Input: Colorimetric Offset Reflective System ORS18

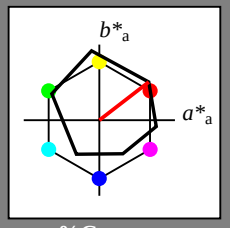
for hue *h = *lab*h* = 38/360 = 0.105**

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 48 83 38

olv*Ma: 1.0 0.0 0.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	47.94	65.39	50.52	82.63	38
Y_m	90.37	−10.26	91.75	92.32	96
L_m	50.9	−62.83	34.96	71.91	151
C_m	58.62	−30.34	−45.01	54.3	236
V_m	25.72	31.1	−44.4	54.22	305
M_m	48.13	75.28	−8.36	75.74	354
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

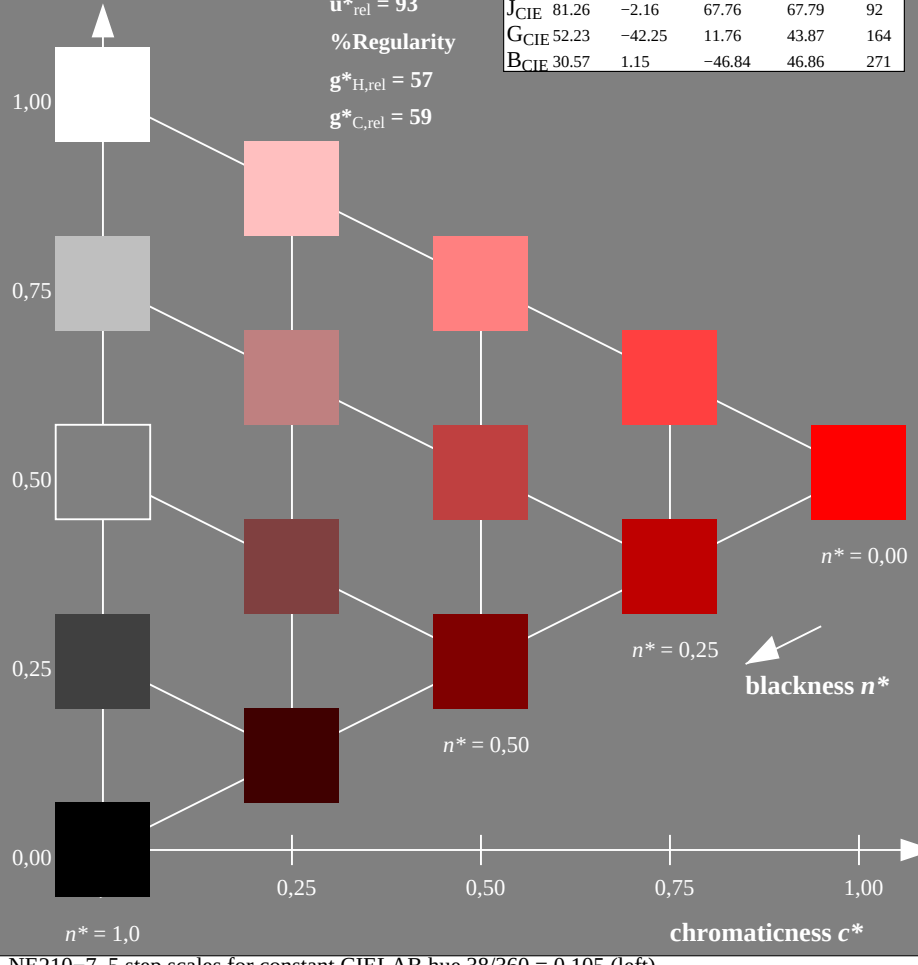
%Gamut

u^*_{rel} = 93

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59



Output: Colorimetric Television Luminous System TLS18

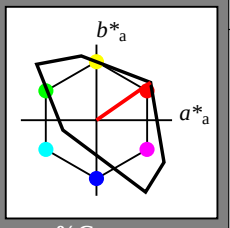
for hue *h = *lab*h* = 35/360 = 0.097**

LAB*LCH, LAB*NCH

D65: hue O

LCH*Ma: 53 87 35

olv*Ma: 1.0 0.0 0.0



TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	52.76	71.63	49.88	87.29	35
Y_m	92.74	−20.02	84.97	87.3	103
L_m	84.0	−78.98	73.94	108.2	137
C_m	87.14	−44.41	−13.11	46.32	196
V_m	35.47	64.92	−95.06	115.12	304
M_m	59.01	89.33	−55.67	105.26	328
N_m	18.01	0.0	0.0	0.0	0
W_m	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

CIELAB lightness *L**

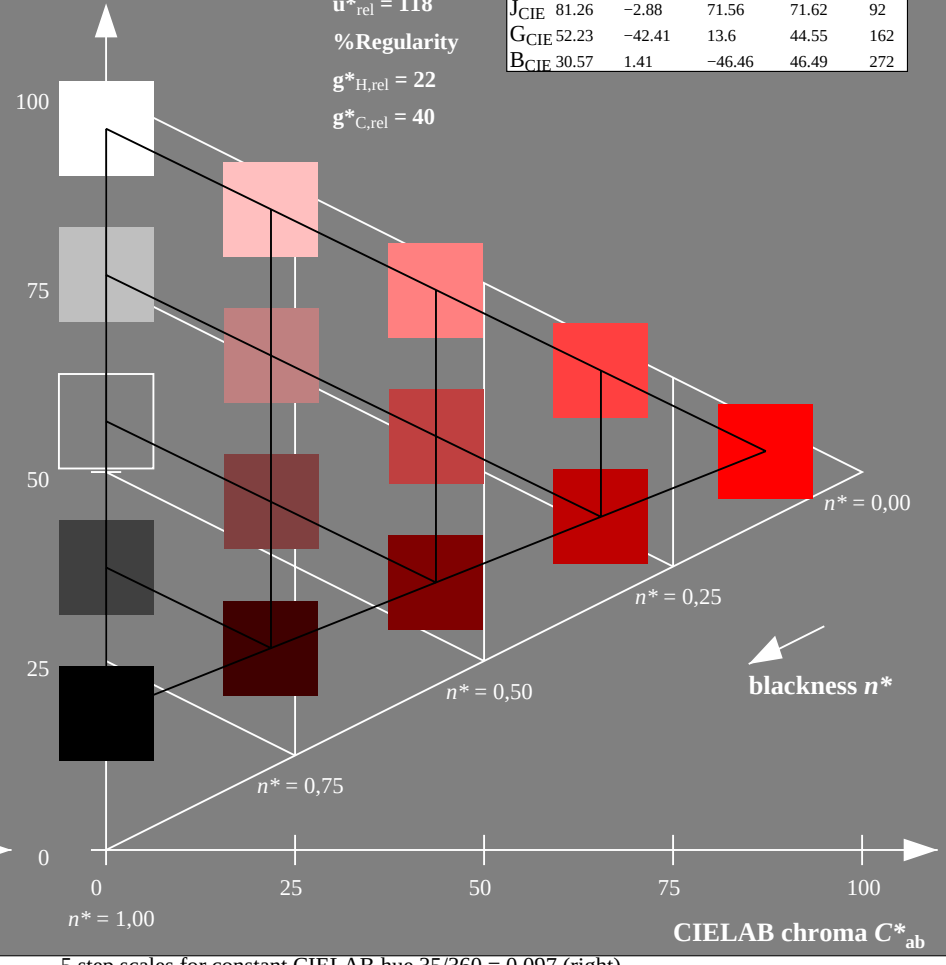
%Gamut

u^*_{rel} = 118

%Regularity

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40



NE210−7, 5 step scales for constant CIELAB hue 38/360 = 0.105 (left)

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

BAM-test chart NE21; Colorimetric systems ORS18 & TLS18
D65: 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

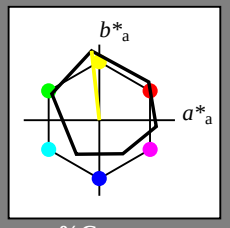
for hue *h = *lab*h* = 96/360 = 0.268**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 90 92 96

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	65.39	50.52	82.63	38
Y_m	90.37	−10.26	91.75	92.32	96
L_m	50.9	−62.83	34.96	71.91	151
C_m	58.62	−30.34	−45.01	54.3	236
V_m	25.72	31.1	−44.4	54.22	305
M_m	48.13	75.28	−8.36	75.74	354
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

