

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 22/360 = 0.061$

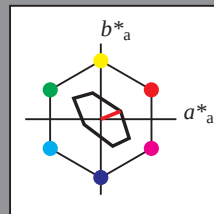
$lab^*tch$  und  $lab^*nch$

D65: Buntton O

LCH\*Ma: 76 28 22

olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



TLS70; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

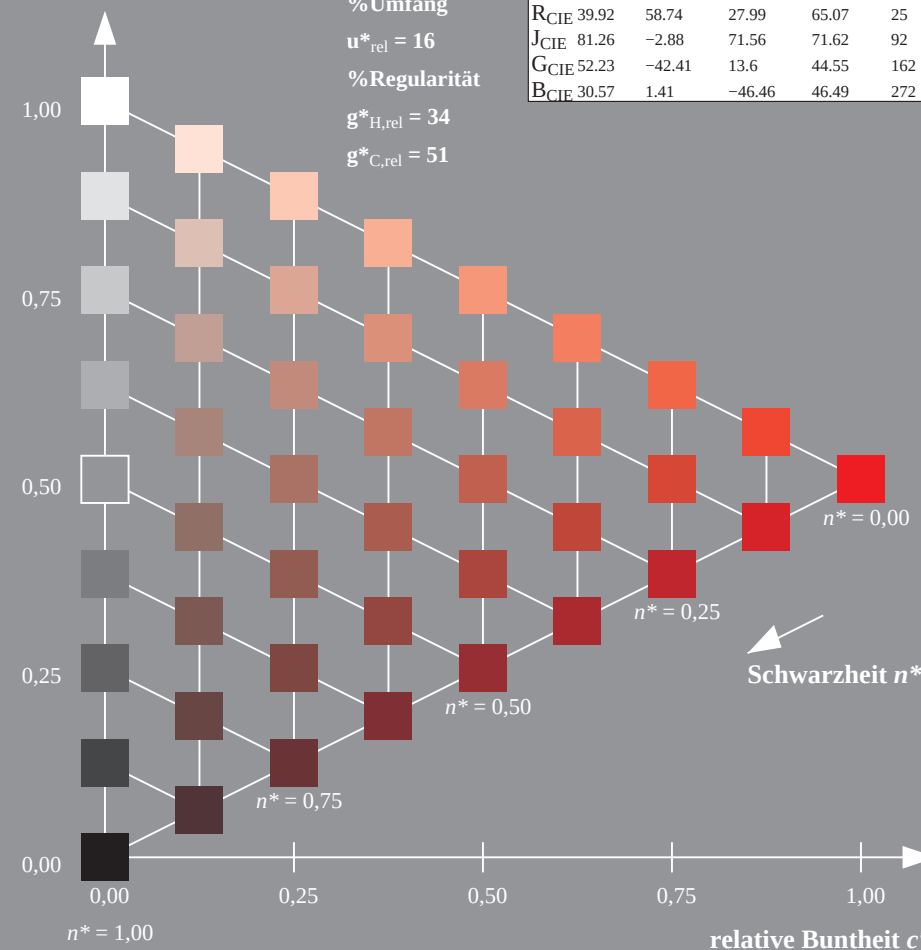
%Umfang

$u^*_{rel} = 16$

%Regularität

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

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



OG780-7, 9stufige Reihen für konstanten CIELAB Buntton 22/360 = 0.061 (links)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00 input:  $cmY0^* setcmykcolor$

D65: 9 und 16stufige Farbreihen für 10 Bunttöne

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 40/360 = 0.111$

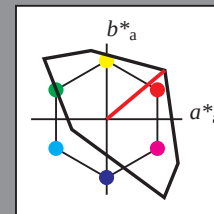
$lab^*tch$  und  $lab^*nch$

D65: Buntton O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



TLS00; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

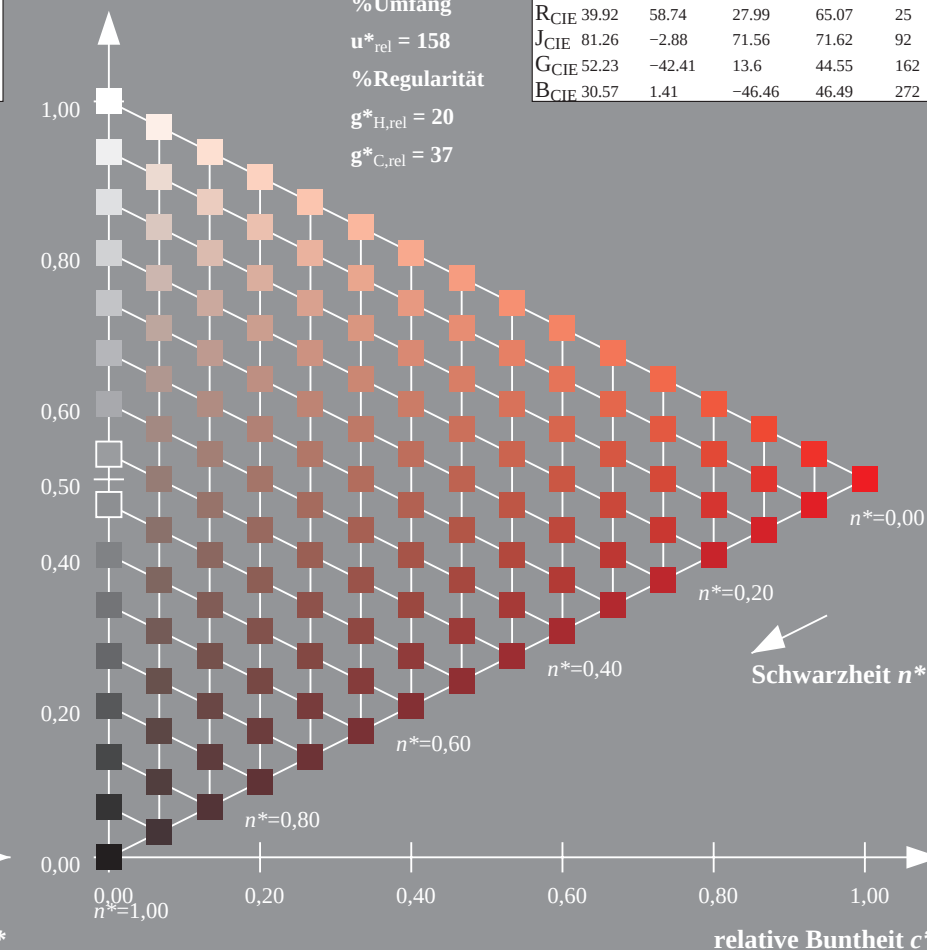
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



16stufige Reihen für konstanten CIELAB Buntton 40/360 = 0.111 (rechts)

