

Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

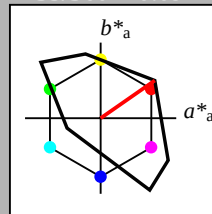
$lab^*tch$  und  $lab^*nch$

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

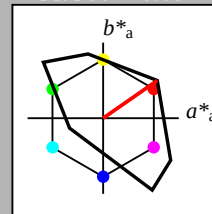
$lab^*tch$  und  $lab^*nch$

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

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

BAM-Registrierung: 20060101-NG09/10Q/Q09G00FP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 1/10, Serie: 1/1, Seite: 1  
Satzanzahlung 1

NG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 35/360 = 0.097 (links)

3 stufige Reihen für konstanten CIELAB Buntton 35/360 = 0.097 (rechts)

BAM-Prüfvorlage NG09; Farbmétrik-Systeme TLS18 & TLS18 input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: olv\* setrgbcolor / w\* setgray

Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

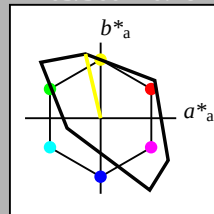
$lab^*ch$  und  $lab^*nch$

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

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|---------|---------|--------------|--------------|
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| 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  $h^* = lab^*h = 103/360 = 0.287$

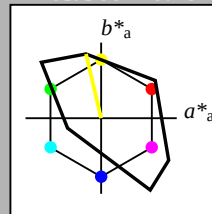
$lab^*ch$  und  $lab^*nch$

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\* 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 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\* 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

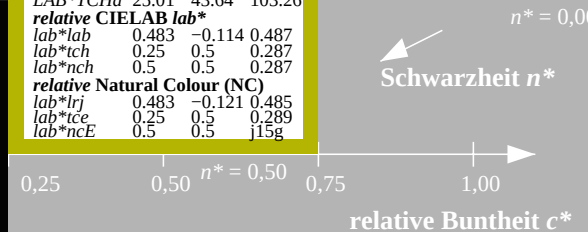
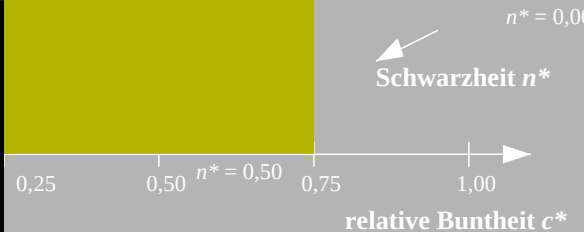
relative Natural Colour (NC)  
lab\*lrj 0.483 -0.121 0.485  
lab\*tce 0.25 0.5 0.289  
lab\*nce 0.5 0.5 j15g

relative Inform. Technology (IT)  
olvi3\* 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



NG090-7, 3 stufige Reihen für konstanten CIELAB Buntton 103/360 = 0.287 (links)

3 stufige Reihen für konstanten CIELAB Buntton 103/360 = 0.287 (rechts)

BAM-Prüfvorlage NG09; Farbmétrik-Systeme TLS18 & TLS18 input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: olv\* setrgbcolor / w\* setgray

Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

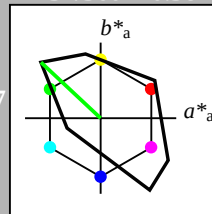
$lab^*ch$  und  $lab^*nch$

D65: Buntton L

LCH\*Ma: 84 108 137

olv\*Ma: 0.0 1.0 0.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

%Regularität

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

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TLS18; adaptierte CIELAB-Daten

|                  | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
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| W <sub>Ma</sub>  | 95.41       | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub> | 39.92       | 58.74   | 27.99   | 65.07        | 25           |
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Ausgabe: Farbmétrisches Fernseh-Licht-System TLS18

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

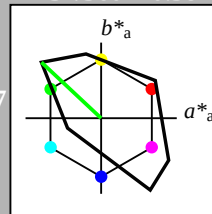
$lab^*ch$  und  $lab^*nch$

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          |
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| V <sub>Ma</sub>  | 35.47       | 64.92   | -95.06  | 115.12       | 304          |
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| N <sub>Ma</sub>  | 18.01       | 0.0     | 0.0     | 0.0          | 0            |
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| 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\*ch 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\*ch 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\*ch 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 0.5 (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\*TCa 75.0 54.09 136.89

relative CIELAB lab\*  
lab\*lab 0.926 -0.364 0.342  
lab\*ch 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 0.5 0.0 (1.0)  
cmyn3\* 1.0 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\*TCa 25.01 54.09 136.89

relative CIELAB lab\*  
lab\*lab 0.426 -0.364 0.342  
lab\*ch 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\*TCa 50.0 108.18 136.89

relative CIELAB lab\*  
lab\*lab 0.853 -0.729 0.683  
lab\*ch 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, CIELAB

