

Eingabe: Farbmétrisches Offset-Reflektiv-System ORS18

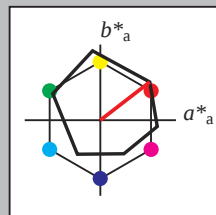
für Buntton  $h^* = lab^*h = 38/360 = 0.105$

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

D65: Buntton O

LCH\*Ma: 48 83 38

olv\*Ma: 1.0 0.0 0.0



ORS18; adaptierte CIELAB-Daten

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

Dreiecks-Helligkeit  $t^*$

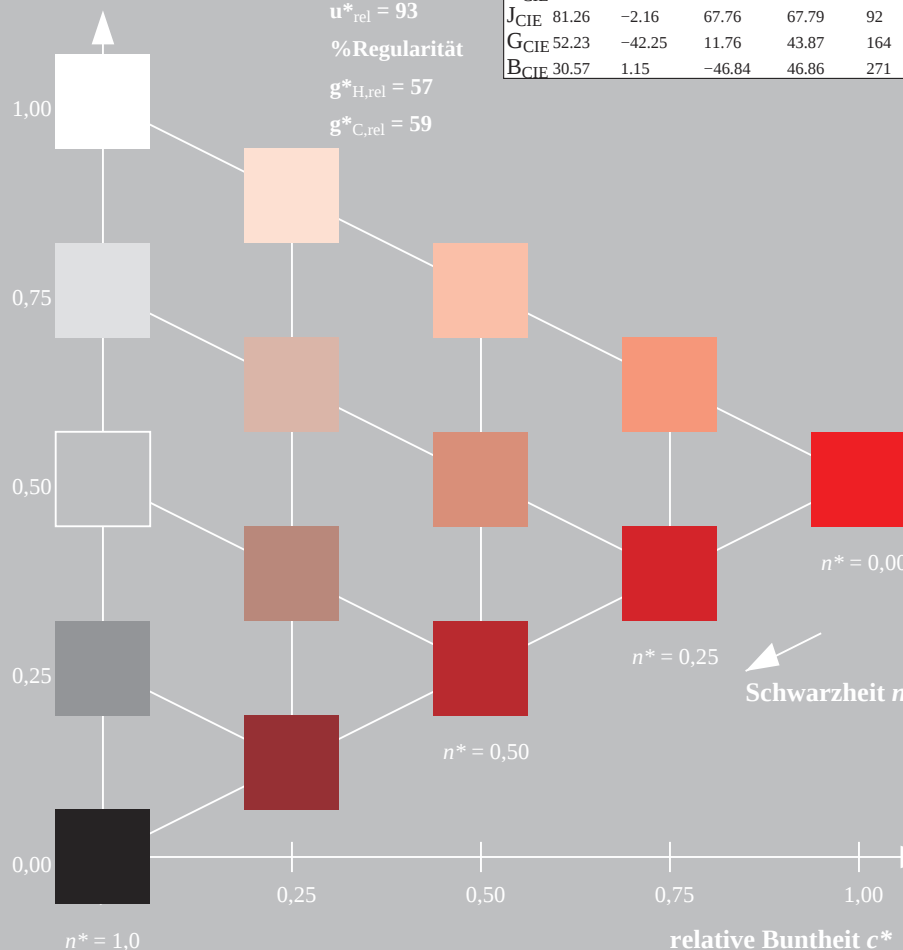
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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



QG200-7, 5 stufige Reihen für konstanten CIELAB Buntton  $38/360 = 0.105$  (links)

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

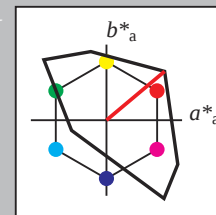
für Buntton  $h^* = lab^*h = 40/360 = 0.111$

$LAB^*LCH$ ,  $LAB^*NCH$

D65: Buntton O

LCH\*Ma: 51 100 40

olv\*Ma: 1.0 0.0 0.0



TLS00; adaptierte CIELAB-Daten

|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------|-------------|---------|---------|--------------|--------------|
| $O_m$     | 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-Helligkeit  $L^*$

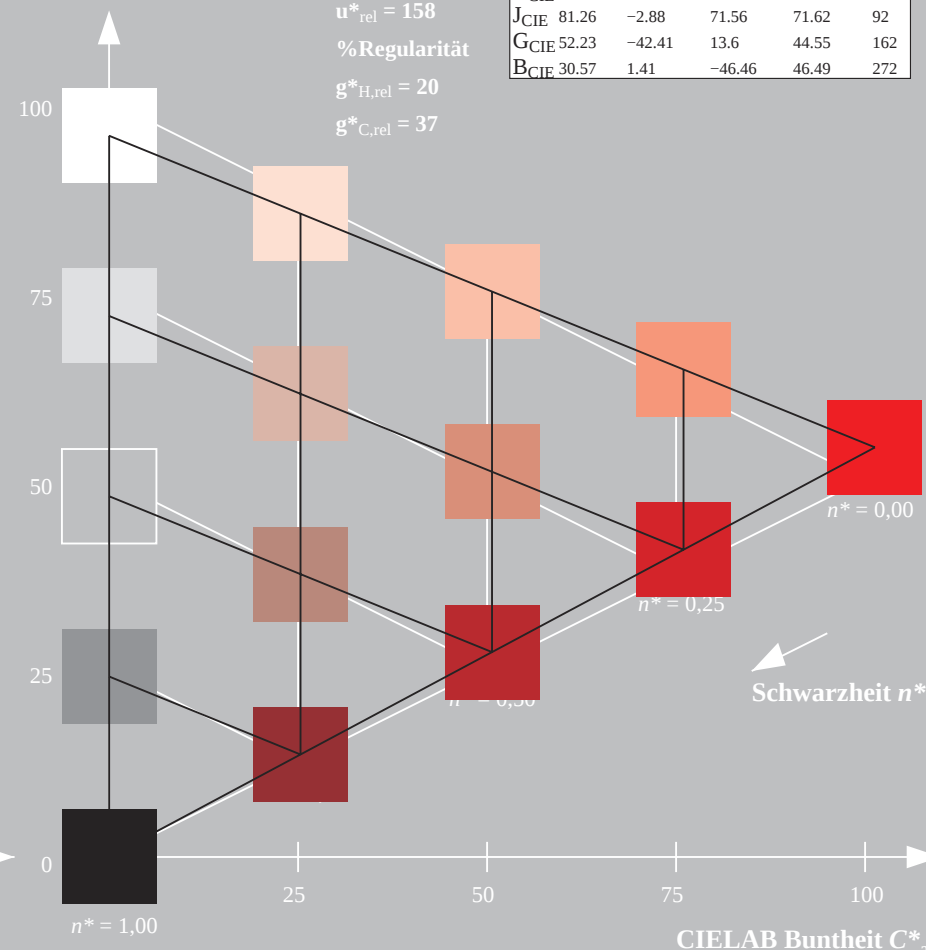
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



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

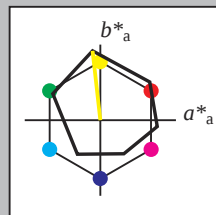
BAM-Prüfvorlage QG20; Farbmétrik-Systeme ORS18 & TLS00 input:  $cmY0^* setcmykcolor$

D50: Koordinatensysteme; 5stufige Farbreihen für 10 Bunttöne output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Offset-Reflektiv-System ORS18

für Buntton  $h^* = lab^*h = 96/360 = 0.268$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton Y  
LCH\*Ma: 90 92 96  
olv\*Ma: 1.0 1.0 0.0



ORS18; adaptierte CIELAB-Daten

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

Dreiecks-Helligkeit  $t^*$

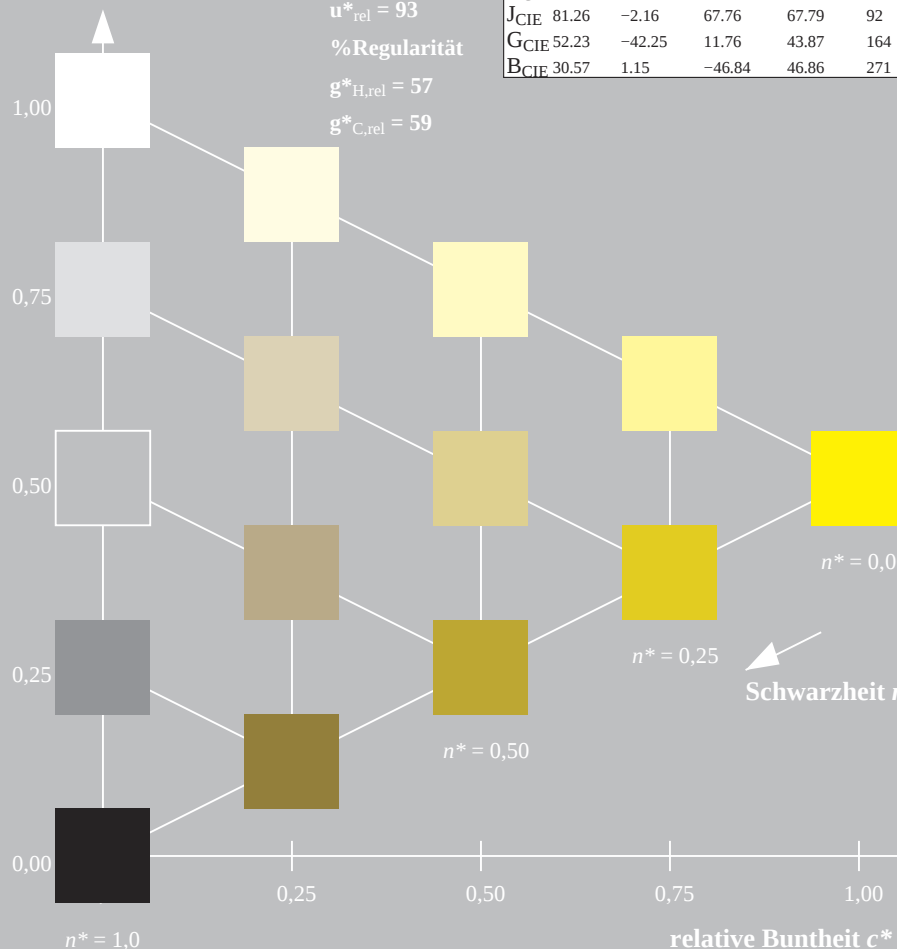
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