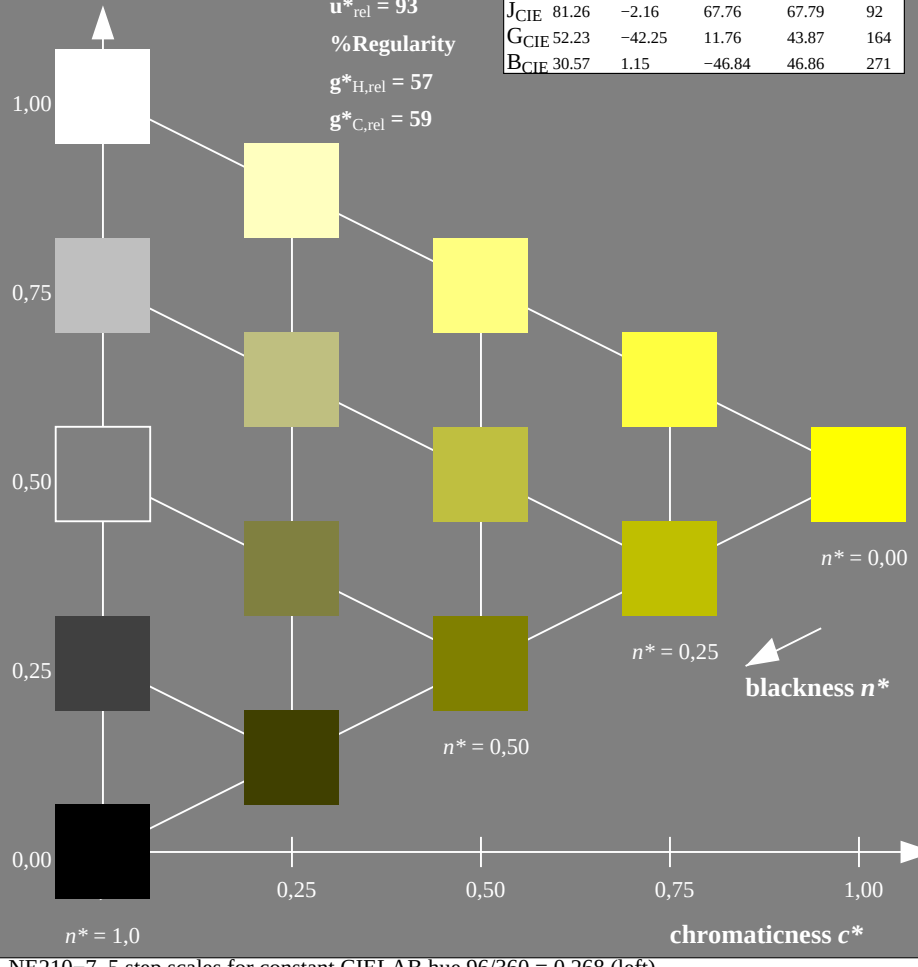
%Gamut

u^*_{rel} = 93

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59



Output: Colorimetric Television Luminous System TLS18

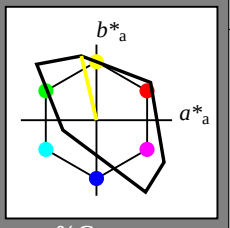
for hue *h = *lab*h* = 103/360 = 0.287**

LAB*LCH, LAB*NCH

D65: hue Y

LCH*Ma: 93 87 103

olv*Ma: 1.0 1.0 0.0



TLS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	52.76	71.63	49.88	87.29	35
Y_m	92.74	−20.02	84.97	87.3	103
L_m	84.0	−78.98	73.94	108.2	137
C_m	87.14	−44.41	−13.11	46.32	196
V_m	35.47	64.92	−95.06	115.12	304
M_m	59.01	89.33	−55.67	105.26	328
N_m	18.01	0.0	0.0	0.0	0
W_m	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

CIELAB lightness *L**

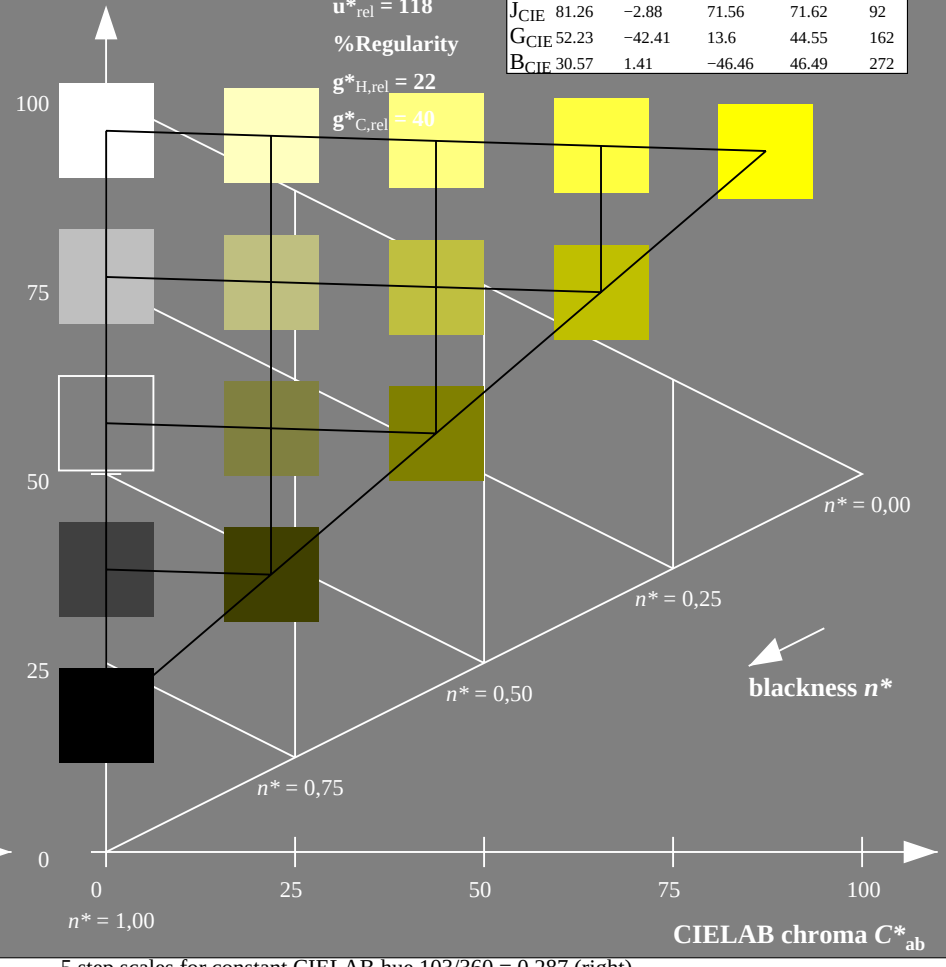
%Gamut

u^*_{rel} = 118

%Regularity

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40



NE210−7, 5 step scales for constant CIELAB hue 96/360 = 0.268 (left)

5 step scales for constant CIELAB hue 103/360 = 0.287 (right)

BAM-test chart NE21; Colorimetric systems ORS18 & TLS18
D65: 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

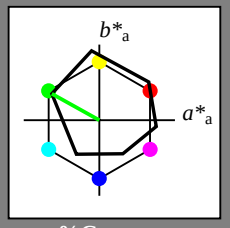
for hue *h = *lab*h* = 151/360 = 0.419**

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	65.39	50.52	82.63	38
Y_m	90.37	−10.26	91.75	92.32	96
L_m	50.9	−62.83	34.96	71.91	151
C_m	58.62	−30.34	−45.01	54.3	236
V_m	25.72	31.1	−44.4	54.22	305
M_m	48.13	75.28	−8.36	75.74	354
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

%Gamut

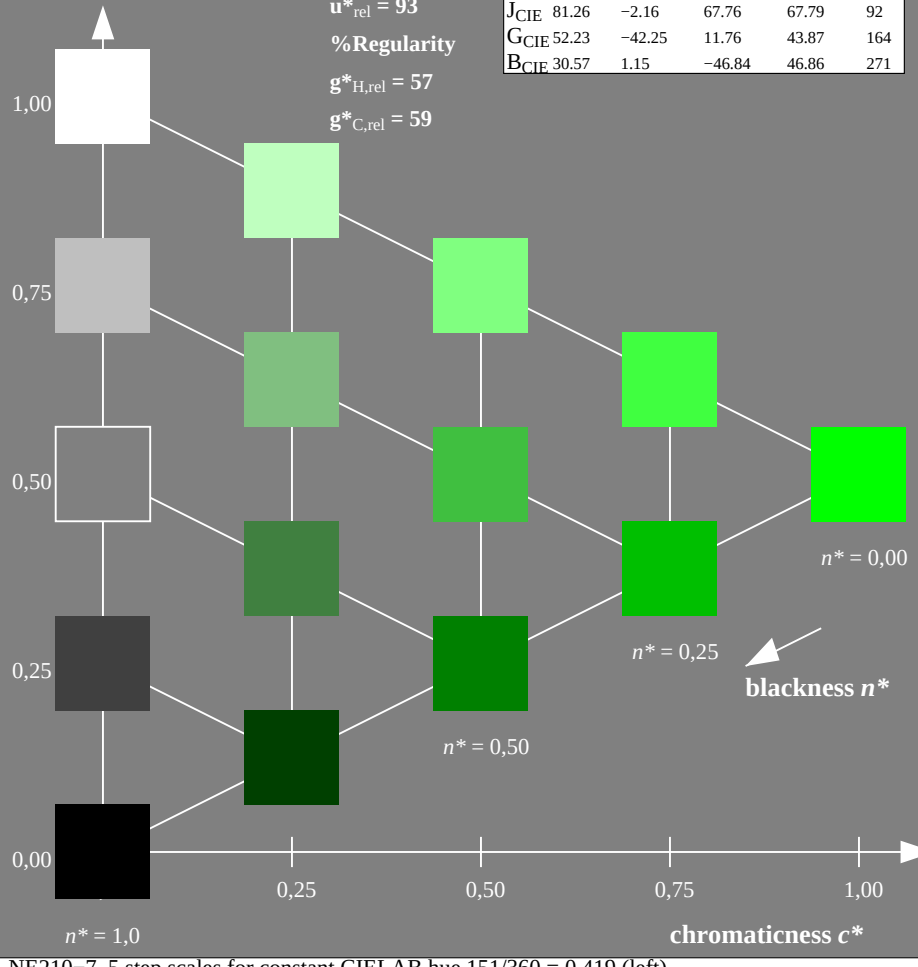
u^*_{rel} = 93

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59

triangle lightness *t**



Output: Colorimetric Television Luminous System TLS18

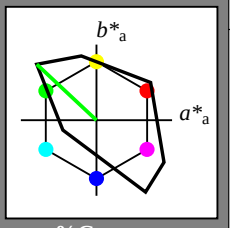
for hue *h = *lab*h* = 137/360 = 0.38**

LAB*LCH, LAB*NCH

D65: hue L

LCH*Ma: 84 108 137

olv*Ma: 0.0 1.0 0.0



TLS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	52.76	71.63	49.88	87.29	35
Y_m	92.74	−20.02	84.97	87.3	103
L_m	84.0	−78.98	73.94	108.2	137
C_m	87.14	−44.41	−13.11	46.32	196
V_m	35.47	64.92	−95.06	115.12	304
M_m	59.01	89.33	−55.67	105.26	328
N_m	18.01	0.0	0.0	0.0	0
W_m	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

