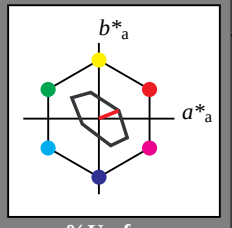
Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 22/360 = 0.061**
lab*tch* und *lab*nch

D65: Buntton O
LCH*Ma: 76 28 22
olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit *t**



%Umfang

u^*_{rel} = 16

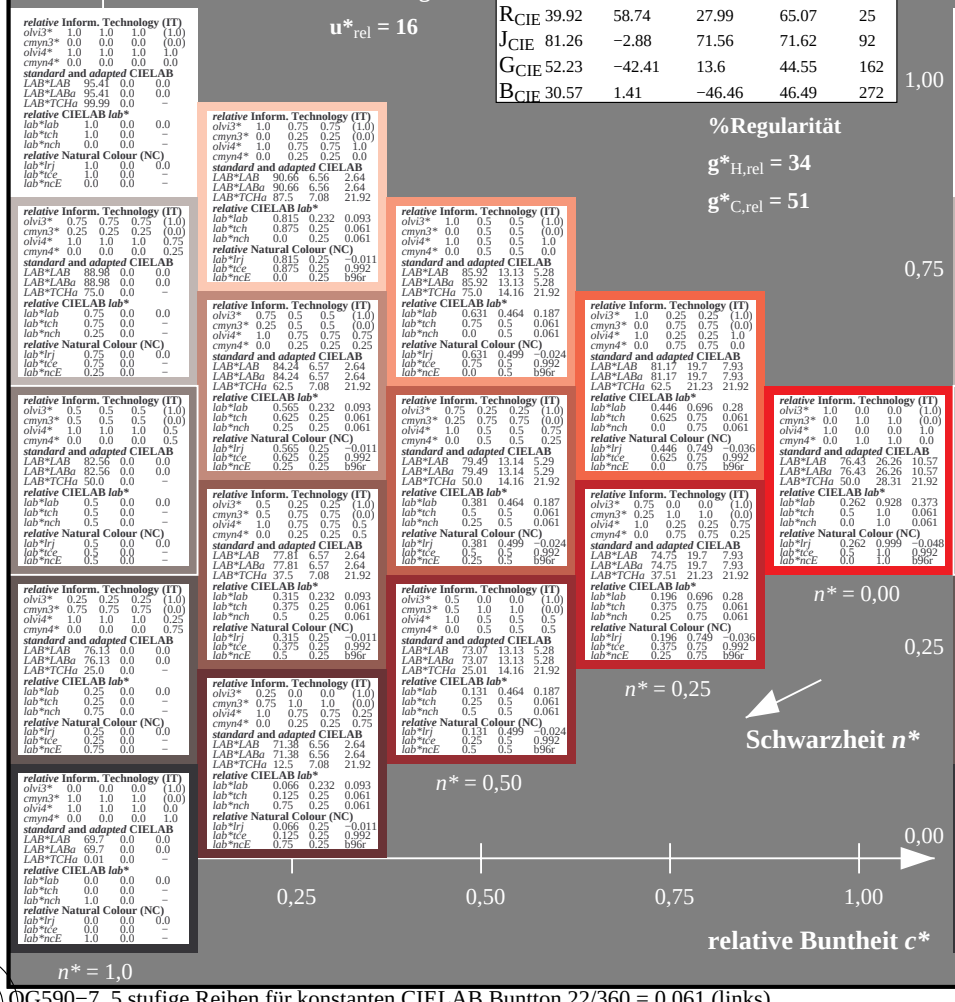
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

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

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



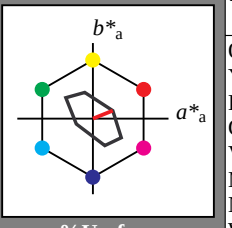
OG590−7, 5 stufige Reihen für konstanten CIELAB Buntton 22/360 = 0.061 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 22/360 = 0.061**
lab*tch* und *lab*nch

D65: Buntton O
LCH*Ma: 76 28 22
olv*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit *t**



%Umfang

u^*_{rel} = 16

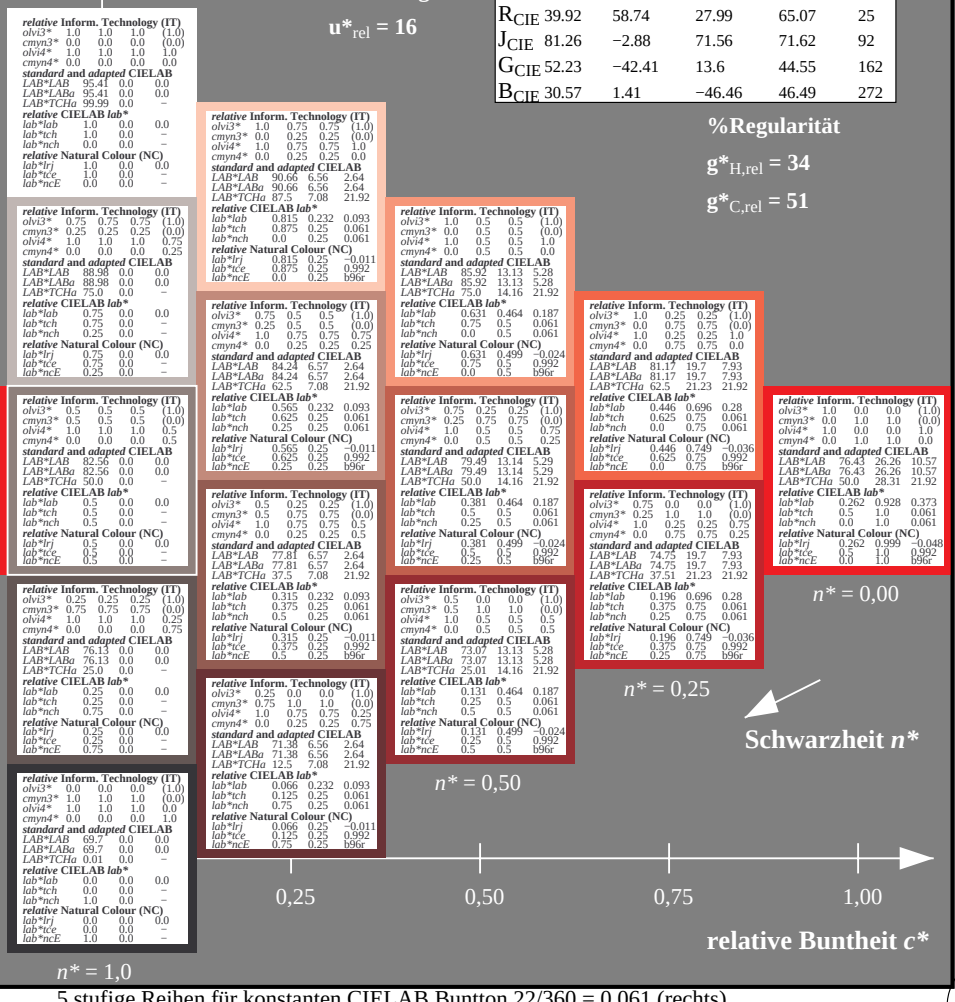
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

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

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



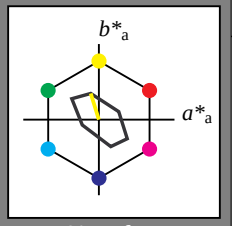
5 stufige Reihen für konstanten CIELAB Buntton 22/360 = 0.061 (rechts)

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 107/360 = 0.298***
lab*tch* und *lab*nch

D65: Buntton Y
LCH*Ma: 94 36 107
olv*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

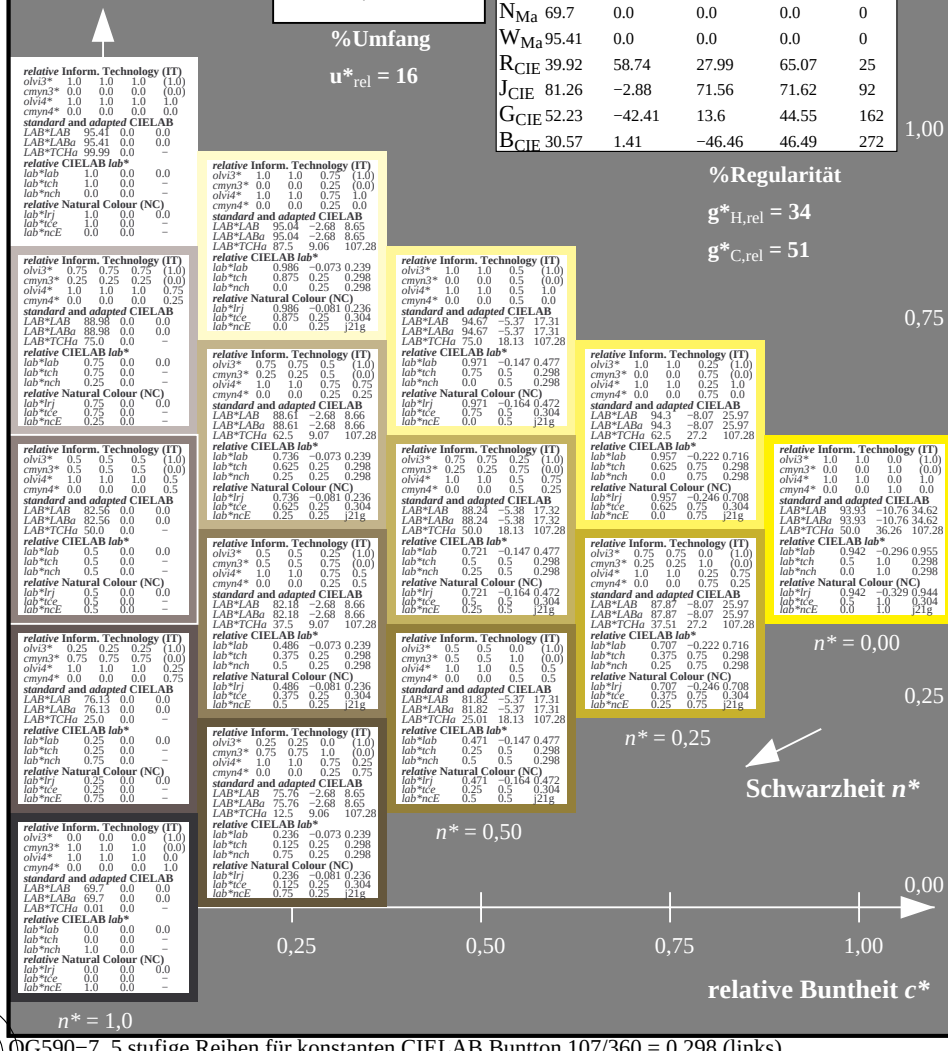
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



