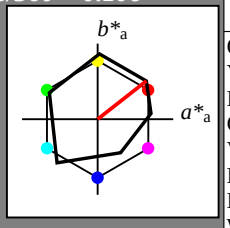
**Input: Colorimetric Offset Reflective System ORS18**
**for hue *h** = *lab*h* = 38/360 = 0.106**
***lab*tch* and *lab*nch***

**A: hue O**
**LCH*Ma: 48 82 38**
**olv*Ma: 1.0 0.0 0.0**

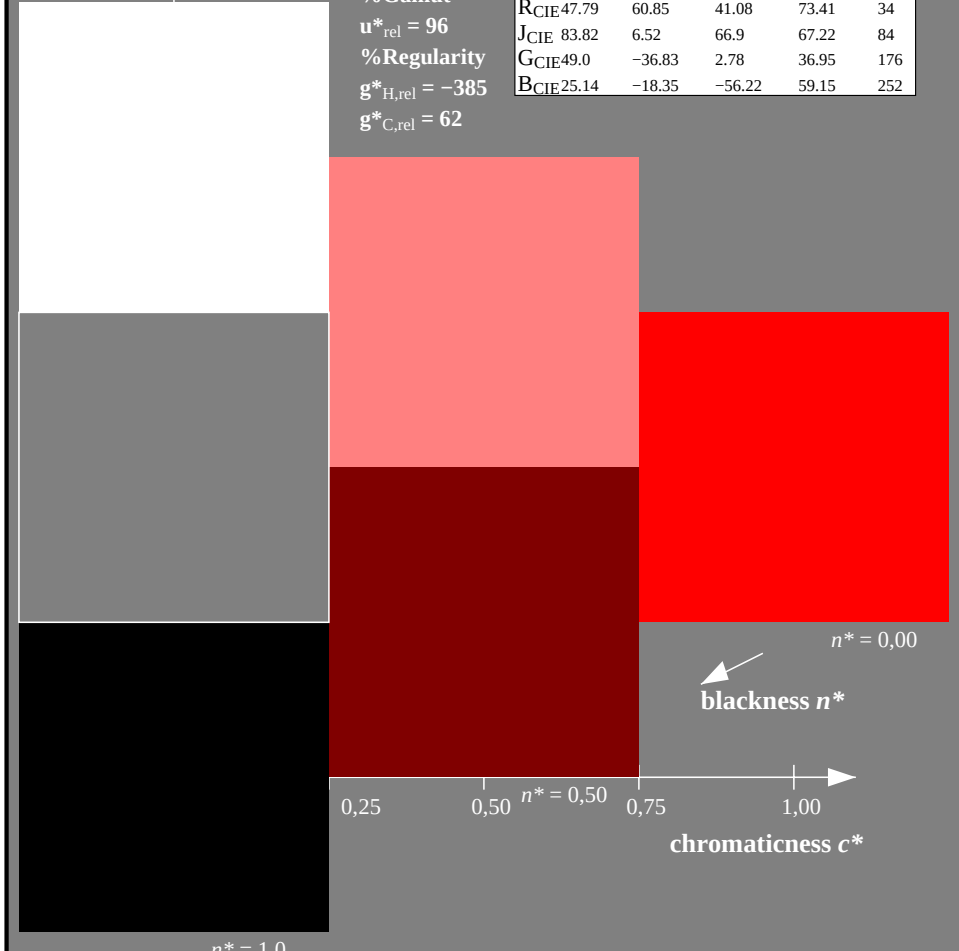
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 96**
**%Regularity**
**$g^*_{H,rel}$ = −385**
**$g^*_{C,rel}$ = 62**

**ORS18; adapted (a) CIELAB data**

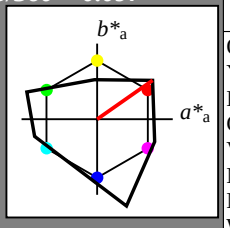
| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 64.42 | 50.58 | 81.9 | 38 |
| $Y_{Ma}$ | 92.62 | 2.41 | 86.36 | 86.39 | 88 |
| $L_{Ma}$ | 50.9 | −63.82 | 35.02 | 72.81 | 151 |
| $C_{Ma}$ | 51.25 | −53.68 | −57.69 | 78.82 | 227 |
| $V_{Ma}$ | 25.72 | 30.34 | −44.37 | 53.76 | 304 |
| $M_{Ma}$ | 56.25 | 70.59 | 7.57 | 70.99 | 6 |
| $N_{Ma}$ | 18.11 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.6 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 60.85 | 41.08 | 73.41 | 34 |
| $J_{CIE}$ | 83.82 | 6.52 | 66.9 | 67.22 | 84 |
| $G_{CIE}$ | 49.0 | −36.83 | 2.78 | 36.95 | 176 |
| $B_{CIE}$ | 25.14 | −18.35 | −56.22 | 59.15 | 252 |




**Output: Colorimetric Television Luminous System TLS00**
**for hue *h** = *lab*h* = 35/360 = 0.097**
***lab*tch* and *lab*nch***

**A: hue O**
**LCH*Ma: 66 90 35**
**olv*Ma: 1.0 0.0 0.0**

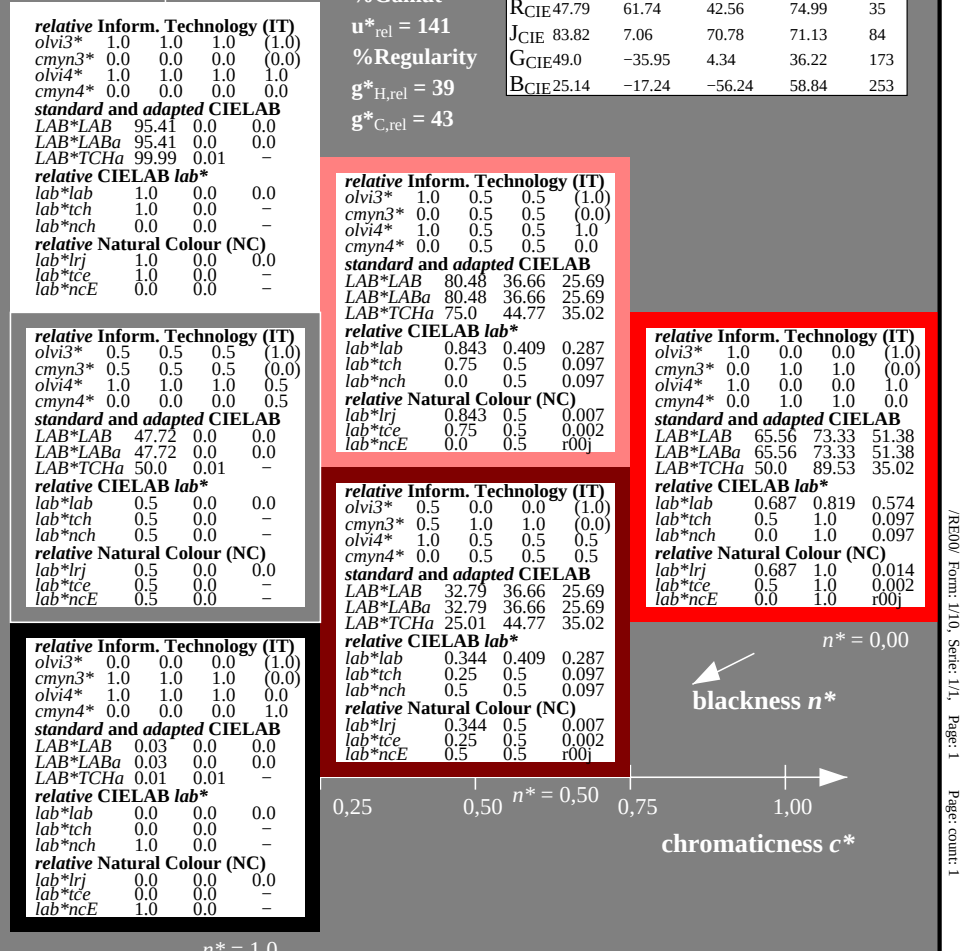
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 141**
**%Regularity**
**$g^*_{H,rel}$ = 39**
**$g^*_{C,rel}$ = 43**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 65.56 | 73.34 | 51.39 | 89.55 | 35 |
| $Y_{Ma}$ | 94.78 | −3.49 | 52.24 | 52.36 | 94 |
| $L_{Ma}$ | 77.48 | −92.97 | 36.0 | 99.71 | 159 |
| $C_{Ma}$ | 78.36 | −82.69 | −22.74 | 85.77 | 195 |
| $V_{Ma}$ | 12.55 | 38.81 | −114.81 | 121.2 | 289 |
| $M_{Ma}$ | 66.71 | 76.08 | −29.8 | 81.71 | 339 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 61.74 | 42.56 | 74.99 | 35 |
| $J_{CIE}$ | 83.82 | 7.06 | 70.78 | 71.13 | 84 |
| $G_{CIE}$ | 49.0 | −35.95 | 4.34 | 36.22 | 173 |
| $B_{CIE}$ | 25.14 | −17.24 | −56.24 | 58.84 | 253 |




***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* | 47.72 | 0.0 | 0.0 |
| *LAB*LABa* | 47.72 | 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* | 0.03 | 0.0 | 0.0 |
| *LAB*LABa* | 0.03 | 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* | 80.48 | 36.66 | 25.69 |
| *LAB*LABa* | 80.48 | 36.66 | 25.69 |
| *LAB*TCHa* | 75.0 | 44.77 | 35.02 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.843 | 0.409 | 0.287 |
| *lab*tch* | 0.75 | 0.5 | 0.097 |
| *lab*nch* | 0.0 | 0.5 | 0.097 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.843 | 0.5 | 0.007 |
| *lab*tce* | 0.75 | 0.5 | 0.002 |
| *lab*ncE* | 0.0 | 0.5 | r00j |

***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* | 32.79 | 36.66 | 25.69 |
| *LAB*LABa* | 32.79 | 36.66 | 25.69 |
| *LAB*TCHa* | 25.01 | 44.77 | 35.02 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.344 | 0.409 | 0.287 |
| *lab*tch* | 0.25 | 0.5 | 0.097 |
| *lab*nch* | 0.5 | 0.5 | 0.097 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.344 | 0.5 | 0.007 |
| *lab*tce* | 0.25 | 0.5 | 0.002 |
| *lab*ncE* | 0.5 | 0.5 | r00j |

***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* | 65.56 | 73.33 | 51.38 |
| *LAB*LABa* | 65.56 | 73.33 | 51.38 |
| *LAB*TCHa* | 50.0 | 89.53 | 35.02 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.687 | 0.819 | 0.574 |
| *lab*tch* | 0.5 | 1.0 | 0.097 |
| *lab*nch* | 0.0 | 1.0 | 0.097 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.687 | 1.0 | 0.014 |
| *lab*tce* | 0.5 | 1.0 | 0.002 |
| *lab*ncE* | 0.0 | 1.0 | r00j |

RE000−7, 3 step scales for constant CIELAB hue 38/360 = 0.106 (left)
3 step scales for constant CIELAB hue 35/360 = 0.097 (right)

BAM-test chart RE00; Colorimetric systems ORS18 & ORS18
A: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/RE00/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

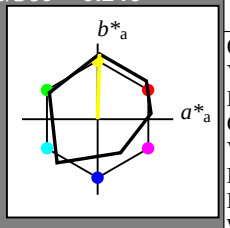
BAM registration: 20060101-RE00/10S/S00E00SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/RE00/ Form: 1/10, Serie: 1/1, Page: 1 Page: count: 1

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = lab*h = 88/360 = 0.246**
***lab*tch* and *lab*nch***

**A: hue Y**
**LCH*Ma: 93 86 88**
**olv*Ma: 1.0 1.0 0.0**

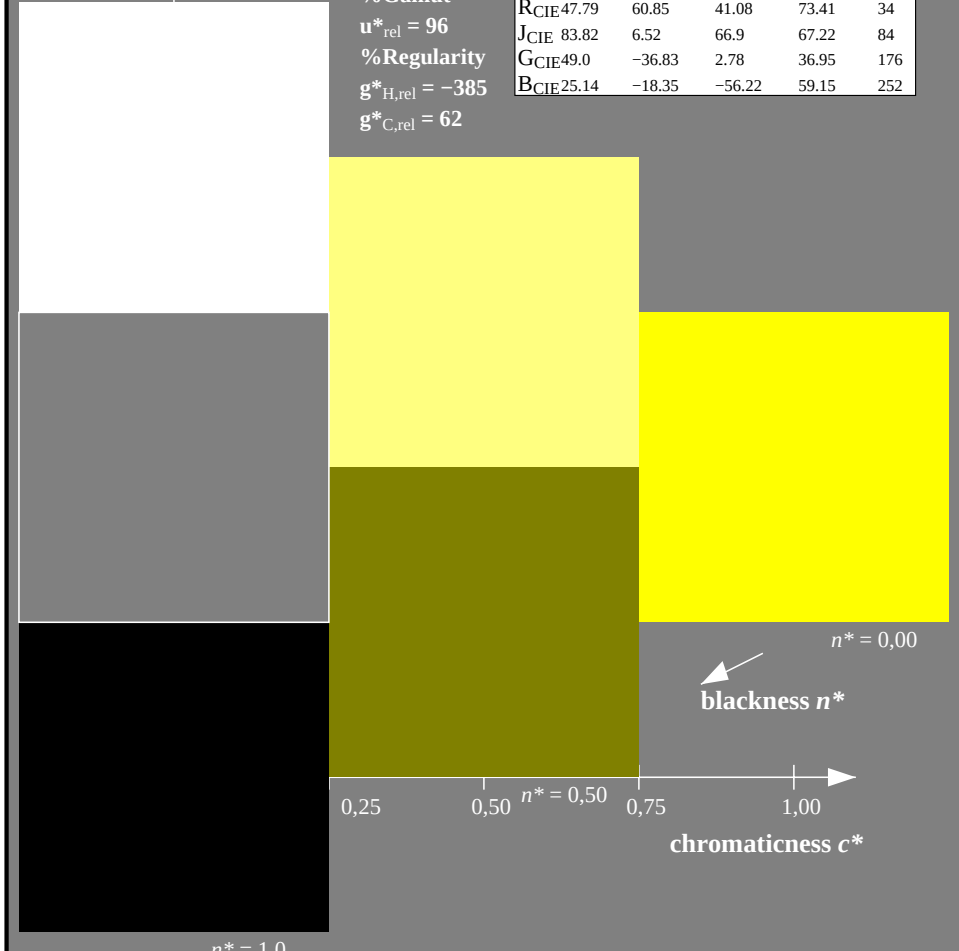
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 96**
**%Regularity**
**$g^*_{H,rel}$ = −385**
**$g^*_{C,rel}$ = 62**

