

See for similar files: <http://www.ps.bam.de/UE06/>  
 Technical information: <http://www.ps.bam.de>

Version 2.1, io=0.0

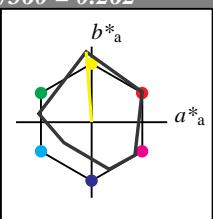
## Input: Colorimetric Reflective System MRS18a

for hue  $h^* = lab^*h = 94/360 = 0.262$   
 $lab^*tch$  and  $lab^*nch$

D65: hue J

LCH\*Ma: 91 93 94

olv\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$ 

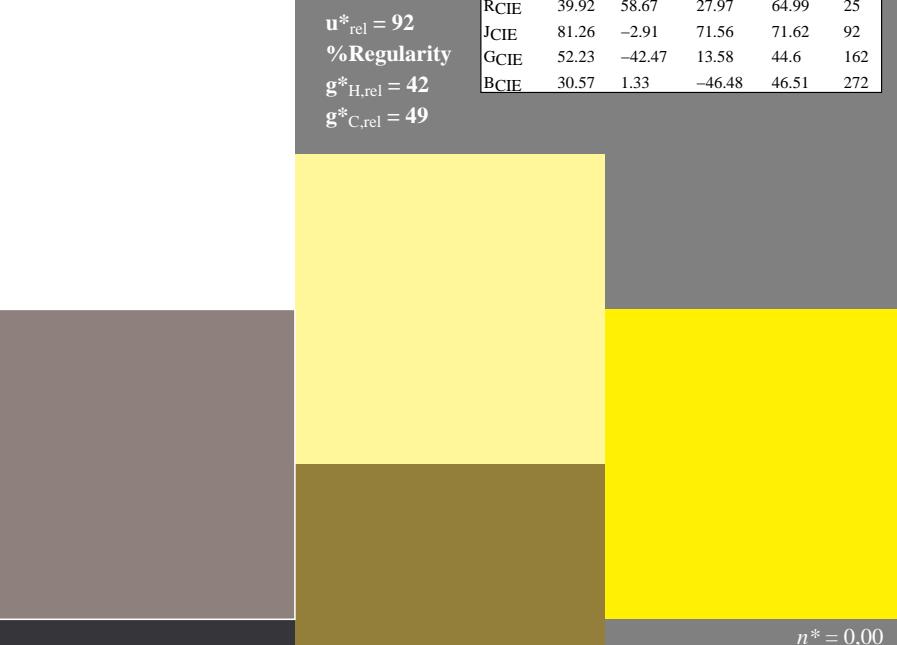
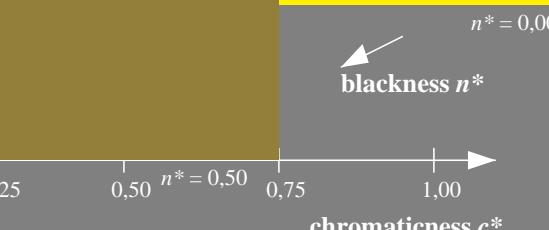
## MRS18a; adapted (a) CIELAB data

|        | $L^*$ = $L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|--------|-----------------|---------|---------|--------------|--------------|
| RMa    | 49.63           | 66.8    | 40.02   | 77.87        | 31           |
| JMa    | 90.7            | -7.27   | 93.19   | 93.48        | 94           |
| GMa    | 52.11           | -69.93  | 11.26   | 70.85        | 171          |
| G50BMa | 45.03           | -36.65  | -27.13  | 45.61        | 217          |
| BMa    | 36.65           | 23.26   | -62.27  | 66.49        | 290          |
| B50RMa | 34.94           | 57.27   | -43.6   | 71.99        | 323          |
| NMa    | 18.01           | 0.0     | 0.0     | 0.0          | 0            |
| WMa    | 95.41           | 0.0     | 0.0     | 0.0          | 0            |
| RCIE   | 39.92           | 58.67   | 27.97   | 64.99        | 25           |
| JCIE   | 81.26           | -2.91   | 71.56   | 71.62        | 92           |
| GCIE   | 52.23           | -42.47  | 13.58   | 44.6         | 162          |
| BCIE   | 30.57           | 1.33    | -46.48  | 46.51        | 272          |

