www.ps.bam.de/PE20/10L/L20E00NP.PS/.PDF; start output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

See for similar files: http://www.ps.bam.de/PE20/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20060101-PE20/10L/L20E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/PE20/ Form: 1/10, Serie: 1/1, Page: 1 Page: count: 1

Input: Colorimetric Offset Reflective System ORS18

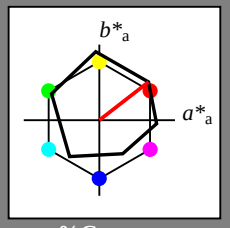
for hue *h = *lab*h* = 38/360 = 0.105**

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 82 38

olv*Ma: 1.0 0.0 0.0



%Gamut

u^*_{rel} = 94

%Regularity

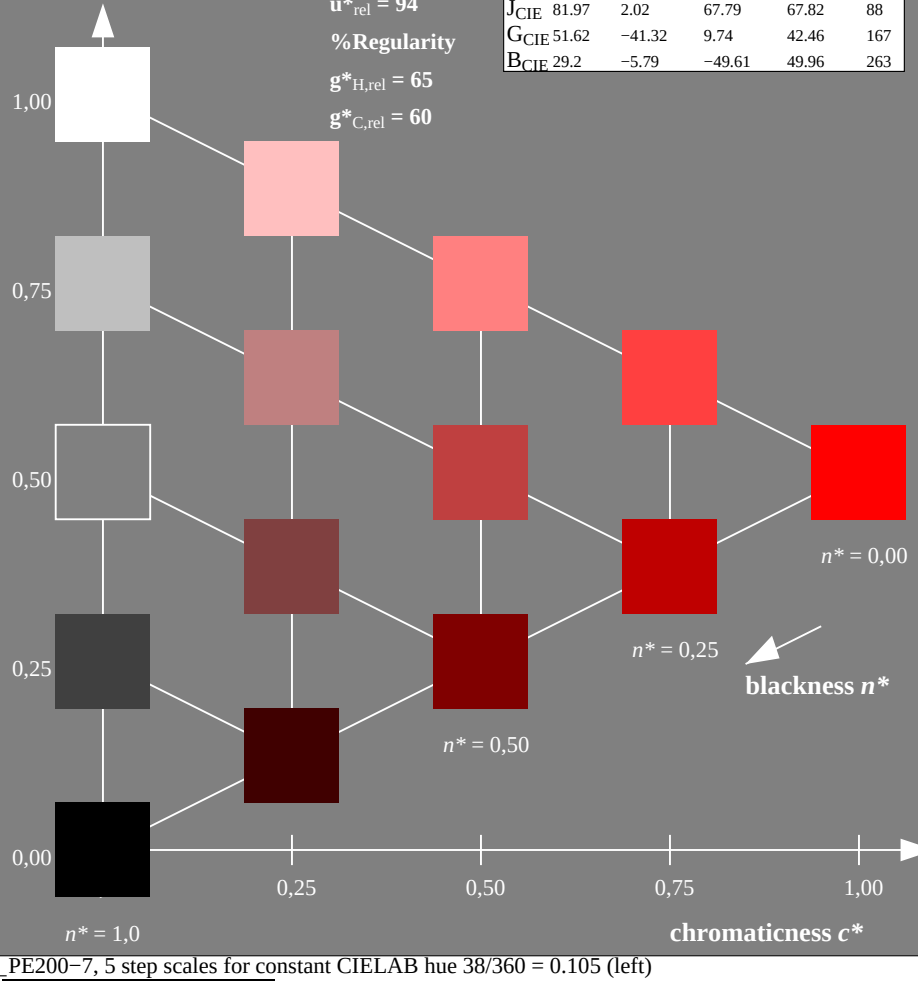
$g^*_{H,rel}$ = 65

$g^*_{C,rel}$ = 60

ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	47.94	65.05	50.54	82.38	38
Y_m	91.0	−4.72	90.58	90.7	93
L_m	50.9	−63.18	34.98	72.22	151
C_m	56.99	−39.34	−48.1	62.16	231
V_m	25.72	30.89	−44.4	54.09	305
M_m	49.99	75.76	−4.64	75.9	356
N_m	18.09	0.0	0.0	0.0	0
W_m	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

triangle lightness *t**



Output: Colorimetric Television Luminous System TLS00

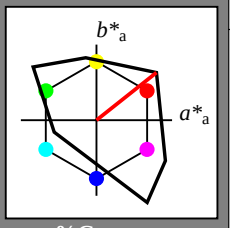
for hue *h = *lab*h* = 38/360 = 0.107**

LAB*LCH, LAB*NCH

D65: hue O

LCH*Ma: 54 101 38

olv*Ma: 1.0 0.0 0.0



%Gamut

u^*_{rel} = 156

%Regularity

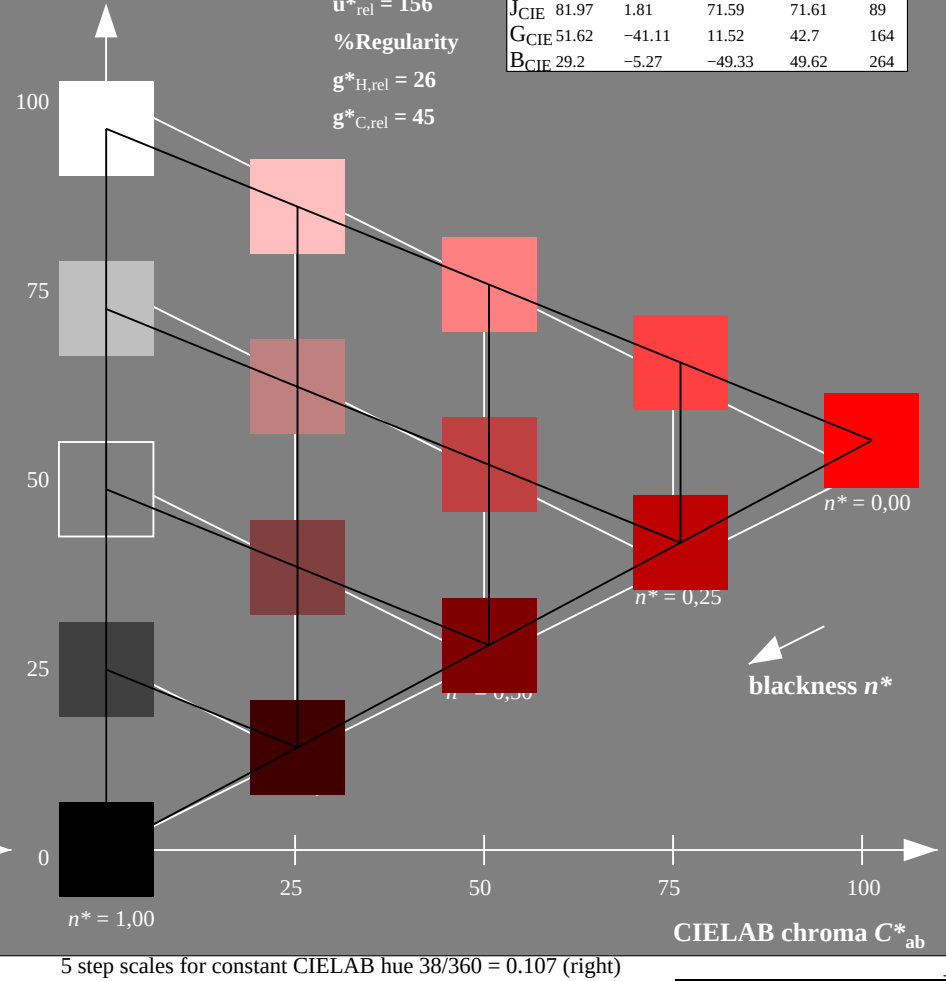
$g^*_{H,rel}$ = 26

$g^*_{C,rel}$ = 45

TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	54.19	79.36	63.0	101.33	38
Y_m	93.44	−14.18	82.59	83.8	100
L_m	82.82	−83.73	70.41	109.41	140
C_m	85.22	−55.9	−15.78	58.1	196
V_m	25.61	67.05	−108.87	127.87	302
M_m	58.76	91.18	−53.69	105.82	330
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

CIELAB lightness *L**



PE200−7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

5 step scales for constant CIELAB hue 38/360 = 0.107 (right)

BAM-test chart PE20; Colorimetric systems ORS18 & TLS00
D50: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Offset Reflective System ORS18

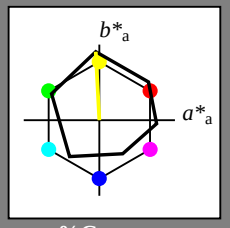
for hue *h = *lab*h* = 93/360 = 0.258**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 91 91 93