BAM-Registrierung: 20060101-NG09/10Q/Q09G02FP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 3/10, Serie: 1/1, Seite: 3  
Satzanzahlung 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 TLS18 & TLS18 input: olv\* setrgbcolor

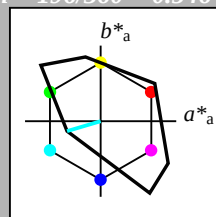
D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: olv\* setrgbcolor / w\* setgray

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

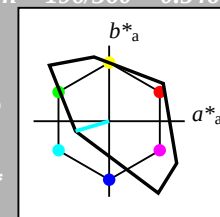
| TLS18; adaptierte CIELAB-Daten |             |         |         |              |              |
|--------------------------------|-------------|---------|---------|--------------|--------------|
|                                | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O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

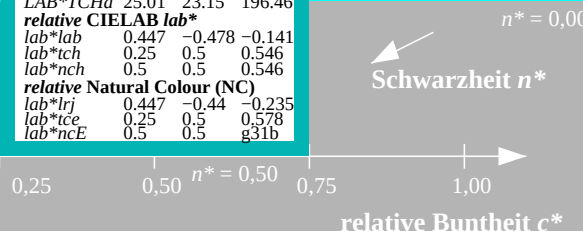
| relative Inform. Technology (IT) |       |        |        |       |  |
|----------------------------------|-------|--------|--------|-------|--|
| olvi3*                           | 0.5   | 1.0    | 1.0    | (1.0) |  |
| cmyn3*                           | 0.5   | 0.0    | 0.0    | (0.0) |  |
| olvi4*                           | 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*                           | 0.5   | 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   | 0.5    | 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   | 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 | 0.0   |  |
| 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   | 0.0  | 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 | 0.0   |  |
| 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   | 0.0  | 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 | 0.0   |  |
| 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  | -   |       |  |

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 TLS18 & TLS18 input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: olv\* setrgbcolor / w\* setgray



Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

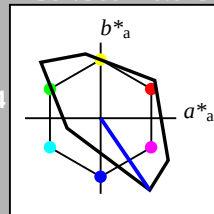
$lab^*ch$  und  $lab^*nch$

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

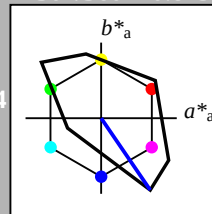
$lab^*ch$  und  $lab^*nch$

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

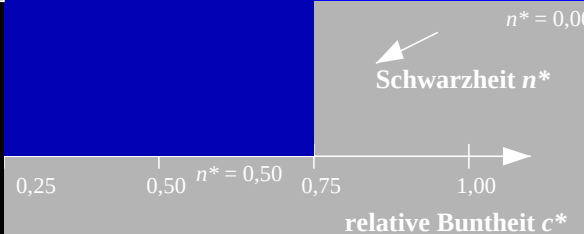
relative Natural Colour (NC)  
lab\*lrj 0.113 0.217 -0.449  
lab\*tce 0.25 0.5 0.822  
lab\*nce 0.5 0.5 b28r

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

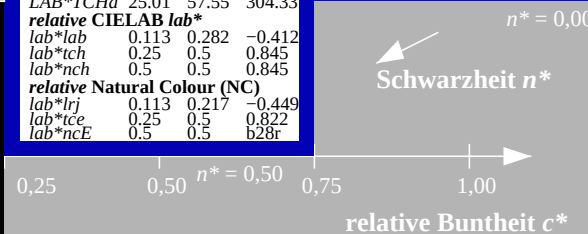
relative CIELAB lab\*  
lab\*lab 0.226 0.564 -0.825  
lab\*tch 0.5 1.0 0.845  
lab\*nch 0.0 1.0 0.845

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



Schwarzheit  $n^*$

relative Buntheit  $c^*$



Schwarzheit  $n^*$

relative Buntheit  $c^*$

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 TLS18 & TLS18 input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: olv\* setrgbcolor / w\* setgray

Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

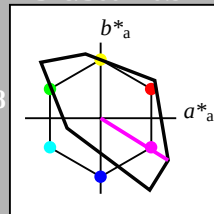
$lab^*ch$  und  $lab^*nch$

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

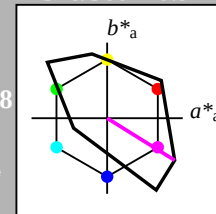
$lab^*ch$  und  $lab^*nch$

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\*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\* 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\*TCa 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 b49r