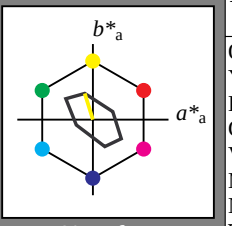
OG590−7, 5 stufige Reihen für konstanten CIELAB Buntton 107/360 = 0.298 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 107/360 = 0.298***
lab*tch* und *lab*nch

D65: Buntton Y
LCH*Ma: 94 36 107
olv*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

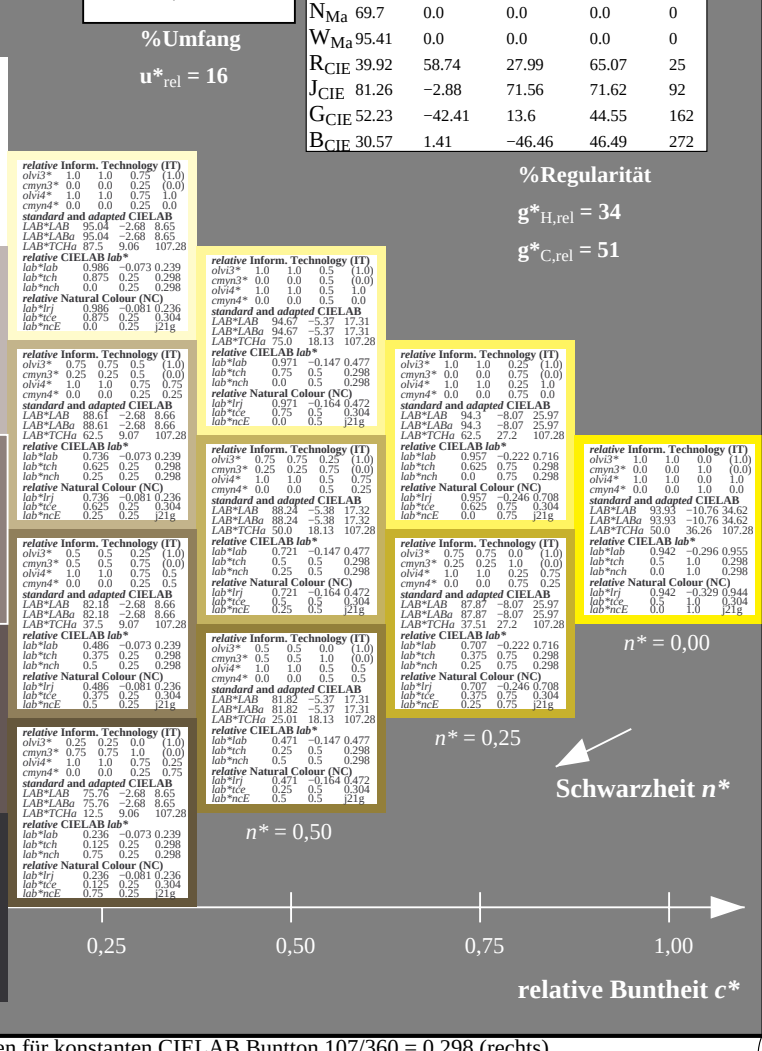
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



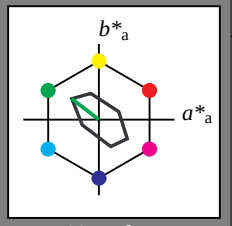
5 stufige Reihen für konstanten CIELAB Buntton 107/360 = 0.298 (rechts)

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 142/360 = 0.395**
lab*tch* und *lab*nch

D65: Buntton L
LCH*Ma: 89 45 142
olv*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

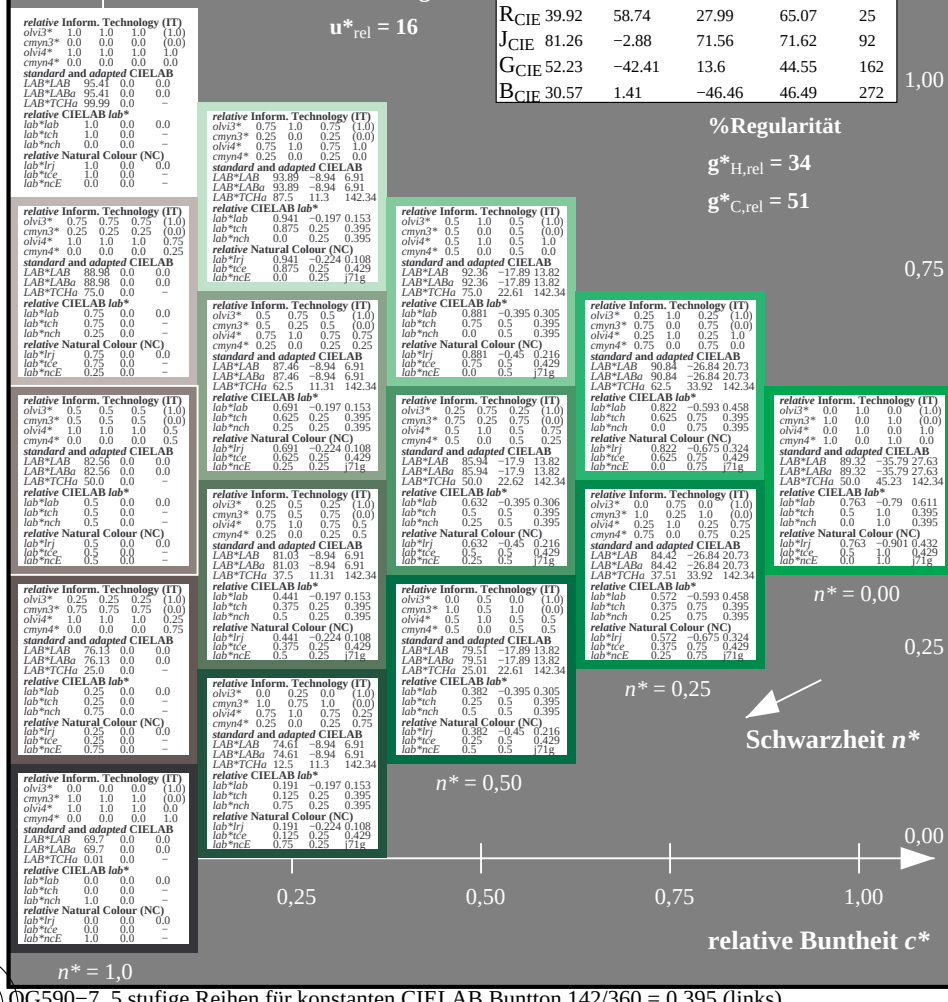
TLS70; adaptierte CIELAB-Daten

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



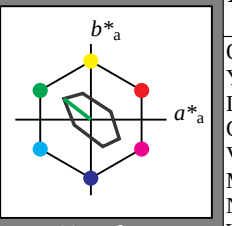
OG590−7, 5 stufige Reihen für konstanten CIELAB Buntton 142/360 = 0.395 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 142/360 = 0.395**
lab*tch* und *lab*nch

D65: Buntton L
LCH*Ma: 89 45 142
olv*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

