

# Eingabe: Farbmetrisches Fernseh-Licht-System TLS00

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

D65: Buntton 0  
LCH\*Ma: 51 100 40  
olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $i^*$



%Umfang  
 $u^*_{rel} = 158$   
%Regulartität  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$

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\*LABo 95.41 0.0 0.0  
LAB\*TCHo 99.99 0.01

relative CIELAB lab\*  
lab\*lab 1.0 0.5 0.0 (1.0)  
lab\*ch 1.0 0.0 -

relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*nce 1.0 0.0 -  
lab\*nce 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 (0.5)  
cmyn4\* 0.0 0.0 0.0 (0.5)

standard and adapted CIELAB  
LAB\*LAB 47.72 0.0 0.0  
LAB\*LABo 47.72 0.0 0.0  
LAB\*TCHo 50.0 0.01

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0 (1.0)  
lab\*ch 0.5 0.0 0.0 (0.0)

relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 0.0  
lab\*nce 0.5 0.0 -  
lab\*nce 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 (0.0)  
cmyn4\* 0.0 0.0 0.0 (1.0)

standard and adapted CIELAB  
LAB\*LAB 0.03 0.0 0.0  
LAB\*LABo 0.03 0.0 0.0  
LAB\*TCHo 0.01 0.01

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (1.0)  
lab\*ch 1.0 0.0 -

relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*nce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

$n^* = 1.0$

## TLS00; adaptierte CIELAB-Daten

| $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab}$ | $h^*_{ab}$ |
|---------------|---------|---------|------------|------------|
| QMa 50.5      | 76.92   | 64.55   | 100.42     | 40         |
| YMa 82.66     | -20.69  | 90.75   | 93.08      | 103        |
| XMa 93.63     | -82.75  | 79.9    | 115.04     | 136        |
| CMa 86.88     | -46.16  | -13.55  | 48.12      | 196        |
| VMa 30.39     | 76.06   | -103.59 | 128.52     | 306        |
| MMa 57.3      | 94.35   | -58.41  | 110.97     | 328        |
| NMa 0.01      | 0.0     | 0.0     | 0.0        | 0          |
| WMa 95.41     | 0.0     | 0.0     | 0.0        | 0          |
| RCIE 39.92    | 58.74   | 27.99   | 65.07      | 25         |
| JCIE 81.26    | -2.88   | 71.56   | 71.62      | 92         |
| GCIE 52.23    | -42.41  | 13.6    | 44.55      | 162        |
| BCIE 30.57    | 1.41    | -46.46  | 46.49      | 272        |

relative Inform. Technology (IT)  
olv3\* 1.0 0.5 0.5 (1.0)  
cmyn3\* 0.0 0.5 0.5 (0.0)  
olv4\* 1.0 0.5 0.5 (0.0)  
cmyn4\* 0.0 0.5 0.5 (0.0)

standard and adapted CIELAB  
LAB\*LAB 72.95 38.45 32.27  
LAB\*LABo 72.95 38.45 32.27  
LAB\*TCHo 75.0 50.2 40.0

relative CIELAB lab\*  
lab\*lab 0.765 0.383 0.321  
lab\*ch 0.75 0.5 0.111  
lab\*nch 0.0 0.5 0.111

relative Natural Colour (NC)  
lab\*lrj 0.765 0.471 0.167  
lab\*nce 0.75 0.5 0.054  
lab\*nce 0.0 0.5 0.231

relative Inform. Technology (IT)  
olv3\* 0.5 0.0 0.0 (1.0)  
cmyn3\* 0.5 1.0 0.0 (0.0)  
olv4\* 1.0 0.5 0.5 (0.5)  
cmyn4\* 0.0 0.5 0.5 (0.5)

standard and adapted CIELAB  
LAB\*LAB 25.26 38.45 32.27  
LAB\*LABo 25.26 38.45 32.27  
LAB\*TCHo 25.01 50.2 40.0

relative CIELAB lab\*  
lab\*lab 0.265 0.383 0.321  
lab\*ch 0.25 0.5 0.111  
lab\*nch 0.0 0.5 0.111

relative Natural Colour (NC)  
lab\*lrj 0.265 0.471 0.167  
lab\*nce 0.25 0.5 0.054  
lab\*nce 0.0 0.5 0.231

relative Inform. Technology (IT)  
olv3\* 1.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olv4\* 1.0 0.0 0.0 (1.0)  
cmyn4\* 0.0 0.0 0.0 (0.0)

standard and adapted CIELAB  
LAB\*LAB 50.5 76.9 64.54  
LAB\*LABo 50.5 76.9 64.54  
LAB\*TCHo 50.0 100.4 40.0

relative CIELAB lab\*  
lab\*lab 0.529 0.766 0.643  
lab\*ch 0.5 1.0 0.111  
lab\*nch 0.0 1.0 0.111

relative Natural Colour (NC)  
lab\*lrj 0.529 0.942 0.335  
lab\*nce 0.5 1.0 0.054  
lab\*nce 0.0 1.0 0.231

