

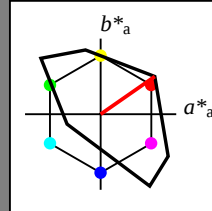
## Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

D65: Buntton O

LCH\*Ma: 53 87 35

olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$ 

%Umfang

 $u^*_{rel} = 118$ 

%Regularität

 $g^*_{H,rel} = 22$  $g^*_{C,rel} = 40$ 

## 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          |

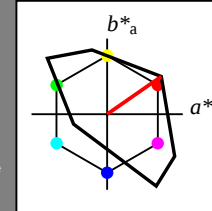
## Ausgabe: Farbmétrisches Fernseh-Licht-System TLS18

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

D65: Buntton O

LCH\*Ma: 53 87 35

olv\*Ma: 1.0 0.0 0.0

Dreiecks-Helligkeit  $t^*$ 

%Umfang

 $u^*_{rel} = 118$ 

%Regularität

 $g^*_{H,rel} = 22$  $g^*_{C,rel} = 40$ 

## 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          |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 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*TCHa | 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*lrj | 1.0 | 0.0 | 0.0 |
| lab*tce | 1.0 | 0.0 | -   |
| lab*nce | 0.0 | 0.0 | -   |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 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*TCHa | 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*lrj | 0.5 | 0.0 | 0.0 |
| lab*tce | 0.5 | 0.0 | -   |
| lab*nce | 0.5 | 0.0 | -   |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 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*TCHa | 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*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.0 | 0.5 | 0.5 | (0.0) |
| olvi4* | 1.0 | 0.5 | 0.5 | 1.0   |
| cmyn4* | 0.0 | 0.5 | 0.5 | 0.0   |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 74.08 | 35.81 | 24.94 |
| LAB*LABa | 74.08 | 35.81 | 24.94 |
| LAB*TCHa | 75.0  | 43.63 | 34.85 |

relative CIELAB lab\*

|         |       |      |       |
|---------|-------|------|-------|
| lab*lab | 0.724 | 0.41 | 0.286 |
| lab*tch | 0.75  | 0.5  | 0.097 |
| lab*nch | 0.0   | 0.5  | 0.097 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lrj | 0.724 | 0.488 | 0.109 |
| lab*tce | 0.75  | 0.5   | 0.035 |
| lab*nce | 0.0   | 0.5   | r14j  |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 0.5 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 0.5 | 0.5 | 0.5   |
| cmyn4* | 0.0 | 0.5 | 0.5 | 0.5   |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 35.39 | 35.81 | 24.94 |
| LAB*LABa | 35.39 | 35.81 | 24.94 |
| LAB*TCHa | 25.01 | 43.63 | 34.85 |

relative CIELAB lab\*

|         |       |      |       |
|---------|-------|------|-------|
| lab*lab | 0.225 | 0.41 | 0.286 |
| lab*tch | 0.25  | 0.5  | 0.097 |
| lab*nch | 0.5   | 0.5  | 0.097 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lrj | 0.225 | 0.488 | 0.109 |
| lab*tce | 0.25  | 0.5   | 0.035 |
| lab*nce | 0.5   | 0.5   | r14j  |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 0.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 1.0 | 0.0 | 0.0 | 1.0   |
| cmyn4* | 0.0 | 1.0 | 1.0 | 0.0   |

standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 52.76 | 71.62 | 49.87 |
| LAB*LABa | 52.76 | 71.62 | 49.87 |
| LAB*TCHa | 50.0  | 87.27 | 34.85 |

relative CIELAB lab\*

|         |       |      |       |
|---------|-------|------|-------|
| lab*lab | 0.449 | 0.82 | 0.571 |
| lab*tch | 0.5   | 1.0  | 0.097 |
| lab*nch | 0.0   | 1.0  | 0.097 |

relative Natural Colour (NC)

|         |       |       |       |
|---------|-------|-------|-------|
| lab*lrj | 0.449 | 0.976 | 0.218 |
| lab*tce | 0.5   | 1.0   | 0.035 |
| lab*nce | 0.0   | 1.0   | r14j  |

relative Buntheit  $c^*$

0,25 0,50 0,75 1,00

$n^* = 0,00$

$n^* = 0,50$

$n^* = 1,0$

Schwarzheit  $n^*$ 

relative Buntheit  $c^*$

0,25 0,50 0,75 1,00

$n^* = 0,00$

$n^* = 0,50$

$n^* = 1,0$

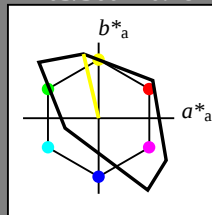
Schwarzheit  $n^*$

### Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 103/360 = 0.287$   
 $lab^*ch$  und  $lab^*nch$

D65: Buntton Y  
LCH\*Ma: 93 87 103  
olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 118$   
%Regularität  
 $g^*_{H,rel} = 22$   
 $g^*_{C,rel} = 40$

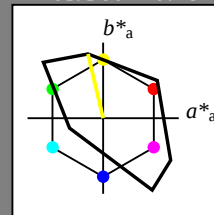
| TLS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <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          |

### Ausgabe: Farbmétrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 103/360 = 0.287$   
 $lab^*ch$  und  $lab^*nch$

D65: Buntton Y  
LCH\*Ma: 93 87 103  
olv\*Ma: 1.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 118$   
%Regularität  
 $g^*_{H,rel} = 22$   
 $g^*_{C,rel} = 40$

| 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          |

**relative Inform. Technology (IT)**  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

**relative Inform. Technology (IT)**  
olvi3\* 1.0 1.0 0.5 (1.0)  
cmyn3\* 0.0 0.0 0.5 (0.0)  
olvi4\* 1.0 1.0 0.5 1.0  
cmyn4\* 0.0 0.0 0.5 0.0  
**standard and adapted CIELAB**  
LAB\*LAB 94.07 -10.0 42.48  
LAB\*LABa 94.07 -10.0 42.48  
LAB\*TCHa 75.0 43.64 103.26  
**relative CIELAB lab\***  
lab\*lab 0.983 -0.114 0.487  
lab\*tch 0.75 0.5 0.287  
lab\*nch 0.0 0.5 0.287  
**relative Natural Colour (NC)**  
lab\*lrj 0.983 -0.121 0.485  
lab\*tce 0.75 0.5 0.289  
lab\*nce 0.0 0.5 j15g