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_m	47.94	65.05	50.54	82.38	38
Y_m	91.0	−4.72	90.58	90.7	93
L_m	50.9	−63.18	34.98	72.22	151
C_m	56.99	−39.34	−48.1	62.16	231
V_m	25.72	30.89	−44.4	54.09	305
M_m	49.99	75.76	−4.64	75.9	356
N_m	18.09	0.0	0.0	0.0	0
W_m	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

triangle lightness *t**

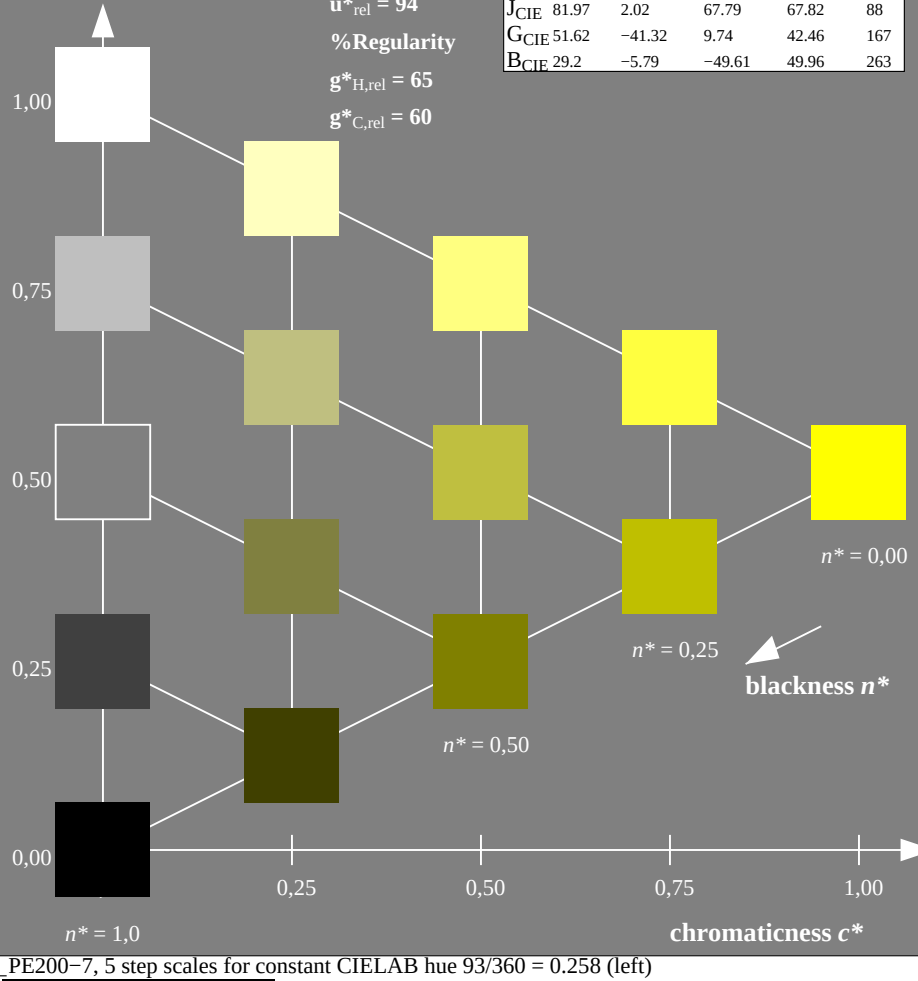
%Gamut

u^*_{rel} = 94

%Regularity

$g^*_{H,rel}$ = 65

$g^*_{C,rel}$ = 60



Output: Colorimetric Television Luminous System TLS00

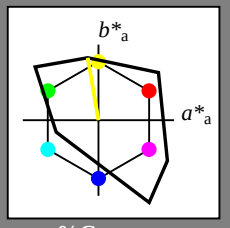
for hue *h = *lab*h* = 100/360 = 0.277**

LAB*LCH, LAB*NCH

D65: hue Y

LCH*Ma: 93 84 100

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_m	54.19	79.36	63.0	101.33	38
Y_m	93.44	−14.18	82.59	83.8	100
L_m	82.82	−83.73	70.41	109.41	140
C_m	85.22	−55.9	−15.78	58.1	196
V_m	25.61	67.05	−108.87	127.87	302
M_m	58.76	91.18	−53.69	105.82	330
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

CIELAB lightness *L**

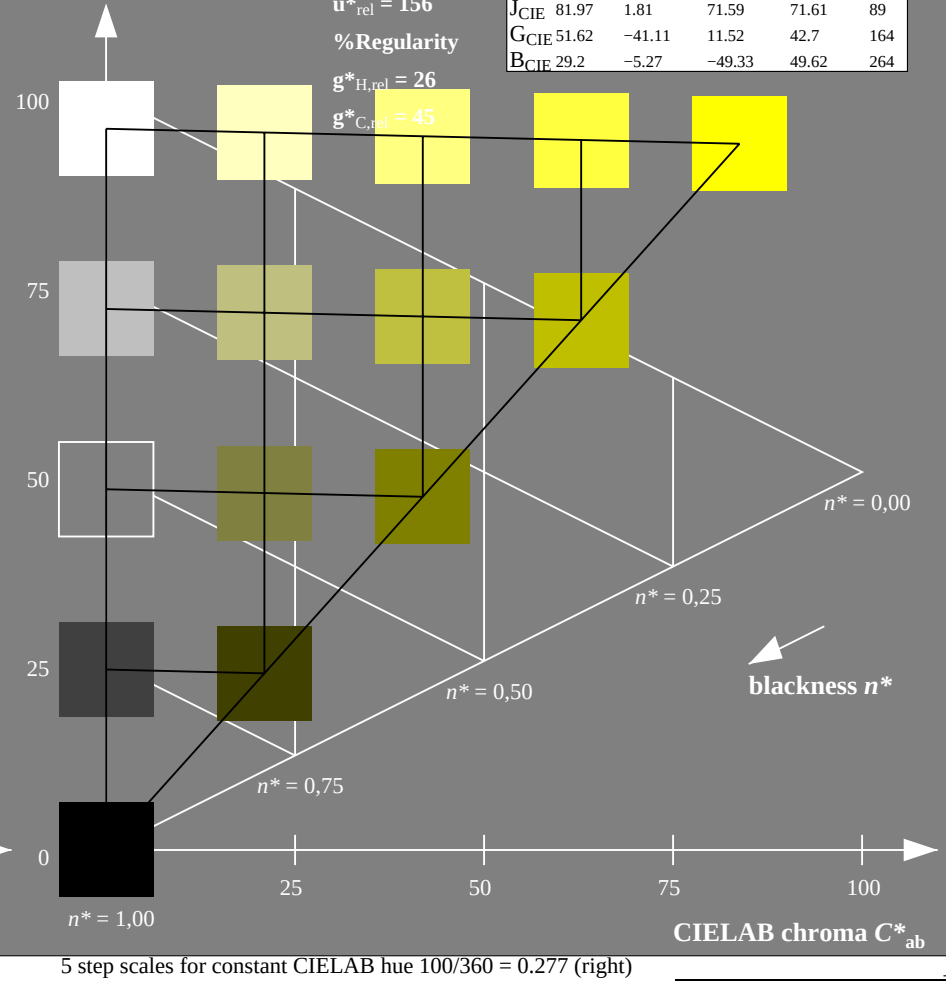
%Gamut

u^*_{rel} = 156

%Regularity

$g^*_{H,rel}$ = 26

$g^*_{C,rel}$ = 45



PE200−7, 5 step scales for constant CIELAB hue 93/360 = 0.258 (left)

5 step scales for constant CIELAB hue 100/360 = 0.277 (right)

BAM-test chart PE20; Colorimetric systems ORS18 & TLS00
D50: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Offset Reflective System ORS18

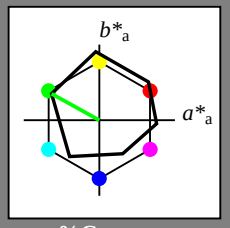
for hue *h = *lab*h* = 151/360 = 0.42**

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 51 72 151

olv*Ma: 0.0 1.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	47.94	65.05	50.54	82.38	38
Y_m	91.0	−4.72	90.58	90.7	93
L_m	50.9	−63.18	34.98	72.22	151
C_m	56.99	−39.34	−48.1	62.16	231
V_m	25.72	30.89	−44.4	54.09	305
M_m	49.99	75.76	−4.64	75.9	356
N_m	18.09	0.0	0.0	0.0	0
W_m	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

triangle lightness *t**

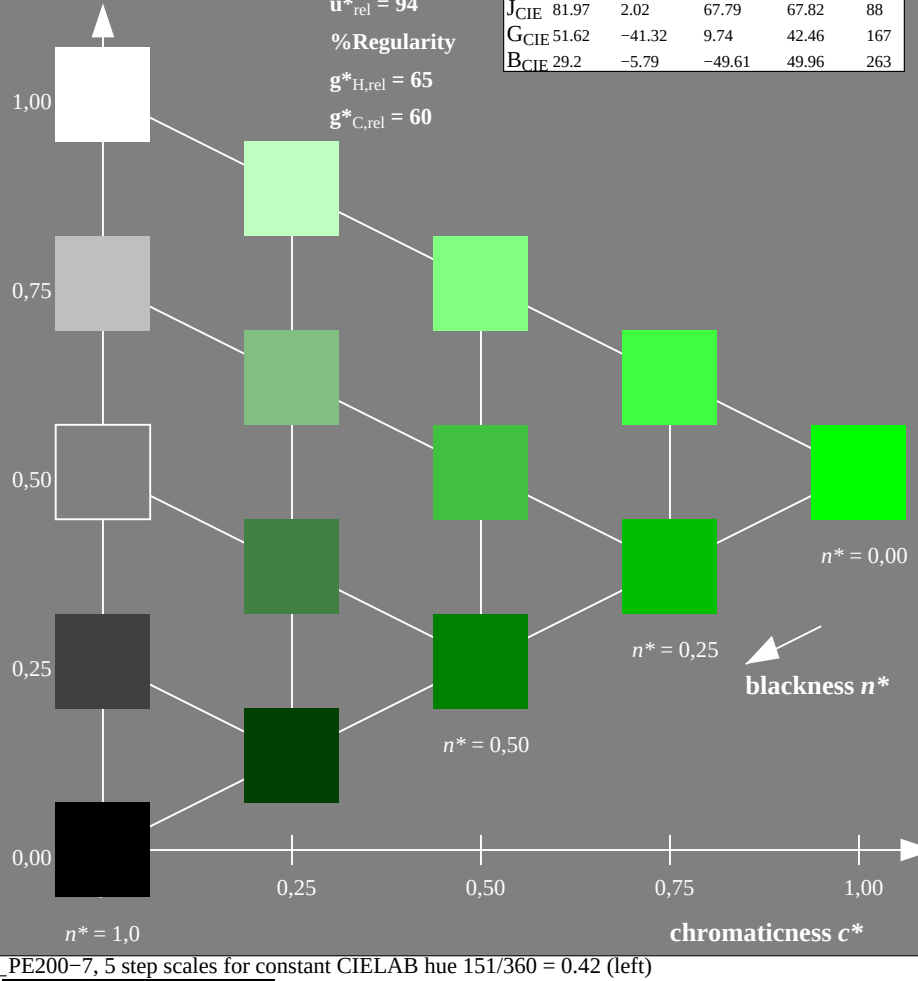
%Gamut

u^*_{rel} = 94

%Regularity

$g^*_{H,rel}$ = 65

$g^*_{C,rel}$ = 60



Output: Colorimetric Television Luminous System TLS00

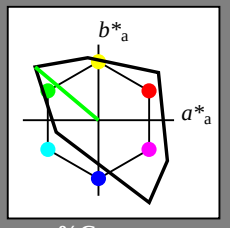
for hue *h = *lab*h* = 140/360 = 0.389**