**ORS18; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 64.42 | 50.58 | 81.9 | 38 |
| $Y_{Ma}$ | 92.62 | 2.41 | 86.36 | 86.39 | 88 |
| $L_{Ma}$ | 50.9 | −63.82 | 35.02 | 72.81 | 151 |
| $C_{Ma}$ | 51.25 | −53.68 | −57.69 | 78.82 | 227 |
| $V_{Ma}$ | 25.72 | 30.34 | −44.37 | 53.76 | 304 |
| $M_{Ma}$ | 56.25 | 70.59 | 7.57 | 70.99 | 6 |
| $N_{Ma}$ | 18.11 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.6 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 60.85 | 41.08 | 73.41 | 34 |
| $J_{CIE}$ | 83.82 | 6.52 | 66.9 | 67.22 | 84 |
| $G_{CIE}$ | 49.0 | −36.83 | 2.78 | 36.95 | 176 |
| $B_{CIE}$ | 25.14 | −18.35 | −56.22 | 59.15 | 252 |




**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 47.72 0.0 0.0
LAB*LABa 47.72 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 –

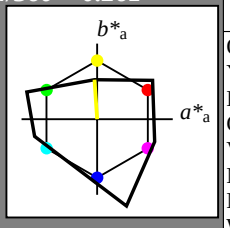
**relative Inform. Technology (IT)**
olvi3* 0.0 0.0 0.0 (1.0)
cmyn3* 1.0 1.0 1.0 (0.0)
olvi4* 1.0 1.0 1.0 0.0
cmyn4* 0.0 0.0 0.0 1.0
**standard and adapted CIELAB**
LAB*LAB 0.03 0.0 0.0
LAB*LABa 0.03 0.0 0.0
LAB*TCHa 0.01 0.01 –
**relative CIELAB lab***
lab*lab 0.0 0.0 0.0
lab*tch 0.0 0.0 –
lab*nch 1.0 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 –

## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = lab*h = 94/360 = 0.261**
***lab*tch* and *lab*nch***

**A: hue Y**
**LCH*Ma: 95 52 94**
**olv*Ma: 1.0 1.0 0.0**

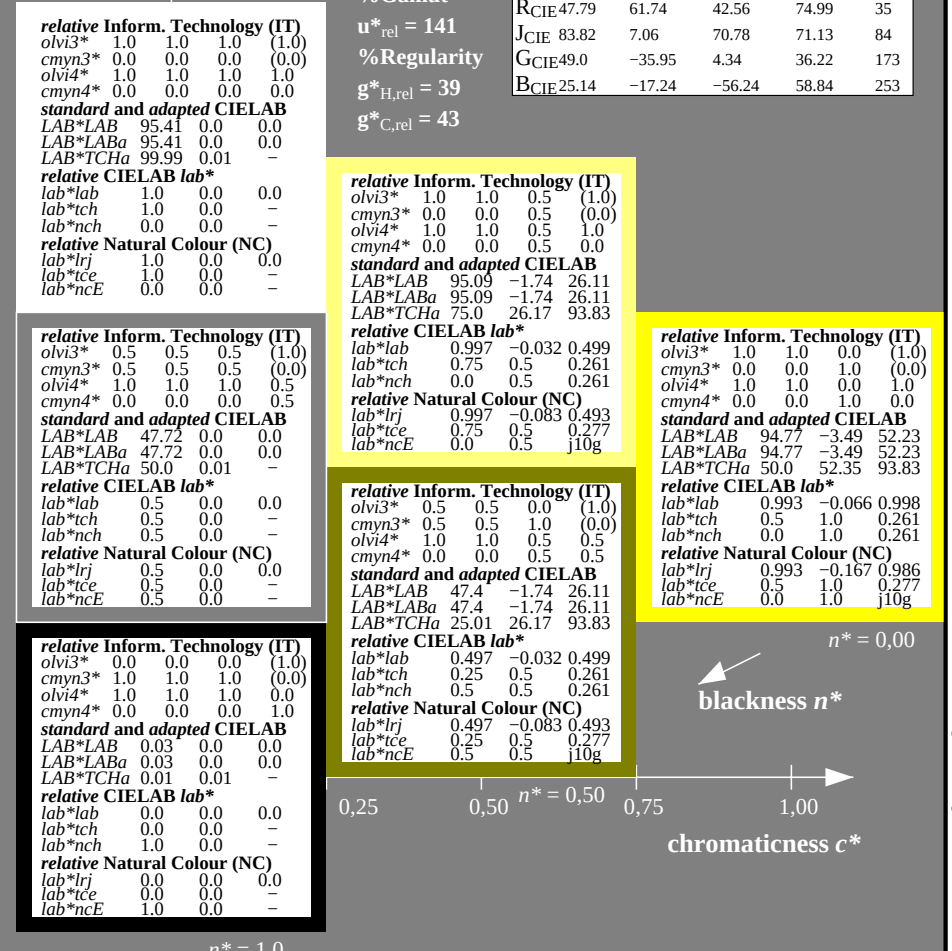
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 141**
**%Regularity**
**$g^*_{H,rel}$ = 39**
**$g^*_{C,rel}$ = 43**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 65.56 | 73.34 | 51.39 | 89.55 | 35 |
| $Y_{Ma}$ | 94.78 | −3.49 | 52.24 | 52.36 | 94 |
| $L_{Ma}$ | 77.48 | −92.97 | 36.0 | 99.71 | 159 |
| $C_{Ma}$ | 78.36 | −82.69 | −22.74 | 85.77 | 195 |
| $V_{Ma}$ | 12.55 | 38.81 | −114.81 | 121.2 | 289 |
| $M_{Ma}$ | 66.71 | 76.08 | −29.8 | 81.71 | 339 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 61.74 | 42.56 | 74.99 | 35 |
| $J_{CIE}$ | 83.82 | 7.06 | 70.78 | 71.13 | 84 |
| $G_{CIE}$ | 49.0 | −35.95 | 4.34 | 36.22 | 173 |
| $B_{CIE}$ | 25.14 | −17.24 | −56.24 | 58.84 | 253 |




**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 95.09 −1.74 26.11
LAB*LABa 95.09 −1.74 26.11
LAB*TCHa 75.0 26.17 93.83
**relative CIELAB lab***
lab*lab 0.997 −0.032 0.499
lab*tch 0.75 0.5 0.261
lab*nch 0.0 0.5 0.261
**relative Natural Colour (NC)**
lab*lrj 0.997 −0.083 0.493
lab*tce 0.75 0.5 0.277
lab*ncE 0.0 0.5 j10g

**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 47.4 −1.74 26.11
LAB*LABa 47.4 −1.74 26.11
LAB*TCHa 25.01 26.17 93.83
**relative CIELAB lab***
lab*lab 0.497 −0.032 0.499
lab*tch 0.25 0.5 0.261
lab*nch 0.5 0.5 0.261
**relative Natural Colour (NC)**
lab*lrj 0.497 −0.083 0.493
lab*tce 0.25 0.5 0.277
lab*ncE 0.5 0.5 j10g

**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 94.77 −3.49 52.23
LAB*LABa 94.77 −3.49 52.23
LAB*TCHa 50.0 52.35 93.83
**relative CIELAB lab***
lab*lab 0.993 −0.066 0.998
lab*tch 0.5 1.0 0.261
lab*nch 0.0 1.0 0.261
**relative Natural Colour (NC)**
lab*lrj 0.993 −0.167 0.986
lab*tce 0.5 1.0 0.277
lab*ncE 0.0 1.0 j10g

RE000−7, 3 step scales for constant CIELAB hue 88/360 = 0.246 (left)
3 step scales for constant CIELAB hue 94/360 = 0.261 (right)

BAM-test chart RE00; Colorimetric systems ORS18 & ORS18
A: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/RE00/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

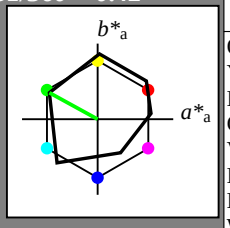
BAM registration: 20060101-RE00/10S/S00E01SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/RE00/ Form: 2/10, Serie: 1/1, Page: 2 Page: count: 2

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = lab*h = 151/360 = 0.42**
***lab*tch* and *lab*nch***

**A: hue L**
**LCH*Ma: 51 73 151**
**olv*Ma: 0.0 1.0 0.0**

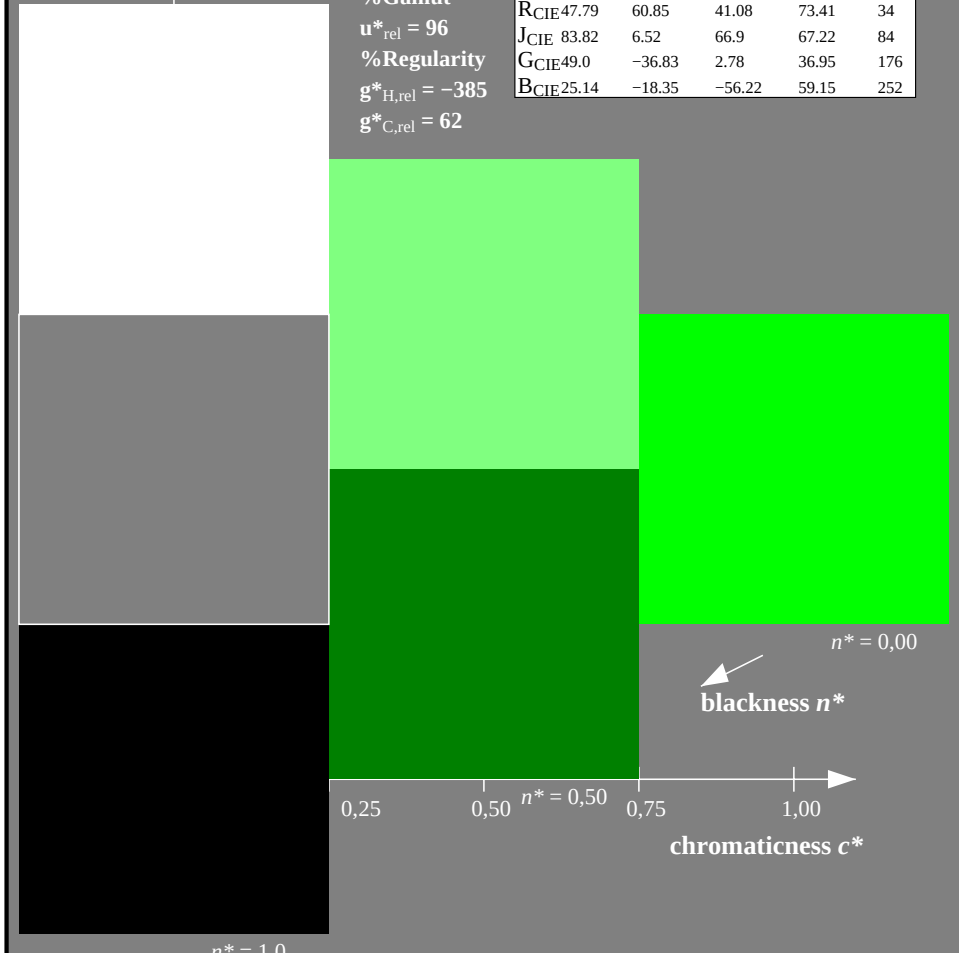
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 96**
**%Regularity**
**$g^*_{H,rel}$ = −385**
**$g^*_{C,rel}$ = 62**

**ORS18; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 64.42 | 50.58 | 81.9 | 38 |
| $Y_{Ma}$ | 92.62 | 2.41 | 86.36 | 86.39 | 88 |
| $L_{Ma}$ | 50.9 | −63.82 | 35.02 | 72.81 | 151 |
| $C_{Ma}$ | 51.25 | −53.68 | −57.69 | 78.82 | 227 |
| $V_{Ma}$ | 25.72 | 30.34 | −44.37 | 53.76 | 304 |
| $M_{Ma}$ | 56.25 | 70.59 | 7.57 | 70.99 | 6 |
| $N_{Ma}$ | 18.11 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.6 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 60.85 | 41.08 | 73.41 | 34 |
| $J_{CIE}$ | 83.82 | 6.52 | 66.9 | 67.22 | 84 |
| $G_{CIE}$ | 49.0 | −36.83 | 2.78 | 36.95 | 176 |
| $B_{CIE}$ | 25.14 | −18.35 | −56.22 | 59.15 | 252 |

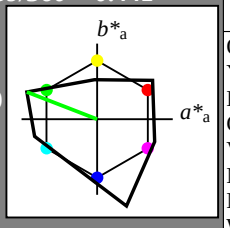



## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = lab*h = 159/360 = 0.441**
***lab*tch* and *lab*nch***

