Input: Colorimetric Television Luminous System TLS70

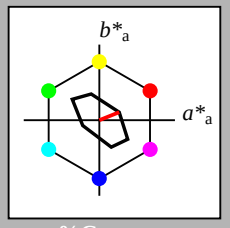
for hue *h = *lab*h* = 22/360 = 0.061**

lab*tch* and *lab*nch

D65: hue O

LCH*Ma: 76 28 22

olv*Ma: 1.0 0.0 0.0



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	−10.76	34.63	36.27	107
L_m	89.32	−35.8	27.64	45.24	142
C_m	90.93	−21.95	−7.07	23.07	198
V_m	72.1	15.76	−35.63	38.97	294
M_m	78.5	37.52	−25.23	45.22	326
N_m	69.7	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

triangle lightness *t**

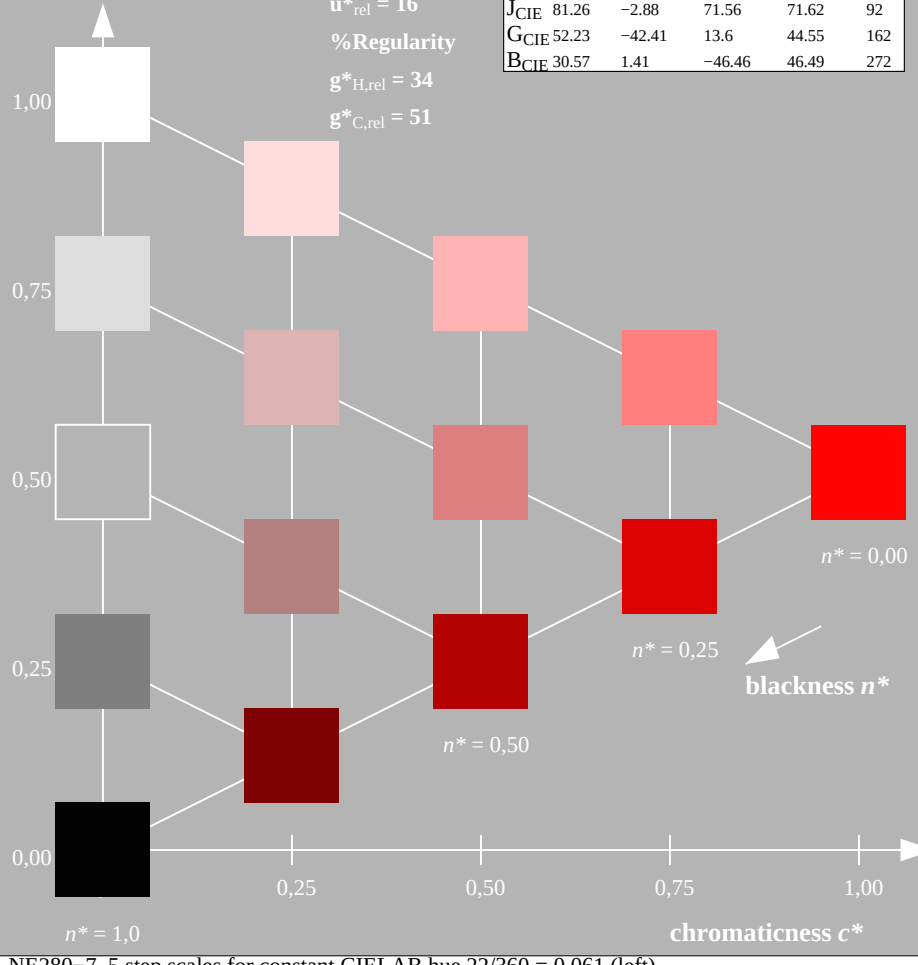
%Gamut

u^*_{rel} = 16

%Regularity

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

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



Output: Colorimetric Television Luminous System TLS00

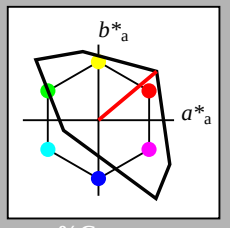
for hue *h = *lab*h* = 40/360 = 0.111**

LAB*LCH, LAB*NCH

D65: hue O

LCH*Ma: 51 100 40

olv*Ma: 1.0 0.0 0.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	−20.69	90.75	93.08	103
L_m	83.63	−82.75	79.9	115.04	136
C_m	86.88	−46.16	−13.55	48.12	196
V_m	30.39	76.06	−103.59	128.52	306
M_m	57.3	94.35	−58.41	110.97	328
N_m	0.01	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**

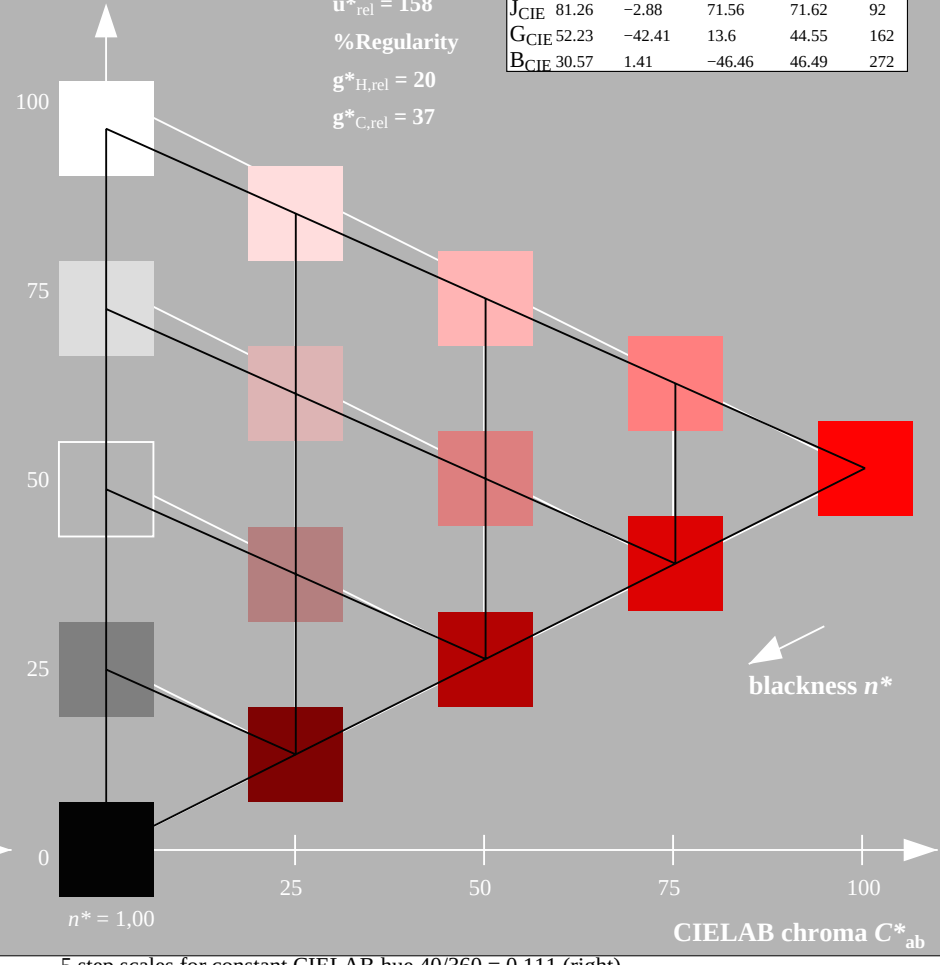
%Gamut

u^*_{rel} = 158

%Regularity

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

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



NE280−7, 5 step scales for constant CIELAB hue 22/360 = 0.061 (left)

5 step scales for constant CIELAB hue 40/360 = 0.111 (right)

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

Input: Colorimetric Television Luminous System TLS70

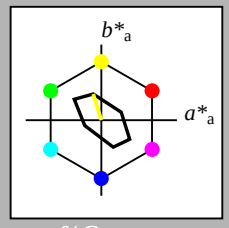
for hue *h = *lab*h* = 107/360 = 0.298**

lab*tch* and *lab*nch

D65: hue Y

LCH*Ma: 94 36 107

olv*Ma: 1.0 1.0 0.0



TLS70; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	−10.76	34.63	36.27	107
L_m	89.32	−35.8	27.64	45.24	142
C_m	90.93	−21.95	−7.07	23.07	198
V_m	72.1	15.76	−35.63	38.97	294
M_m	78.5	37.52	−25.23	45.22	326
N_m	69.7	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