**relative Inform. Technology (IT)**  
olvi3\* 1.0 1.0 0.0 (1.0)  
cmyn3\* 0.0 0.0 1.0 (0.0)  
olvi4\* 1.0 1.0 0.0 1.0  
cmyn4\* 0.0 0.0 1.0 0.0  
**standard and adapted CIELAB**  
LAB\*LAB 92.73 -20.02 84.95  
LAB\*LABa 92.73 -20.02 84.95  
LAB\*TCHa 50.0 87.28 103.26  
**relative CIELAB lab\***  
lab\*lab 0.965 -0.228 0.973  
lab\*tch 0.5 1.0 0.287  
lab\*nch 0.0 1.0 0.287  
**relative Natural Colour (NC)**  
lab\*lrj 0.965 -0.243 0.97  
lab\*tce 0.5 1.0 0.289  
lab\*nce 0.0 1.0 j15g

**relative Inform. Technology (IT)**  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

**relative Inform. Technology (IT)**  
olvi3\* 0.5 0.5 0.0 (1.0)  
cmyn3\* 0.5 0.5 1.0 (0.0)  
olvi4\* 1.0 1.0 0.5 0.5  
cmyn4\* 0.0 0.0 0.5 0.5  
**standard and adapted CIELAB**  
LAB\*LAB 55.38 -10.0 42.48  
LAB\*LABa 55.38 -10.0 42.48  
LAB\*TCHa 25.01 43.64 103.26  
**relative CIELAB lab\***  
lab\*lab 0.483 -0.114 0.487  
lab\*tch 0.25 0.5 0.287  
lab\*nch 0.5 0.5 0.287  
**relative Natural Colour (NC)**  
lab\*lrj 0.483 -0.121 0.485  
lab\*tce 0.25 0.5 0.289  
lab\*nce 0.5 0.5 j15g

**relative Inform. Technology (IT)**  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

$n^* = 0.00$   
Schwarzheit  $n^*$   
relative Buntheit  $c^*$   
 $n^* = 0.50$   
 $n^* = 1.0$

$n^* = 0.00$   
Schwarzheit  $n^*$   
relative Buntheit  $c^*$   
 $n^* = 0.50$   
 $n^* = 1.0$

**relative Inform. Technology (IT)**  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

Siehe ähnliche Dateien: <http://www.ps.bam.de/NG09/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM-Registrierung: 20060101-NG09/10Q/Q09G01SP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 2/10, Serie: 1/1, Seite: 2  
Satzanzahlung 2

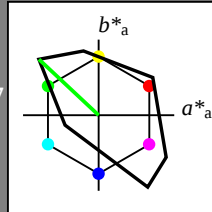
### Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 137/360 = 0.38$

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

D65: Buntton L  
LCH\*Ma: 84 108 137  
olv\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 118$   
%Regularität  
 $g^*_{H,rel} = 22$   
 $g^*_{C,rel} = 40$

| 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          |

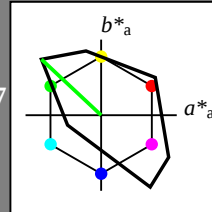
### Ausgabe: Farbmétrisches Fernseh-Licht-System TLS18

für Buntton  $h^* = lab^*h = 137/360 = 0.38$

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

D65: Buntton L  
LCH\*Ma: 84 108 137  
olv\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang  
 $u^*_{rel} = 118$   
%Regularität  
 $g^*_{H,rel} = 22$   
 $g^*_{C,rel} = 40$

| 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          |

| relative Inform. Technology (IT) |       |      |     |       |  |
|----------------------------------|-------|------|-----|-------|--|
| olvi3*                           | 1.0   | 1.0  | 1.0 | (1.0) |  |
| cmyn3*                           | 0.0   | 0.0  | 0.0 | (0.0) |  |
| olvi4*                           | 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*TCHa                         | 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*lrj                          | 1.0   | 0.0  | 0.0 |       |  |
| lab*tce                          | 1.0   | 0.0  | -   |       |  |
| lab*nce                          | 0.0   | 0.0  | -   |       |  |

| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.5   | 1.0    | 0.5    | (1.0) |  |
| cmyn3*                           | 0.5   | 0.0    | 0.5    | (0.0) |  |
| olvi4*                           | 0.5   | 1.0    | 0.5    | 1.0   |  |
| cmyn4*                           | 0.5   | 0.0    | 0.5    | 0.0   |  |
| standard and adapted CIELAB      |       |        |        |       |  |
| LAB*LAB                          | 89.7  | -39.48 | 36.96  |       |  |
| LAB*LABa                         | 89.7  | -39.48 | 36.96  |       |  |
| LAB*TCHa                         | 75.0  | 54.09  | 136.89 |       |  |
| relative CIELAB lab*             |       |        |        |       |  |
| lab*lab                          | 0.926 | -0.364 | 0.342  |       |  |
| lab*tch                          | 0.75  | 0.5    | 0.38   |       |  |
| lab*nch                          | 0.0   | 0.5    | 0.38   |       |  |
| relative Natural Colour (NC)     |       |        |        |       |  |
| lab*lrj                          | 0.926 | -0.42  | 0.269  |       |  |
| lab*tce                          | 0.75  | 0.5    | 0.409  |       |  |
| lab*nce                          | 0.0   | 0.5    | 0.63g  |       |  |

| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.0   | 1.0    | 0.0    | (1.0) |  |
| cmyn3*                           | 1.0   | 0.0    | 1.0    | (0.0) |  |
| olvi4*                           | 0.0   | 1.0    | 0.0    | 1.0   |  |
| cmyn4*                           | 1.0   | 0.0    | 1.0    | 0.0   |  |
| standard and adapted CIELAB      |       |        |        |       |  |
| LAB*LAB                          | 83.99 | -78.96 | 73.93  |       |  |
| LAB*LABa                         | 83.99 | -78.96 | 73.93  |       |  |
| LAB*TCHa                         | 50.0  | 108.18 | 136.89 |       |  |
| relative CIELAB lab*             |       |        |        |       |  |
| lab*lab                          | 0.853 | -0.729 | 0.683  |       |  |
| lab*tch                          | 0.5   | 1.0    | 0.38   |       |  |
| lab*nch                          | 0.0   | 1.0    | 0.38   |       |  |
| relative Natural Colour (NC)     |       |        |        |       |  |
| lab*lrj                          | 0.853 | -0.841 | 0.539  |       |  |
| lab*tce                          | 0.5   | 1.0    | 0.409  |       |  |
| lab*nce                          | 0.0   | 1.0    | 0.63g  |       |  |

| relative Inform. Technology (IT) |       |      |     |       |  |
|----------------------------------|-------|------|-----|-------|--|
| olvi3*                           | 0.5   | 0.5  | 0.5 | (1.0) |  |
| cmyn3*                           | 0.5   | 0.5  | 0.5 | (0.0) |  |
| olvi4*                           | 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*TCHa                         | 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*lrj                          | 0.5   | 0.0  | 0.0 |       |  |
| lab*tce                          | 0.5   | 0.0  | -   |       |  |
| lab*nce                          | 0.5   | 0.0  | -   |       |  |