LAB*LCH, LAB*NCH

D65: hue L

LCH*Ma: 83 109 140

olv*Ma: 0.0 1.0 0.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	54.19	79.36	63.0	101.33	38
Y_m	93.44	−14.18	82.59	83.8	100
L_m	82.82	−83.73	70.41	109.41	140
C_m	85.22	−55.9	−15.78	58.1	196
V_m	25.61	67.05	−108.87	127.87	302
M_m	58.76	91.18	−53.69	105.82	330
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

CIELAB lightness *L**

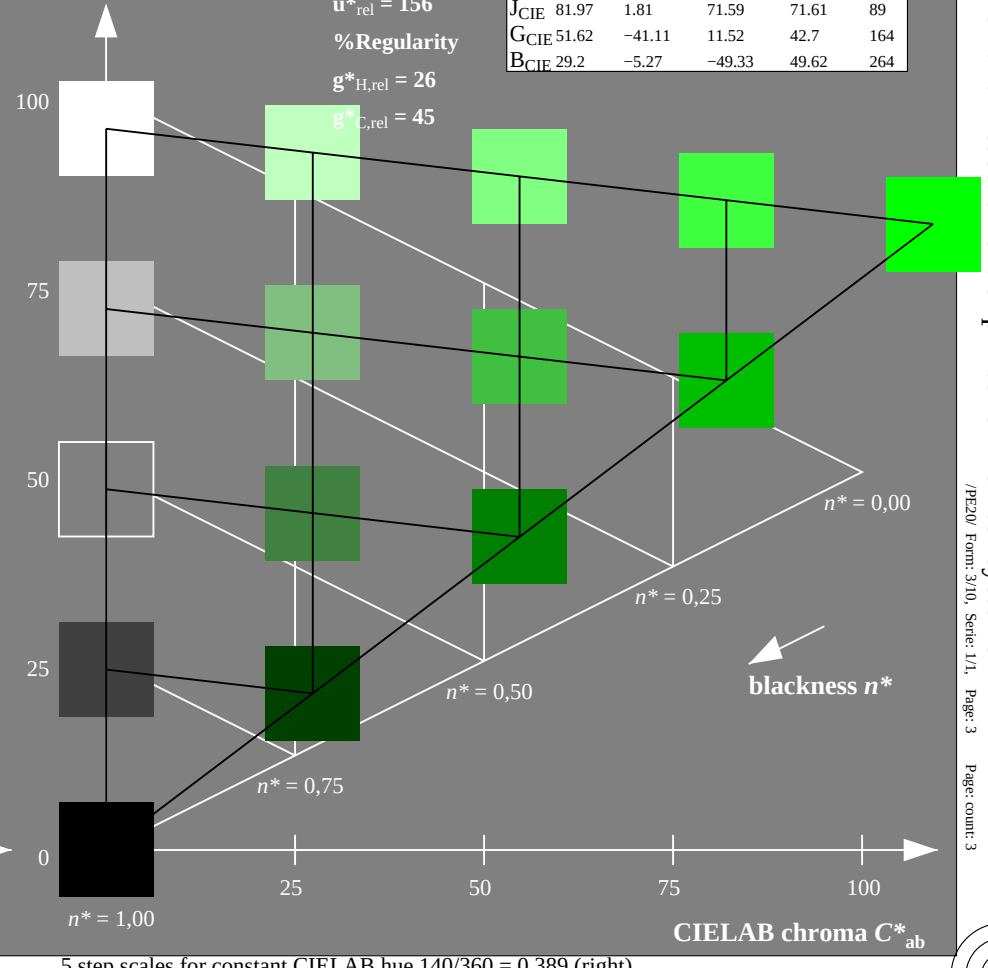
%Gamut

u^*_{rel} = 156

%Regularity

$g^*_{H,rel}$ = 26

$g^*_{C,rel}$ = 45



PE200−7, 5 step scales for constant CIELAB hue 151/360 = 0.42 (left)

5 step scales for constant CIELAB hue 140/360 = 0.389 (right)

BAM-test chart PE20; Colorimetric systems ORS18 & TLS00
D50: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Offset Reflective System ORS18

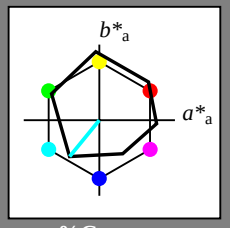
for hue *h = *lab*h* = 231/360 = 0.641**

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 57 62 231

olv*Ma: 0.0 1.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	47.94	65.05	50.54	82.38	38
Y_m	91.0	−4.72	90.58	90.7	93
L_m	50.9	−63.18	34.98	72.22	151
C_m	56.99	−39.34	−48.1	62.16	231
V_m	25.72	30.89	−44.4	54.09	305
M_m	49.99	75.76	−4.64	75.9	356
N_m	18.09	0.0	0.0	0.0	0
W_m	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

triangle lightness *t**

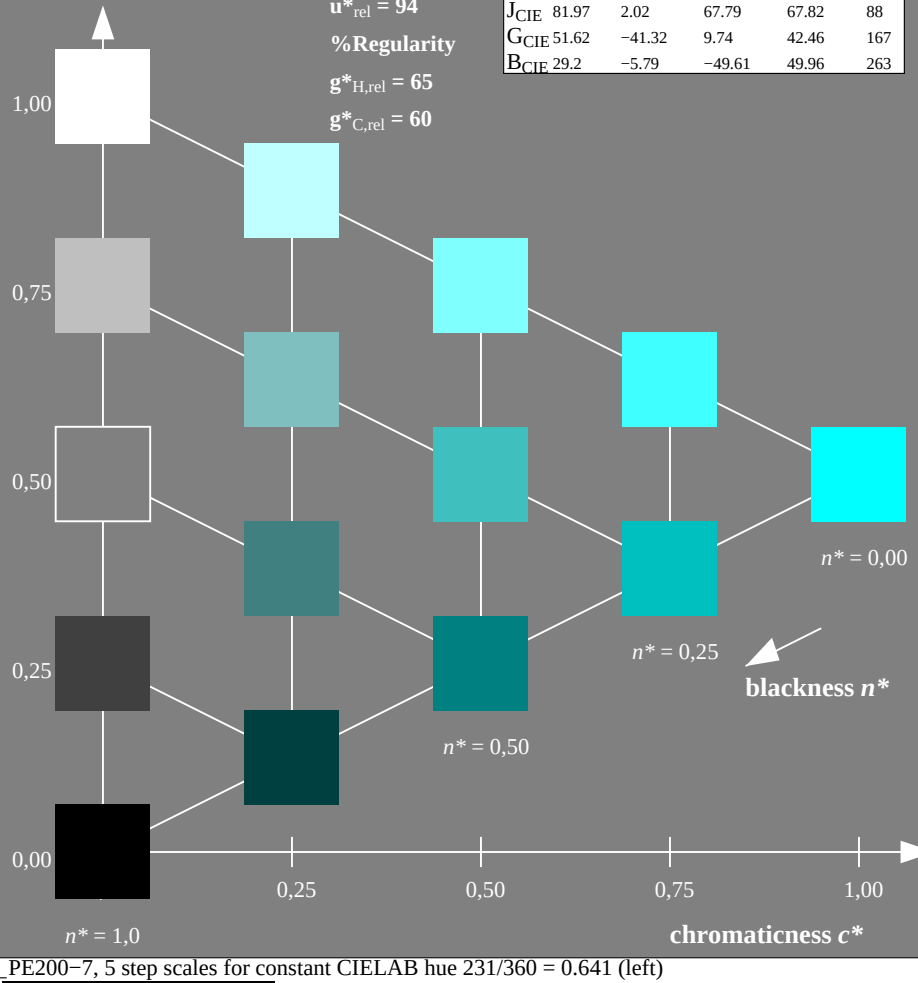
%Gamut

u^*_{rel} = 94

%Regularity

$g^*_{H,rel}$ = 65

$g^*_{C,rel}$ = 60



Output: Colorimetric Television Luminous System TLS00

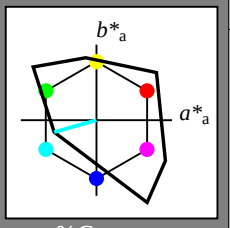
for hue *h = *lab*h* = 196/360 = 0.544**

LAB*LCH, LAB*NCH

D65: hue C

LCH*Ma: 85 58 196

olv*Ma: 0.0 1.0 1.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	54.19	79.36	63.0	101.33	38
Y_m	93.44	−14.18	82.59	83.8	100
L_m	82.82	−83.73	70.41	109.41	140
C_m	85.22	−55.9	−15.78	58.1	196
V_m	25.61	67.05	−108.87	127.87	302
M_m	58.76	91.18	−53.69	105.82	330
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