triangle lightness *t**

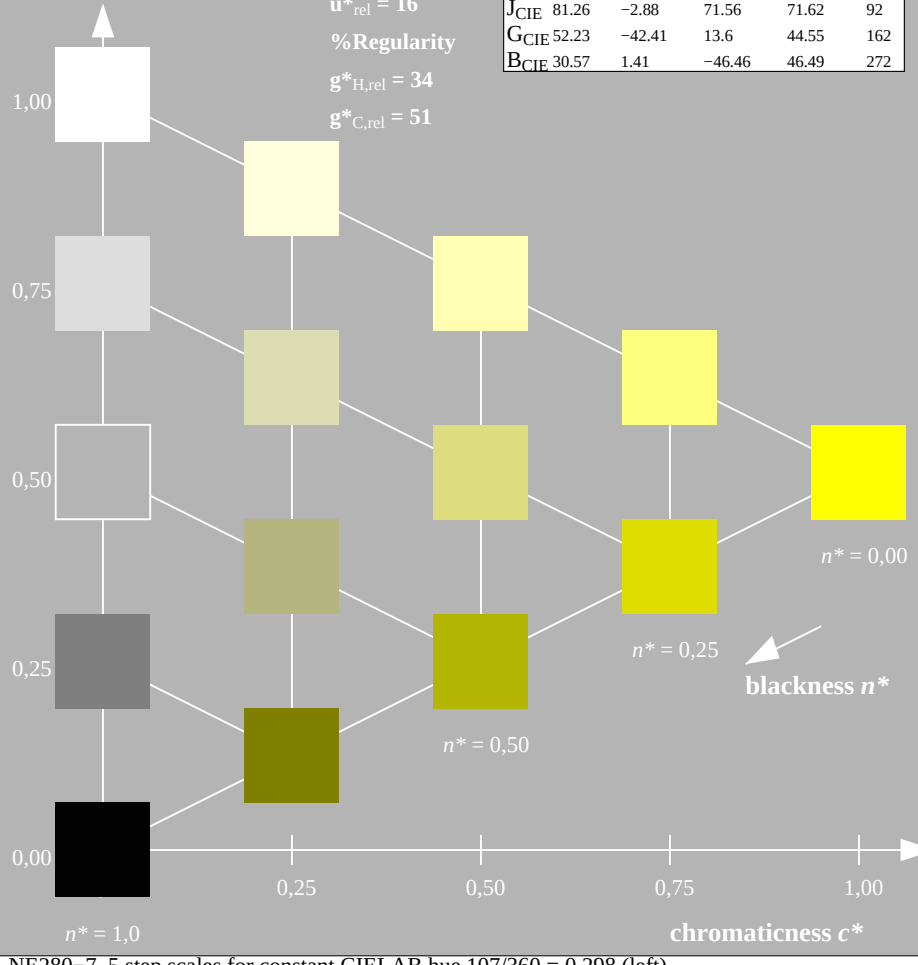
%Gamut

u^*_{rel} = 16

%Regularity

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

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



Output: Colorimetric Television Luminous System TLS00

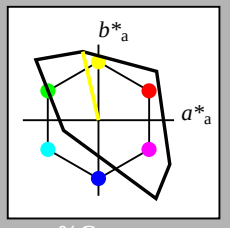
for hue *h = *lab*h* = 103/360 = 0.286**

LAB*LCH, LAB*NCH

D65: hue Y

LCH*Ma: 93 93 103

olv*Ma: 1.0 1.0 0.0



TLS00; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	−20.69	90.75	93.08	103
L_m	83.63	−82.75	79.9	115.04	136
C_m	86.88	−46.16	−13.55	48.12	196
V_m	30.39	76.06	−103.59	128.52	306
M_m	57.3	94.35	−58.41	110.97	328
N_m	0.01	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**

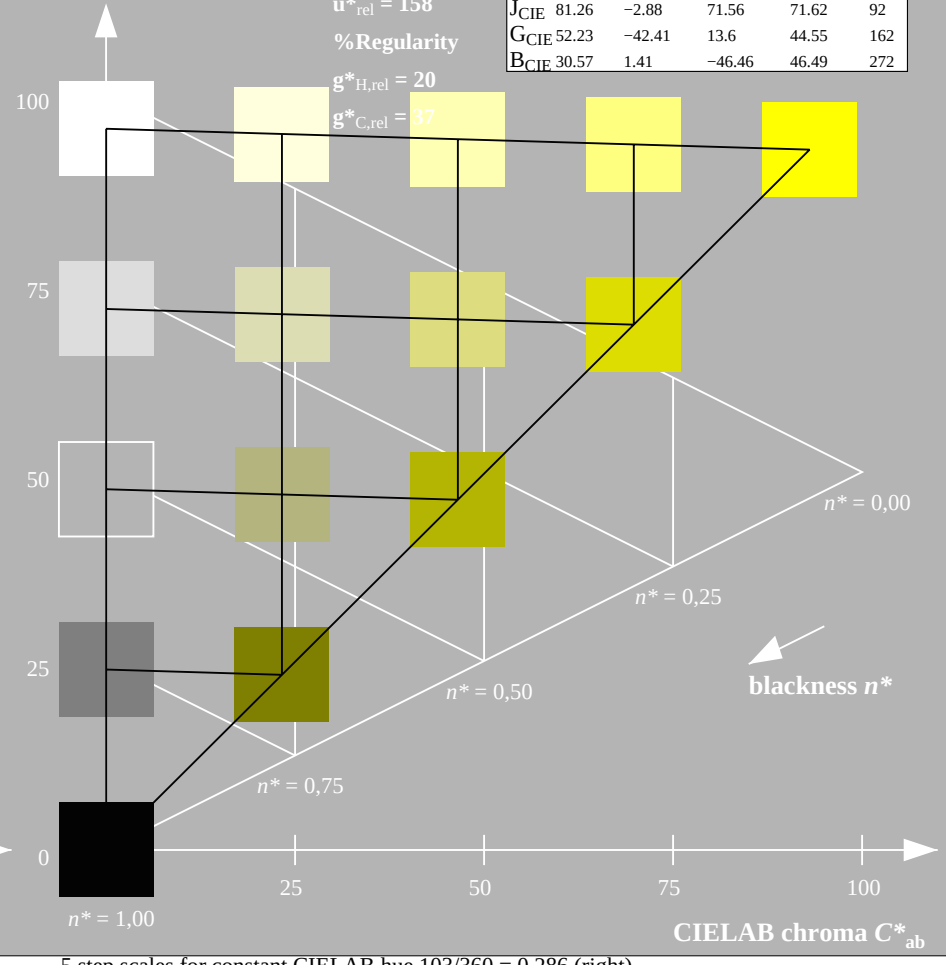
%Gamut

u^*_{rel} = 158

%Regularity

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

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



NE280−7, 5 step scales for constant CIELAB hue 107/360 = 0.298 (left)

5 step scales for constant CIELAB hue 103/360 = 0.286 (right)

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

Input: Colorimetric Television Luminous System TLS70

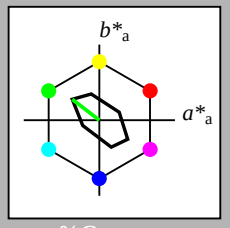
for hue *h = *lab*h* = 142/360 = 0.395**

lab*tch* and *lab*nch

D65: hue L

LCH*Ma: 89 45 142

olv*Ma: 0.0 1.0 0.0



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	−10.76	34.63	36.27	107
L_m	89.32	−35.8	27.64	45.24	142
C_m	90.93	−21.95	−7.07	23.07	198
V_m	72.1	15.76	−35.63	38.97	294
M_m	78.5	37.52	−25.23	45.22	326
N_m	69.7	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

triangle lightness *t**

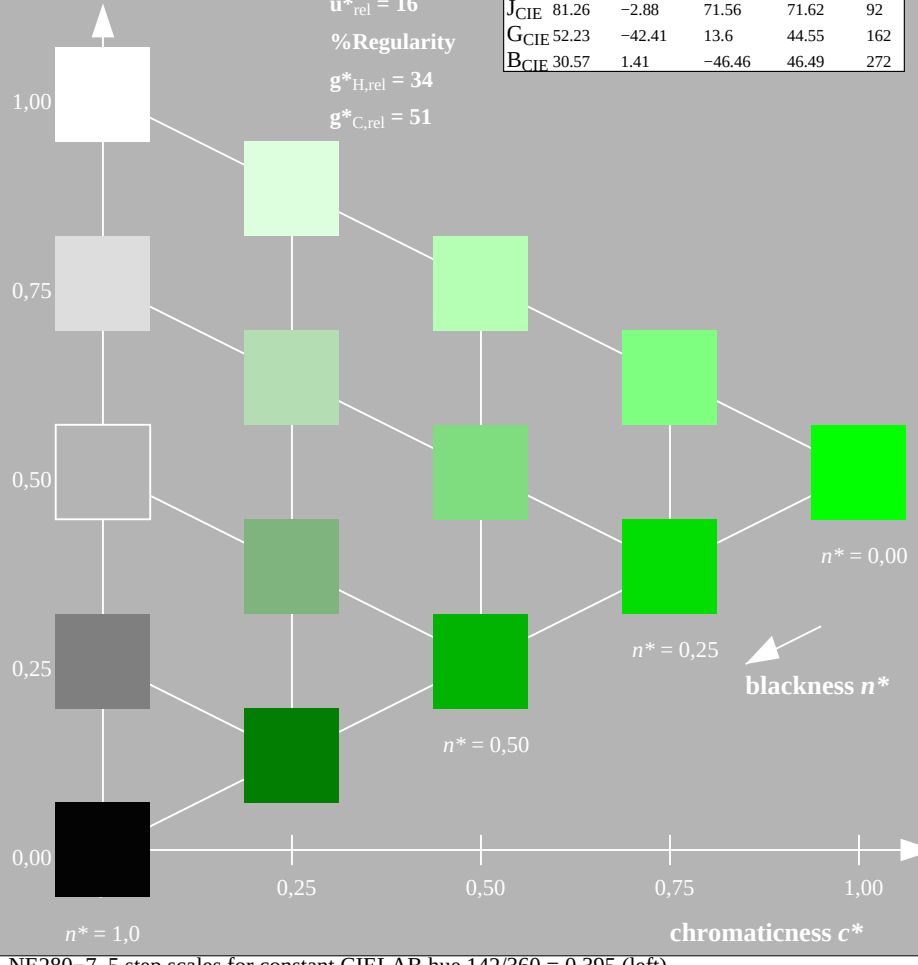
%Gamut

u^*_{rel} = 16

%Regularity

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

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



Output: Colorimetric Television Luminous System TLS00

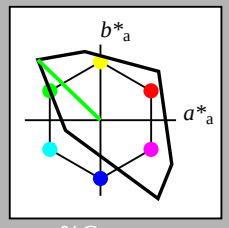
for hue *h = *lab*h* = 136/360 = 0.378**