| relative Inform. Technology (IT) |       |      |     |       |  |
|----------------------------------|-------|------|-----|-------|--|
| olvi3*                           | 0.0   | 0.0  | 0.0 | (1.0) |  |
| cmyn3*                           | 1.0   | 1.0  | 1.0 | (0.0) |  |
| olvi4*                           | 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*TCHa                         | 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*lrj                          | 0.0   | 0.0  | 0.0 |       |  |
| lab*tce                          | 0.0   | 0.0  | -   |       |  |
| lab*nce                          | 1.0   | 0.0  | -   |       |  |

| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.0   | 0.5    | 0.0    | (1.0) |  |
| cmyn3*                           | 0.25  | 0.5    | 1.0    | (0.0) |  |
| olvi4*                           | 0.5   | 1.0    | 0.5    | 0.5   |  |
| cmyn4*                           | 0.5   | 0.0    | 0.5    | 0.5   |  |
| standard and adapted CIELAB      |       |        |        |       |  |
| LAB*LAB                          | 51.01 | -39.48 | 36.96  |       |  |
| LAB*LABa                         | 51.01 | -39.48 | 36.96  |       |  |
| LAB*TCHa                         | 25.01 | 54.09  | 136.89 |       |  |
| relative CIELAB lab*             |       |        |        |       |  |
| lab*lab                          | 0.426 | -0.364 | 0.342  |       |  |
| lab*tch                          | 0.25  | 0.5    | 0.38   |       |  |
| lab*nch                          | 0.5   | 0.5    | 0.38   |       |  |
| relative Natural Colour (NC)     |       |        |        |       |  |
| lab*lrj                          | 0.426 | -0.42  | 0.269  |       |  |
| lab*tce                          | 0.25  | 0.5    | 0.409  |       |  |
| lab*nce                          | 0.5   | 0.5    | 0.63g  |       |  |

| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.0   | 1.0    | 0.0    | (1.0) |  |
| cmyn3*                           | 1.0   | 0.0    | 1.0    | (0.0) |  |
| olvi4*                           | 0.0   | 1.0    | 0.0    | 1.0   |  |
| cmyn4*                           | 1.0   | 0.0    | 1.0    | 0.0   |  |
| standard and adapted CIELAB      |       |        |        |       |  |
| LAB*LAB                          | 83.99 | -78.96 | 73.93  |       |  |
| LAB*LABa                         | 83.99 | -78.96 | 73.93  |       |  |
| LAB*TCHa                         | 50.0  | 108.18 | 136.89 |       |  |
| relative CIELAB lab*             |       |        |        |       |  |
| lab*lab                          | 0.853 | -0.729 | 0.683  |       |  |
| lab*tch                          | 0.5   | 1.0    | 0.38   |       |  |
| lab*nch                          | 0.0   | 1.0    | 0.38   |       |  |
| relative Natural Colour (NC)     |       |        |        |       |  |
| lab*lrj                          | 0.853 | -0.841 | 0.539  |       |  |
| lab*tce                          | 0.5   | 1.0    | 0.409  |       |  |
| lab*nce                          | 0.0   | 1.0    | 0.63g  |       |  |

Siehe ähnliche Dateien: <http://www.ps.bam.de/NG09/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM-Registrierung: 20060101-NG09/10Q/Q09G02SP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 3/10, Serie: 1/1, Seite: 3  
Satzzeichnung 3

NG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 137/360 = 0.38 (links)

3 stufige Reihen für konstanten CIELAB Buntton 137/360 = 0.38 (rechts)

BAM-Prüfvorlage NG09; Farbmétrik-Systeme ORS18 & ORS18input: olv\* setrgbcolor

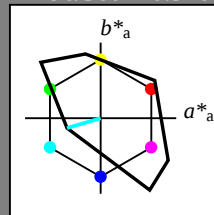
D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: Startup (S) data dependend

### Eingabe: Farbmétrisches 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  $t^*$



%Umfang  
 $u^*_{rel} = 118$   
%Regularität  
 $g^*_{H,rel} = 22$   
 $g^*_{C,rel} = 40$

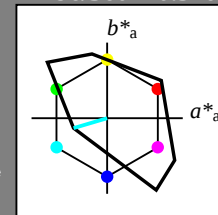
| TLS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <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          |

### Ausgabe: Farbmétrisches 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  $t^*$



%Umfang  
 $u^*_{rel} = 118$   
%Regularität  
 $g^*_{H,rel} = 22$   
 $g^*_{C,rel} = 40$

| 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          |

| relative Inform. Technology (IT) |       |      |     |       |  |
|----------------------------------|-------|------|-----|-------|--|
| olvi3*                           | 1.0   | 1.0  | 1.0 | (1.0) |  |
| cmyn3*                           | 0.0   | 0.0  | 0.0 | (0.0) |  |
| olvi4*                           | 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*TCa                          | 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*lrj                          | 1.0   | 0.0  | 0.0 |       |  |
| lab*tce                          | 1.0   | 0.0  | -   |       |  |
| lab*nce                          | 0.0   | 0.0  | -   |       |  |

| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.5   | 1.0    | 1.0    | (1.0) |  |
| cmyn3*                           | 0.5   | 0.0    | 0.0    | (0.0) |  |
| olvi4*                           | 0.5   | 1.0    | 1.0    | 1.0   |  |
| cmyn4*                           | 0.5   | 0.0    | 0.0    | 0.0   |  |
| standard and adapted CIELAB      |       |        |        |       |  |
| LAB*LAB                          | 91.27 | -22.2  | -6.55  |       |  |
| LAB*LABa                         | 91.27 | -22.2  | -6.55  |       |  |
| LAB*TCa                          | 75.0  | 23.15  | 196.46 |       |  |
| relative CIELAB lab*             |       |        |        |       |  |
| lab*lab                          | 0.946 | -0.478 | -0.141 |       |  |
| lab*tch                          | 0.75  | 0.5    | 0.546  |       |  |
| lab*nch                          | 0.0   | 0.5    | 0.546  |       |  |
| relative Natural Colour (NC)     |       |        |        |       |  |
| lab*lrj                          | 0.946 | -0.44  | -0.235 |       |  |
| lab*tce                          | 0.75  | 0.5    | 0.578  |       |  |
| lab*nce                          | 0.0   | 0.5    | g31b   |       |  |

| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.0   | 1.0    | 1.0    | (1.0) |  |
| cmyn3*                           | 1.0   | 0.0    | 0.0    | (0.0) |  |
| olvi4*                           | 0.0   | 1.0    | 1.0    | 1.0   |  |
| cmyn4*                           | 1.0   | 0.0    | 0.0    | 0.0   |  |
| standard and adapted CIELAB      |       |        |        |       |  |
| LAB*LAB                          | 87.13 | -44.4  | -13.11 |       |  |
| LAB*LABa                         | 87.13 | -44.4  | -13.11 |       |  |
| LAB*TCa                          | 50.0  | 46.31  | 196.46 |       |  |
| relative CIELAB lab*             |       |        |        |       |  |
| lab*lab                          | 0.893 | -0.958 | -0.282 |       |  |
| lab*tch                          | 0.5   | 1.0    | 0.546  |       |  |
| lab*nch                          | 0.0   | 1.0    | 0.546  |       |  |
| relative Natural Colour (NC)     |       |        |        |       |  |
| lab*lrj                          | 0.893 | -0.881 | -0.47  |       |  |
| lab*tce                          | 0.5   | 1.0    | 0.578  |       |  |
| lab*nce                          | 0.0   | 1.0    | g31b   |       |  |

| relative Inform. Technology (IT) |       |      |     |       |  |
|----------------------------------|-------|------|-----|-------|--|
| olvi3*                           | 0.0   | 0.0  | 0.0 | (1.0) |  |
| cmyn3*                           | 1.0   | 1.0  | 1.0 | (0.0) |  |
| olvi4*                           | 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*TCa                          | 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*lrj                          | 0.0   | 0.0  | 0.0 |       |  |
| lab*tce                          | 0.0   | 0.0  | -   |       |  |
| lab*nce                          | 1.0   | 0.0  | -   |       |  |

| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.0   | 0.5    | 0.5    | (1.0) |  |
| cmyn3*                           | 1.0   | 0.5    | 0.5    | (0.0) |  |
| olvi4*                           | 0.5   | 1.0    | 1.0    | 0.5   |  |
| cmyn4*                           | 0.5   | 0.0    | 0.0    | 0.5   |  |
| standard and adapted CIELAB      |       |        |        |       |  |
| LAB*LAB                          | 52.58 | -22.2  | -6.55  |       |  |
| LAB*LABa                         | 52.58 | -22.2  | -6.55  |       |  |
| LAB*TCa                          | 25.01 | 23.15  | 196.46 |       |  |
| relative CIELAB lab*             |       |        |        |       |  |
| lab*lab                          | 0.447 | -0.478 | -0.141 |       |  |
| lab*tch                          | 0.25  | 0.5    | 0.546  |       |  |
| lab*nch                          | 0.5   | 0.5    | 0.546  |       |  |
| relative Natural Colour (NC)     |       |        |        |       |  |
| lab*lrj                          | 0.447 | -0.44  | -0.235 |       |  |
| lab*tce                          | 0.25  | 0.5    | 0.578  |       |  |
| lab*nce                          | 0.5   | 0.5    | g31b   |       |  |

| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.0   | 1.0    | 1.0    | (1.0) |  |
| cmyn3*                           | 1.0   | 0.0    | 0.0    | (0.0) |  |
| olvi4*                           | 0.0   | 1.0    | 1.0    | 1.0   |  |
| cmyn4*                           | 1.0   | 0.0    | 0.0    | 0.0   |  |
| standard and adapted CIELAB      |       |        |        |       |  |
| LAB*LAB                          | 87.13 | -44.4  | -13.11 |       |  |
| LAB*LABa                         | 87.13 | -44.4  | -13.11 |       |  |
| LAB*TCa                          | 50.0  | 46.31  | 196.46 |       |  |
| relative CIELAB lab*             |       |        |        |       |  |
| lab*lab                          | 0.893 | -0.958 | -0.282 |       |  |
| lab*tch                          | 0.5   | 1.0    | 0.546  |       |  |
| lab*nch                          | 0.0   | 1.0    | 0.546  |       |  |
| relative Natural Colour (NC)     |       |        |        |       |  |
| lab*lrj                          | 0.893 | -0.881 | -0.47  |       |  |
| lab*tce                          | 0.5   | 1.0    | 0.578  |       |  |
| lab*nce                          | 0.0   | 1.0    | g31b   |       |  |

Siehe ähnliche Dateien: <http://www.ps.bam.de/NG09/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM-Registrierung: 20060101-NG09/10Q/Q09G03SP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 4/10, Serie: 1/1, Seite: 4  
Satzanzahlung 4

NG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 196/360 = 0.546 (links)

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

BAM-Prüfvorlage NG09; Farbmétrik-Systeme ORS18 & ORS18input: olv\* setrgbcolor  
D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: Startup (S) data dependend

### Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

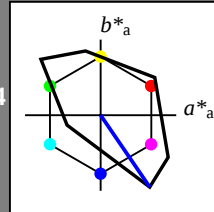
$lab^*ch$  und  $lab^*nch$

D65: Buntton V

LCH\*Ma: 35 115 304

olv\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

### 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          |

### Ausgabe: Farbmétrisches Fernseh-Licht-System TLS18

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

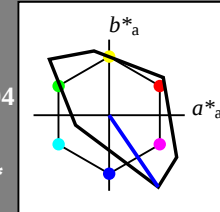
$lab^*ch$  und  $lab^*nch$

D65: Buntton V

LCH\*Ma: 35 115 304

olv\*Ma: 0.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

### 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          |

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 1.0 (1.0)  
cmyn3\* 0.5 0.5 0.0 (0.0)  
olvi4\* 0.5 0.5 1.0 1.0  
cmyn4\* 0.5 0.5 0.0 0.0

standard and adapted CIELAB  
LAB\*LAB 65.44 32.45 -47.52  
LAB\*LABa 65.44 32.45 -47.52  
LAB\*TCHa 75.0 57.55 304.33

relative CIELAB lab\*  
lab\*lab 0.613 0.282 -0.412  
lab\*tch 0.75 0.5 0.845  
lab\*nch 0.0 0.5 0.845

relative Natural Colour (NC)  
lab\*lrj 0.613 0.217 -0.449  
lab\*tce 0.75 0.5 0.822  
lab\*nce 0.0 0.5 b28r

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.5 (1.0)  
cmyn3\* 1.0 1.0 0.5 (0.0)  
olvi4\* 0.5 0.5 1.0 0.5  
cmyn4\* 0.5 0.5 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 26.75 32.45 -47.52  
LAB\*LABa 26.75 32.45 -47.52  
LAB\*TCHa 25.01 57.55 304.33

relative CIELAB lab\*  
lab\*lab 0.113 0.282 -0.412  
lab\*tch 0.25 0.5 0.845  
lab\*nch 0.5 0.5 0.845

relative Natural Colour (NC)  
lab\*lrj 0.113 0.217 -0.449  
lab\*tce 0.25 0.5 0.822  
lab\*nce 0.5 0.5 b28r

