

Eingabe: Farbmétrisches Reflexions-System NCS11

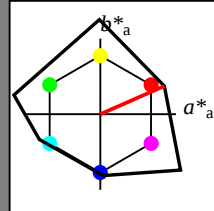
für Buntton  $h^* = lab^*h = 24/360 = 0.066$ 

LAB\*LCH, LAB\*NCH

D65: Buntton R

LCH\*Ma: 47 92 24

olv\*Ma: 1.0 0.0 0.0



NCS11; adaptierte CIELAB-Daten

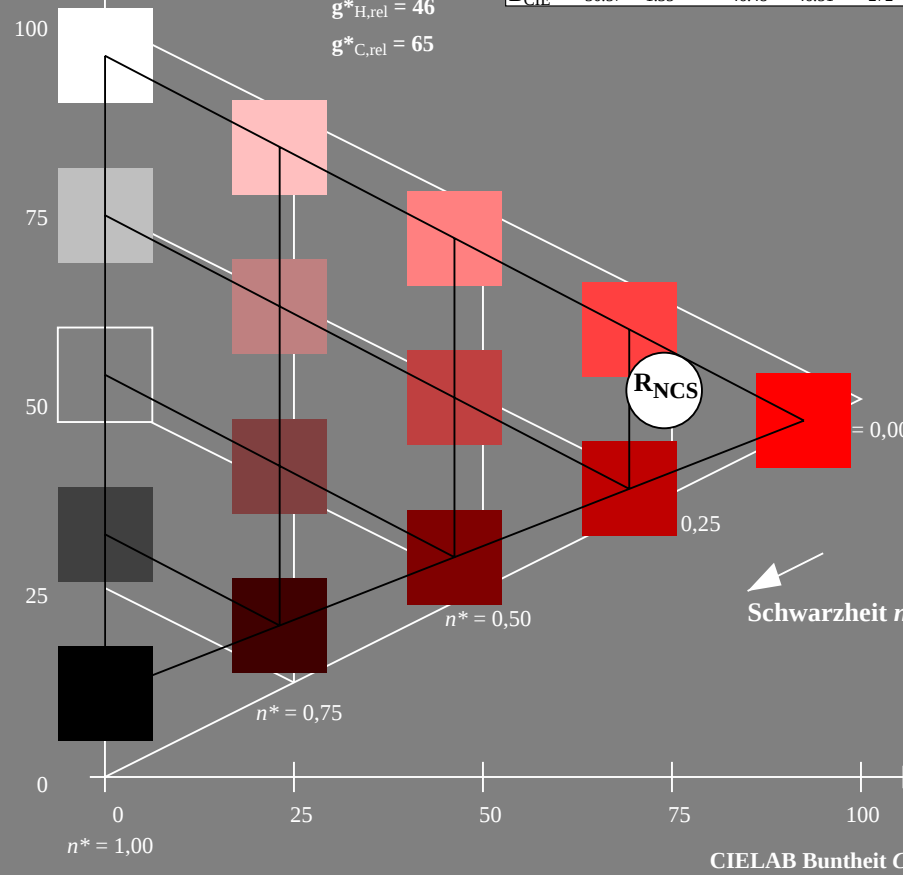
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| J <sub>Ma</sub>    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| G <sub>Ma</sub>    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 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       | 58.69   | 27.98   | 65.01        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 149$ 

%Regularität

 $g^*_{H,rel} = 46$  $g^*_{C,rel} = 65$ 

TG380-7, 5 stufige Reihen für konstanten CIELAB Buntton 24/360 = 0.066 (links)

Ausgabe: Farbmétrisches Reflexions-System MRS18

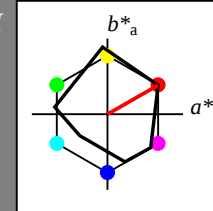
für Buntton  $h^* = lab^*h = 30/360 = 0.083$ 

LAB\*LCH, LAB\*NCH

D65: Buntton R

LCH\*Ma: 50 77 30

olv\*Ma: 1.0 0.0 0.0



MRS18; adaptierte CIELAB-Daten

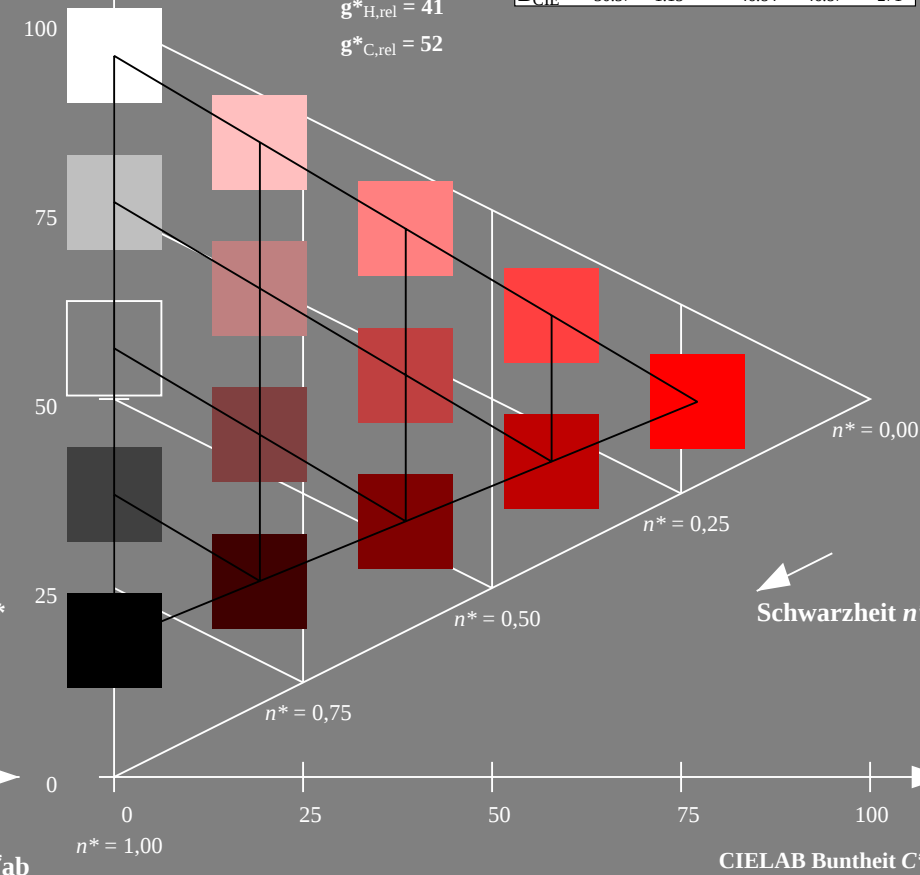
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 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       | 58.66   | 26.98   | 64.56        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 91$ 

%Regularität

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

5 stufige Reihen für konstanten CIELAB Buntton 30/360 = 0.083 (rechts)

BAM-Prüfvorlage TG38; Farbmétrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: Koordinaten-Systeme von 5stufigen Farbreihen für 10 Buntton input: Startup (S) data dependant

Eingabe: Farbmétrisches Reflexions-System NCS11

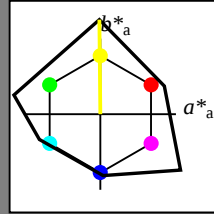
für Buntton  $h^* = lab^*h = 91/360 = 0.252$ 

LAB\*LCH, LAB\*NCH

D65: Buntton J

LCH\*Ma: 91 125 91

olv\*Ma: 1.0 1.0 0.0



NCS11; adaptierte CIELAB-Daten

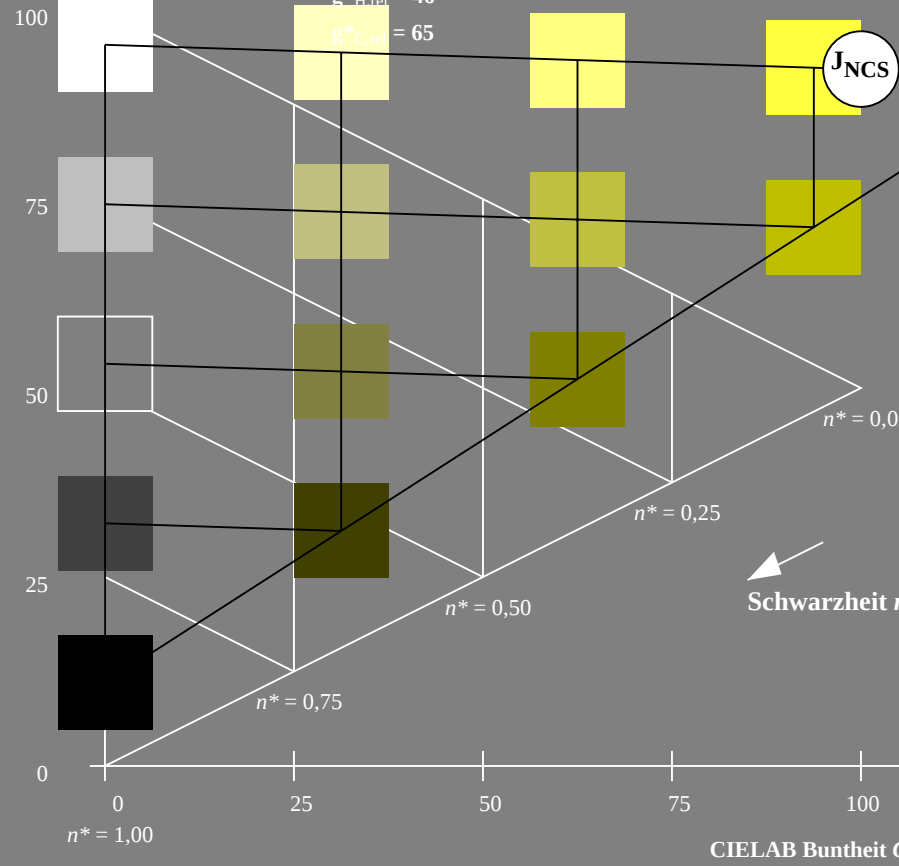
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| J <sub>Ma</sub>    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| G <sub>Ma</sub>    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 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       | 58.69   | 27.98   | 65.01        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 149$ 

