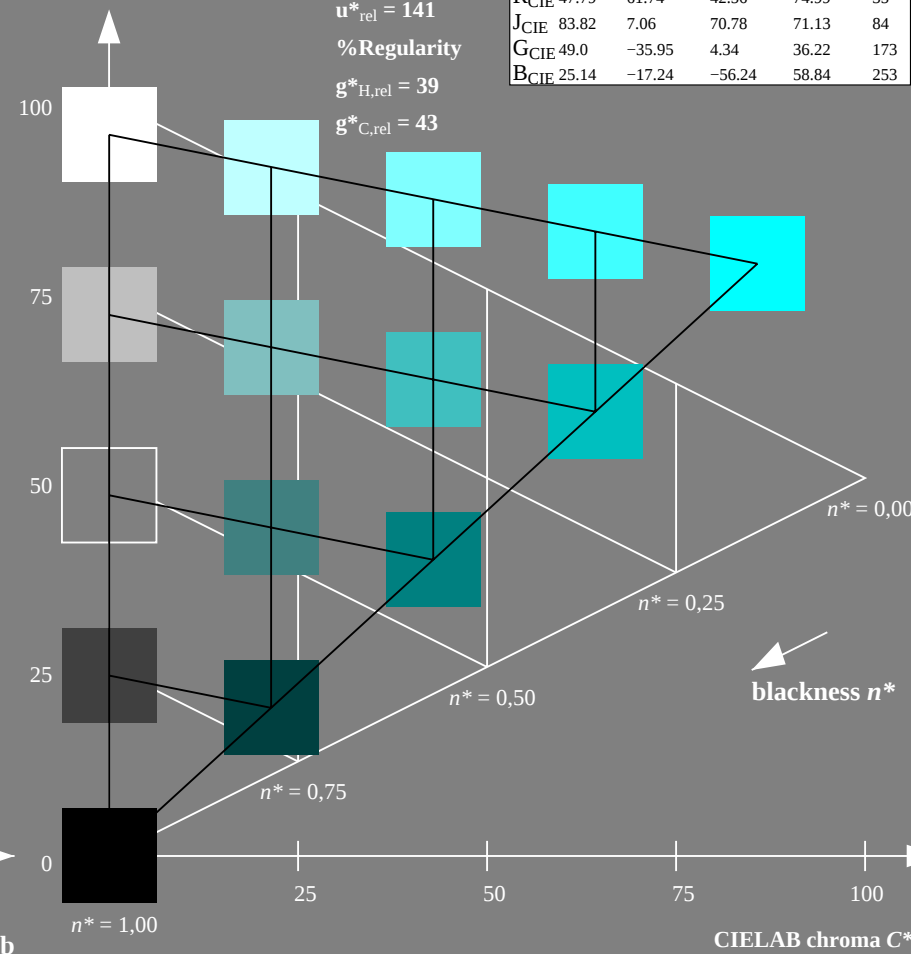
 $u^*_{rel} = 141$

%Regularity

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

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



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

input: olv* setrgbcolor

output: Startup (S) data dependend

Input: Colorimetric Offset Reflective System ORS18

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

LAB*LCH, LAB*NCH

A: hue V

LCH*Ma: 26 54 304

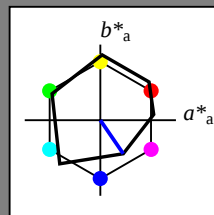
olv*Ma: 0.0 0.0 1.0

CIELAB lightness L^*

%Gamut

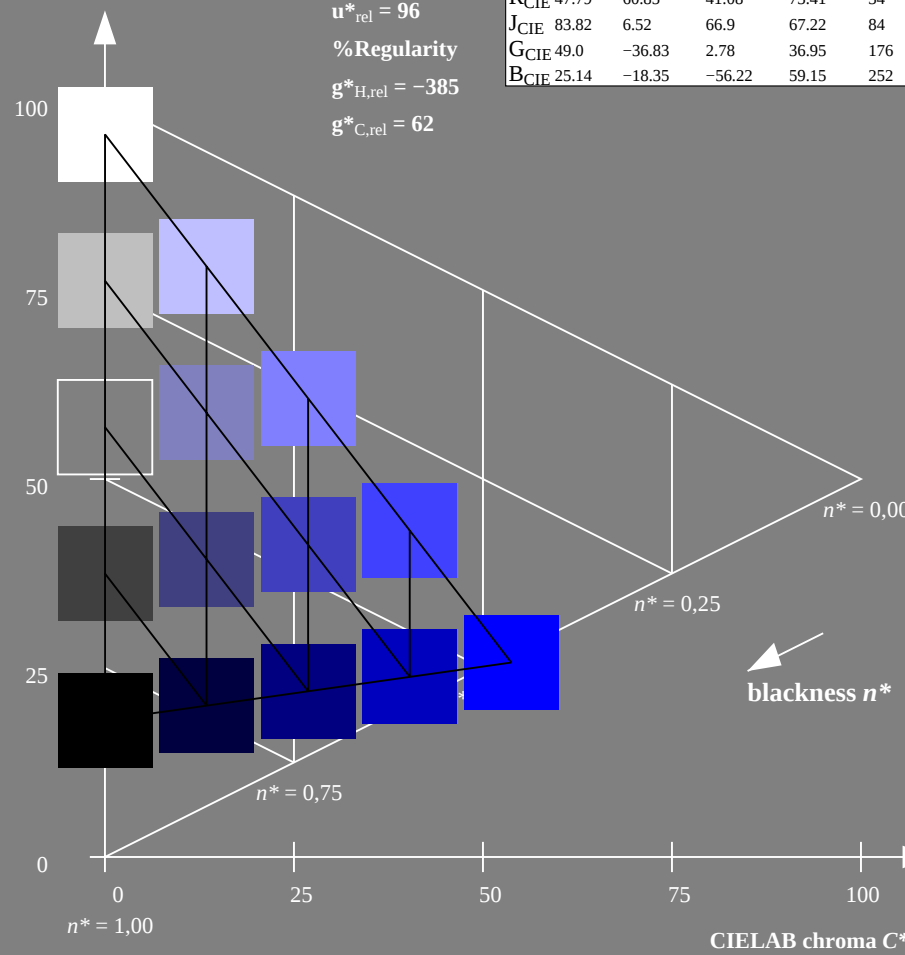
 $u^*_{rel} = 96$

%Regularity

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

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



RE300-7, 5 step scales for constant CIELAB hue 304/360 = 0.845 (left)