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 1.0 (1.0)  
cmyn3\* 1.0 1.0 0.0 (0.0)  
olvi4\* 0.0 0.0 1.0 1.0  
cmyn4\* 1.0 1.0 0.0 0.0

standard and adapted CIELAB  
LAB\*LAB 35.47 64.91 -95.04  
LAB\*LABa 35.47 64.91 -95.04  
LAB\*TCHa 50.0 115.1 304.33

relative CIELAB lab\*  
lab\*lab 0.226 0.564 -0.825  
lab\*tch 0.5 1.0 0.845  
lab\*nch 0.0 1.0 0.845

relative Natural Colour (NC)  
lab\*lrj 0.226 0.435 -0.899  
lab\*tce 0.5 1.0 0.822  
lab\*nce 0.0 1.0 b28r

Siehe ähnliche Dateien: <http://www.ps.bam.de/NG09/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM-Registrierung: 20060101-NG09/10Q/Q09G04SP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 5/10, Serie: 1/1, Seite: 5  
Satzanz hlung 5

NG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 304/360 = 0.845 (links)

3 stufige Reihen für konstanten CIELAB Buntton 304/360 = 0.845 (rechts)

BAM-Prüfvorlage NG09; Farbmétrik-Systeme ORS18 & ORS18input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: Startup (S) data dependend

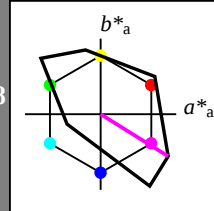
Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

D65: Buntton M

LCH\*Ma: 59 105 328

olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$ 

%Umfang

 $u^*_{rel} = 118$ 

%Regularität

 $g^*_{H,rel} = 22$  $g^*_{C,rel} = 40$ 

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          |

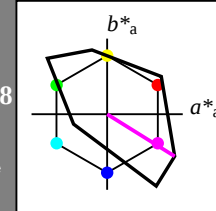
Ausgabe: Farbmétrisches Fernseh-Licht-System TLS18

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

D65: Buntton M

LCH\*Ma: 59 105 328

olv\*Ma: 1.0 0.0 1.0

Dreiecks-Helligkeit  $t^*$ 

%Umfang

 $u^*_{rel} = 118$ 

%Regularität

 $g^*_{H,rel} = 22$  $g^*_{C,rel} = 40$ 

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          |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 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*TCHa | 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*lrj | 1.0 | 0.0 | 0.0 |
| lab*tce | 1.0 | 0.0 | -   |
| lab*nce | 0.0 | 0.0 | -   |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 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*TCHa | 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*lrj | 0.5 | 0.0 | 0.0 |
| lab*tce | 0.5 | 0.0 | -   |
| lab*nce | 0.5 | 0.0 | -   |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 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*TCHa | 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*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 0.5 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.5 | 0.0 | (0.0) |
| olvi4* | 1.0 | 0.5 | 1.0 | 1.0   |
| cmyn4* | 0.0 | 0.5 | 0.0 | 0.0   |

standard and adapted CIELAB

|          |       |       |        |
|----------|-------|-------|--------|
| LAB*LAB  | 77.21 | 44.66 | -27.82 |
| LAB*LABa | 77.21 | 44.66 | -27.82 |
| LAB*TCHa | 75.0  | 52.62 | 328.06 |

relative CIELAB lab\*

|         |       |       |        |
|---------|-------|-------|--------|
| lab*lab | 0.765 | 0.424 | -0.263 |
| lab*tch | 0.75  | 0.5   | 0.911  |
| lab*nch | 0.0   | 0.5   | 0.911  |

relative Natural Colour (NC)

|         |       |       |        |
|---------|-------|-------|--------|
| lab*lrj | 0.765 | 0.351 | -0.355 |
| lab*tce | 0.75  | 0.5   | 0.874  |
| lab*nce | 0.0   | 0.5   | 0.49r  |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.0 | 0.5 | (1.0) |
| cmyn3* | 0.5 | 1.0 | 0.5 | (0.0) |
| olvi4* | 1.0 | 0.5 | 1.0 | 0.5   |
| cmyn4* | 0.0 | 0.5 | 0.0 | 0.5   |

standard and adapted CIELAB

|          |       |       |        |
|----------|-------|-------|--------|
| LAB*LAB  | 38.51 | 44.66 | -27.82 |
| LAB*LABa | 38.51 | 44.66 | -27.82 |
| LAB*TCHa | 25.01 | 52.62 | 328.06 |

relative CIELAB lab\*

|         |       |       |        |
|---------|-------|-------|--------|
| lab*lab | 0.265 | 0.424 | -0.263 |
| lab*tch | 0.25  | 0.5   | 0.911  |
| lab*nch | 0.5   | 0.5   | 0.911  |

relative Natural Colour (NC)

|         |       |       |        |
|---------|-------|-------|--------|
| lab*lrj | 0.265 | 0.351 | -0.355 |
| lab*tce | 0.25  | 0.5   | 0.874  |
| lab*nce | 0.5   | 0.5   | 0.49r  |

relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 0.0 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 1.0 | 0.0 | (0.0) |
| olvi4* | 1.0 | 0.0 | 1.0 | 1.0   |
| cmyn4* | 0.0 | 1.0 | 0.0 | 0.0   |

standard and adapted CIELAB

|          |       |        |        |
|----------|-------|--------|--------|
| LAB*LAB  | 59.01 | 89.31  | -55.66 |
| LAB*LABa | 59.01 | 89.31  | -55.66 |
| LAB*TCHa | 50.0  | 105.24 | 328.06 |

relative CIELAB lab\*

|         |      |       |        |
|---------|------|-------|--------|
| lab*lab | 0.53 | 0.848 | -0.528 |
| lab*tch | 0.5  | 1.0   | 0.911  |
| lab*nch | 0.0  | 1.0   | 0.911  |

relative Natural Colour (NC)

|         |      |       |        |
|---------|------|-------|--------|
| lab*lrj | 0.53 | 0.702 | -0.711 |
| lab*tce | 0.5  | 1.0   | 0.874  |
| lab*nce | 0.0  | 1.0   | 0.49r  |

relative Buntheit  $c^*$

0,25 0,50 0,75 1,00

$n^* = 0,00$

$n^* = 0,50$

$n^* = 1,0$

Schwarzheit  $n^*$ 

relative Buntheit  $c^*$

0,25 0,50 0,75 1,00

$n^* = 0,00$

$n^* = 0,50$

$n^* = 1,0$

Schwarzheit  $n^*$ 

NG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 328/360 = 0.911 (links)

