

## Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 35/360 = 0.097$

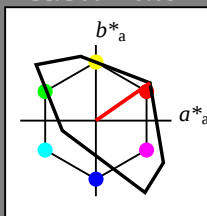
$lab^*ch$  und  $lab^*nch$

D65: Buntton O

LCH\*Ma: 53 87 35

olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$



$u^*_{rel} = 118$

relative Inform. Technology (IT)

|         |     |     |     |       |
|---------|-----|-----|-----|-------|
| olv3*   | 1.0 | 1.0 | 1.0 | (1.0) |
| olv4*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv5*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv6*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv7*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv8*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv9*   | 0.0 | 0.0 | 0.0 | (0.0) |
| olv10*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv11*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv12*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv13*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv14*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv15*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv16*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv17*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv18*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv19*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv20*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv21*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv22*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv23*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv24*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv25*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv26*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv27*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv28*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv29*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv30*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv31*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv32*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv33*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv34*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv35*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv36*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv37*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv38*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv39*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv40*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv41*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv42*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv43*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv44*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv45*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv46*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv47*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv48*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv49*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv50*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv51*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv52*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv53*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv54*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv55*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv56*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv57*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv58*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv59*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv60*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv61*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv62*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv63*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv64*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv65*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv66*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv67*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv68*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv69*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv70*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv71*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv72*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv73*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv74*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv75*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv76*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv77*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv78*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv79*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv80*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv81*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv82*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv83*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv84*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv85*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv86*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv87*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv88*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv89*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv90*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv91*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv92*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv93*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv94*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv95*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv96*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv97*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv98*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv99*  | 0.0 | 0.0 | 0.0 | (0.0) |
| olv100* | 0.0 | 0.0 | 0.0 | (0.0) |

relative Inform. Technology (IT)

|         |     |      |      |       |
|---------|-----|------|------|-------|
| olv3*   | 1.0 | 0.75 | 0.75 | (1.0) |
| olv4*   | 0.0 | 0.75 | 0.75 | (1.0) |
| olv5*   | 0.0 | 0.75 | 0.75 | (1.0) |
| olv6*   | 0.0 | 0.75 | 0.75 | (1.0) |
| olv7*   | 0.0 | 0.75 | 0.75 | (1.0) |
| olv8*   | 0.0 | 0.75 | 0.75 | (1.0) |
| olv9*   | 0.0 | 0.75 | 0.75 | (1.0) |
| olv10*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv11*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv12*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv13*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv14*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv15*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv16*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv17*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv18*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv19*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv20*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv21*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv22*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv23*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv24*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv25*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv26*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv27*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv28*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv29*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv30*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv31*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv32*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv33*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv34*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv35*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv36*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv37*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv38*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv39*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv40*  | 0.0 | 0.75 | 0.75 | (1.0) |
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| olv42*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv43*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv44*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv45*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv46*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv47*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv48*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv49*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv50*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv51*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv52*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv53*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv54*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv55*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv56*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv57*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv58*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv59*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv60*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv61*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv62*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv63*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv64*  | 0.0 | 0.75 | 0.75 | (1.0) |
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| olv66*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv67*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv68*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv69*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv70*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv71*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv72*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv73*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv74*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv75*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv76*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv77*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv78*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv79*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv80*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv81*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv82*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv83*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv84*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv85*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv86*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv87*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv88*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv89*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv90*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv91*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv92*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv93*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv94*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv95*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv96*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv97*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv98*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv99*  | 0.0 | 0.75 | 0.75 | (1.0) |
| olv100* | 0.0 | 0.75 | 0.75 | (1.0) |

**relative CIELAB Lab\***

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lab | 0.612 | 0.205 | 0.143 |
| lab*ch  | 0.625 | 0.25  | 0.097 |
| lab*nch | 0.25  | 0.25  | 0.097 |

**relative Natural Colour (N)**

|         |       |      |       |
|---------|-------|------|-------|
| lab*nr  | 0.625 | 0.25 | 0.055 |
| lab*nc  | 0.625 | 0.25 | 0.035 |
| lab*nce | 0.25  | 0.25 | 0.141 |

**relative Inform. Technology (IT)**

|        |     |      |      |       |
|--------|-----|------|------|-------|
| olv3*  | 0.5 | 0.25 | 0.25 | (1.0) |
| cmyn3* | 0.5 | 0.75 | 0.75 | (0.0) |
| olv4*  | 0.0 | 0.75 | 0.75 | 0.5   |
| cmyn4* | 0.0 | 0.25 | 0.25 | 0.5   |

**standard and adapted CIELAB**

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 46.05 | 19.1  | 12.47 |
| LAB*LABa | 46.05 | 19.1  | 12.47 |
| LAB*LABb | 27.5  | 21.82 | 34.85 |

**relative CIE LAB Lab\***



ative Buntheit c

 $\dot{i}_0=1,1?$ 

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne      output: *Startup (S) data dependend*

## Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 196/360 = 0.546$

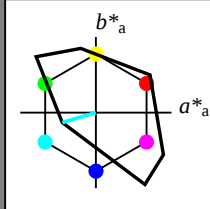
$lab^*ch$  und  $lab^*nch$

D65: Buntton C

LCH\*Ma: 87 46 196

olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)

olv3\* 1.0 1.0 1.0 (1.0)

olv4\* 1.0 1.0 1.0 (1.0)

olv5\* 1.0 1.0 1.0 (1.0)

olv6\* 1.0 1.0 1.0 (1.0)

olv7\* 1.0 1.0 1.0 (1.0)

olv8\* 1.0 1.0 1.0 (1.0)

olv9\* 1.0 1.0 1.0 (1.0)

olv10\* 1.0 1.0 1.0 (1.0)

olv11\* 1.0 1.0 1.0 (1.0)

olv12\* 1.0 1.0 1.0 (1.0)

olv13\* 1.0 1.0 1.0 (1.0)

olv14\* 1.0 1.0 1.0 (1.0)

olv15\* 1.0 1.0 1.0 (1.0)

olv16\* 1.0 1.0 1.0 (1.0)

olv17\* 1.0 1.0 1.0 (1.0)

olv18\* 1.0 1.0 1.0 (1.0)

olv19\* 1.0 1.0 1.0 (1.0)

olv20\* 1.0 1.0 1.0 (1.0)

olv21\* 1.0 1.0 1.0 (1.0)

olv22\* 1.0 1.0 1.0 (1.0)

olv23\* 1.0 1.0 1.0 (1.0)

olv24\* 1.0 1.0 1.0 (1.0)

olv25\* 1.0 1.0 1.0 (1.0)

olv26\* 1.0 1.0 1.0 (1.0)

olv27\* 1.0 1.0 1.0 (1.0)

olv28\* 1.0 1.0 1.0 (1.0)

olv29\* 1.0 1.0 1.0 (1.0)

olv30\* 1.0 1.0 1.0 (1.0)

olv31\* 1.0 1.0 1.0 (1.0)

olv32\* 1.0 1.0 1.0 (1.0)

olv33\* 1.0 1.0 1.0 (1.0)

olv34\* 1.0 1.0 1.0 (1.0)

olv35\* 1.0 1.0 1.0 (1.0)

olv36\* 1.0 1.0 1.0 (1.0)

olv37\* 1.0 1.0 1.0 (1.0)

olv38\* 1.0 1.0 1.0 (1.0)

olv39\* 1.0 1.0 1.0 (1.0)