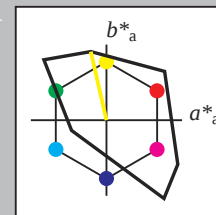


QG200-7, 5 stufige Reihen für konstanten CIELAB Buntton  $96/360 = 0.268$  (links)

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 103/360 = 0.286$   
 $LAB^*LCH$ ,  $LAB^*NCH$

D65: Buntton Y  
LCH\*Ma: 93 93 103  
olv\*Ma: 1.0 1.0 0.0



TLS00; adaptierte CIELAB-Daten

|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------|-------------|---------|---------|--------------|--------------|
| $O_m$     | 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-Helligkeit  $L^*$

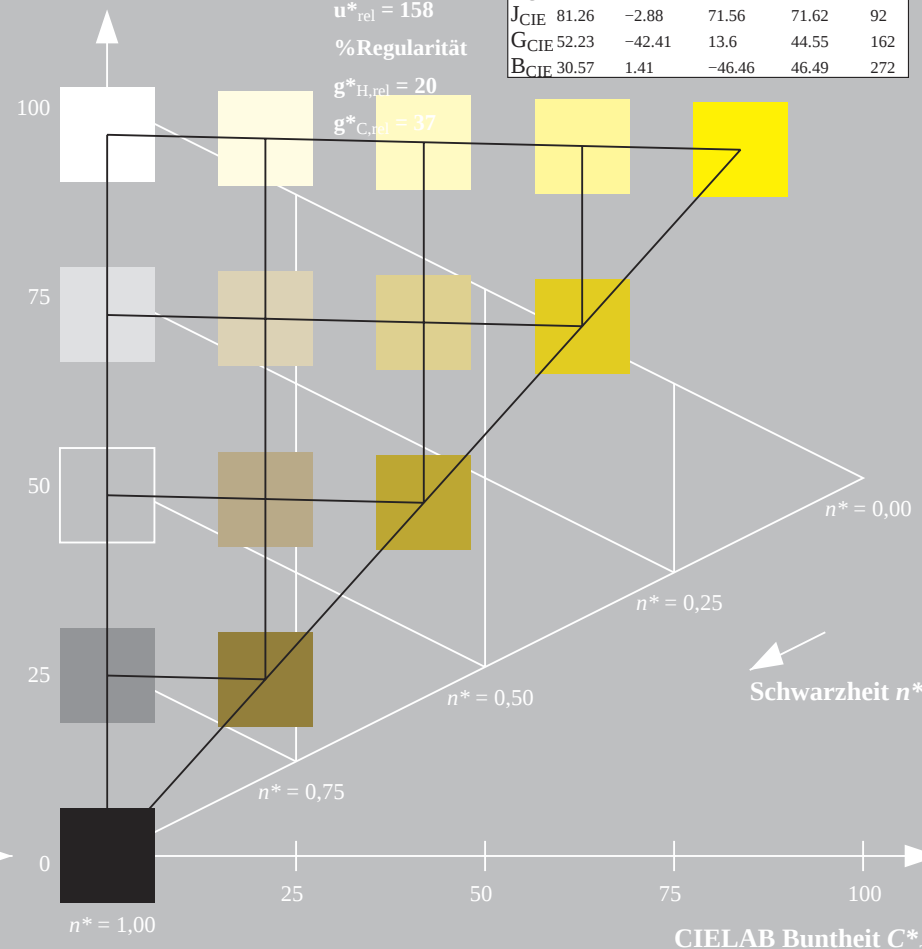
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



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

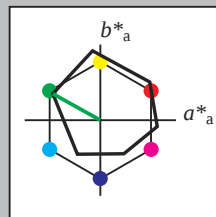
BAM-Prüfvorlage QG20; Farbmétrik-Systeme ORS18 & TLS00 input:  $cmY0^* setcmykcolor$

D50: Koordinatensysteme; 5stufige Farbreihen für 10 Bunttöne output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Offset-Reflektiv-System ORS18

für Buntton  $h^* = lab^*h = 151/360 = 0.419$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton L  
LCH\*Ma: 51 72 151  
olv\*Ma: 0.0 1.0 0.0



ORS18; adaptierte CIELAB-Daten

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

Dreiecks-Helligkeit  $t^*$

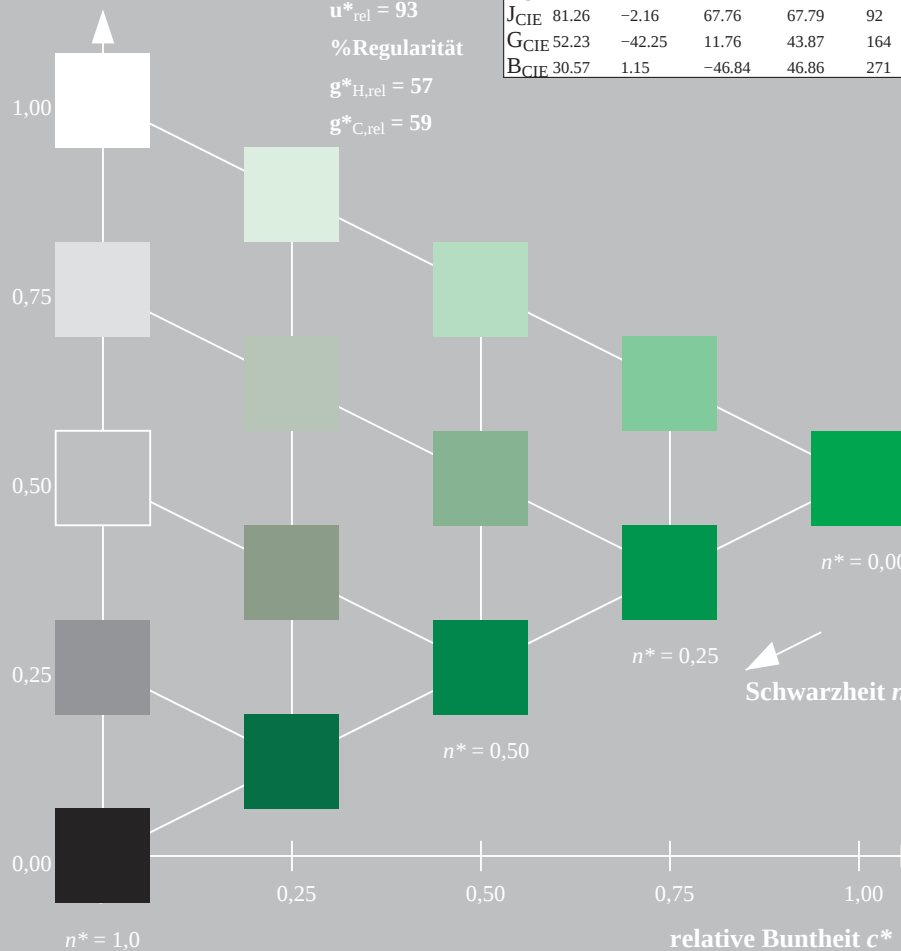
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

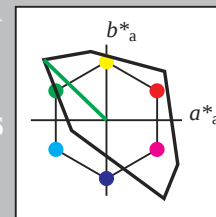


QG200-7, 5 stufige Reihen für konstanten CIELAB Buntton 151/360 = 0.419 (links)

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 136/360 = 0.378$   
 $LAB^*LCH$ ,  $LAB^*NCH$

D65: Buntton L  
LCH\*Ma: 84 115 136  
olv\*Ma: 0.0 1.0 0.0



TLS00; adaptierte CIELAB-Daten

|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------|-------------|---------|---------|--------------|--------------|
| $O_m$     | 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-Helligkeit  $L^*$