BAM-test chart RE30; Colorimetric systems ORS18 & ORS18

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

Output: Colorimetric Television Luminous System TLS00

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

LAB*LCH, LAB*NCH

A: hue V

LCH*Ma: 13 121 289

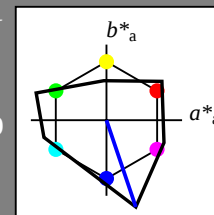
olv*Ma: 0.0 0.0 1.0

CIELAB lightness L^*

%Gamut

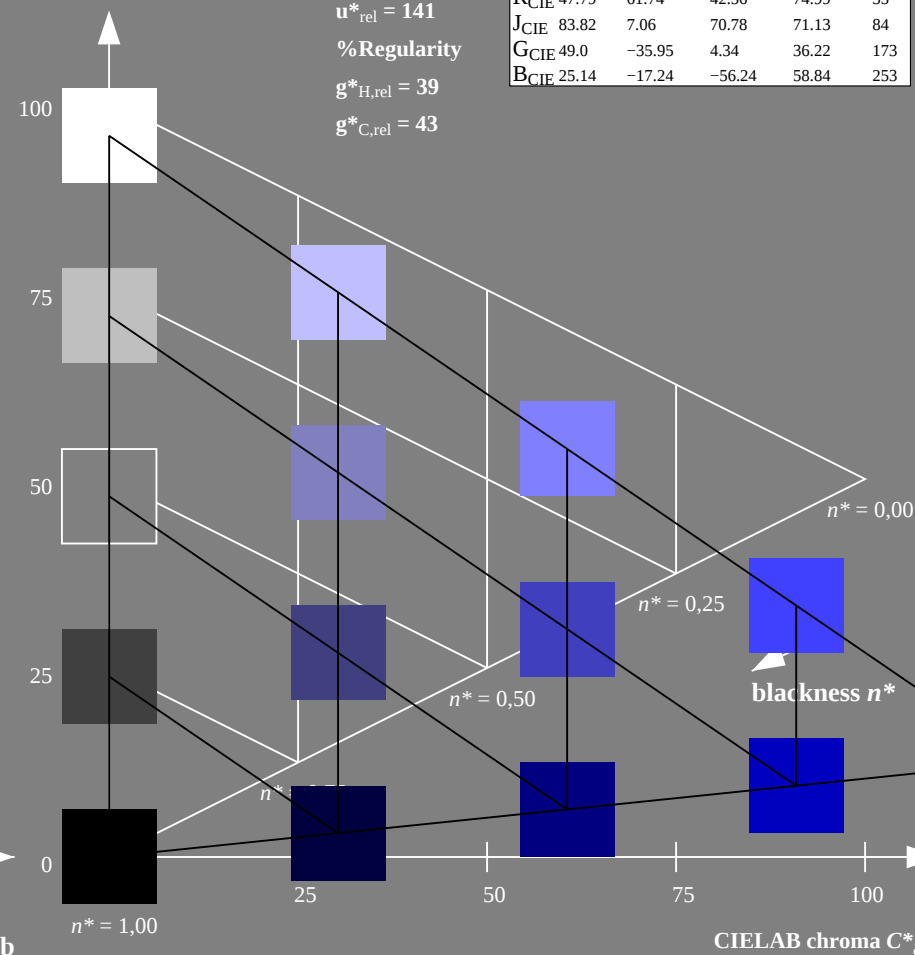
 $u^*_{rel} = 141$

%Regularity

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

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



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

input: olv* setrgbcolor

output: Startup (S) data depend

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 6/360 = 0.017$

LAB*LCH, LAB*NCH

A: hue M

LCH*Ma: 56 71 6

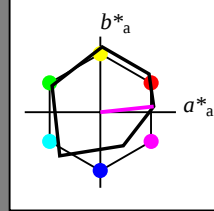
olv*Ma: 1.0 0.0 1.0

CIELAB lightness L^*

%Gamut

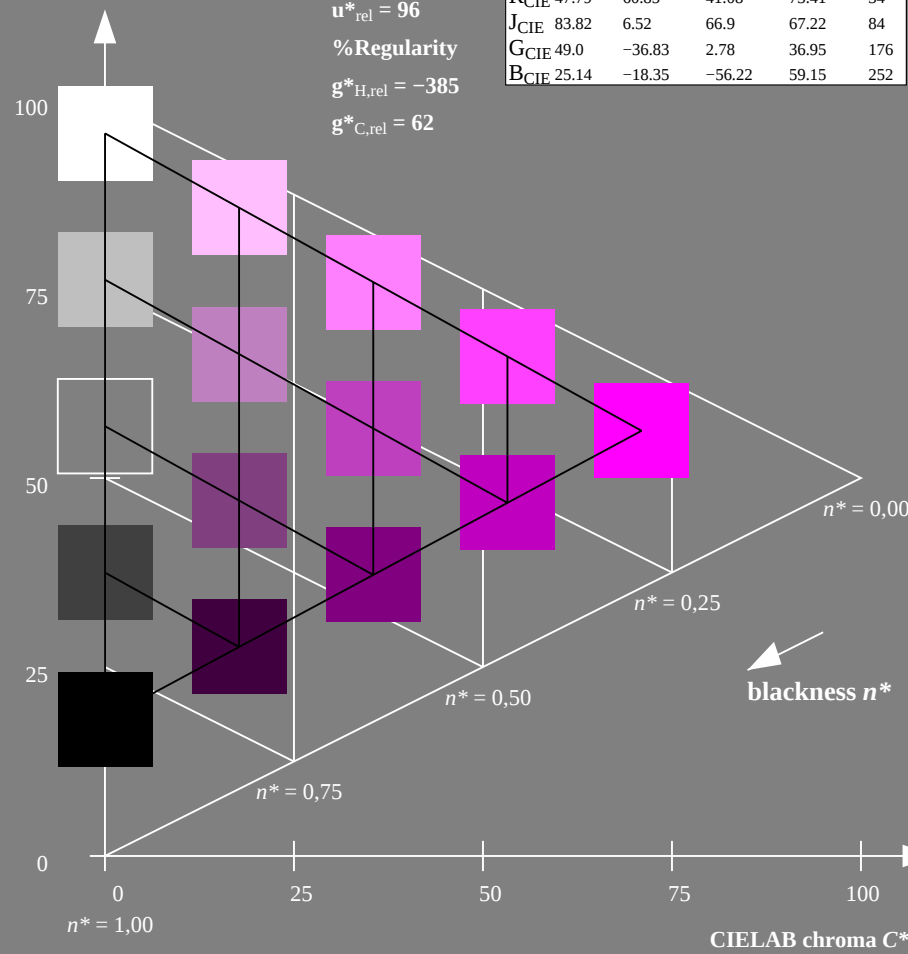
 $u^*_{rel} = 96$

%Regularity

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

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
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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



RE300-7, 5 step scales for constant CIELAB hue 6/360 = 0.017 (left)