**A: hue L**
**LCH*Ma: 77 100 159**
**olv*Ma: 0.0 1.0 0.0**

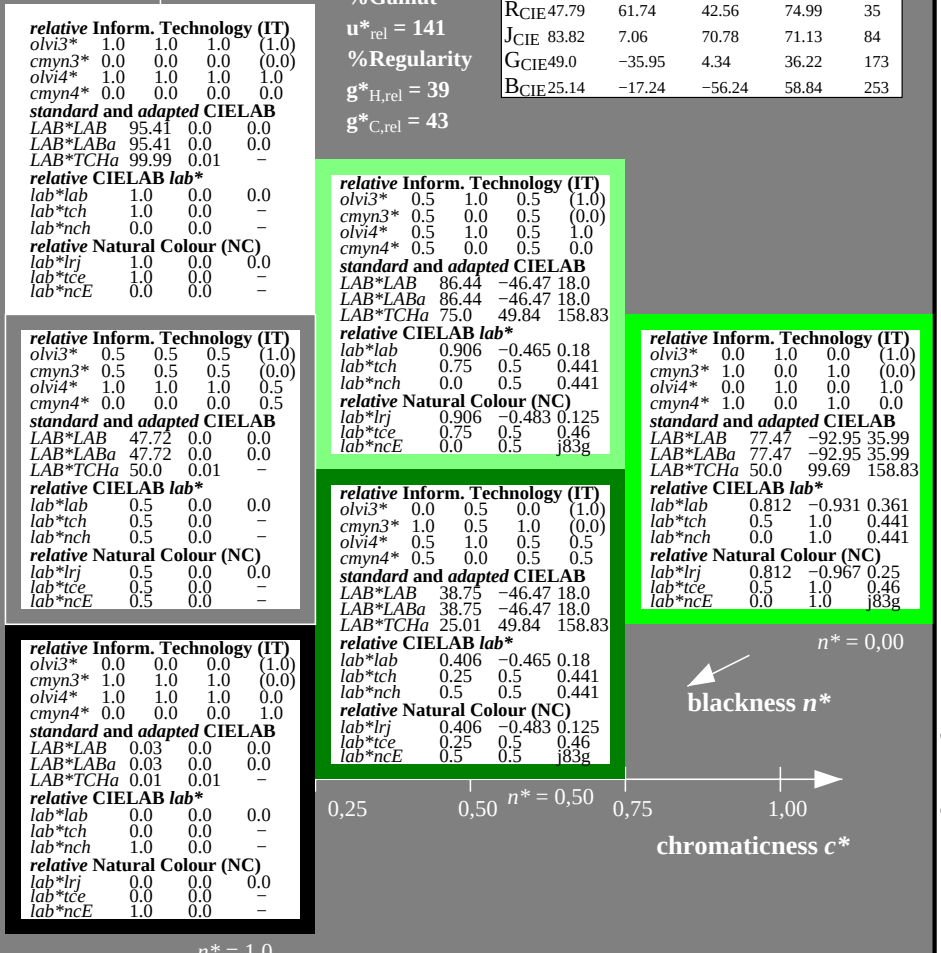
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 141**
**%Regularity**
**$g^*_{H,rel}$ = 39**
**$g^*_{C,rel}$ = 43**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 65.56 | 73.34 | 51.39 | 89.55 | 35 |
| $Y_{Ma}$ | 94.78 | −3.49 | 52.24 | 52.36 | 94 |
| $L_{Ma}$ | 77.48 | −92.97 | 36.0 | 99.71 | 159 |
| $C_{Ma}$ | 78.36 | −82.69 | −22.74 | 85.77 | 195 |
| $V_{Ma}$ | 12.55 | 38.81 | −114.81 | 121.2 | 289 |
| $M_{Ma}$ | 66.71 | 76.08 | −29.8 | 81.71 | 339 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 61.74 | 42.56 | 74.99 | 35 |
| $J_{CIE}$ | 83.82 | 7.06 | 70.78 | 71.13 | 84 |
| $G_{CIE}$ | 49.0 | −35.95 | 4.34 | 36.22 | 173 |
| $B_{CIE}$ | 25.14 | −17.24 | −56.24 | 58.84 | 253 |




***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* | 47.72 | 0.0 | 0.0 | |
| *LAB*LABa* | 47.72 | 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* | 0.03 | 0.0 | 0.0 | |
| *LAB*LABa* | 0.03 | 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 | 0.5 | (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* | 86.44 | −46.47 | 18.0 | |
| *LAB*LABa* | 86.44 | −46.47 | 18.0 | |
| *LAB*TCHa* | 75.0 | 49.84 | 158.83 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.906 | −0.465 | 0.18 | |
| *lab*tch* | 0.75 | 0.5 | 0.441 | |
| *lab*nch* | 0.0 | 0.5 | 0.441 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.906 | −0.483 | 0.125 | |
| *lab*tce* | 0.75 | 0.5 | 0.46 | |
| *lab*ncE* | 0.0 | 0.5 | j83g | |

***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* | 38.75 | −46.47 | 18.0 | |
| *LAB*LABa* | 38.75 | −46.47 | 18.0 | |
| *LAB*TCHa* | 25.01 | 49.84 | 158.83 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.406 | −0.465 | 0.18 | |
| *lab*tch* | 0.25 | 0.5 | 0.441 | |
| *lab*nch* | 0.5 | 0.5 | 0.441 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.406 | −0.483 | 0.125 | |
| *lab*tce* | 0.25 | 0.5 | 0.46 | |
| *lab*ncE* | 0.5 | 0.5 | j83g | |

***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* | 77.47 | −92.95 | 35.99 | |
| *LAB*LABa* | 77.47 | −92.95 | 35.99 | |
| *LAB*TCHa* | 50.0 | 99.69 | 158.83 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.812 | −0.931 | 0.361 | |
| *lab*tch* | 0.5 | 1.0 | 0.441 | |
| *lab*nch* | 0.0 | 1.0 | 0.441 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.812 | −0.967 | 0.25 | |
| *lab*tce* | 0.5 | 1.0 | 0.46 | |
| *lab*ncE* | 0.0 | 1.0 | j83g | |

RE000−7, 3 step scales for constant CIELAB hue 151/360 = 0.42 (left)

3 step scales for constant CIELAB hue 159/360 = 0.441 (right)

BAM-test chart RE00; Colorimetric systems ORS18 & ORS18
A: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/RE00/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

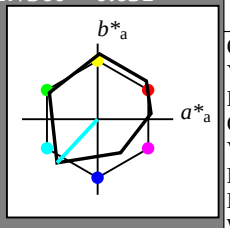
BAM registration: 20060101-RE00/10S/S00E02SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

/RE00/ Form: 3/10, Serie: 1/1, Page: 3 Page: count: 3

**Input: Colorimetric Offset Reflective System ORS18**
**for hue *h** = lab*h = 227/360 = 0.631**
***lab*tch* and *lab*nch***

**A: hue C**
**LCH*Ma: 51 79 227**
**olv*Ma: 0.0 1.0 1.0**

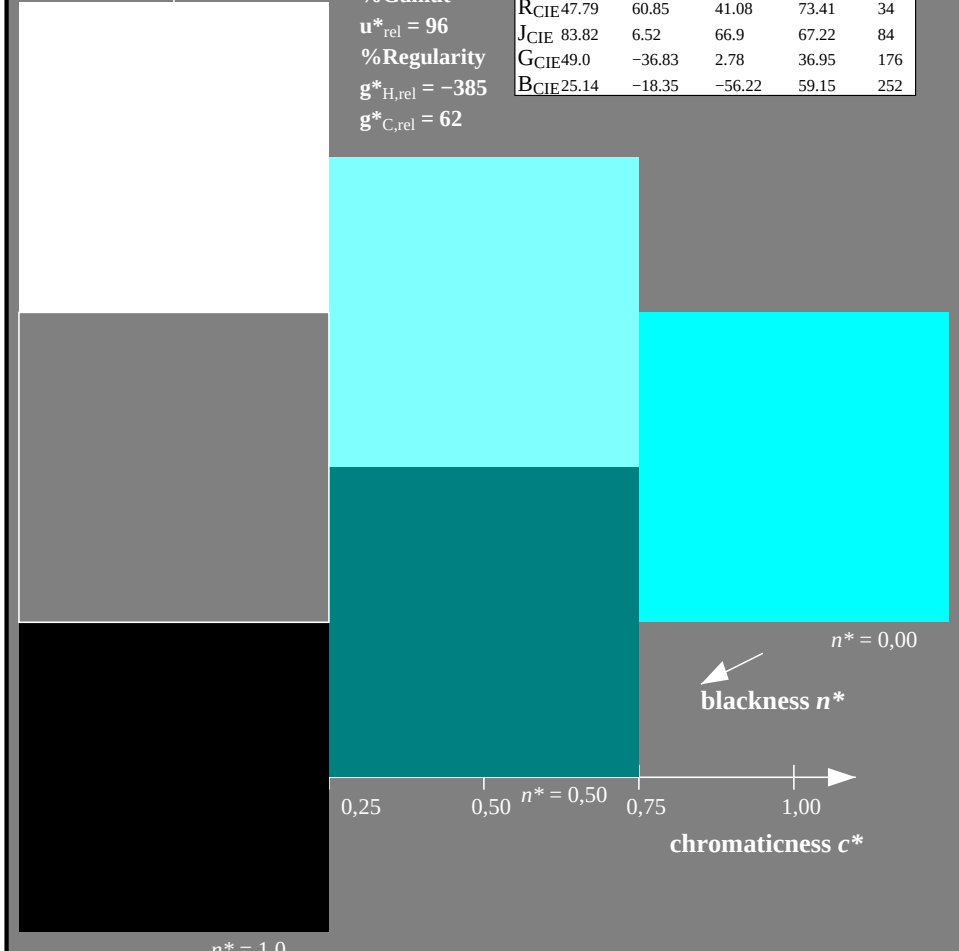
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 96**
**%Regularity**
**$g^*_{H,rel}$ = −385**
**$g^*_{C,rel}$ = 62**

**ORS18; adapted (a) CIELAB data**

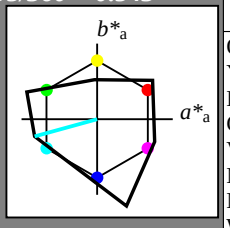
| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 64.42 | 50.58 | 81.9 | 38 |
| $Y_{Ma}$ | 92.62 | 2.41 | 86.36 | 86.39 | 88 |
| $L_{Ma}$ | 50.9 | −63.82 | 35.02 | 72.81 | 151 |
| $C_{Ma}$ | 51.25 | −53.68 | −57.69 | 78.82 | 227 |
| $V_{Ma}$ | 25.72 | 30.34 | −44.37 | 53.76 | 304 |
| $M_{Ma}$ | 56.25 | 70.59 | 7.57 | 70.99 | 6 |
| $N_{Ma}$ | 18.11 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.6 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 60.85 | 41.08 | 73.41 | 34 |
| $J_{CIE}$ | 83.82 | 6.52 | 66.9 | 67.22 | 84 |
| $G_{CIE}$ | 49.0 | −36.83 | 2.78 | 36.95 | 176 |
| $B_{CIE}$ | 25.14 | −18.35 | −56.22 | 59.15 | 252 |




**Output: Colorimetric Television Luminous System TLS00**
**for hue *h** = lab*h = 195/360 = 0.543**
***lab*tch* and *lab*nch***

**A: hue C**
**LCH*Ma: 78 86 195**
**olv*Ma: 0.0 1.0 1.0**

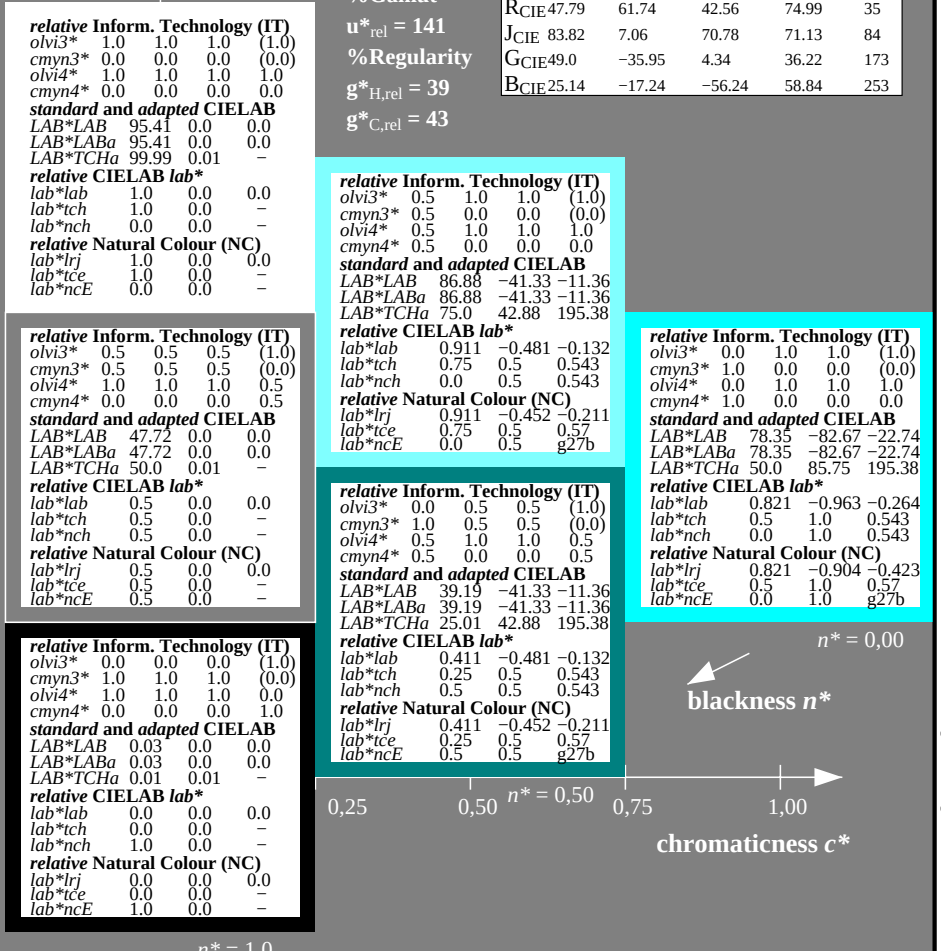
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 141**
**%Regularity**
**$g^*_{H,rel}$ = 39**
**$g^*_{C,rel}$ = 43**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 65.56 | 73.34 | 51.39 | 89.55 | 35 |
| $Y_{Ma}$ | 94.78 | −3.49 | 52.24 | 52.36 | 94 |
| $L_{Ma}$ | 77.48 | −92.97 | 36.0 | 99.71 | 159 |
| $C_{Ma}$ | 78.36 | −82.69 | −22.74 | 85.77 | 195 |
| $V_{Ma}$ | 12.55 | 38.81 | −114.81 | 121.2 | 289 |
| $M_{Ma}$ | 66.71 | 76.08 | −29.8 | 81.71 | 339 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 61.74 | 42.56 | 74.99 | 35 |
| $J_{CIE}$ | 83.82 | 7.06 | 70.78 | 71.13 | 84 |
| $G_{CIE}$ | 49.0 | −35.95 | 4.34 | 36.22 | 173 |
| $B_{CIE}$ | 25.14 | −17.24 | −56.24 | 58.84 | 253 |