%Gamut

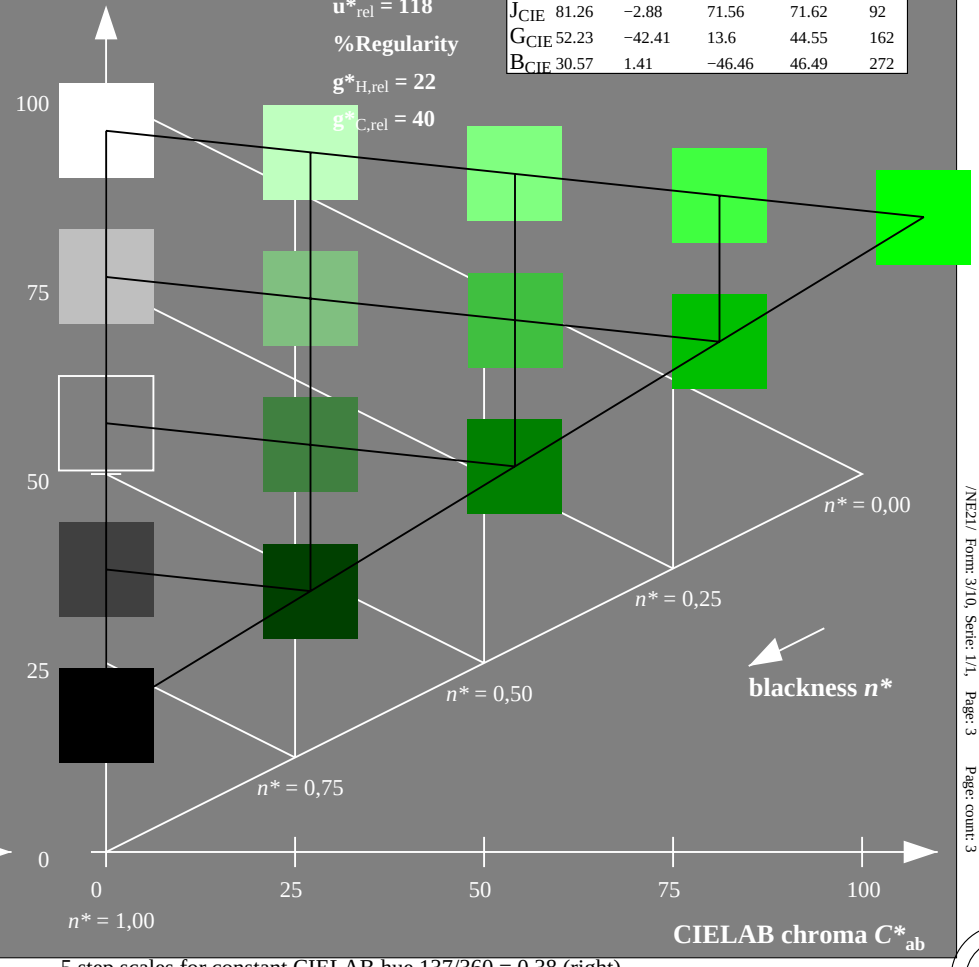
u^*_{rel} = 118

%Regularity

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40

CIELAB lightness *L**



NE210−7, 5 step scales for constant CIELAB hue 151/360 = 0.419 (left)

5 step scales for constant CIELAB hue 137/360 = 0.38 (right)

BAM-test chart NE21; Colorimetric systems ORS18 & TLS18
D65: 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

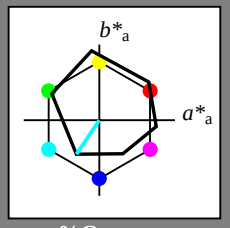
for hue *h = *lab*h* = 236/360 = 0.656**

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 59 54 236

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	65.39	50.52	82.63	38
Y_m	90.37	−10.26	91.75	92.32	96
L_m	50.9	−62.83	34.96	71.91	151
C_m	58.62	−30.34	−45.01	54.3	236
V_m	25.72	31.1	−44.4	54.22	305
M_m	48.13	75.28	−8.36	75.74	354
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

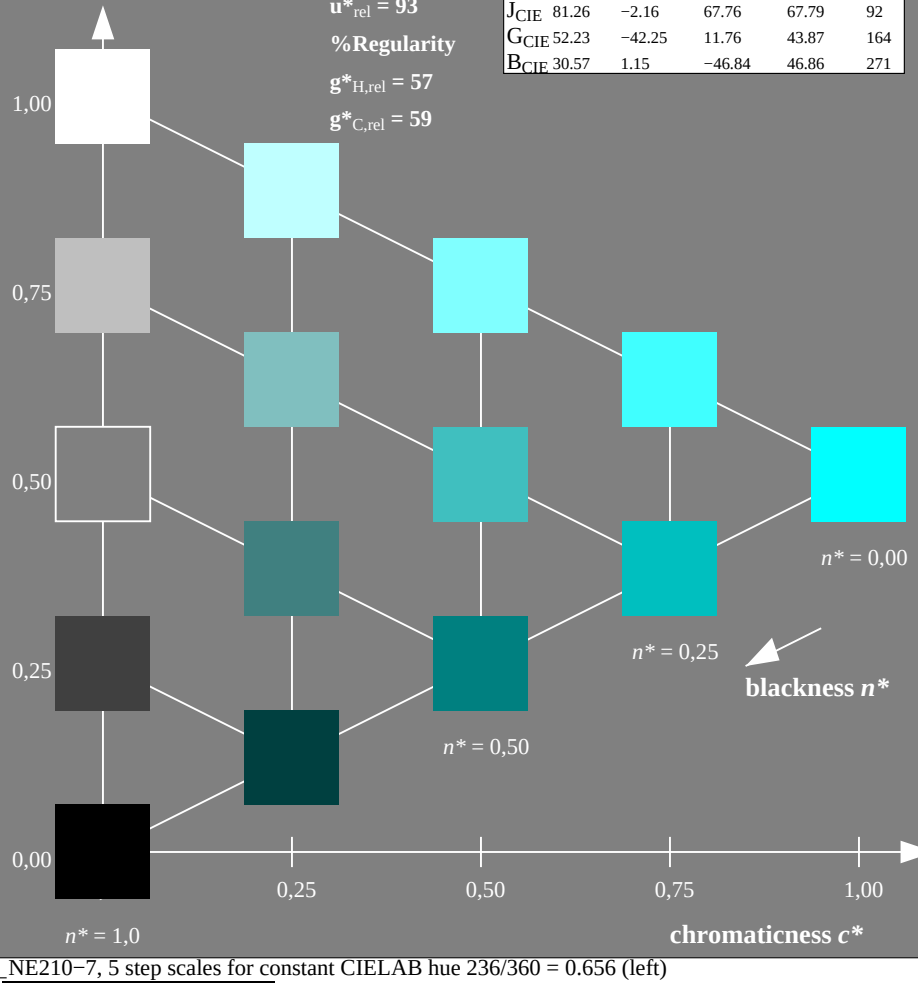
%Gamut

u^*_{rel} = 93

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59



Output: Colorimetric Television Luminous System TLS18

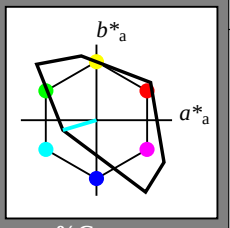
for hue *h = *lab*h* = 196/360 = 0.546**

LAB*LCH, LAB*NCH

D65: hue C

LCH*Ma: 87 46 196

olv*Ma: 0.0 1.0 1.0



TLS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	52.76	71.63	49.88	87.29	35
Y_m	92.74	−20.02	84.97	87.3	103
L_m	84.0	−78.98	73.94	108.2	137
C_m	87.14	−44.41	−13.11	46.32	196
V_m	35.47	64.92	−95.06	115.12	304
M_m	59.01	89.33	−55.67	105.26	328
N_m	18.01	0.0	0.0	0.0	0
W_m	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

CIELAB lightness *L**

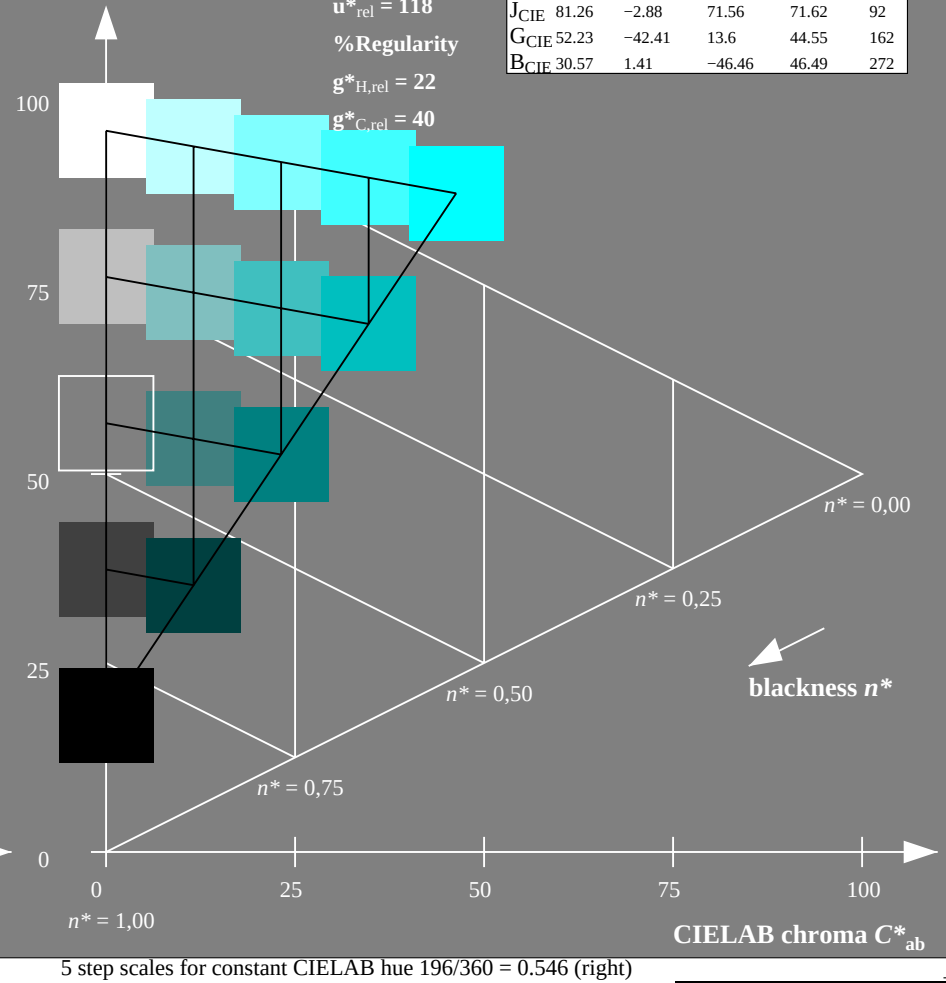
%Gamut

u^*_{rel} = 118

%Regularity

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40



NE210−7, 5 step scales for constant CIELAB hue 236/360 = 0.656 (left)