BAM-test chart RE30; Colorimetric systems ORS18 & ORS18

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 339/360 = 0.941$

LAB*LCH, LAB*NCH

A: hue M

LCH*Ma: 67 82 339

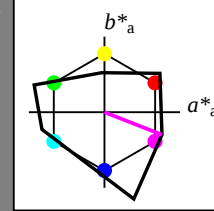
olv*Ma: 1.0 0.0 1.0

CIELAB lightness L^*

%Gamut

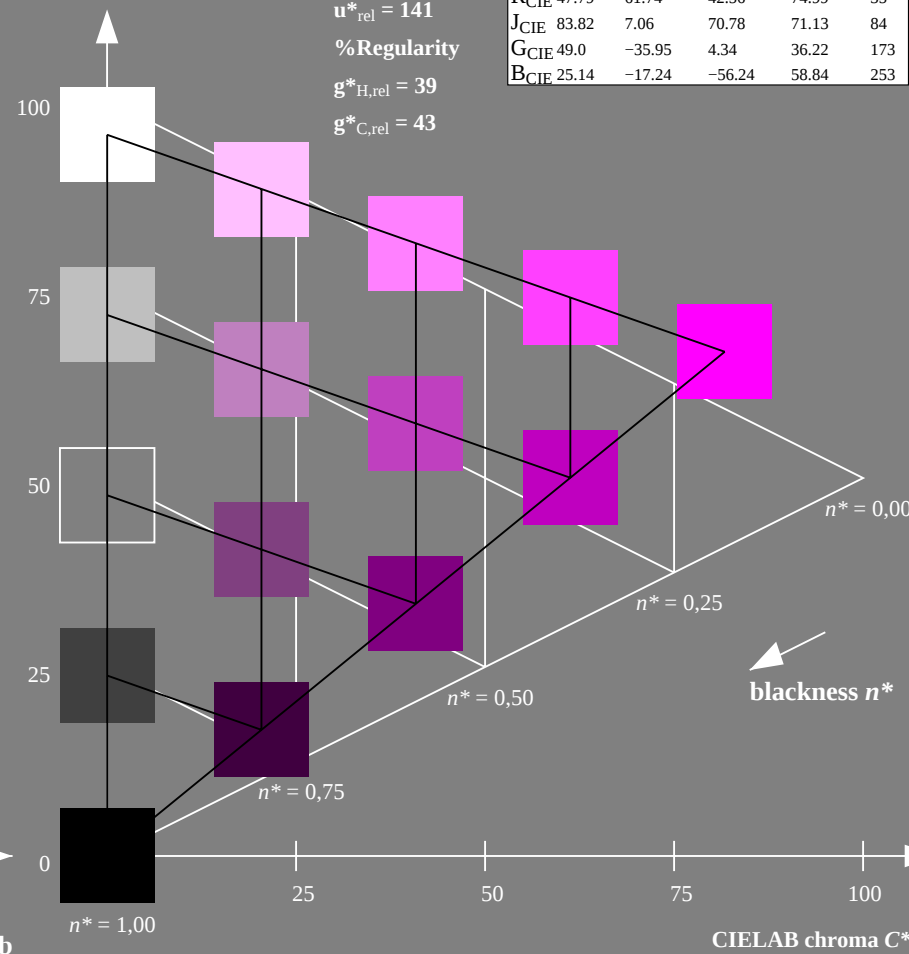
 $u^*_{rel} = 141$

%Regularity

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

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



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

input: olv* setrgbcolor

output: Startup (S) data dependend



Input: Colorimetric Offset Reflective System ORS18

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

LAB*LCH, LAB*NCH

A: hue R

LCH*Ma: 49 79 34

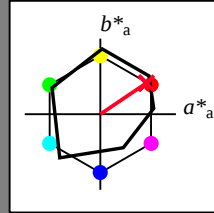
olv*Ma: 1.0 0.0 0.15

CIE LAB lightness L^*

%Gamut

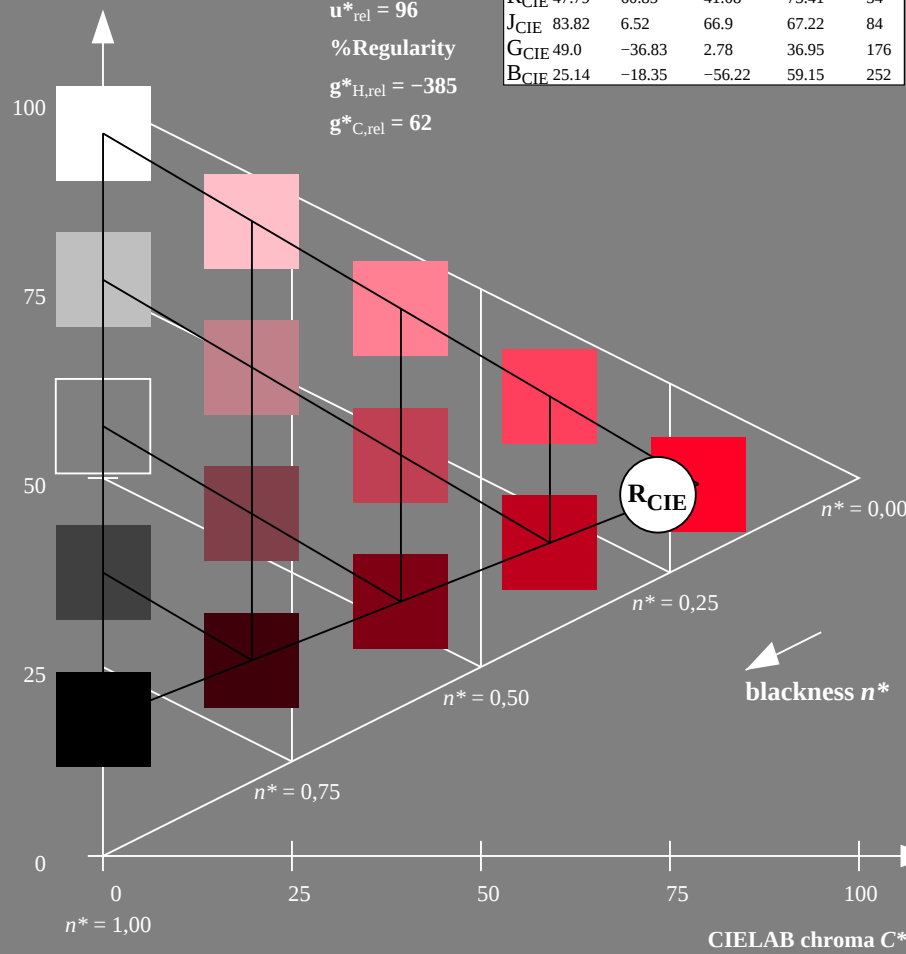
 $u^*_{rel} = 96$

%Regularity

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

ORS18; adapted (a) CIE LAB 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



RE300-7, 5 step scales for constant CIE LAB hue 34/360 = 0.095 (left)