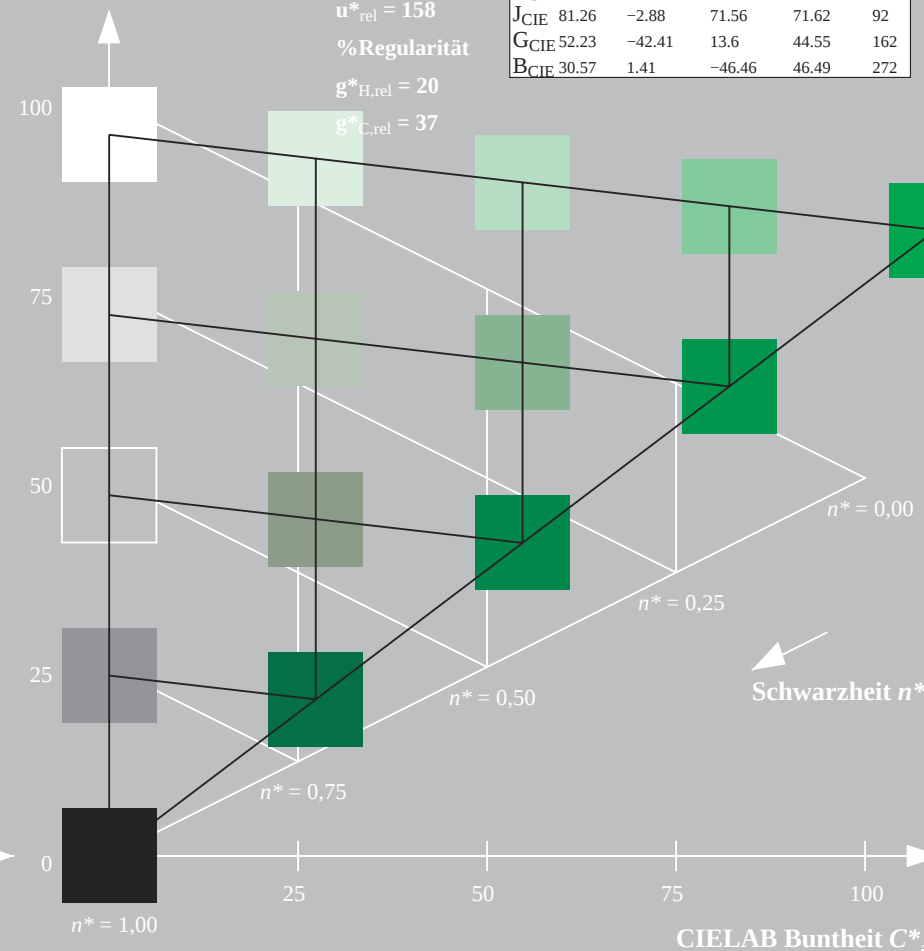
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



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

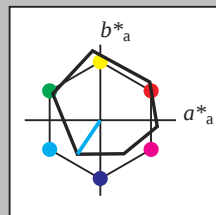
BAM-Prüfvorlage QG20; Farbmétrik-Systeme ORS18 & TLS00 input:  $cmY0^* setcmykcolor$

D50: Koordinatensysteme; 5stufige Farbreihen für 10 Bunttöne output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Offset-Reflektiv-System ORS18

für Buntton  $h^* = lab \cdot h = 236/360 = 0.656$   
 $lab \cdot tch$  und  $lab \cdot nch$

D65: Buntton C  
LCH\*Ma: 59 54 236  
olv\*Ma: 0.0 1.0 1.0



ORS18; adaptierte CIELAB-Daten

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

Dreiecks-Helligkeit  $t^*$

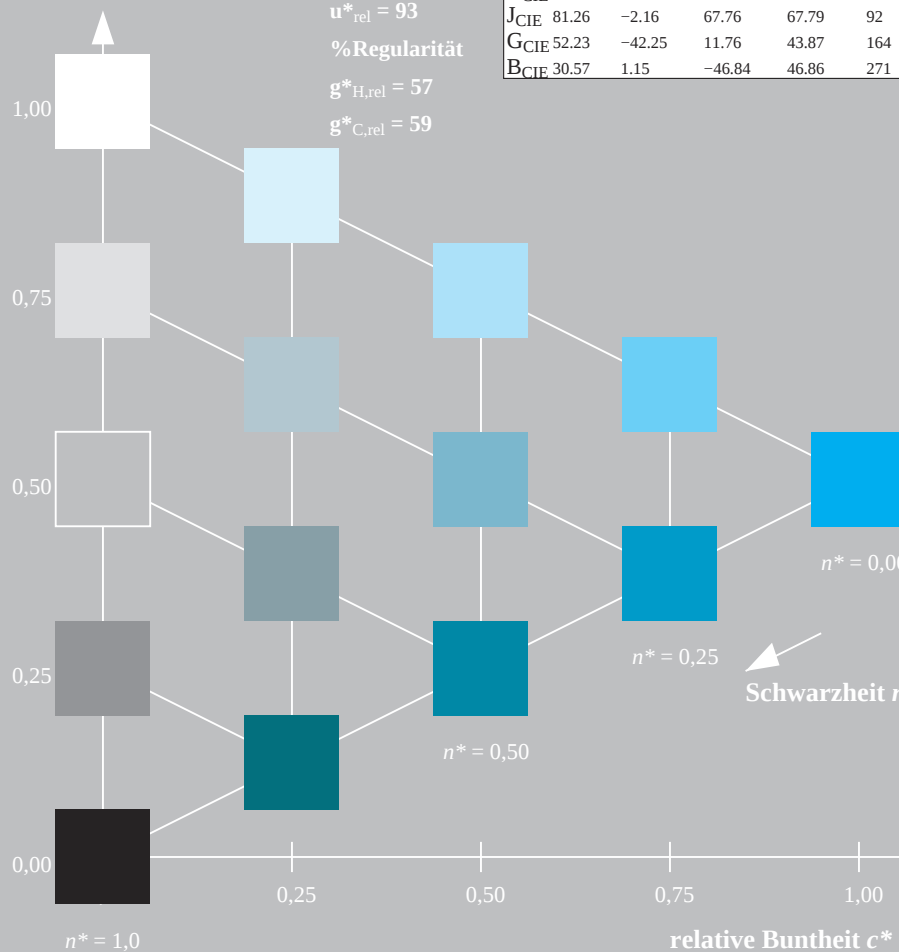
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

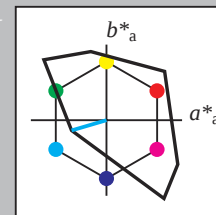


QG200-7, 5 stufige Reihen für konstanten CIELAB Buntton 236/360 = 0.656 (links)

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab \cdot h = 196/360 = 0.545$   
 $LAB \cdot LCH$ ,  $LAB \cdot NCH$

D65: Buntton C  
LCH\*Ma: 87 48 196  
olv\*Ma: 0.0 1.0 1.0



TLS00; adaptierte CIELAB-Daten

|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------|-------------|---------|---------|--------------|--------------|
| $O_m$     | 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-Helligkeit  $L^*$

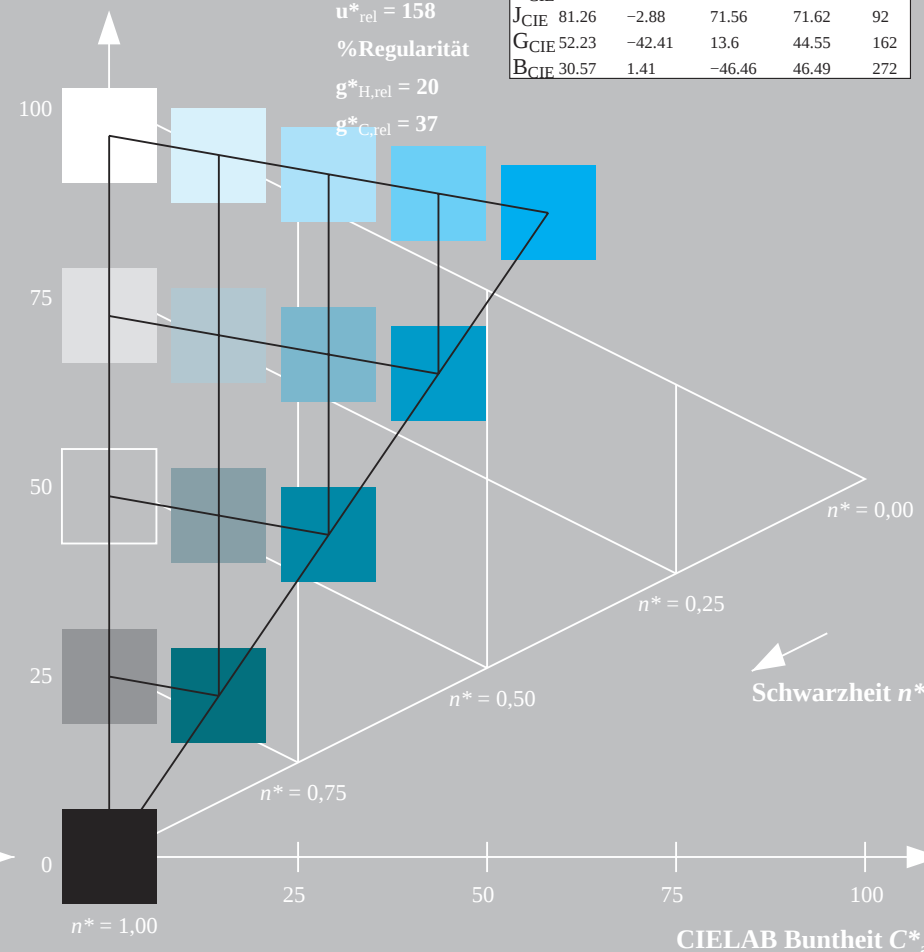
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