***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* | 47.72 | 0.0 | 0.0 | |
| *LAB*LABa* | 47.72 | 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* | 0.03 | 0.0 | 0.0 | |
| *LAB*LABa* | 0.03 | 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 | 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* | 86.88 | −41.33 | −11.36 | |
| *LAB*LABa* | 86.88 | −41.33 | −11.36 | |
| *LAB*TCHa* | 75.0 | 42.88 | 195.38 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.911 | −0.481 | −0.132 | |
| *lab*tch* | 0.75 | 0.5 | 0.543 | |
| *lab*nch* | 0.0 | 0.5 | 0.543 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.911 | −0.452 | −0.211 | |
| *lab*tce* | 0.75 | 0.5 | 0.57 | |
| *lab*ncE* | 0.0 | 0.5 | g27b | |

***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* | 39.19 | −41.33 | −11.36 | |
| *LAB*LABa* | 39.19 | −41.33 | −11.36 | |
| *LAB*TCHa* | 25.01 | 42.88 | 195.38 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.411 | −0.481 | −0.132 | |
| *lab*tch* | 0.25 | 0.5 | 0.543 | |
| *lab*nch* | 0.5 | 0.5 | 0.543 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.411 | −0.452 | −0.211 | |
| *lab*tce* | 0.25 | 0.5 | 0.57 | |
| *lab*ncE* | 0.5 | 0.5 | g27b | |

***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* | 78.35 | −82.67 | −22.74 | |
| *LAB*LABa* | 78.35 | −82.67 | −22.74 | |
| *LAB*TCHa* | 50.0 | 85.75 | 195.38 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.821 | −0.963 | −0.264 | |
| *lab*tch* | 0.5 | 1.0 | 0.543 | |
| *lab*nch* | 0.0 | 1.0 | 0.543 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.821 | −0.904 | −0.423 | |
| *lab*tce* | 0.5 | 1.0 | 0.57 | |
| *lab*ncE* | 0.0 | 1.0 | g27b | |

RE000−7, 3 step scales for constant CIELAB hue 227/360 = 0.631 (left)

3 step scales for constant CIELAB hue 195/360 = 0.543 (right)

BAM-test chart RE00; Colorimetric systems ORS18 & ORS18
A: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/RE00/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

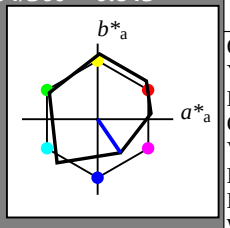
BAM registration: 20060101-RE00/10S/S00E03SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

/RE00/ Form: 4/10, Serie: 1/1, Page: 4 Page: count: 4

**Input: Colorimetric Offset Reflective System ORS18**
**for hue *h** = *lab*h* = 304/360 = 0.845**
***lab*tch* and *lab*nch***

**A: hue V**
**LCH*Ma: 26 54 304**
**olv*Ma: 0.0 0.0 1.0**

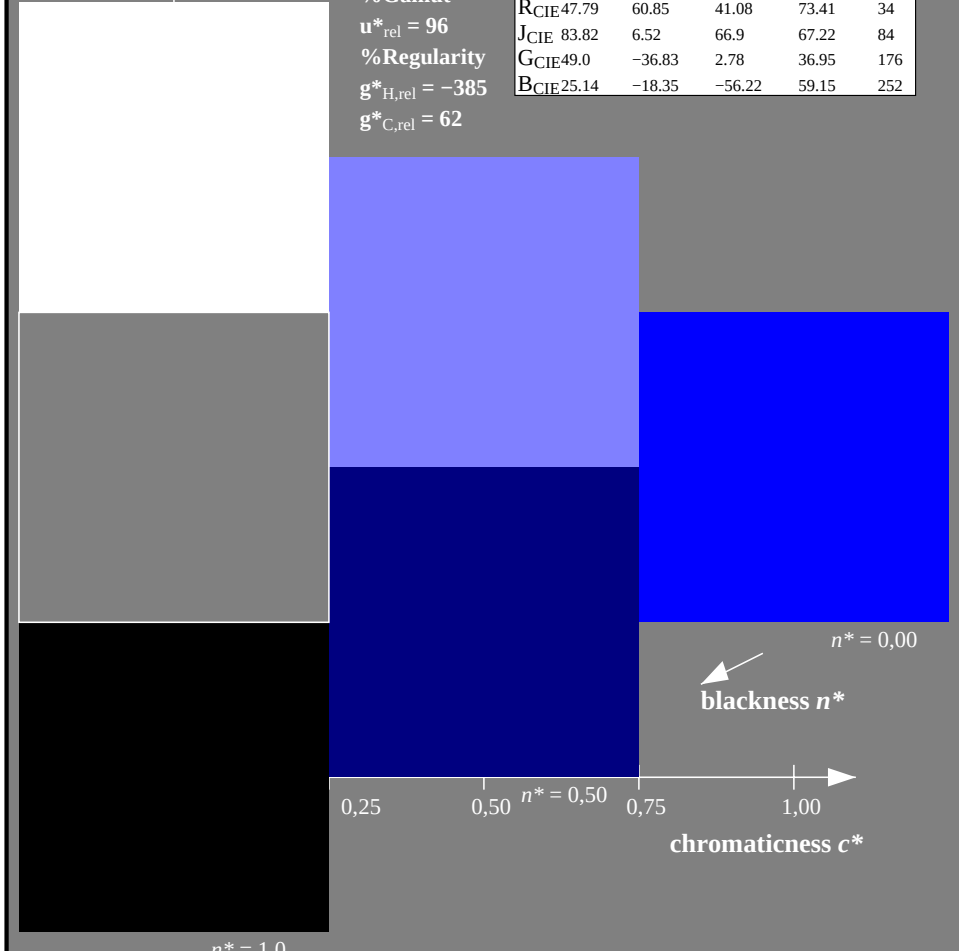
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 96**
**%Regularity**
**$g^*_{H,rel}$ = −385**
**$g^*_{C,rel}$ = 62**

**ORS18; adapted (a) CIELAB data**

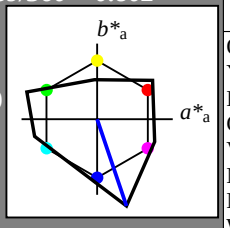
| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 64.42 | 50.58 | 81.9 | 38 |
| $Y_{Ma}$ | 92.62 | 2.41 | 86.36 | 86.39 | 88 |
| $L_{Ma}$ | 50.9 | −63.82 | 35.02 | 72.81 | 151 |
| $C_{Ma}$ | 51.25 | −53.68 | −57.69 | 78.82 | 227 |
| $V_{Ma}$ | 25.72 | 30.34 | −44.37 | 53.76 | 304 |
| $M_{Ma}$ | 56.25 | 70.59 | 7.57 | 70.99 | 6 |
| $N_{Ma}$ | 18.11 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.6 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 60.85 | 41.08 | 73.41 | 34 |
| $J_{CIE}$ | 83.82 | 6.52 | 66.9 | 67.22 | 84 |
| $G_{CIE}$ | 49.0 | −36.83 | 2.78 | 36.95 | 176 |
| $B_{CIE}$ | 25.14 | −18.35 | −56.22 | 59.15 | 252 |




**Output: Colorimetric Television Luminous System TLS00**
**for hue *h** = *lab*h* = 289/360 = 0.802**
***lab*tch* and *lab*nch***

**A: hue V**
**LCH*Ma: 13 121 289**
**olv*Ma: 0.0 0.0 1.0**

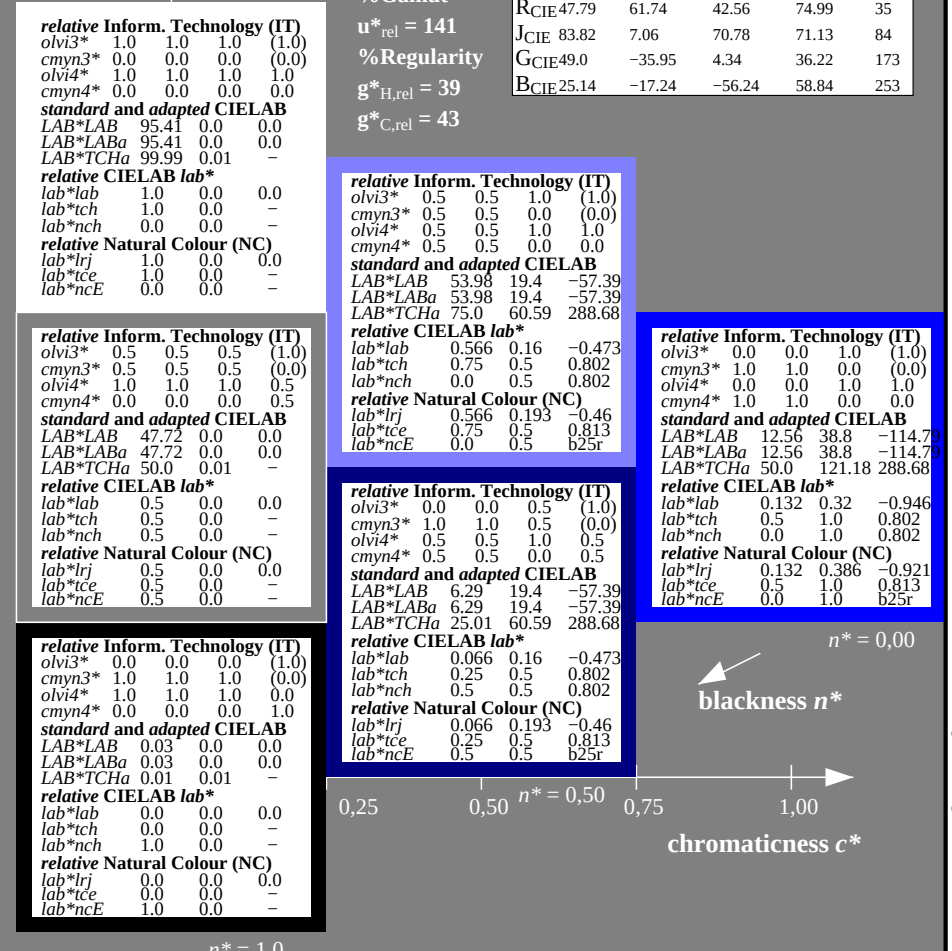
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 141**
**%Regularity**
**$g^*_{H,rel}$ = 39**
**$g^*_{C,rel}$ = 43**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 65.56 | 73.34 | 51.39 | 89.55 | 35 |
| $Y_{Ma}$ | 94.78 | −3.49 | 52.24 | 52.36 | 94 |
| $L_{Ma}$ | 77.48 | −92.97 | 36.0 | 99.71 | 159 |
| $C_{Ma}$ | 78.36 | −82.69 | −22.74 | 85.77 | 195 |
| $V_{Ma}$ | 12.55 | 38.81 | −114.81 | 121.2 | 289 |
| $M_{Ma}$ | 66.71 | 76.08 | −29.8 | 81.71 | 339 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 61.74 | 42.56 | 74.99 | 35 |
| $J_{CIE}$ | 83.82 | 7.06 | 70.78 | 71.13 | 84 |
| $G_{CIE}$ | 49.0 | −35.95 | 4.34 | 36.22 | 173 |
| $B_{CIE}$ | 25.14 | −17.24 | −56.24 | 58.84 | 253 |




***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* | 47.72 | 0.0 | 0.0 | |
| *LAB*LABa* | 47.72 | 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* | 0.03 | 0.0 | 0.0 | |
| *LAB*LABa* | 0.03 | 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* | 53.98 | 19.4 | −57.39 | |
| *LAB*LABa* | 53.98 | 19.4 | −57.39 | |
| *LAB*TCHa* | 75.0 | 60.59 | 288.68 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.566 | 0.16 | −0.473 | |
| *lab*tch* | 0.75 | 0.5 | 0.802 | |
| *lab*nch* | 0.0 | 0.5 | 0.802 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.566 | 0.193 | −0.46 | |
| *lab*tce* | 0.75 | 0.5 | 0.813 | |
| *lab*ncE* | 0.0 | 0.5 | b25r | |

***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* | 6.29 | 19.4 | −57.39 | |
| *LAB*LABa* | 6.29 | 19.4 | −57.39 | |
| *LAB*TCHa* | 25.01 | 60.59 | 288.68 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.066 | 0.16 | −0.473 | |
| *lab*tch* | 0.25 | 0.5 | 0.802 | |
| *lab*nch* | 0.5 | 0.5 | 0.802 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.066 | 0.193 | −0.46 | |
| *lab*tce* | 0.25 | 0.5 | 0.813 | |
| *lab*ncE* | 0.5 | 0.5 | b25r | |

***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* | 12.56 | 38.8 | −114.79 | |
| *LAB*LABa* | 12.56 | 38.8 | −114.79 | |
| *LAB*TCHa* | 50.0 | 121.18 | 288.68 | |
| ***relative* CIELAB *lab*** | | | | |
| *lab*lab* | 0.132 | 0.32 | −0.946 | |
| *lab*tch* | 0.5 | 1.0 | 0.802 | |
| *lab*nch* | 0.0 | 1.0 | 0.802 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.132 | 0.386 | −0.921 | |
| *lab*tce* | 0.5 | 1.0 | 0.813 | |
| *lab*ncE* | 0.0 | 1.0 | b25r | |