LAB*LCH, LAB*NCH

D65: hue L

LCH*Ma: 84 115 136

olv*Ma: 0.0 1.0 0.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	−20.69	90.75	93.08	103
L_m	83.63	−82.75	79.9	115.04	136
C_m	86.88	−46.16	−13.55	48.12	196
V_m	30.39	76.06	−103.59	128.52	306
M_m	57.3	94.35	−58.41	110.97	328
N_m	0.01	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**

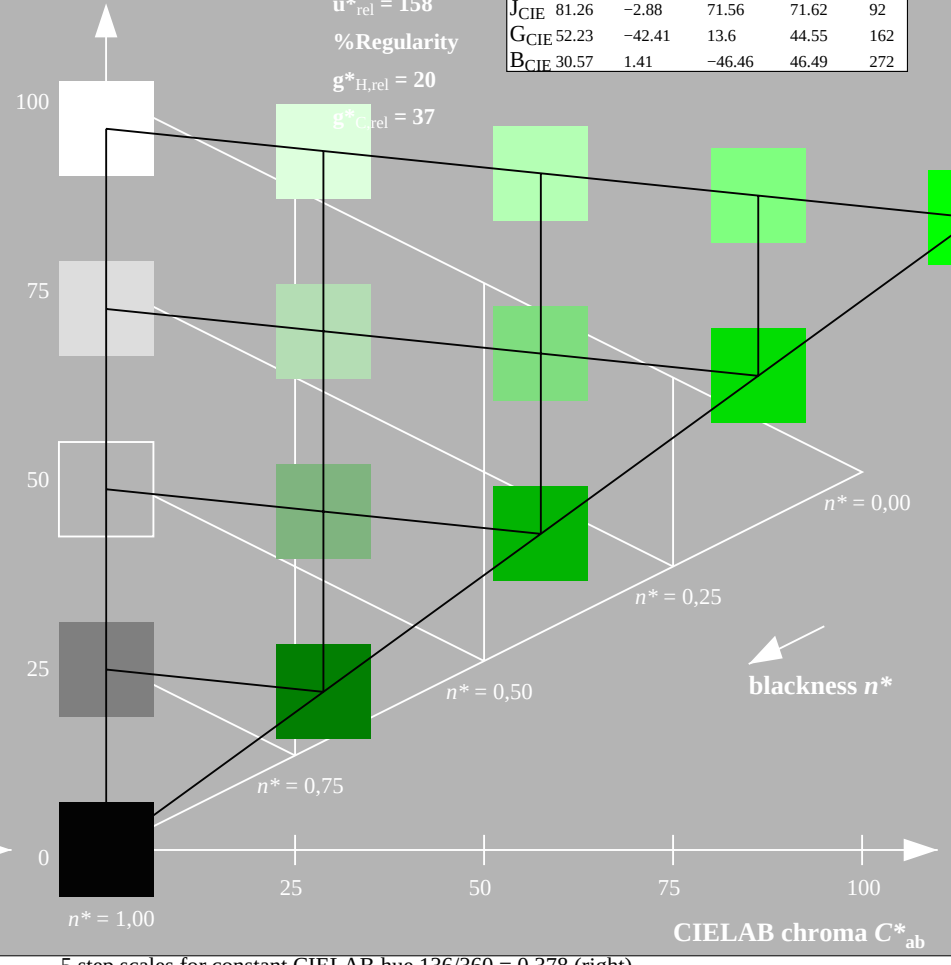
%Gamut

u^*_{rel} = 158

%Regularity

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

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



NE280−7, 5 step scales for constant CIELAB hue 142/360 = 0.395 (left)

5 step scales for constant CIELAB hue 136/360 = 0.378 (right)

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

Input: Colorimetric Television Luminous System TLS70

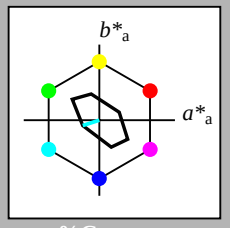
for hue *h = *lab*h* = 198/360 = 0.55**

lab*tch* and *lab*nch

D65: hue C

LCH*Ma: 91 23 198

olv*Ma: 0.0 1.0 1.0



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	−10.76	34.63	36.27	107
L_m	89.32	−35.8	27.64	45.24	142
C_m	90.93	−21.95	−7.07	23.07	198
V_m	72.1	15.76	−35.63	38.97	294
M_m	78.5	37.52	−25.23	45.22	326
N_m	69.7	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

triangle lightness *t**

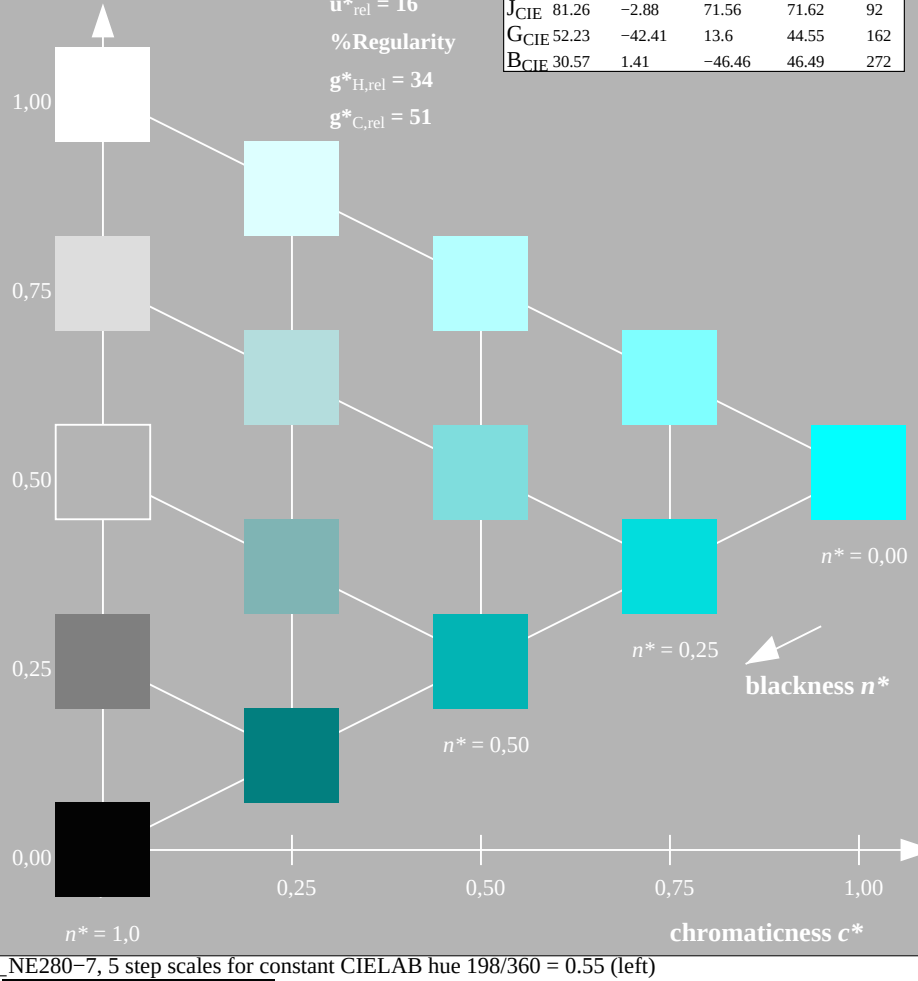
%Gamut

u^*_{rel} = 16

%Regularity

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

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



Output: Colorimetric Television Luminous System TLS00

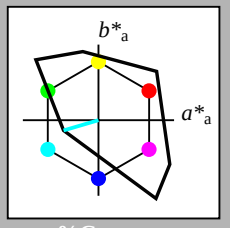
for hue *h = *lab*h* = 196/360 = 0.545**