TLS18; adaptierte CIELAB-Daten

|                  | $L^*=L_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-----------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76     | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74     | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0      | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14     | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47     | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01     | 89.33   | -55.67  | 105.26       | 328          |
| 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     | 58.74   | 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          |

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

## Ausgabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 196/360 = 0.546$

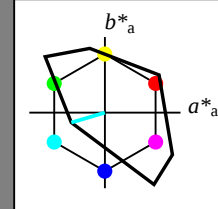
$lab^*ch$  und  $lab^*nch$

D65: Buntton C

LCH\*Ma: 87 46 196

olv\*Ma: 0.0 1.0 1.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)

olv3\* 1.0 1.0 1.0 (1.0)

olv4\* 1.0 1.0 1.0 (1.0)

olv5\* 1.0 1.0 1.0 (1.0)

olv6\* 1.0 1.0 1.0 (1.0)

olv7\* 1.0 1.0 1.0 (1.0)

olv8\* 1.0 1.0 1.0 (1.0)

olv9\* 1.0 1.0 1.0 (1.0)

olv10\* 1.0 1.0 1.0 (1.0)

olv11\* 1.0 1.0 1.0 (1.0)

olv12\* 1.0 1.0 1.0 (1.0)

olv13\* 1.0 1.0 1.0 (1.0)

olv14\* 1.0 1.0 1.0 (1.0)

olv15\* 1.0 1.0 1.0 (1.0)

olv16\* 1.0 1.0 1.0 (1.0)

olv17\* 1.0 1.0 1.0 (1.0)

olv18\* 1.0 1.0 1.0 (1.0)

olv19\* 1.0 1.0 1.0 (1.0)

olv20\* 1.0 1.0 1.0 (1.0)

olv21\* 1.0 1.0 1.0 (1.0)

olv22\* 1.0 1.0 1.0 (1.0)

olv23\* 1.0 1.0 1.0 (1.0)

olv24\* 1.0 1.0 1.0 (1.0)

olv25\* 1.0 1.0 1.0 (1.0)

olv26\* 1.0 1.0 1.0 (1.0)

olv27\* 1.0 1.0 1.0 (1.0)

olv28\* 1.0 1.0 1.0 (1.0)

olv29\* 1.0 1.0 1.0 (1.0)

olv30\* 1.0 1.0 1.0 (1.0)

olv31\* 1.0 1.0 1.0 (1.0)

olv32\* 1.0 1.0 1.0 (1.0)

olv33\* 1.0 1.0 1.0 (1.0)

olv34\* 1.0 1.0 1.0 (1.0)

olv35\* 1.0 1.0 1.0 (1.0)

olv36\* 1.0 1.0 1.0 (1.0)

olv37\* 1.0 1.0 1.0 (1.0)

olv38\* 1.0 1.0 1.0 (1.0)

olv39\* 1.0 1.0 1.0 (1.0)

TLS18; adaptierte CIELAB-Daten

|                  | $L^*=L_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-----------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76     | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74     | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0      | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14     | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47     | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01     | 89.33   | -55.67  | 105.26       | 328          |
| 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     | 58.74   | 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          |

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

NG590-7, 5 stufige Reihen für konstanten CIELAB Buntton 196/360 = 0.546 (links)

5 stufige Reihen für konstanten CIELAB Buntton 196/360 = 0.546 (rechts)

BAM-Prüfvorlage NG59; Farbmetrik-Systeme ORS18 & ORS18input: olv\* setrgbcolor

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: Startup (S) data dependend

## Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 304/360 = 0.845$

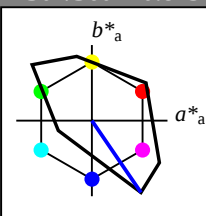
$lab^*ch$  und  $lab^*nch$

D65: Buntton V

LCH\*Ma: 35 115 304

olv\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

relative Inform. Technology (IT)

olv3\* 0.0 0.0 0.0 (1.0)

olv4\* 0.0 0.0 0.0 (1.0)

olv5\* 0.0 0.0 0.0 (1.0)

olv6\* 0.0 0.0 0.0 (1.0)

olv7\* 0.0 0.0 0.0 (1.0)

olv8\* 0.0 0.0 0.0 (1.0)

olv9\* 0.0 0.0 0.0 (1.0)

olv10\* 0.0 0.0 0.0 (1.0)

olv11\* 0.0 0.0 0.0 (1.0)

olv12\* 0.0 0.0 0.0 (1.0)

olv13\* 0.0 0.0 0.0 (1.0)

olv14\* 0.0 0.0 0.0 (1.0)

olv15\* 0.0 0.0 0.0 (1.0)

olv16\* 0.0 0.0 0.0 (1.0)

olv17\* 0.0 0.0 0.0 (1.0)

olv18\* 0.0 0.0 0.0 (1.0)

olv19\* 0.0 0.0 0.0 (1.0)

olv20\* 0.0 0.0 0.0 (1.0)

olv21\* 0.0 0.0 0.0 (1.0)

olv22\* 0.0 0.0 0.0 (1.0)

olv23\* 0.0 0.0 0.0 (1.0)

olv24\* 0.0 0.0 0.0 (1.0)

olv25\* 0.0 0.0 0.0 (1.0)

olv26\* 0.0 0.0 0.0 (1.0)

olv27\* 0.0 0.0 0.0 (1.0)

olv28\* 0.0 0.0 0.0 (1.0)

olv29\* 0.0 0.0 0.0 (1.0)

olv30\* 0.0 0.0 0.0 (1.0)

olv31\* 0.0 0.0 0.0 (1.0)

olv32\* 0.0 0.0 0.0 (1.0)

olv33\* 0.0 0.0 0.0 (1.0)

olv34\* 0.0 0.0 0.0 (1.0)

olv35\* 0.0 0.0 0.0 (1.0)

## TLS18; adaptierte CIELAB-Daten

|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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         | 58.74   | 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          |

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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         | 58.74   | 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          |

|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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         | 58.74   | 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          |
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|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
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| 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            |
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|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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            |
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| 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          |

|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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         | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26         | -2.88   | 71.56   | 71.62        | 92           |
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|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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            |
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|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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         | 58.74   | 27.99   | 65.07        | 25           |
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| B <sub>CIE</sub> | 30.57         | 1.41    | -46.46  | 46.49        | 272          |

|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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         | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub> | 81.26         | -2.88   | 71.56   | 71.62        | 92           |
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|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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         | 58.74   | 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          |

|                  | $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|---------------|---------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76         | 71.63   | 49.88   | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74         | -20.02  | 84.97   | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0          | -78.98  | 73.94   | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14         | -44.41  | -13.11  | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47         | 64.92   | -95.06  | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01         | 89.33   | -55.67  | 105.26       | 328          |
| 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         | 58.74   | 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          |

## Ausgabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 304/360 = 0.845$

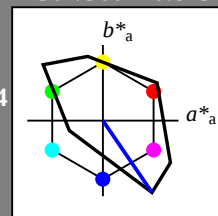
$lab^*ch$  und  $lab^*nch$

D65: Buntton V

LCH\*Ma: 35 115 304

olv\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



## Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 328/360 = 0.911$

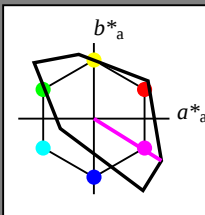
$lab^*ich$  und  $lab^*nch$

D65: Buntton M

LCH\*Ma: 59 105 328

olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LAB 95.41 0.0 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*ich 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 1.0 0.0 0.0  
lab\*ice 1.0 0.0 0.0  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.07 0.0 0.0  
LAB\*LAB 76.07 0.0 0.0  
LAB\*LAB 76.07 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ich 0.75 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.75 0.0 0.0  
lab\*ice 0.75 0.0 0.0  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 56.72 0.0 0.0  
LAB\*LAB 56.72 0.0 0.0  
LAB\*LAB 56.72 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ich 0.5 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.5 0.0 0.0  
lab\*ice 0.5 0.0 0.0  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.37 0.0 0.0  
LAB\*LAB 37.37 0.0 0.0  
LAB\*LAB 37.37 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ich 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.25 0.0 0.0  
lab\*ice 0.25 0.0 0.0  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ich 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.0 0.0 0.0  
lab\*ice 0.0 0.0 0.0  
lab\*nice 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ich 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.0 0.0 0.0  
lab\*ice 0.0 0.0 0.0  
lab\*nice 1.0 0.0 0.0

## TLS18; adaptierte CIELAB-Daten

|                  | $L^*=L_a$ | $a^*$  | $b^*$  | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-----------|--------|--------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76     | 71.63  | 49.88  | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74     | -20.02 | 84.97  | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0      | -78.98 | 73.94  | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14     | -44.41 | -13.11 | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47     | 64.92  | -95.06 | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01     | 89.33  | -55.67 | 105.26       | 328          |
| 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     | 58.74  | 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          |

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)  
olv3\* 1.0 0.5 1.0 (1.0)  
cmyn3\* 0.0 0.5 0.0 (0.0)  
olv4\* 1.0 0.5 1.0 (1.0)  
cmyn4\* 0.0 0.5 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 86.31 22.32 -13.9  
LAB\*LAB 86.31 22.32 -13.9  
LAB\*LAB 86.31 22.32 -13.9

relative CIELAB lab\*  
lab\*lab 0.882 0.125 -0.177  
lab\*ich 0.882 0.125 -0.177  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.882 0.125 -0.177  
lab\*ice 0.882 0.125 -0.177  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.5 0.75 (1.0)  
cmyn3\* 0.25 0.5 0.25 (0.0)  
olv4\* 1.0 0.5 1.0 (1.0)  
cmyn4\* 0.0 0.5 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 66.96 22.33 -13.91  
LAB\*LAB 66.96 22.33 -13.91  
LAB\*LAB 66.96 22.33 -13.91

relative CIELAB lab\*  
lab\*lab 0.75 0.5 0.75 (1.0)  
lab\*ich 0.75 0.5 0.75 (1.0)  
lab\*nch 0.0 0.5 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*tr 0.75 0.5 0.75 (1.0)  
lab\*ice 0.75 0.5 0.75 (1.0)  
lab\*nice 0.0 0.5 0.0 (0.0)

relative Inform. Technology (IT)  
olv3\* 0.5 0.25 0.5 (0.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 0.5 1.0 (1.0)  
cmyn4\* 0.0 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 57.86 44.67 -27.83  
LAB\*LAB 57.86 44.67 -27.83  
LAB\*LAB 57.86 44.67 -27.83

relative CIELAB lab\*  
lab\*lab 0.5 0.25 0.5 (0.0)  
lab\*ich 0.5 0.25 0.5 (0.0)  
lab\*nch 0.0 0.25 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*tr 0.5 0.25 0.5 (0.0)  
lab\*ice 0.5 0.25 0.5 (0.0)  
lab\*nice 0.0 0.25 0.0 (0.0)

relative Inform. Technology (IT)  
olv3\* 0.25 0.0 0.25 (1.0)  
cmyn3\* 0.75 0.0 0.75 (0.0)  
olv4\* 1.0 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 47.61 22.33 -13.91  
LAB\*LAB 47.61 22.33 -13.91  
LAB\*LAB 47.61 22.33 -13.91

relative CIELAB lab\*  
lab\*lab 0.382 0.125 -0.177  
lab\*ich 0.382 0.125 -0.177  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.382 0.125 -0.177  
lab\*ice 0.382 0.125 -0.177  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olv4\* 1.0 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ich 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.0 0.0 0.0  
lab\*ice 0.0 0.0 0.0  
lab\*nice 1.0 0.0 0.0

## Ausgabe: Farbmetrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 328/360 = 0.911$

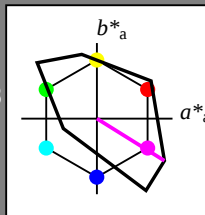
$lab^*ich$  und  $lab^*nch$

D65: Buntton M

LCH\*Ma: 59 105 328

olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LAB 95.41 0.0 0.0

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*ich 1.0 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 1.0 0.0 0.0  
lab\*ice 1.0 0.0 0.0  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.07 0.0 0.0  
LAB\*LAB 76.07 0.0 0.0  
LAB\*LAB 76.07 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*ich 0.75 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.75 0.0 0.0  
lab\*ice 0.75 0.0 0.0  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 56.72 0.0 0.0  
LAB\*LAB 56.72 0.0 0.0  
LAB\*LAB 56.72 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*ich 0.5 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.5 0.0 0.0  
lab\*ice 0.5 0.0 0.0  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.37 0.0 0.0  
LAB\*LAB 37.37 0.0 0.0  
LAB\*LAB 37.37 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*ich 0.25 0.0 0.0  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.25 0.0 0.0  
lab\*ice 0.25 0.0 0.0  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ich 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.0 0.0 0.0  
lab\*ice 0.0 0.0 0.0  
lab\*nice 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ich 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.0 0.0 0.0  
lab\*ice 0.0 0.0 0.0  
lab\*nice 1.0 0.0 0.0