%Regularität

 $g^*_{H,rel} = 46$  $g^*_{C,rel} = 65$ 

TG380-7, 5 stufige Reihen für konstanten CIELAB Buntton 91/360 = 0.252 (links)

BAM-Prüfvorlage TG38; Farbmétrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: Koordinaten-Systeme von 5stufigen Farbreihen für 10 Bunttoninput: Startup (S) data dependend

Ausgabe: Farbmétrisches Reflexions-System MRS18

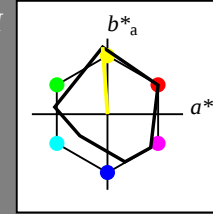
für Buntton  $h^* = lab^*h = 94/360 = 0.261$ 

LAB\*LCH, LAB\*NCH

D65: Buntton J

LCH\*Ma: 91 89 94

olv\*Ma: 1.0 1.0 0.0



MRS18; adaptierte CIELAB-Daten

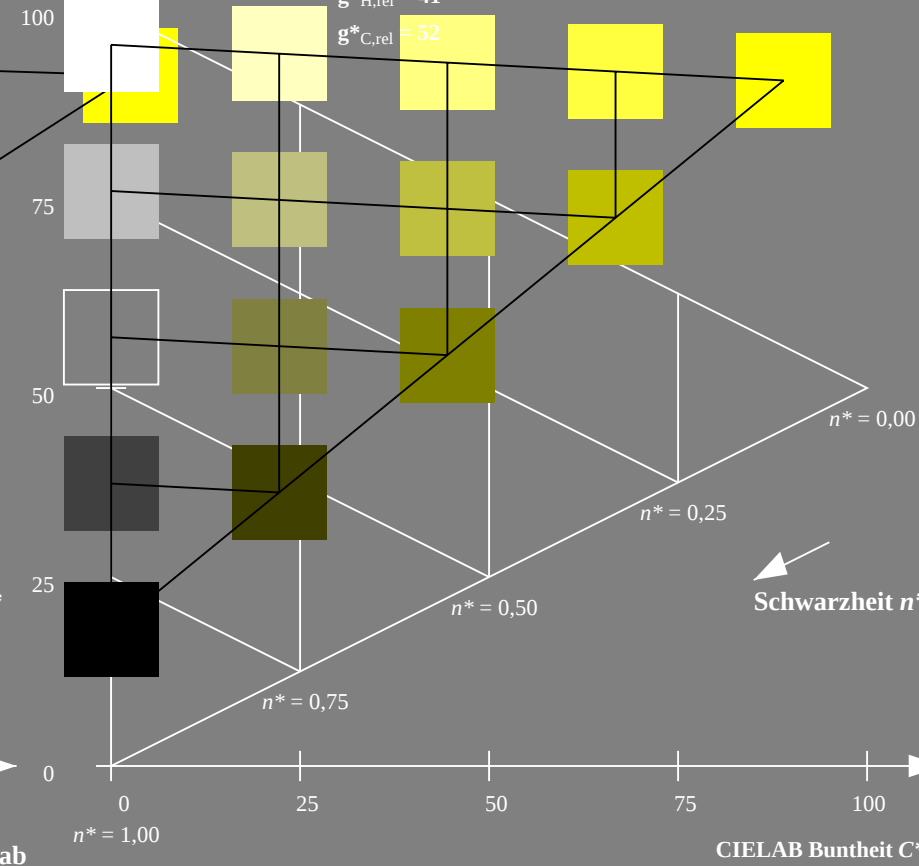
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 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       | 58.66   | 26.98   | 64.56        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 91$ 

%Regularität

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

5 stufige Reihen für konstanten CIELAB Buntton 94/360 = 0.261 (rechts)

Eingabe: Farbmimetrisches Reflexions-System NCS11

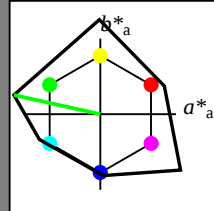
für Buntton  $h^* = lab^*h = 167/360 = 0.465$ 

LAB\*LCH, LAB\*NCH

D65: Buntton G

LCH\*Ma: 63 117 167

olv\*Ma: 0.0 1.0 0.0



NCS11; adaptierte CIELAB-Daten

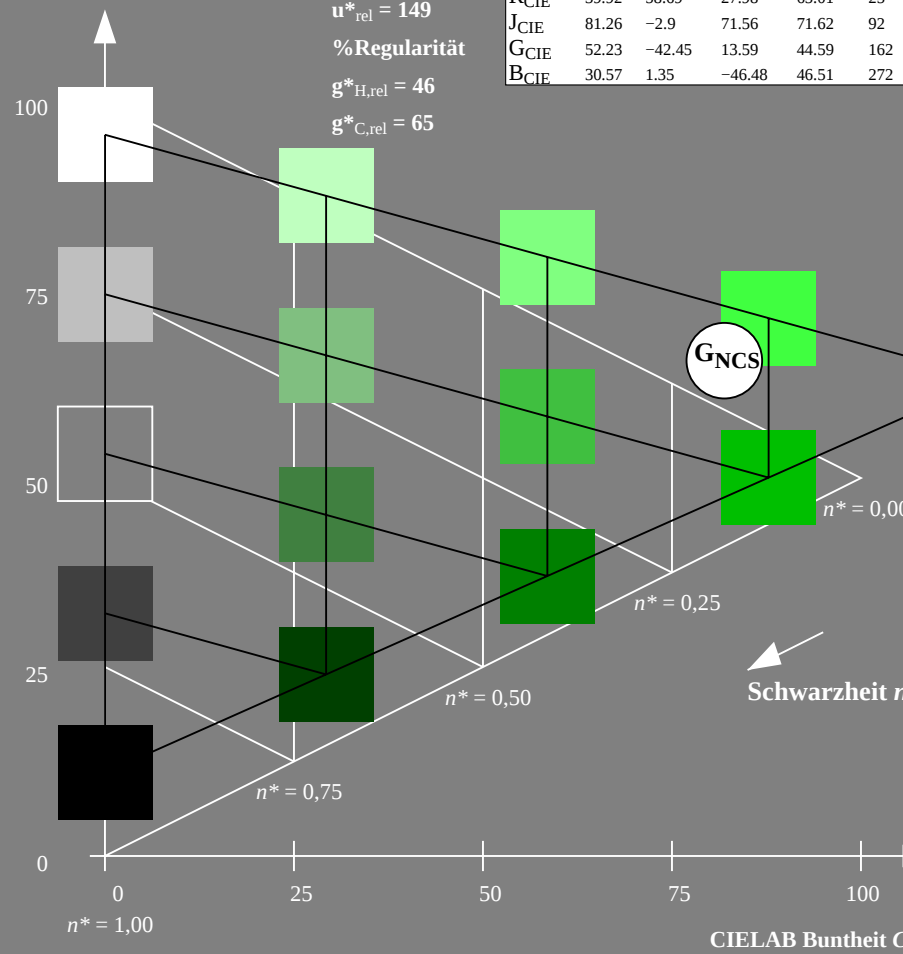
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| J <sub>Ma</sub>    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| G <sub>Ma</sub>    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 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       | 58.69   | 27.98   | 65.01        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 149$ 

%Regularität

 $g^*_{H,rel} = 46$  $g^*_{C,rel} = 65$ 

TG380-7, 5 stufige Reihen für konstanten CIELAB Buntton 167/360 = 0.465 (links)

Ausgabe: Farbmimetrisches Reflexions-System MRS18

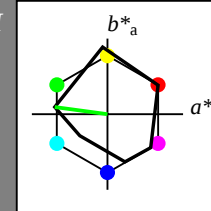
für Buntton  $h^* = lab^*h = 172/360 = 0.479$ 