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

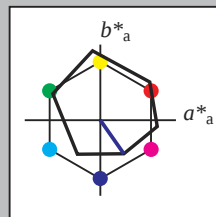
BAM-Prüfvorlage QG20; Farbmétrik-Systeme ORS18 & TLS00 input:  $cmY0^* setcmykcolor$

D50: Koordinatensysteme; 5stufige Farbreihen für 10 Bunttöne output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Offset-Reflektiv-System ORS18

für Buntton  $h^* = lab^*h = 305/360 = 0.847$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton V  
LCH\*Ma: 26 54 305  
olv\*Ma: 0.0 0.0 1.0



ORS18; adaptierte CIELAB-Daten

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

Dreiecks-Helligkeit  $t^*$

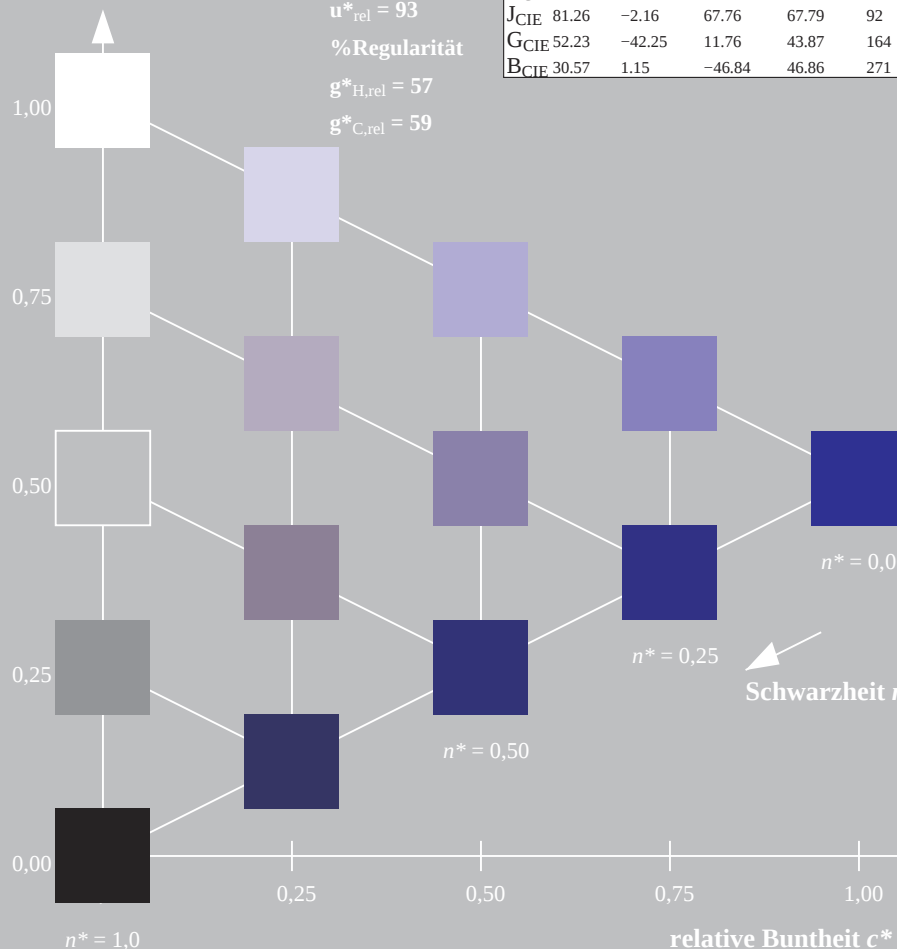
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

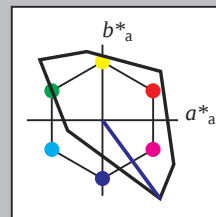


QG200-7, 5 stufige Reihen für konstanten CIELAB Buntton 305/360 = 0.847 (links)

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 306/360 = 0.851$   
 $LAB^*LCH$ ,  $LAB^*NCH$

D65: Buntton V  
LCH\*Ma: 30 129 306  
olv\*Ma: 0.0 0.0 1.0



TLS00; adaptierte CIELAB-Daten

|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------|-------------|---------|---------|--------------|--------------|
| $O_m$     | 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-Helligkeit  $L^*$

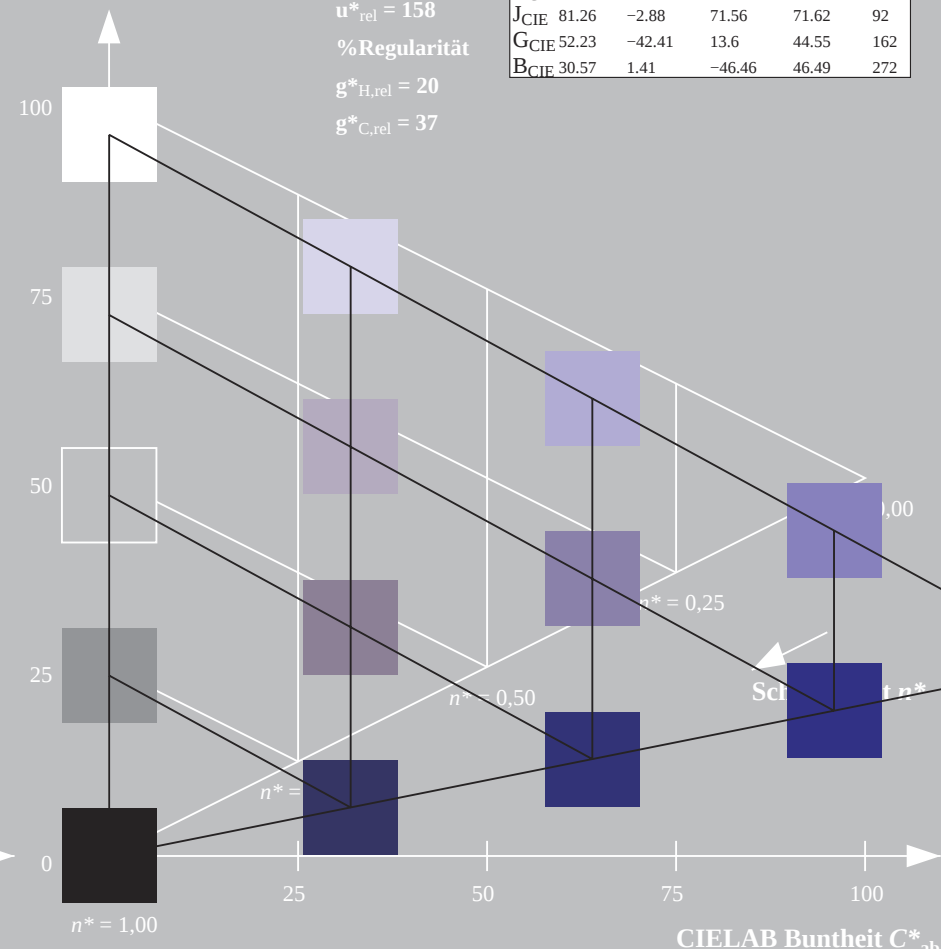
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



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

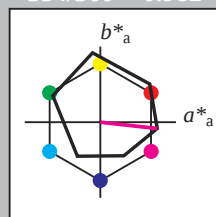
BAM-Prüfvorlage QG20; Farbmétrik-Systeme ORS18 & TLS00 input:  $cmY0^* setcmykcolor$

D50: Koordinatensysteme; 5stufige Farbreihen für 10 Bunttöne output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Offset-Reflektiv-System ORS18

für Buntton  $h^* = lab^*h = 354/360 = 0.982$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton M  
LCH\*Ma: 48 76 354  
olv\*Ma: 1.0 0.0 1.0