CIELAB lightness *L**

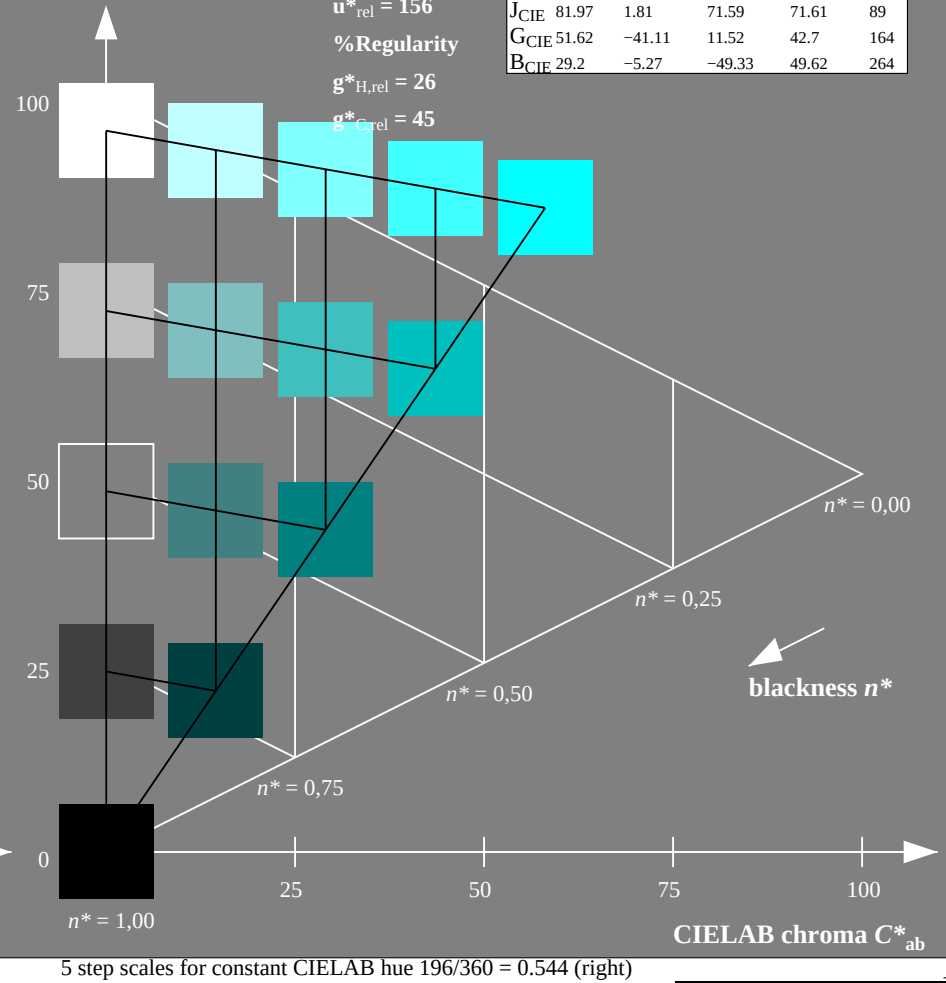
%Gamut

u^*_{rel} = 156

%Regularity

$g^*_{H,rel}$ = 26

$g^*_{C,rel}$ = 45



PE200−7, 5 step scales for constant CIELAB hue 231/360 = 0.641 (left)

5 step scales for constant CIELAB hue 196/360 = 0.544 (right)

BAM-test chart PE20; Colorimetric systems ORS18 & TLS00
D50: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Offset Reflective System ORS18

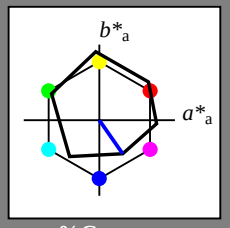
for hue *h = *lab*h* = 305/360 = 0.847**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 26 54 305

olv*Ma: 0.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	47.94	65.05	50.54	82.38	38
Y_m	91.0	−4.72	90.58	90.7	93
L_m	50.9	−63.18	34.98	72.22	151
C_m	56.99	−39.34	−48.1	62.16	231
V_m	25.72	30.89	−44.4	54.09	305
M_m	49.99	75.76	−4.64	75.9	356
N_m	18.09	0.0	0.0	0.0	0
W_m	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

triangle lightness *t**

%Gamut

u^*_{rel} = 94

%Regularity

$g^*_{H,rel}$ = 65

$g^*_{C,rel}$ = 60

1,00
0,75
0,50
0,25
0,00

*n** = 0,00
*n** = 0,25
*n** = 0,50
*n** = 1,0

blackness *n**

0,25 0,50 0,75 1,00

chromaticness *c**

PE200−7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

Output: Colorimetric Television Luminous System TLS00

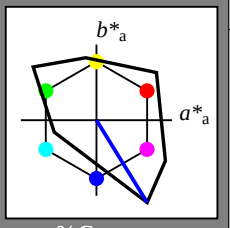
for hue *h = *lab*h* = 302/360 = 0.838**

LAB*LCH, LAB*NCH

D65: hue V

LCH*Ma: 26 128 302

olv*Ma: 0.0 0.0 1.0



TLS00; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	54.19	79.36	63.0	101.33	38
Y_m	93.44	−14.18	82.59	83.8	100
L_m	82.82	−83.73	70.41	109.41	140
C_m	85.22	−55.9	−15.78	58.1	196
V_m	25.61	67.05	−108.87	127.87	302
M_m	58.76	91.18	−53.69	105.82	330
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

CIELAB lightness *L**

%Gamut

u^*_{rel} = 156

%Regularity

$g^*_{H,rel}$ = 26

$g^*_{C,rel}$ = 45

100
75
50
25
0

*n** = 0,25
*n** = 0,50
*n** = 1,00

bla*

25 50 75 100

CIELAB chroma C^*_{ab}

5 step scales for constant CIELAB hue 302/360 = 0.838 (right)

Input: Colorimetric Offset Reflective System ORS18

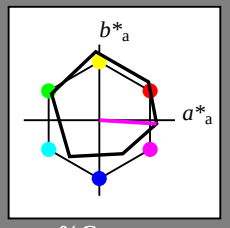
for hue *h = *lab*h* = 356/360 = 0.99**

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 50 76 356

olv*Ma: 1.0 0.0 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	47.94	65.05	50.54	82.38	38
Y_m	91.0	−4.72	90.58	90.7	93
L_m	50.9	−63.18	34.98	72.22	151
C_m	56.99	−39.34	−48.1	62.16	231
V_m	25.72	30.89	−44.4	54.09	305
M_m	49.99	75.76	−4.64	75.9	356
N_m	18.09	0.0	0.0	0.0	0
W_m	95.46	0.0	0.0	0.0	0
R_{CIE}	41.88	61.66	30.69	68.88	26
J_{CIE}	81.97	2.02	67.79	67.82	88
G_{CIE}	51.62	−41.32	9.74	42.46	167
B_{CIE}	29.2	−5.79	−49.61	49.96	263

triangle lightness *t**

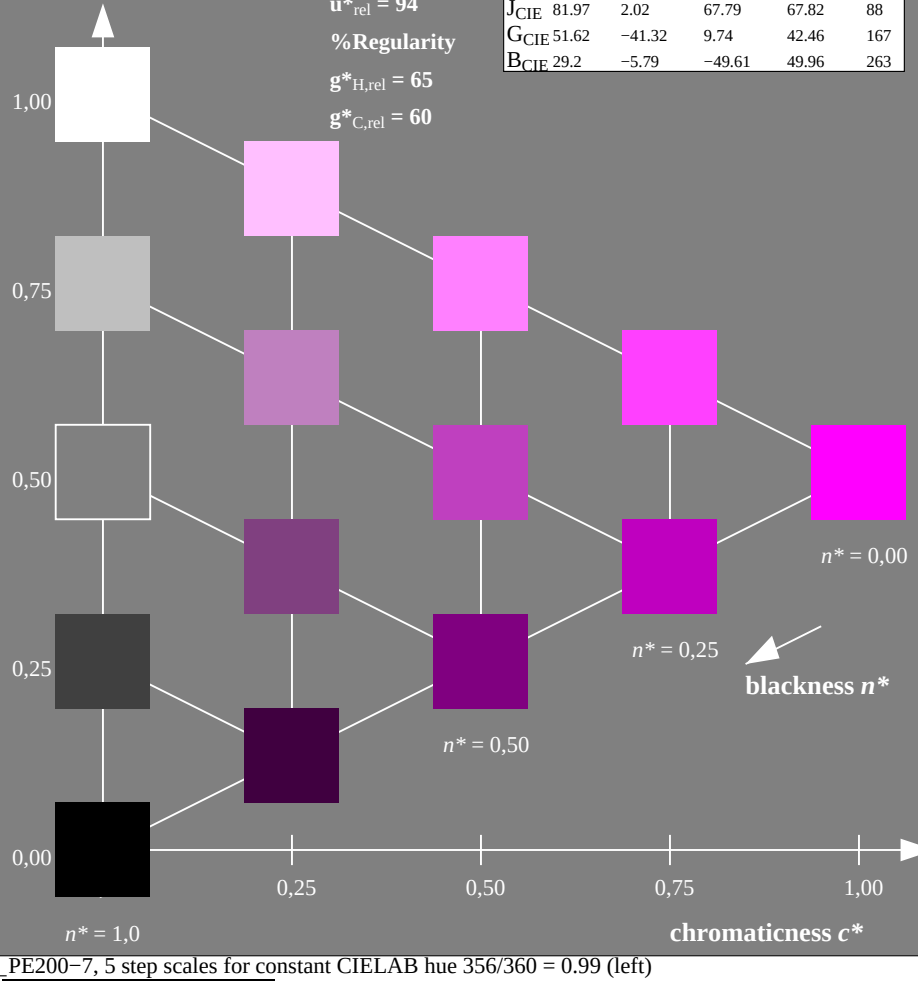
%Gamut

u^*_{rel} = 94

%Regularity

$g^*_{H,rel}$ = 65

$g^*_{C,rel}$ = 60



Output: Colorimetric Television Luminous System TLS00

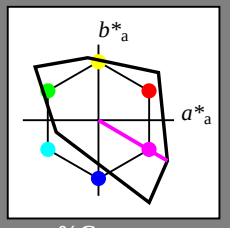
for hue *h = *lab*h* = 330/360 = 0.915**