LAB\*LCH, LAB\*NCH

D65: Buntton G

LCH\*Ma: 52 70 172

olv\*Ma: 0.0 1.0 0.0



MRS18; adaptierte CIELAB-Daten

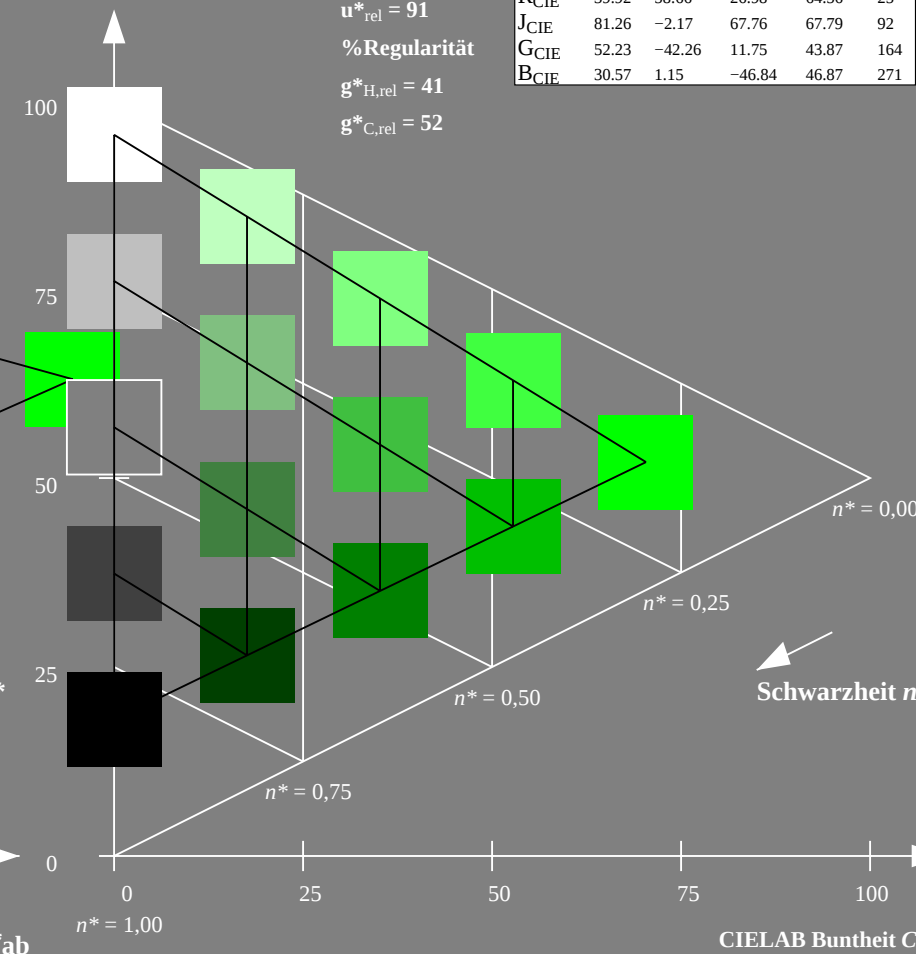
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 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       | 58.66   | 26.98   | 64.56        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 91$ 

%Regularität

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

5 stufige Reihen für konstanten CIELAB Buntton 172/360 = 0.479 (rechts)

BAM-Prüfvorlage TG38; Farbmimetrische Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: Koordinaten-Systeme von 5stufigen Farbreihen für 10 Buntton input: Startup (S) data dependant

Eingabe: Farbmimetrisches Reflexions-System NCS11

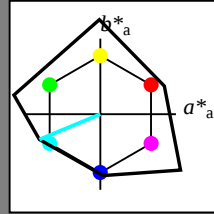
für Buntton  $h^* = lab \cdot h = 203/360 = 0.563$ 

LAB\*LCH, LAB\*NCH

D65: Buntton G50B

LCH\*Ma: 59 87 203

olv\*Ma: 0.0 1.0 1.0

CIELAB-Helligkeit  $L^*$ 

%Umfang

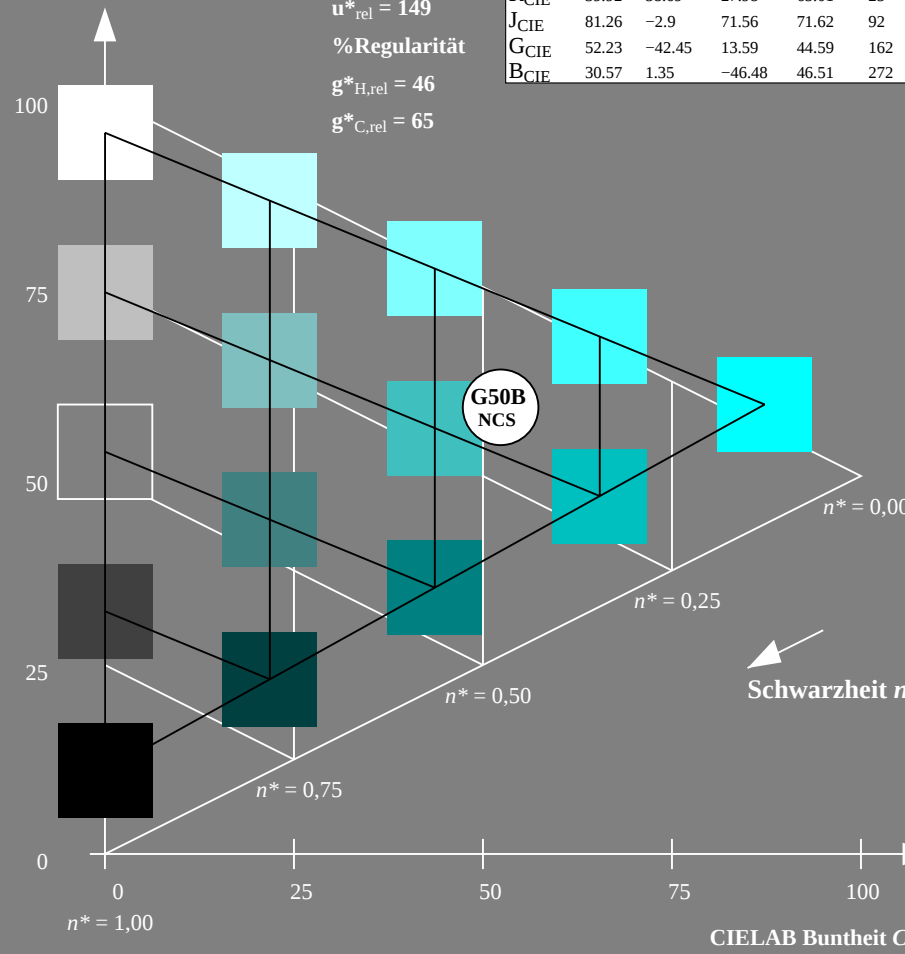
 $u^*_{rel} = 149$ 

%Regularität

 $g^*_{H,rel} = 46$  $g^*_{C,rel} = 65$ 

NCS11; adaptierte CIELAB-Daten

|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| J <sub>Ma</sub>    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| G <sub>Ma</sub>    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 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       | 58.69   | 27.98   | 65.01        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |



TG380-7, 5 stufige Reihen für konstanten CIELAB Buntton 203/360 = 0.563 (links)

BAM-Prüfvorlage TG38; Farbmimetrische Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: Koordinaten-Systeme von 5stufigen Farbreihen für 10 Bunttoninput: Startup (S) data dependend

Ausgabe: Farbmimetrisches Reflexions-System MRS18

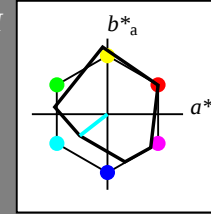
für Buntton  $h^* = lab \cdot h = 218/360 = 0.605$ 

LAB\*LCH, LAB\*NCH

D65: Buntton G50B

LCH\*Ma: 45 46 218

olv\*Ma: 0.0 1.0 1.0

CIELAB-Helligkeit  $L^*$ 

%Umfang

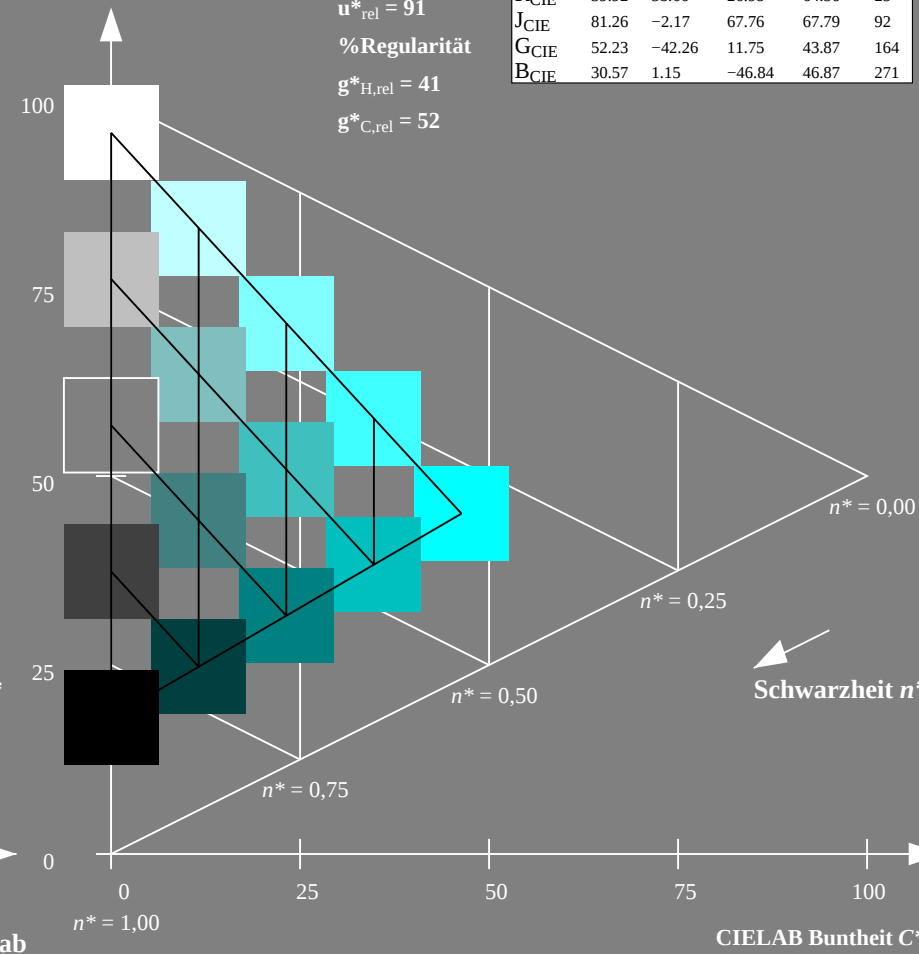
 $u^*_{rel} = 91$ 

%Regularität

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

MRS18; adaptierte CIELAB-Daten

|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 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       | 58.66   | 26.98   | 64.56        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |