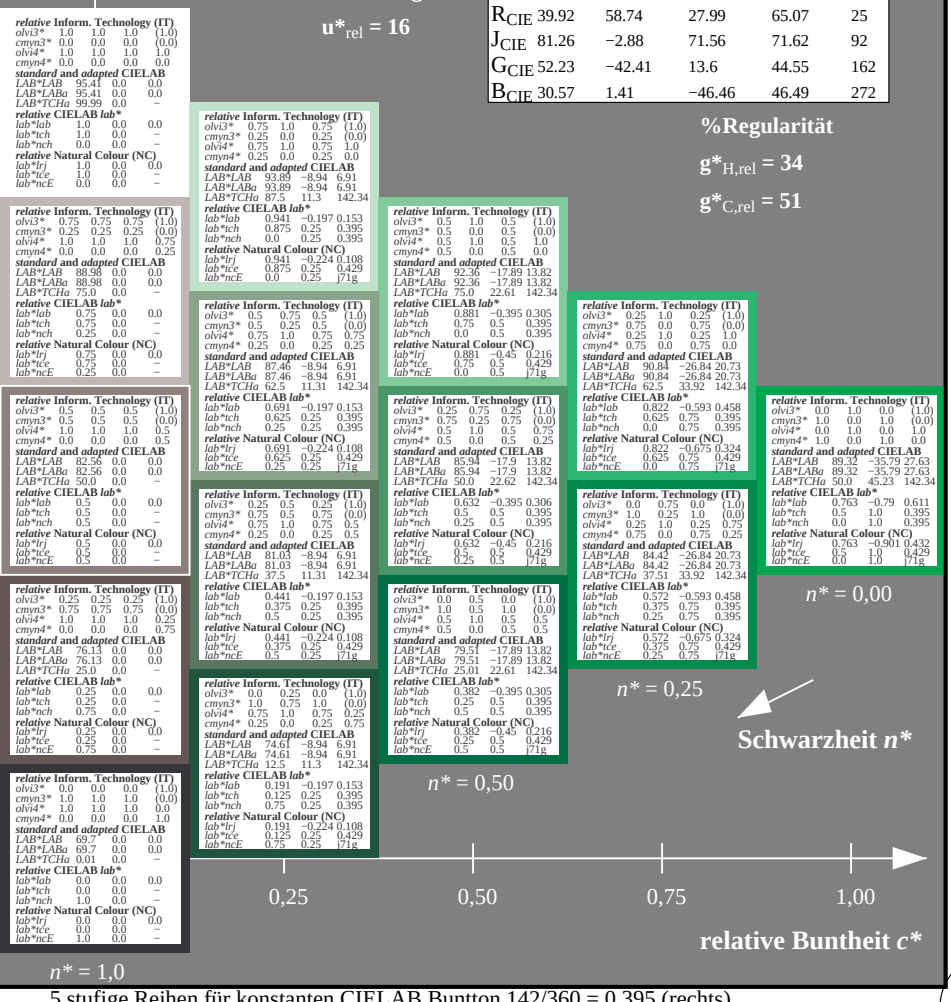
TLS70; adaptierte CIELAB-Daten

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



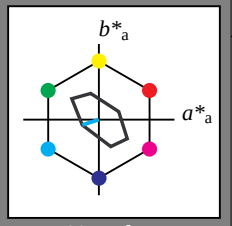
5 stufige Reihen für konstanten CIELAB Buntton 142/360 = 0.395 (rechts)

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 198/360 = 0.55**
lab*tch* und *lab*nch

D65: Buntton C
LCH*Ma: 91 23 198
olv*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

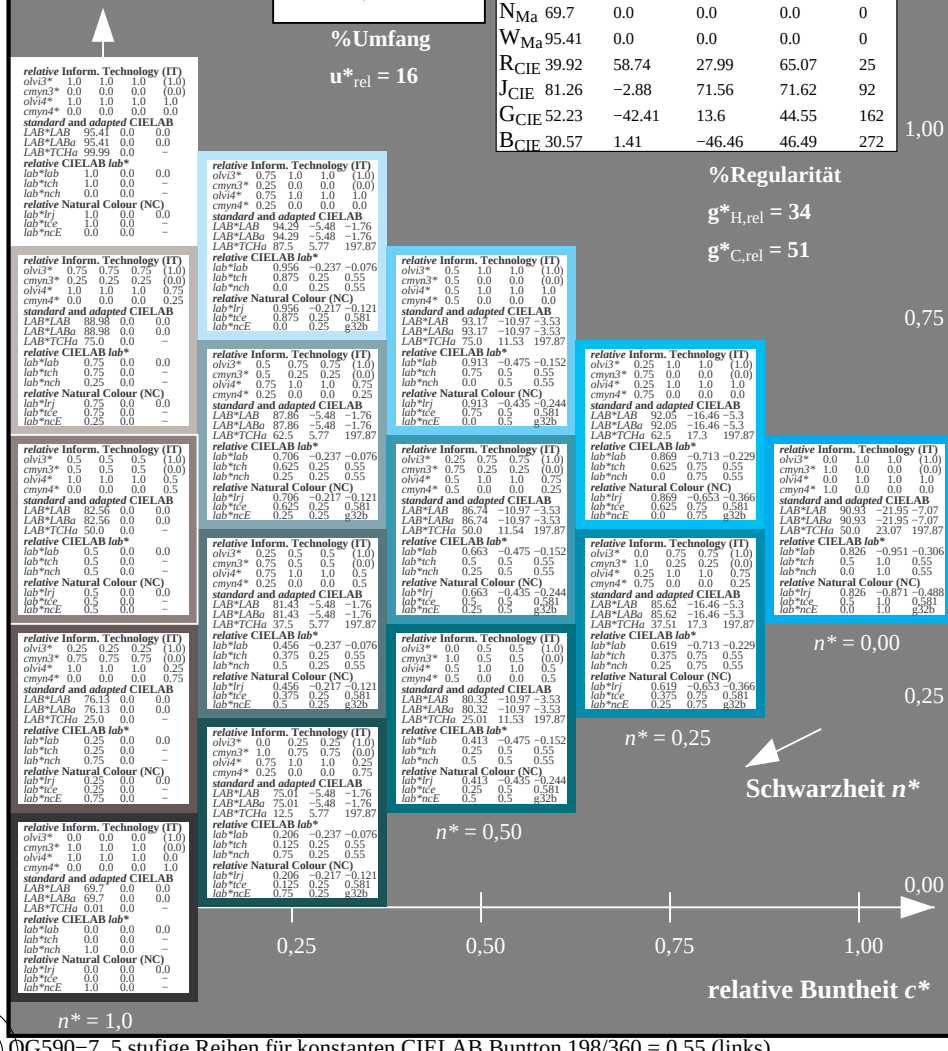
TLS70; adaptierte CIELAB-Daten

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



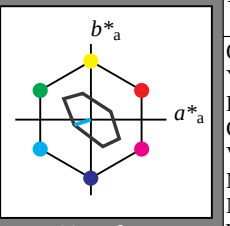
OG590−7, 5 stufige Reihen für konstanten CIELAB Buntton 198/360 = 0.55 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 198/360 = 0.55**
lab*tch* und *lab*nch

D65: Buntton C
LCH*Ma: 91 23 198
olv*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

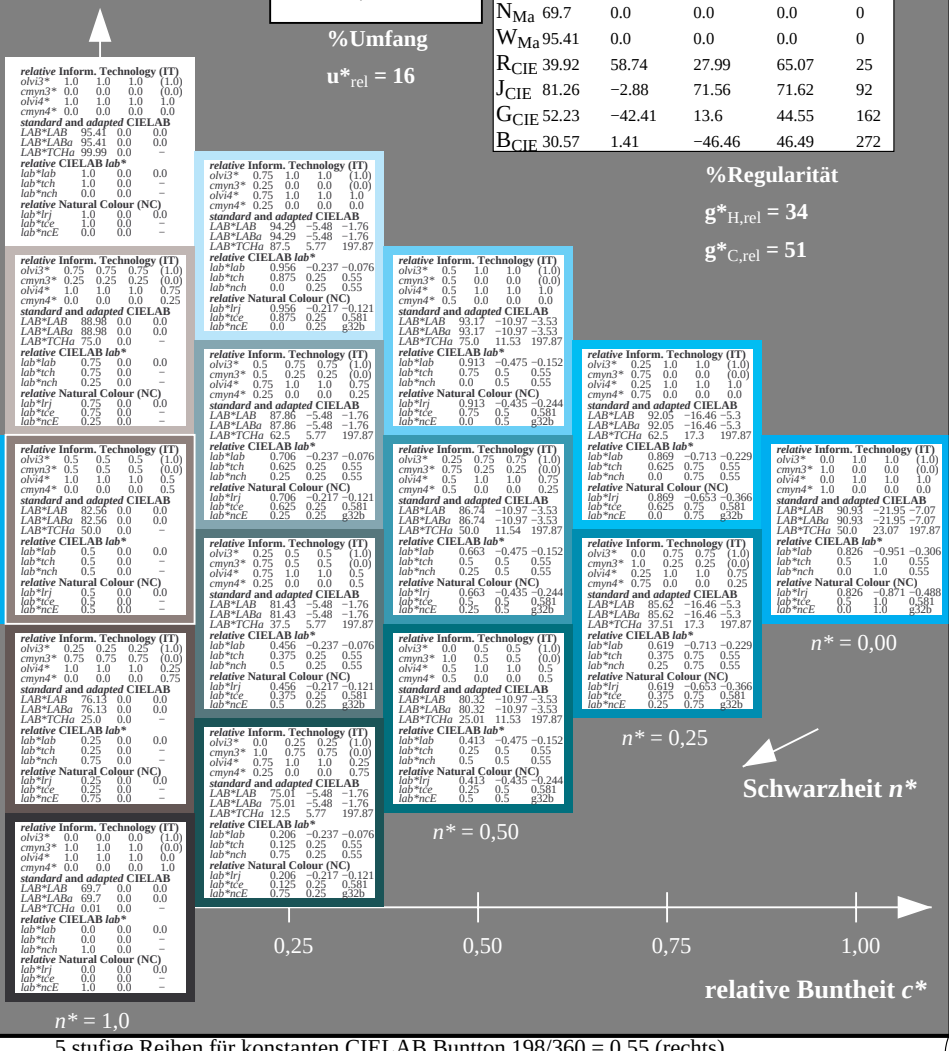
TLS70; adaptierte CIELAB-Daten

	L*=L*a	a*a	b*a	C*ab,a	h*ab,a
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