ORS18; adaptierte CIELAB-Daten

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

Dreiecks-Helligkeit  $t^*$

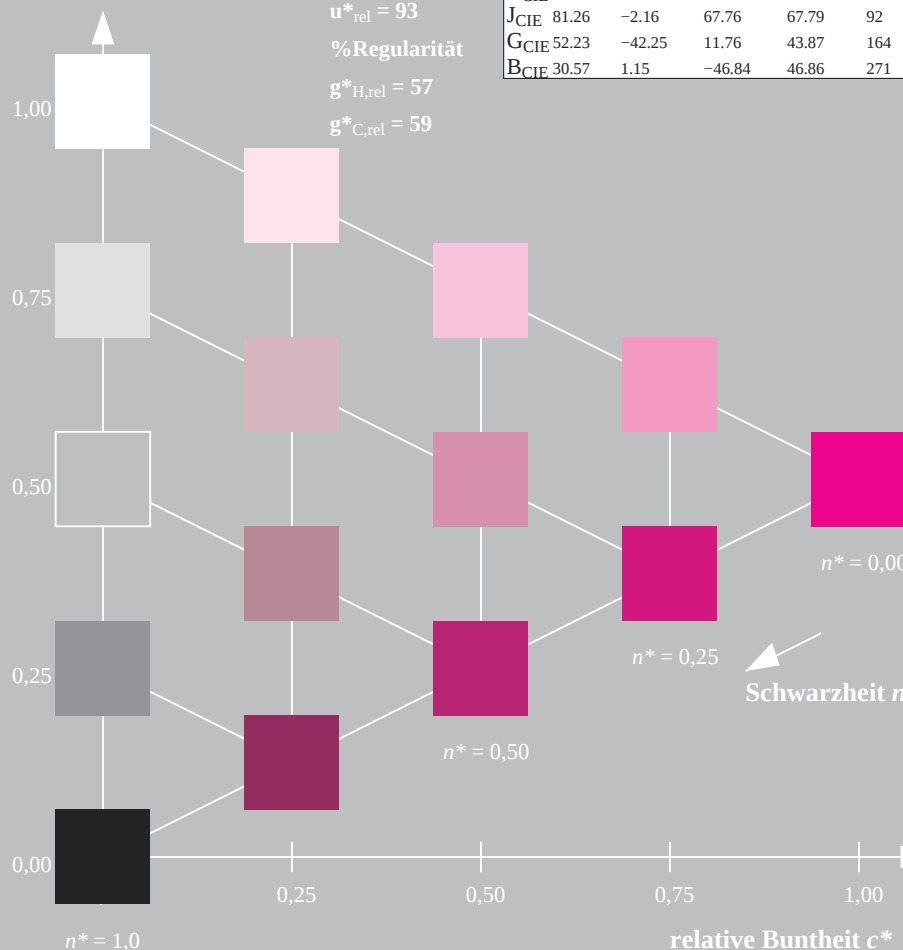
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

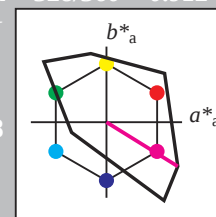


QG200-7, 5 stufige Reihen für konstanten CIELAB Buntton 354/360 = 0.982 (links)

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 328/360 = 0.912$   
 $LAB^*LCH$ ,  $LAB^*NCH$

D65: Buntton M  
LCH\*Ma: 57 111 328  
olv\*Ma: 1.0 0.0 1.0



TLS00; adaptierte CIELAB-Daten

|           | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-----------|-------------|---------|---------|--------------|--------------|
| $O_m$     | 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-Helligkeit  $L^*$

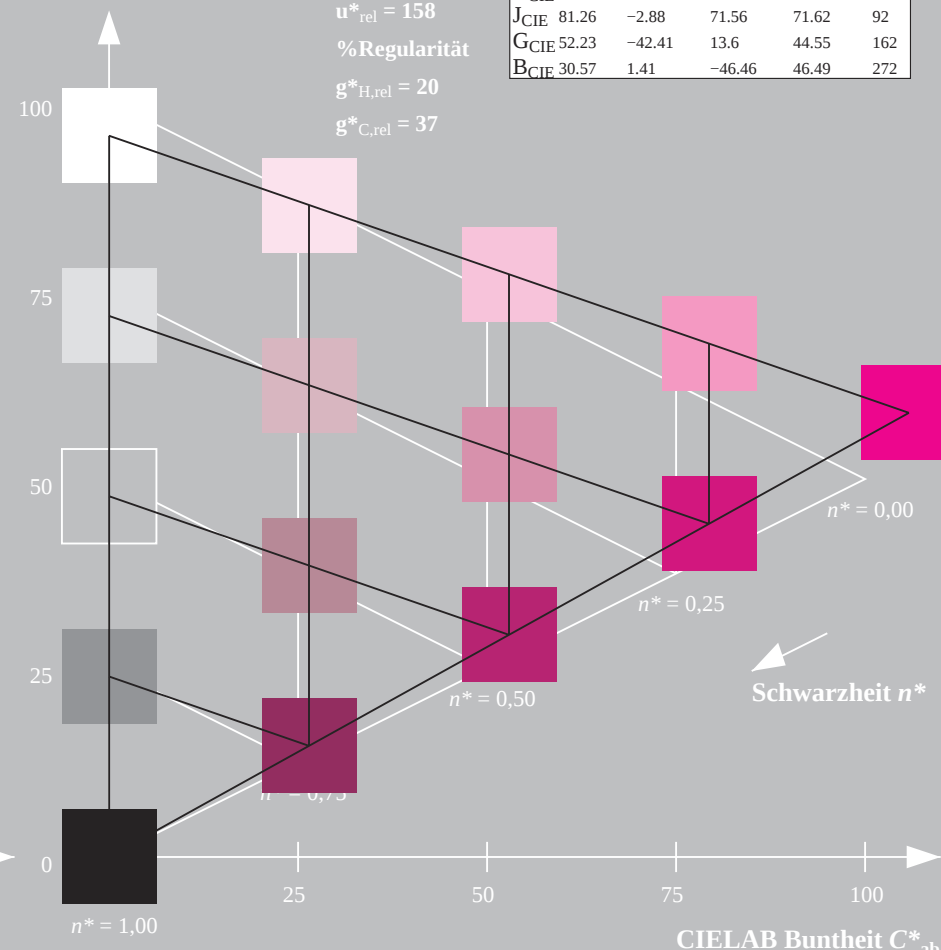
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



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

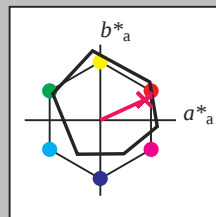
BAM-Prüfvorlage QG20; Farbmétrik-Systeme ORS18 & TLS00 input:  $cmY0^* setcmykcolor$

D50: Koordinatensysteme; 5stufige Farbreihen für 10 Bunttöne output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Offset-Reflektiv-System ORS18

für Buntton  $h^* = lab^*h = 25/360 = 0.069$   
 $lab^*tch$  und  $lab^*nch$

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



ORS18; adaptierte CIELAB-Daten

|                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|----------------|-------------|---------|---------|--------------|--------------|
| O <sub>m</sub> | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>m</sub> | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>m</sub> | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>m</sub> | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>m</sub> | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>m</sub> | 48.13       | 75.28   | -8.36   | 75.74        | 354          |
| N <sub>m</sub> | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>m</sub> | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>m</sub> | 39.92       | 58.66   | 26.98   | 64.57        | 25           |
| J <sub>m</sub> | 81.26       | -2.16   | 67.76   | 67.79        | 92           |
| G <sub>m</sub> | 52.23       | -42.25  | 11.76   | 43.87        | 164          |
| B <sub>m</sub> | 30.57       | 1.15    | -46.84  | 46.86        | 271          |

Dreiecks-Helligkeit  $t^*$

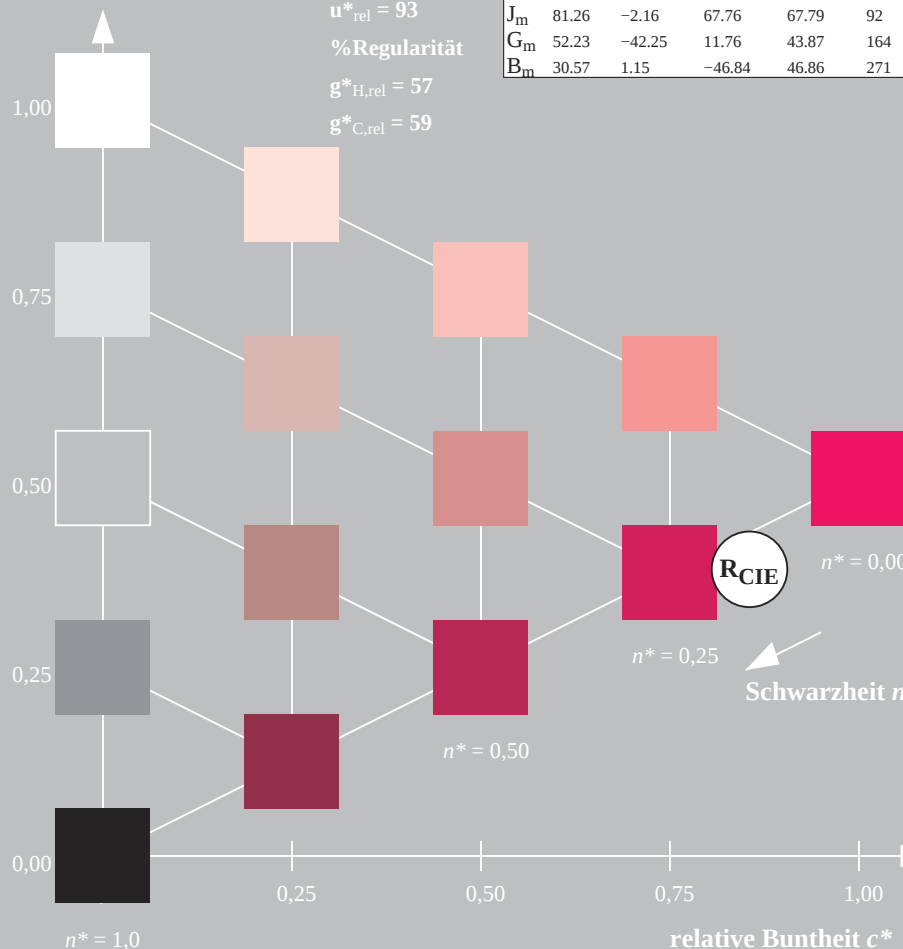
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