5 stufige Reihen für konstanten CIELAB Buntton 218/360 = 0.605 (rechts)

Eingabe: Farbmétrisches Reflexions-System NCS11

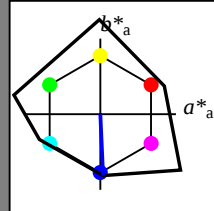
für Buntton  $h^* = lab^*h = 273/360 = 0.757$ 

LAB\*LCH, LAB\*NCH

D65: Buntton B

LCH\*Ma: 49 81 273

olv\*Ma: 0.0 0.0 1.0



NCS11; adaptierte CIELAB-Daten

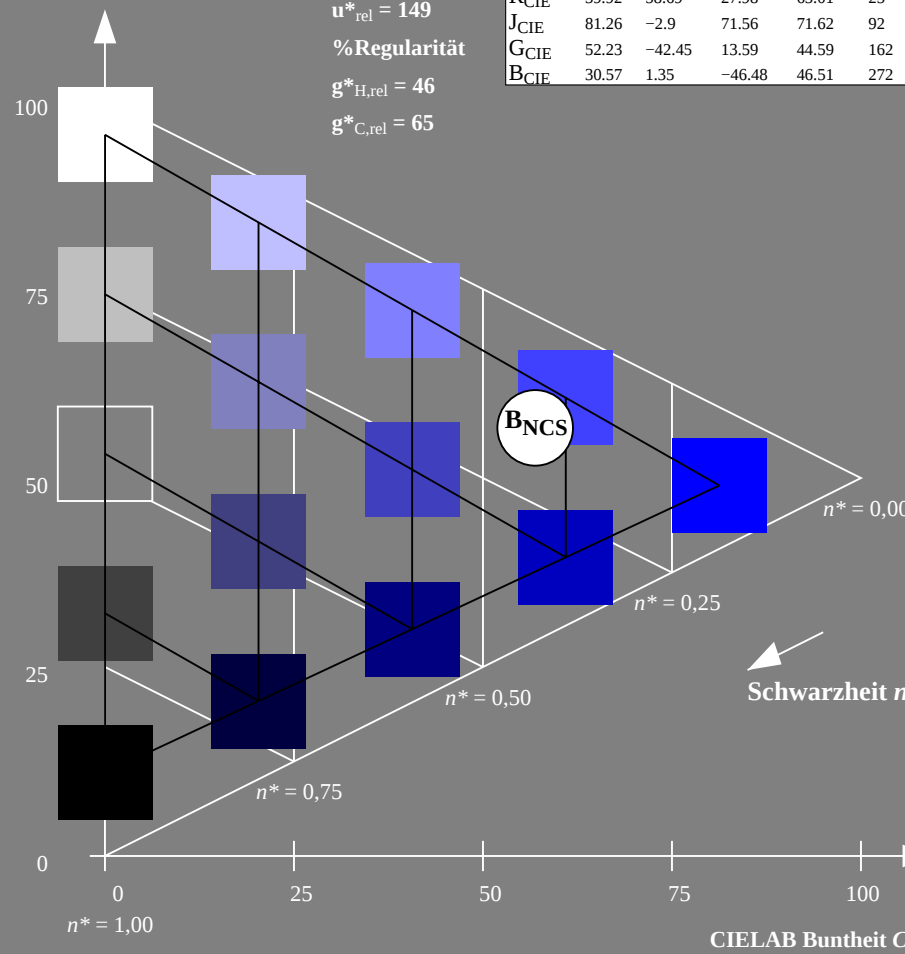
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| J <sub>Ma</sub>    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| G <sub>Ma</sub>    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 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       | 58.69   | 27.98   | 65.01        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 149$ 

%Regularität

 $g^*_{H,rel} = 46$  $g^*_{C,rel} = 65$ 

TG380-7, 5 stufige Reihen für konstanten CIELAB Buntton 273/360 = 0.757 (links)

Ausgabe: Farbmétrisches Reflexions-System MRS18

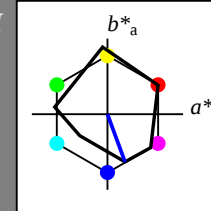
für Buntton  $h^* = lab^*h = 290/360 = 0.806$ 

LAB\*LCH, LAB\*NCH

D65: Buntton B

LCH\*Ma: 37 67 290

olv\*Ma: 0.0 0.0 1.0



MRS18; adaptierte CIELAB-Daten

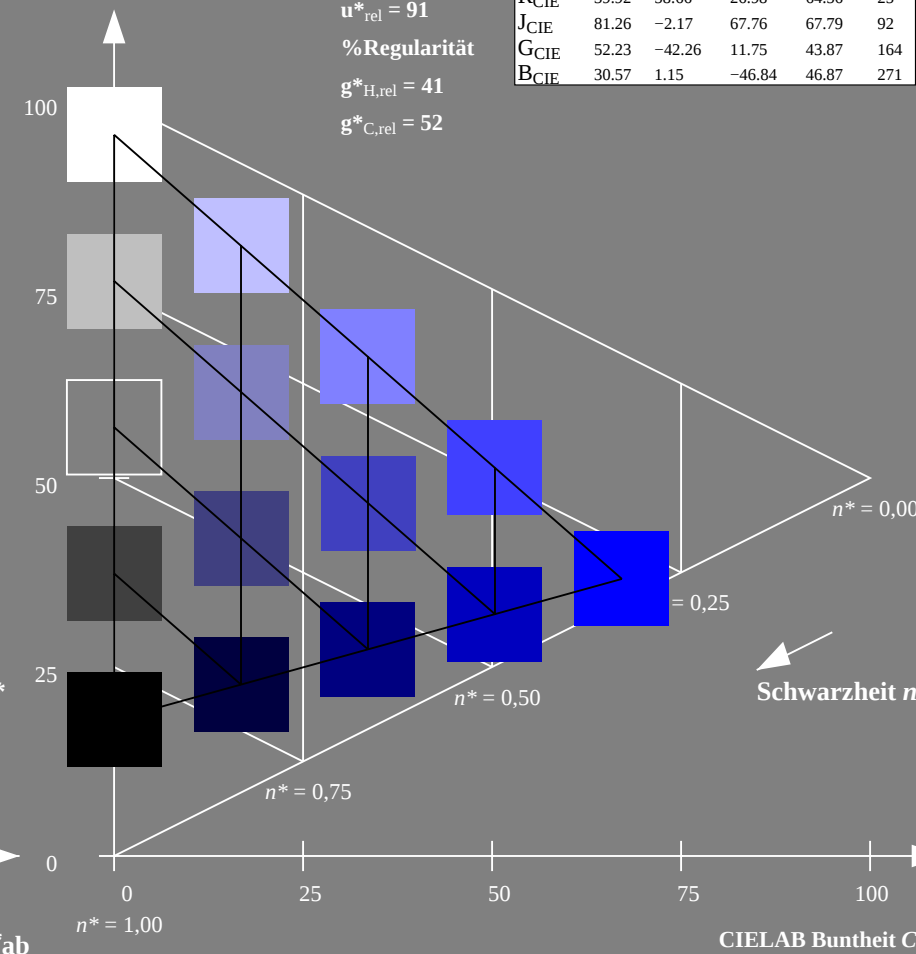
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 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       | 58.66   | 26.98   | 64.56        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 91$ 

%Regularität

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

5 stufige Reihen für konstanten CIELAB Buntton 290/360 = 0.806 (rechts)

BAM-Prüfvorlage TG38; Farbmétrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: Koordinaten-Systeme von 5stufigen Farbreihen für 10 Buntton input: Startup (S) data dependant

Eingabe: Farbmimetrisches Reflexions-System NCS11

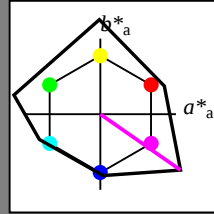
für Buntton  $h^* = lab^*h = 325/360 = 0.903$ 