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\*TCa 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 b49r

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\*TCa 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 b49r

relative Buntheit  $c^*$

Schwarzheit  $n^*$

$n^* = 0.00$

$n^* = 0.50$

$n^* = 1.0$

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 TLS18 & TLS18 input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: olv\* setrgbcolor / w\* setgray

Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

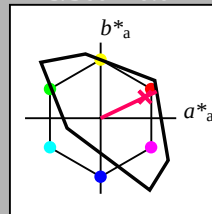
$lab^*tch$  und  $lab^*nch$

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

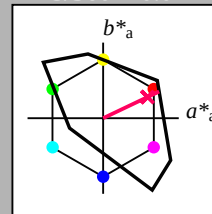
$lab^*tch$  und  $lab^*nch$

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, CIELAB

BAM-Registrierung: 20060101-NG09/10Q/Q09G06FP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 7/10, Serie: 1/1, Seite: 7  
Satzanz hlung 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 TLS18 & TLS18 input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: olv\* setrgbcolor / w\* setgray

Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

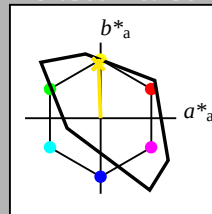
$lab^*tch$  und  $lab^*nch$

D65: Buntton J

LCH\*Ma: 85 79 92

olv\*Ma: 1.0 0.82 0.0

Dreiecks-Helligkeit  $t^*$



%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  $h^* = lab^*h = 92/360 = 0.256$

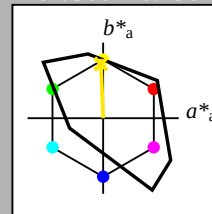
$lab^*tch$  und  $lab^*nch$

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, CIELAB

BAM-Registrierung: 20060101-NG09/10Q/Q09G07FP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorssystemen  
/NG09/ Form: 8/10, Serie: 1/1, Seite: 8  
Satzanz hlung 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 TLS18 & TLS18 input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: olv\* setrgbcolor / w\* setgray



Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

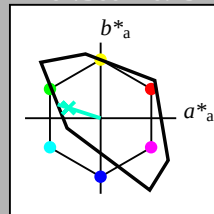
$lab^*tch$  und  $lab^*nch$

D65: Buntton G

LCH\*Ma: 86 60 162

olv\*Ma: 0.0 1.0 0.64

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

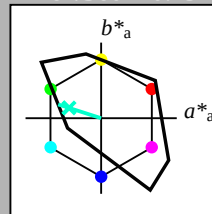
$lab^*tch$  und  $lab^*nch$

D65: Buntton G

LCH\*Ma: 86 60 162

olv\*Ma: 0.0 1.0 0.64

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 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\*TCHa 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\*TCHa 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\*TCHa 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, CIELAB

BAM-Registrierung: 20060101-NG09/10Q/Q09G08FP.PS/.PDF BAM-Material: Code=rha4ta  
Anwendung für Beurteilung und Messung von Drucker- oder Monitorsystemen  
/NG09/ Form: 9/10, Serie: 1/1, Seite: 9  
Satzanz hlung 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 TLS18 & TLS18 input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: olv\* setrgbcolor / w\* setgray

Eingabe: Farbmétrisches Fernseh-Licht-System TLS18

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

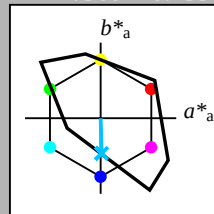
$lab^*ch$  und  $lab^*nch$

D65: Buntton B

LCH\*Ma: 65 48 272

olv\*Ma: 0.0 0.58 1.0

Dreiecks-Helligkeit  $t^*$



| 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  $h^* = lab^*h = 272/360 = 0.755$

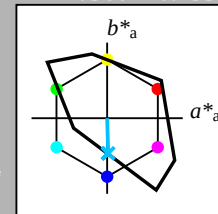
$lab^*ch$  und  $lab^*nch$

D65: Buntton B

LCH\*Ma: 65 48 272

olv\*Ma: 0.0 0.58 1.0

Dreiecks-Helligkeit  $t^*$



%Umfang

$u^*_{rel} = 118$

%Regularität

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

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

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 | -   |

| 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* | 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*TCa  | 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*TCa  | 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*TCa  | 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   |

$n^* = 0.00$

Schwarzheit  $n^*$

$n^* = 0.00$

Schwarzheit  $n^*$

BAM-Prüfvorlage NG09; Farbmétrische Systeme TLS18 & TLS18 input: olv\* setrgbcolor

D65: 3stufige Farbreihen und Koordinatendaten für 10 Bunttöne output: olv\* setrgbcolor / w\* setgray