%Gamut

 $u^*_{rel} = 92$ 

%Regularity

 $g^*_{H,rel} = 42$  $g^*_{C,rel} = 49$  $n^* = 1,0$ 

$n^* = 0,00$   
 blackness  $n^*$

chromaticness  $c^*$ 

UE060-7, 3 step scales for constant CIELAB hue 94/360 = 0.262 (left)

BAM-test chart UE06; Colorimetric systems MRS18a & ORS18 input: cmy0\* setcmykcolor  
 D65: 3 step colour scales and coordinate data for 10 hues

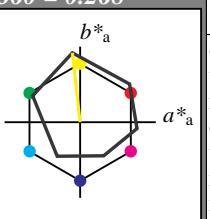
## Output: Colorimetric Reflective System ORS18

for hue  $h^* = lab^*h = 96/360 = 0.268$  $lab^*tch$  and  $lab^*nch$ 

D65: hue Y

LCH\*Ma: 90 92 96

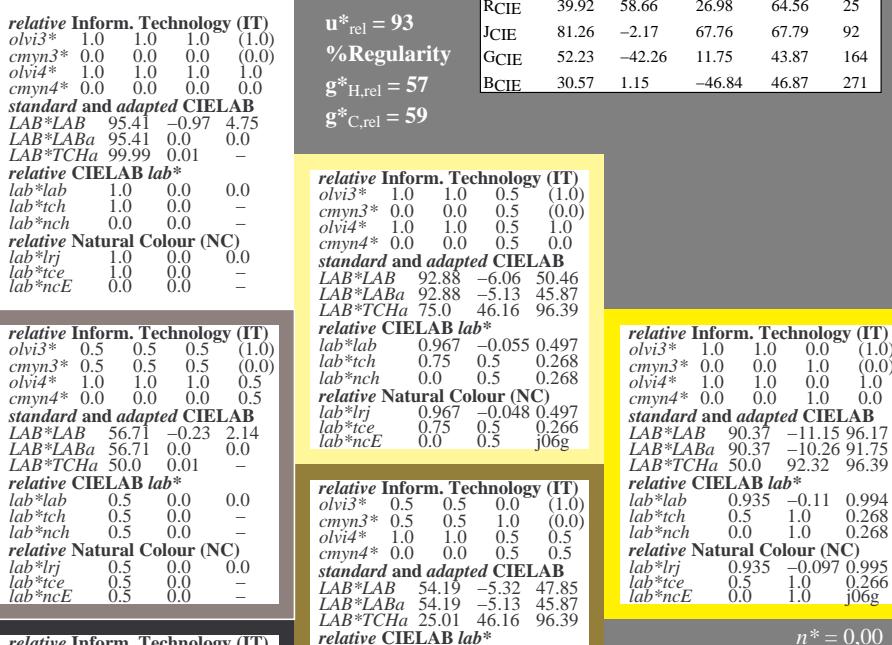
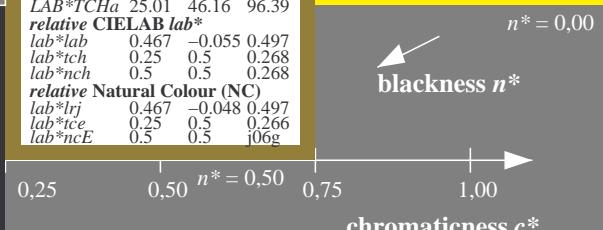
olv\*Ma: 1.0 1.0 0.0