Output: Colorimetric Television Luminous System TLS00

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

LAB*LCH, LAB*NCH

A: hue R

LCH*Ma: 66 89 35

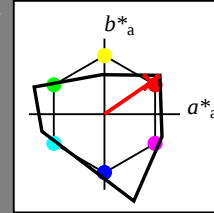
olv*Ma: 1.0 0.0 0.01

CIE LAB lightness L^*

%Gamut

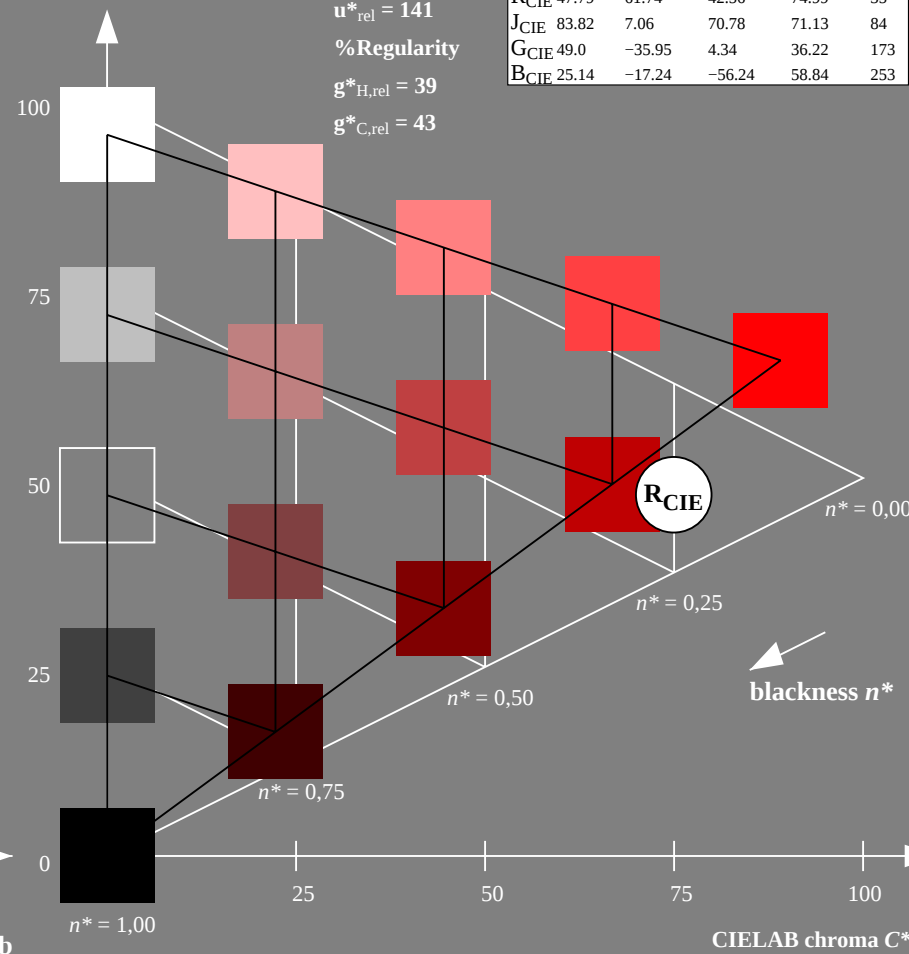
 $u^*_{rel} = 141$

%Regularity

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

TLS00; adapted (a) CIE LAB 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



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

BAM-test chart RE30; Colorimetric systems ORS18 & ORS18

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

input: olv* setrgbcolor

output: Startup (S) data depend

Input: Colorimetric Offset Reflective System ORS18

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

LAB*LCH, LAB*NCH

A: hue J

LCH*Ma: 89 83 84

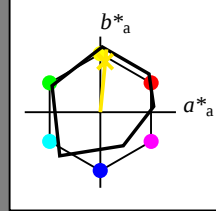
olv*Ma: 1.0 0.91 0.0

CIE LAB lightness L^*

%Gamut

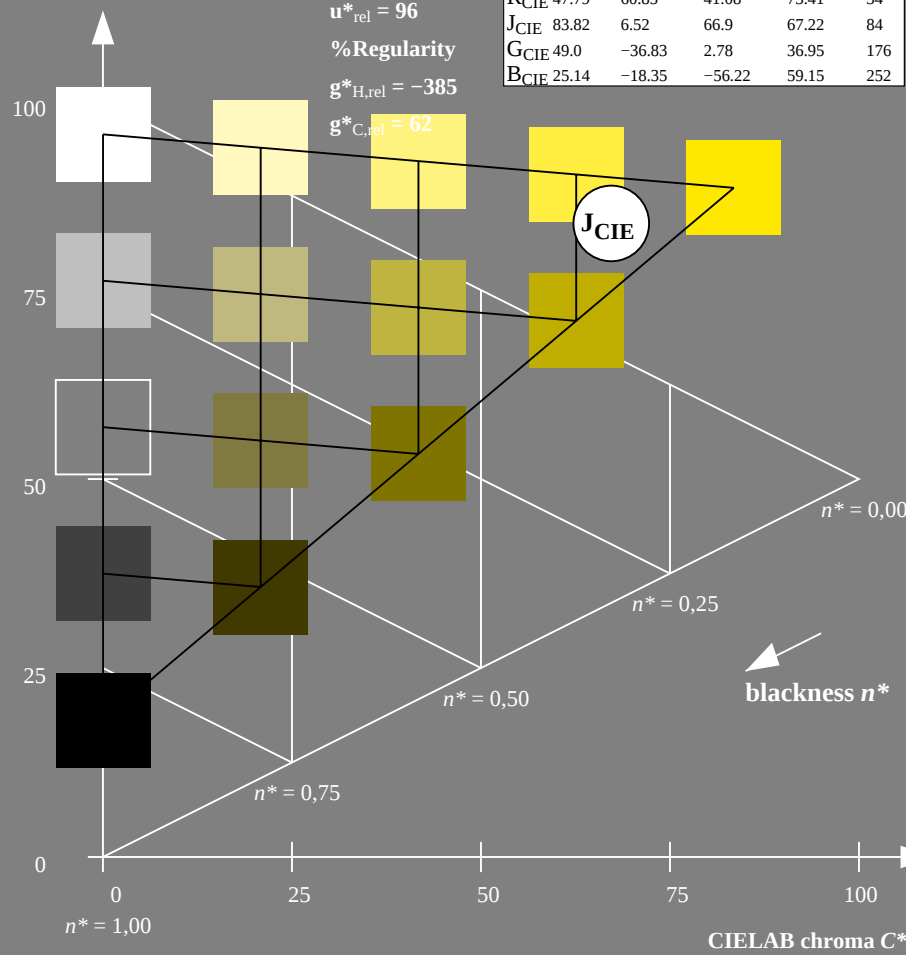
 $u^*_{rel} = 96$

%Regularity

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

ORS18; adapted (a) CIE LAB 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



RE300-7, 5 step scales for constant CIE LAB hue 84/360 = 0.235 (left)

