

# Eingabe: Farbmetrisches Offset-Reflektiv-System ORS18

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

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

Dreiecks-Helligkeit  $t^*$



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

## ORS18; adaptierte CIELAB-Daten

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

# Ausgabe: Farbmetrisches Fernseh-Licht-System TLS00

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

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

Dreiecks-Helligkeit  $t^*$



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

## TLS00; adaptierte CIELAB-Daten

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

relative Inform. Technology (IT)  
 $olv^*3^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn^*3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$   
 $olv^*4^* = 1.0 \ 1.0 \ 1.0 \ (1.0)$   
 $cmyn^*4^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$   
 standard and adapted CIELAB  
 LAB\*LAB 95.41 0.0 0.0  
 LAB\*LABa 95.41 0.0 0.0  
 LAB\*TCHe 99.99 0.01 -

relative CIELAB lab\*  
 $lab^*lab = 1.0 \ 0.0 \ 0.0$   
 $lab^*tch = 1.0 \ 0.0 \ -$   
 $lab^*nch = 0.0 \ 0.0 \ -$   
 relative Natural Colour (NC)  
 $lab^*trj = 1.0 \ 0.0 \ 0.0$   
 $lab^*tce = 1.0 \ 0.0 \ -$   
 $lab^*nce = 0.0 \ 0.0 \ -$

relative Inform. Technology (IT)  
 $olv^*3^* = 0.5 \ 0.5 \ 0.5 \ (1.0)$   
 $cmyn^*3^* = 0.5 \ 0.5 \ 0.5 \ (0.0)$   
 $olv^*4^* = 1.0 \ 1.0 \ 1.0 \ (0.5)$   
 $cmyn^*4^* = 0.0 \ 0.0 \ 0.0 \ (0.5)$   
 standard and adapted CIELAB  
 LAB\*LAB 47.72 0.0 0.0  
 LAB\*LABa 47.72 0.0 0.0  
 LAB\*TCHe 50.0 0.01 -

relative CIELAB lab\*  
 $lab^*lab = 0.5 \ 0.0 \ 0.0$   
 $lab^*tch = 0.5 \ 0.0 \ -$   
 $lab^*nch = 0.5 \ 0.0 \ -$   
 relative Natural Colour (NC)  
 $lab^*trj = 0.5 \ 0.0 \ 0.0$   
 $lab^*tce = 0.5 \ 0.0 \ -$   
 $lab^*nce = 0.5 \ 0.0 \ -$

relative Inform. Technology (IT)  
 $olv^*3^* = 0.0 \ 0.0 \ 0.0 \ (0.0)$   
 $cmyn^*3^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$   
 $olv^*4^* = 1.0 \ 1.0 \ 1.0 \ (0.0)$   
 $cmyn^*4^* = 0.0 \ 0.0 \ 0.0 \ (1.0)$   
 standard and adapted CIELAB  
 LAB\*LAB 0.03 0.0 0.0  
 LAB\*LABa 0.03 0.0 0.0  
 LAB\*TCHe 0.01 0.01 -

relative CIELAB lab\*  
 $lab^*lab = 0.0 \ 0.0 \ 0.0$   
 $lab^*tch = 0.0 \ 0.0 \ -$   
 $lab^*nch = 1.0 \ 0.0 \ -$   
 relative Natural Colour (NC)  
 $lab^*trj = 0.0 \ 0.0 \ 0.0$   
 $lab^*tce = 0.0 \ 0.0 \ -$   
 $lab^*nce = 1.0 \ 0.0 \ -$

relative Inform. Technology (IT)  
 $olv^*3^* = 1.0 \ 0.5 \ 0.5 \ (1.0)$   
 $cmyn^*3^* = 0.0 \ 0.5 \ 0.5 \ (0.0)$   
 $olv^*4^* = 1.0 \ 0.5 \ 0.5 \ (1.0)$   
 $cmyn^*4^* = 0.0 \ 0.5 \ 0.5 \ (0.0)$   
 standard and adapted CIELAB  
 LAB\*LAB 72.95 38.45 32.27  
 LAB\*LABa 72.95 38.45 32.27  
 LAB\*TCHe 75.0 50.2 40.0

relative CIELAB lab\*  
 $lab^*lab = 0.765 \ 0.383 \ 0.321$   
 $lab^*tch = 0.75 \ 0.5 \ 0.111$   
 $lab^*nch = 0.0 \ 0.5 \ 0.111$   
 $lab^*trj = 0.765 \ 0.471 \ 0.167$   
 $lab^*tce = 0.75 \ 0.5 \ 0.054$   
 $lab^*nce = 0.0 \ 0.5 \ 0.121$

relative Inform. Technology (IT)  
 $olv^*3^* = 0.5 \ 0.0 \ 0.0 \ (1.0)$   
 $cmyn^*3^* = 0.5 \ 1.0 \ 1.0 \ (0.0)$   
 $olv^*4^* = 1.0 \ 0.5 \ 0.5 \ (0.5)$   
 $cmyn^*4^* = 0.0 \ 0.5 \ 0.5 \ (0.5)$   
 standard and adapted CIELAB  
 LAB\*LAB 25.26 38.45 32.27  
 LAB\*LABa 25.26 38.45 32.27  
 LAB\*TCHe 25.01 50.2 40.0

relative CIELAB lab\*  
 $lab^*lab = 0.265 \ 0.383 \ 0.321$   
 $lab^*tch = 0.25 \ 0.5 \ 0.111$   
 $lab^*nch = 0.0 \ 0.5 \ 0.111$   
 $lab^*trj = 0.265 \ 0.471 \ 0.167$   
 $lab^*tce = 0.25 \ 0.5 \ 0.054$   
 $lab^*nce = 0.5 \ 0.5 \ 0.121$

relative Inform. Technology (IT)  
 $olv^*3^* = 1.0 \ 0.0 \ 0.0 \ (1.0)$   
 $cmyn^*3^* = 0.0 \ 1.0 \ 1.0 \ (0.0)$   
 $olv^*4^* = 1.0 \ 0.0 \ 0.0 \ (1.0)$   
 $cmyn^*4^* = 0.0 \ 1.0 \ 1.0 \ (0.0)$   
 standard and adapted CIELAB  
 LAB\*LAB 50.5 76.9 64.54  
 LAB\*LABa 50.5 76.9 64.54  
 LAB\*TCHe 50.0 100.4 40.0

relative CIELAB lab\*  
 $lab^*lab = 0.529 \ 0.766 \ 0.643$   
 $lab^*tch = 0.5 \ 1.0 \ 0.111$   
 $lab^*nch = 0.0 \ 1.0 \ 0.111$   
 $lab^*trj = 0.529 \ 0.942 \ 0.325$   
 $lab^*tce = 0.5 \ 1.0 \ 0.054$   
 $lab^*nce = 0.0 \ 1.0 \ 0.121$

relative Natural Colour (NC)  
 $lab^*trj = 0.529 \ 0.942 \ 0.325$   
 $lab^*tce = 0.5 \ 1.0 \ 0.054$   
 $lab^*nce = 0.0 \ 1.0 \ 0.121$