LAB\*LCH, LAB\*NCH

D65: Buntton B50R

LCH\*Ma: 44 129 325

olv\*Ma: 1.0 0.0 1.0



NCS11; adaptierte CIELAB-Daten

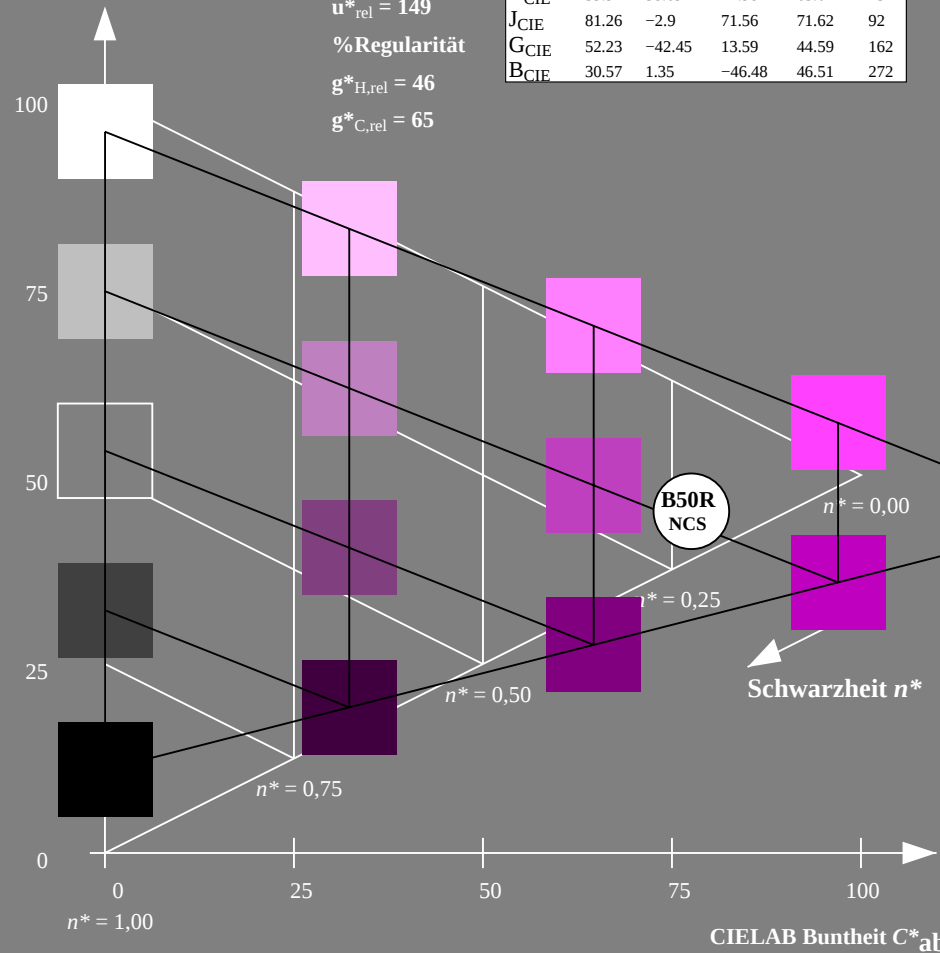
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| J <sub>Ma</sub>    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| G <sub>Ma</sub>    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 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       | 58.69   | 27.98   | 65.01        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 149$ 

%Regularität

 $g^*_{H,rel} = 46$  $g^*_{C,rel} = 65$ 

TG380-7, 5 stufige Reihen für konstanten CIELAB Buntton 325/360 = 0.903 (links)

BAM-Prüfvorlage TG38; Farbmimetrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: Koordinaten-Systeme von 5stufigen Farbreihen für 10 Bunttoninput: Startup (S) data dependant

Ausgabe: Farbmimetrisches Reflexions-System MRS18

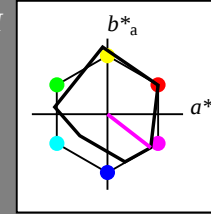
für Buntton  $h^* = lab^*h = 322/360 = 0.895$ 

LAB\*LCH, LAB\*NCH

D65: Buntton B50R

LCH\*Ma: 35 72 322

olv\*Ma: 1.0 0.0 1.0



MRS18; adaptierte CIELAB-Daten

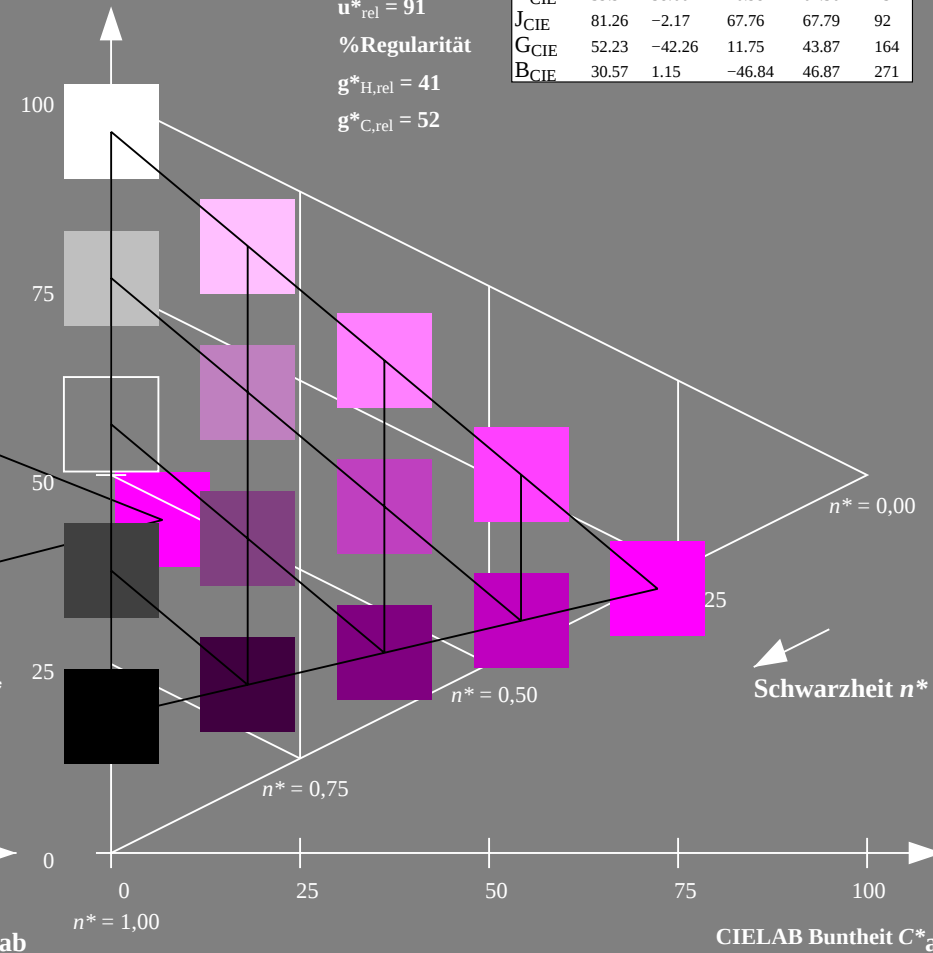
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 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       | 58.66   | 26.98   | 64.56        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 91$ 

%Regularität

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

5 stufige Reihen für konstanten CIELAB Buntton 322/360 = 0.895 (rechts)

Eingabe: Farbmétrisches Reflexions-System NCS11

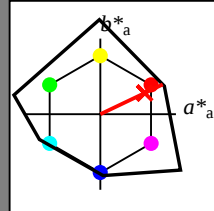
für Buntton  $h^* = lab^*h = 25/360 = 0.071$ 

LAB\*LCH, LAB\*NCH

D65: Buntton R

LCH\*Ma: 48 91 25

olv\*Ma: 1.0 0.02 0.0



NCS11; adaptierte CIELAB-Daten

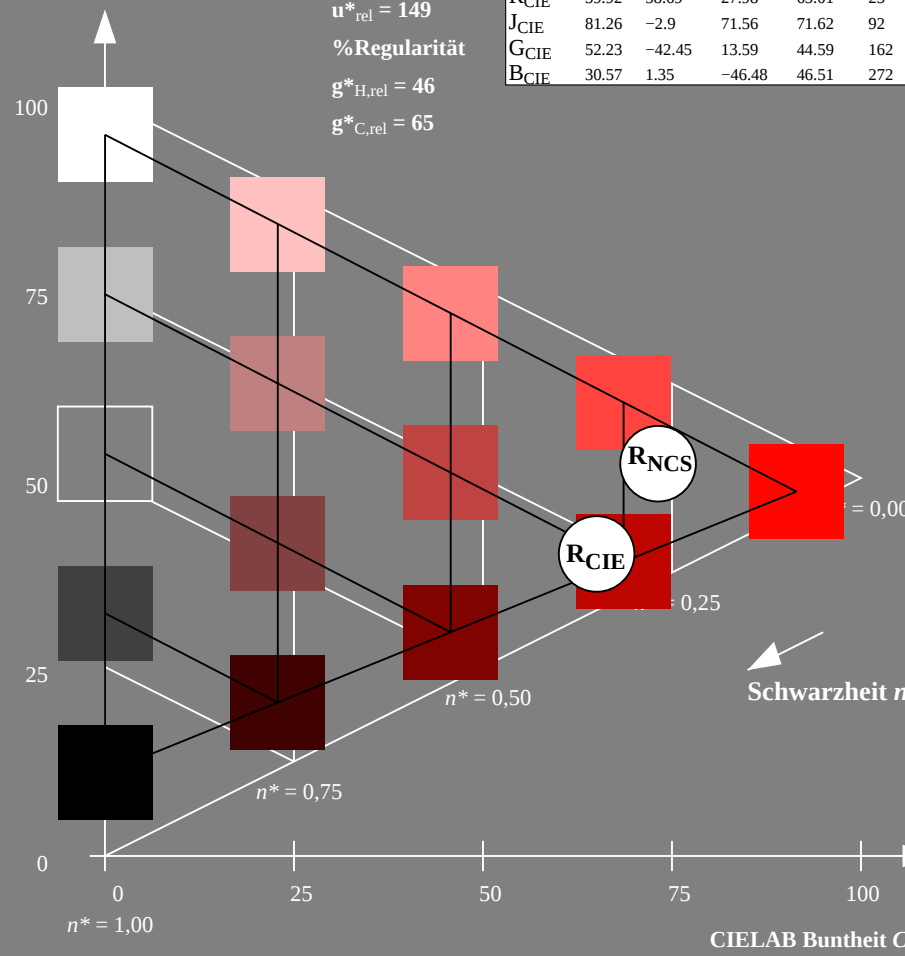
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| J <sub>Ma</sub>    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| G <sub>Ma</sub>    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 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       | 58.69   | 27.98   | 65.01        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 149$ 