output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 107/360 = 0.298$

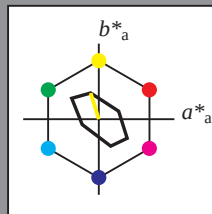
$lab^*tch$  und  $lab^*nch$

D65: Buntton Y

LCH\*Ma: 94 36 107

olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



TLS70; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

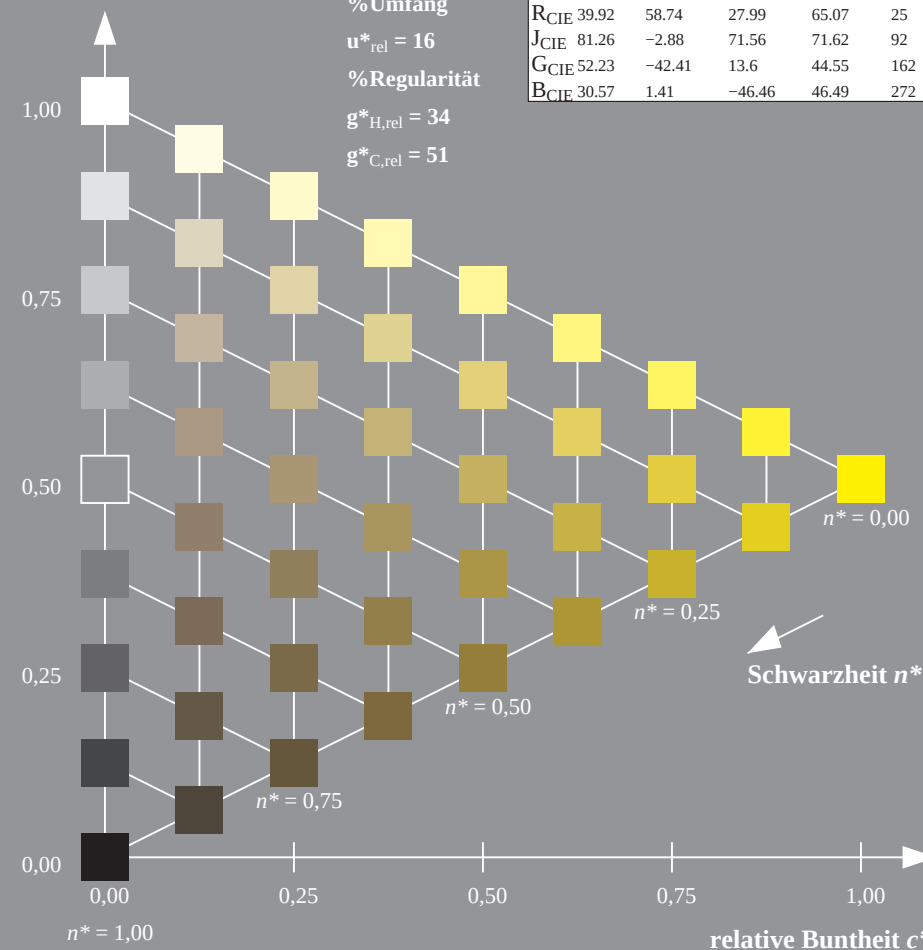
%Umfang

$u^*_{rel} = 16$

%Regularität

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

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



Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 103/360 = 0.286$

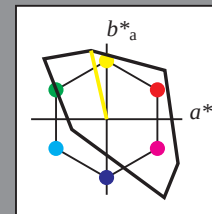
$lab^*tch$  und  $lab^*nch$

D65: Buntton Y

LCH\*Ma: 93 93 103

olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



TLS00; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

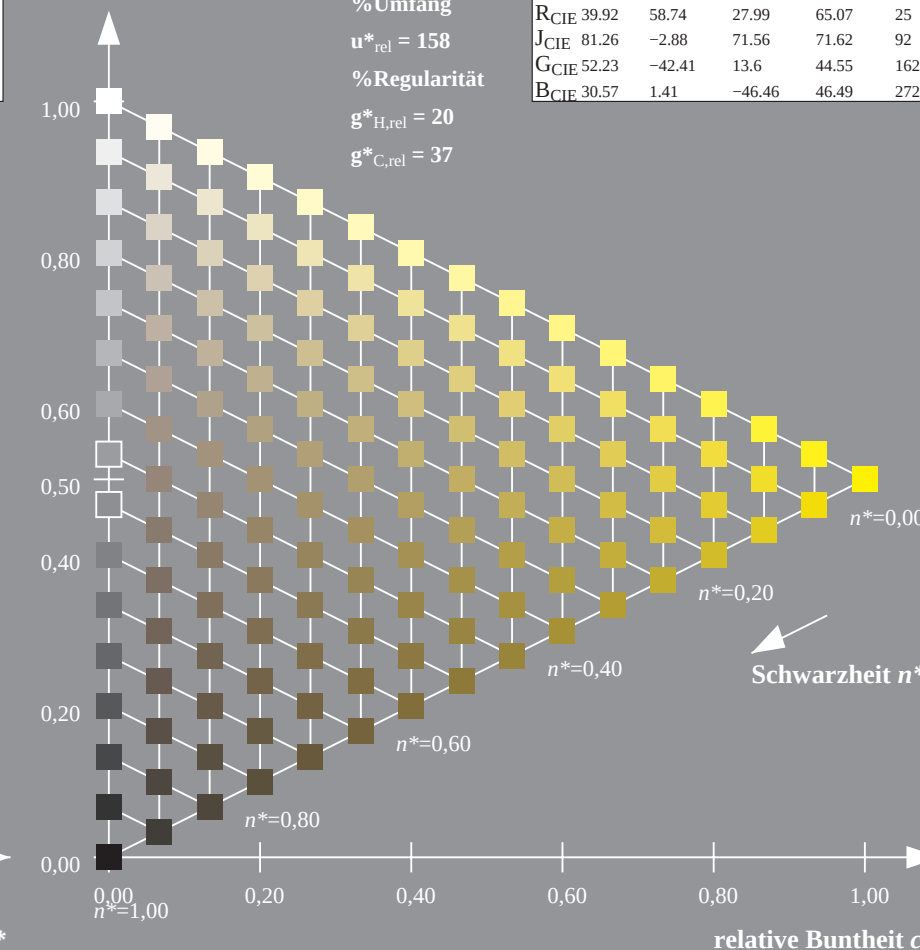
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



OG780-7, 9stufige Reihen für konstanten CIELAB Buntton 107/360 = 0.298 (links)

16stufige Reihen für konstanten CIELAB Buntton 103/360 = 0.286 (rechts)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00 input:  $cmY0^* setcmykcolor$

D65: 9 und 16stufige Farbreihen für 10 Bunttöne

output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 142/360 = 0.395$

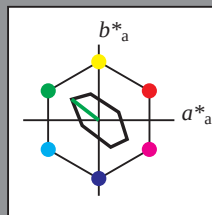
$lab^*tch$  und  $lab^*nch$

D65: Buntton L

LCH\*Ma: 89 45 142

olv\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



TLS70; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

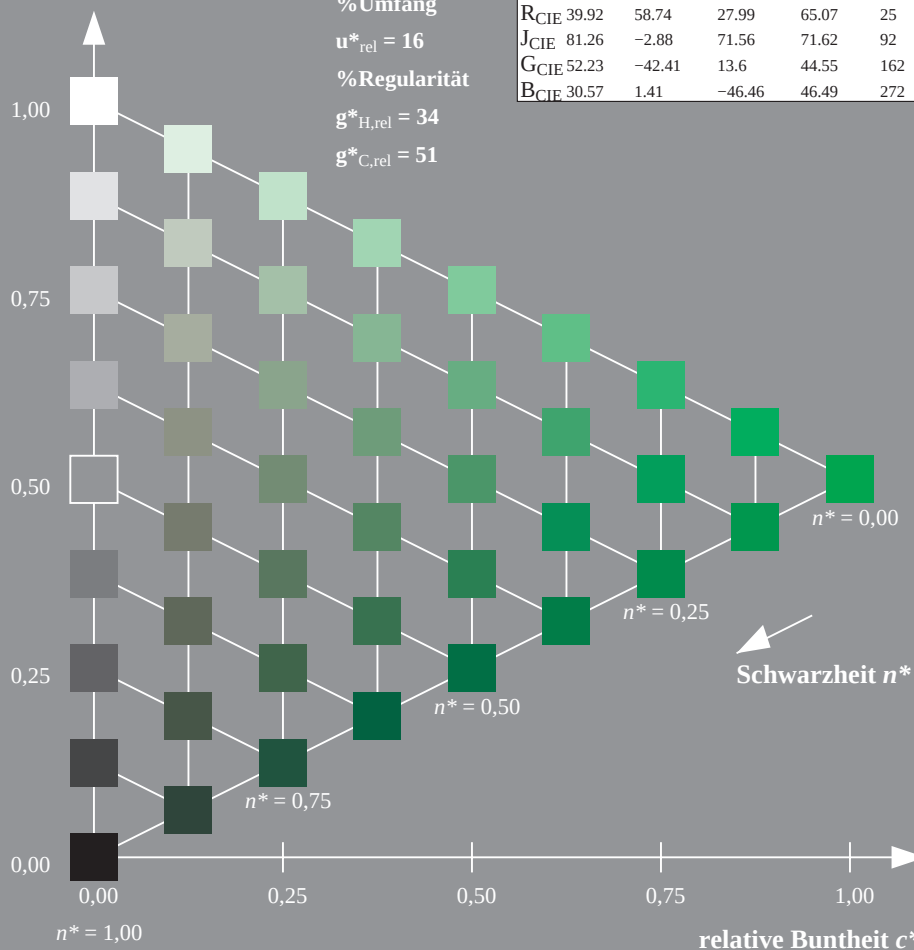
%Umfang

$u^*_{rel} = 16$

%Regularität

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

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



OG780-7, 9stufige Reihen für konstanten CIELAB Buntton 142/360 = 0.395 (links)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00  
D65: 9 und 16stufige Farbreihen für 10 Bunttöne