LAB*LCH, LAB*NCH

D65: hue M

LCH*Ma: 59 106 330

olv*Ma: 1.0 0.0 1.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	54.19	79.36	63.0	101.33	38
Y_m	93.44	−14.18	82.59	83.8	100
L_m	82.82	−83.73	70.41	109.41	140
C_m	85.22	−55.9	−15.78	58.1	196
V_m	25.61	67.05	−108.87	127.87	302
M_m	58.76	91.18	−53.69	105.82	330
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	41.88	62.0	31.82	69.69	27
J_{CIE}	81.97	1.81	71.59	71.61	89
G_{CIE}	51.62	−41.11	11.52	42.7	164
B_{CIE}	29.2	−5.27	−49.33	49.62	264

CIELAB lightness *L**

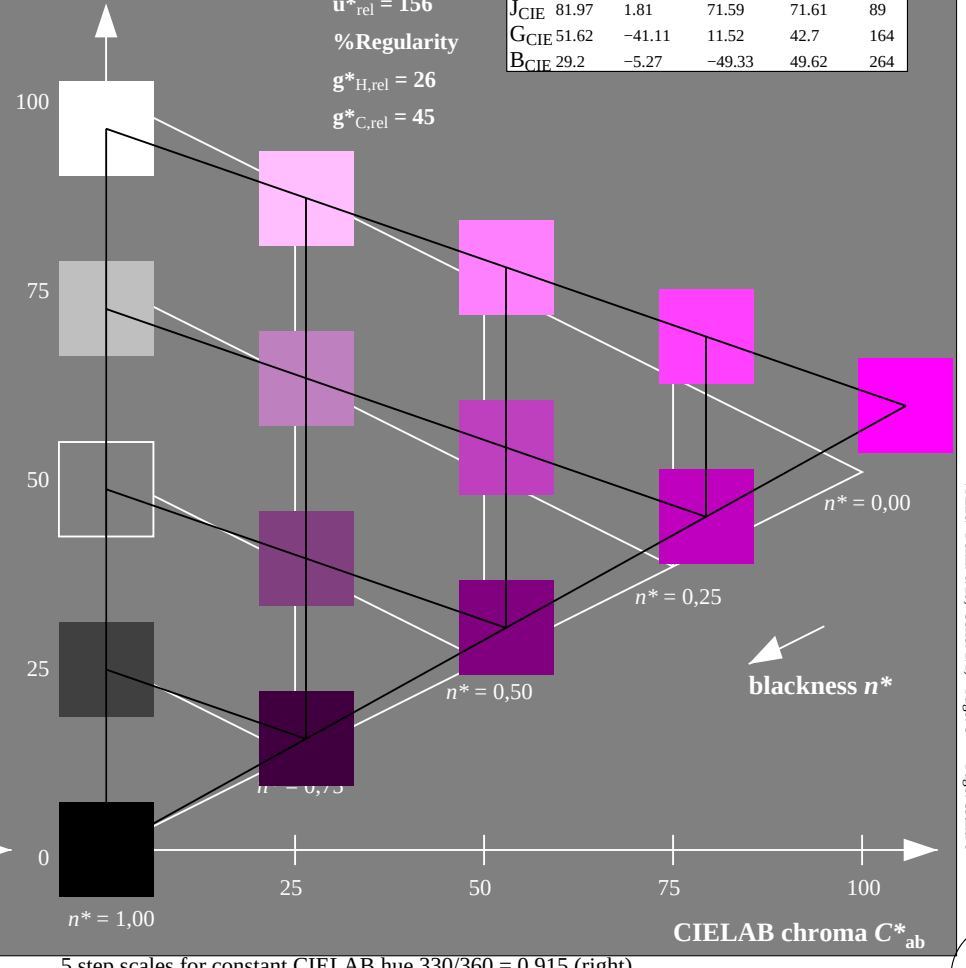
%Gamut

u^*_{rel} = 156

%Regularity

$g^*_{H,rel}$ = 26

$g^*_{C,rel}$ = 45



PE200−7, 5 step scales for constant CIELAB hue 356/360 = 0.99 (left)

5 step scales for constant CIELAB hue 330/360 = 0.915 (right)

BAM-test chart PE20; Colorimetric systems ORS18 & TLS00
D50: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Offset Reflective System ORS18

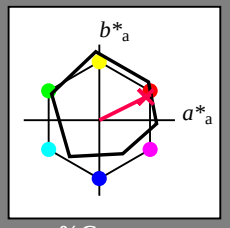
for hue *h = *lab*h* = 26/360 = 0.074**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 49 76 26

olv*Ma: 1.0 0.0 0.3



ORS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	47.94	65.05	50.54	82.38	38
Y_m	91.0	−4.72	90.58	90.7	93
L_m	50.9	−63.18	34.98	72.22	151
C_m	56.99	−39.34	−48.1	62.16	231
V_m	25.72	30.89	−44.4	54.09	305
M_m	49.99	75.76	−4.64	75.9	356
N_m	18.09	0.0	0.0	0.0	0
W_m	95.46	0.0	0.0	0.0	0
R_m	41.88	61.66	30.69	68.88	26
J_m	81.97	2.02	67.79	67.82	88
G_m	51.62	−41.32	9.74	42.46	167
B_m	29.2	−5.79	−49.61	49.96	263

triangle lightness *t**

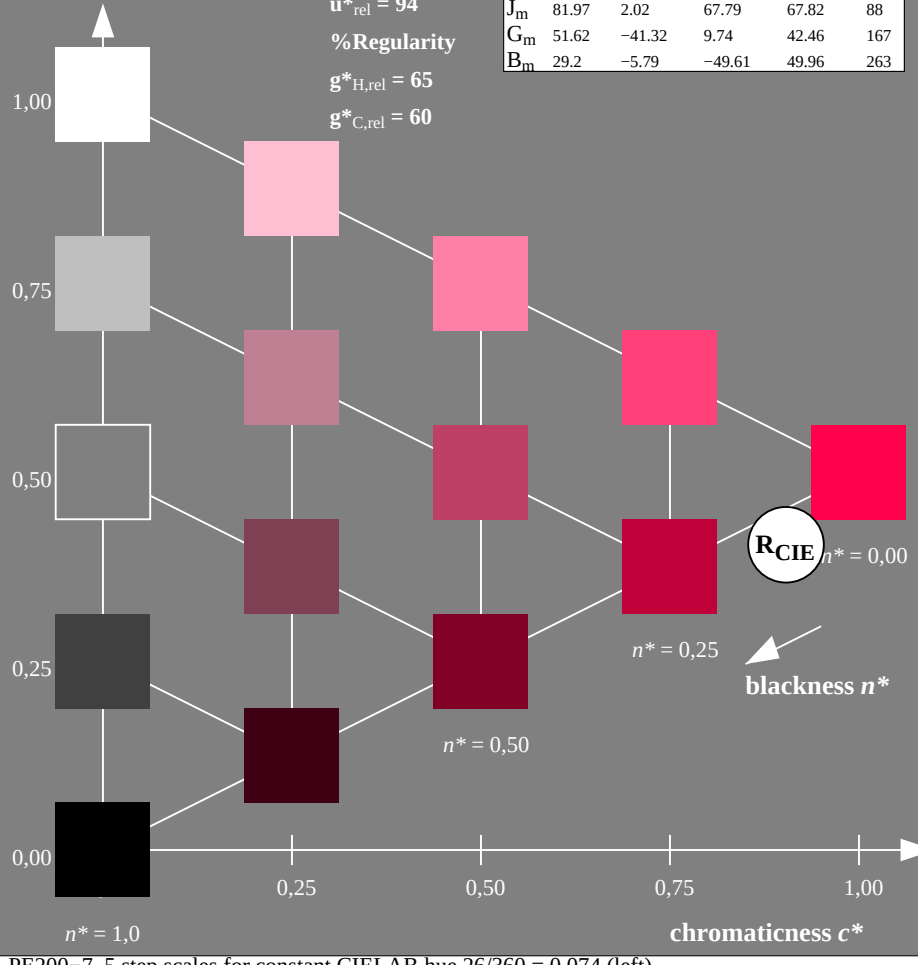
%Gamut

u^*_{rel} = 94

%Regularity

$g^*_{H,rel}$ = 65

$g^*_{C,rel}$ = 60



Output: Colorimetric Television Luminous System TLS00

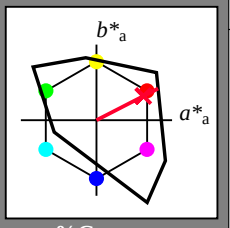
for hue *h = *lab*h* = 27/360 = 0.075**

LAB*LCH, LAB*NCH

D65: hue R

LCH*Ma: 55 92 27

olv*Ma: 1.0 0.0 0.18



TLS00; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	54.19	79.36	63.0	101.33	38
Y_m	93.44	−14.18	82.59	83.8	100
L_m	82.82	−83.73	70.41	109.41	140
C_m	85.22	−55.9	−15.78	58.1	196
V_m	25.61	67.05	−108.87	127.87	302
M_m	58.76	91.18	−53.69	105.82	330
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	41.88	62.0	31.82	69.69	27
J_m	81.97	1.81	71.59	71.61	89
G_m	51.62	−41.11	11.52	42.7	164
B_m	29.2	−5.27	−49.33	49.62	264