BAM-test chart RE30; Colorimetric systems ORS18 & ORS18

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

Output: Colorimetric Television Luminous System TLS00

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

LAB*LCH, LAB*NCH

A: hue J

LCH*Ma: 91 52 84

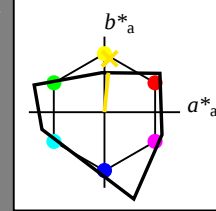
olv*Ma: 1.0 0.89 0.0

CIE LAB lightness L^*

%Gamut

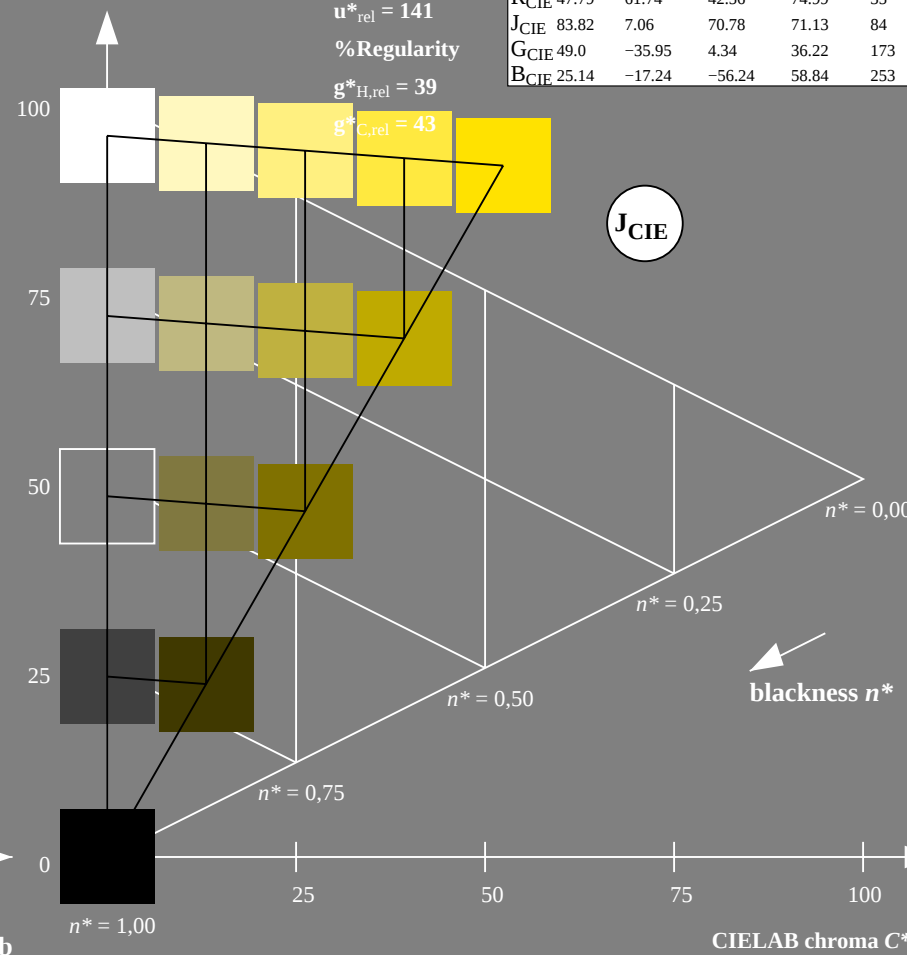
 $u^*_{rel} = 141$

%Regularity

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

TLS00; adapted (a) CIE LAB 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



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

input: olv* setrgbcolor

output: Startup (S) data depend

Input: Colorimetric Offset Reflective System ORS18

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

LAB*LCH, LAB*NCH

A: hue G

LCH*Ma: 51 61 176

olv*Ma: 0.0 1.0 0.33

CIE LAB lightness L^*

%Gamut

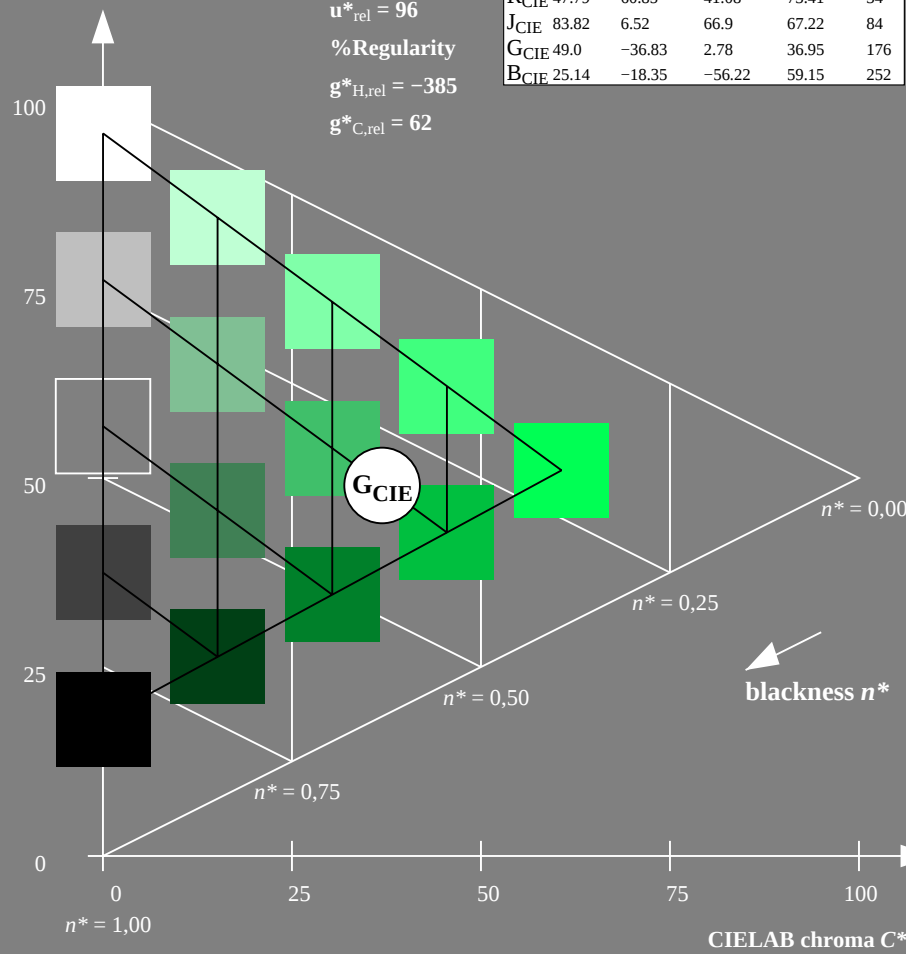
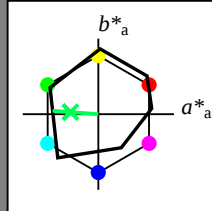
 $u^*_{rel} = 96$