$n^* = 0.00$

Schwarzhcit  $n^*$

relative Buntheit  $c^*$

# Ausgabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

D65: Buntton 0  
LCH\*Ma: 48 83 38  
olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $i^*$



%Umfang  
 $u^*_{rel} = 93$   
%Regulartität  
 $g^*_{H,rel} = 57$   
 $g^*_{C,rel} = 59$

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 -0.98 4.75  
LAB\*LABo 95.41 0.0 0.0  
LAB\*TCHo 99.99 0.01

relative CIELAB lab\*  
lab\*lab 1.0 0.0 0.0 (1.0)  
lab\*ch 1.0 0.0 -

relative Natural Colour (NC)  
lab\*lrj 1.0 0.0 0.0  
lab\*nce 1.0 0.0 -  
lab\*nce 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 (0.5)  
cmyn4\* 0.0 0.5 0.5 (0.5)

standard and adapted CIELAB  
LAB\*LAB 56.71 -0.24 2.14  
LAB\*LABo 56.71 0.0 0.0  
LAB\*TCHo 50.0 0.01

relative CIELAB lab\*  
lab\*lab 0.5 0.0 0.0 (1.0)  
lab\*ch 0.5 0.0 0.0 (0.0)

relative Natural Colour (NC)  
lab\*lrj 0.5 0.0 0.0  
lab\*nce 0.5 0.0 -  
lab\*nce 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 (0.0)  
cmyn4\* 0.0 0.0 0.0 (1.0)

standard and adapted CIELAB  
LAB\*LAB 18.02 0.5 -0.47  
LAB\*LABo 18.02 0.5 -0.47  
LAB\*TCHo 0.01 0.01

relative CIELAB lab\*  
lab\*lab 0.0 0.0 0.0 (1.0)  
lab\*ch 1.0 0.0 -

relative Natural Colour (NC)  
lab\*lrj 0.0 0.0 0.0  
lab\*nce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

$n^* = 1.0$

## ORS18; adaptierte CIELAB-Daten

| $L^* = L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab}$ | $h^*_{ab}$ |
|---------------|---------|---------|------------|------------|
| QMa 47.94     | 65.39   | 50.52   | 82.63      | 38         |
| YMa 90.37     | -10.26  | 91.75   | 92.32      | 96         |
| XMa 50.9      | -62.83  | 34.96   | 71.91      | 151        |
| CMa 58.62     | -30.34  | -45.01  | 54.3       | 236        |
| VMa 25.72     | 31.1    | -44.4   | 54.22      | 305        |
| MMa 48.13     | 75.28   | -8.36   | 75.74      | 354        |
| NMa 0.01      | 0.0     | 0.0     | 0.0        | 0          |
| WMa 95.41     | 0.0     | 0.0     | 0.0        | 0          |
| RCIE 39.92    | 58.66   | 26.98   | 64.57      | 25         |
| JCIE 81.26    | -2.16   | 67.76   | 67.79      | 92         |
| GCIE 52.23    | -42.25  | 11.76   | 43.87      | 164        |
| BCIE 30.57    | 1.15    | -46.84  | 46.86      | 271        |

relative Inform. Technology (IT)  
olv3\* 1.0 0.5 0.5 (1.0)  
cmyn3\* 0.0 0.5 0.5 (0.0)  
olv4\* 1.0 0.5 0.5 (0.0)  
cmyn4\* 0.0 0.5 0.5 (0.0)

standard and adapted CIELAB  
LAB\*LAB 71.67 32.15 28.41  
LAB\*LABo 71.67 32.15 28.41  
LAB\*TCHo 75.0 41.31 37.69

relative CIELAB lab\*  
lab\*lab 0.693 0.396 0.306  
lab\*ch 0.75 0.5 0.105  
lab\*nch 0.0 0.5 0.105

relative Natural Colour (NC)  
lab\*lrj 0.693 0.477 0.15  
lab\*nce 0.75 0.5 0.048  
lab\*nce 0.0 0.5 0.193

relative Inform. Technology (IT)  
olv3\* 0.5 0.0 0.0 (1.0)  
cmyn3\* 0.5 1.0 0.0 (0.0)  
olv4\* 1.0 0.5 0.5 (0.5)  
cmyn4\* 0.0 0.5 0.5 (0.5)

standard and adapted CIELAB  
LAB\*LAB 32.98 32.9 25.8  
LAB\*LABo 32.98 32.9 25.8  
LAB\*TCHo 25.01 50.2 40.0

relative CIELAB lab\*  
lab\*lab 0.193 0.396 0.306  
lab\*ch 0.25 0.5 0.105  
lab\*nch 0.0 0.5 0.105

relative Natural Colour (NC)  
lab\*lrj 0.193 0.477 0.15  
lab\*nce 0.25 0.5 0.048  
lab\*nce 0.0 0.5 0.193

$n^* = 0.00$

Schwarzhcit  $n^*$

relative Buntheit  $c^*$