CIELAB lightness *L**

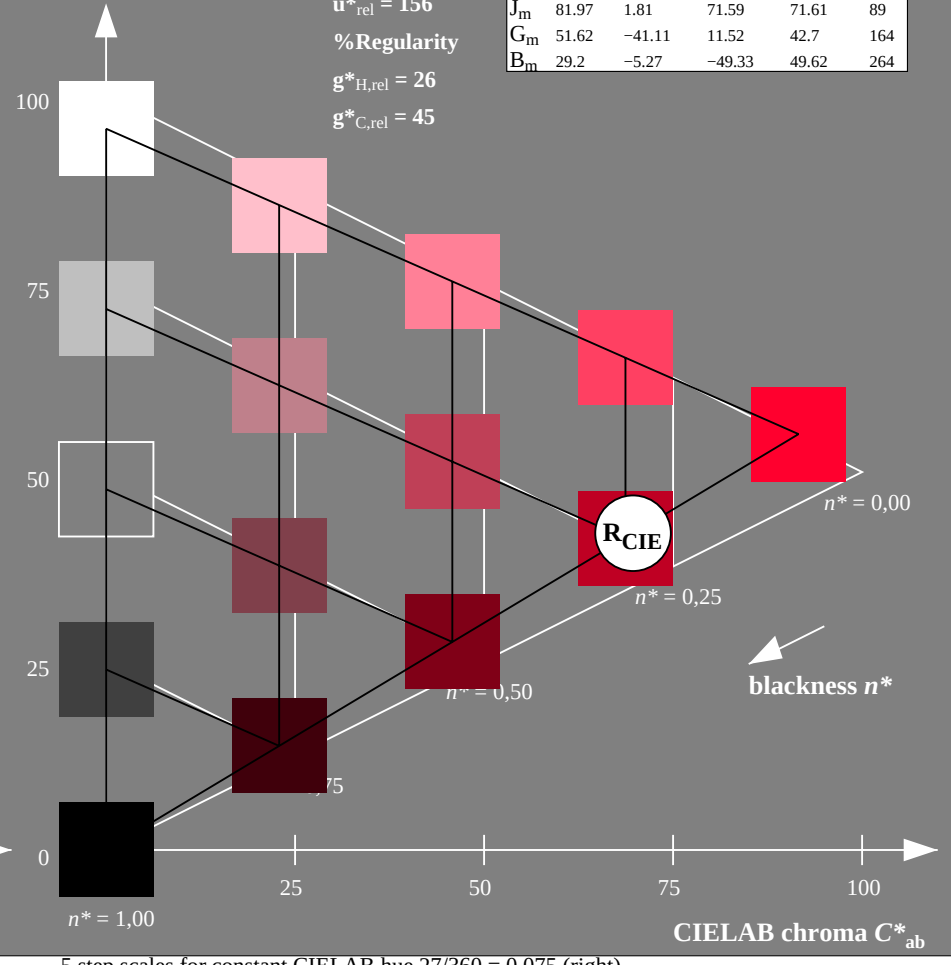
%Gamut

u^*_{rel} = 156

%Regularity

$g^*_{H,rel}$ = 26

$g^*_{C,rel}$ = 45



PE200−7, 5 step scales for constant CIELAB hue 26/360 = 0.074 (left)

5 step scales for constant CIELAB hue 27/360 = 0.075 (right)

BAM-test chart PE20; Colorimetric systems ORS18 & TLS00
D50: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Offset Reflective System ORS18

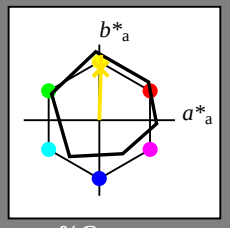
for hue *h = *lab*h* = 88/360 = 0.245**

lab*tch* and *lab*nch

D65: hue J

LCH*Ma: 86 86 88

olv*Ma: 1.0 0.9 0.0



ORS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	47.94	65.05	50.54	82.38	38
Y_m	91.0	−4.72	90.58	90.7	93
L_m	50.9	−63.18	34.98	72.22	151
C_m	56.99	−39.34	−48.1	62.16	231
V_m	25.72	30.89	−44.4	54.09	305
M_m	49.99	75.76	−4.64	75.9	356
N_m	18.09	0.0	0.0	0.0	0
W_m	95.46	0.0	0.0	0.0	0
R_m	41.88	61.66	30.69	68.88	26
J_m	81.97	2.02	67.79	67.82	88
G_m	51.62	−41.32	9.74	42.46	167
B_m	29.2	−5.79	−49.61	49.96	263

triangle lightness *t**

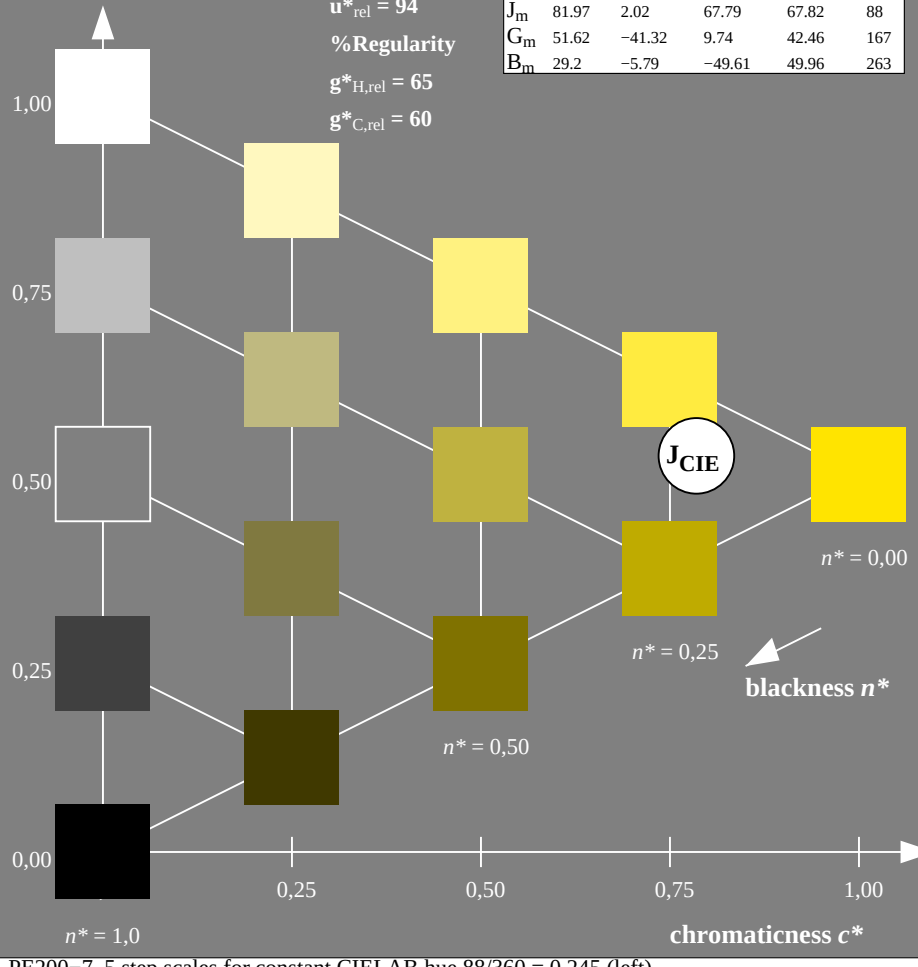
%Gamut

u^*_{rel} = 94

%Regularity

$g^*_{H,rel}$ = 65

$g^*_{C,rel}$ = 60



Output: Colorimetric Television Luminous System TLS00

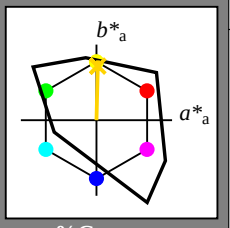
for hue *h = *lab*h* = 89/360 = 0.246**

LAB*LCH, LAB*NCH

D65: hue J

LCH*Ma: 87 79 89

olv*Ma: 1.0 0.83 0.0



TLS00; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	54.19	79.36	63.0	101.33	38
Y_m	93.44	−14.18	82.59	83.8	100
L_m	82.82	−83.73	70.41	109.41	140
C_m	85.22	−55.9	−15.78	58.1	196
V_m	25.61	67.05	−108.87	127.87	302
M_m	58.76	91.18	−53.69	105.82	330
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	41.88	62.0	31.82	69.69	27
J_m	81.97	1.81	71.59	71.61	89
G_m	51.62	−41.11	11.52	42.7	164
B_m	29.2	−5.27	−49.33	49.62	264