5 step scales for constant CIELAB hue 196/360 = 0.546 (right)

BAM-test chart NE21; Colorimetric systems ORS18 & TLS18
D65: 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

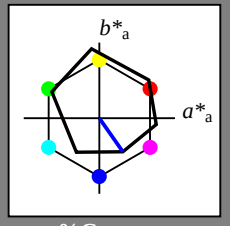
for hue *h = *lab*h* = 305/360 = 0.847**

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	65.39	50.52	82.63	38
Y_m	90.37	−10.26	91.75	92.32	96
L_m	50.9	−62.83	34.96	71.91	151
C_m	58.62	−30.34	−45.01	54.3	236
V_m	25.72	31.1	−44.4	54.22	305
M_m	48.13	75.28	−8.36	75.74	354
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

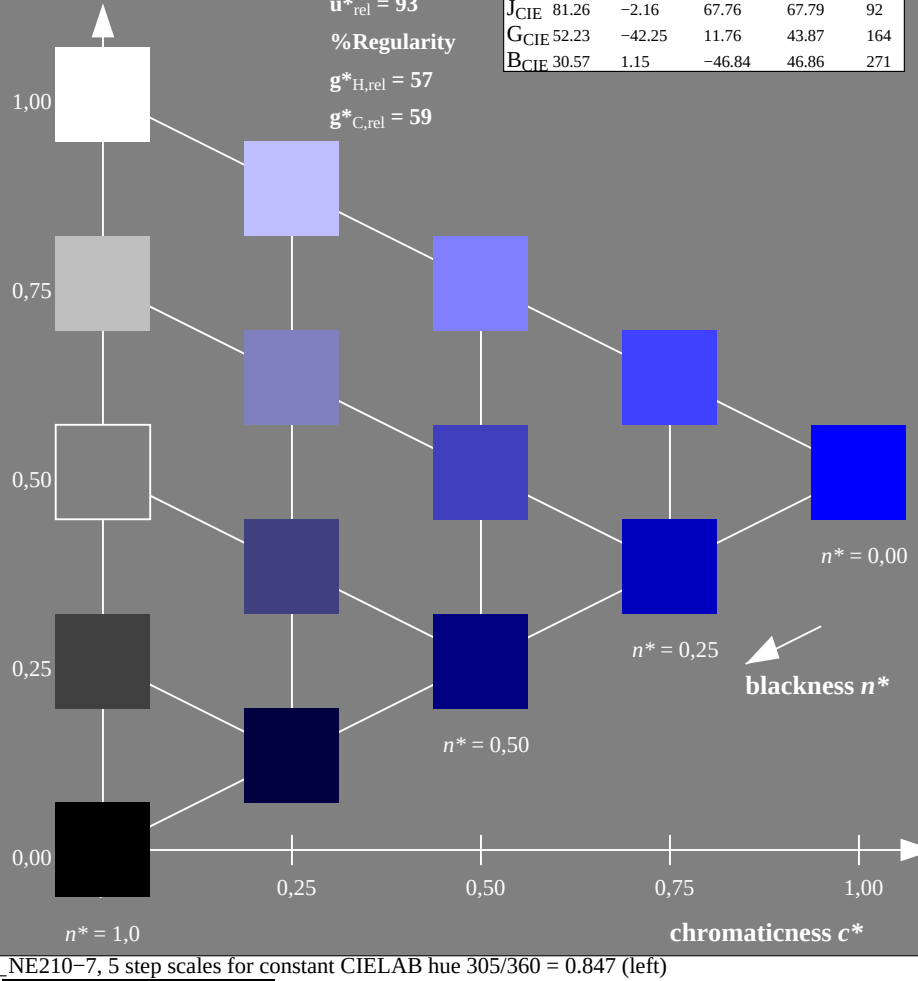
%Gamut

u^*_{rel} = 93

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59



Output: Colorimetric Television Luminous System TLS18

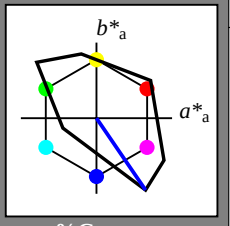
for hue *h = *lab*h* = 304/360 = 0.845**

LAB*LCH, LAB*NCH

D65: hue V

LCH*Ma: 35 115 304

olv*Ma: 0.0 0.0 1.0



TLS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	52.76	71.63	49.88	87.29	35
Y_m	92.74	−20.02	84.97	87.3	103
L_m	84.0	−78.98	73.94	108.2	137
C_m	87.14	−44.41	−13.11	46.32	196
V_m	35.47	64.92	−95.06	115.12	304
M_m	59.01	89.33	−55.67	105.26	328
N_m	18.01	0.0	0.0	0.0	0
W_m	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

CIELAB lightness *L**

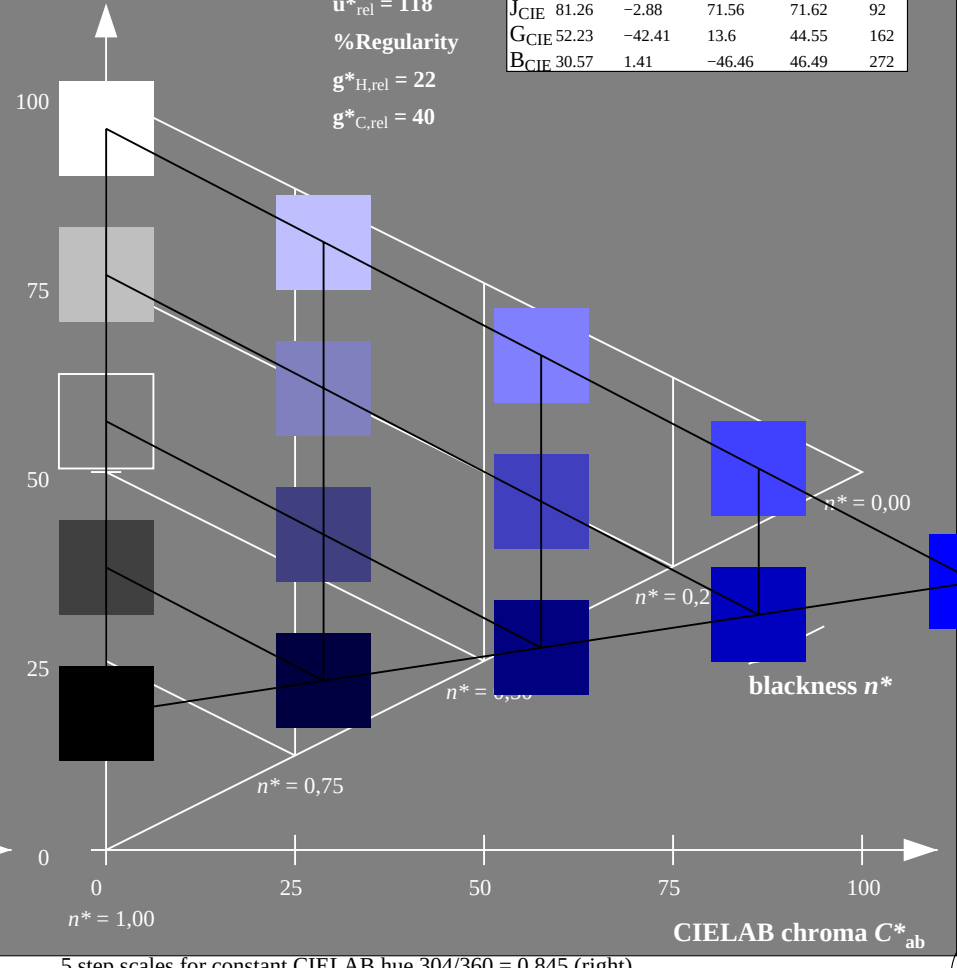
%Gamut

u^*_{rel} = 118

%Regularity

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40



NE210−7, 5 step scales for constant CIELAB hue 305/360 = 0.847 (left)

5 step scales for constant CIELAB hue 304/360 = 0.845 (right)

BAM-test chart NE21; Colorimetric systems ORS18 & TLS18
D65: 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

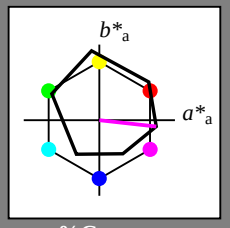
for hue *h = *lab*h* = 354/360 = 0.982**

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 48 76 354

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	65.39	50.52	82.63	38
Y_m	90.37	−10.26	91.75	92.32	96
L_m	50.9	−62.83	34.96	71.91	151
C_m	58.62	−30.34	−45.01	54.3	236
V_m	25.72	31.1	−44.4	54.22	305
M_m	48.13	75.28	−8.36	75.74	354
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.66	26.98	64.57	25
J_{CIE}	81.26	−2.16	67.76	67.79	92
G_{CIE}	52.23	−42.25	11.76	43.87	164
B_{CIE}	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