%Regularität

 $g^*_{H,rel} = 46$  $g^*_{C,rel} = 65$ 

TG380-7, 5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)

Ausgabe: Farbmétrisches Reflexions-System MRS18

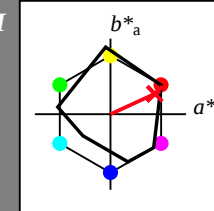
für Buntton  $h^* = lab^*h = 25/360 = 0.069$ 

LAB\*LCH, LAB\*NCH

D65: Buntton R

LCH\*Ma: 48 73 25

olv\*Ma: 1.0 0.0 0.1



MRS18; adaptierte CIELAB-Daten

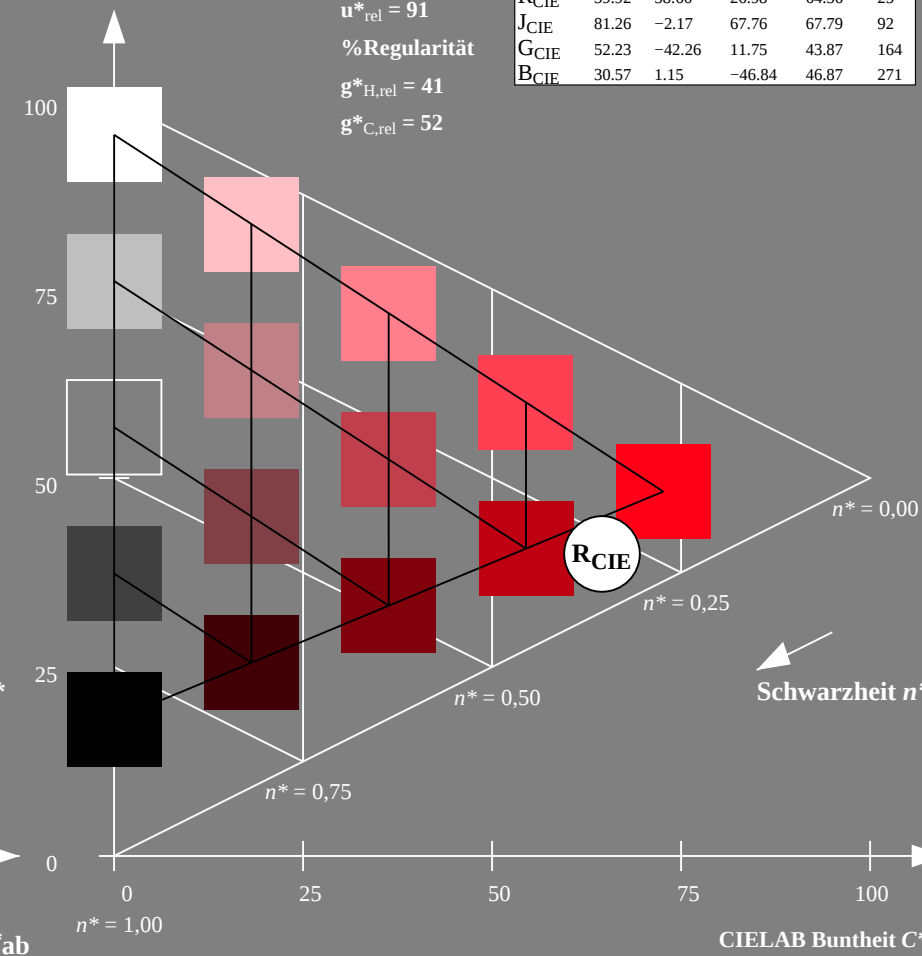
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 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       | 58.66   | 26.98   | 64.56        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 91$ 

%Regularität

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

5 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.069 (rechts)

BAM-Prüfvorlage TG38; Farbmétrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: Koordinaten-Systeme von 5stufigen Farbreihen für 10 Bunttoninput: Startup (S) data dependant

Eingabe: Farbmimetrisches Reflexions-System NCS11

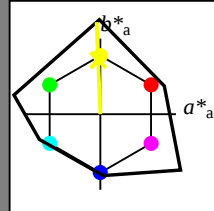
für Buntton  $h^* = lab \cdot h = 92/360 = 0.256$ 

LAB\*LCH, LAB\*NCH

D65: Buntton J

LCH\*Ma: 90 122 92

olv\*Ma: 0.97 1.0 0.0



NCS11; adaptierte CIELAB-Daten

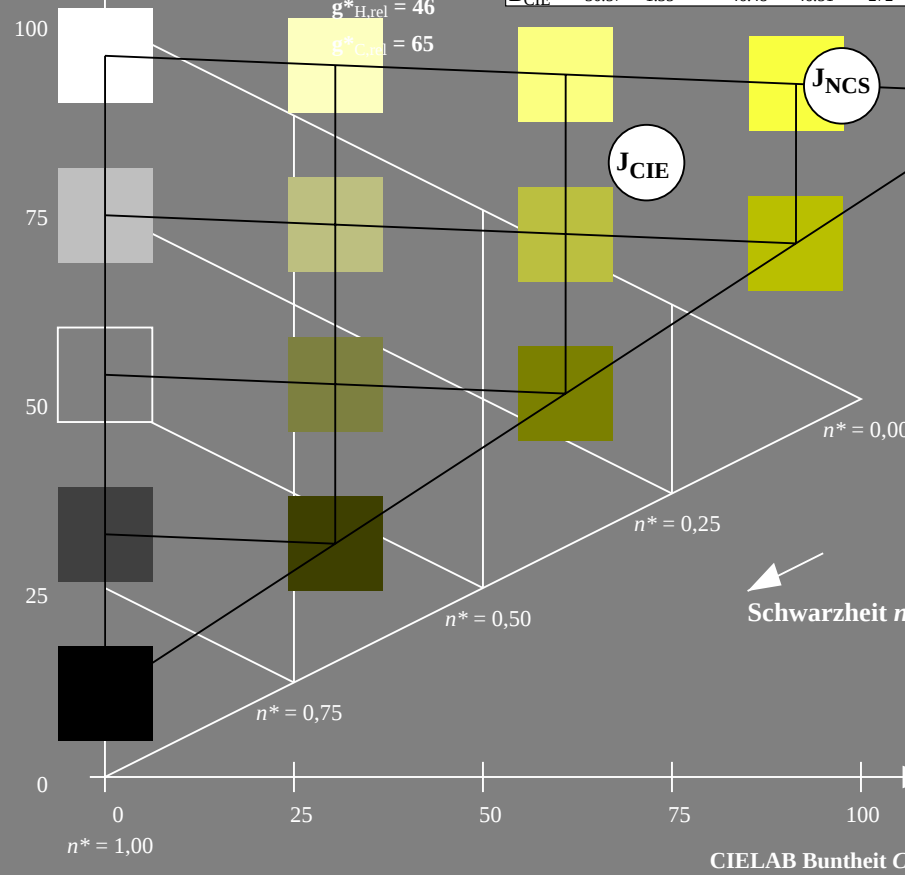
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| J <sub>Ma</sub>    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| G <sub>Ma</sub>    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 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       | 58.69   | 27.98   | 65.01        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 149$ 

%Regularität

 $g^*_{H,rel} = 46$  $g^*_{C,rel} = 65$ 

TG380-7, 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

Ausgabe: Farbmimetrisches Reflexions-System MRS18

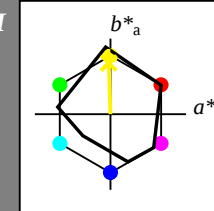
für Buntton  $h^* = lab \cdot h = 92/360 = 0.255$ 