RE000−7, 3 step scales for constant CIELAB hue 304/360 = 0.845 (left)

3 step scales for constant CIELAB hue 289/360 = 0.802 (right)

BAM-test chart RE00; Colorimetric systems ORS18 & ORS18
A: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/RE00/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

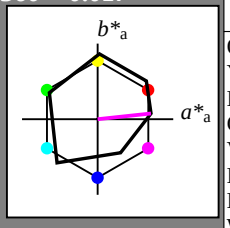
BAM registration: 20060101-RE00/10S/S00E04SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/RE00/ Form: 5/10, Serie: 1/1, Page: 5 Page: count: 5

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = lab*h = 6/360 = 0.017**
***lab*tch* and *lab*nch***

**A: hue M**
**LCH*Ma: 56 71 6**
**olv*Ma: 1.0 0.0 1.0**

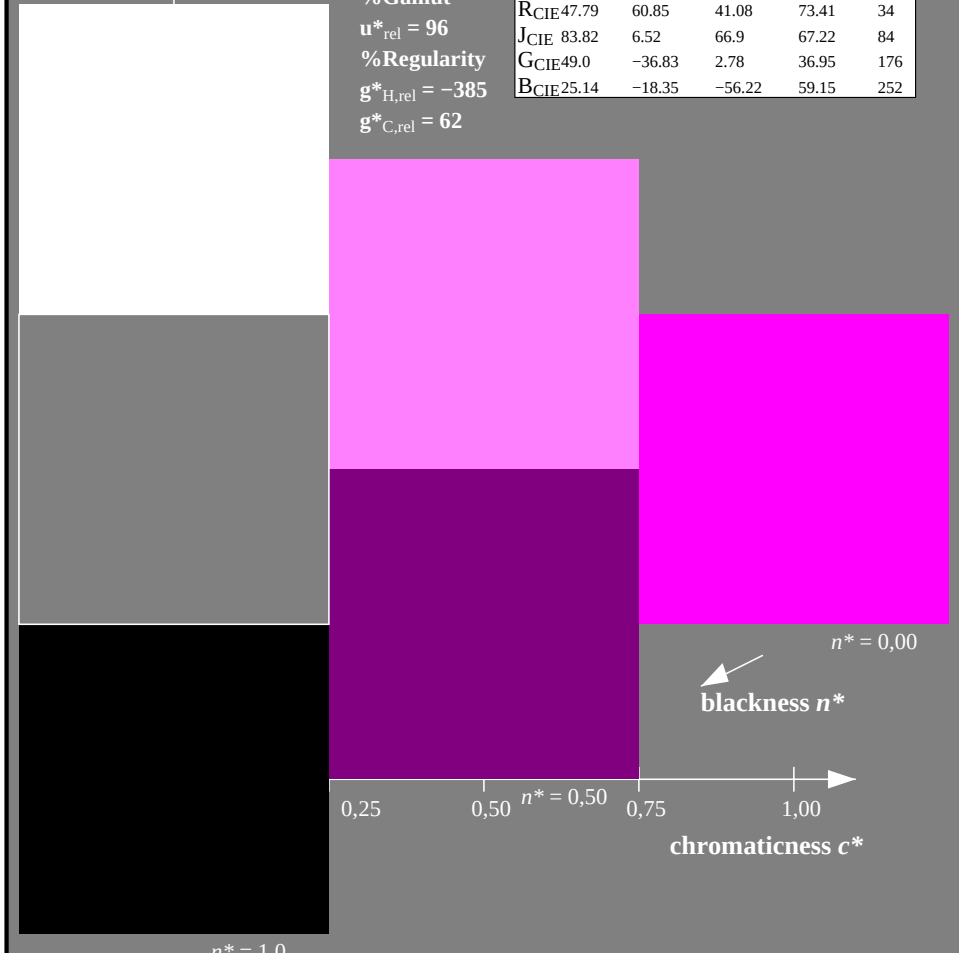
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 96**
**%Regularity**
**$g^*_{H,rel}$ = −385**
**$g^*_{C,rel}$ = 62**

**ORS18; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 64.42 | 50.58 | 81.9 | 38 |
| $Y_{Ma}$ | 92.62 | 2.41 | 86.36 | 86.39 | 88 |
| $L_{Ma}$ | 50.9 | −63.82 | 35.02 | 72.81 | 151 |
| $C_{Ma}$ | 51.25 | −53.68 | −57.69 | 78.82 | 227 |
| $V_{Ma}$ | 25.72 | 30.34 | −44.37 | 53.76 | 304 |
| $M_{Ma}$ | 56.25 | 70.59 | 7.57 | 70.99 | 6 |
| $N_{Ma}$ | 18.11 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.6 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 60.85 | 41.08 | 73.41 | 34 |
| $J_{CIE}$ | 83.82 | 6.52 | 66.9 | 67.22 | 84 |
| $G_{CIE}$ | 49.0 | −36.83 | 2.78 | 36.95 | 176 |
| $B_{CIE}$ | 25.14 | −18.35 | −56.22 | 59.15 | 252 |




**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* | 47.72 | 0.0 | 0.0 |
| *LAB*LABa* | 47.72 | 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* | 0.03 | 0.0 | 0.0 |
| *LAB*LABa* | 0.03 | 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)**

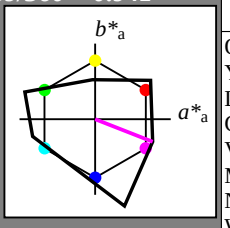
| | | | |
|---|---|---|---|
| *lab*lrj* | 0.0 | 0.0 | 0.0 |
| *lab*tce* | 0.0 | 0.0 | – |
| *lab*ncE* | 1.0 | 0.0 | – |

## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = lab*h = 339/360 = 0.941**
***lab*tch* and *lab*nch***

**A: hue M**
**LCH*Ma: 67 82 339**
**olv*Ma: 1.0 0.0 1.0**

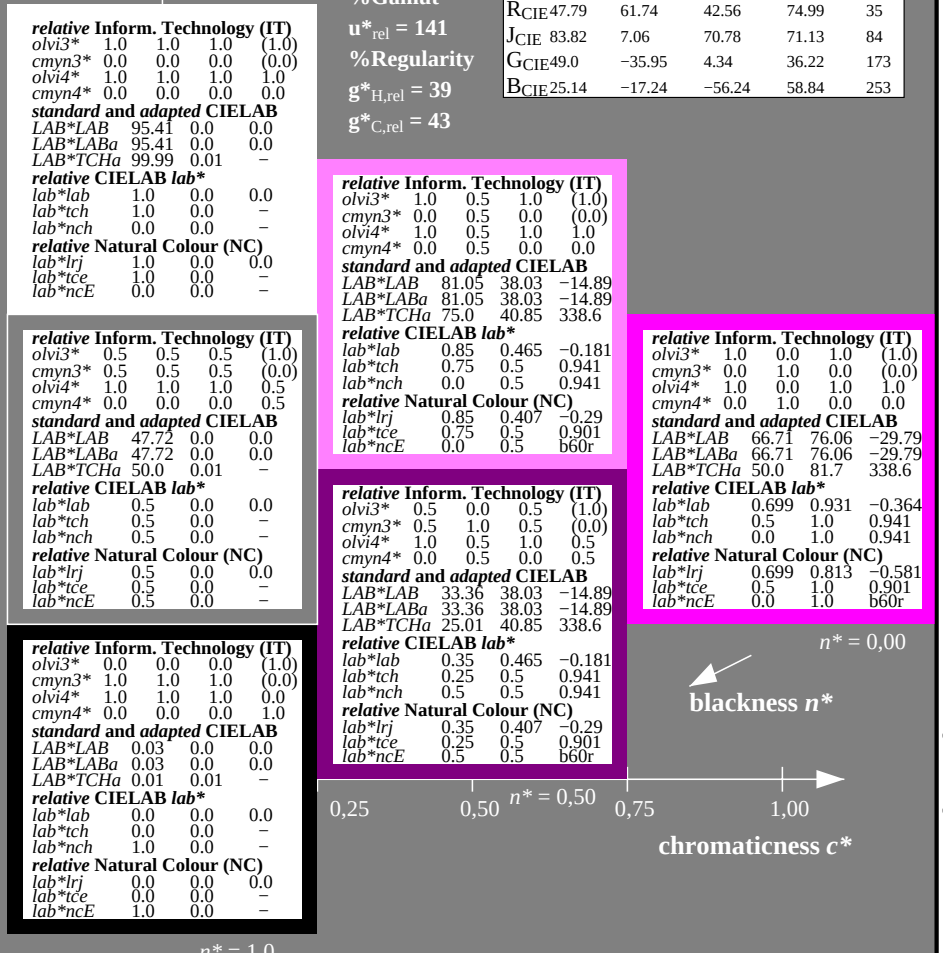
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 141**
**%Regularity**
**$g^*_{H,rel}$ = 39**
**$g^*_{C,rel}$ = 43**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 65.56 | 73.34 | 51.39 | 89.55 | 35 |
| $Y_{Ma}$ | 94.78 | −3.49 | 52.24 | 52.36 | 94 |
| $L_{Ma}$ | 77.48 | −92.97 | 36.0 | 99.71 | 159 |
| $C_{Ma}$ | 78.36 | −82.69 | −22.74 | 85.77 | 195 |
| $V_{Ma}$ | 12.55 | 38.81 | −114.81 | 121.2 | 289 |
| $M_{Ma}$ | 66.71 | 76.08 | −29.8 | 81.71 | 339 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 61.74 | 42.56 | 74.99 | 35 |
| $J_{CIE}$ | 83.82 | 7.06 | 70.78 | 71.13 | 84 |
| $G_{CIE}$ | 49.0 | −35.95 | 4.34 | 36.22 | 173 |
| $B_{CIE}$ | 25.14 | −17.24 | −56.24 | 58.84 | 253 |




**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* | 81.05 | 38.03 | −14.89 |
| *LAB*LABa* | 81.05 | 38.03 | −14.89 |
| *LAB*TCHa* | 75.0 | 40.85 | 338.6 |

**relative CIELAB lab***

| | | | |
|---|---|---|---|
| *lab*lab* | 0.85 | 0.465 | −0.181 |
| *lab*tch* | 0.75 | 0.5 | 0.941 |
| *lab*nch* | 0.0 | 0.5 | 0.941 |

**relative Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.85 | 0.407 | −0.29 |
| *lab*tce* | 0.75 | 0.5 | 0.901 |
| *lab*ncE* | 0.0 | 0.5 | b60r |

**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* | 33.36 | 38.03 | −14.89 |
| *LAB*LABa* | 33.36 | 38.03 | −14.89 |
| *LAB*TCHa* | 25.01 | 40.85 | 338.6 |

**relative CIELAB lab***

| | | | |
|---|---|---|---|
| *lab*lab* | 0.35 | 0.465 | −0.181 |
| *lab*tch* | 0.25 | 0.5 | 0.941 |
| *lab*nch* | 0.5 | 0.5 | 0.941 |

**relative Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.35 | 0.407 | −0.29 |
| *lab*tce* | 0.25 | 0.5 | 0.901 |
| *lab*ncE* | 0.5 | 0.5 | b60r |

**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* | 66.71 | 76.06 | −29.79 |
| *LAB*LABa* | 66.71 | 76.06 | −29.79 |
| *LAB*TCHa* | 50.0 | 81.7 | 338.6 |

**relative CIELAB lab***

| | | | |
|---|---|---|---|
| *lab*lab* | 0.699 | 0.931 | −0.364 |
| *lab*tch* | 0.5 | 1.0 | 0.941 |
| *lab*nch* | 0.0 | 1.0 | 0.941 |

**relative Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.699 | 0.813 | −0.581 |
| *lab*tce* | 0.5 | 1.0 | 0.901 |
| *lab*ncE* | 0.0 | 1.0 | b60r |

RE000−7, 3 step scales for constant CIELAB hue 6/360 = 0.017 (left)

3 step scales for constant CIELAB hue 339/360 = 0.941 (right)

BAM-test chart RE00; Colorimetric systems ORS18 & ORS18
A: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

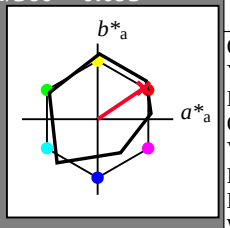
See for similar files: http://www.ps.bam.de/RE00/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-RE00/10S/S00E05SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/RE00/ Form: 6/10, Serie: 1/1, Page: 6 Page: count: 6

**Input: Colorimetric Offset Reflective System ORS18**
**for hue *h** = lab*h = 34/360 = 0.095**
***lab*tch* and *lab*nch***

**A: hue R**
**LCH*Ma: 49 79 34**
**olv*Ma: 1.0 0.0 0.15**

**triangle lightness *t****




**ORS18; adapted (a) CIELAB data**

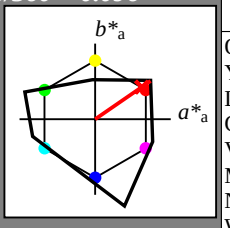
| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 64.42 | 50.58 | 81.9 | 38 |
| $Y_{Ma}$ | 92.62 | 2.41 | 86.36 | 86.39 | 88 |
| $L_{Ma}$ | 50.9 | −63.82 | 35.02 | 72.81 | 151 |
| $C_{Ma}$ | 51.25 | −53.68 | −57.69 | 78.82 | 227 |
| $V_{Ma}$ | 25.72 | 30.34 | −44.37 | 53.76 | 304 |
| $M_{Ma}$ | 56.25 | 70.59 | 7.57 | 70.99 | 6 |
| $N_{Ma}$ | 18.11 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.6 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 60.85 | 41.08 | 73.41 | 34 |
| $J_{CIE}$ | 83.82 | 6.52 | 66.9 | 67.22 | 84 |
| $G_{CIE}$ | 49.0 | −36.83 | 2.78 | 36.95 | 176 |
| $B_{CIE}$ | 25.14 | −18.35 | −56.22 | 59.15 | 252 |