## TLS18; adaptierte CIELAB-Daten

|                  | $L^*=L_a$ | $a^*$  | $b^*$  | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-----------|--------|--------|--------------|--------------|
| O <sub>Ma</sub>  | 52.76     | 71.63  | 49.88  | 87.29        | 35           |
| Y <sub>Ma</sub>  | 92.74     | -20.02 | 84.97  | 87.3         | 103          |
| L <sub>Ma</sub>  | 84.0      | -78.98 | 73.94  | 108.2        | 137          |
| C <sub>Ma</sub>  | 87.14     | -44.41 | -13.11 | 46.32        | 196          |
| V <sub>Ma</sub>  | 35.47     | 64.92  | -95.06 | 115.12       | 304          |
| M <sub>Ma</sub>  | 59.01     | 89.33  | -55.67 | 105.26       | 328          |
| 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     | 58.74  | 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          |

%Regularität

$g^*_{H,rel} = 22$

$g^*_{C,rel} = 40$

relative Inform. Technology (IT)  
olv3\* 1.0 0.5 1.0 (1.0)  
cmyn3\* 0.0 0.5 0.0 (0.0)  
olv4\* 1.0 0.5 1.0 (1.0)  
cmyn4\* 0.0 0.5 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 86.31 22.32 -13.9  
LAB\*LAB 86.31 22.32 -13.9  
LAB\*LAB 86.31 22.32 -13.9

relative CIELAB lab\*  
lab\*lab 0.882 0.125 -0.177  
lab\*ich 0.882 0.125 -0.177  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.882 0.125 -0.177  
lab\*ice 0.882 0.125 -0.177  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.5 0.75 (1.0)  
cmyn3\* 0.25 0.5 0.25 (0.0)  
olv4\* 1.0 0.5 1.0 (1.0)  
cmyn4\* 0.0 0.5 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 66.96 22.33 -13.91  
LAB\*LAB 66.96 22.33 -13.91  
LAB\*LAB 66.96 22.33 -13.91

relative CIELAB lab\*  
lab\*lab 0.75 0.5 0.75 (1.0)  
lab\*ich 0.75 0.5 0.75 (1.0)  
lab\*nch 0.0 0.5 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*tr 0.75 0.5 0.75 (1.0)  
lab\*ice 0.75 0.5 0.75 (1.0)  
lab\*nice 0.0 0.5 0.0 (0.0)

relative Inform. Technology (IT)  
olv3\* 0.5 0.25 0.5 (0.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 0.5 1.0 (1.0)  
cmyn4\* 0.0 0.25 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 57.86 44.67 -27.83  
LAB\*LAB 57.86 44.67 -27.83  
LAB\*LAB 57.86 44.67 -27.83

relative CIELAB lab\*  
lab\*lab 0.5 0.25 0.5 (0.0)  
lab\*ich 0.5 0.25 0.5 (0.0)  
lab\*nch 0.0 0.25 0.0 (0.0)  
relative Natural Colour (NC)  
lab\*tr 0.5 0.25 0.5 (0.0)  
lab\*ice 0.5 0.25 0.5 (0.0)  
lab\*nice 0.0 0.25 0.0 (0.0)

relative Inform. Technology (IT)  
olv3\* 0.25 0.0 0.25 (1.0)  
cmyn3\* 0.75 0.0 0.75 (0.0)  
olv4\* 1.0 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 47.61 22.33 -13.91  
LAB\*LAB 47.61 22.33 -13.91  
LAB\*LAB 47.61 22.33 -13.91

relative CIELAB lab\*  
lab\*lab 0.382 0.125 -0.177  
lab\*ich 0.382 0.125 -0.177  
lab\*nch 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.382 0.125 -0.177  
lab\*ice 0.382 0.125 -0.177  
lab\*nice 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.0 1.0 (0.0)  
olv4\* 1.0 0.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LAB 18.03 0.0 0.0

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*ich 0.0 0.0 0.0  
lab\*nch 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*tr 0.0 0.0 0.0  
lab\*ice 0.0 0.0 0.0  
lab\*nice 1.0 0.0 0.0

NG590-7, 5 stufige Reihen für konstanten CIELAB Buntton 328/360 = 0.911 (links)

5 stufige Reihen für konstanten CIELAB Buntton 328/360 = 0.911 (rechts)

BAM-Prüfvorlage NG59; Farbmetrik-Systeme ORS18 & ORS18input:  $olv^*setrgbcolor$

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output:  $Startup(S) data dependend$

## Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

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

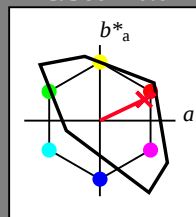
$lab^*ch$  und  $lab^*nch$

D65: Buntton R

LCH\*Ma: 54 82 25

olv\*Ma: 1.0 0.0 0.14

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 95.41 0.0 0.0  
LAB\*LABc 95.41 0.0 0.0  
relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0  
lab\*lab 1.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 0.75 0.785 (1.0)  
cmyn3\* 0.0 0.25 0.215 (0.0)  
olv4\* 1.0 0.75 0.785 (1.0)  
cmyn4\* 0.0 0.25 0.215 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 84.96 18.51 8.82  
LAB\*LABa 84.96 18.51 8.82  
LAB\*LABb 84.96 18.51 8.82  
LAB\*LABc 84.96 18.51 8.82  
relative CIELAB lab\*  
lab\*lab 0.865 0.226 0.107  
lab\*lab 0.865 0.226 0.107  
lab\*lab 0.865 0.226 0.107  
lab\*lab 0.865 0.226 0.107  
relative Natural Colour (NC)  
lab\*lab 0.865 0.226 0.107  
lab\*lab 0.865 0.226 0.107  
lab\*lab 0.865 0.226 0.107  
lab\*lab 0.865 0.226 0.107

relative Inform. Technology (IT)  
olv3\* 1.0 0.5 0.569 (1.0)  
cmyn3\* 0.0 0.5 0.569 (1.0)  
olv4\* 1.0 0.5 0.569 (1.0)  
cmyn4\* 0.0 0.5 0.569 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 74.51 37.03 17.64  
LAB\*LABa 74.51 37.03 17.64  
LAB\*LABb 74.51 37.03 17.64  
LAB\*LABc 74.51 37.03 17.64  
relative CIELAB lab\*  
lab\*lab 0.73 0.451 0.215  
lab\*lab 0.73 0.451 0.215  
lab\*lab 0.73 0.451 0.215  
lab\*lab 0.73 0.451 0.215  
relative Natural Colour (NC)  
lab\*lab 0.73 0.451 0.215  
lab\*lab 0.73 0.451 0.215  
lab\*lab 0.73 0.451 0.215  
lab\*lab 0.73 0.451 0.215

relative Inform. Technology (IT)  
olv3\* 1.0 0.25 0.354 (1.0)  
cmyn3\* 0.0 0.25 0.354 (1.0)  
olv4\* 1.0 0.25 0.354 (1.0)  
cmyn4\* 0.0 0.25 0.354 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 64.07 55.55 26.47  
LAB\*LABa 64.07 55.55 26.47  
LAB\*LABb 64.07 55.55 26.47  
LAB\*LABc 64.07 55.55 26.47  
relative CIELAB lab\*  
lab\*lab 0.595 0.677 0.323  
lab\*lab 0.595 0.677 0.323  
lab\*lab 0.595 0.677 0.323  
lab\*lab 0.595 0.677 0.323  
relative Natural Colour (NC)  
lab\*lab 0.595 0.677 0.323  
lab\*lab 0.595 0.677 0.323  
lab\*lab 0.595 0.677 0.323  
lab\*lab 0.595 0.677 0.323