LAB\*LCH, LAB\*NCH

D65: Buntton J

LCH\*Ma: 89 86 92

olv\*Ma: 1.0 0.95 0.0



MRS18; adaptierte CIELAB-Daten

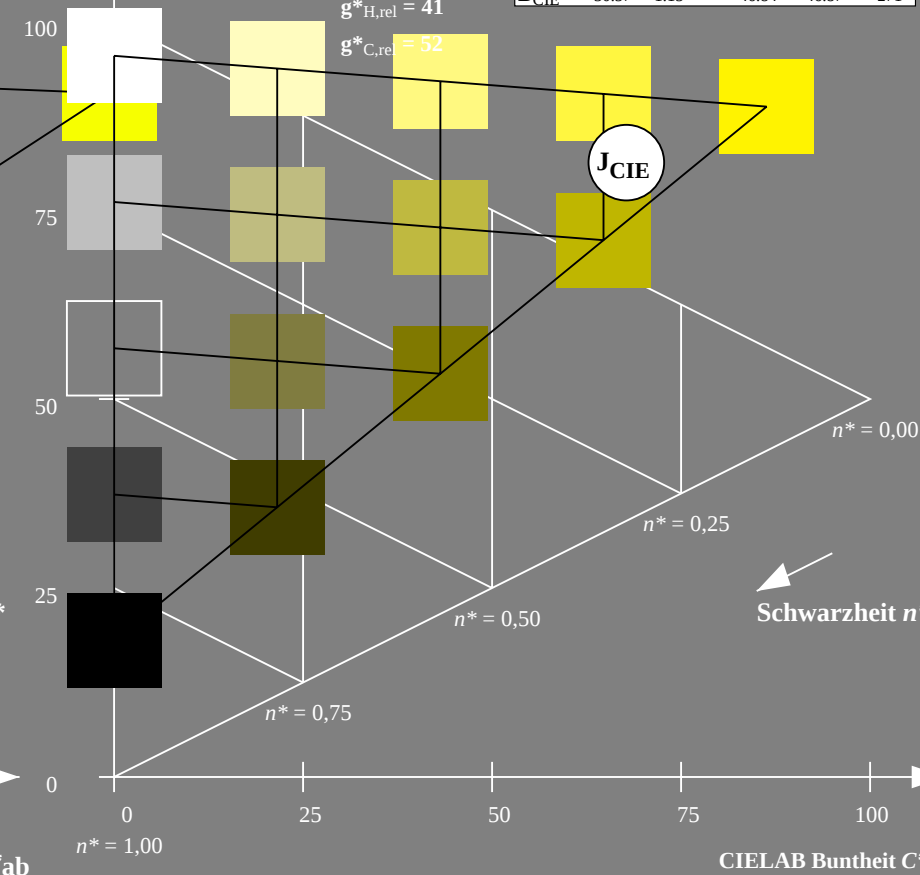
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 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       | 58.66   | 26.98   | 64.56        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 91$ 

%Regularität

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.255 (rechts)

BAM-Prüfvorlage TG38; Farbmimetrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: Koordinaten-Systeme von 5stufigen Farbreihen für 10 Bunttoninput: Startup (S) data dependant

Eingabe: Farbmétrisches Reflexions-System NCS11

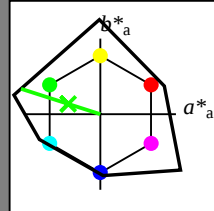
für Buntton  $h^* = lab \cdot h = 162/360 = 0.451$ 

LAB\*LCH, LAB\*NCH

D65: Buntton G

LCH\*Ma: 65 110 162

olv\*Ma: 0.08 1.0 0.0



NCS11; adaptierte CIELAB-Daten

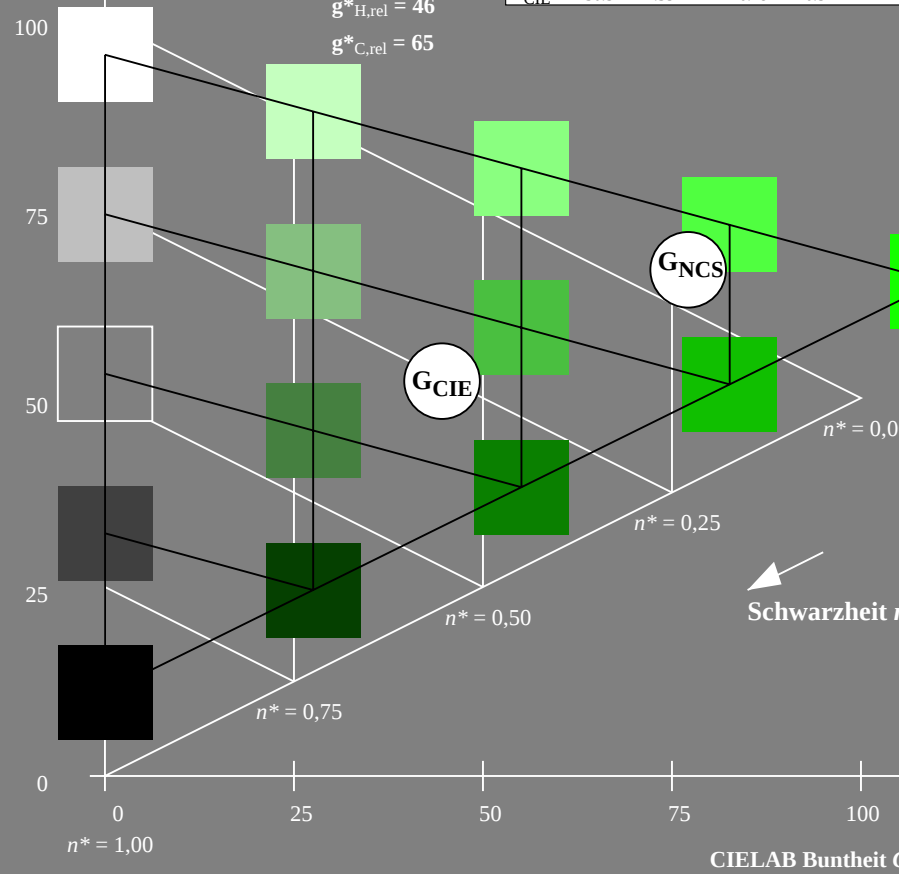
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| J <sub>Ma</sub>    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| G <sub>Ma</sub>    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 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       | 58.69   | 27.98   | 65.01        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 149$ 

%Regularität

 $g^*_{H,rel} = 46$  $g^*_{C,rel} = 65$ 

TG380-7, 5 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

Ausgabe: Farbmétrisches Reflexions-System MRS18

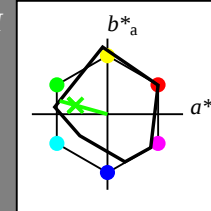
für Buntton  $h^* = lab \cdot h = 164/360 = 0.457$ 

LAB\*LCH, LAB\*NCH

D65: Buntton G

LCH\*Ma: 56 66 164

olv\*Ma: 0.1 1.0 0.0



MRS18; adaptierte CIELAB-Daten

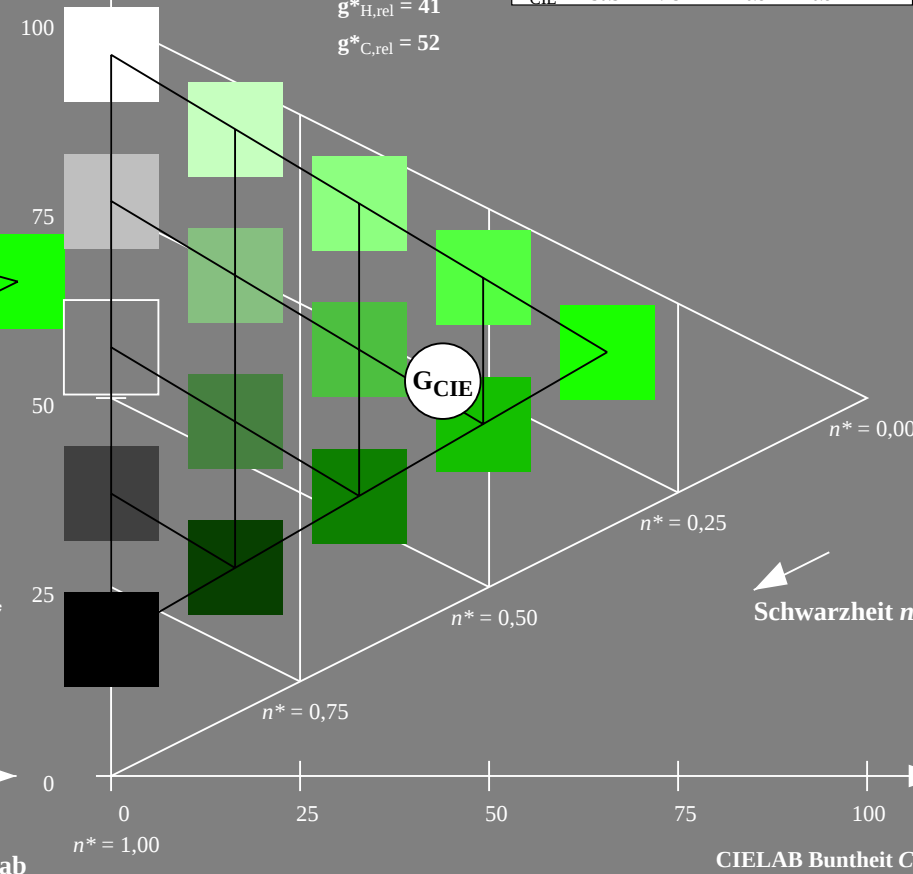
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 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       | 58.66   | 26.98   | 64.56        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 91$ 

%Regularität

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

5 stufige Reihen für konstanten CIELAB Buntton 164/360 = 0.457 (rechts)

BAM-Prüfvorlage TG38; Farbmétrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: Koordinaten-Systeme von 5stufigen Farbreihen für 10 Bunttoninput: Startup (S) data dependant

Eingabe: Farbmimetrisches Reflexions-System NCS11

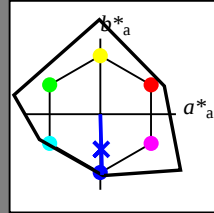
für Buntton  $h^* = lab^*h = 272/360 = 0.755$ 