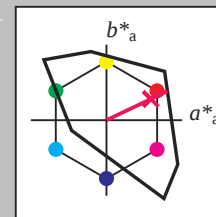


QG200-7, 5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (links)

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 25/360 = 0.071$   
 $LAB^*LCH$ ,  $LAB^*NCH$

D65: Buntton R  
LCH\*Ma: 52 89 25  
olv\*Ma: 1.0 0.0 0.21



TLS00; adaptierte CIELAB-Daten

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

CIELAB-Helligkeit  $L^*$

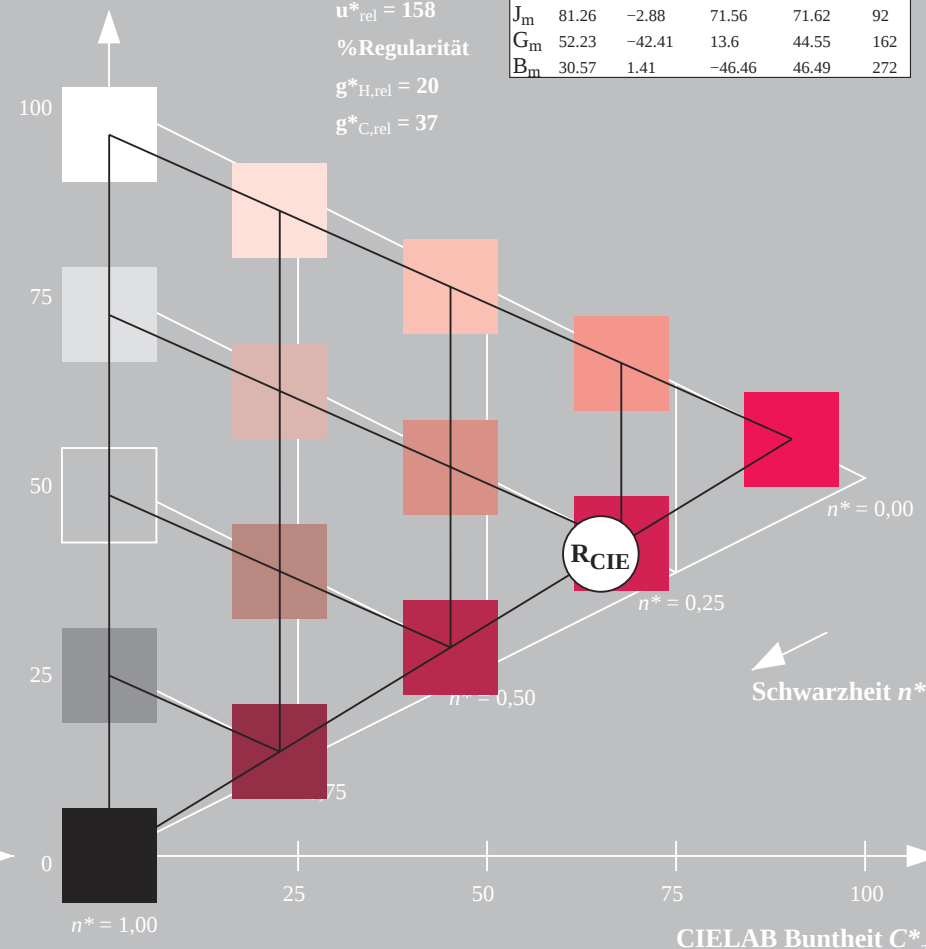
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



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

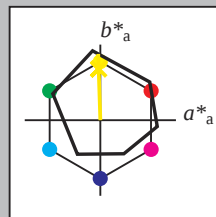
BAM-Prüfvorlage QG20; Farbmétrik-Systeme ORS18 & TLS00 input:  $cmY0^* setcmykcolor$

D50: Koordinatensysteme; 5stufige Farbreihen für 10 Bunttöne output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Offset-Reflektiv-System ORS18

für Buntton  $h^* = lab^*h = 92/360 = 0.255$   
 $lab^*tch$  und  $lab^*nch$

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



ORS18; adaptierte CIELAB-Daten

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

Dreiecks-Helligkeit  $t^*$

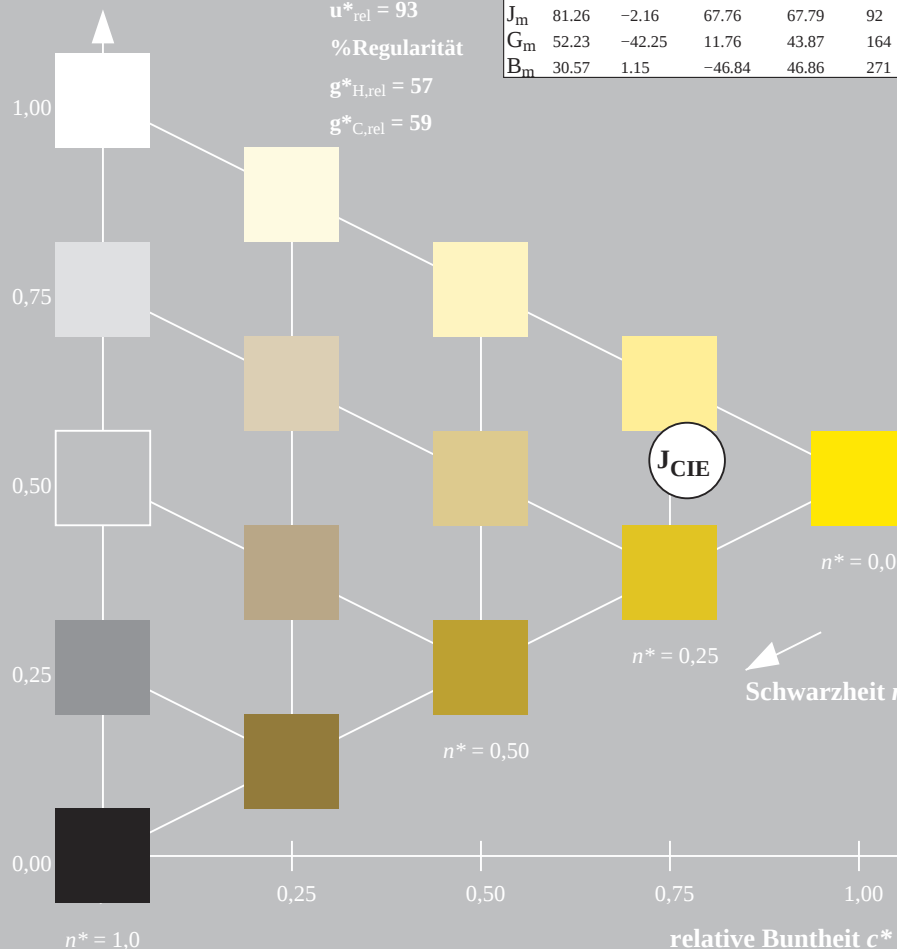
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

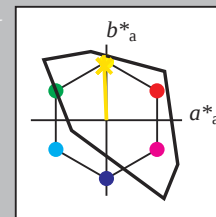


QG200-7, 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (links)

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 92/360 = 0.256$   
 $LAB^*LCH$ ,  $LAB^*NCH$

D65: Buntton J  
LCH\*Ma: 85 86 92  
olv\*Ma: 1.0 0.82 0.0



TLS00; adaptierte CIELAB-Daten

|       | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|-------|-------------|---------|---------|--------------|--------------|
| $O_m$ | 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-Helligkeit  $L^*$