relative Inform. Technology (IT)  
olv3\* 1.0 0.125 0.177 (1.0)  
cmyn3\* 0.0 0.125 0.177 (1.0)  
olv4\* 1.0 0.125 0.177 (1.0)  
cmyn4\* 0.0 0.125 0.177 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 53.62 74.06 35.3  
LAB\*LABa 53.62 74.06 35.3  
LAB\*LABb 53.62 74.06 35.3  
LAB\*LABc 53.62 74.06 35.3  
relative CIELAB lab\*  
lab\*lab 0.46 0.903 0.43  
lab\*lab 0.46 0.903 0.43  
lab\*lab 0.46 0.903 0.43  
lab\*lab 0.46 0.903 0.43  
relative Natural Colour (NC)  
lab\*lab 0.46 0.903 0.43  
lab\*lab 0.46 0.903 0.43  
lab\*lab 0.46 0.903 0.43  
lab\*lab 0.46 0.903 0.43

relative Inform. Technology (IT)  
olv3\* 1.0 0.0625 0.0885 (1.0)  
cmyn3\* 0.0 0.0625 0.0885 (1.0)  
olv4\* 1.0 0.0625 0.0885 (1.0)  
cmyn4\* 0.0 0.0625 0.0885 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 44.72 55.55 26.47  
LAB\*LABa 44.72 55.55 26.47  
LAB\*LABb 44.72 55.55 26.47  
LAB\*LABc 44.72 55.55 26.47  
relative CIELAB lab\*  
lab\*lab 0.345 0.677 0.323  
lab\*lab 0.345 0.677 0.323  
lab\*lab 0.345 0.677 0.323  
lab\*lab 0.345 0.677 0.323  
relative Natural Colour (NC)  
lab\*lab 0.345 0.677 0.323  
lab\*lab 0.345 0.677 0.323  
lab\*lab 0.345 0.677 0.323  
lab\*lab 0.345 0.677 0.323

relative Inform. Technology (IT)  
olv3\* 1.0 0.03125 0.04425 (1.0)  
cmyn3\* 0.0 0.03125 0.04425 (1.0)  
olv4\* 1.0 0.03125 0.04425 (1.0)  
cmyn4\* 0.0 0.03125 0.04425 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 35.82 37.03 17.65  
LAB\*LABa 35.82 37.03 17.65  
LAB\*LABb 35.82 37.03 17.65  
LAB\*LABc 35.82 37.03 17.65  
relative CIELAB lab\*  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215  
relative Natural Colour (NC)  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215

relative Inform. Technology (IT)  
olv3\* 1.0 0.015625 0.022125 (1.0)  
cmyn3\* 0.0 0.015625 0.022125 (1.0)  
olv4\* 1.0 0.015625 0.022125 (1.0)  
cmyn4\* 0.0 0.015625 0.022125 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 26.92 18.51 8.83  
LAB\*LABa 26.92 18.51 8.83  
LAB\*LABb 26.92 18.51 8.83  
LAB\*LABc 26.92 18.51 8.83  
relative CIELAB lab\*  
lab\*lab 0.115 0.226 0.108  
lab\*lab 0.115 0.226 0.108  
lab\*lab 0.115 0.226 0.108  
lab\*lab 0.115 0.226 0.108  
relative Natural Colour (NC)  
lab\*lab 0.115 0.226 0.108  
lab\*lab 0.115 0.226 0.108  
lab\*lab 0.115 0.226 0.108  
lab\*lab 0.115 0.226 0.108