triangle lightness  $t^*$ 

%Gamut

 $u^*_{rel} = 93$ 

%Regularity

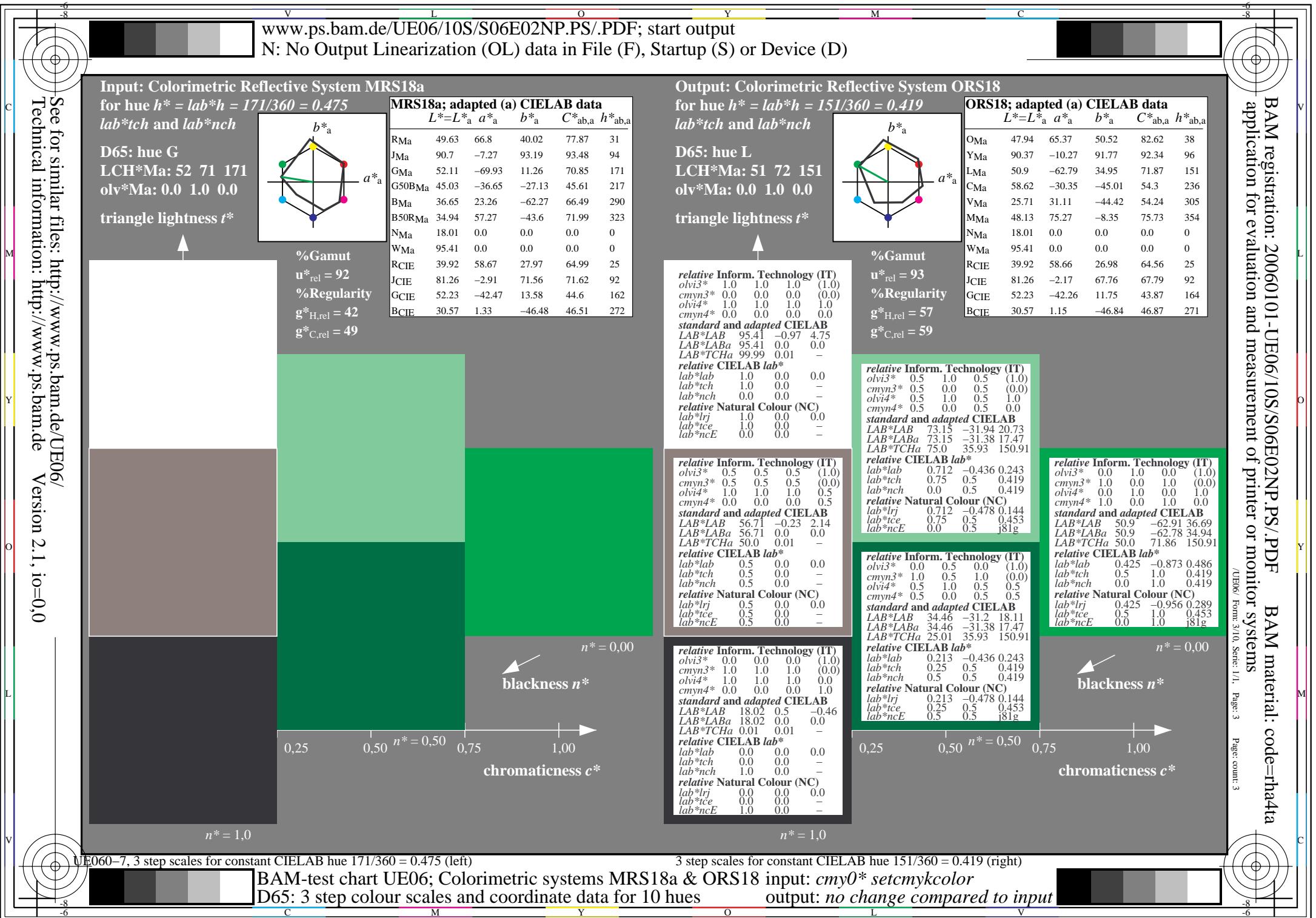
 $g^*_{H,rel} = 57$  $g^*_{C,rel} = 59$  $n^* = 1,0$ 