CIELAB lightness *L**

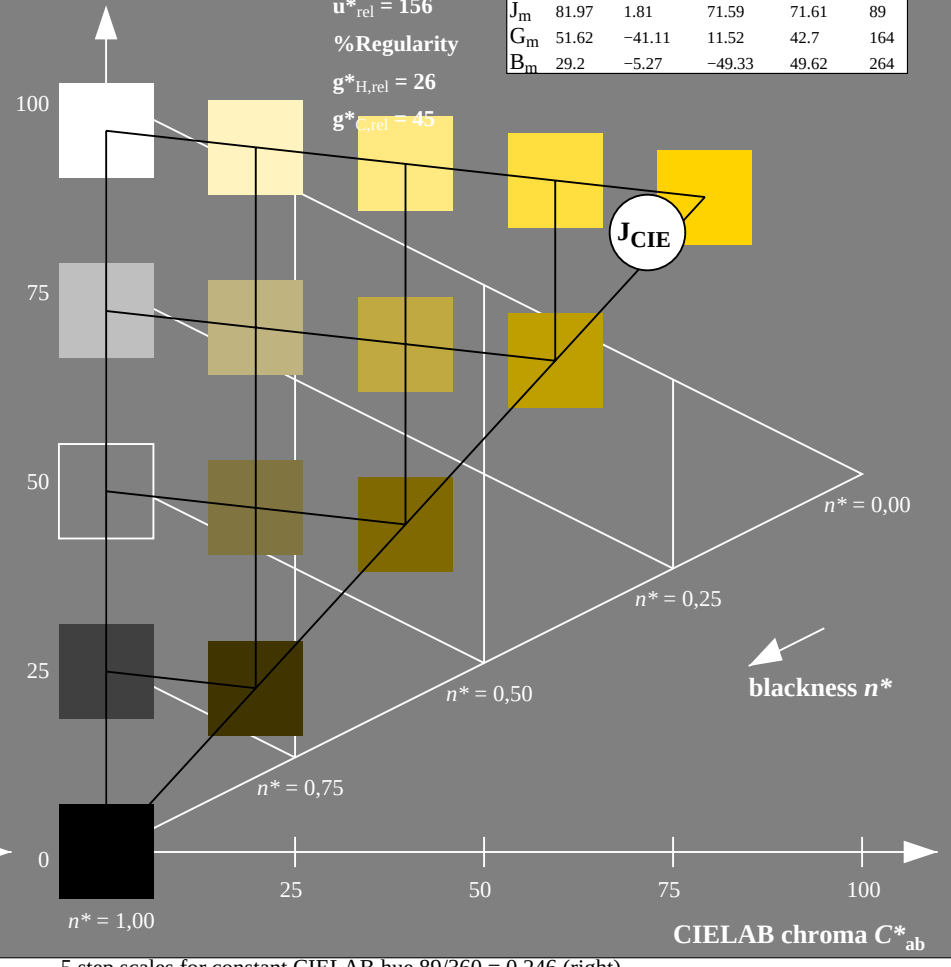
%Gamut

u^*_{rel} = 156

%Regularity

$g^*_{H,rel}$ = 26

$g^*_{C,rel}$ = 45



PE200−7, 5 step scales for constant CIELAB hue 88/360 = 0.245 (left)

5 step scales for constant CIELAB hue 89/360 = 0.246 (right)

BAM-test chart PE20; Colorimetric systems ORS18 & TLS00
D50: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Offset Reflective System ORS18

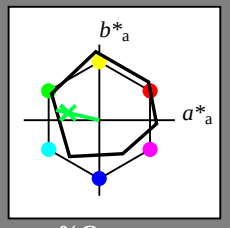
for hue *h = *lab*h* = 167/360 = 0.463**

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 52 59 167

olv*Ma: 0.0 1.0 0.26



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	47.94	65.05	50.54	82.38	38
Y_m	91.0	−4.72	90.58	90.7	93
L_m	50.9	−63.18	34.98	72.22	151
C_m	56.99	−39.34	−48.1	62.16	231
V_m	25.72	30.89	−44.4	54.09	305
M_m	49.99	75.76	−4.64	75.9	356
N_m	18.09	0.0	0.0	0.0	0
W_m	95.46	0.0	0.0	0.0	0
R_m	41.88	61.66	30.69	68.88	26
J_m	81.97	2.02	67.79	67.82	88
G_m	51.62	−41.32	9.74	42.46	167
B_m	29.2	−5.79	−49.61	49.96	263

triangle lightness *t**

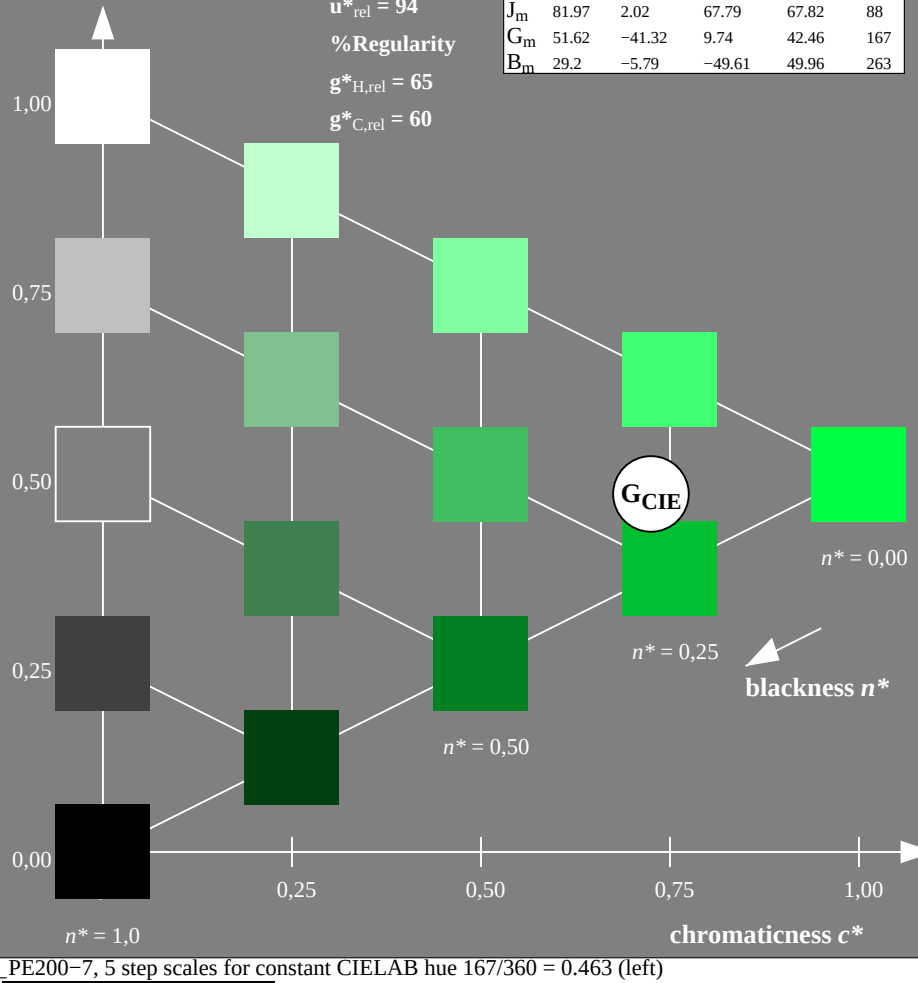
%Gamut

u^*_{rel} = 94

%Regularity

$g^*_{H,rel}$ = 65

$g^*_{C,rel}$ = 60



Output: Colorimetric Television Luminous System TLS00

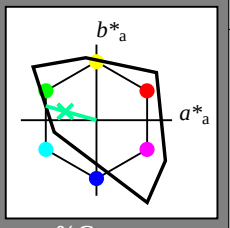
for hue *h = *lab*h* = 164/360 = 0.457**

LAB*LCH, LAB*NCH

D65: hue G

LCH*Ma: 84 70 164

olv*Ma: 0.0 1.0 0.6



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	54.19	79.36	63.0	101.33	38
Y_m	93.44	−14.18	82.59	83.8	100
L_m	82.82	−83.73	70.41	109.41	140
C_m	85.22	−55.9	−15.78	58.1	196
V_m	25.61	67.05	−108.87	127.87	302
M_m	58.76	91.18	−53.69	105.82	330
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	41.88	62.0	31.82	69.69	27
J_m	81.97	1.81	71.59	71.61	89
G_m	51.62	−41.11	11.52	42.7	164
B_m	29.2	−5.27	−49.33	49.62	264

CIELAB lightness *L**

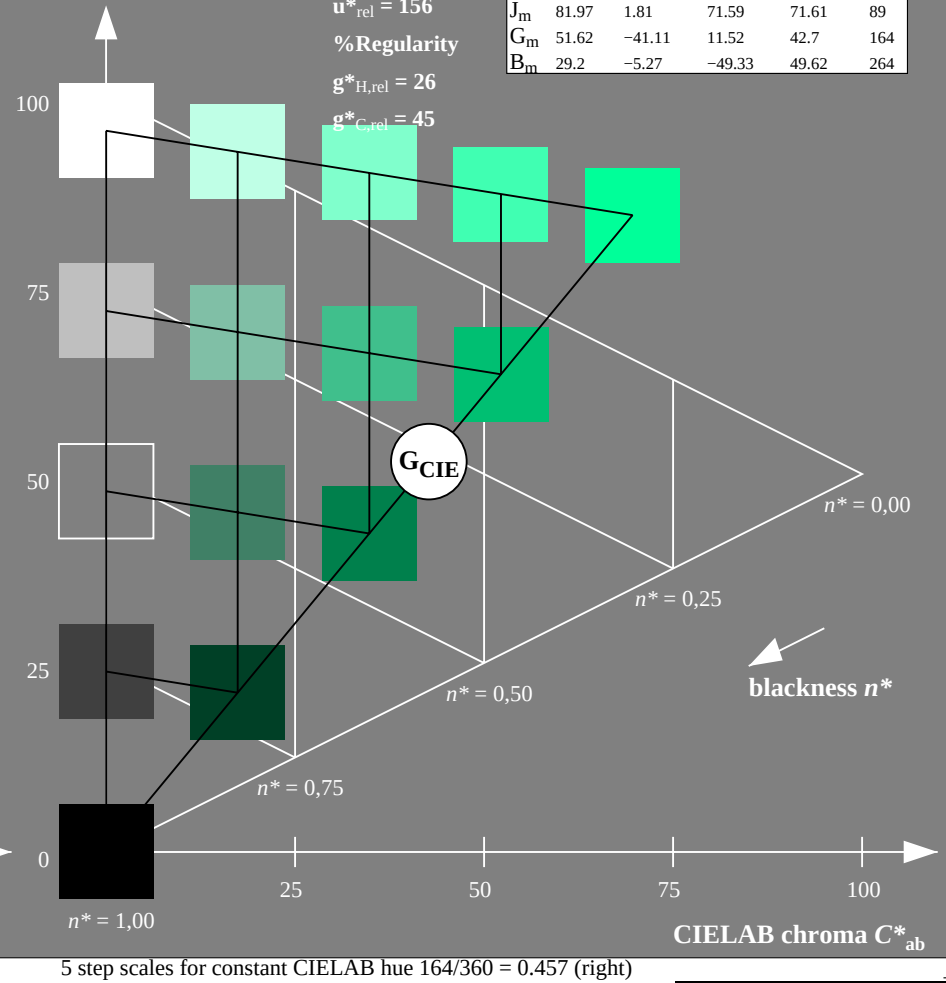
%Gamut

u^*_{rel} = 156

%Regularity

$g^*_{H,rel}$ = 26

$g^*_{C,rel}$ = 45



PE200−7, 5 step scales for constant CIELAB hue 167/360 = 0.463 (left)