%Regularity

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

ORS18; adapted (a) CIE LAB 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



RE300-7, 5 step scales for constant CIE LAB hue 176/360 = 0.488 (left)

BAM-test chart RE30; Colorimetric systems ORS18 & ORS18

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

Output: Colorimetric Television Luminous System TLS00

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

LAB*LCH, LAB*NCH

A: hue G

LCH*Ma: 78 89 173

olv*Ma: 0.0 1.0 0.43

CIE LAB lightness L^*

%Gamut

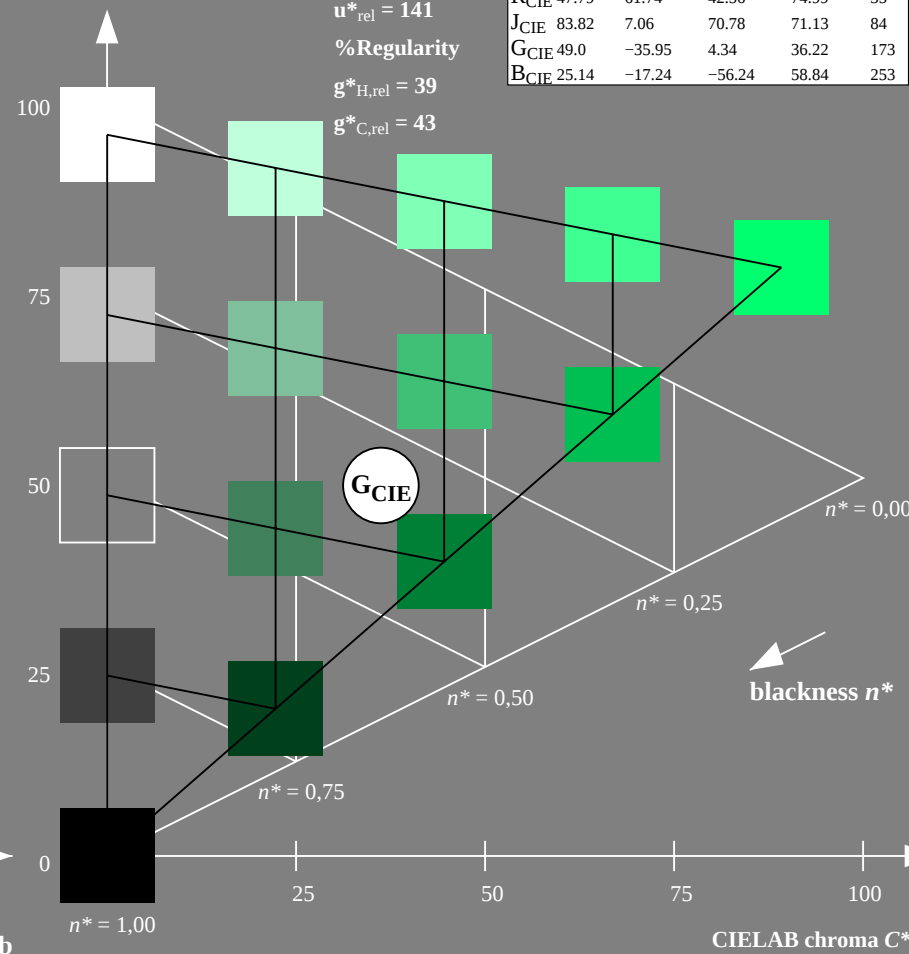
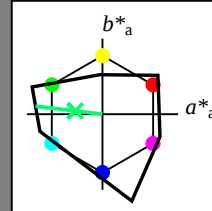
 $u^*_{rel} = 141$