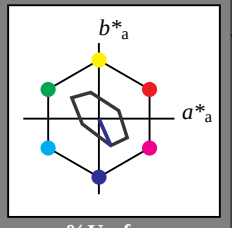
5 stufige Reihen für konstanten CIELAB Buntton 198/360 = 0.55 (rechts)

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 294/360 = 0.816***
lab*tch* und *lab*nch

D65: Buntton V
LCH*Ma: 72 39 294
olv*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

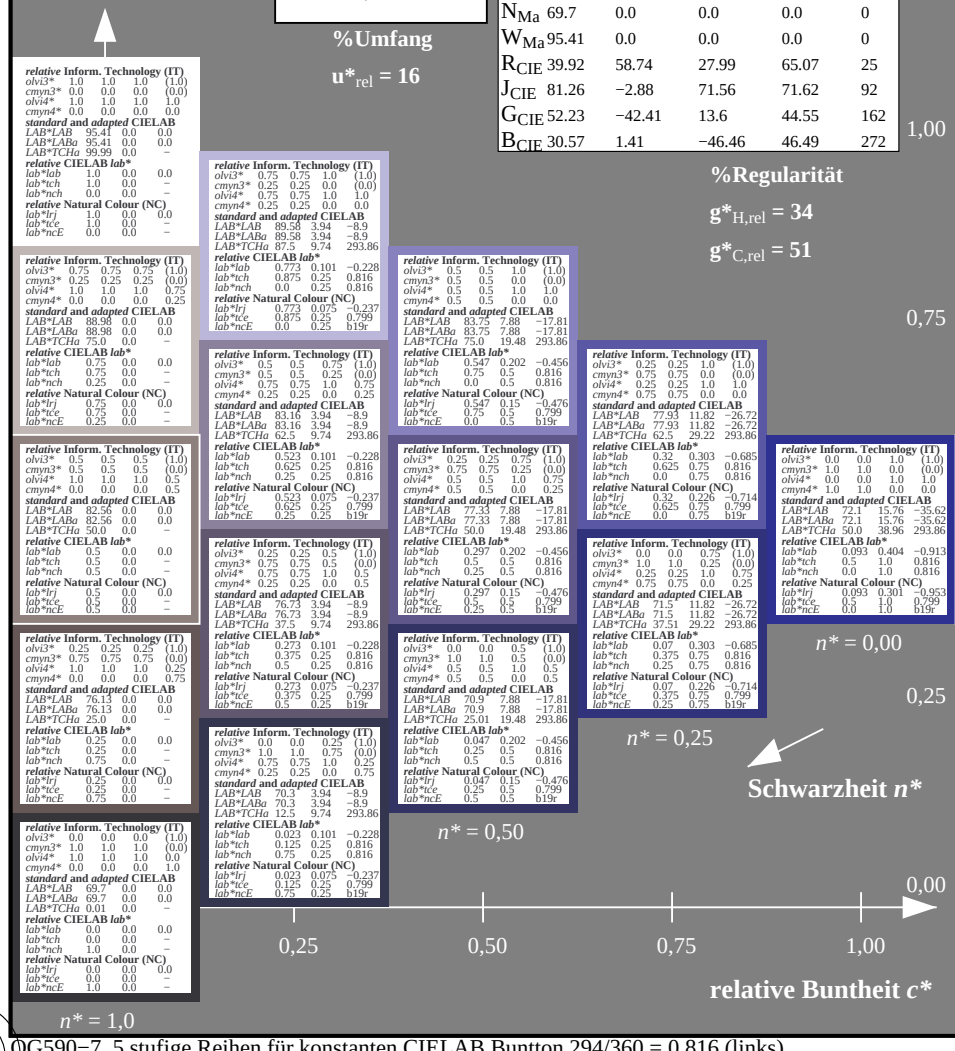
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



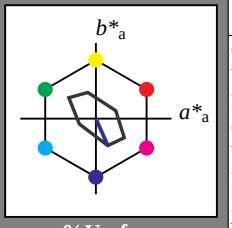
OG590−7, 5 stufige Reihen für konstanten CIELAB Buntton 294/360 = 0.816 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 294/360 = 0.816***
lab*tch* und *lab*nch

D65: Buntton V
LCH*Ma: 72 39 294
olv*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

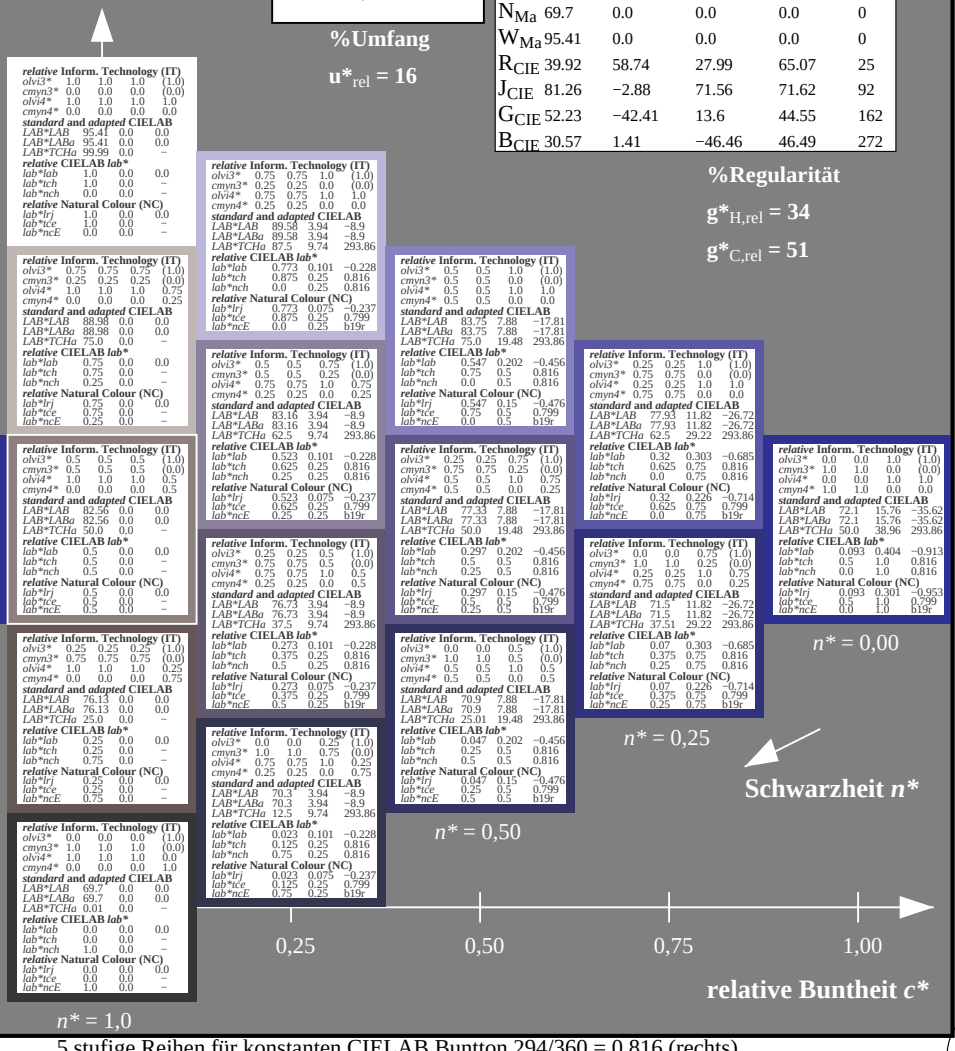
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



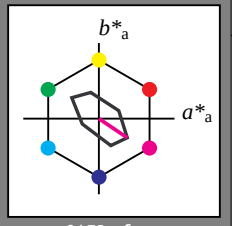
5 stufige Reihen für konstanten CIELAB Buntton 294/360 = 0.816 (rechts)

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 326/360 = 0.906***
lab*tch* und *lab*nch

D65: Buntton M
LCH*Ma: 79 45 326
olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51