relative Inform. Technology (IT)  
olv3\* 1.0 0.0078125 0.0110625 (1.0)  
cmyn3\* 0.0 0.0078125 0.0110625 (1.0)  
olv4\* 1.0 0.0078125 0.0110625 (1.0)  
cmyn4\* 0.0 0.0078125 0.0110625 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 18.03 0.0 0.0  
LAB\*LABc 18.03 0.0 0.0  
relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 0.00390625 0.00553125 (1.0)  
cmyn3\* 0.0 0.00390625 0.00553125 (1.0)  
olv4\* 1.0 0.00390625 0.00553125 (1.0)  
cmyn4\* 0.0 0.00390625 0.00553125 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 9.015 0.0 0.0  
LAB\*LABa 9.015 0.0 0.0  
LAB\*LABb 9.015 0.0 0.0  
LAB\*LABc 9.015 0.0 0.0  
relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 0.001953125 0.002765625 (1.0)  
cmyn3\* 0.0 0.001953125 0.002765625 (1.0)  
olv4\* 1.0 0.001953125 0.002765625 (1.0)  
cmyn4\* 0.0 0.001953125 0.002765625 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 4.5075 0.0 0.0  
LAB\*LABa 4.5075 0.0 0.0  
LAB\*LABb 4.5075 0.0 0.0  
LAB\*LABc 4.5075 0.0 0.0  
relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 76.07 0.0 0.0  
LAB\*LABa 76.07 0.0 0.0  
LAB\*LABb 76.07 0.0 0.0  
LAB\*LABc 76.07 0.0 0.0  
relative CIELAB lab\*  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0  
lab\*lab 0.75 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 65.61 18.52 8.82  
LAB\*LABa 65.61 18.52 8.82  
LAB\*LABb 65.61 18.52 8.82  
LAB\*LABc 65.61 18.52 8.82  
relative CIELAB lab\*  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1  
relative Natural Colour (NC)  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 55.17 37.04 17.65  
LAB\*LABa 55.17 37.04 17.65  
LAB\*LABb 55.17 37.04 17.65  
LAB\*LABc 55.17 37.04 17.65  
relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.125 0.125 0.125 (1.0)  
cmyn3\* 0.125 0.125 0.125 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 46.07 55.55 26.47  
LAB\*LABa 46.07 55.55 26.47  
LAB\*LABb 46.07 55.55 26.47  
LAB\*LABc 46.07 55.55 26.47  
relative CIELAB lab\*  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0625 0.0625 0.0625 (1.0)  
cmyn3\* 0.0625 0.0625 0.0625 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 37.04 17.65 17.65  
LAB\*LABa 37.04 17.65 17.65  
LAB\*LABb 37.04 17.65 17.65  
LAB\*LABc 37.04 17.65 17.65  
relative CIELAB lab\*  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0  
lab\*lab 0.25 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.03125 0.03125 0.03125 (1.0)  
cmyn3\* 0.03125 0.03125 0.03125 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 27.04 17.65 17.65  
LAB\*LABa 27.04 17.65 17.65  
LAB\*LABb 27.04 17.65 17.65  
LAB\*LABc 27.04 17.65 17.65  
relative CIELAB lab\*  
lab\*lab 0.125 0.0 0.0  
lab\*lab 0.125 0.0 0.0  
lab\*lab 0.125 0.0 0.0  
lab\*lab 0.125 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.125 0.0 0.0  
lab\*lab 0.125 0.0 0.0  
lab\*lab 0.125 0.0 0.0  
lab\*lab 0.125 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.015625 0.015625 0.015625 (1.0)  
cmyn3\* 0.015625 0.015625 0.015625 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 17.65 17.65 17.65  
LAB\*LABa 17.65 17.65 17.65  
LAB\*LABb 17.65 17.65 17.65  
LAB\*LABc 17.65 17.65 17.65  
relative CIELAB lab\*  
lab\*lab 0.0625 0.0 0.0  
lab\*lab 0.0625 0.0 0.0  
lab\*lab 0.0625 0.0 0.0  
lab\*lab 0.0625 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.0625 0.0 0.0  
lab\*lab 0.0625 0.0 0.0  
lab\*lab 0.0625 0.0 0.0  
lab\*lab 0.0625 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0078125 0.0078125 0.0078125 (1.0)  
cmyn3\* 0.0078125 0.0078125 0.0078125 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 9.015 17.65 17.65  
LAB\*LABa 9.015 17.65 17.65  
LAB\*LABb 9.015 17.65 17.65  
LAB\*LABc 9.015 17.65 17.65  
relative CIELAB lab\*  
lab\*lab 0.03125 0.0 0.0  
lab\*lab 0.03125 0.0 0.0  
lab\*lab 0.03125 0.0 0.0  
lab\*lab 0.03125 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.03125 0.0 0.0  
lab\*lab 0.03125 0.0 0.0  
lab\*lab 0.03125 0.0 0.0  
lab\*lab 0.03125 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.00390625 0.00390625 0.00390625 (1.0)  
cmyn3\* 0.00390625 0.00390625 0.00390625 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 4.5075 17.65 17.65  
LAB\*LABa 4.5075 17.65 17.65  
LAB\*LABb 4.5075 17.65 17.65  
LAB\*LABc 4.5075 17.65 17.65  
relative CIELAB lab\*  
lab\*lab 0.015625 0.0 0.0  
lab\*lab 0.015625 0.0 0.0  
lab\*lab 0.015625 0.0 0.0  
lab\*lab 0.015625 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.015625 0.0 0.0  
lab\*lab 0.015625 0.0 0.0  
lab\*lab 0.015625 0.0 0.0  
lab\*lab 0.015625 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.001953125 0.001953125 0.001953125 (1.0)  
cmyn3\* 0.001953125 0.001953125 0.001953125 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 2.25375 17.65 17.65  
LAB\*LABa 2.25375 17.65 17.65  
LAB\*LABb 2.25375 17.65 17.65  
LAB\*LABc 2.25375 17.65 17.65  
relative CIELAB lab\*  
lab\*lab 0.0078125 0.0 0.0  
lab\*lab 0.0078125 0.0 0.0  
lab\*lab 0.0078125 0.0 0.0  
lab\*lab 0.0078125 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.0078125 0.0 0.0  
lab\*lab 0.0078125 0.0 0.0  
lab\*lab 0.0078125 0.0 0.0  
lab\*lab 0.0078125 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.0009765625 0.0009765625 0.0009765625 (1.0)  
cmyn3\* 0.0009765625 0.0009765625 0.0009765625 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 1.126875 17.65 17.65  
LAB\*LABa 1.126875 17.65 17.65  
LAB\*LABb 1.126875 17.65 17.65  
LAB\*LABc 1.126875 17.65 17.65  
relative CIELAB lab\*  
lab\*lab 0.00390625 0.0 0.0  
lab\*lab 0.00390625 0.0 0.0  
lab\*lab 0.00390625 0.0 0.0  
lab\*lab 0.00390625 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.00390625 0.0 0.0  
lab\*lab 0.00390625 0.0 0.0  
lab\*lab 0.00390625 0.0 0.0  
lab\*lab 0.00390625 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.75 0.75 0.75 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 53.62 74.06 35.3  
LAB\*LABa 53.62 74.06 35.3  
LAB\*LABb 53.62 74.06 35.3  
LAB\*LABc 53.62 74.06 35.3  
relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0  
lab\*lab 0.5 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 46.26 18.52 8.82  
LAB\*LABa 46.26 18.52 8.82  
LAB\*LABb 46.26 18.52 8.82  
LAB\*LABc 46.26 18.52 8.82  
relative CIELAB lab\*  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1  
relative Natural Colour (NC)  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1  
lab\*lab 0.625 0.25 0.1

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 35.82 37.03 17.65  
LAB\*LABa 35.82 37.03 17.65  
LAB\*LABb 35.82 37.03 17.65  
LAB\*LABc 35.82 37.03 17.65  
relative CIELAB lab\*  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0  
lab\*lab 0.375 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.125 0.125 0.125 (1.0)  
cmyn3\* 0.125 0.125 0.125 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 26.92 18.51 8.83  
LAB\*LABa 26.92 18.51 8.83  
LAB\*LABb 26.92 18.51 8.83  
LAB\*LABc 26.92 18.51 8.83  
relative CIELAB lab\*  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215  
relative Natural Colour (NC)  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215  
lab\*lab 0.23 0.451 0.215

relative Inform. Technology (IT)  
olv3\* 0.0625 0.0625 0.0625 (1.0)  
cmyn3\* 0.0625 0.0625 0.0625 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 18.03 0.0 0.0  
LAB\*LABc 18.03 0.0 0.0  
relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
relative Natural Colour (NC)  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0  
lab\*lab 0.0 0.0 0.0

## Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

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

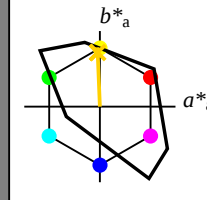
$lab^*tch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 85 79 92

olv\*Ma: 1.0 0.82 0.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 95.41 0.0 0.0  
LAB\*LABc 95.41 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 1.0 0.954 0.75 (1.0)  
cmyn3\* 0.0 0.046 0.25 (0.0)  
olv4\* 1.0 0.954 0.75 (1.0)  
cmyn4\* 0.0 0.046 0.25 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 92.9 -0.79 19.62  
LAB\*LABa 92.9 -0.79 19.62  
LAB\*LABb 87.5 19.64 92.33

relative Inform. Technology (IT)  
olv3\* 1.0 0.908 0.5 (1.0)  
cmyn3\* 0.0 0.092 0.5 (0.0)  
olv4\* 1.0 0.908 0.5 (1.0)  
cmyn4\* 0.0 0.092 0.5 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 90.39 -1.58 39.25  
LAB\*LABa 90.39 -1.58 39.25  
LAB\*LABb 75.0 39.29 92.32