%Regularity

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

TLS00; adapted (a) CIE LAB 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



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

input: olv* setrgbcolor

output: Startup (S) data depend

Input: Colorimetric Offset Reflective System ORS18

for hue $h^* = lab \cdot h = 252/360 = 0.7$

LAB*LCH, LAB*NCH

A: hue B

LCH*Ma: 40 55 252

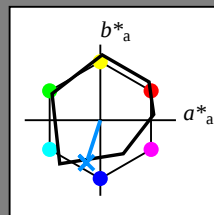
olv*Ma: 0.0 0.56 1.0

CIELAB lightness L^*

%Gamut

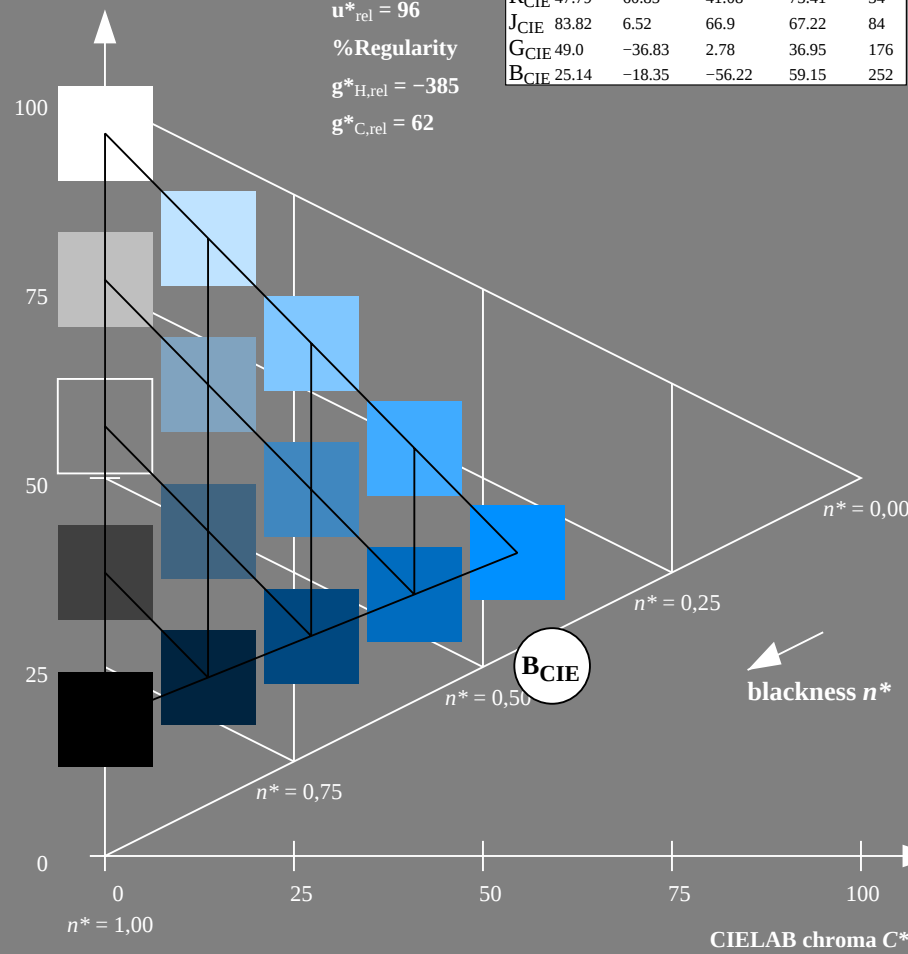
 $u^*_{rel} = 96$

%Regularity

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

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