LAB*LCH, LAB*NCH

D65: hue C

LCH*Ma: 87 48 196

olv*Ma: 0.0 1.0 1.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	−20.69	90.75	93.08	103
L_m	83.63	−82.75	79.9	115.04	136
C_m	86.88	−46.16	−13.55	48.12	196
V_m	30.39	76.06	−103.59	128.52	306
M_m	57.3	94.35	−58.41	110.97	328
N_m	0.01	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**

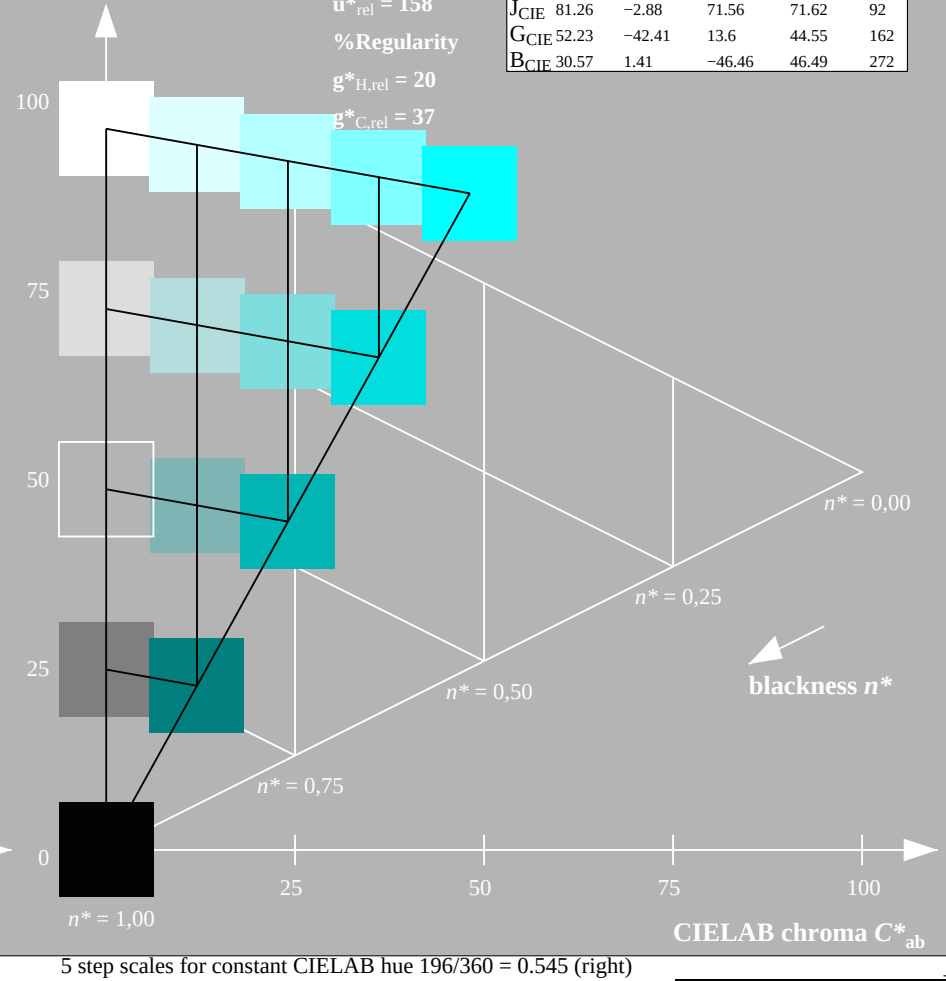
%Gamut

u^*_{rel} = 158

%Regularity

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

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



NE280−7, 5 step scales for constant CIELAB hue 198/360 = 0.55 (left)

5 step scales for constant CIELAB hue 196/360 = 0.545 (right)

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

Input: Colorimetric Television Luminous System TLS70

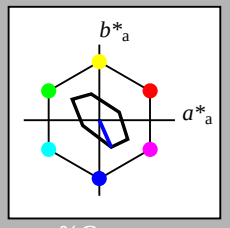
for hue *h = *lab*h* = 294/360 = 0.816**

lab*tch* and *lab*nch

D65: hue V

LCH*Ma: 72 39 294

olv*Ma: 0.0 0.0 1.0



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	−10.76	34.63	36.27	107
L_m	89.32	−35.8	27.64	45.24	142
C_m	90.93	−21.95	−7.07	23.07	198
V_m	72.1	15.76	−35.63	38.97	294
M_m	78.5	37.52	−25.23	45.22	326
N_m	69.7	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

triangle lightness *t**

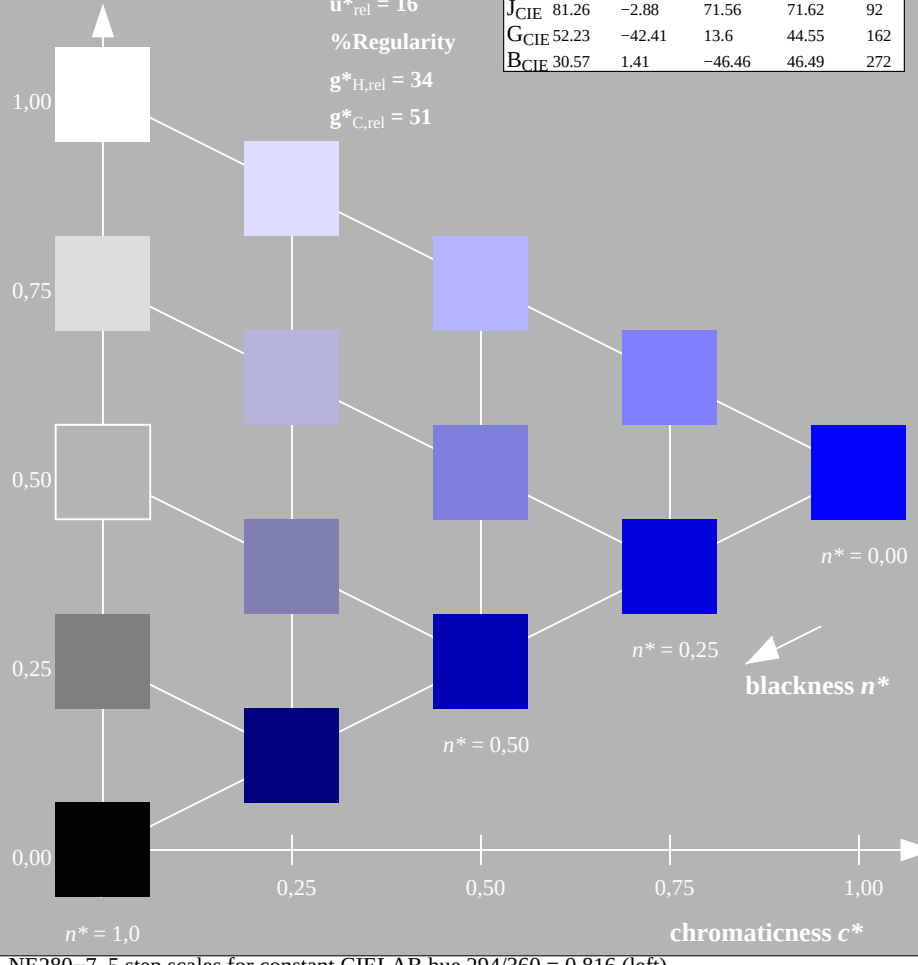
%Gamut

u^*_{rel} = 16

%Regularity

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

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



Output: Colorimetric Television Luminous System TLS00

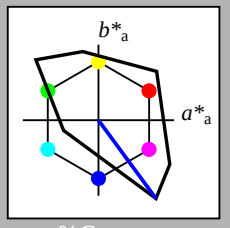
for hue *h = *lab*h* = 306/360 = 0.851**

LAB*LCH, LAB*NCH

D65: hue V

LCH*Ma: 30 129 306

olv*Ma: 0.0 0.0 1.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	−20.69	90.75	93.08	103
L_m	83.63	−82.75	79.9	115.04	136
C_m	86.88	−46.16	−13.55	48.12	196
V_m	30.39	76.06	−103.59	128.52	306
M_m	57.3	94.35	−58.41	110.97	328
N_m	0.01	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**