**%Gamut**
**$u^*_{rel}$ = 96**
**%Regularity**
**$g^*_{H,rel}$ = −385**
**$g^*_{C,rel}$ = 62**

**Output: Colorimetric Television Luminous System TLS00**
**for hue *h** = lab*h = 35/360 = 0.096**
***lab*tch* and *lab*nch***

**A: hue R**
**LCH*Ma: 66 89 35**
**olv*Ma: 1.0 0.0 0.01**

**triangle lightness *t****




**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 65.56 | 73.34 | 51.39 | 89.55 | 35 |
| $Y_{Ma}$ | 94.78 | −3.49 | 52.24 | 52.36 | 94 |
| $L_{Ma}$ | 77.48 | −92.97 | 36.0 | 99.71 | 159 |
| $C_{Ma}$ | 78.36 | −82.69 | −22.74 | 85.77 | 195 |
| $V_{Ma}$ | 12.55 | 38.81 | −114.81 | 121.2 | 289 |
| $M_{Ma}$ | 66.71 | 76.08 | −29.8 | 81.71 | 339 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 61.74 | 42.56 | 74.99 | 35 |
| $J_{CIE}$ | 83.82 | 7.06 | 70.78 | 71.13 | 84 |
| $G_{CIE}$ | 49.0 | −35.95 | 4.34 | 36.22 | 173 |
| $B_{CIE}$ | 25.14 | −17.24 | −56.24 | 58.84 | 253 |

**%Gamut**
**$u^*_{rel}$ = 141**
**%Regularity**
**$g^*_{H,rel}$ = 39**
**$g^*_{C,rel}$ = 43**

***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* | 47.72 | 0.0 | 0.0 |
| *LAB*LABa* | 47.72 | 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* | 0.03 | 0.0 | 0.0 |
| *LAB*LABa* | 0.03 | 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 | 0.505 | (1.0) |
| *cmyn3** | 0.0 | 0.5 | 0.495 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.505 | 1.0 |
| *cmyn4** | 0.0 | 0.5 | 0.495 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 80.48 | 36.68 | 25.28 |
| *LAB*LABa* | 80.48 | 36.68 | 25.28 |
| *LAB*TCHa* | 75.0 | 44.55 | 34.58 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.844 | 0.412 | 0.284 |
| *lab*tch* | 0.75 | 0.5 | 0.096 |
| *lab*nch* | 0.0 | 0.5 | 0.096 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.844 | 0.5 | 0.0 |
| *lab*tce* | 0.75 | 0.5 | 1.0 |
| *lab*ncE* | 0.0 | 0.5 | b99r |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.5 | 0.0 | 0.005 | (1.0) |
| *cmyn3** | 0.5 | 1.0 | 0.995 | (0.0) |
| *olvi4** | 1.0 | 0.5 | 0.505 | 0.5 |
| *cmyn4** | 0.0 | 0.5 | 0.495 | 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 32.79 | 36.68 | 25.29 |
| *LAB*LABa* | 32.79 | 36.68 | 25.29 |
| *LAB*TCHa* | 25.01 | 44.55 | 34.59 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.344 | 0.412 | 0.284 |
| *lab*tch* | 0.25 | 0.5 | 0.096 |
| *lab*nch* | 0.5 | 0.5 | 0.096 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.344 | 0.5 | 0.0 |
| *lab*tce* | 0.25 | 0.5 | 0.0 |
| *lab*ncE* | 0.5 | 0.5 | r00j |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 1.0 | 0.0 | 0.01 | (1.0) |
| *cmyn3** | 0.0 | 1.0 | 0.99 | (0.0) |
| *olvi4** | 1.0 | 0.0 | 0.01 | 1.0 |
| *cmyn4** | 0.0 | 1.0 | 0.99 | 0.0 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 65.57 | 73.35 | 50.57 |
| *LAB*LABa* | 65.57 | 73.35 | 50.57 |
| *LAB*TCHa* | 50.0 | 89.1 | 34.58 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.687 | 0.823 | 0.568 |
| *lab*tch* | 0.5 | 1.0 | 0.096 |
| *lab*nch* | 0.0 | 1.0 | 0.096 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.687 | 1.0 | 0.0 |
| *lab*tce* | 0.5 | 1.0 | 0.0 |
| *lab*ncE* | 0.0 | 1.0 | r00j |

*n** = 0,00
**blackness *n****
0,25 0,50 *n** = 0,50 0,75 1,00
**chromaticness *c****
*n** = 1,0

*n** = 0,00
**blackness *n****
0,25 0,50 *n** = 0,50 0,75 1,00
**chromaticness *c****
*n** = 1,0

RE000−7, 3 step scales for constant CIELAB hue 34/360 = 0.095 (left)
3 step scales for constant CIELAB hue 35/360 = 0.096 (right)

BAM-test chart RE00; Colorimetric systems ORS18 & ORS18
A: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/RE00/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-RE00/10S/S00E06SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

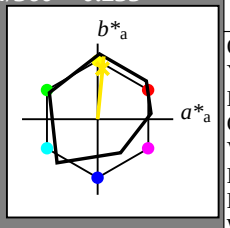
/RE00/ Form: 7/10, Serie: 1/1, Page: 7 Page: count: 7

## Input: Colorimetric Offset Reflective System ORS18

**for hue *h** = lab*h = 84/360 = 0.235**
***lab*tch* and *lab*nch***

**A: hue J**
**LCH*Ma: 89 83 84**
**olv*Ma: 1.0 0.91 0.0**

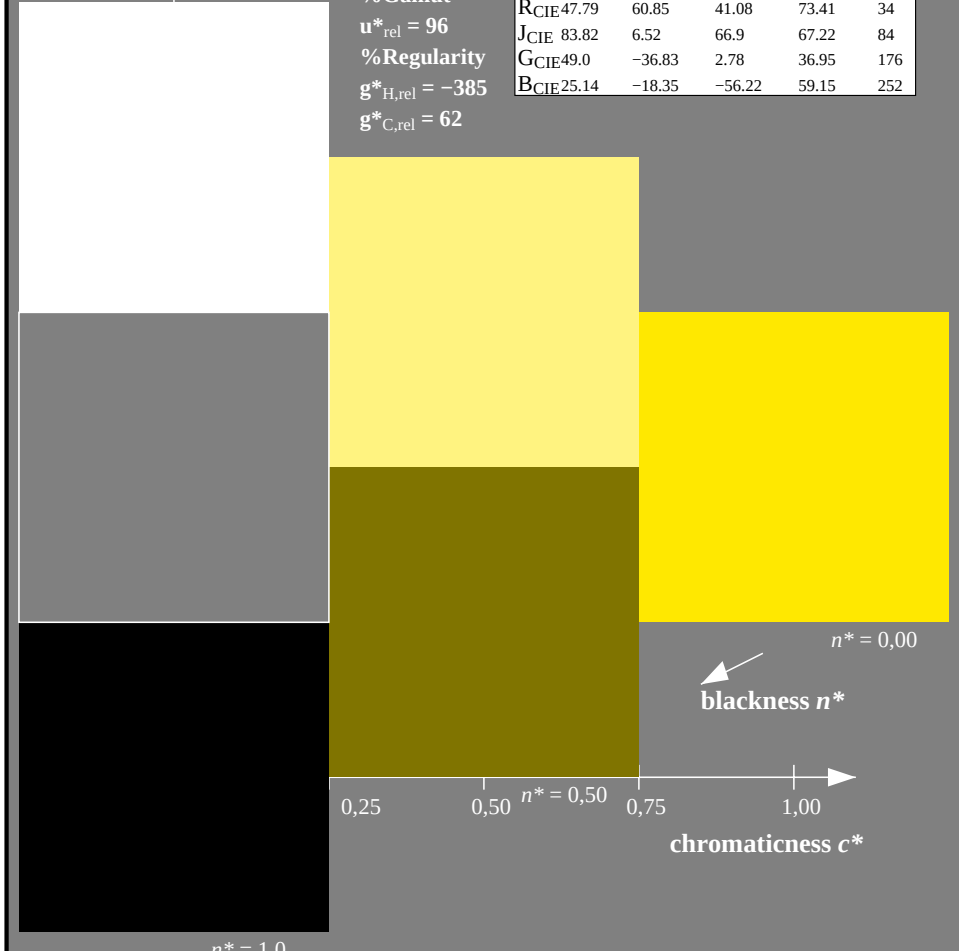
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 96**
**%Regularity**
**$g^*_{H,rel}$ = −385**
**$g^*_{C,rel}$ = 62**

**ORS18; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 64.42 | 50.58 | 81.9 | 38 |
| $Y_{Ma}$ | 92.62 | 2.41 | 86.36 | 86.39 | 88 |
| $L_{Ma}$ | 50.9 | −63.82 | 35.02 | 72.81 | 151 |
| $C_{Ma}$ | 51.25 | −53.68 | −57.69 | 78.82 | 227 |
| $V_{Ma}$ | 25.72 | 30.34 | −44.37 | 53.76 | 304 |
| $M_{Ma}$ | 56.25 | 70.59 | 7.57 | 70.99 | 6 |
| $N_{Ma}$ | 18.11 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.6 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 60.85 | 41.08 | 73.41 | 34 |
| $J_{CIE}$ | 83.82 | 6.52 | 66.9 | 67.22 | 84 |
| $G_{CIE}$ | 49.0 | −36.83 | 2.78 | 36.95 | 176 |
| $B_{CIE}$ | 25.14 | −18.35 | −56.22 | 59.15 | 252 |

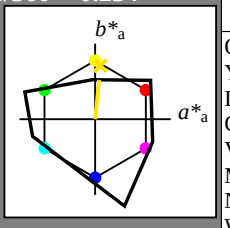



## Output: Colorimetric Television Luminous System TLS00

**for hue *h** = lab*h = 84/360 = 0.234**
***lab*tch* and *lab*nch***

**A: hue J**
**LCH*Ma: 91 52 84**
**olv*Ma: 1.0 0.89 0.0**

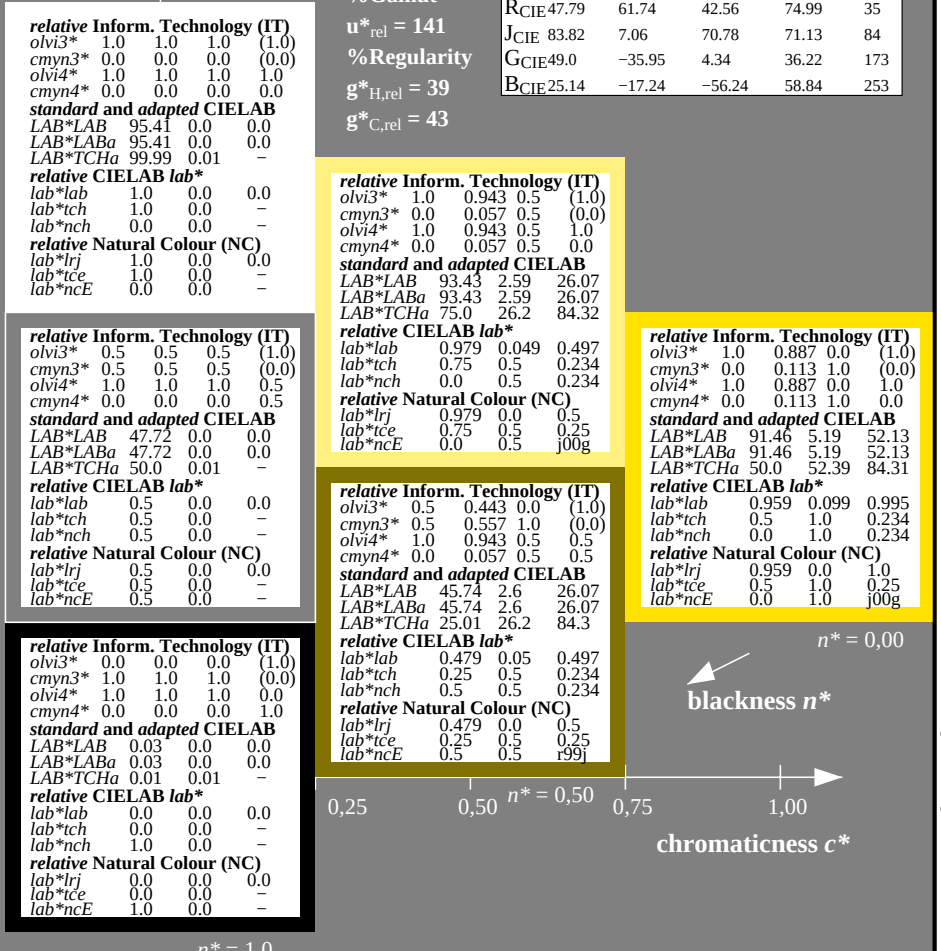
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 141**
**%Regularity**
**$g^*_{H,rel}$ = 39**
**$g^*_{C,rel}$ = 43**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 65.56 | 73.34 | 51.39 | 89.55 | 35 |
| $Y_{Ma}$ | 94.78 | −3.49 | 52.24 | 52.36 | 94 |
| $L_{Ma}$ | 77.48 | −92.97 | 36.0 | 99.71 | 159 |
| $C_{Ma}$ | 78.36 | −82.69 | −22.74 | 85.77 | 195 |
| $V_{Ma}$ | 12.55 | 38.81 | −114.81 | 121.2 | 289 |
| $M_{Ma}$ | 66.71 | 76.08 | −29.8 | 81.71 | 339 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 61.74 | 42.56 | 74.99 | 35 |
| $J_{CIE}$ | 83.82 | 7.06 | 70.78 | 71.13 | 84 |
| $G_{CIE}$ | 49.0 | −35.95 | 4.34 | 36.22 | 173 |
| $B_{CIE}$ | 25.14 | −17.24 | −56.24 | 58.84 | 253 |