relative Inform. Technology (IT)  
olv3\* 1.0 0.862 0.25 (1.0)  
cmyn3\* 0.0 0.138 0.75 (0.0)  
olv4\* 1.0 0.862 0.25 (1.0)  
cmyn4\* 0.0 0.138 0.75 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 87.89 -2.38 58.88  
LAB\*LABa 87.89 -2.38 58.88  
LAB\*LABb 62.5 58.93 92.32

relative Inform. Technology (IT)  
olv3\* 1.0 0.816 0.0 (1.0)  
cmyn3\* 0.0 0.184 1.0 (0.0)  
olv4\* 1.0 0.816 0.0 (1.0)  
cmyn4\* 0.0 0.184 1.0 (0.0)  
standard and adapted CIELAB  
LAB\*LAB 85.38 -3.17 78.5  
LAB\*LABa 85.38 -3.17 78.5  
LAB\*LABb 50.0 78.57 92.32

relative Inform. Technology (IT)  
olv3\* 0.75 0.75 0.75 (1.0)  
cmyn3\* 0.25 0.25 0.25 (0.0)  
olv4\* 1.0 1.0 1.0 (0.75)  
cmyn4\* 0.0 0.0 0.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 76.07 0.0 0.0  
LAB\*LABa 76.07 0.0 0.0  
LAB\*LABb 75.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.75 0.704 0.5 (1.0)  
cmyn3\* 0.25 0.296 0.5 (0.0)  
olv4\* 1.0 0.704 0.5 (0.75)  
cmyn4\* 0.0 0.296 0.5 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 73.55 -0.78 19.63  
LAB\*LABa 73.55 -0.78 19.63  
LAB\*LABb 62.5 19.64 92.31

relative Inform. Technology (IT)  
olv3\* 0.75 0.658 0.25 (1.0)  
cmyn3\* 0.25 0.342 0.75 (0.0)  
olv4\* 1.0 0.658 0.25 (0.75)  
cmyn4\* 0.0 0.342 0.75 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 71.05 -1.58 39.26  
LAB\*LABa 71.05 -1.58 39.26  
LAB\*LABb 50.0 39.29 92.31

relative Inform. Technology (IT)  
olv3\* 0.75 0.612 0.0 (1.0)  
cmyn3\* 0.25 0.388 1.0 (0.0)  
olv4\* 1.0 0.612 0.0 (0.75)  
cmyn4\* 0.0 0.388 1.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 68.54 -2.37 58.88  
LAB\*LABa 68.54 -2.37 58.88  
LAB\*LABb 37.51 58.93 92.31

relative Inform. Technology (IT)  
olv3\* 0.75 0.566 0.0 (1.0)  
cmyn3\* 0.25 0.434 1.0 (0.0)  
olv4\* 1.0 0.566 0.0 (0.75)  
cmyn4\* 0.0 0.434 1.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 65.92 -3.17 78.5  
LAB\*LABa 65.92 -3.17 78.5  
LAB\*LABb 25.0 78.57 92.32

relative Inform. Technology (IT)  
olv3\* 0.5 0.5 0.5 (0.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olv4\* 1.0 1.0 1.0 (0.5)  
cmyn4\* 0.0 0.0 0.0 (0.5)  
standard and adapted CIELAB  
LAB\*LAB 56.72 0.0 0.0  
LAB\*LABa 56.72 0.0 0.0  
LAB\*LABb 50.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.5 0.454 0.25 (1.0)  
cmyn3\* 0.5 0.546 0.75 (0.0)  
olv4\* 1.0 0.454 0.25 (0.75)  
cmyn4\* 0.0 0.546 0.75 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 54.2 -0.78 19.63  
LAB\*LABa 54.2 -0.78 19.63  
LAB\*LABb 37.5 19.64 92.31

relative Inform. Technology (IT)  
olv3\* 0.5 0.408 0.0 (1.0)  
cmyn3\* 0.5 0.592 1.0 (0.0)  
olv4\* 1.0 0.408 0.0 (0.75)  
cmyn4\* 0.0 0.592 1.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 51.7 -1.57 39.25  
LAB\*LABa 51.7 -1.57 39.25  
LAB\*LABb 25.01 39.28 92.31

relative Inform. Technology (IT)  
olv3\* 0.5 0.362 0.0 (1.0)  
cmyn3\* 0.5 0.638 1.0 (0.0)  
olv4\* 1.0 0.362 0.0 (0.75)  
cmyn4\* 0.0 0.638 1.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 48.89 -2.37 58.88  
LAB\*LABa 48.89 -2.37 58.88  
LAB\*LABb 12.5 58.93 92.31

relative Inform. Technology (IT)  
olv3\* 0.5 0.316 0.0 (1.0)  
cmyn3\* 0.5 0.684 1.0 (0.0)  
olv4\* 1.0 0.316 0.0 (0.75)  
cmyn4\* 0.0 0.684 1.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 46.31 -3.17 78.5  
LAB\*LABa 46.31 -3.17 78.5  
LAB\*LABb 0.0 78.57 92.32

relative Inform. Technology (IT)  
olv3\* 0.25 0.25 0.25 (0.0)  
cmyn3\* 0.75 0.75 0.75 (1.0)  
olv4\* 1.0 1.0 1.0 (0.25)  
cmyn4\* 0.0 0.0 0.0 (0.75)  
standard and adapted CIELAB  
LAB\*LAB 37.37 0.0 0.0  
LAB\*LABa 37.37 0.0 0.0  
LAB\*LABb 25.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.25 0.204 0.5 (1.0)  
cmyn3\* 0.75 0.796 0.5 (0.0)  
olv4\* 1.0 0.204 0.5 (0.75)  
cmyn4\* 0.0 0.796 0.5 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 34.85 -0.78 19.62  
LAB\*LABa 34.85 -0.78 19.62  
LAB\*LABb 12.5 19.64 92.31

relative Inform. Technology (IT)  
olv3\* 0.25 0.158 0.25 (1.0)  
cmyn3\* 0.75 0.842 0.75 (0.0)  
olv4\* 1.0 0.158 0.25 (0.75)  
cmyn4\* 0.0 0.842 0.75 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 32.37 0.0 0.0  
LAB\*LABa 32.37 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.25 0.112 0.0 (1.0)  
cmyn3\* 0.75 0.888 1.0 (0.0)  
olv4\* 1.0 0.112 0.0 (0.75)  
cmyn4\* 0.0 0.888 1.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 29.79 -1.57 39.25  
LAB\*LABa 29.79 -1.57 39.25  
LAB\*LABb 0.0 39.28 92.31

relative Inform. Technology (IT)  
olv3\* 0.25 0.066 0.0 (1.0)  
cmyn3\* 0.75 0.934 1.0 (0.0)  
olv4\* 1.0 0.066 0.0 (0.75)  
cmyn4\* 0.0 0.934 1.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 27.21 -2.37 58.88  
LAB\*LABa 27.21 -2.37 58.88  
LAB\*LABb 0.0 58.93 92.31