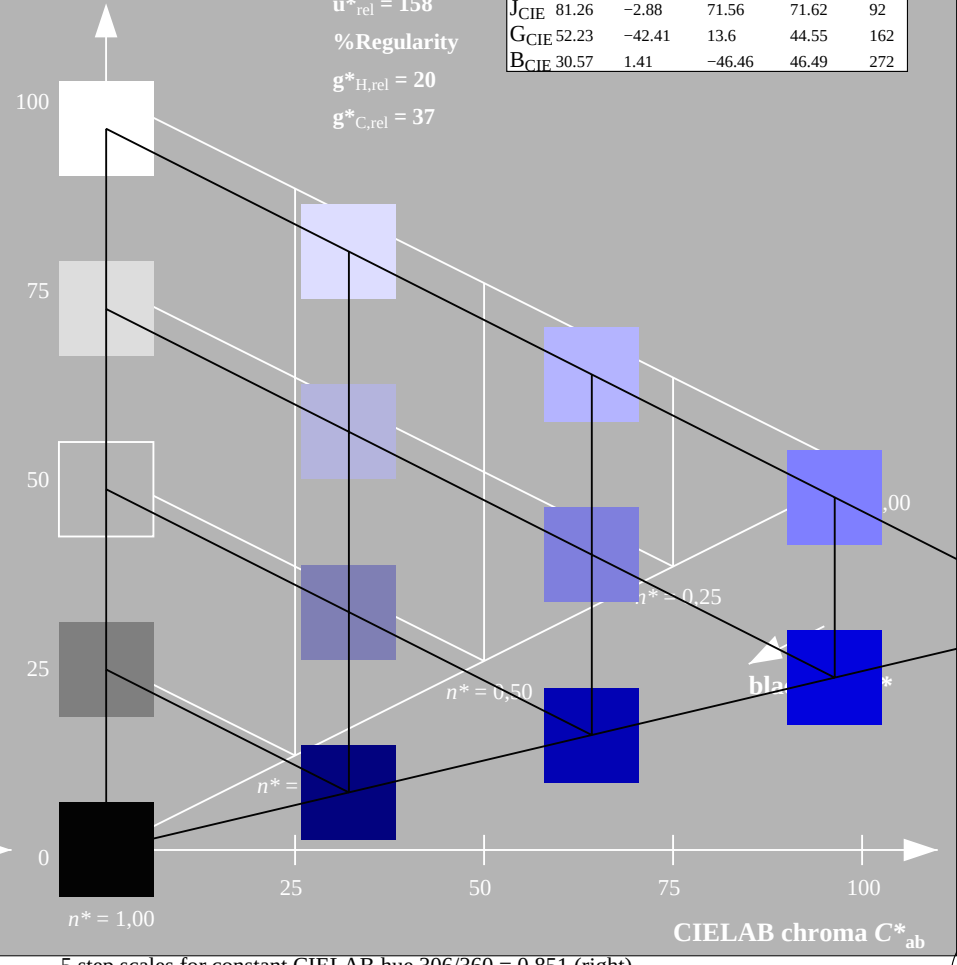
%Gamut

u^*_{rel} = 158

%Regularity

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

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



NE280−7, 5 step scales for constant CIELAB hue 294/360 = 0.816 (left)

5 step scales for constant CIELAB hue 306/360 = 0.851 (right)

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

Input: Colorimetric Television Luminous System TLS70

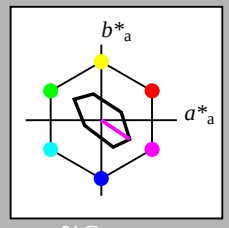
for hue *h = *lab*h* = 326/360 = 0.906**

lab*tch* and *lab*nch

D65: hue M

LCH*Ma: 79 45 326

olv*Ma: 1.0 0.0 1.0



TLS70; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	−10.76	34.63	36.27	107
L_m	89.32	−35.8	27.64	45.24	142
C_m	90.93	−21.95	−7.07	23.07	198
V_m	72.1	15.76	−35.63	38.97	294
M_m	78.5	37.52	−25.23	45.22	326
N_m	69.7	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

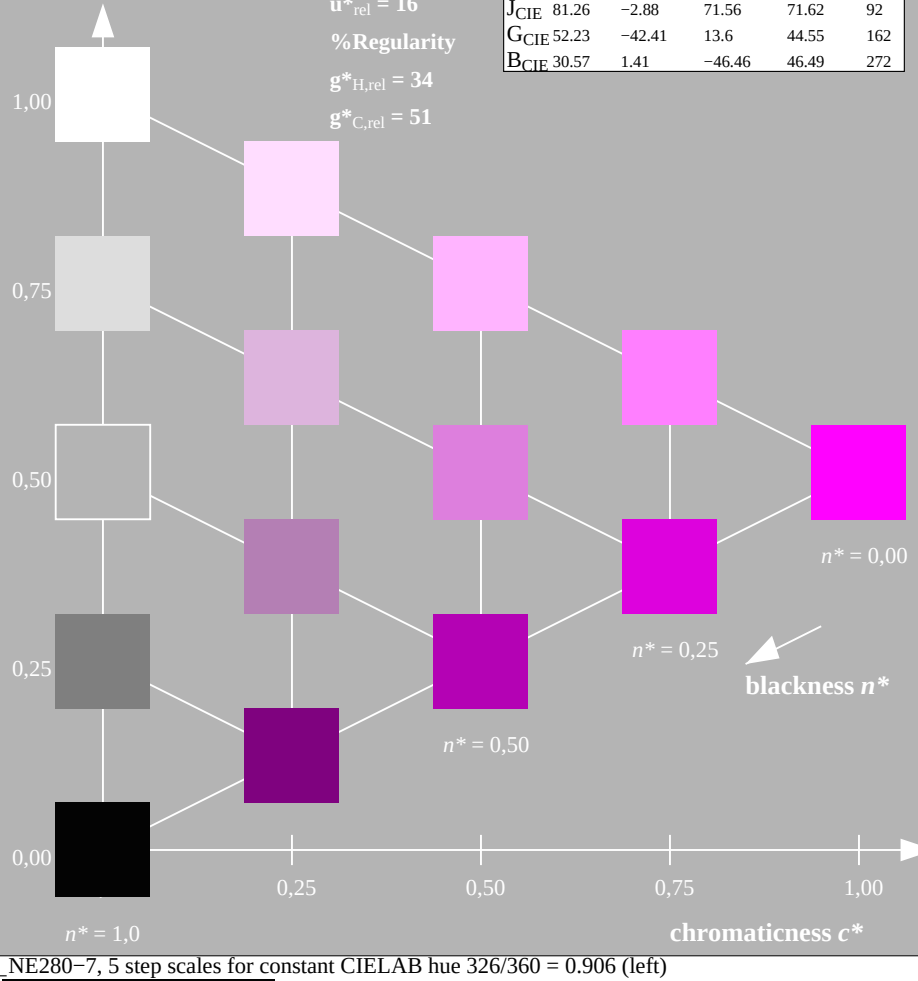
u*rel = 16

%Regularity

g*H,rel = 34

g*C,rel = 51

triangle lightness *t**



Output: Colorimetric Television Luminous System TLS00

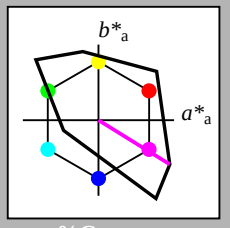
for hue *h = *lab*h* = 328/360 = 0.912**

LAB*LCH, LAB*NCH

D65: hue M

LCH*Ma: 57 111 328

olv*Ma: 1.0 0.0 1.0



TLS00; adapted (a) CIELAB data

	L=L*a*	*a*a*	*b*a*	*C*ab,a*	*h*ab,a*
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	−20.69	90.75	93.08	103
L_m	83.63	−82.75	79.9	115.04	136
C_m	86.88	−46.16	−13.55	48.12	196
V_m	30.39	76.06	−103.59	128.52	306
M_m	57.3	94.35	−58.41	110.97	328
N_m	0.01	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

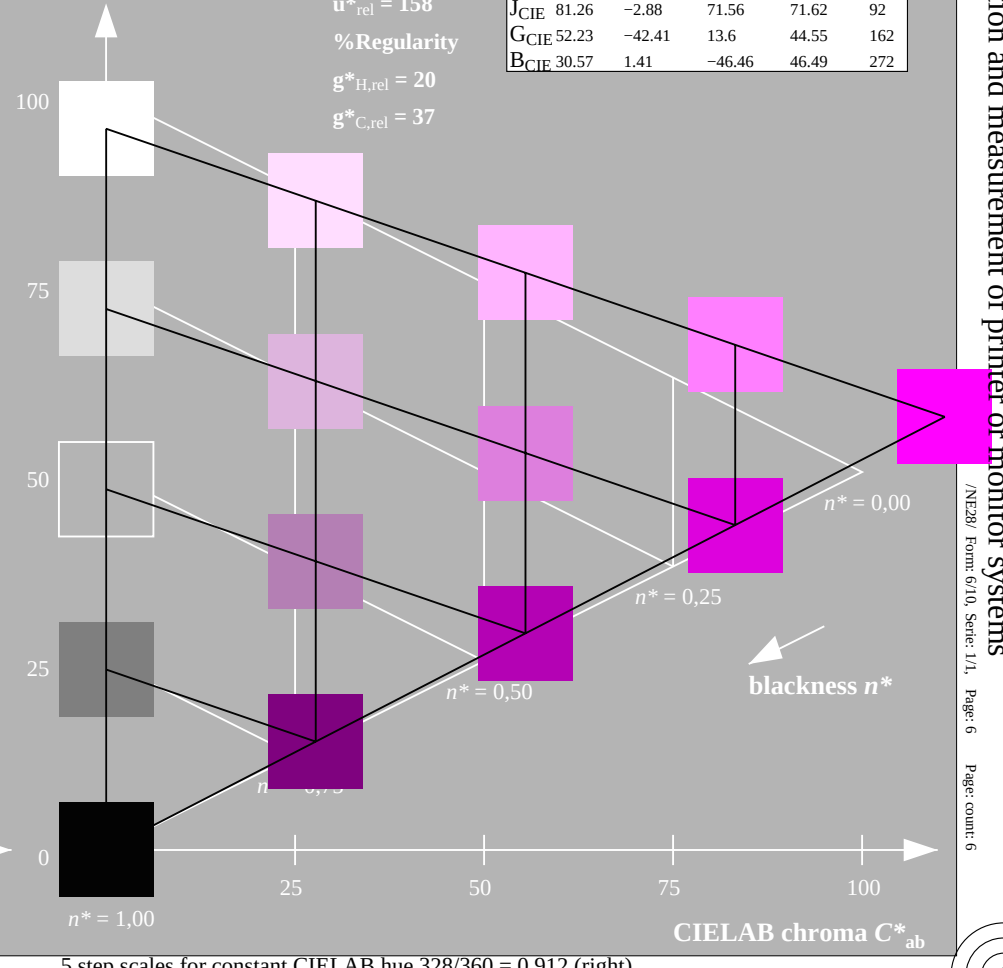
u*rel = 158

%Regularity

g*H,rel = 20

g*C,rel = 37

CIELAB lightness *L**



NE280−7, 5 step scales for constant CIELAB hue 326/360 = 0.906 (left)