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 136/360 = 0.378$

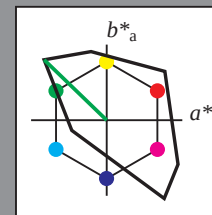
$lab^*tch$  und  $lab^*nch$

D65: Buntton L

LCH\*Ma: 84 115 136

olv\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



TLS00; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

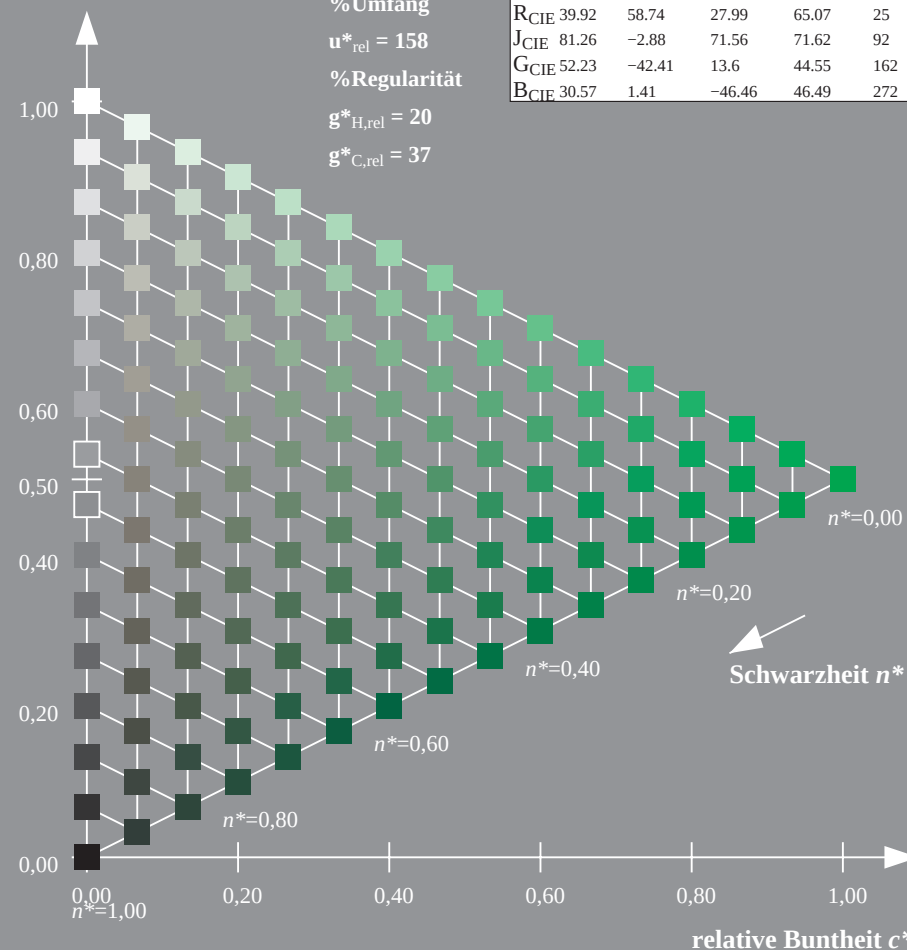
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



16stufige Reihen für konstanten CIELAB Buntton 136/360 = 0.378 (rechts)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00  
D65: 9 und 16stufige Farbreihen für 10 Bunttöne  
input:  $cmY0^* setcmykcolor$   
output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 198/360 = 0.55$

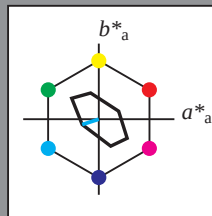
$lab^*tch$  und  $lab^*nch$

D65: Buntton C

LCH\*Ma: 91 23 198

olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



TLS70; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

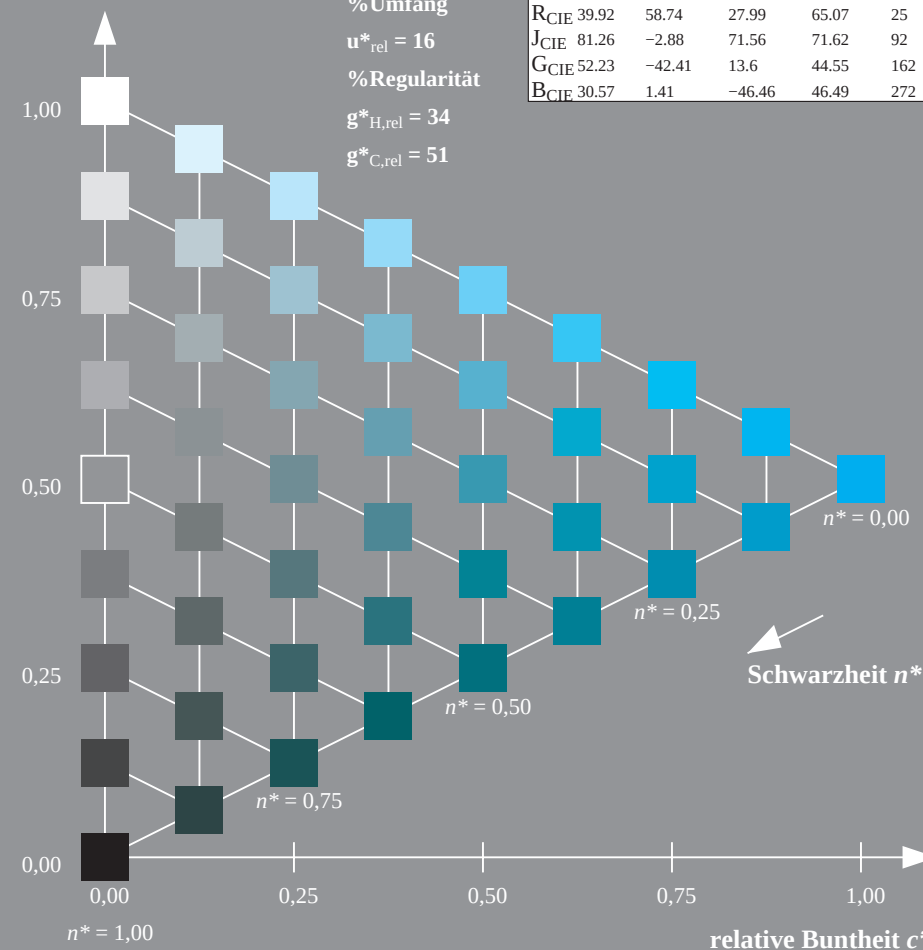
%Umfang

$u^*_{rel} = 16$

%Regularität

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

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



OG780-7, 9stufige Reihen für konstanten CIELAB Buntton 198/360 = 0.55 (links)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00 input:  $cmY0^* setcmykcolor$

D65: 9 und 16stufige Farbreihen für 10 Bunttöne

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 196/360 = 0.545$

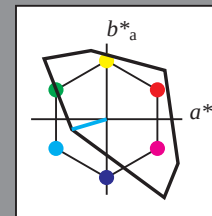
$lab^*tch$  und  $lab^*nch$

D65: Buntton C

LCH\*Ma: 87 48 196

olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



TLS00; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

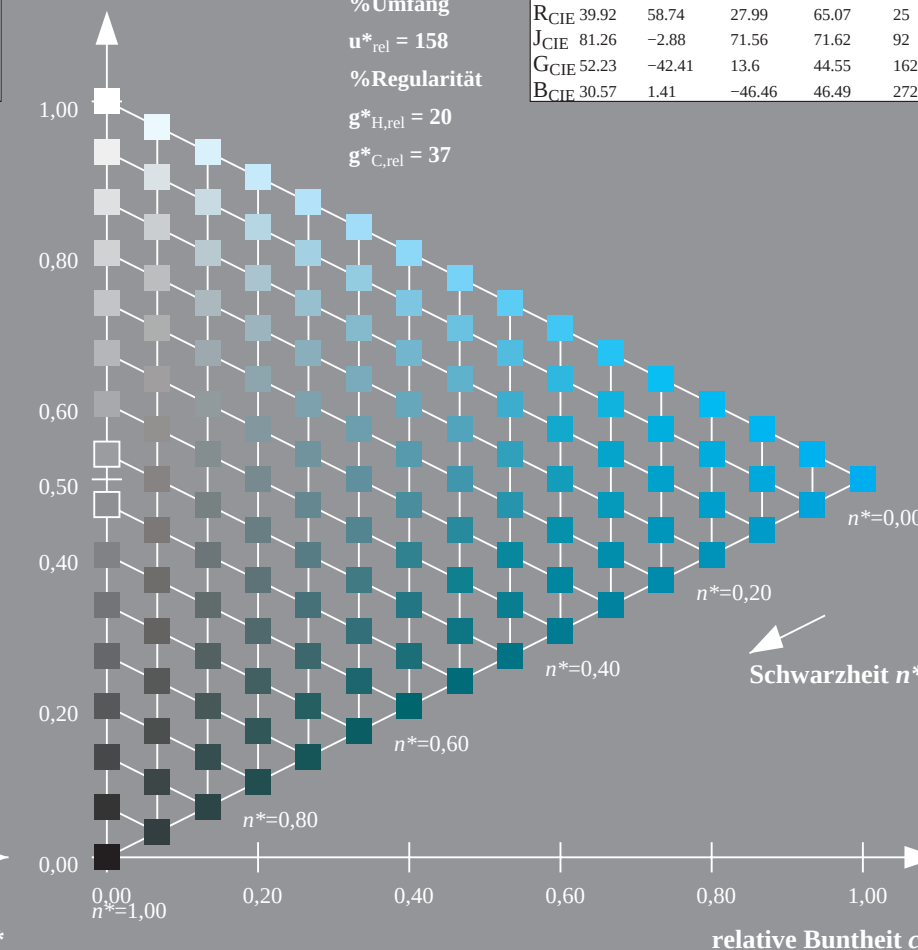
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