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

BAM-Prüfvorlage NG09; Farbmétrik-Systeme ORS18 &amp; ORS18input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: Startup (S) data dependend

### Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

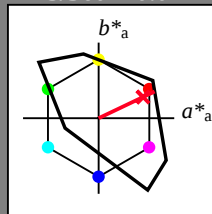
$lab^*ch$  und  $lab^*nch$

D65: Buntton R

LCH\*Ma: 54 82 25

olv\*Ma: 1.0 0.0 0.14

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

### 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          |

### Ausgabe: Farbmétrisches Fernseh-Licht-System TLS18

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

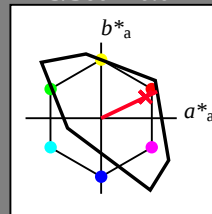
$lab^*ch$  und  $lab^*nch$

D65: Buntton R

LCH\*Ma: 54 82 25

olv\*Ma: 1.0 0.0 0.14

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

### 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          |

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 1.0 0.5 0.569 (1.0)  
cmyn3\* 0.0 0.5 0.431 (0.0)  
olvi4\* 1.0 0.5 0.569 1.0  
cmyn4\* 0.0 0.5 0.431 0.0

standard and adapted CIELAB  
LAB\*LAB 74.51 37.03 17.64  
LAB\*LABa 74.51 37.03 17.64  
LAB\*TCHa 75.0 41.02 25.48

relative CIELAB lab\*  
lab\*lab 0.73 0.451 0.215  
lab\*tch 0.75 0.5 0.071  
lab\*nch 0.0 0.5 0.071

relative Natural Colour (NC)  
lab\*lrj 0.73 0.5 0.0  
lab\*tce 0.75 0.5 1.0  
lab\*nce 0.0 0.5 0.99r

relative Inform. Technology (IT)  
olvi3\* 0.5 0.0 0.069 (1.0)  
cmyn3\* 0.5 1.0 0.931 (0.0)  
olvi4\* 1.0 0.5 0.569 0.5  
cmyn4\* 0.0 0.5 0.431 0.5

standard and adapted CIELAB  
LAB\*LAB 35.82 37.03 17.65  
LAB\*LABa 35.82 37.03 17.65  
LAB\*TCHa 25.01 41.02 25.49

relative CIELAB lab\*  
lab\*lab 0.23 0.451 0.215  
lab\*tch 0.25 0.5 0.071  
lab\*nch 0.5 0.5 0.071

relative Natural Colour (NC)  
lab\*lrj 0.23 0.5 0.0  
lab\*tce 0.25 0.5 0.0  
lab\*nce 0.5 0.5 0.00j

relative Inform. Technology (IT)  
olvi3\* 1.0 0.0 0.138 (1.0)  
cmyn3\* 0.0 1.0 0.862 (0.0)  
olvi4\* 1.0 0.0 0.138 1.0  
cmyn4\* 0.0 1.0 0.862 0.0

standard and adapted CIELAB  
LAB\*LAB 53.62 74.06 35.3  
LAB\*LABa 53.62 74.06 35.3  
LAB\*TCHa 50.0 82.04 25.48

relative CIELAB lab\*  
lab\*lab 0.46 0.903 0.43  
lab\*tch 0.5 1.0 0.071  
lab\*nch 0.0 1.0 0.071

relative Natural Colour (NC)  
lab\*lrj 0.46 1.0 0.0  
lab\*tce 0.5 1.0 0.0  
lab\*nce 0.0 1.0 0.00j

Siehe ähnliche Dateien: <http://www.ps.bam.de/NG09/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM-Registrierung: 20060101-NG09/10Q/Q09G06SP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 7/10, Serie: 1/1, Seite: 7  
Satzanzahlung 7

NG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 25/360 = 0.071 (links)

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

BAM-Prüfvorlage NG09; Farbmétrik-Systeme ORS18 & ORS18input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: Startup (S) data dependend

### Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

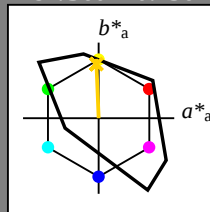
$lab^*ch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 85 79 92

olv\*Ma: 1.0 0.82 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

### 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          |

### Ausgabe: Farbmétrisches Fernseh-Licht-System TLS18

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

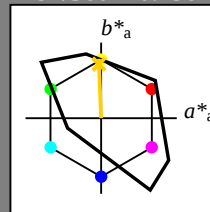
$lab^*ch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 85 79 92

olv\*Ma: 1.0 0.82 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

### 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          |

#### relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 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*TCHa | 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*lrj | 1.0 | 0.0 | 0.0 |
| lab*tce | 1.0 | 0.0 | -   |
| lab*nce | 0.0 | 0.0 | -   |

#### relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 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*TCHa | 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*lrj | 0.5 | 0.0 | 0.0 |
| lab*tce | 0.5 | 0.0 | -   |
| lab*nce | 0.5 | 0.0 | -   |

#### relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 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*TCHa | 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*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

#### relative Inform. Technology (IT)

|        |     |       |     |       |
|--------|-----|-------|-----|-------|
| olvi3* | 1.0 | 0.908 | 0.5 | (1.0) |
| cmyn3* | 0.0 | 0.092 | 0.5 | (0.0) |
| olvi4* | 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*TCHa | 75.0  | 39.29 | 92.32 |

#### relative CIELAB lab\*

|         |       |        |       |
|---------|-------|--------|-------|
| lab*lab | 0.935 | -0.019 | 0.499 |
| lab*tch | 0.75  | 0.5    | 0.256 |
| lab*nch | 0.0   | 0.5    | 0.256 |

#### relative Natural Colour (NC)

|         |       |     |      |
|---------|-------|-----|------|
| lab*lrj | 0.935 | 0.0 | 0.5  |
| lab*tce | 0.75  | 0.5 | 0.25 |
| lab*nce | 0.0   | 0.5 | j00g |

#### relative Inform. Technology (IT)

|        |     |       |     |       |
|--------|-----|-------|-----|-------|
| olvi3* | 0.5 | 0.408 | 0.0 | (1.0) |
| cmyn3* | 0.5 | 0.592 | 1.0 | (0.0) |
| olvi4* | 1.0 | 0.908 | 0.5 | 0.5   |
| cmyn4* | 0.0 | 0.092 | 0.5 | 0.5   |