5 step scales for constant CIELAB hue 328/360 = 0.912 (right)

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

Input: Colorimetric Television Luminous System TLS70

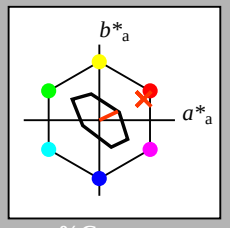
for hue *h = *lab*h* = 25/360 = 0.071**

lab*tch* and *lab*nch

D65: hue R

LCH*Ma: 77 27 25

olv*Ma: 1.0 0.05 0.0



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	−10.76	34.63	36.27	107
L_m	89.32	−35.8	27.64	45.24	142
C_m	90.93	−21.95	−7.07	23.07	198
V_m	72.1	15.76	−35.63	38.97	294
M_m	78.5	37.52	−25.23	45.22	326
N_m	69.7	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

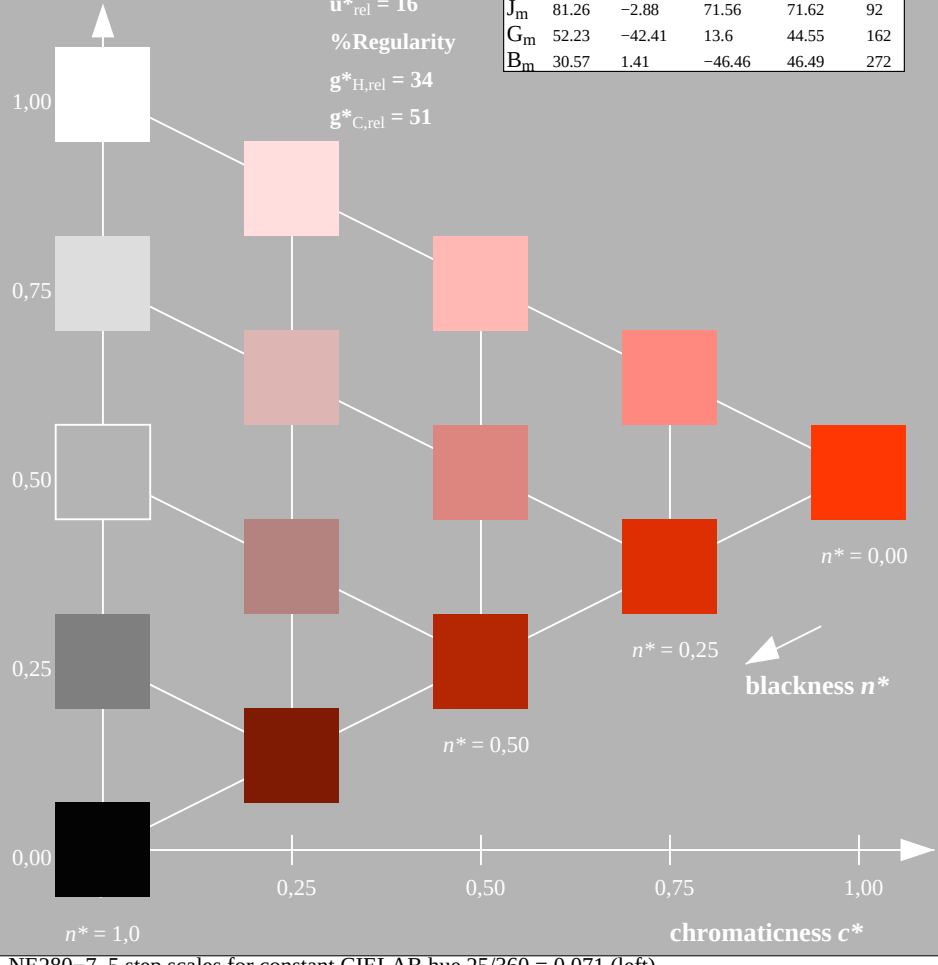
u^*_{rel} = 16

%Regularity

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

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

triangle lightness *t**



Output: Colorimetric Television Luminous System TLS00

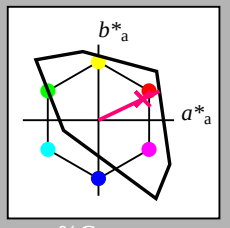
for hue *h = *lab*h* = 25/360 = 0.071**

LAB*LCH, LAB*NCH

D65: hue R

LCH*Ma: 52 89 25

olv*Ma: 1.0 0.0 0.21



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	−20.69	90.75	93.08	103
L_m	83.63	−82.75	79.9	115.04	136
C_m	86.88	−46.16	−13.55	48.12	196
V_m	30.39	76.06	−103.59	128.52	306
M_m	57.3	94.35	−58.41	110.97	328
N_m	0.01	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

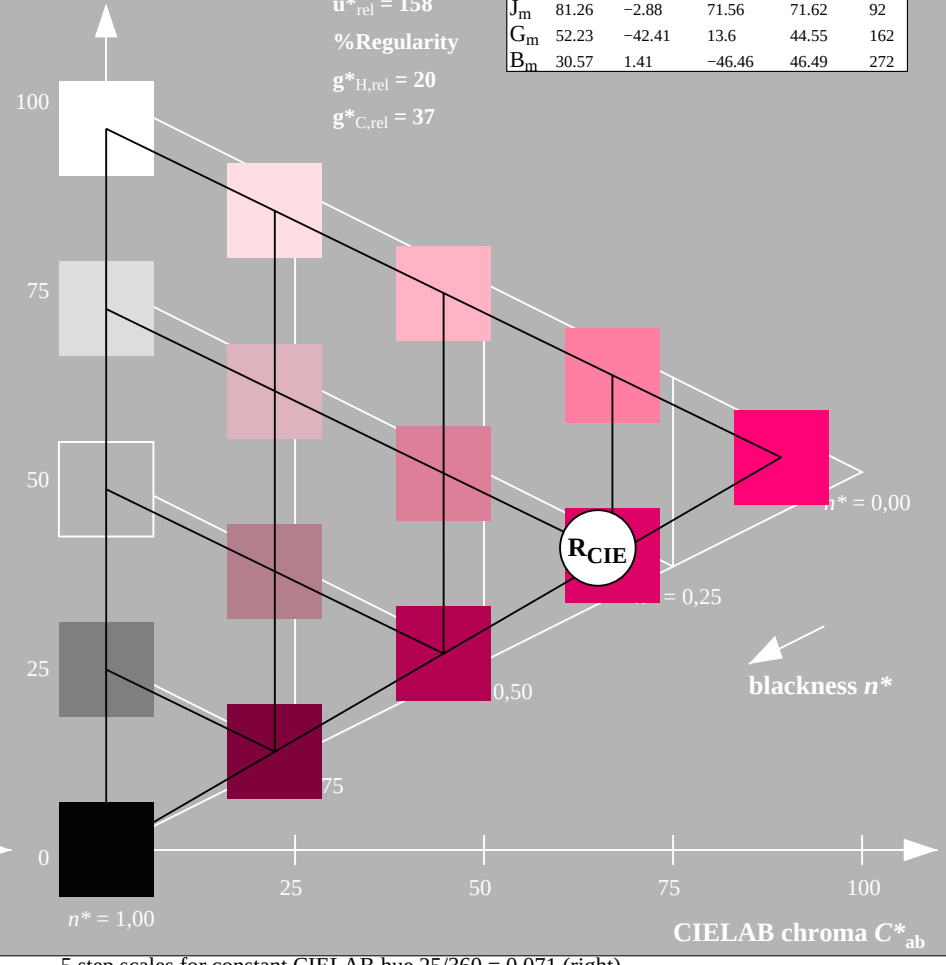
u^*_{rel} = 158

%Regularity

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

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

CIELAB lightness *L**



NE280−7, 5 step scales for constant CIELAB hue 25/360 = 0.071 (left)

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

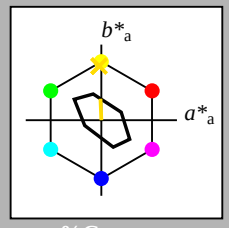
BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