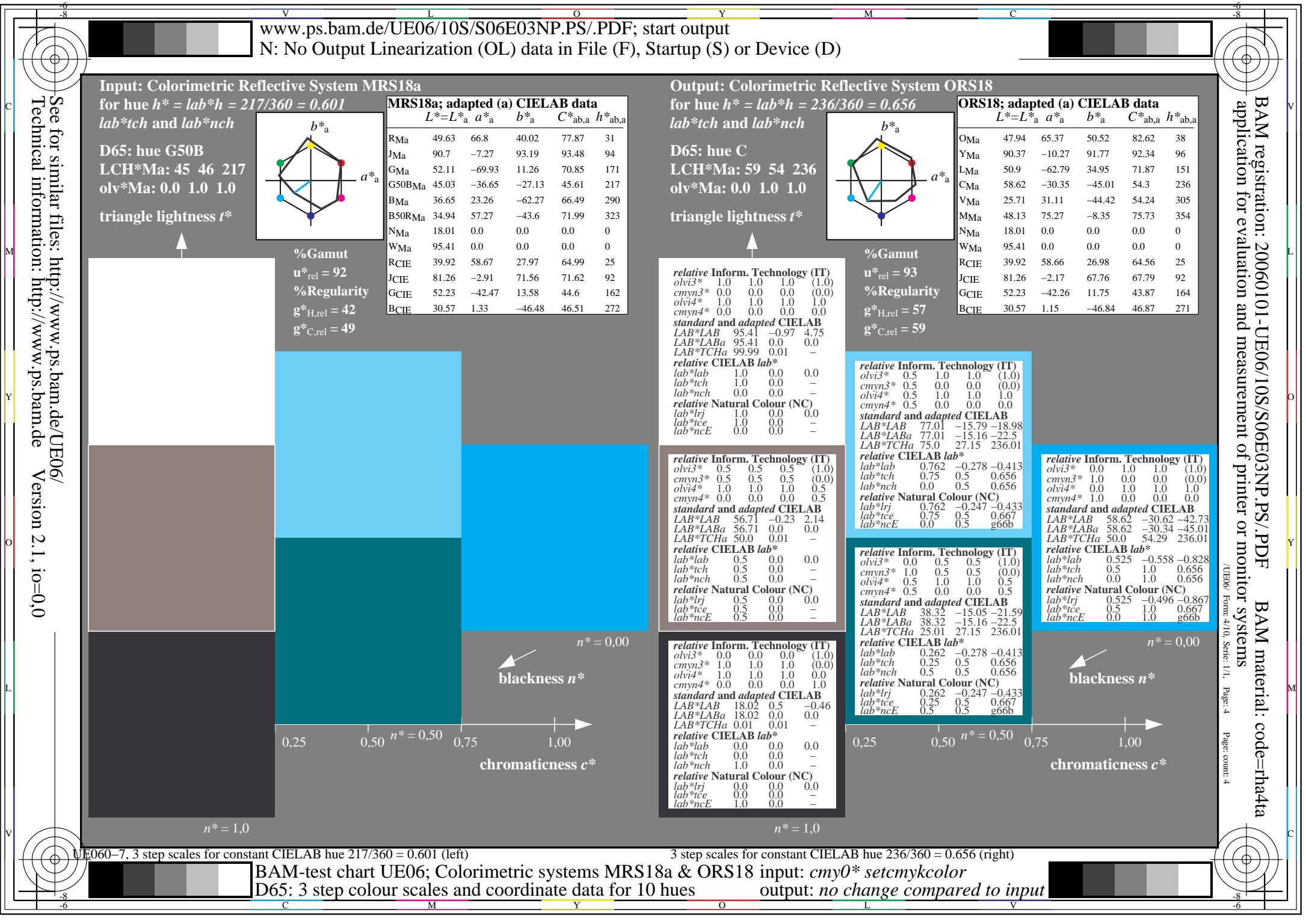
$n^* = 0,00$   
 blackness  $n^*$

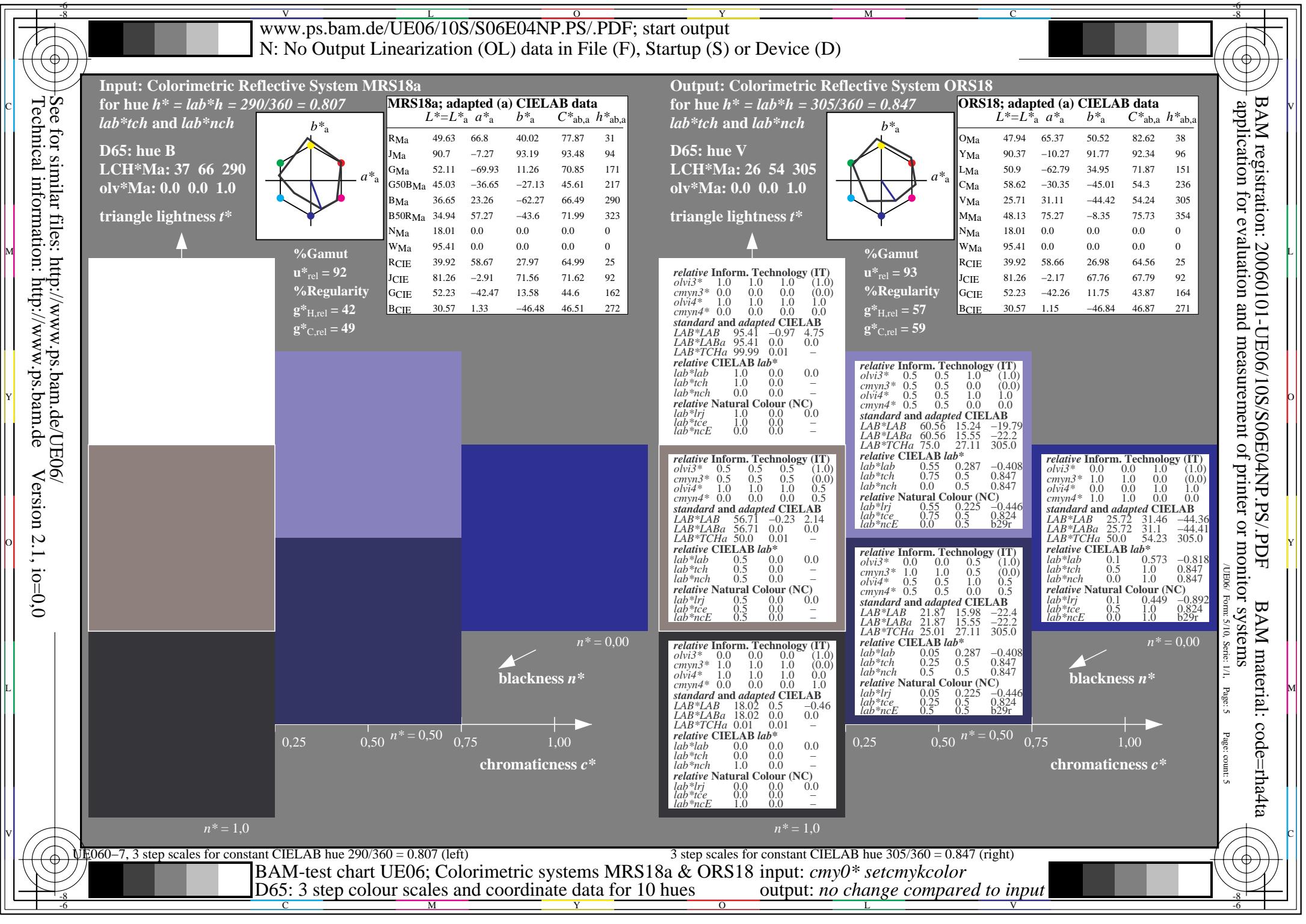
chromaticness  $c^*$ 

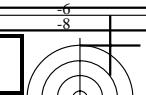
3 step scales for constant CIELAB hue 96/360 = 0.268 (right)

output: no change compared to input









BAM registration: 20060101-UE06/10S/S06E05NP.PS/.PDF  
application for evaluation and measurement of printer or monitor

HF BAM material: code=rha4ta  
onitor systems

1

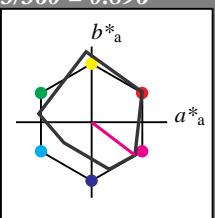
See for similar files: <http://www.ps.bam.de>  
Technical information: <http://www.ps.bam.de>