#### standard and adapted CIELAB

|          |       |       |       |
|----------|-------|-------|-------|
| LAB*LAB  | 51.7  | -1.57 | 39.25 |
| LAB*LABa | 51.7  | -1.57 | 39.25 |
| LAB*TCHa | 25.01 | 39.28 | 92.31 |

#### relative CIELAB lab\*

|         |       |        |       |
|---------|-------|--------|-------|
| lab*lab | 0.435 | -0.019 | 0.499 |
| lab*tch | 0.25  | 0.5    | 0.256 |
| lab*nch | 0.5   | 0.5    | 0.256 |

#### relative Natural Colour (NC)

|         |       |     |      |
|---------|-------|-----|------|
| lab*lrj | 0.435 | 0.0 | 0.5  |
| lab*tce | 0.25  | 0.5 | 0.25 |
| lab*nce | 0.5   | 0.5 | j99j |

#### relative Inform. Technology (IT)

|        |     |       |     |       |
|--------|-----|-------|-----|-------|
| olvi3* | 1.0 | 0.816 | 0.0 | (1.0) |
| cmyn3* | 0.0 | 0.184 | 1.0 | (0.0) |
| olvi4* | 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*TCHa | 50.0  | 78.57 | 92.32 |

#### relative CIELAB lab\*

|         |      |        |       |
|---------|------|--------|-------|
| lab*lab | 0.87 | -0.039 | 0.999 |
| lab*tch | 0.5  | 1.0    | 0.256 |
| lab*nch | 0.0  | 1.0    | 0.256 |

#### relative Natural Colour (NC)

|         |      |     |      |
|---------|------|-----|------|
| lab*lrj | 0.87 | 0.0 | 1.0  |
| lab*tce | 0.5  | 1.0 | 0.25 |
| lab*nce | 0.0  | 1.0 | j00g |

Siehe ähnliche Dateien: <http://www.ps.bam.de/NG09/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM-Registrierung: 20060101-NG09/10Q/Q09G07SP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 8/10, Serie: 1/1, Seite: 8  
Satzanzahlung 8

NG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 92/360 = 0.256 (links)

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

BAM-Prüfvorlage NG09; Farbmétrik-Systeme ORS18 & ORS18input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: Startup (S) data dependant

### Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

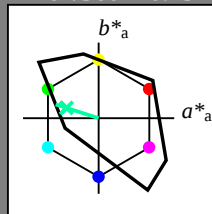
$lab^*ch$  und  $lab^*nch$

D65: Buntton G

LCH\*Ma: 86 60 162

olv\*Ma: 0.0 1.0 0.64

Dreiecks-Helligkeit  $t^*$



### 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          |

%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

### Ausgabe: Farbmétrisches Fernseh-Licht-System TLS18

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

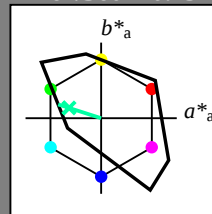
$lab^*ch$  und  $lab^*nch$

D65: Buntton G

LCH\*Ma: 86 60 162

olv\*Ma: 0.0 1.0 0.64

Dreiecks-Helligkeit  $t^*$



### 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          |

%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

### relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 1.0 | 1.0 | 1.0 | (1.0) |
| cmyn3* | 0.0 | 0.0 | 0.0 | (0.0) |
| olvi4* | 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*TCa  | 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*lrj | 1.0 | 0.0 | 0.0 |
| lab*tce | 1.0 | 0.0 | -   |
| lab*nce | 0.0 | 0.0 | -   |

### relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.5 | 0.5 | 0.5 | (1.0) |
| cmyn3* | 0.5 | 0.5 | 0.5 | (0.0) |
| olvi4* | 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*TCa  | 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*lrj | 0.5 | 0.0 | 0.0 |
| lab*tce | 0.5 | 0.0 | -   |
| lab*nce | 0.5 | 0.0 | -   |

### relative Inform. Technology (IT)

|        |     |     |     |       |
|--------|-----|-----|-----|-------|
| olvi3* | 0.0 | 0.0 | 0.0 | (1.0) |
| cmyn3* | 1.0 | 1.0 | 1.0 | (0.0) |
| olvi4* | 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*TCa  | 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*lrj | 0.0 | 0.0 | 0.0 |
| lab*tce | 0.0 | 0.0 | -   |
| lab*nce | 1.0 | 0.0 | -   |

### relative Inform. Technology (IT)

|        |     |     |      |       |
|--------|-----|-----|------|-------|
| olvi3* | 0.5 | 1.0 | 0.82 | (1.0) |
| cmyn3* | 0.5 | 0.0 | 0.18 | (0.0) |
| olvi4* | 0.5 | 1.0 | 0.82 | 1.0   |
| cmyn4* | 0.5 | 0.0 | 0.18 | 0.0   |

### standard and adapted CIELAB

|          |      |        |        |
|----------|------|--------|--------|
| LAB*LAB  | 90.7 | -28.42 | 9.11   |
| LAB*LABa | 90.7 | -28.42 | 9.11   |
| LAB*TCa  | 75.0 | 29.85  | 162.23 |

### relative CIELAB lab\*

|         |       |        |       |
|---------|-------|--------|-------|
| lab*lab | 0.939 | -0.475 | 0.153 |
| lab*tch | 0.75  | 0.5    | 0.451 |
| lab*nch | 0.0   | 0.5    | 0.451 |

### relative Natural Colour (NC)

|         |       |        |      |
|---------|-------|--------|------|
| lab*lrj | 0.939 | -0.499 | 0.0  |
| lab*tce | 0.75  | 0.5    | 0.5  |
| lab*nce | 0.0   | 0.5    | g00b |

### relative Inform. Technology (IT)

|        |     |     |      |       |
|--------|-----|-----|------|-------|
| olvi3* | 0.0 | 0.5 | 0.32 | (1.0) |
| cmyn3* | 1.0 | 0.5 | 0.68 | (0.0) |
| olvi4* | 0.5 | 1.0 | 0.82 | 0.5   |
| cmyn4* | 0.5 | 0.0 | 0.18 | 0.5   |

### standard and adapted CIELAB

|          |       |        |        |
|----------|-------|--------|--------|
| LAB*LAB  | 52.01 | -28.42 | 9.12   |
| LAB*LABa | 52.01 | -28.42 | 9.12   |
| LAB*TCa  | 25.01 | 29.86  | 162.22 |

### relative CIELAB lab\*

|         |       |        |       |
|---------|-------|--------|-------|
| lab*lab | 0.439 | -0.475 | 0.153 |
| lab*tch | 0.25  | 0.5    | 0.451 |
| lab*nch | 0.5   | 0.5    | 0.451 |