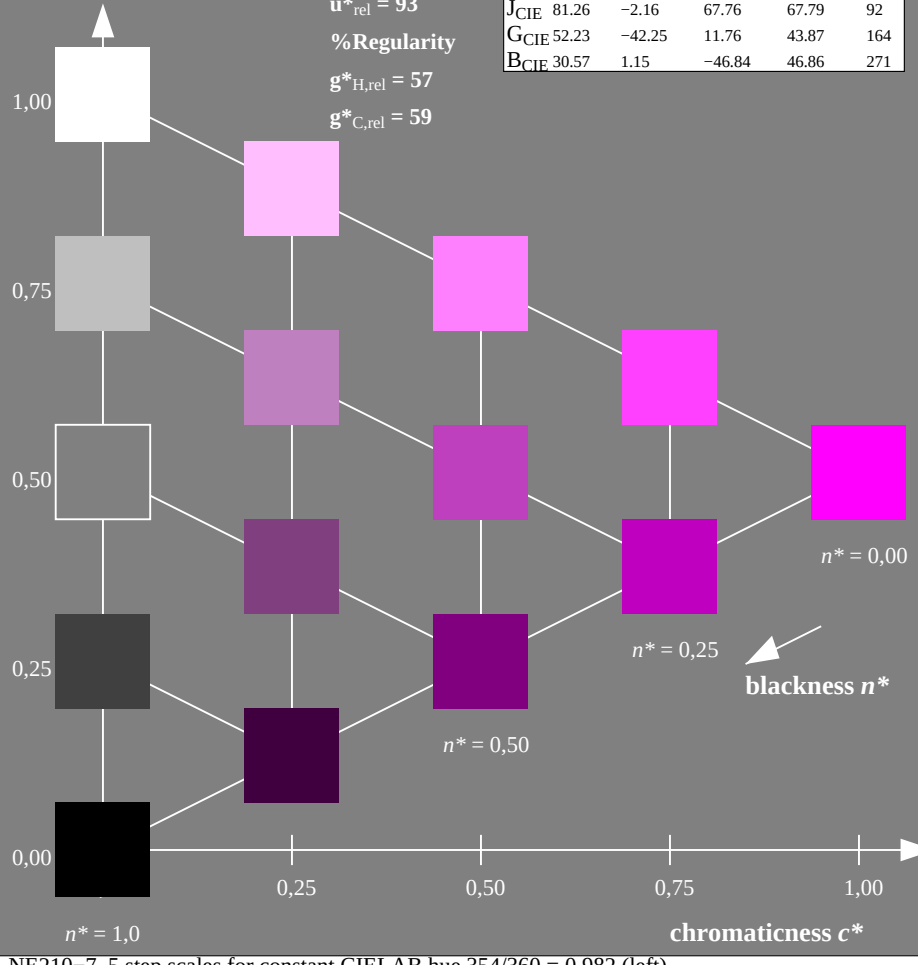
%Gamut

u^*_{rel} = 93

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59



Output: Colorimetric Television Luminous System TLS18

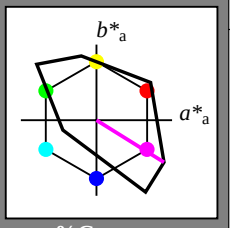
for hue *h = *lab*h* = 328/360 = 0.911**

LAB*LCH, LAB*NCH

D65: hue M

LCH*Ma: 59 105 328

olv*Ma: 1.0 0.0 1.0



TLS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	52.76	71.63	49.88	87.29	35
Y_m	92.74	−20.02	84.97	87.3	103
L_m	84.0	−78.98	73.94	108.2	137
C_m	87.14	−44.41	−13.11	46.32	196
V_m	35.47	64.92	−95.06	115.12	304
M_m	59.01	89.33	−55.67	105.26	328
N_m	18.01	0.0	0.0	0.0	0
W_m	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

CIELAB lightness *L**

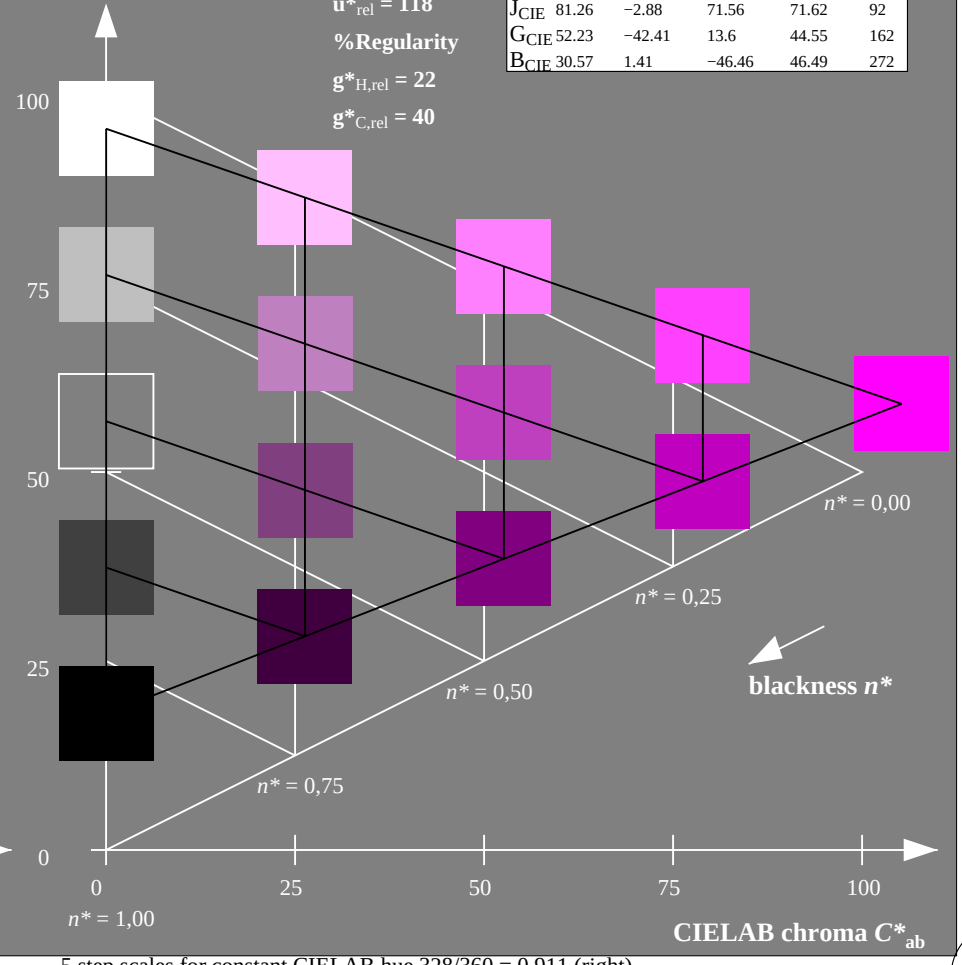
%Gamut

u^*_{rel} = 118

%Regularity

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40



NE210−7, 5 step scales for constant CIELAB hue 354/360 = 0.982 (left)

5 step scales for constant CIELAB hue 328/360 = 0.911 (right)

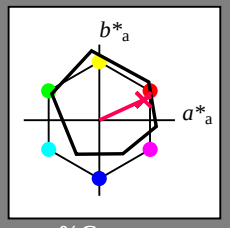
BAM-test chart NE21; Colorimetric systems ORS18 & TLS18
D65: Coordinate systems of 5 step colour scales for 10 hues

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

Input: Colorimetric Offset Reflective System ORS18

for hue *h = *lab*h* = 25/360 = 0.069**
lab*tch* and *lab*nch

D65: hue R
LCH*Ma: 48 75 25
olv*Ma: 1.0 0.0 0.32

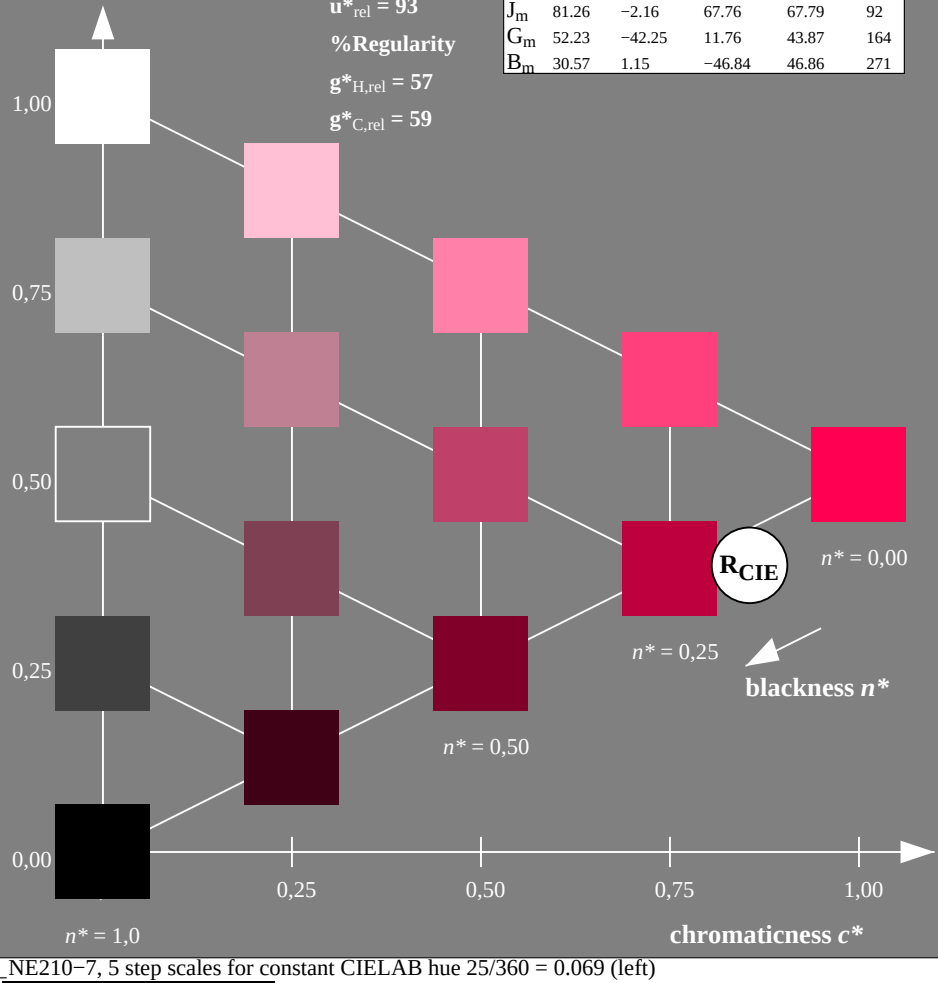


ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	47.94	65.39	50.52	82.63	38
Y_m	90.37	−10.26	91.75	92.32	96
L_m	50.9	−62.83	34.96	71.91	151
C_m	58.62	−30.34	−45.01	54.3	236
V_m	25.72	31.1	−44.4	54.22	305
M_m	48.13	75.28	−8.36	75.74	354
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.66	26.98	64.57	25
J_m	81.26	−2.16	67.76	67.79	92
G_m	52.23	−42.25	11.76	43.87	164
B_m	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