RE300-7, 5 step scales for constant CIELAB hue 252/360 = 0.7 (left)

BAM-test chart RE30; Colorimetric systems ORS18 & ORS18

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

Output: Colorimetric Television Luminous System TLS00

for hue $h^* = lab \cdot h = 253/360 = 0.703$

LAB*LCH, LAB*NCH

A: hue B

LCH*Ma: 45 72 253

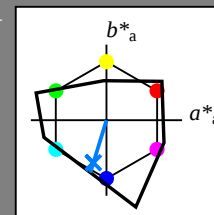
olv*Ma: 0.0 0.49 1.0

CIELAB lightness L^*

%Gamut

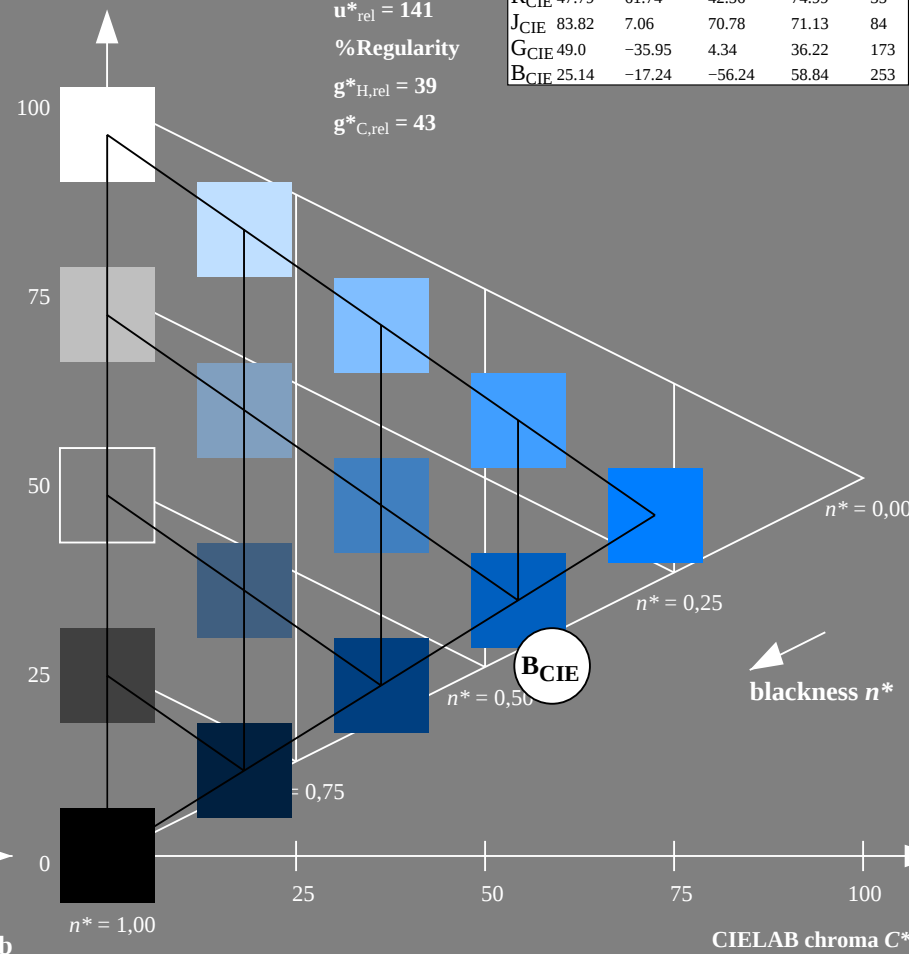
 $u^*_{rel} = 141$

%Regularity

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

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



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

input: olv* setrgbcolor

output: Startup (S) data depend