### relative Natural Colour (NC)

|         |       |        |      |
|---------|-------|--------|------|
| lab*lrj | 0.439 | -0.499 | 0.0  |
| lab*tce | 0.25  | 0.5    | 0.5  |
| lab*nce | 0.5   | 0.5    | g99g |

### relative Inform. Technology (IT)

|        |     |     |      |       |
|--------|-----|-----|------|-------|
| olvi3* | 0.0 | 1.0 | 0.64 | (1.0) |
| cmyn3* | 1.0 | 0.0 | 0.36 | (0.0) |
| olvi4* | 0.0 | 1.0 | 0.64 | 1.0   |
| cmyn4* | 1.0 | 0.0 | 0.36 | 0.0   |

### standard and adapted CIELAB

|          |      |        |        |
|----------|------|--------|--------|
| LAB*LAB  | 86.0 | -56.85 | 18.23  |
| LAB*LABa | 86.0 | -56.85 | 18.23  |
| LAB*TCa  | 50.0 | 59.71  | 162.23 |

### relative CIELAB lab\*

|         |       |        |       |
|---------|-------|--------|-------|
| lab*lab | 0.878 | -0.951 | 0.305 |
| lab*tch | 0.5   | 1.0    | 0.451 |
| lab*nch | 0.0   | 1.0    | 0.451 |

### relative Natural Colour (NC)

|         |       |        |      |
|---------|-------|--------|------|
| lab*lrj | 0.878 | -0.999 | 0.0  |
| lab*tce | 0.5   | 1.0    | 0.5  |
| lab*nce | 0.0   | 1.0    | g00b |

Siehe ähnliche Dateien: <http://www.ps.bam.de/NG09/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM-Registrierung: 20060101-NG09/10Q/Q09G08SP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 9/10, Serie: 1/1, Seite: 9  
Satzanzahl: 9

NG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 162/360 = 0.451 (links)

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

BAM-Prüfvorlage NG09; Farbmétrik-Systeme ORS18 & ORS18input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: Startup (S) data dependend

### Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

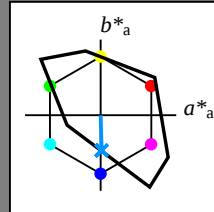
$lab^*ch$  und  $lab^*nch$

D65: Buntton B

LCH\*Ma: 65 48 272

olv\*Ma: 0.0 0.58 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

### 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          |

### Ausgabe: Farbmétrisches Fernseh-Licht-System TLS18

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

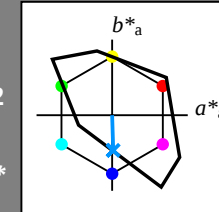
$lab^*ch$  und  $lab^*nch$

D65: Buntton B

LCH\*Ma: 65 48 272

olv\*Ma: 0.0 0.58 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

### 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          |

relative Inform. Technology (IT)  
olvi3\* 1.0 1.0 1.0 (1.0)  
cmyn3\* 0.0 0.0 0.0 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 1.0 0.0 0.0  
lab\*tce 1.0 0.0 -  
lab\*nce 0.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.5 0.5 (1.0)  
cmyn3\* 0.5 0.5 0.5 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 0.5 0.0 0.0  
lab\*tce 0.5 0.0 -  
lab\*nce 0.5 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.0 0.0 0.0 (1.0)  
cmyn3\* 1.0 1.0 1.0 (0.0)  
olvi4\* 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\*TCHa 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\*lrj 0.0 0.0 0.0  
lab\*tce 0.0 0.0 -  
lab\*nce 1.0 0.0 -

relative Inform. Technology (IT)  
olvi3\* 0.5 0.79 1.0 (1.0)  
cmyn3\* 0.5 0.21 0.0 (0.0)  
olvi4\* 0.5 0.79 1.0 1.0  
cmyn4\* 0.5 0.21 0.0 0.0

standard and adapted CIELAB  
LAB\*LAB 80.44 0.71 -23.73  
LAB\*LABa 80.44 0.71 -23.73  
LAB\*TCHa 75.0 23.75 271.72

relative CIELAB lab\*  
lab\*lab 0.807 0.015 -0.499  
lab\*tch 0.75 0.5 0.755  
lab\*nch 0.0 0.5 0.755

relative Natural Colour (NC)  
lab\*lrj 0.807 0.0 -0.499  
lab\*tce 0.75 0.5 0.75  
lab\*nce 0.0 0.5 g99b

relative Inform. Technology (IT)  
olvi3\* 0.0 0.29 0.5 (1.0)  
cmyn3\* 1.0 0.71 0.5 (0.0)  
olvi4\* 0.5 0.79 1.0 0.5  
cmyn4\* 0.5 0.21 0.0 0.5

standard and adapted CIELAB  
LAB\*LAB 41.74 0.72 -23.74  
LAB\*LABa 41.74 0.72 -23.74  
LAB\*TCHa 25.01 23.76 271.75

relative CIELAB lab\*  
lab\*lab 0.307 0.015 -0.499  
lab\*tch 0.25 0.5 0.755  
lab\*nch 0.5 0.5 0.755

relative Natural Colour (NC)  
lab\*lrj 0.307 0.0 -0.499  
lab\*tce 0.25 0.5 0.75  
lab\*nce 0.5 0.5 b00r

relative Inform. Technology (IT)  
olvi3\* 0.0 0.581 1.0 (1.0)  
cmyn3\* 1.0 0.419 0.0 (0.0)  
olvi4\* 0.0 0.581 1.0 1.0  
cmyn4\* 1.0 0.419 0.0 0.0

standard and adapted CIELAB  
LAB\*LAB 65.47 1.44 -47.47  
LAB\*LABa 65.47 1.44 -47.47  
LAB\*TCHa 50.0 47.5 271.74

relative CIELAB lab\*  
lab\*lab 0.613 0.03 -0.998  
lab\*tch 0.5 1.0 0.755  
lab\*nch 0.0 1.0 0.755

relative Natural Colour (NC)  
lab\*lrj 0.613 0.0 -0.999  
lab\*tce 0.5 1.0 0.75  
lab\*nce 0.0 1.0 g99b

Siehe ähnliche Dateien: <http://www.ps.bam.de/NG09/>  
Technische Information: <http://www.ps.bam.de> Version 2.1, io=1,1?

BAM-Registrierung: 20060101-NG09/10Q/Q09G09SP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 10/05 Serie: 1/1, Seite: 10  
Satzanzahlung 10

NG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 272/360 = 0.755 (links)

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

BAM-Prüfvorlage NG09; Farbmétrik-Systeme ORS18 & ORS18input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: Startup (S) data dependend