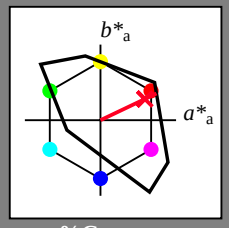
%Gamut
u^*_{rel} = 93
%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



Output: Colorimetric Television Luminous System TLS18

for hue *h = *lab*h* = 25/360 = 0.071**
LAB*LCH, LAB*NCH

D65: hue R
LCH*Ma: 54 82 25
olv*Ma: 1.0 0.0 0.14

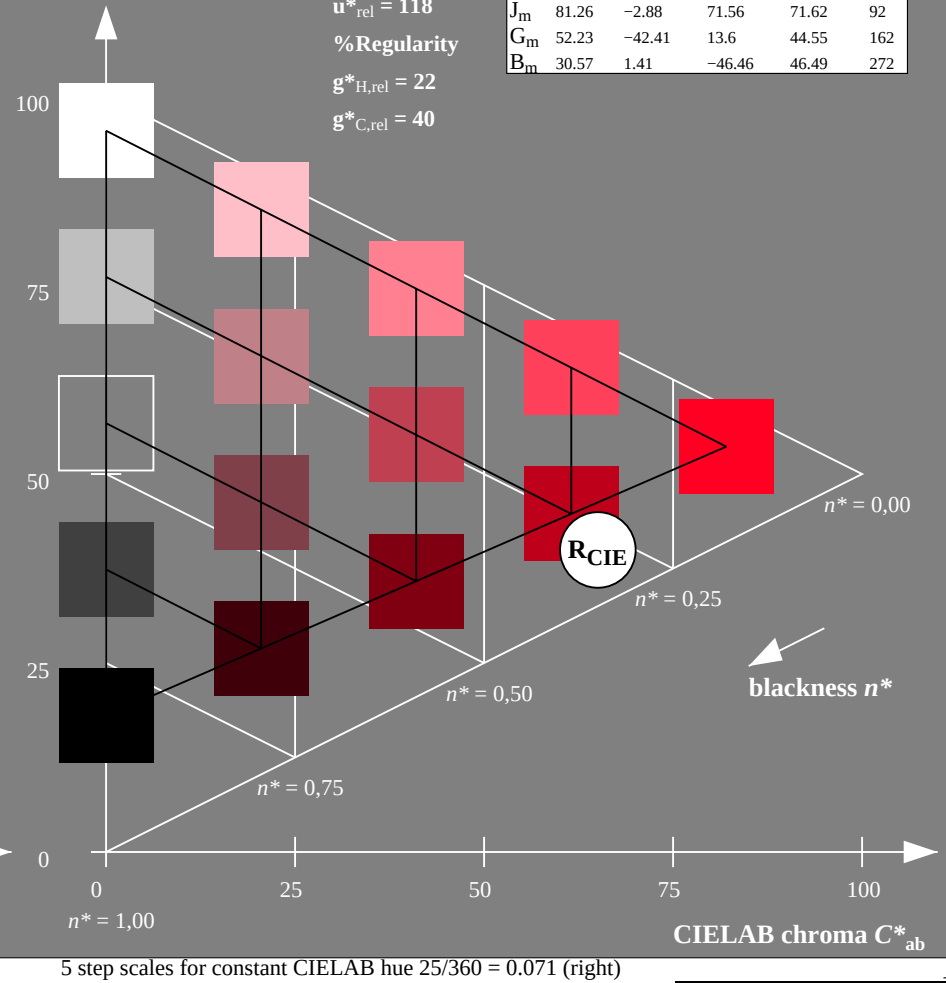


TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	52.76	71.63	49.88	87.29	35
Y_m	92.74	−20.02	84.97	87.3	103
L_m	84.0	−78.98	73.94	108.2	137
C_m	87.14	−44.41	−13.11	46.32	196
V_m	35.47	64.92	−95.06	115.12	304
M_m	59.01	89.33	−55.67	105.26	328
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.74	27.99	65.07	25
J_m	81.26	−2.88	71.56	71.62	92
G_m	52.23	−42.41	13.6	44.55	162
B_m	30.57	1.41	−46.46	46.49	272

CIELAB lightness *L**

%Gamut
u^*_{rel} = 118
%Regularity
$g^*_{H,rel}$ = 22
$g^*_{C,rel}$ = 40



NE210−7, 5 step scales for constant CIELAB hue 25/360 = 0.069 (left)

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

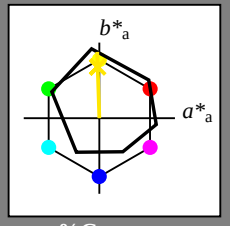
BAM-test chart NE21; Colorimetric systems ORS18 & TLS18
D65: Coordinate systems of 5 step colour scales for 10 hues

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

Input: Colorimetric Offset Reflective System ORS18

for hue *h = *lab*h* = 92/360 = 0.255**
lab*tch* and *lab*nch

D65: hue J
LCH*Ma: 86 88 92
olv*Ma: 1.0 0.9 0.0

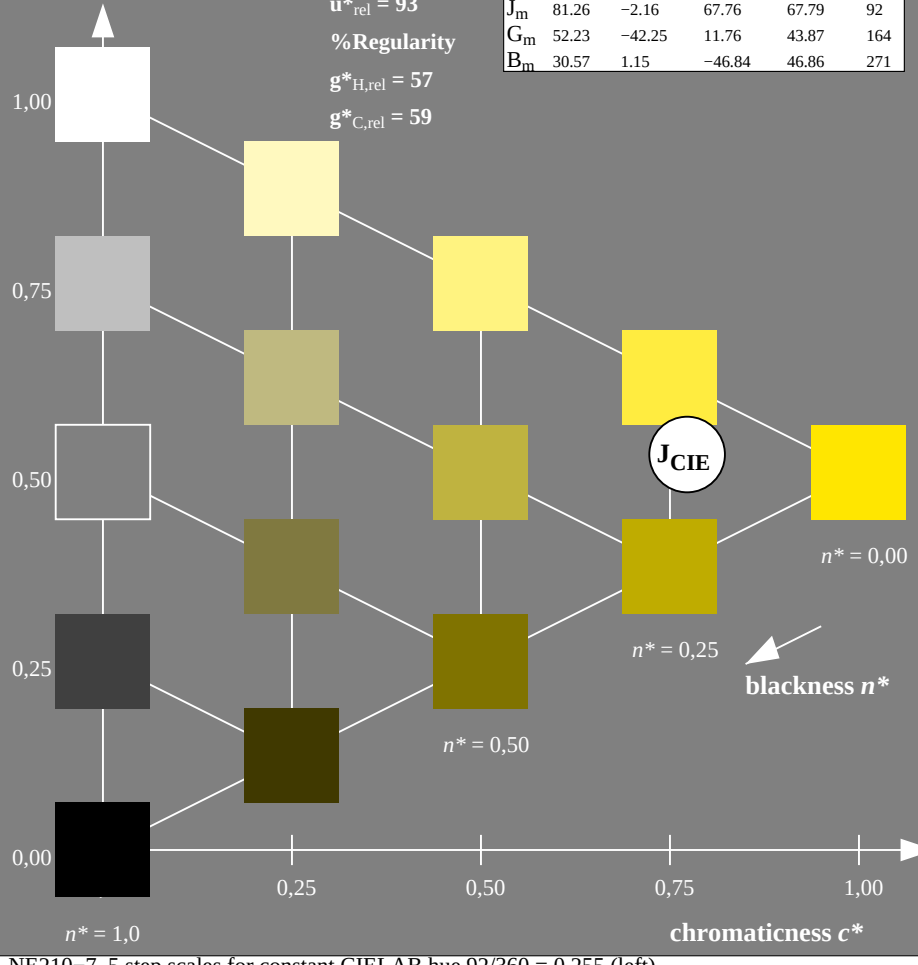


ORS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	47.94	65.39	50.52	82.63	38
Y_m	90.37	−10.26	91.75	92.32	96
L_m	50.9	−62.83	34.96	71.91	151
C_m	58.62	−30.34	−45.01	54.3	236
V_m	25.72	31.1	−44.4	54.22	305
M_m	48.13	75.28	−8.36	75.74	354
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.66	26.98	64.57	25
J_m	81.26	−2.16	67.76	67.79	92
G_m	52.23	−42.25	11.76	43.87	164
B_m	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

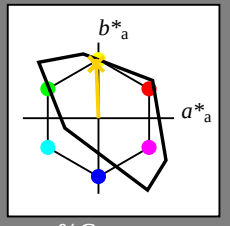
%Gamut
u^*_{rel} = 93
%Regularity
$g^*_{H,rel}$ = 57
$g^*_{C,rel}$ = 59