Input: Colorimetric Television Luminous System TLS70

for hue *h** = *lab*h* = 92/360 = 0.256
*lab*tch* and *lab*nch*

D65: hue J
LCH*Ma: 89 28 92
olv*Ma: 1.0 0.74 0.0

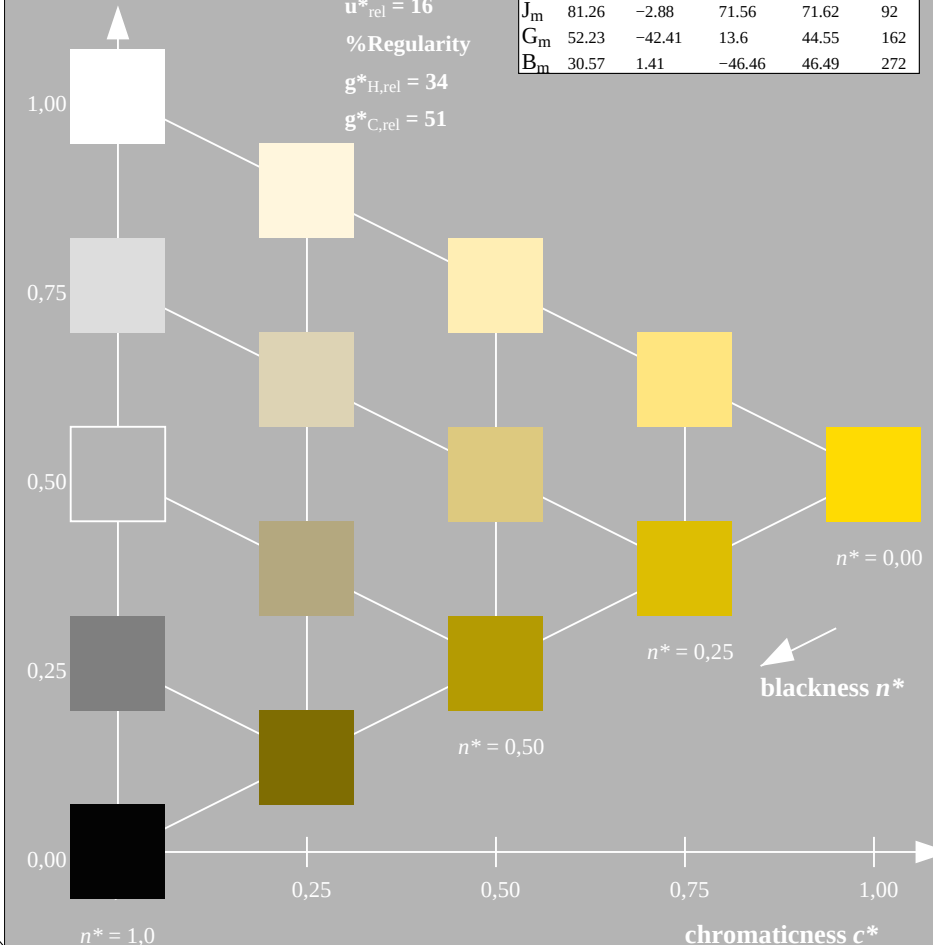


%Gamut
u*rel = 16
%Regularity
g*H,rel = 34
g*C,rel = 51

TLS70; adapted (a) CIELAB data

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
Om	76.43	26.27	10.57	28.32	22
Ym	93.93	−10.76	34.63	36.27	107
Lm	89.32	−35.8	27.64	45.24	142
Cm	90.93	−21.95	−7.07	23.07	198
Vm	72.1	15.76	−35.63	38.97	294
Mm	78.5	37.52	−25.23	45.22	326
Nm	69.7	0.0	0.0	0.0	0
Wm	95.41	0.0	0.0	0.0	0
Rm	39.92	58.74	27.99	65.07	25
Jm	81.26	−2.88	71.56	71.62	92
Gm	52.23	−42.41	13.6	44.55	162
Bm	30.57	1.41	−46.46	46.49	272

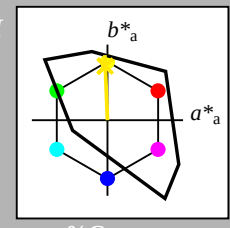
triangle lightness *t**



Output: Colorimetric Television Luminous System TLS00

for hue *h** = *lab*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

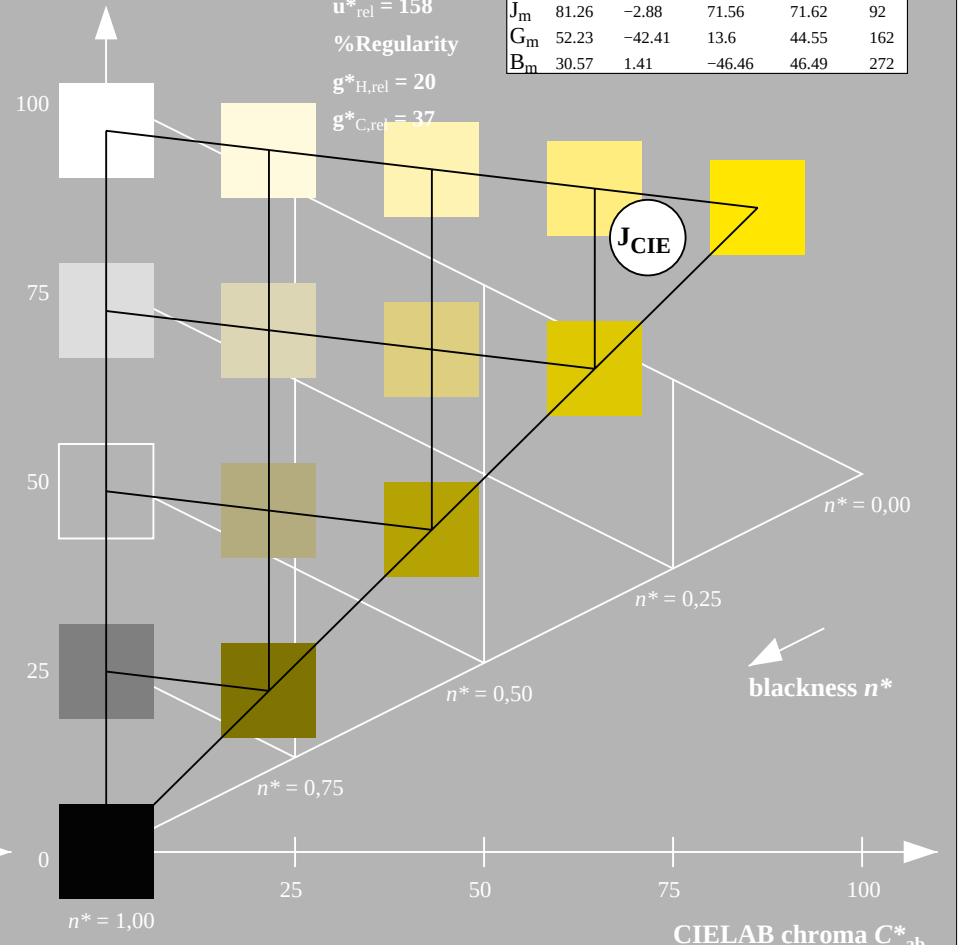


%Gamut
u*rel = 158
%Regularity
g*H,rel = 20
g*C,rel = 37

TLS00; adapted (a) CIELAB data

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
Om	50.5	76.92	64.55	100.42	40
Ym	92.66	−20.69	90.75	93.08	103
Lm	83.63	−82.75	79.9	115.04	136
Cm	86.88	−46.16	−13.55	48.12	196
Vm	30.39	76.06	−103.59	128.52	306
Mm	57.3	94.35	−58.41	110.97	328
Nm	0.01	0.0	0.0	0.0	0
Wm	95.41	0.0	0.0	0.0	0
Rm	39.92	58.74	27.99	65.07	25
Jm	81.26	−2.88	71.56	71.62	92
Gm	52.23	−42.41	13.6	44.55	162
Bm	30.57	1.41	−46.46	46.49	272

CIELAB lightness *L**



NE280−7, 5 step scales for constant CIELAB hue 92/360 = 0.256 (left)

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

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

Input: Colorimetric Television Luminous System TLS70

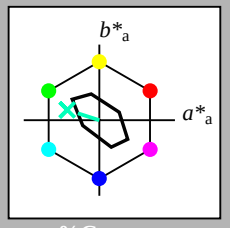
for hue *h = *lab*h* = 162/360 = 0.451**

lab*tch* and *lab*nch

D65: hue G

LCH*Ma: 90 30 162

olv*Ma: 0.0 1.0 0.53



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	−10.76	34.63	36.27	107
L_m	89.32	−35.8	27.64	45.24	142
C_m	90.93	−21.95	−7.07	23.07	198
V_m	72.1	15.76	−35.63	38.97	294
M_m	78.5	37.52	−25.23	45.22	326
N_m	69.7	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

triangle lightness *t**

%Gamut

u^*_{rel} = 16

%Regularity

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

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

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

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

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

blackness *n**

chromaticness *c**

Output: Colorimetric Television Luminous System TLS00

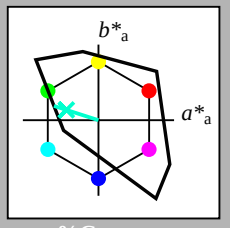
for hue *h = *lab*h* = 162/360 = 0.451**