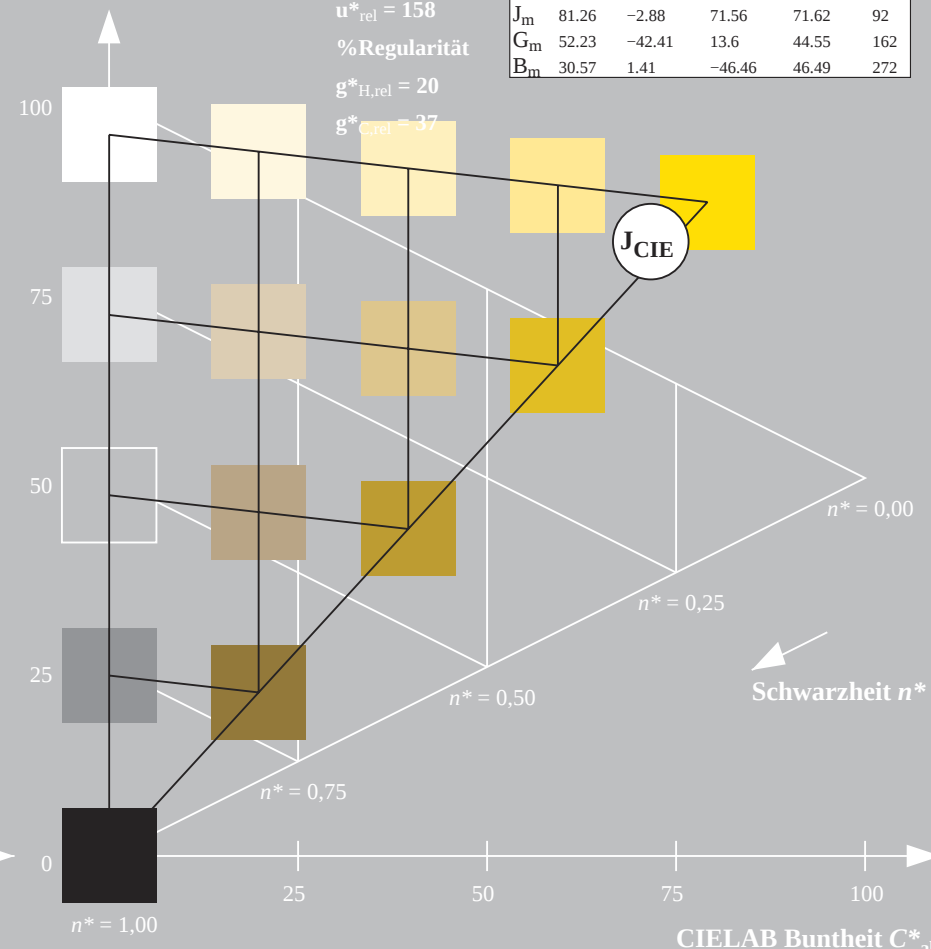
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



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

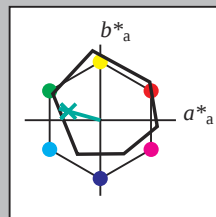
BAM-Prüfvorlage QG20; Farbmétrik-Systeme ORS18 & TLS00 input:  $cmY0^* setcmykcolor$

D50: Koordinatensysteme; 5stufige Farbreihen für 10 Bunttöne output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmimetrisches Offset-Reflektiv-System ORS18

für Buntton  $h^* = lab^*h = 164/360 = 0.457$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton G  
LCH\*Ma: 53 57 164  
olv\*Ma: 0.0 1.0 0.25



| ORS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>m</sub>                 | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>m</sub>                 | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>m</sub>                 | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>m</sub>                 | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>m</sub>                 | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>m</sub>                 | 48.13       | 75.28   | -8.36   | 75.74        | 354          |
| N <sub>m</sub>                 | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>m</sub>                 | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>m</sub>                 | 39.92       | 58.66   | 26.98   | 64.57        | 25           |
| J <sub>m</sub>                 | 81.26       | -2.16   | 67.76   | 67.79        | 92           |
| G <sub>m</sub>                 | 52.23       | -42.25  | 11.76   | 43.87        | 164          |
| B <sub>m</sub>                 | 30.57       | 1.15    | -46.84  | 46.86        | 271          |

Dreiecks-Helligkeit  $t^*$

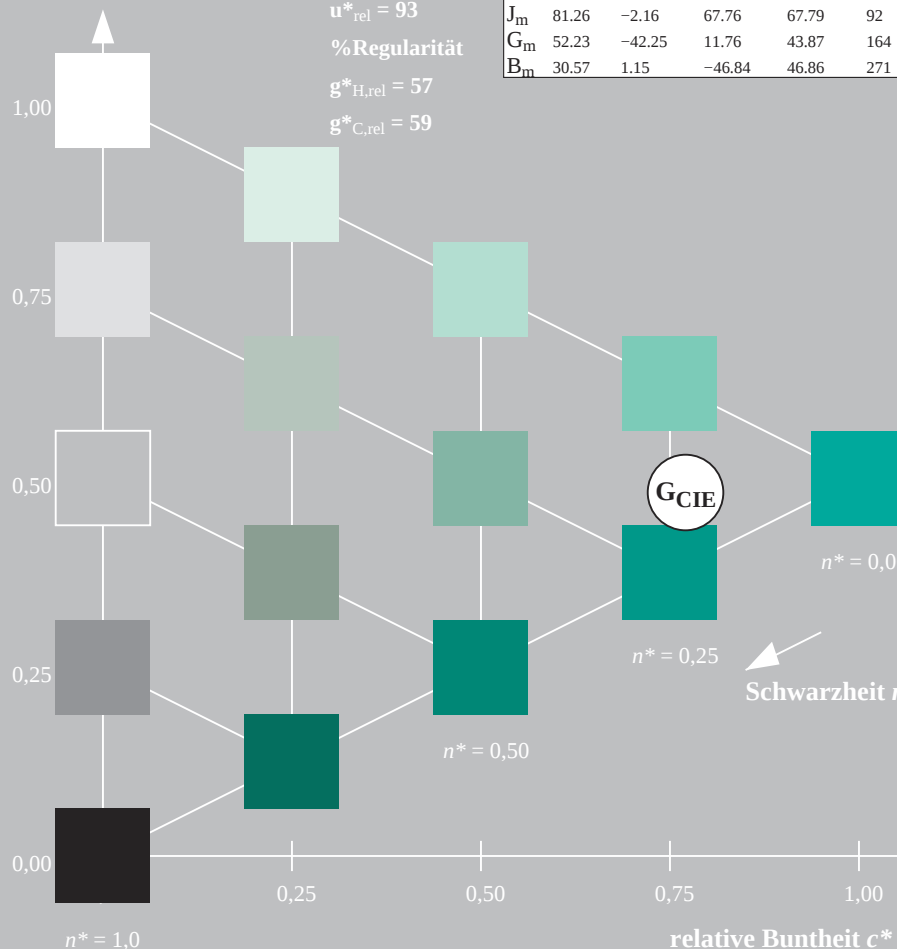
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

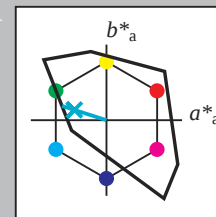


QG200-7, 5 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (links)

Ausgabe: Farbmimetrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 162/360 = 0.451$   
 $LAB^*LCH$ ,  $LAB^*NCH$

D65: Buntton G  
LCH\*Ma: 86 62 162  
olv\*Ma: 0.0 1.0 0.65



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

CIELAB-Helligkeit  $L^*$

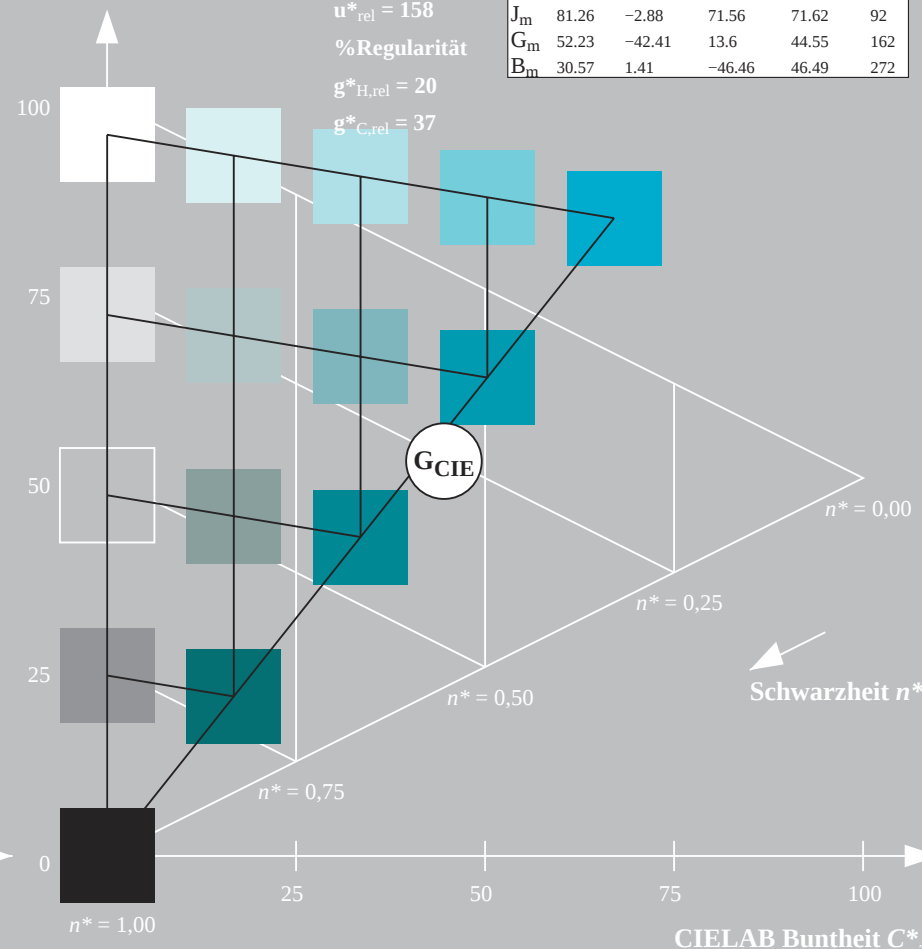
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