1,00

0,75

0,25

0,00

Schwarzheit *n**

*n** = 0,00

*n** = 0,25

*n** = 0,50

*n** = 1,0

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

relative Buntheit *c**

relative Inform. Technology (IT)
*olvi3** 1.0 1.0 1.0 (1.0)
*cmyn3** 0.0 0.0 0.0 (0.0)
*olvi4** 1.0 1.0 1.0 1.0
*cmyn4** 0.0 0.0 0.0 0.0
***standard and adapted* CIELAB**
*LAB*LAB* 95.41 0.0 0.0
*LAB*LABa* 95.41 0.0 0.0
*LAB*TCHa* 99.99 0.0 –
relative CIELAB *lab**
*lab*lab* 1.0 0.0 0.0
*lab*tch* 1.0 0.0 –
*lab*nch* 0.0 0.0 –
relative Natural Colour (NC)
*lab*lrj* 1.0 0.0 0.0
*lab*tce* 1.0 0.0 –
*lab*ncE* 0.0 0.0 –

relative Inform. Technology (IT)
*olvi3** 0.75 0.75 0.75 (1.0)
*cmyn3** 0.25 0.25 0.25 (0.0)
*olvi4** 1.0 1.0 1.0 0.75
*cmyn4** 0.0 0.0 0.0 0.25
***standard and adapted* CIELAB**
*LAB*LAB* 88.98 0.0 0.0
*LAB*LABa* 88.98 0.0 0.0
*LAB*TCHa* 75.0 0.0 –
relative CIELAB *lab**
*lab*lab* 0.75 0.0 0.0
*lab*tch* 0.75 0.0 –
*lab*nch* 0.25 0.0 –
relative Natural Colour (NC)
*lab*lrj* 0.75 0.0 0.0
*lab*tce* 0.75 0.0 –
*lab*ncE* 0.25 0.0 –

relative Inform. Technology (IT)
*olvi3** 0.5 0.5 0.5 (1.0)
*cmyn3** 0.5 0.5 0.5 (0.0)
*olvi4** 1.0 1.0 1.0 0.5
*cmyn4** 0.0 0.0 0.0 0.5
***standard and adapted* CIELAB**
*LAB*LAB* 82.56 0.0 0.0
*LAB*LABa* 82.56 0.0 0.0
*LAB*TCHa* 50.0 0.0 –
relative CIELAB *lab**
*lab*lab* 0.5 0.0 0.0
*lab*tch* 0.5 0.0 –
*lab*nch* 0.5 0.0 –
relative Natural Colour (NC)
*lab*lrj* 0.5 0.0 0.0
*lab*tce* 0.5 0.0 –
*lab*ncE* 0.5 0.0 –

relative Inform. Technology (IT)
*olvi3** 0.25 0.25 0.25 (1.0)
*cmyn3** 0.75 0.75 0.75 (0.0)
*olvi4** 1.0 1.0 1.0 0.25
*cmyn4** 0.0 0.0 0.0 0.75
***standard and adapted* CIELAB**
*LAB*LAB* 76.13 0.0 0.0
*LAB*LABa* 76.13 0.0 0.0
*LAB*TCHa* 25.0 0.0 –
relative CIELAB *lab**
*lab*lab* 0.25 0.0 0.0
*lab*tch* 0.25 0.0 –
*lab*nch* 0.75 0.0 –
relative Natural Colour (NC)
*lab*lrj* 0.25 0.0 0.0
*lab*tce* 0.25 0.0 –
*lab*ncE* 0.75 0.0 –

relative Inform. Technology (IT)
*olvi3** 0.0 0.0 0.0 (1.0)
*cmyn3** 1.0 1.0 1.0 (0.0)
*olvi4** 1.0 1.0 1.0 0.0
*cmyn4** 0.0 0.0 0.0 1.0
***standard and adapted* CIELAB**
*LAB*LAB* 69.7 0.0 0.0
*LAB*LABa* 69.7 0.0 0.0
*LAB*TCHa* 0.01 0.0 –
relative CIELAB *lab**
*lab*lab* 0.0 0.0 0.0
*lab*tch* 0.0 0.0 –
*lab*nch* 1.0 0.0 –
relative Natural Colour (NC)
*lab*lrj* 0.0 0.0 0.0
*lab*tce* 0.0 0.0 –
*lab*ncE* 1.0 0.0 –

relative Inform. Technology (IT)
*olvi3** 1.0 0.75 1.0 (1.0)
*cmyn3** 0.0 0.25 0.0 (0.0)
*olvi4** 1.0 0.75 1.0 1.0
*cmyn4** 0.0 0.25 0.0 0.0
***standard and adapted* CIELAB**
*LAB*LAB* 91.18 9.38 −6.3
*LAB*LABa* 91.18 9.38 −6.3
*LAB*TCHa* 87.5 11.3 326.07
relative CIELAB *lab**
*lab*lab* 0.836 0.207 −0.138
*lab*tch* 0.875 0.25 0.906
*lab*nch* 0.0 0.25 0.906
relative Natural Colour (NC)
*lab*lrj* 0.836 0.17 −0.182
*lab*tce* 0.875 0.25 0.869
*lab*ncE* 0.0 0.25 b47r

relative Inform. Technology (IT)
*olvi3** 0.75 0.5 0.75 (1.0)
*cmyn3** 0.25 0.5 0.25 (0.0)
*olvi4** 1.0 0.75 1.0 0.75
*cmyn4** 0.0 0.25 0.0 0.25
***standard and adapted* CIELAB**
*LAB*LAB* 84.76 9.38 −6.3
*LAB*LABa* 84.76 9.38 −6.3
*LAB*TCHa* 62.5 11.3 326.07
relative CIELAB *lab**
*lab*lab* 0.586 0.207 −0.139
*lab*tch* 0.625 0.25 0.906
*lab*nch* 0.25 0.25 0.906
relative Natural Colour (NC)
*lab*lrj* 0.586 0.17 −0.182
*lab*tce* 0.625 0.25 0.869
*lab*ncE* 0.25 0.25 b47r

relative Inform. Technology (IT)
*olvi3** 0.5 0.25 0.5 (1.0)
*cmyn3** 0.5 0.75 0.5 (0.0)
*olvi4** 1.0 0.75 1.0 0.5
*cmyn4** 0.0 0.25 0.0 0.5
***standard and adapted* CIELAB**
*LAB*LAB* 78.33 9.38 −6.3
*LAB*LABa* 78.33 9.38 −6.3
*LAB*TCHa* 37.5 11.3 326.07
relative CIELAB *lab**
*lab*lab* 0.336 0.207 −0.139
*lab*tch* 0.375 0.25 0.906
*lab*nch* 0.5 0.25 0.906
relative Natural Colour (NC)
*lab*lrj* 0.336 0.17 −0.182
*lab*tce* 0.375 0.25 0.869
*lab*ncE* 0.5 0.25 b47r

relative Inform. Technology (IT)
*olvi3** 0.25 0.0 0.25 (1.0)
*cmyn3** 0.75 1.0 0.75 (0.0)
*olvi4** 1.0 0.75 1.0 0.25
*cmyn4** 0.0 0.25 0.0 0.75
***standard and adapted* CIELAB**
*LAB*LAB* 71.9 9.38 −6.3
*LAB*LABa* 71.9 9.38 −6.3
*LAB*TCHa* 12.5 11.3 326.07
relative CIELAB *lab**
*lab*lab* 0.086 0.207 −0.138
*lab*tch* 0.125 0.25 0.906
*lab*nch* 0.75 0.25 0.906
relative Natural Colour (NC)
*lab*lrj* 0.086 0.17 −0.182
*lab*tce* 0.125 0.25 0.869
*lab*ncE* 0.75 0.25 b47r

relative Inform. Technology (IT)
*olvi3** 1.0 0.5 1.0 (1.0)
*cmyn3** 0.0 0.5 0.0 (0.0)
*olvi4** 1.0 0.5 1.0 1.0
*cmyn4** 0.0 0.5 0.0 0.0
***standard and adapted* CIELAB**
*LAB*LAB* 86.95 18.76 −12.61
*LAB*LABa* 86.95 18.76 −12.61
*LAB*TCHa* 75.0 22.61 326.07
relative CIELAB *lab**
*lab*lab* 0.671 0.415 −0.278
*lab*tch* 0.75 0.5 0.906
*lab*nch* 0.0 0.5 0.906
relative Natural Colour (NC)
*lab*lrj* 0.671 0.341 −0.365
*lab*tce* 0.75 0.5 0.869
*lab*ncE* 0.0 0.5 b47r

relative Inform. Technology (IT)
*olvi3** 0.75 0.5 0.75 (1.0)
*cmyn3** 0.25 0.75 0.25 (0.0)
*olvi4** 1.0 0.5 1.0 0.75
*cmyn4** 0.0 0.5 0.0 0.25
***standard and adapted* CIELAB**
*LAB*LAB* 80.53 18.76 −12.61
*LAB*LABa* 80.53 18.76 −12.61
*LAB*TCHa* 50.0 22.61 326.07
relative CIELAB *lab**
*lab*lab* 0.421 0.415 −0.278
*lab*tch* 0.5 0.5 0.906
*lab*nch* 0.25 0.5 0.906
relative Natural Colour (NC)
*lab*lrj* 0.421 0.341 −0.365
*lab*tce* 0.5 0.5 0.869
*lab*ncE* 0.25 0.5 b47r

relative Inform. Technology (IT)
*olvi3** 0.5 0.0 0.5 (1.0)
*cmyn3** 0.5 1.0 0.5 (0.0)
*olvi4** 1.0 0.5 1.0 0.5
*cmyn4** 0.0 0.5 0.0 0.5
***standard and adapted* CIELAB**
*LAB*LAB* 74.1 18.76 −12.61
*LAB*LABa* 74.1 18.76 −12.61
*LAB*TCHa* 25.01 22.61 326.07
relative CIELAB *lab**
*lab*lab* 0.171 0.415 −0.278
*lab*tch* 0.25 0.5 0.906
*lab*nch* 0.5 0.5 0.906
relative Natural Colour (NC)
*lab*lrj* 0.171 0.341 −0.365
*lab*tce* 0.25 0.5 0.869
*lab*ncE* 0.5 0.5 b47r