16stufige Reihen für konstanten CIELAB Buntton 196/360 = 0.545 (rechts)

output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 294/360 = 0.816$

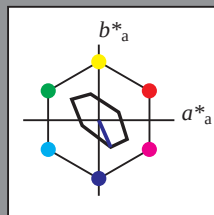
$lab^*tch$  und  $lab^*nch$

D65: Buntton V

LCH\*Ma: 72 39 294

olv\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



TLS70; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

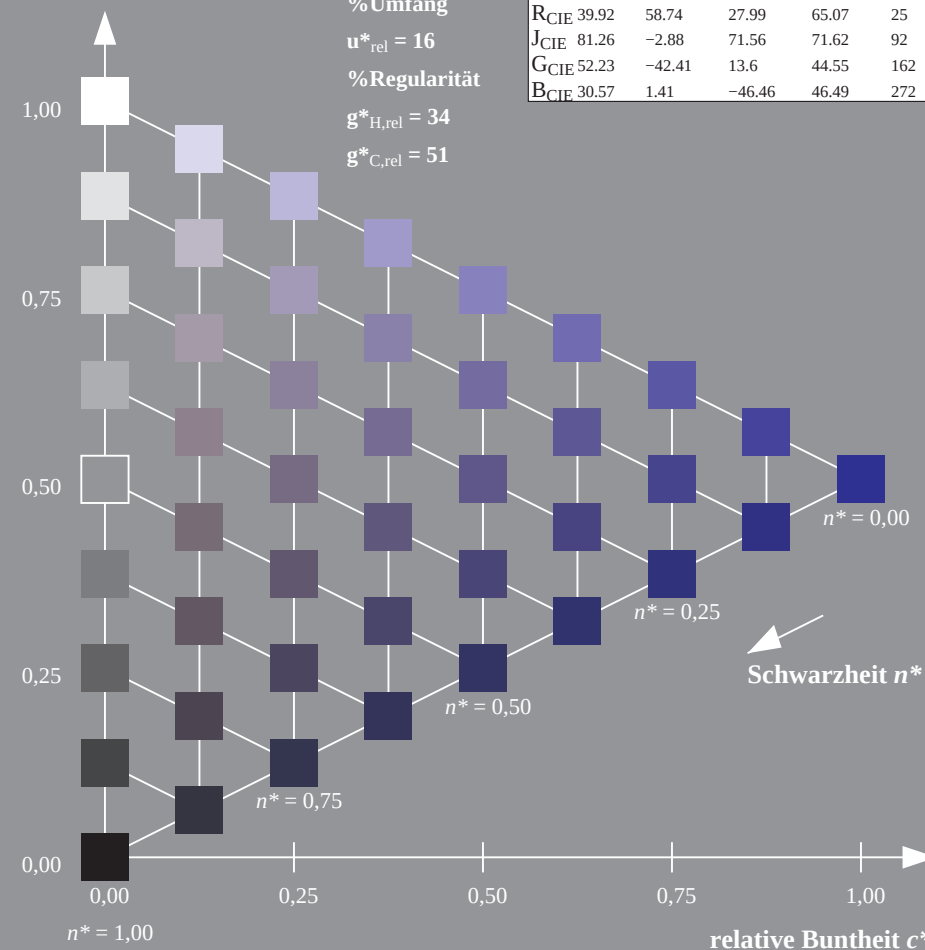
%Umfang

$u^*_{rel} = 16$

%Regularität

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

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



Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 306/360 = 0.851$

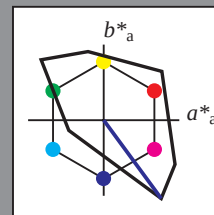
$lab^*tch$  und  $lab^*nch$

D65: Buntton V

LCH\*Ma: 30 129 306

olv\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



TLS00; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

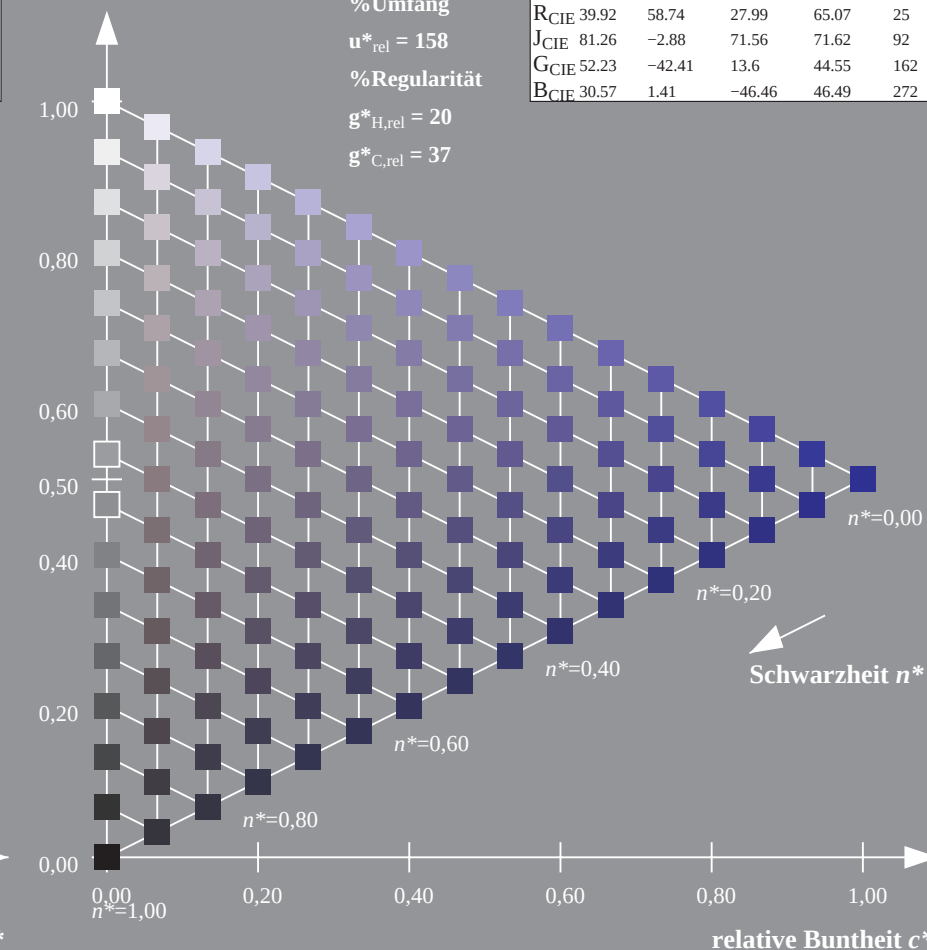
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



OG780-7, 9stufige Reihen für konstanten CIELAB Buntton 294/360 = 0.816 (links)

16stufige Reihen für konstanten CIELAB Buntton 306/360 = 0.851 (rechts)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00 input:  $cmY0^* setcmykcolor$