LAB\*LCH, LAB\*NCH

D65: Buntton B

LCH\*Ma: 49 80 272

olv\*Ma: 0.0 0.02 1.0



NCS11; adaptierte CIELAB-Daten

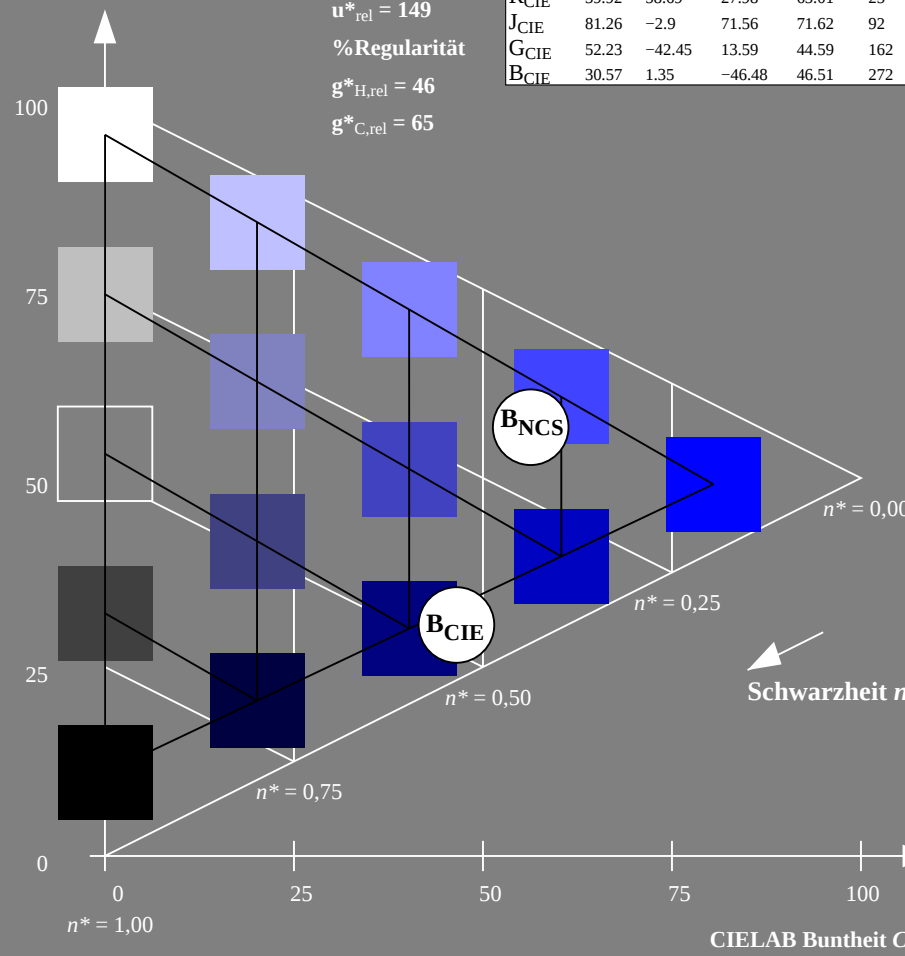
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 47.15       | 84.64   | 37.25   | 92.48        | 24           |
| J <sub>Ma</sub>    | 91.37       | -1.27   | 125.03  | 125.03       | 91           |
| G <sub>Ma</sub>    | 63.07       | -114.28 | 25.35   | 117.06       | 167          |
| G50B <sub>Ma</sub> | 59.47       | -80.6   | -33.45  | 87.28        | 203          |
| B <sub>Ma</sub>    | 49.01       | 3.65    | -81.19  | 81.28        | 273          |
| B50R <sub>Ma</sub> | 44.06       | 106.09  | -73.93  | 129.32       | 325          |
| N <sub>Ma</sub>    | 10.99       | 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       | 58.69   | 27.98   | 65.01        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.9    | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.45  | 13.59   | 44.59        | 162          |
| B <sub>CIE</sub>   | 30.57       | 1.35    | -46.48  | 46.51        | 272          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 149$ 

%Regularität

 $g^*_{H,rel} = 46$  $g^*_{C,rel} = 65$ 

TG380-7, 5 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)

BAM-Prüfvorlage TG38; Farbmimetrik-Systeme ORS18 &amp; ORS18 input: olv\* setrgbcolor

D65: Koordinaten-Systeme von 5stufigen Farbreihen für 10 Bunttoninput: Startup (S) data dependend

Ausgabe: Farbmimetrisches Reflexions-System MRS18

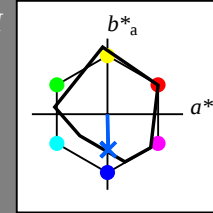
für Buntton  $h^* = lab^*h = 271/360 = 0.754$ 

LAB\*LCH, LAB\*NCH

D65: Buntton B

LCH\*Ma: 40 50 271

olv\*Ma: 0.0 0.37 1.0



MRS18; adaptierte CIELAB-Daten

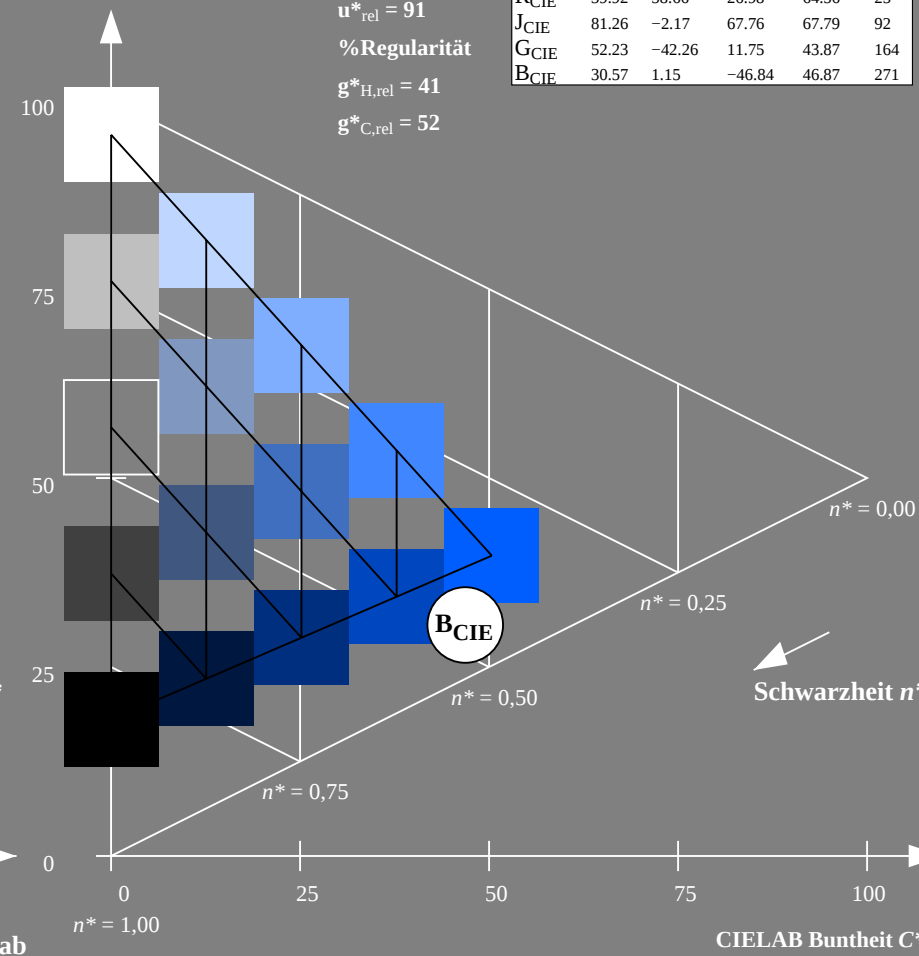
|                    | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------------------|-------------|---------|---------|--------------|--------------|
| R <sub>Ma</sub>    | 49.63       | 66.96   | 38.37   | 77.18        | 30           |
| J <sub>Ma</sub>    | 90.7        | -6.36   | 88.75   | 88.98        | 94           |
| G <sub>Ma</sub>    | 52.11       | -69.73  | 9.44    | 70.37        | 172          |
| G50B <sub>Ma</sub> | 45.03       | -36.57  | -28.47  | 46.36        | 218          |
| B <sub>Ma</sub>    | 36.65       | 23.19   | -63.05  | 67.18        | 290          |
| B50R <sub>Ma</sub> | 34.94       | 57.17   | -44.26  | 72.31        | 322          |
| N <sub>Ma</sub>    | 18.01       | 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       | 58.66   | 26.98   | 64.56        | 25           |
| J <sub>CIE</sub>   | 81.26       | -2.17   | 67.76   | 67.79        | 92           |
| G <sub>CIE</sub>   | 52.23       | -42.26  | 11.75   | 43.87        | 164          |
| B <sub>CIE</sub>   | 30.57       | 1.15    | -46.84  | 46.87        | 271          |

CIELAB-Helligkeit  $L^*$ 

%Umfang

 $u^*_{rel} = 91$ 

%Regularität

 $g^*_{H,rel} = 41$  $g^*_{C,rel} = 52$ 

5 stufige Reihen für konstanten CIELAB Buntton 271/360 = 0.754 (rechts)