5 step scales for constant CIELAB hue 164/360 = 0.457 (right)

BAM-test chart PE20; Colorimetric systems ORS18 & TLS00
D50: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*

Input: Colorimetric Offset Reflective System ORS18

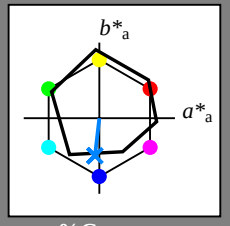
for hue *h = *lab*h* = 263/360 = 0.731**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 47 263

olv*Ma: 0.0 0.52 1.0



ORS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	47.94	65.05	50.54	82.38	38
Y_m	91.0	−4.72	90.58	90.7	93
L_m	50.9	−63.18	34.98	72.22	151
C_m	56.99	−39.34	−48.1	62.16	231
V_m	25.72	30.89	−44.4	54.09	305
M_m	49.99	75.76	−4.64	75.9	356
N_m	18.09	0.0	0.0	0.0	0
W_m	95.46	0.0	0.0	0.0	0
R_m	41.88	61.66	30.69	68.88	26
J_m	81.97	2.02	67.79	67.82	88
G_m	51.62	−41.32	9.74	42.46	167
B_m	29.2	−5.79	−49.61	49.96	263

triangle lightness *t**

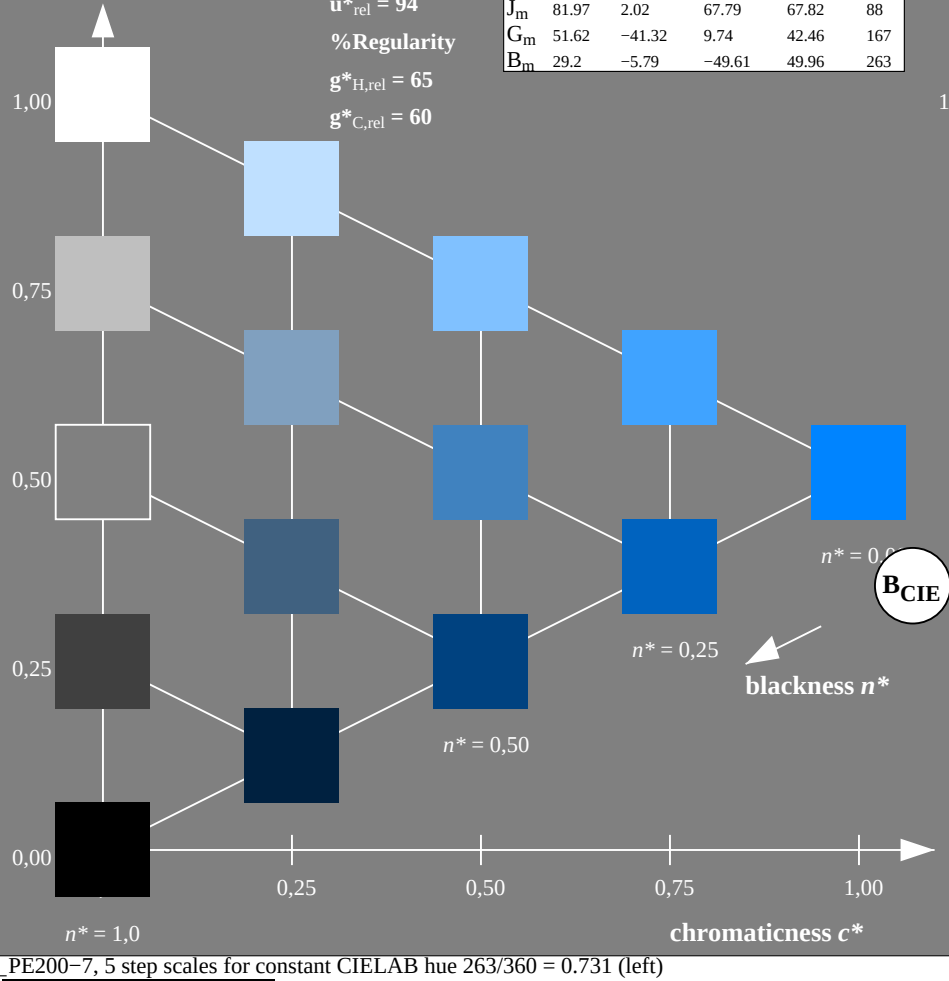
%Gamut

u*rel = 94

%Regularity

g*H,rel = 65

g*C,rel = 60



Output: Colorimetric Television Luminous System TLS00

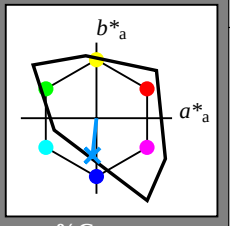
for hue *h = *lab*h* = 264/360 = 0.733**

LAB*LCH, LAB*NCH

D65: hue B

LCH*Ma: 61 54 264

olv*Ma: 0.0 0.59 1.0



TLS00; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	54.19	79.36	63.0	101.33	38
Y_m	93.44	−14.18	82.59	83.8	100
L_m	82.82	−83.73	70.41	109.41	140
C_m	85.22	−55.9	−15.78	58.1	196
V_m	25.61	67.05	−108.87	127.87	302
M_m	58.76	91.18	−53.69	105.82	330
N_m	0.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	41.88	62.0	31.82	69.69	27
J_m	81.97	1.81	71.59	71.61	89
G_m	51.62	−41.11	11.52	42.7	164
B_m	29.2	−5.27	−49.33	49.62	264

CIELAB lightness *L**

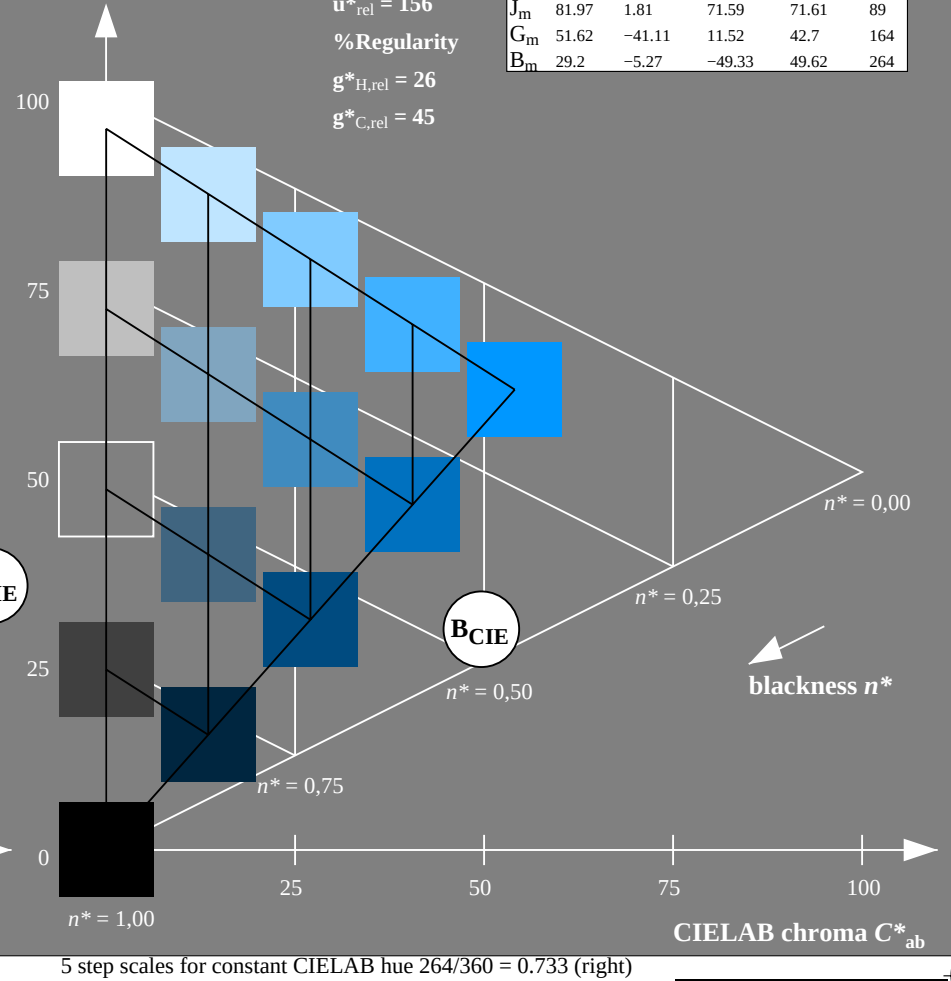
%Gamut

u*rel = 156

%Regularity

g*H,rel = 26

g*C,rel = 45



PE200−7, 5 step scales for constant CIELAB hue 263/360 = 0.731 (left)

5 step scales for constant CIELAB hue 264/360 = 0.733 (right)

BAM-test chart PE20; Colorimetric systems ORS18 & TLS00
D50: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *no change compared to input*