relative Inform. Technology (IT)
*olvi3** 1.0 0.0 1.0 (1.0)
*cmyn3** 0.0 1.0 0.0 (0.0)
*olvi4** 1.0 0.0 1.0 1.0
*cmyn4** 0.0 1.0 0.0 0.0
***standard and adapted* CIELAB**
*LAB*LAB* 78.5 37.51 −25.22
*LAB*LABa* 78.5 37.51 −25.22
*LAB*TCHa* 50.0 45.21 326.07
relative CIELAB *lab**
*lab*lab* 0.342 0.83 −0.557
*lab*tch* 0.5 1.0 0.906
*lab*nch* 0.0 1.0 0.906
relative Natural Colour (NC)
*lab*lrj* 0.342 0.682 −0.73
*lab*tce* 0.5 1.0 0.869
*lab*ncE* 0.0 1.0 b47r

relative Inform. Technology (IT)
*olvi3** 0.75 0.0 0.75 (1.0)
*cmyn3** 0.25 1.0 0.25 (0.0)
*olvi4** 1.0 0.25 1.0 0.75
*cmyn4** 0.0 0.75 0.0 0.25
***standard and adapted* CIELAB**
*LAB*LAB* 76.3 28.14 −18.92
*LAB*LABa* 76.3 28.14 −18.92
*LAB*TCHa* 37.51 33.91 326.07
relative CIELAB *lab**
*lab*lab* 0.257 0.622 −0.418
*lab*tch* 0.375 0.75 0.906
*lab*nch* 0.25 0.75 0.906
relative Natural Colour (NC)
*lab*lrj* 0.257 0.511 −0.548
*lab*tce* 0.375 0.75 0.869
*lab*ncE* 0.25 0.75 b47r

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 326/360 = 0.906***
lab*tch* und *lab*nch

D65: Buntton M
LCH*Ma: 79 45 326
olv*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit *t**

%Umfang

u*rel = 16

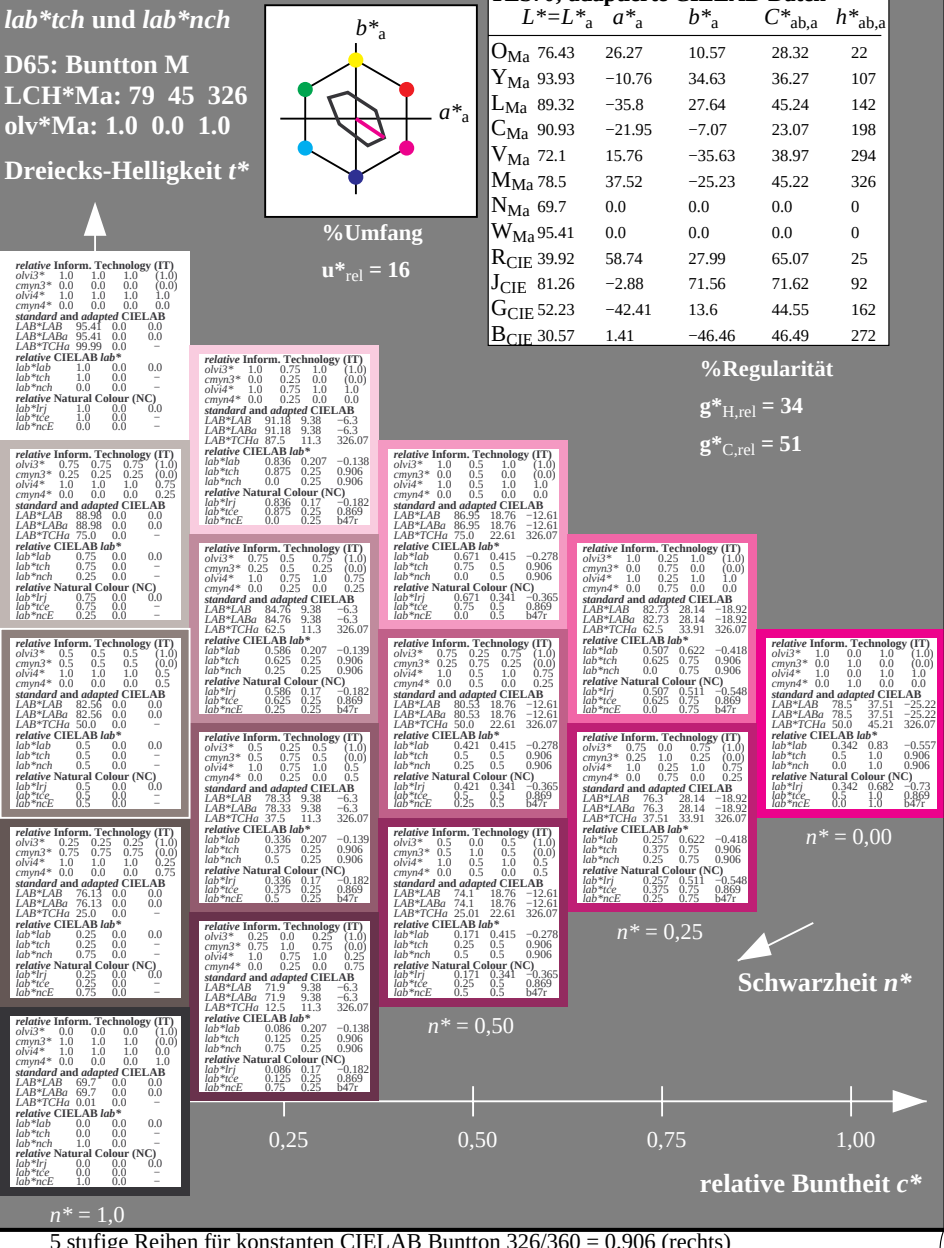
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



OG590−7, 5 stufige Reihen für konstanten CIELAB Buntton 326/360 = 0.906 (links)

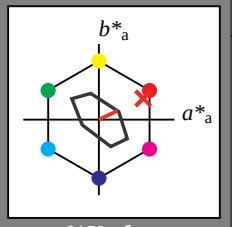
5 stufige Reihen für konstanten CIELAB Buntton 326/360 = 0.906 (rechts)

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 25/360 = 0.071**
lab*tch* und *lab*nch

D65: Buntton R
LCH*Ma: 77 27 25
olv*Ma: 1.0 0.05 0.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

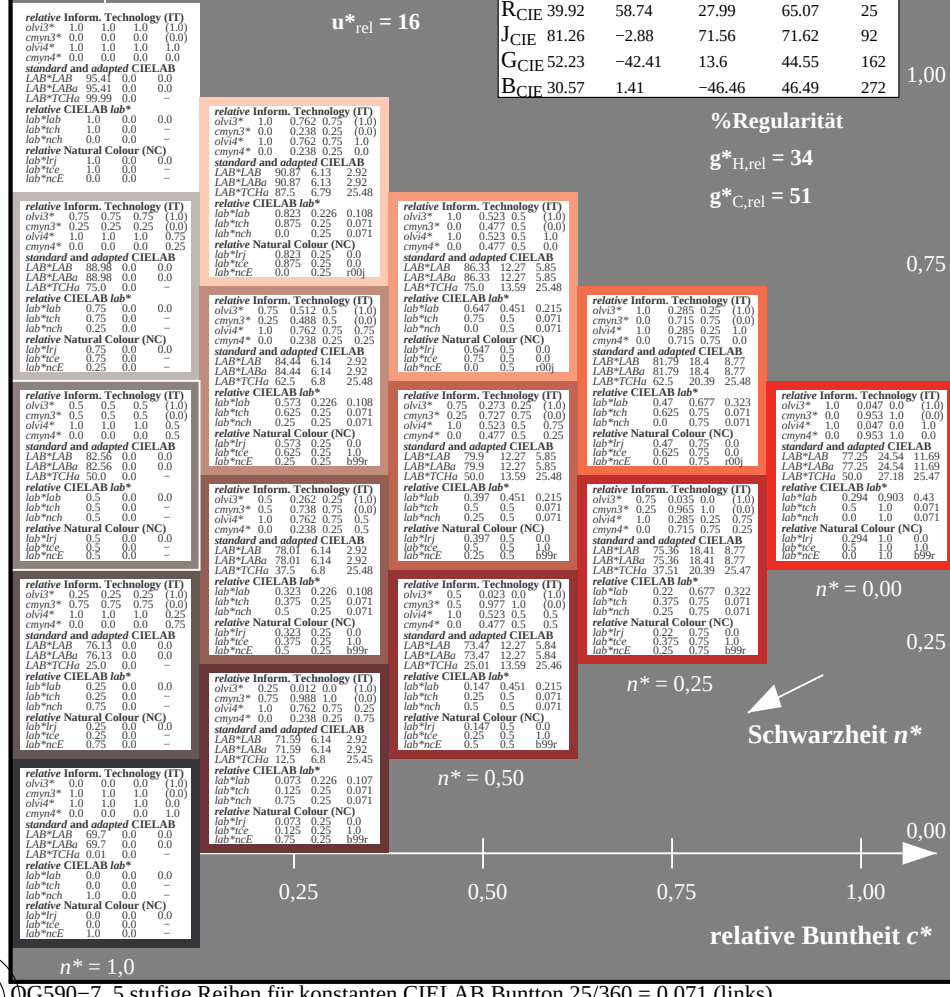
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