Output: Colorimetric Television Luminous System TLS18

for hue *h = *lab*h* = 92/360 = 0.256**
LAB*LCH, LAB*NCH

D65: hue J
LCH*Ma: 85 79 92
olv*Ma: 1.0 0.82 0.0

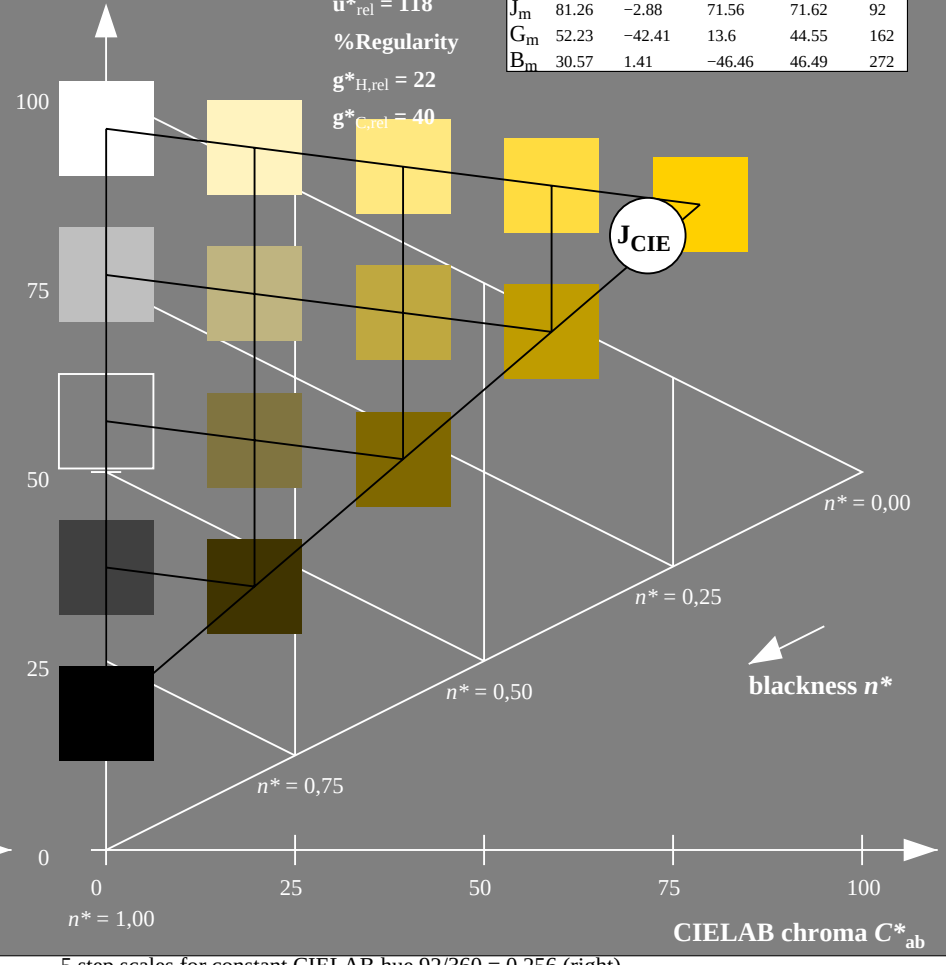


TLS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	52.76	71.63	49.88	87.29	35
Y_m	92.74	−20.02	84.97	87.3	103
L_m	84.0	−78.98	73.94	108.2	137
C_m	87.14	−44.41	−13.11	46.32	196
V_m	35.47	64.92	−95.06	115.12	304
M_m	59.01	89.33	−55.67	105.26	328
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.74	27.99	65.07	25
J_m	81.26	−2.88	71.56	71.62	92
G_m	52.23	−42.41	13.6	44.55	162
B_m	30.57	1.41	−46.46	46.49	272

CIELAB lightness *L**

%Gamut
u^*_{rel} = 118
%Regularity
$g^*_{H,rel}$ = 22
$g^*_{C,rel}$ = 40



NE210−7, 5 step scales for constant CIELAB hue 92/360 = 0.255 (left)

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

BAM-test chart NE21; Colorimetric systems ORS18 & TLS18
D65: 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

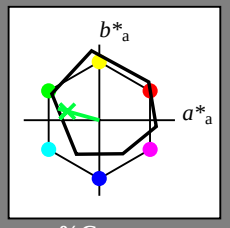
for hue *h = *lab*h* = 164/360 = 0.457**

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 53 57 164

olv*Ma: 0.0 1.0 0.25



ORS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	47.94	65.39	50.52	82.63	38
Y_m	90.37	−10.26	91.75	92.32	96
L_m	50.9	−62.83	34.96	71.91	151
C_m	58.62	−30.34	−45.01	54.3	236
V_m	25.72	31.1	−44.4	54.22	305
M_m	48.13	75.28	−8.36	75.74	354
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.66	26.98	64.57	25
J_m	81.26	−2.16	67.76	67.79	92
G_m	52.23	−42.25	11.76	43.87	164
B_m	30.57	1.15	−46.84	46.86	271

%Gamut

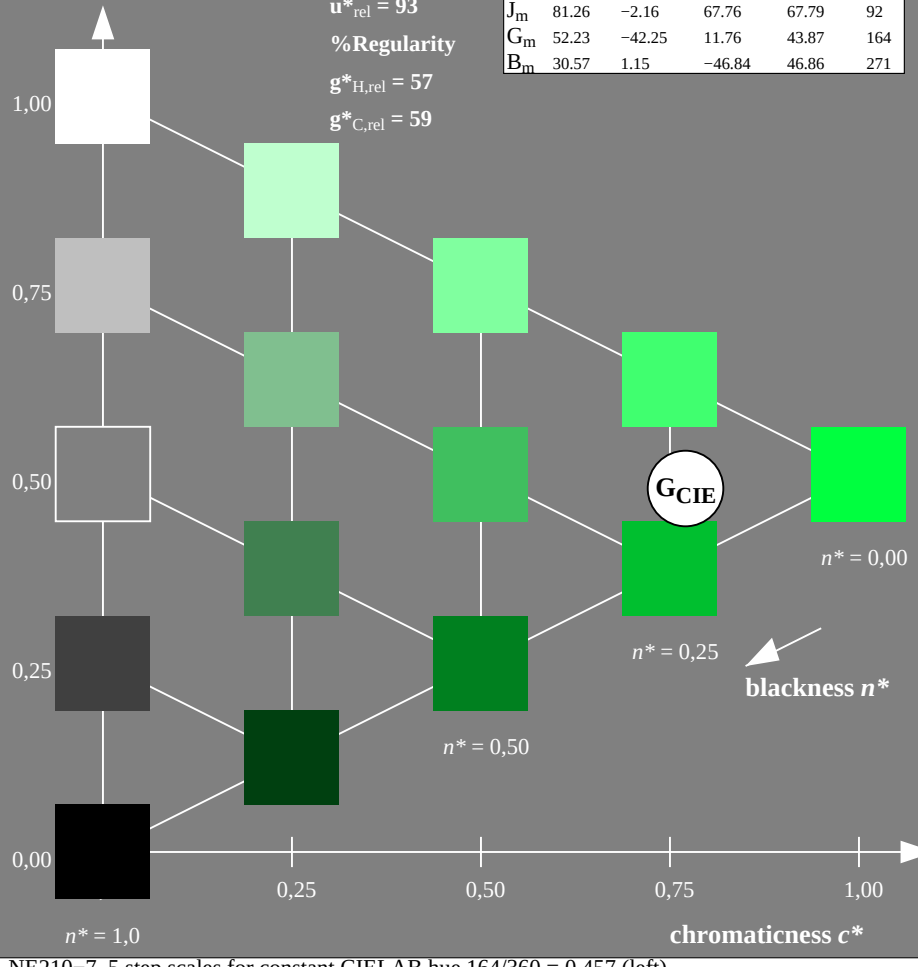
u^*_{rel} = 93

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59

triangle lightness *t**



Output: Colorimetric Television Luminous System TLS18

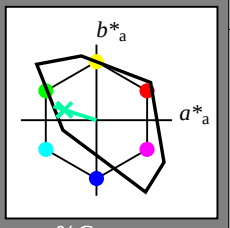
for hue *h = *lab*h* = 162/360 = 0.451**

LAB*LCH, LAB*NCH

D65: hue G

LCH*Ma: 86 60 162

olv*Ma: 0.0 1.0 0.64



TLS18; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	52.76	71.63	49.88	87.29	35
Y_m	92.74	−20.02	84.97	87.3	103
L_m	84.0	−78.98	73.94	108.2	137
C_m	87.14	−44.41	−13.11	46.32	196
V_m	35.47	64.92	−95.06	115.12	304
M_m	59.01	89.33	−55.67	105.26	328
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.74	27.99	65.07	25
J_m	81.26	−2.88	71.56	71.62	92
G_m	52.23	−42.41	13.6	44.55	162
B_m	30.57	1.41	−46.46	46.49	272