D65: 9 und 16stufige Farbreihen für 10 Bunttöne

output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 326/360 = 0.906$

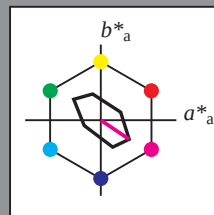
$lab^*tch$  und  $lab^*nch$

D65: Buntton M

LCH\*Ma: 79 45 326

olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



TLS70; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

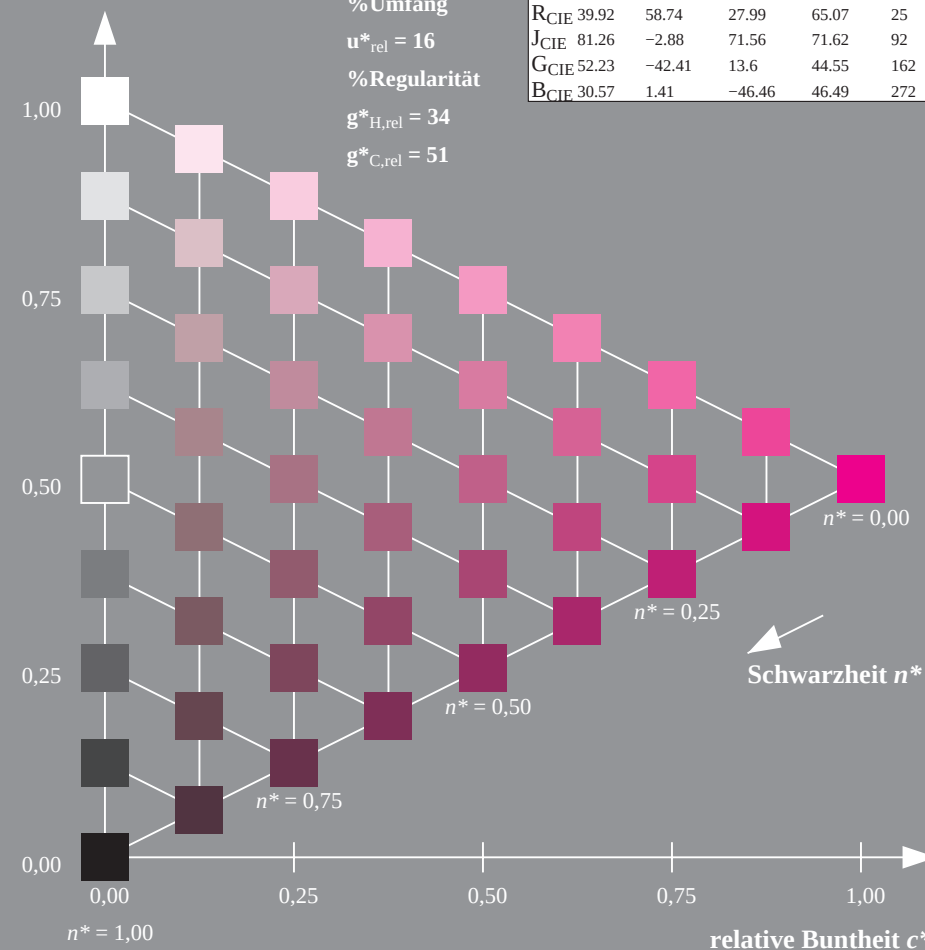
%Umfang

$u^*_{rel} = 16$

%Regularität

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

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



OG780-7, 9stufige Reihen für konstanten CIELAB Buntton 326/360 = 0.906 (links)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00  
D65: 9 und 16stufige Farbreihen für 10 Bunttöne

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 328/360 = 0.912$

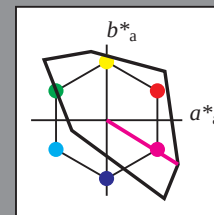
$lab^*tch$  und  $lab^*nch$

D65: Buntton M

LCH\*Ma: 57 111 328

olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



TLS00; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

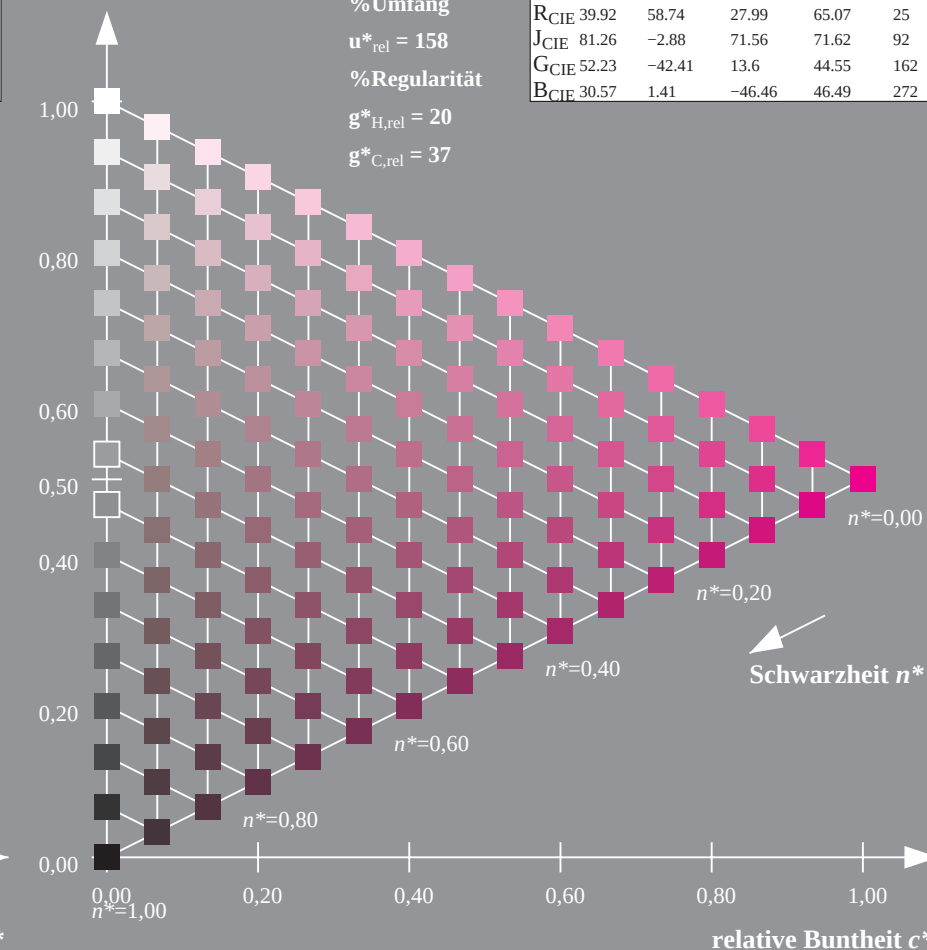
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



16stufige Reihen für konstanten CIELAB Buntton 328/360 = 0.912 (rechts)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00  
D65: 9 und 16stufige Farbreihen für 10 Bunttöne  
input:  $cmY0^* setcmYkcolor$   
output:  $cmY0^* / 000n^* setcmYkcolor$

Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 25/360 = 0.071$

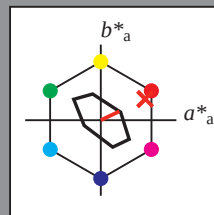
$lab^*tch$  und  $lab^*nch$

D65: Buntton R

LCH\*Ma: 77 27 25

olv\*Ma: 1.0 0.05 0.0

Dreiecks-Helligkeit  $t^*$



TLS70; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

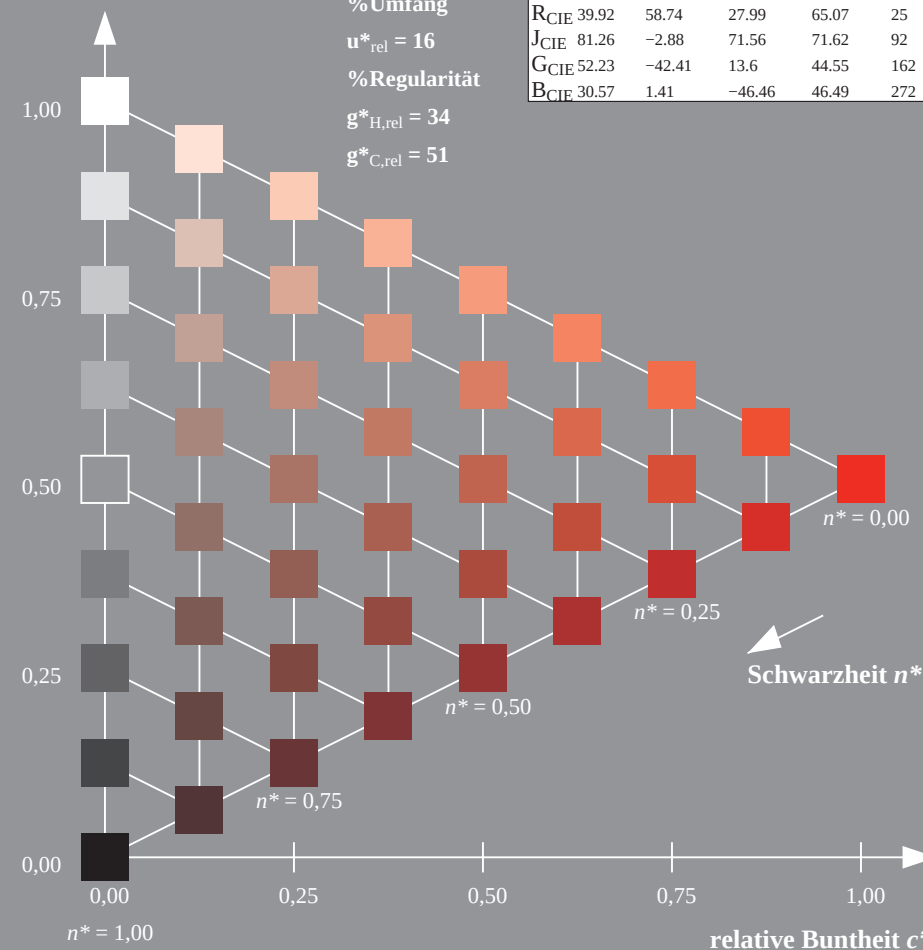
%Umfang

$u^*_{rel} = 16$

%Regularität

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

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



OG780-7, 9stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00 input:  $cmY0^* setcmykcolor$