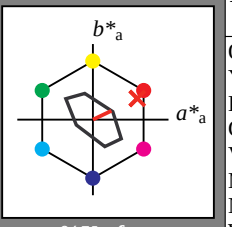
OG590−7, 5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 25/360 = 0.071**
lab*tch* und *lab*nch

D65: Buntton R
LCH*Ma: 77 27 25
olv*Ma: 1.0 0.05 0.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

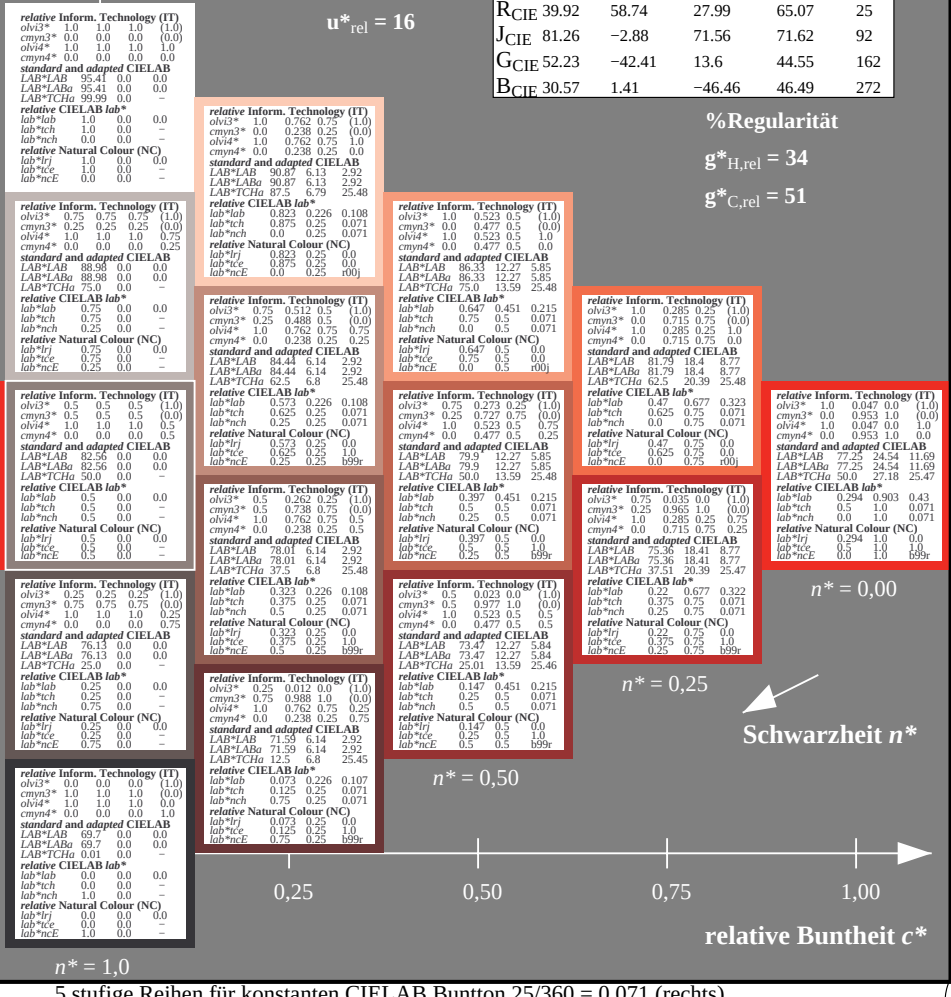
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



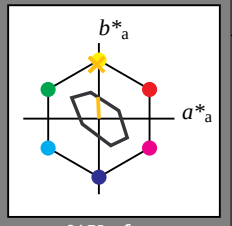
5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (rechts)

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 92/360 = 0.256**
lab*tch* und *lab*nch

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

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

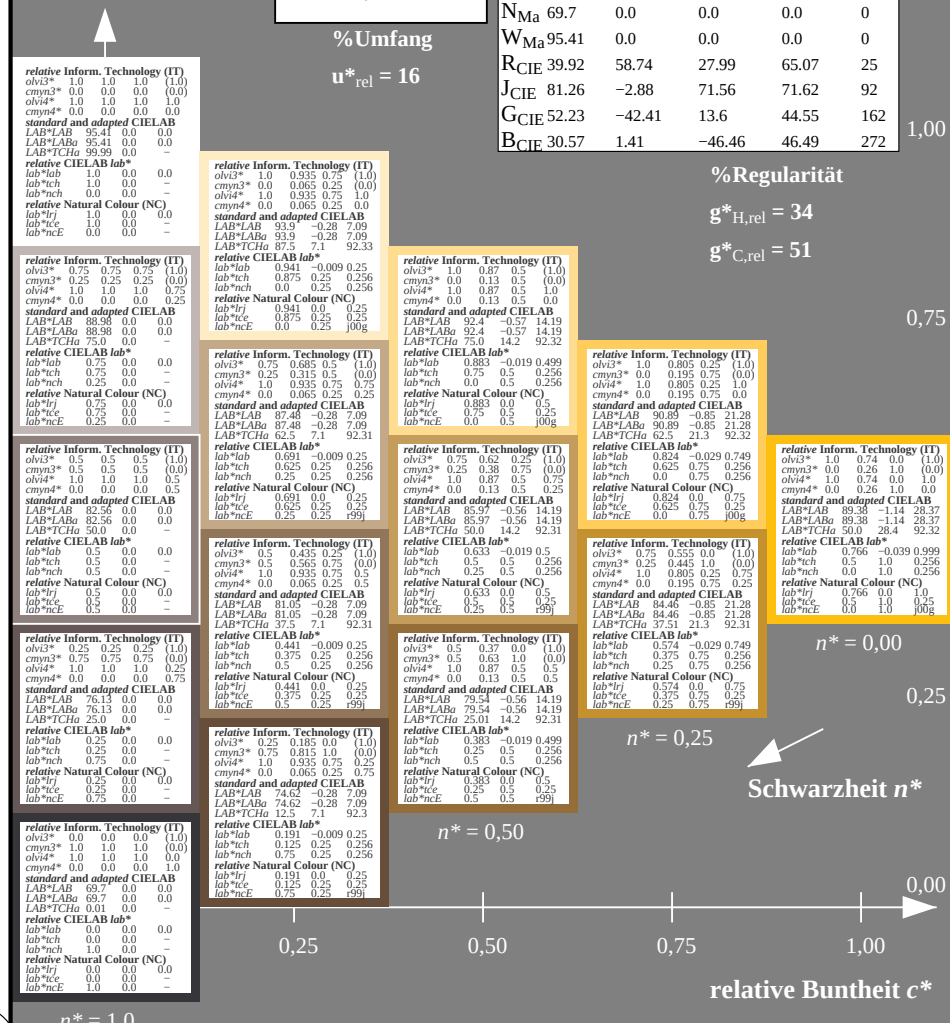
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



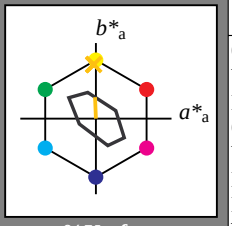
OG590−7, 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 92/360 = 0.256**
lab*tch* und *lab*nch

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

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

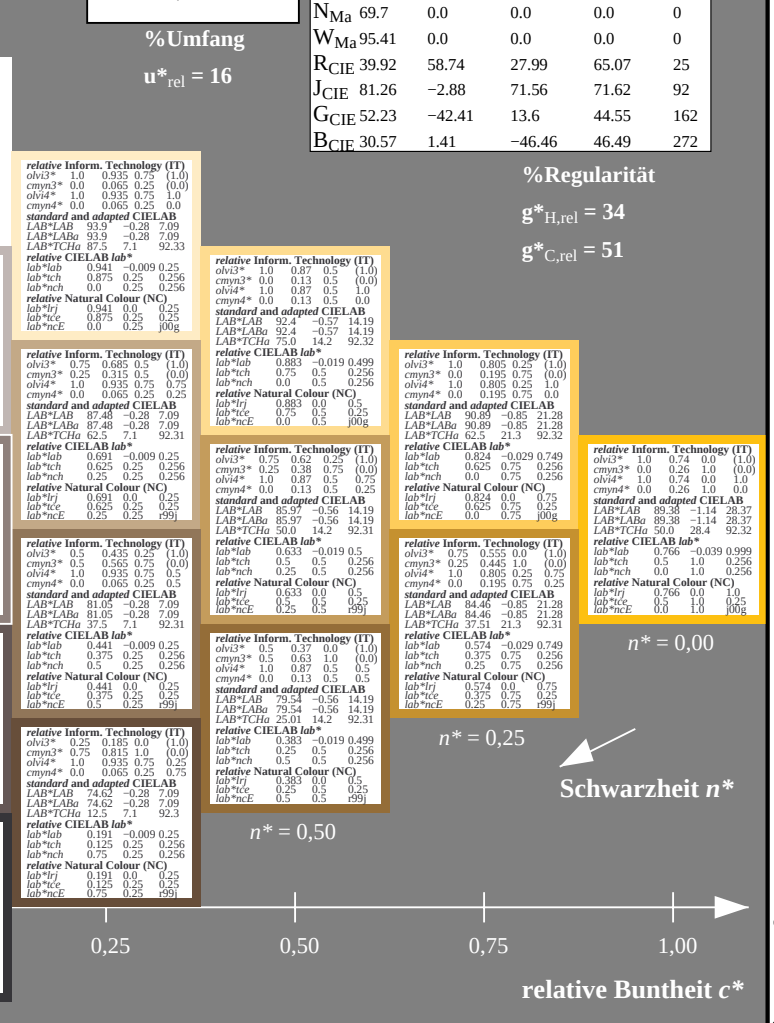
TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