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

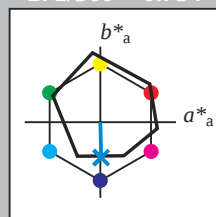
BAM-Prüfvorlage QG20; Farbmimetrik-Systeme ORS18 & TLS00 input:  $cmY0^* setcmykcolor$

D50: Koordinatensysteme; 5stufige Farbreihen für 10 Bunttöne output:  $cmY0^* / 000n^* setcmykcolor$

Eingabe: Farbmétrisches Offset-Reflektiv-System ORS18

für Buntton  $h^* = lab^*h = 271/360 = 0.754$   
 $lab^*tch$  und  $lab^*nch$

D65: Buntton B  
LCH\*Ma: 42 45 271  
olv\*Ma: 0.0 0.49 1.0



ORS18; adaptierte CIELAB-Daten

|                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|----------------|-------------|---------|---------|--------------|--------------|
| O <sub>m</sub> | 47.94       | 65.39   | 50.52   | 82.63        | 38           |
| Y <sub>m</sub> | 90.37       | -10.26  | 91.75   | 92.32        | 96           |
| L <sub>m</sub> | 50.9        | -62.83  | 34.96   | 71.91        | 151          |
| C <sub>m</sub> | 58.62       | -30.34  | -45.01  | 54.3         | 236          |
| V <sub>m</sub> | 25.72       | 31.1    | -44.4   | 54.22        | 305          |
| M <sub>m</sub> | 48.13       | 75.28   | -8.36   | 75.74        | 354          |
| N <sub>m</sub> | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>m</sub> | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>m</sub> | 39.92       | 58.66   | 26.98   | 64.57        | 25           |
| J <sub>m</sub> | 81.26       | -2.16   | 67.76   | 67.79        | 92           |
| G <sub>m</sub> | 52.23       | -42.25  | 11.76   | 43.87        | 164          |
| B <sub>m</sub> | 30.57       | 1.15    | -46.84  | 46.86        | 271          |

Dreiecks-Helligkeit  $t^*$

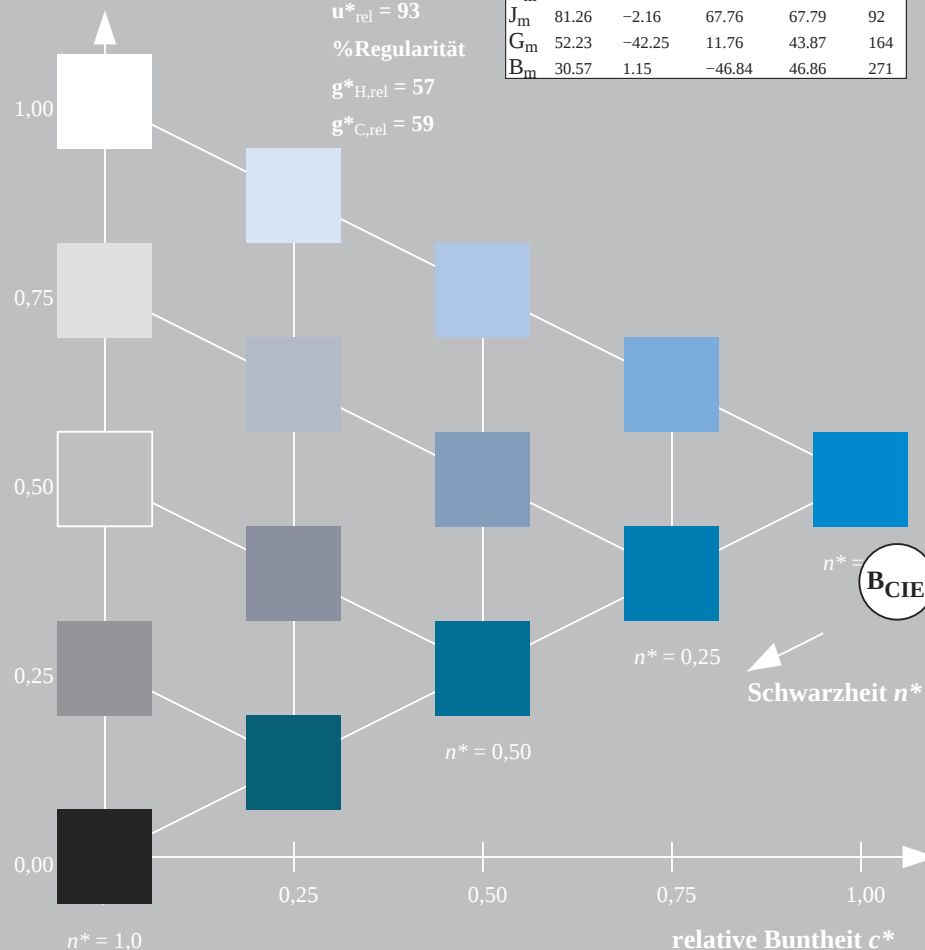
%Umfang

$u^*_{rel} = 93$

%Regularität

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

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

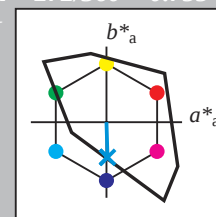


QG200-7, 5 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (links)

Ausgabe: Farbmétrisches Fernseh-Licht-System TLS00

für Buntton  $h^* = lab^*h = 272/360 = 0.755$   
 $LAB^*LCH$ ,  $LAB^*NCH$

D65: Buntton B  
LCH\*Ma: 65 49 272  
olv\*Ma: 0.0 0.61 1.0



TLS00; adaptierte CIELAB-Daten

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

CIELAB-Helligkeit  $L^*$

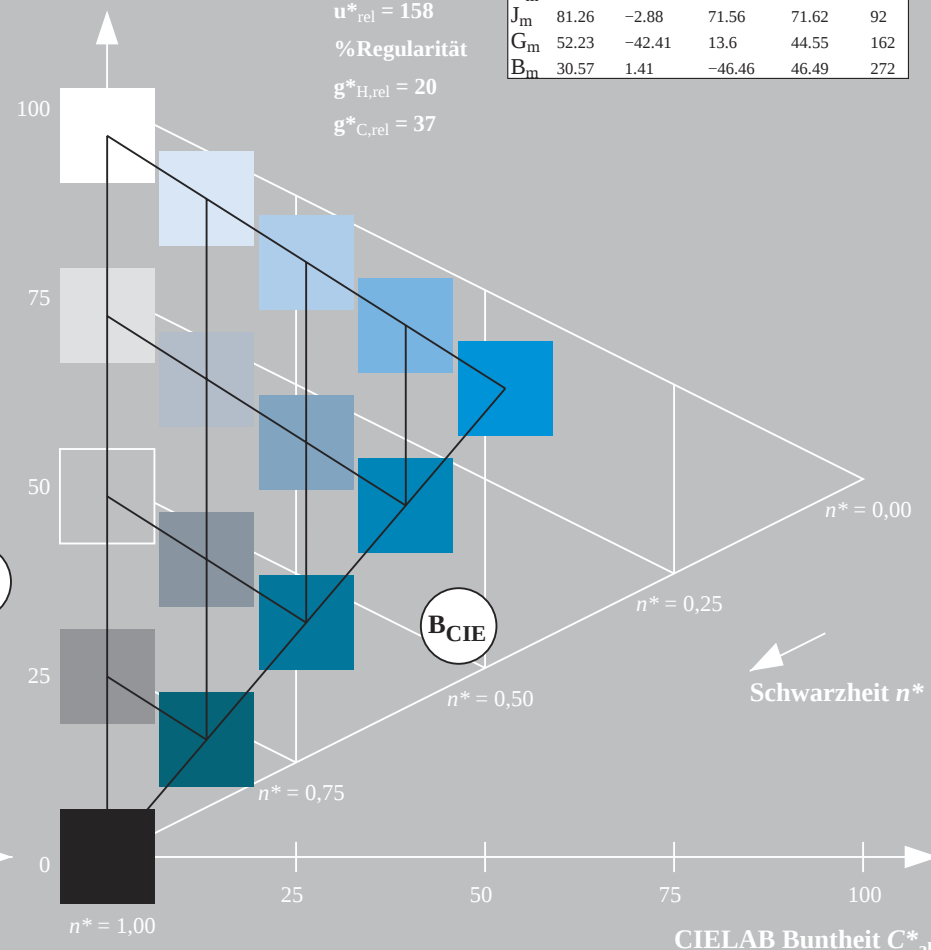
%Umfang

$u^*_{rel} = 158$

%Regularität

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

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



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

BAM-Prüfvorlage QG20; Farbmétrik-Systeme ORS18 & TLS00 input:  $cmY0^* setcmykcolor$

D50: Koordinatensysteme; 5stufige Farbreihen für 10 Bunttöne output:  $cmY0^* / 000n^* setcmykcolor$