D65: 9 und 16stufige Farbreihen für 10 Bunttöne

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 25/360 = 0.071$

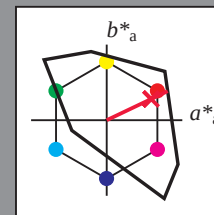
$lab^*tch$  und  $lab^*nch$

D65: Buntton R

LCH\*Ma: 52 89 25

olv\*Ma: 1.0 0.0 0.21

Dreiecks-Helligkeit  $t^*$



TLS00; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

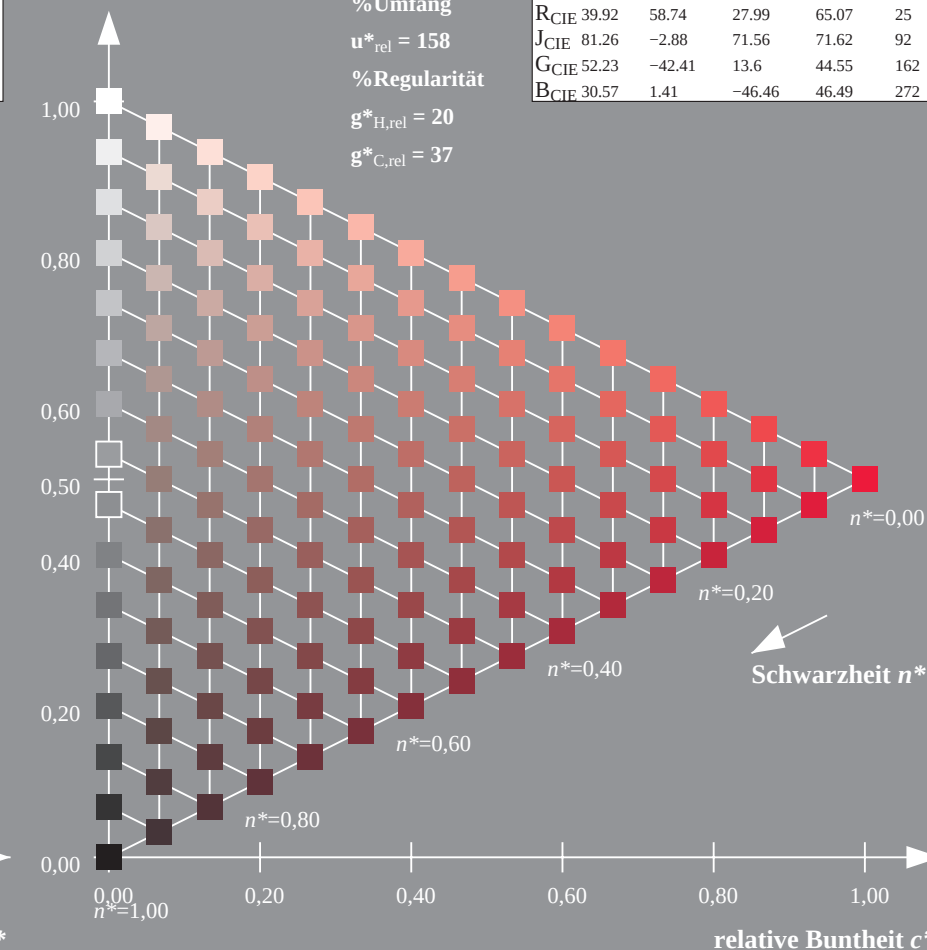
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



16stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (rechts)

output:  $cmY0^* / 000n^* setcmykcolor$



Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 92/360 = 0.256$

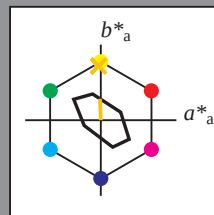
$lab^*tch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 89 28 92

olv\*Ma: 1.0 0.74 0.0

Dreiecks-Helligkeit  $t^*$



TLS70; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

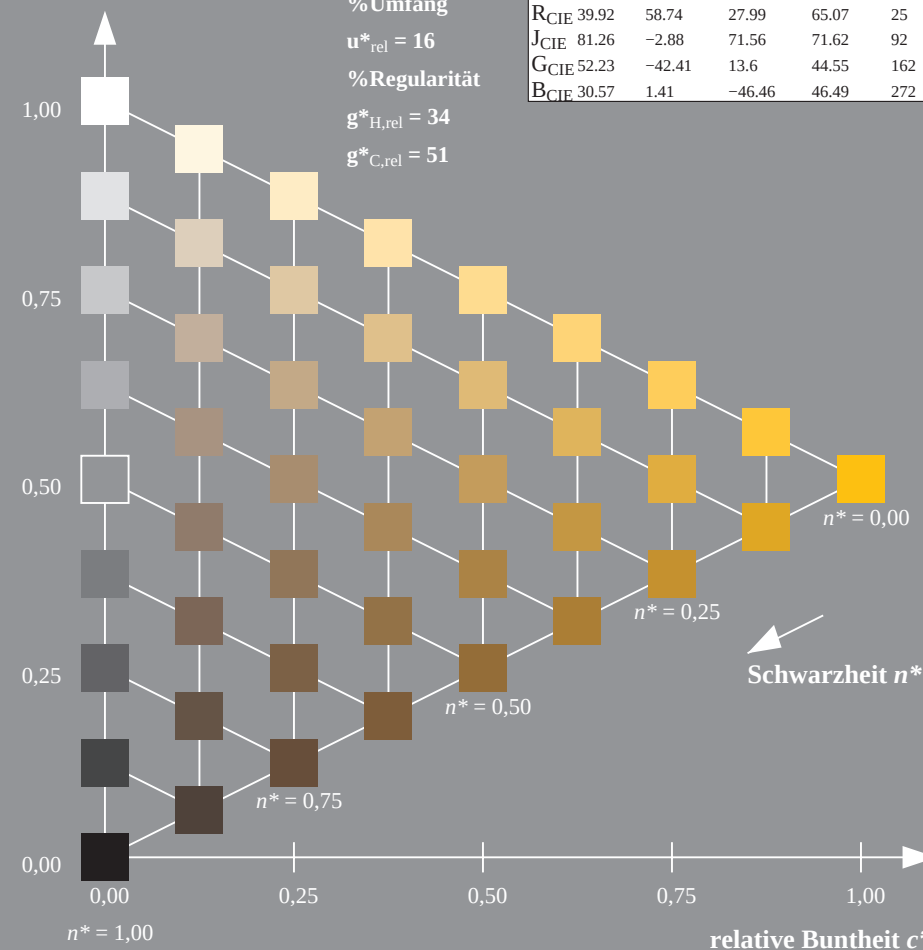
%Umfang

$u^*_{rel} = 16$

%Regularität

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

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



OG780-7, 9stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00 input:  $cmY0^* setcmykcolor$

D65: 9 und 16stufige Farbreihen für 10 Bunttöne

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 92/360 = 0.256$

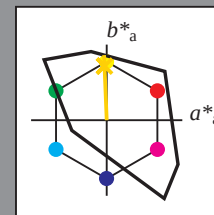
$lab^*tch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 85 86 92

olv\*Ma: 1.0 0.82 0.0

Dreiecks-Helligkeit  $t^*$



TLS00; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

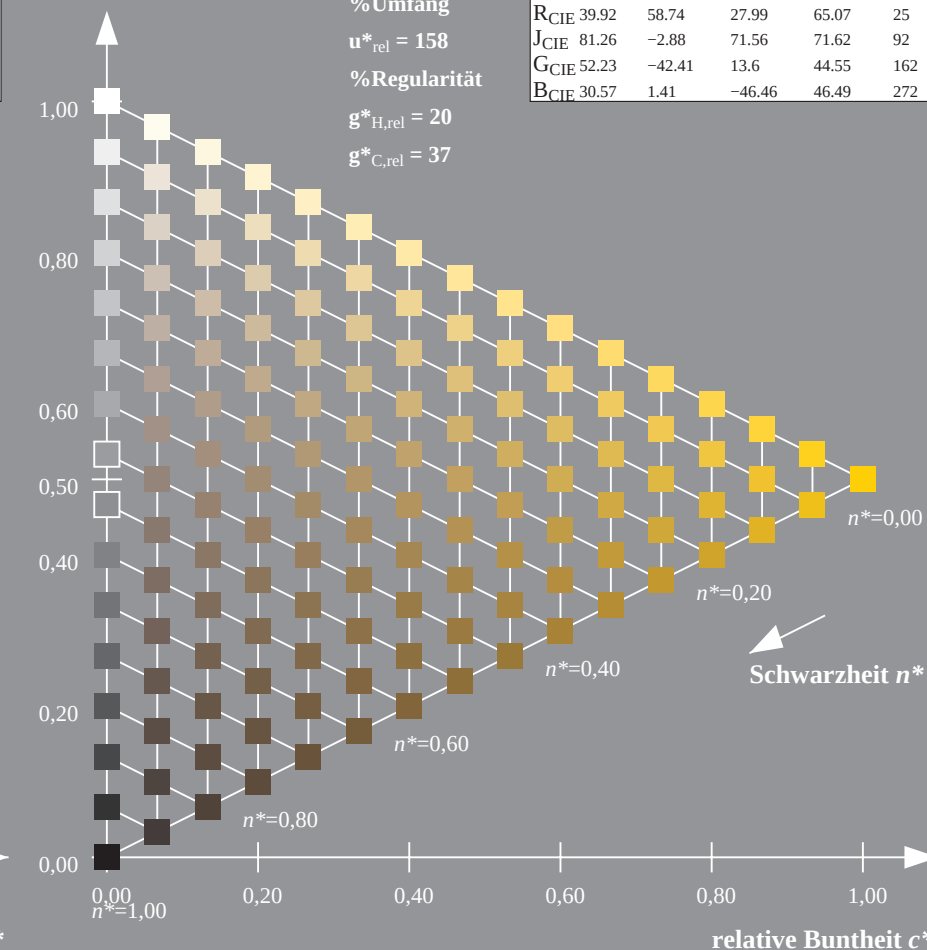
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



16stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (rechts)

output:  $cmY0^* / 000n^* setcmykcolor$



Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 162/360 = 0.451$

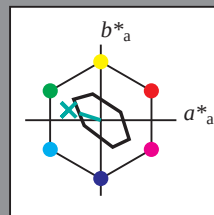
$lab^*tch$  und  $lab^*nch$

D65: Buntton G

LCH\*Ma: 90 30 162

olv\*Ma: 0.0 1.0 0.53

Dreiecks-Helligkeit  $t^*$



TLS70; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43       | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93       | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32       | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93       | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1        | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5        | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

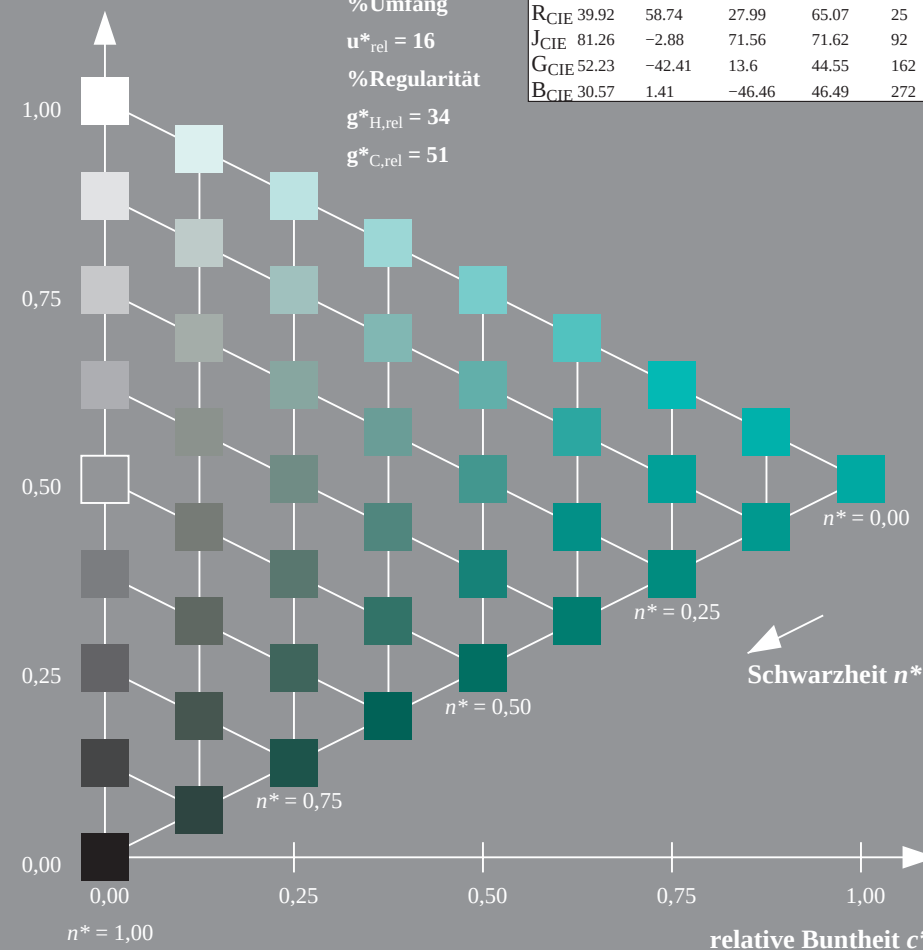
%Umfang

$u^*_{rel} = 16$

%Regularität

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

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



OG780-7, 9stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

BAM-Prüfvorlage OG78; Farbmétrik-Systeme TLS70 & TLS00 input:  $cmY0^* setcmykcolor$

D65: 9 und 16stufige Farbreihen für 10 Bunttöne

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 162/360 = 0.451$

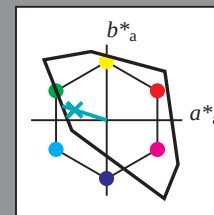
$lab^*tch$  und  $lab^*nch$

D65: Buntton G

LCH\*Ma: 86 62 162

olv\*Ma: 0.0 1.0 0.65

Dreiecks-Helligkeit  $t^*$



TLS00; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 50.5        | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>  | 92.66       | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>  | 83.63       | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>  | 86.88       | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>  | 30.39       | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>  | 57.3        | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>  | 0.01        | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26       | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23       | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57       | 1.41    | -46.46  | 46.49        | 272          |

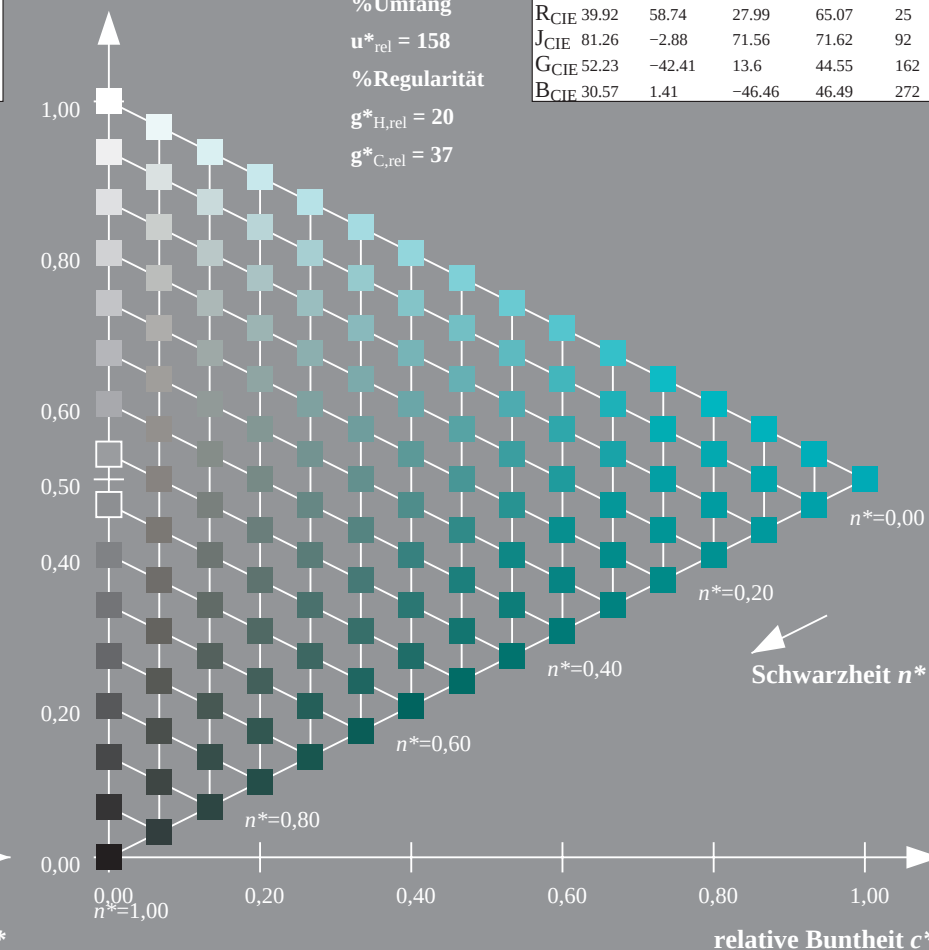
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



16stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (rechts)

output:  $cmY0^* / 000n^* setcmykcolor$

## Eingabe: Farbmétrisches Fernseh-Licht-System TLS70

für Buntton  $h^* = lab^*h = 272/360 = 0.755$

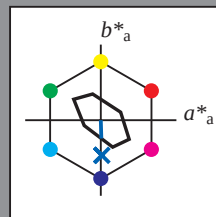
*lab\*tch* und *lab\*nch*

## D65: Buntton B

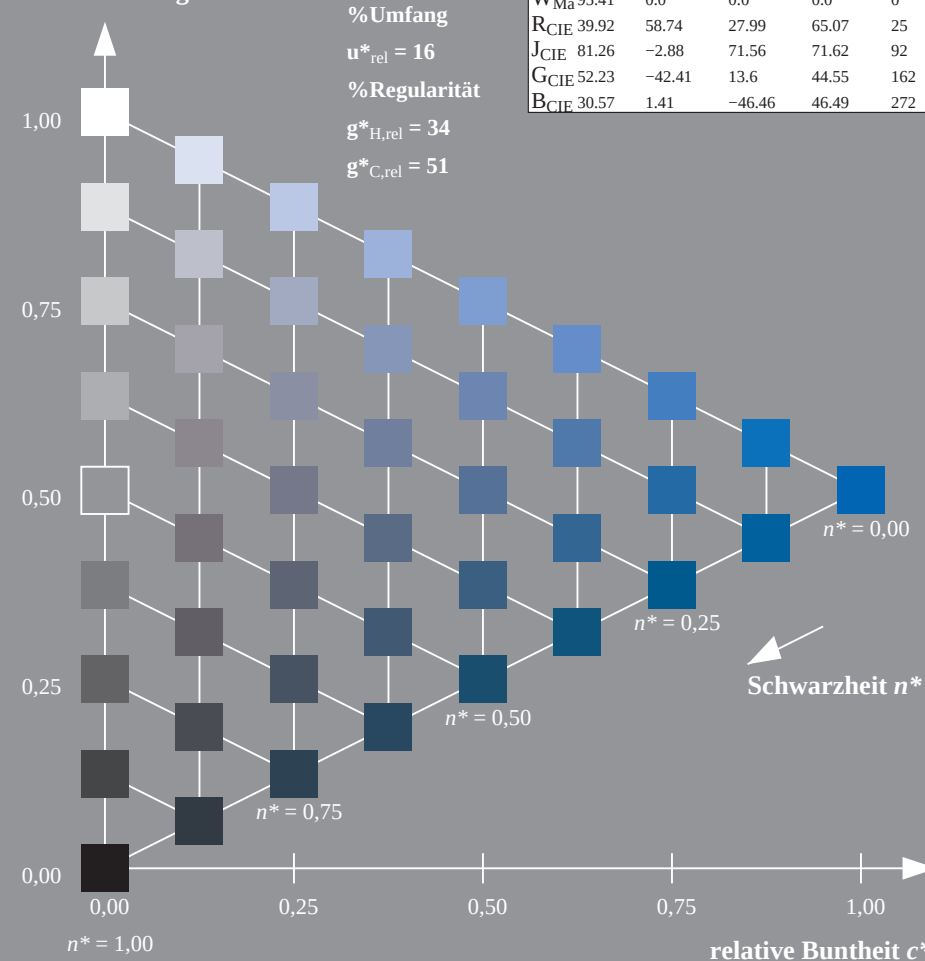
LCH\*Ma: 80 24 272

**olv\*Ma: 0.0 0.4 1.0**

### Dreiecks-Helligkeit $t^*$



|                  | $L^*_a = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-----------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43           | 26.27   | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93           | -10.76  | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32           | -35.8   | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93           | -21.95  | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1            | 15.76   | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5            | 37.52   | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7            | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>  | 95.41           | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92           | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26           | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub> | 52.23           | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub> | 30.57           | 1.41    | -46.46  | 46.49        | 272          |



OG780-7, 9stufige Reihen für konstanten CIELAB Buntton  $272/360 = 0.755$  (links)

BAM-Prüfvorlage OG78; Farbmeter-Systeme TLS70 & TLS00 input: *cmy0\* setcmykcolor*

## D65: 9 und 16stufige Farbreihen für 10 Bunttöne

**Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00**

für Buntton  $h^* = lab^*h = 272/360 = 0.755$

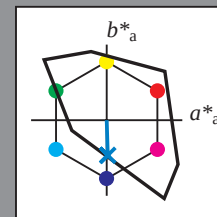
*lab\*tch* und *lab\*nch*

D65: Buntton B

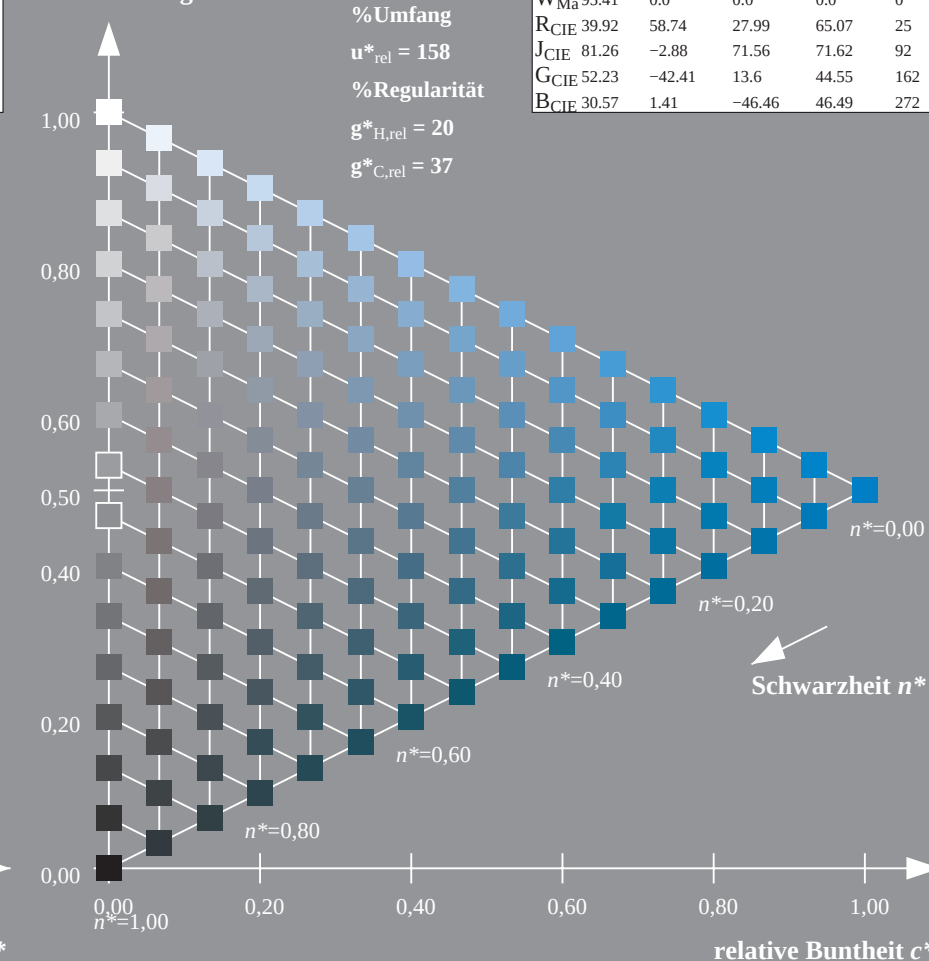
LCH\*Ma: 65 49 272

olv\*Ma: 0.0 0.61 1.0

### Dreiecks-Helligkeit $t^*$



| TLS00; adaptierte CIELAB-Daten |            |            |            |              |              |
|--------------------------------|------------|------------|------------|--------------|--------------|
|                                | $L^*_{*a}$ | $a^*_{*a}$ | $b^*_{*a}$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                | 50.5       | 76.92      | 64.55      | 100.42       | 40           |
| Y <sub>Ma</sub>                | 92.66      | -20.69     | 90.75      | 93.08        | 103          |
| L <sub>Ma</sub>                | 83.63      | -82.75     | 79.9       | 115.04       | 136          |
| C <sub>Ma</sub>                | 86.88      | -46.16     | -13.55     | 48.12        | 196          |
| V <sub>Ma</sub>                | 30.39      | 76.06      | -103.59    | 128.52       | 306          |
| M <sub>Ma</sub>                | 57.3       | 94.35      | -58.41     | 110.97       | 328          |
| N <sub>Ma</sub>                | 0.01       | 0.0        | 0.0        | 0.0          | 0            |
| W <sub>Ma</sub>                | 95.41      | 0.0        | 0.0        | 0.0          | 0            |
| R <sub>CIE</sub>               | 39.92      | 58.74      | 27.99      | 65.07        | 25           |
| J <sub>CIE</sub>               | 81.26      | -2.88      | 71.56      | 71.62        | 92           |
| G <sub>CIE</sub>               | 52.23      | -42.41     | 13.6       | 44.55        | 162          |
| B <sub>CIE</sub>               | 30.57      | 1.41       | -46.46     | 46.49        | 272          |

16stufige Reihen für konstanten CIELAB Buntton  $272/360 = 0.755$  (rechts)

input: *cmy0\** *setcmykcolor*

```
output: cmy0* / 000n* setcmykcolor
```