| | | | | |
|---|---|---|---|---|
| ***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* | 47.72 | 0.0 | 0.0 | |
| *LAB*LABa* | 47.72 | 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* | 0.03 | 0.0 | 0.0 | |
| *LAB*LABa* | 0.03 | 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 | 0.943 | 0.5 | (1.0) |
| *cmyn3** | 0.0 | 0.057 | 0.5 | (0.0) |
| *olvi4** | 1.0 | 0.943 | 0.5 | 1.0 |
| *cmyn4** | 0.0 | 0.057 | 0.5 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 93.43 | 2.59 | 26.07 | |
| *LAB*LABa* | 93.43 | 2.59 | 26.07 | |
| *LAB*TCHa* | 75.0 | 26.2 | 84.32 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.979 | 0.049 | 0.497 | |
| *lab*tch* | 0.75 | 0.5 | 0.234 | |
| *lab*nch* | 0.0 | 0.5 | 0.234 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.979 | 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 | 0.443 | 0.0 | (1.0) |
| *cmyn3** | 0.5 | 0.557 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 0.943 | 0.5 | 0.5 |
| *cmyn4** | 0.0 | 0.057 | 0.5 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 45.74 | 2.6 | 26.07 | |
| *LAB*LABa* | 45.74 | 2.6 | 26.07 | |
| *LAB*TCHa* | 25.01 | 26.2 | 84.3 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.479 | 0.05 | 0.497 | |
| *lab*tch* | 0.25 | 0.5 | 0.234 | |
| *lab*nch* | 0.5 | 0.5 | 0.234 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.479 | 0.0 | 0.5 | |
| *lab*tce* | 0.25 | 0.5 | 0.25 | |
| *lab*ncE* | 0.5 | 0.5 | r99j | |

| | | | | |
|---|---|---|---|---|
| ***relative* Inform. Technology (IT)** | | | | |
| *olvi3** | 1.0 | 0.887 | 0.0 | (1.0) |
| *cmyn3** | 0.0 | 0.113 | 1.0 | (0.0) |
| *olvi4** | 1.0 | 0.887 | 0.0 | 1.0 |
| *cmyn4** | 0.0 | 0.113 | 1.0 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 91.46 | 5.19 | 52.13 | |
| *LAB*LABa* | 91.46 | 5.19 | 52.13 | |
| *LAB*TCHa* | 50.0 | 52.39 | 84.31 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.959 | 0.099 | 0.995 | |
| *lab*tch* | 0.5 | 1.0 | 0.234 | |
| *lab*nch* | 0.0 | 1.0 | 0.234 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.959 | 0.0 | 1.0 | |
| *lab*tce* | 0.5 | 1.0 | 0.25 | |
| *lab*ncE* | 0.0 | 1.0 | j00g | |

RE000−7, 3 step scales for constant CIELAB hue 84/360 = 0.235 (left)

3 step scales for constant CIELAB hue 84/360 = 0.234 (right)

BAM-test chart RE00; Colorimetric systems ORS18 & ORS18
A: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/RE00/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

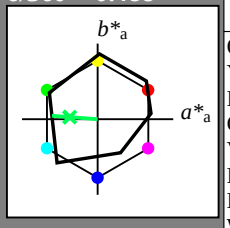
BAM registration: 20060101-RE00/10S/S00E07SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

/RE00/ Form: 8/10, Serie: 1/1, Page: 8 Page: count: 8

**Input: Colorimetric Offset Reflective System ORS18**
**for hue *h** = lab*h = 176/360 = 0.488**
***lab*tch* and *lab*nch***

**A: hue G**
**LCH*Ma: 51 61 176**
**olv*Ma: 0.0 1.0 0.33**

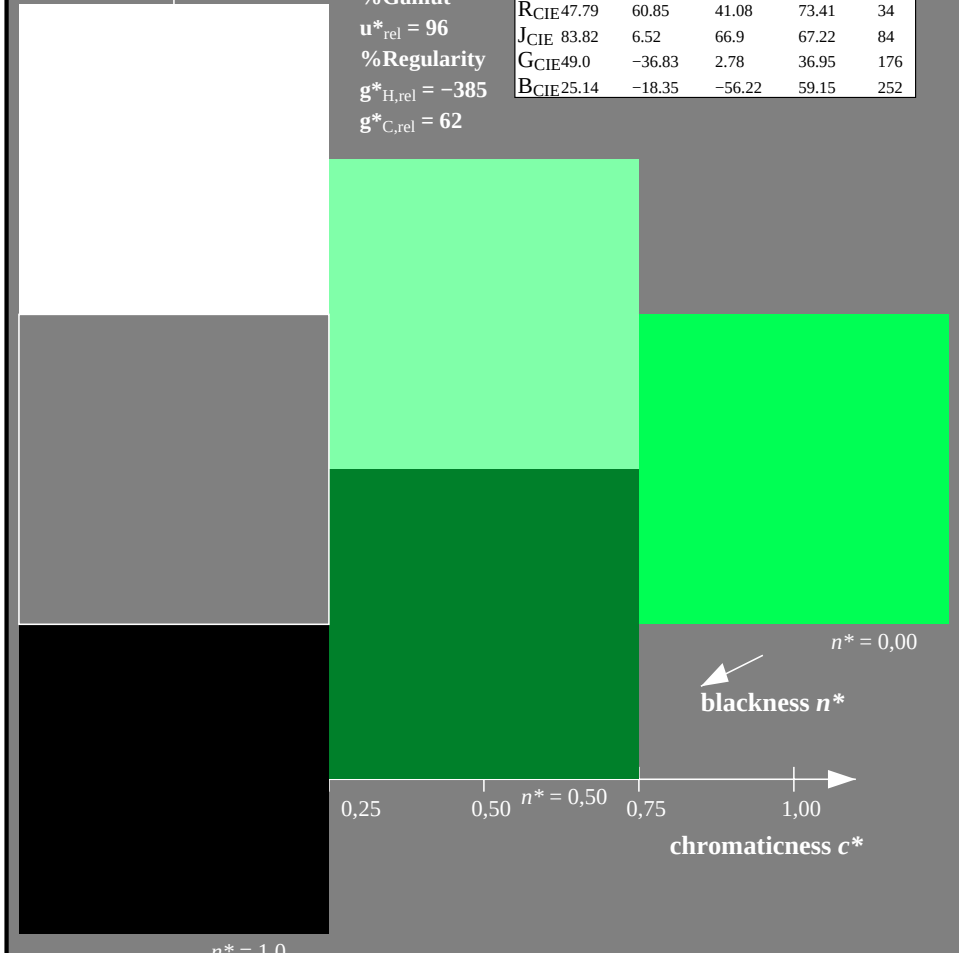
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 96**
**%Regularity**
**$g^*_{H,rel}$ = −385**
**$g^*_{C,rel}$ = 62**

**ORS18; adapted (a) CIELAB data**

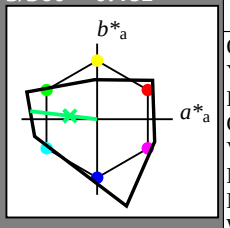
| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 64.42 | 50.58 | 81.9 | 38 |
| $Y_{Ma}$ | 92.62 | 2.41 | 86.36 | 86.39 | 88 |
| $L_{Ma}$ | 50.9 | −63.82 | 35.02 | 72.81 | 151 |
| $C_{Ma}$ | 51.25 | −53.68 | −57.69 | 78.82 | 227 |
| $V_{Ma}$ | 25.72 | 30.34 | −44.37 | 53.76 | 304 |
| $M_{Ma}$ | 56.25 | 70.59 | 7.57 | 70.99 | 6 |
| $N_{Ma}$ | 18.11 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.6 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 60.85 | 41.08 | 73.41 | 34 |
| $J_{CIE}$ | 83.82 | 6.52 | 66.9 | 67.22 | 84 |
| $G_{CIE}$ | 49.0 | −36.83 | 2.78 | 36.95 | 176 |
| $B_{CIE}$ | 25.14 | −18.35 | −56.22 | 59.15 | 252 |




**Output: Colorimetric Television Luminous System TLS00**
**for hue *h** = lab*h = 173/360 = 0.481**
***lab*tch* and *lab*nch***

**A: hue G**
**LCH*Ma: 78 89 173**
**olv*Ma: 0.0 1.0 0.43**

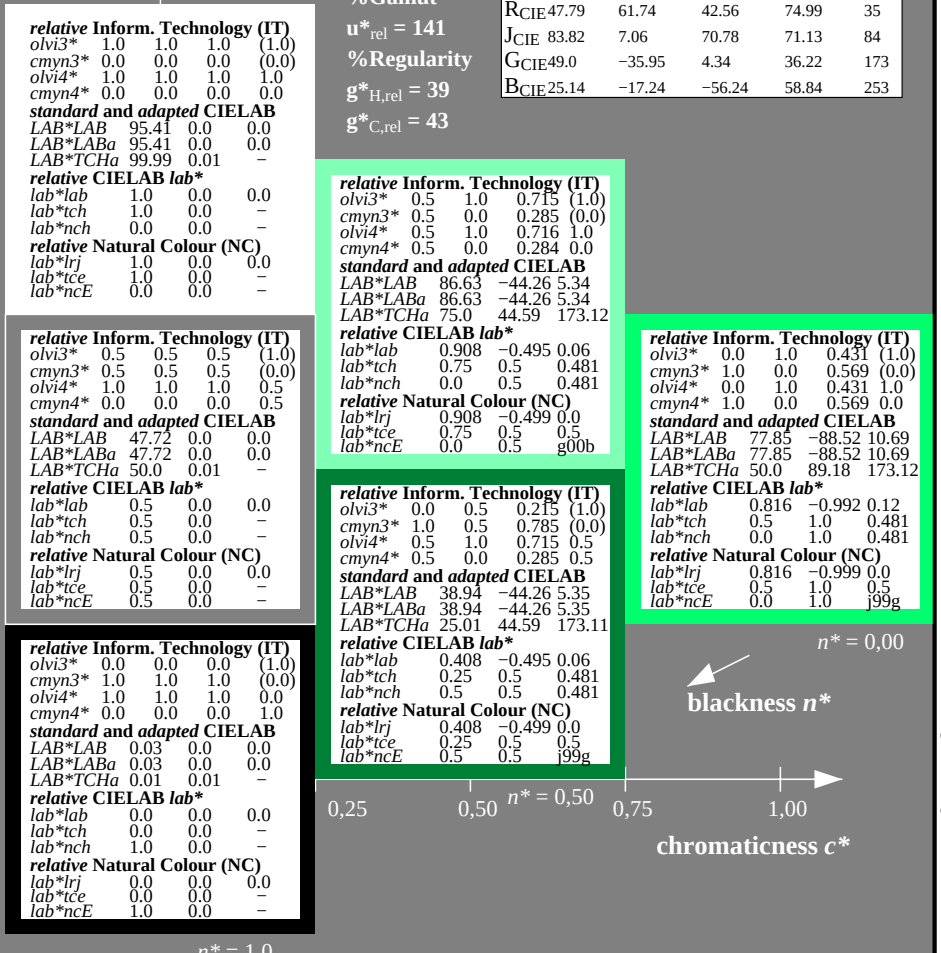
**triangle lightness *t****




**%Gamut**
**$u^*_{rel}$ = 141**
**%Regularity**
**$g^*_{H,rel}$ = 39**
**$g^*_{C,rel}$ = 43**

**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 65.56 | 73.34 | 51.39 | 89.55 | 35 |
| $Y_{Ma}$ | 94.78 | −3.49 | 52.24 | 52.36 | 94 |
| $L_{Ma}$ | 77.48 | −92.97 | 36.0 | 99.71 | 159 |
| $C_{Ma}$ | 78.36 | −82.69 | −22.74 | 85.77 | 195 |
| $V_{Ma}$ | 12.55 | 38.81 | −114.81 | 121.2 | 289 |
| $M_{Ma}$ | 66.71 | 76.08 | −29.8 | 81.71 | 339 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 61.74 | 42.56 | 74.99 | 35 |
| $J_{CIE}$ | 83.82 | 7.06 | 70.78 | 71.13 | 84 |
| $G_{CIE}$ | 49.0 | −35.95 | 4.34 | 36.22 | 173 |
| $B_{CIE}$ | 25.14 | −17.24 | −56.24 | 58.84 | 253 |




***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* | 47.72 | 0.0 | 0.0 | |
| *LAB*LABa* | 47.72 | 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* | 0.03 | 0.0 | 0.0 | |
| *LAB*LABa* | 0.03 | 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 | 0.715 | (1.0) |
| *cmyn3** | 0.5 | 0.0 | 0.285 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.716 | 1.0 |
| *cmyn4** | 0.5 | 0.0 | 0.284 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 86.63 | −44.26 | 5.34 | |
| *LAB*LABa* | 86.63 | −44.26 | 5.34 | |
| *LAB*TCHa* | 75.0 | 44.59 | 173.12 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.908 | −0.495 | 0.06 | |
| *lab*tch* | 0.75 | 0.5 | 0.481 | |
| *lab*nch* | 0.0 | 0.5 | 0.481 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.908 | −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 | 0.215 | (1.0) |
| *cmyn3** | 1.0 | 0.5 | 0.785 | (0.0) |
| *olvi4** | 0.5 | 1.0 | 0.715 | 0.5 |
| *cmyn4** | 0.5 | 0.0 | 0.285 | 0.5 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 38.94 | −44.26 | 5.35 | |
| *LAB*LABa* | 38.94 | −44.26 | 5.35 | |
| *LAB*TCHa* | 25.01 | 44.59 | 173.11 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.408 | −0.495 | 0.06 | |
| *lab*tch* | 0.25 | 0.5 | 0.481 | |
| *lab*nch* | 0.5 | 0.5 | 0.481 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.408 | −0.499 | 0.0 | |
| *lab*tce* | 0.25 | 0.5 | 0.5 | |
| *lab*ncE* | 0.5 | 0.5 | j99g | |