%Gamut

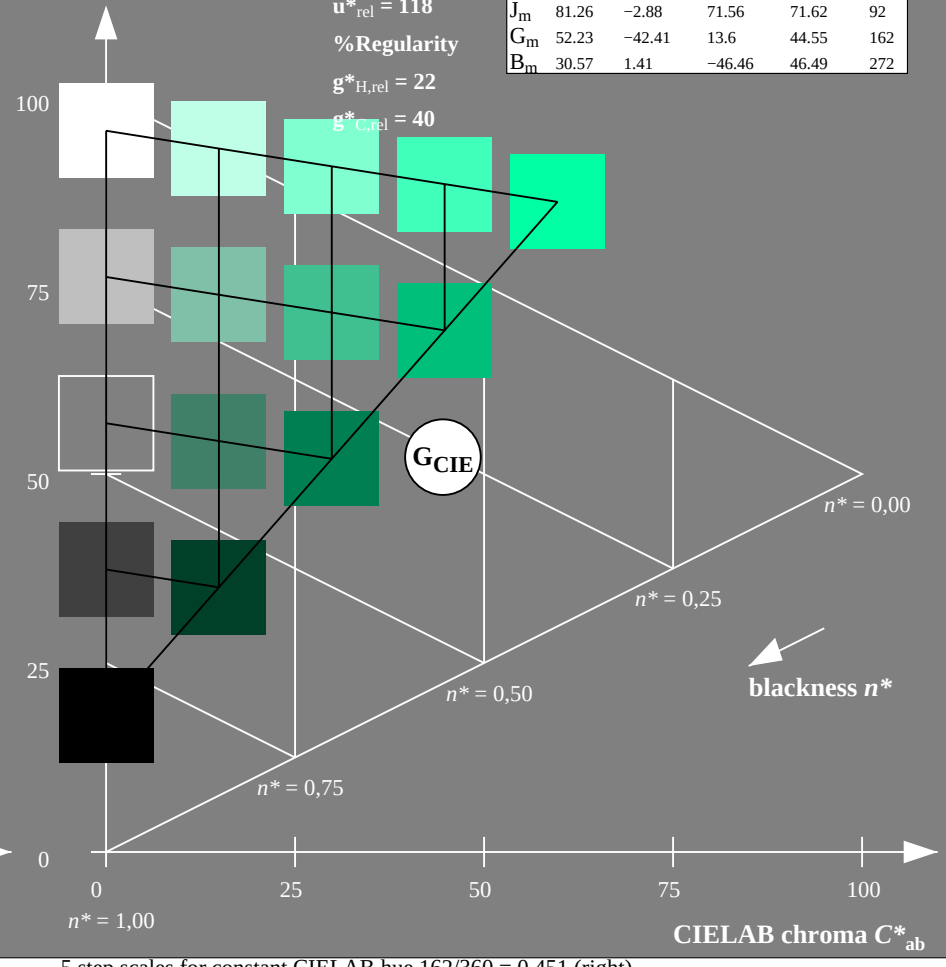
u^*_{rel} = 118

%Regularity

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40

CIELAB lightness *L**



NE210−7, 5 step scales for constant CIELAB hue 164/360 = 0.457 (left)

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

BAM-test chart NE21; Colorimetric systems ORS18 & TLS18
D65: 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

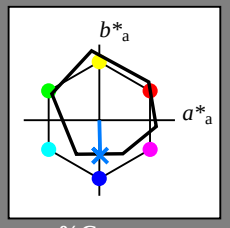
for hue *h = *lab*h* = 271/360 = 0.754**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 42 45 271

olv*Ma: 0.0 0.49 1.0



ORS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	47.94	65.39	50.52	82.63	38
Y_m	90.37	−10.26	91.75	92.32	96
L_m	50.9	−62.83	34.96	71.91	151
C_m	58.62	−30.34	−45.01	54.3	236
V_m	25.72	31.1	−44.4	54.22	305
M_m	48.13	75.28	−8.36	75.74	354
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.66	26.98	64.57	25
J_m	81.26	−2.16	67.76	67.79	92
G_m	52.23	−42.25	11.76	43.87	164
B_m	30.57	1.15	−46.84	46.86	271

triangle lightness *t**

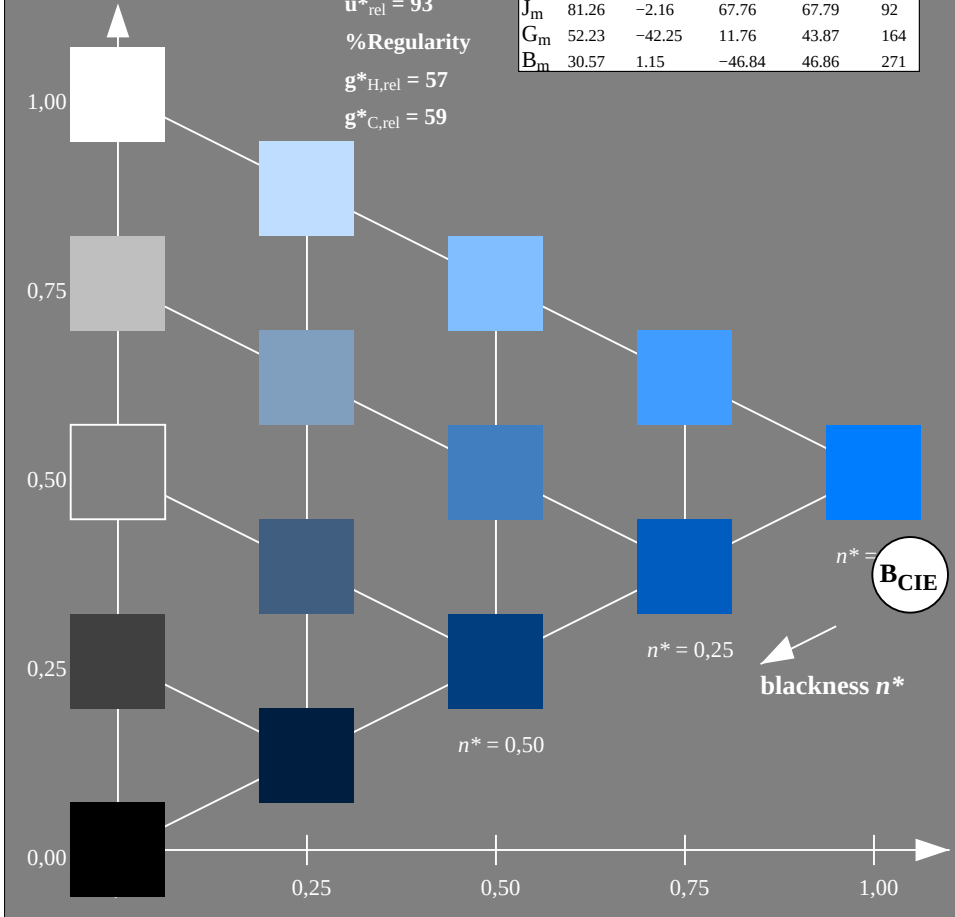
%Gamut

u^*_{rel} = 93

%Regularity

$g^*_{H,rel}$ = 57

$g^*_{C,rel}$ = 59



Output: Colorimetric Television Luminous System TLS18

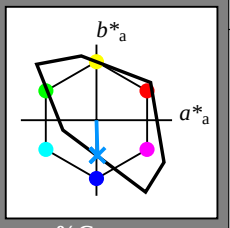
for hue *h = *lab*h* = 272/360 = 0.755**

LAB*LCH, LAB*NCH

D65: hue B

LCH*Ma: 65 48 272

olv*Ma: 0.0 0.58 1.0



TLS18; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	52.76	71.63	49.88	87.29	35
Y_m	92.74	−20.02	84.97	87.3	103
L_m	84.0	−78.98	73.94	108.2	137
C_m	87.14	−44.41	−13.11	46.32	196
V_m	35.47	64.92	−95.06	115.12	304
M_m	59.01	89.33	−55.67	105.26	328
N_m	18.01	0.0	0.0	0.0	0
W_m	95.41	0.0	0.0	0.0	0
R_m	39.92	58.74	27.99	65.07	25
J_m	81.26	−2.88	71.56	71.62	92
G_m	52.23	−42.41	13.6	44.55	162
B_m	30.57	1.41	−46.46	46.49	272

CIELAB lightness *L**

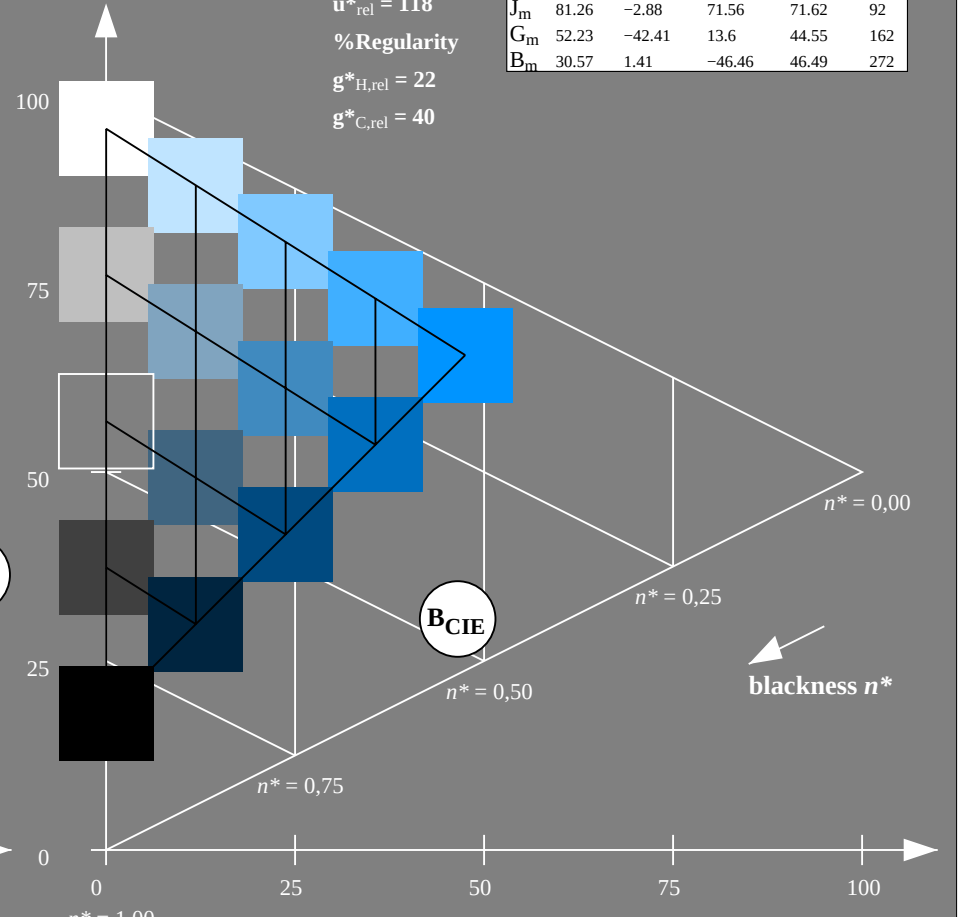
%Gamut

u^*_{rel} = 118

%Regularity

$g^*_{H,rel}$ = 22

$g^*_{C,rel}$ = 40



NE210−7, 5 step scales for constant CIELAB hue 271/360 = 0.754 (left)

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

BAM-test chart NE21; Colorimetric systems ORS18 & TLS18
D65: Coordinate systems of 5 step colour scales for 10 hues

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