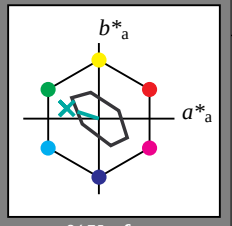
5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (rechts)

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 162/360 = 0.451***
lab*tch* und *lab*nch

D65: Buntton G
LCH*Ma: 90 30 162
olv*Ma: 0.0 1.0 0.53

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
C_{Ma}	90.93	−21.95	−7.07	23.07	198
V_{Ma}	72.1	15.76	−35.63	38.97	294
M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51

1,00

0,75

0,25

0,00

Schwarzheit *n**

relative Buntheit *c**

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

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

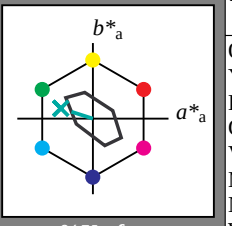
OG590−7, 5 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 162/360 = 0.451***
lab*tch* und *lab*nch

D65: Buntton G
LCH*Ma: 90 30 162
olv*Ma: 0.0 1.0 0.53

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
O_{Ma}	76.43	26.27	10.57	28.32	22
Y_{Ma}	93.93	−10.76	34.63	36.27	107
L_{Ma}	89.32	−35.8	27.64	45.24	142
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M_{Ma}	78.5	37.52	−25.23	45.22	326
N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
R_{CIE}	39.92	58.74	27.99	65.07	25
J_{CIE}	81.26	−2.88	71.56	71.62	92
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51

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

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

Schwarzheit *n**

relative Buntheit *c**

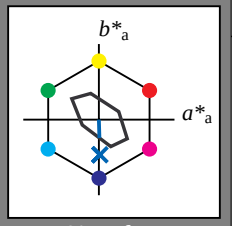
5 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (rechts)

Eingabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 272/360 = 0.755**
lab*tch* und *lab*nch

D65: Buntton B
LCH*Ma: 80 24 272
olv*Ma: 0.0 0.4 1.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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L_{Ma}	89.32	−35.8	27.64	45.24	142
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W_{Ma}	95.41	0.0	0.0	0.0	0
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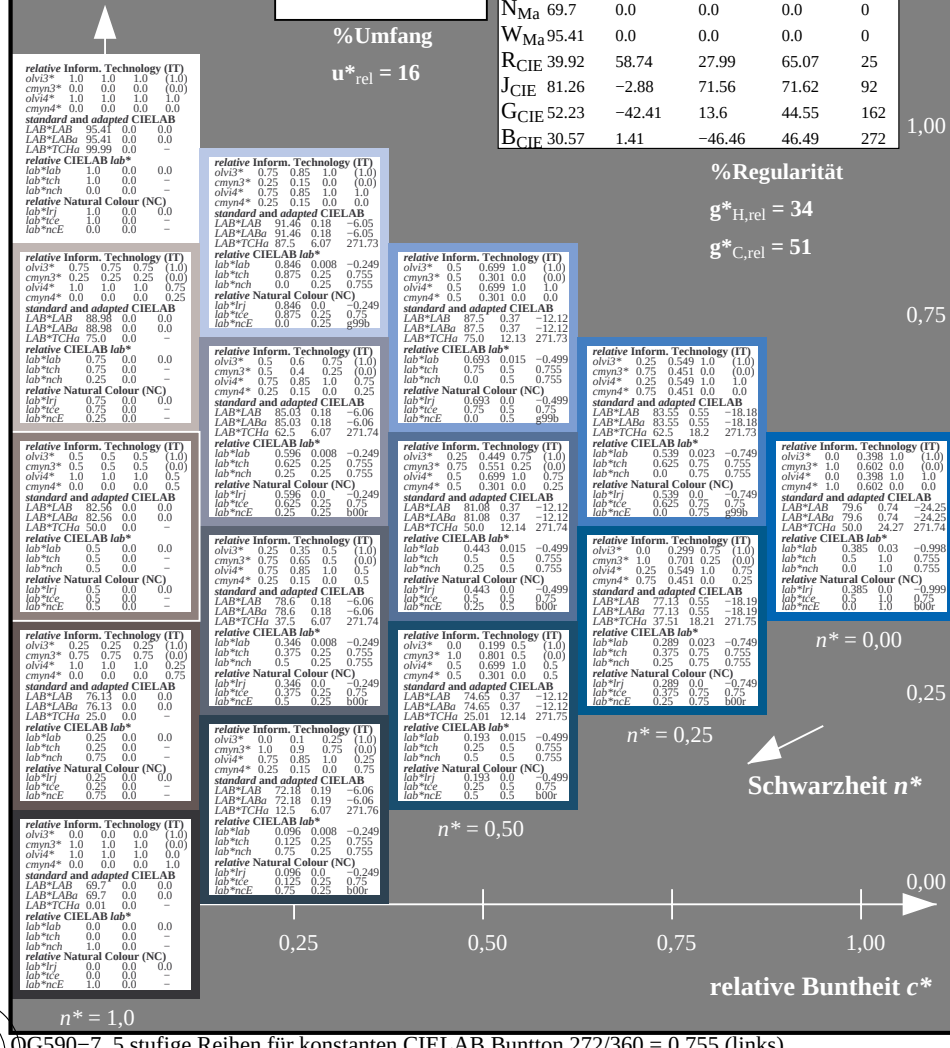
G_{CIE}	52.23	−42.41	13.6	44.55	162
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



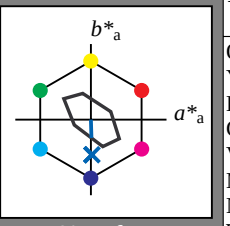
OG590−7, 5 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)

Ausgabe: Farbmetrisches Fernseh-Licht-System TLS70

für Buntton *h = lab*h = 272/360 = 0.755**
lab*tch* und *lab*nch

D65: Buntton B
LCH*Ma: 80 24 272
olv*Ma: 0.0 0.4 1.0

Dreiecks-Helligkeit *t**



%Umfang

u*rel = 16

TLS70; adaptierte CIELAB-Daten

	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
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N_{Ma}	69.7	0.0	0.0	0.0	0
W_{Ma}	95.41	0.0	0.0	0.0	0
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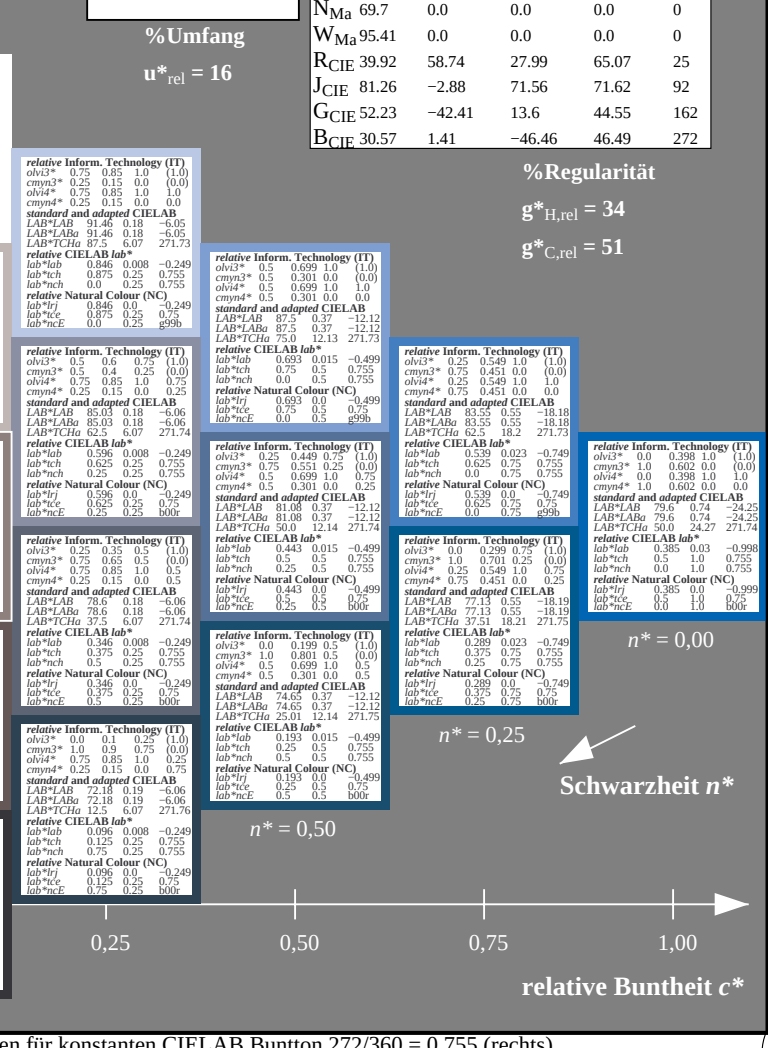
B_{CIE}	30.57	1.41	−46.46	46.49	272

%Regularität

g*H,rel = 34

g*C,rel = 51



5 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (rechts)