***relative* Inform. Technology (IT)**

| | | | | |
|---|---|---|---|---|
| *olvi3** | 0.0 | 1.0 | 0.431 | (1.0) |
| *cmyn3** | 1.0 | 0.0 | 0.569 | (0.0) |
| *olvi4** | 0.0 | 1.0 | 0.431 | 1.0 |
| *cmyn4** | 1.0 | 0.0 | 0.569 | 0.0 |
| ***standard* and *adapted* CIELAB** | | | | |
| *LAB*LAB* | 77.85 | −88.52 | 10.69 | |
| *LAB*LABa* | 77.85 | −88.52 | 10.69 | |
| *LAB*TCHa* | 50.0 | 89.18 | 173.12 | |
| ***relative* CIELAB *lab**** | | | | |
| *lab*lab* | 0.816 | −0.992 | 0.12 | |
| *lab*tch* | 0.5 | 1.0 | 0.481 | |
| *lab*nch* | 0.0 | 1.0 | 0.481 | |
| ***relative* Natural Colour (NC)** | | | | |
| *lab*lrj* | 0.816 | −0.999 | 0.0 | |
| *lab*tce* | 0.5 | 1.0 | 0.5 | |
| *lab*ncE* | 0.0 | 1.0 | j99g | |

RE000−7, 3 step scales for constant CIELAB hue 176/360 = 0.488 (left)

3 step scales for constant CIELAB hue 173/360 = 0.481 (right)

BAM-test chart RE00; Colorimetric systems ORS18 & ORS18
A: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

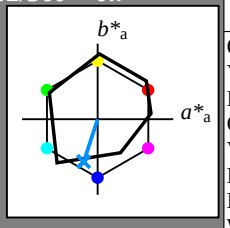
See for similar files: http://www.ps.bam.de/RE00/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-RE00/10S/S00E08SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/RE00/ Form: 9/10, Serie: 1/1, Page: 9 Page: count: 9

**Input: Colorimetric Offset Reflective System ORS18**
**for hue *h** = lab*h = 252/360 = 0.7**
***lab*tch* and *lab*nch***

**A: hue B**
**LCH*Ma: 40 55 252**
**olv*Ma: 0.0 0.56 1.0**

**triangle lightness *t****




**ORS18; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 47.94 | 64.42 | 50.58 | 81.9 | 38 |
| $Y_{Ma}$ | 92.62 | 2.41 | 86.36 | 86.39 | 88 |
| $L_{Ma}$ | 50.9 | −63.82 | 35.02 | 72.81 | 151 |
| $C_{Ma}$ | 51.25 | −53.68 | −57.69 | 78.82 | 227 |
| $V_{Ma}$ | 25.72 | 30.34 | −44.37 | 53.76 | 304 |
| $M_{Ma}$ | 56.25 | 70.59 | 7.57 | 70.99 | 6 |
| $N_{Ma}$ | 18.11 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.6 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 60.85 | 41.08 | 73.41 | 34 |
| $J_{CIE}$ | 83.82 | 6.52 | 66.9 | 67.22 | 84 |
| $G_{CIE}$ | 49.0 | −36.83 | 2.78 | 36.95 | 176 |
| $B_{CIE}$ | 25.14 | −18.35 | −56.22 | 59.15 | 252 |

**%Gamut**
**$u^*_{rel}$ = 96**
**%Regularity**
**$g^*_{H,rel}$ = −385**
**$g^*_{C,rel}$ = 62**

***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* | 47.72 | 0.0 | 0.0 |
| *LAB*LABa* | 47.72 | 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**

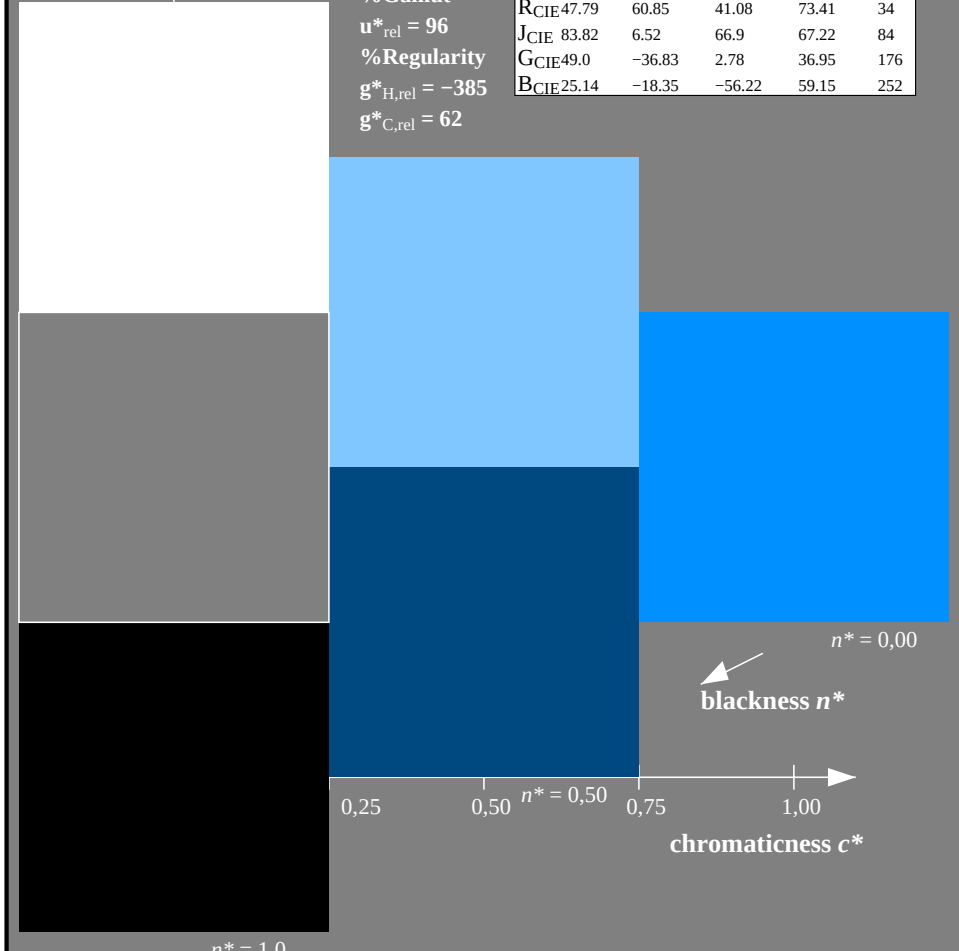
| | | | |
|---|---|---|---|
| *LAB*LAB* | 0.03 | 0.0 | 0.0 |
| *LAB*LABa* | 0.03 | 0.0 | 0.0 |
| *LAB*TCHa* | 0.01 | 0.01 | – |

***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)**

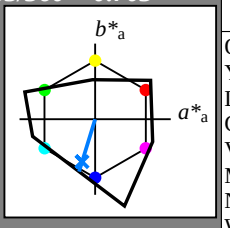
| | | | |
|---|---|---|---|
| *lab*lrj* | 0.0 | 0.0 | 0.0 |
| *lab*tce* | 0.0 | 0.0 | – |
| *lab*ncE* | 1.0 | 0.0 | – |




**Output: Colorimetric Television Luminous System TLS00**
**for hue *h** = lab*h = 253/360 = 0.703**
***lab*tch* and *lab*nch***

**A: hue B**
**LCH*Ma: 45 72 253**
**olv*Ma: 0.0 0.49 1.0**

**triangle lightness *t****




**TLS00; adapted (a) CIELAB data**

| | $L^*=L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|---|---|---|---|---|---|
| $O_{Ma}$ | 65.56 | 73.34 | 51.39 | 89.55 | 35 |
| $Y_{Ma}$ | 94.78 | −3.49 | 52.24 | 52.36 | 94 |
| $L_{Ma}$ | 77.48 | −92.97 | 36.0 | 99.71 | 159 |
| $C_{Ma}$ | 78.36 | −82.69 | −22.74 | 85.77 | 195 |
| $V_{Ma}$ | 12.55 | 38.81 | −114.81 | 121.2 | 289 |
| $M_{Ma}$ | 66.71 | 76.08 | −29.8 | 81.71 | 339 |
| $N_{Ma}$ | 0.01 | 0.0 | 0.0 | 0.0 | 0 |
| $W_{Ma}$ | 95.41 | 0.0 | 0.0 | 0.0 | 0 |
| $R_{CIE}$ | 47.79 | 61.74 | 42.56 | 74.99 | 35 |
| $J_{CIE}$ | 83.82 | 7.06 | 70.78 | 71.13 | 84 |
| $G_{CIE}$ | 49.0 | −35.95 | 4.34 | 36.22 | 173 |
| $B_{CIE}$ | 25.14 | −17.24 | −56.24 | 58.84 | 253 |

**%Gamut**
**$u^*_{rel}$ = 141**
**%Regularity**
**$g^*_{H,rel}$ = 39**
**$g^*_{C,rel}$ = 43**

***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* | 70.24 | −10.62 | −34.63 |
| *LAB*LABa* | 70.24 | −10.62 | −34.63 |
| *LAB*TCHa* | 75.0 | 36.24 | 252.94 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.736 | −0.146 | −0.477 |
| *lab*tch* | 0.75 | 0.5 | 0.703 |
| *lab*nch* | 0.0 | 0.5 | 0.703 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.736 | 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 | 0.247 | 0.5 | (1.0) |
| *cmyn3** | 1.0 | 0.753 | 0.5 | (0.0) |
| *olvi4** | 0.5 | 0.747 | 1.0 | 0.5 |
| *cmyn4** | 0.5 | 0.253 | 0.0 | 0.5 |

***standard* and *adapted* CIELAB**

| | | | |
|---|---|---|---|
| *LAB*LAB* | 22.55 | −10.61 | −34.64 |
| *LAB*LABa* | 22.55 | −10.61 | −34.64 |
| *LAB*TCHa* | 25.01 | 36.24 | 252.96 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.236 | −0.145 | −0.477 |
| *lab*tch* | 0.25 | 0.5 | 0.703 |
| *lab*nch* | 0.5 | 0.5 | 0.703 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.236 | 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 | 0.494 | 1.0 | (1.0) |
| *cmyn3** | 1.0 | 0.506 | 0.0 | (0.0) |
| *olvi4** | 0.0 | 0.494 | 1.0 | 1.0 |
| *cmyn4** | 1.0 | 0.506 | 0.0 | 0.0 |

***standard* and *adapted* CIELAB**

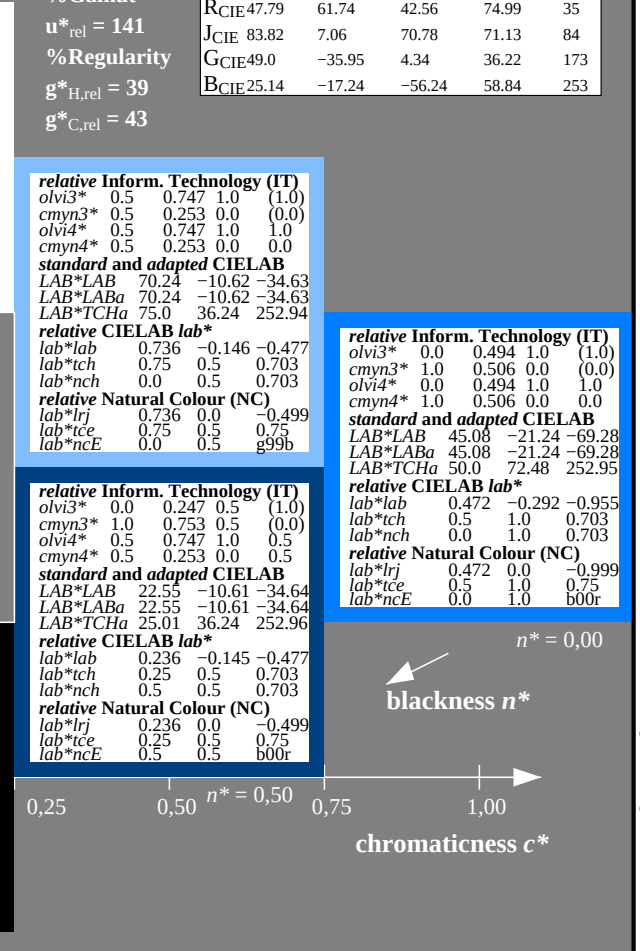
| | | | |
|---|---|---|---|
| *LAB*LAB* | 45.08 | −21.24 | −69.28 |
| *LAB*LABa* | 45.08 | −21.24 | −69.28 |
| *LAB*TCHa* | 50.0 | 72.48 | 252.95 |

***relative* CIELAB *lab****

| | | | |
|---|---|---|---|
| *lab*lab* | 0.472 | −0.292 | −0.955 |
| *lab*tch* | 0.5 | 1.0 | 0.703 |
| *lab*nch* | 0.0 | 1.0 | 0.703 |

***relative* Natural Colour (NC)**

| | | | |
|---|---|---|---|
| *lab*lrj* | 0.472 | 0.0 | −0.999 |
| *lab*tce* | 0.5 | 1.0 | 0.75 |
| *lab*ncE* | 0.0 | 1.0 | b00r |




RE000−7, 3 step scales for constant CIELAB hue 252/360 = 0.7 (left)

3 step scales for constant CIELAB hue 253/360 = 0.703 (right)

BAM-test chart RE00; Colorimetric systems ORS18 & ORS18
A: 3 step colour scales and coordinate data for 10 hues

input: *olv* setrgbcolor*
output: *Startup (S) data dependend*

See for similar files: http://www.ps.bam.de/RE00/
Technical information: http://www.ps.bam.de Version 2.1, io=1,1?

BAM registration: 20060101-RE00/10S/S00E09SP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems
/RE00/ Form: 10/10,Serie: 1/1, Page: 10 Page: count: 10