LAB*LCH, LAB*NCH

D65: hue G

LCH*Ma: 86 62 162

olv*Ma: 0.0 1.0 0.65



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	−20.69	90.75	93.08	103
L_m	83.63	−82.75	79.9	115.04	136
C_m	86.88	−46.16	−13.55	48.12	196
V_m	30.39	76.06	−103.59	128.52	306
M_m	57.3	94.35	−58.41	110.97	328
N_m	0.01	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} = 158

%Regularity

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

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

100
75
50
25
0

G_{CIE}

*n** = 0,00
*n** = 0,25
*n** = 0,50
*n** = 0,75
*n** = 1,00

25 50 75 100

blackness *n**

CIELAB chroma C^*_{ab}

NE280−7, 5 step scales for constant CIELAB hue 162/360 = 0.451 (left)

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

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*

Input: Colorimetric Television Luminous System TLS70

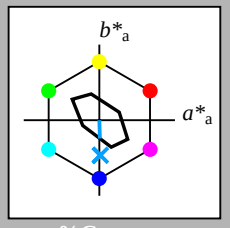
for hue *h = *lab*h* = 272/360 = 0.755**

lab*tch* and *lab*nch

D65: hue B

LCH*Ma: 80 24 272

olv*Ma: 0.0 0.4 1.0



TLS70; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	76.43	26.27	10.57	28.32	22
Y_m	93.93	−10.76	34.63	36.27	107
L_m	89.32	−35.8	27.64	45.24	142
C_m	90.93	−21.95	−7.07	23.07	198
V_m	72.1	15.76	−35.63	38.97	294
M_m	78.5	37.52	−25.23	45.22	326
N_m	69.7	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

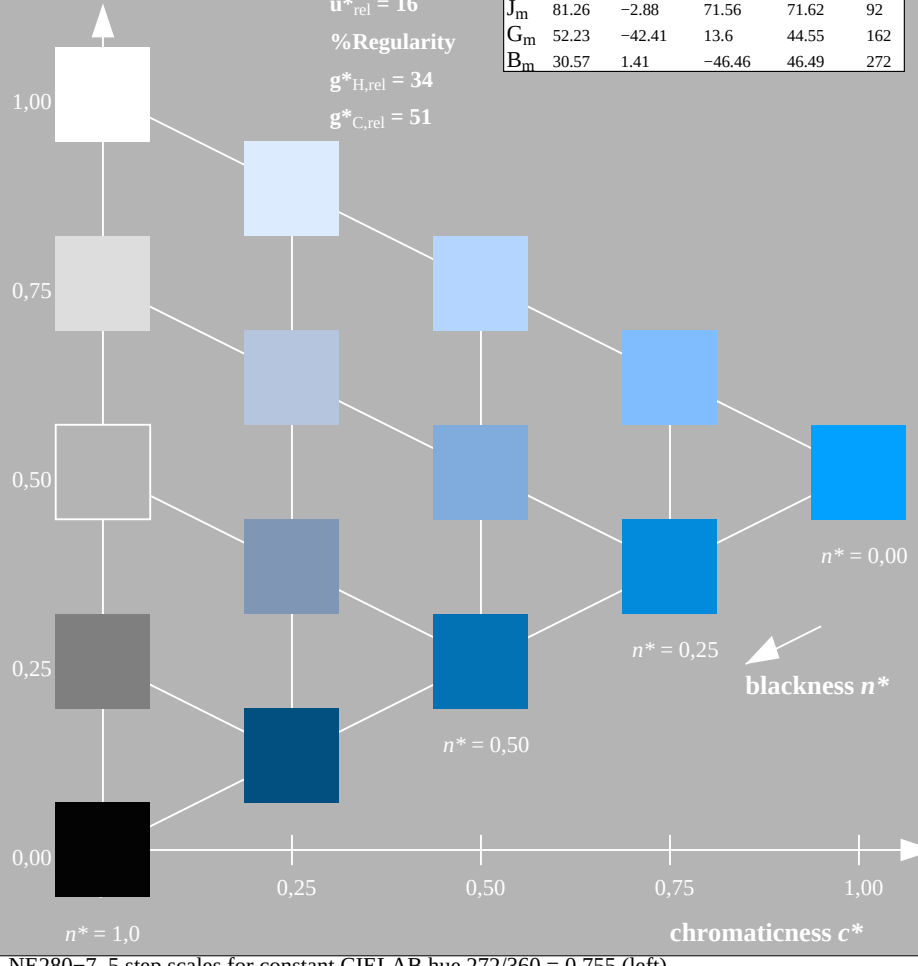
u^*_{rel} = 16

%Regularity

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

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

triangle lightness *t**



Output: Colorimetric Television Luminous System TLS00

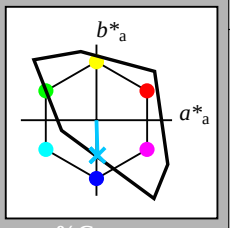
for hue *h = *lab*h* = 272/360 = 0.755**

LAB*LCH, LAB*NCH

D65: hue B

LCH*Ma: 65 49 272

olv*Ma: 0.0 0.61 1.0



TLS00; adapted (a) CIELAB data

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_m	50.5	76.92	64.55	100.42	40
Y_m	92.66	−20.69	90.75	93.08	103
L_m	83.63	−82.75	79.9	115.04	136
C_m	86.88	−46.16	−13.55	48.12	196
V_m	30.39	76.06	−103.59	128.52	306
M_m	57.3	94.35	−58.41	110.97	328
N_m	0.01	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

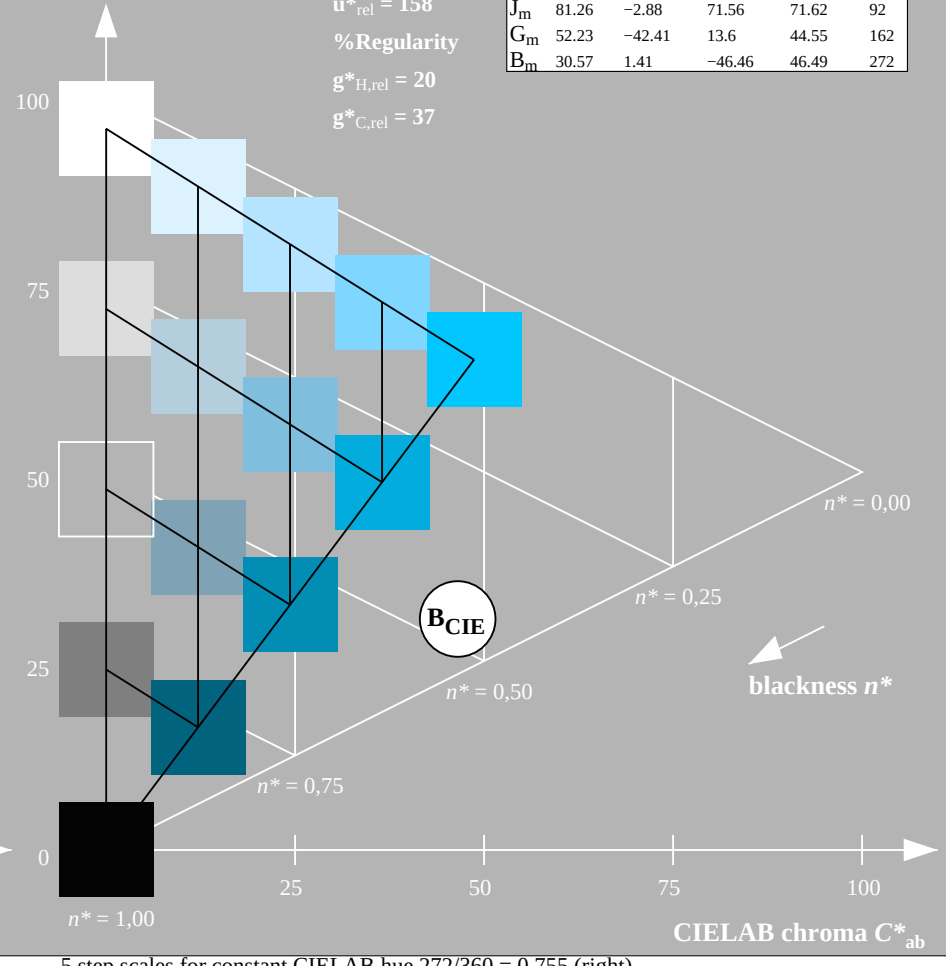
u^*_{rel} = 158

%Regularity

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

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

CIELAB lightness *L**



NE280−7, 5 step scales for constant CIELAB hue 272/360 = 0.755 (left)

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

BAM-test chart NE28; Colorimetric systems TLS70 & TLS00
D65: Coordinate systems of 5 step colour scales for 10 hues

input: *olv* setrgbcolor*
output: *olv* setrgbcolor / w* setgray*