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.01 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.954 0.75 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.954 0.75 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.908 0.5 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.908 0.5 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.862 0.25 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.862 0.25 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.816 0.0 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.816 0.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.954 0.75 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.954 0.75 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.908 0.5 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.908 0.5 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.862 0.25 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.862 0.25 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.816 0.0 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.816 0.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.954 0.75 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.954 0.75 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.908 0.5 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.908 0.5 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.862 0.25 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.862 0.25 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.816 0.0 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.816 0.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.954 0.75 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.954 0.75 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.908 0.5 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.908 0.5 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.862 0.25 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.862 0.25 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.816 0.0 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.816 0.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olv4\* 1.0 1.0 1.0 (0.0)  
cmyn4\* 0.0 0.0 0.0 (1.0)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.954 0.75 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.954 0.75 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.908 0.5 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.908 0.5 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.862 0.25 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.862 0.25 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

relative Inform. Technology (IT)  
olv3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 0.816 0.0 (1.0)  
olv4\* 1.0 0.0 0.0 (0.75)  
cmyn4\* 0.0 0.816 0.0 (0.25)  
standard and adapted CIELAB  
LAB\*LAB 18.03 0.0 0.0  
LAB\*LABa 18.03 0.0 0.0  
LAB\*LABb 0.0 0.01 -

NG590-7, 5 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

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

BAM-Prüfvorlage NG59; Farbmetrik-Systeme ORS18 & ORS18input: olv\* setrgbcolor

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: Startup (S) data dependend



## Eingabe: Farbmetrisches Fernseh-Licht-System TLS18

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

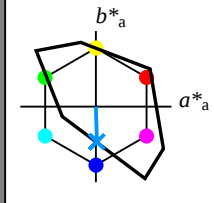
$lab^*ich$  und  $lab^*nch$

D65: Buntton B

LCH\*Ma: 65 48 272

olv\*Ma: 0.0 0.58 1.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 95.41 0.0 0.0  
LAB\*LABc 95.41 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.895 1.0 (1.0)  
cmyn3\* 0.25 0.105 0.0 (0.0)  
olv4\* 0.75 0.895 1.0 (1.0)  
cmyn4\* 0.25 0.105 0.0 (0.0)  
LAB\*LAB 87.92 0.35 -11.85  
LAB\*LABa 87.92 0.35 -11.85  
LAB\*LABb 87.92 0.35 -11.85  
LAB\*LABc 87.92 0.35 -11.85

relative Inform. Technology (IT)  
olv3\* 0.75 0.895 1.0 (1.0)  
cmyn3\* 0.25 0.105 0.0 (0.0)  
olv4\* 0.75 0.895 1.0 (1.0)  
cmyn4\* 0.25 0.105 0.0 (0.0)  
LAB\*LAB 87.92 0.35 -11.85  
LAB\*LABa 87.92 0.35 -11.85  
LAB\*LABb 87.92 0.35 -11.85  
LAB\*LABc 87.92 0.35 -11.85

relative Inform. Technology (IT)  
olv3\* 0.75 0.895 1.0 (1.0)  
cmyn3\* 0.25 0.105 0.0 (0.0)  
olv4\* 0.75 0.895 1.0 (1.0)  
cmyn4\* 0.25 0.105 0.0 (0.0)  
LAB\*LAB 87.92 0.35 -11.85  
LAB\*LABa 87.92 0.35 -11.85  
LAB\*LABb 87.92 0.35 -11.85  
LAB\*LABc 87.92 0.35 -11.85

relative Inform. Technology (IT)  
olv3\* 0.75 0.895 1.0 (1.0)  
cmyn3\* 0.25 0.105 0.0 (0.0)  
olv4\* 0.75 0.895 1.0 (1.0)  
cmyn4\* 0.25 0.105 0.0 (0.0)  
LAB\*LAB 87.92 0.35 -11.85  
LAB\*LABa 87.92 0.35 -11.85  
LAB\*LABb 87.92 0.35 -11.85  
LAB\*LABc 87.92 0.35 -11.85

## Ausgabe: Farbmetrisches Fernseh-Licht-System TLS18

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

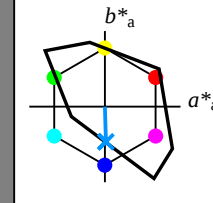
$lab^*ich$  und  $lab^*nch$

D65: Buntton B

LCH\*Ma: 65 48 272

olv\*Ma: 0.0 0.58 1.0

Dreiecks-Helligkeit  $t^*$



relative Inform. Technology (IT)  
olv3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olv4\* 1.0 1.0 1.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)  
LAB\*LAB 95.41 0.0 0.0  
LAB\*LABa 95.41 0.0 0.0  
LAB\*LABb 95.41 0.0 0.0  
LAB\*LABc 95.41 0.0 0.0

relative Inform. Technology (IT)  
olv3\* 0.75 0.895 1.0 (1.0)  
cmyn3\* 0.25 0.105 0.0 (0.0)  
olv4\* 0.75 0.895 1.0 (1.0)  
cmyn4\* 0.25 0.105 0.0 (0.0)  
LAB\*LAB 87.92 0.35 -11.85  
LAB\*LABa 87.92 0.35 -11.85  
LAB\*LABb 87.92 0.35 -11.85  
LAB\*LABc 87.92 0.35 -11.85

relative Inform. Technology (IT)  
olv3\* 0.75 0.895 1.0 (1.0)  
cmyn3\* 0.25 0.105 0.0 (0.0)  
olv4\* 0.75 0.895 1.0 (1.0)  
cmyn4\* 0.25 0.105 0.0 (0.0)  
LAB\*LAB 87.92 0.35 -11.85  
LAB\*LABa 87.92 0.35 -11.85  
LAB\*LABb 87.92 0.35 -11.85  
LAB\*LABc 87.92 0.35 -11.85

relative Inform. Technology (IT)  
olv3\* 0.75 0.895 1.0 (1.0)  
cmyn3\* 0.25 0.105 0.0 (0.0)  
olv4\* 0.75 0.895 1.0 (1.0)  
cmyn4\* 0.25 0.105 0.0 (0.0)  
LAB\*LAB 87.92 0.35 -11.85  
LAB\*LABa 87.92 0.35 -11.85  
LAB\*LABb 87.92 0.35 -11.85  
LAB\*LABc 87.92 0.35 -11.85

relative Inform. Technology (IT)  
olv3\* 0.75 0.895 1.0 (1.0)  
cmyn3\* 0.25 0.105 0.0 (0.0)  
olv4\* 0.75 0.895 1.0 (1.0)  
cmyn4\* 0.25 0.105 0.0 (0.0)  
LAB\*LAB 87.92 0.35 -11.85  
LAB\*LABa 87.92 0.35 -11.85  
LAB\*LABb 87.92 0.35 -11.85  
LAB\*LABc 87.92 0.35 -11.85

NG590-7, 5 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)

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

BAM-Prüfvorlage NG59; Farbmetrik-Systeme ORS18 & ORS18input:  $olv^*setrgbcolor$

D65: 2 Koordinatendaten; 5stufige Farbreihen für 10 Bunttöne output: Startup (S) data dependend