06/  
Version 2.1, io=0,0

**Input: Colorimetric Reflective System MRS18a**

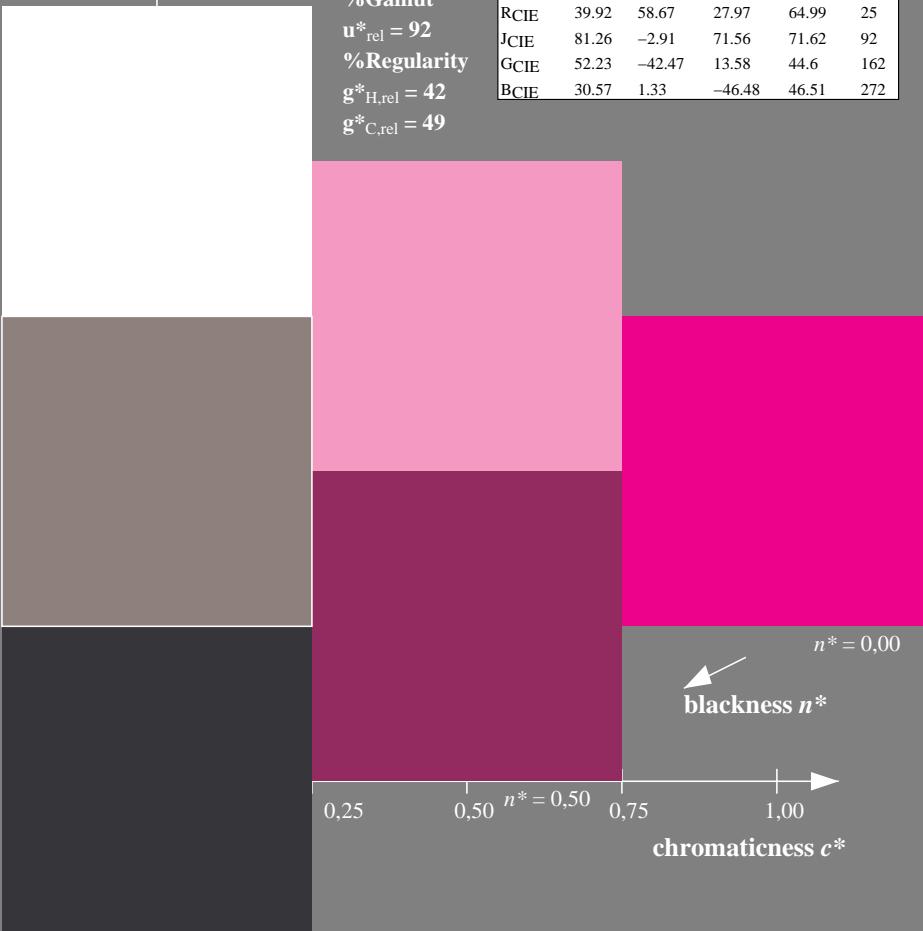
for hue  $h^* = lab^*h = 323/360 = 0.896$   
 $lab^*tch$  and  $lab^*nch$

D65: hue B50R  
LCH\*Ma: 35 72 323  
olv\*Ma: 1.0 0.0 1.0  
triangle lightness  $\ell^*$



| MRS18a; adapted (a) |       | CIELAB data      |       |        |                   |                   |
|---------------------|-------|------------------|-------|--------|-------------------|-------------------|
|                     | $L^*$ | $L^*_{\text{a}}$ | $a^*$ | $b^*$  | $a^*_{\text{ab}}$ | $b^*_{\text{ab}}$ |
| RMa                 | 49.63 | 66.8             |       | 40.02  | 77.87             | 31                |
| JMa                 | 90.7  | -7.27            |       | 93.19  | 93.48             | 94                |
| GMa                 | 52.11 | -69.93           |       | 11.26  | 70.85             | 171               |
| G50BMa              | 45.03 | -36.65           |       | -27.13 | 45.61             | 217               |
| BMa                 | 36.65 | 23.26            |       | -62.27 | 66.49             | 290               |
| B50RMa              | 34.94 | 57.27            |       | -43.6  | 71.99             | 323               |
| NMa                 | 18.01 | 0.0              |       | 0.0    | 0.0               | 0                 |
| WMa                 | 95.41 | 0.0              |       | 0.0    | 0.0               | 0                 |
| RCIE                | 39.92 | 58.67            |       | 27.97  | 64.99             | 25                |
| JCIE                | 81.26 | -2.91            |       | 71.56  | 71.62             | 92                |
| GCIE                | 52.23 | -42.47           |       | 13.58  | 44.6              | 162               |
| BCIE                | 30.57 | 1.33             |       | -46.48 | 46.51             | 272               |

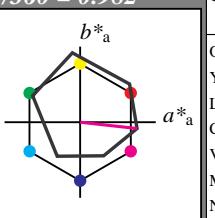
**%Gamut**  
 $u^*_{\text{rel}} = 92$   
**%Regular**  
 $g^*_{H,\text{rel}} = 42$   
 $g^*_{C,\text{rel}} = 49$



Output: Colorimetric Reflective System ORS18

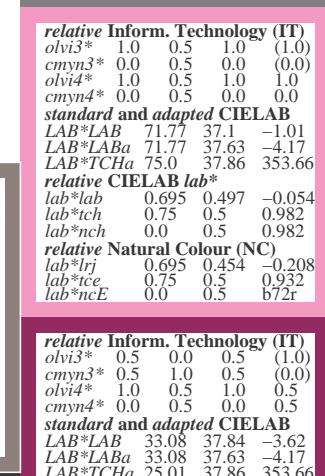
for hue  $h^* = lab^*h = 354/360 = 0.982$   
 $lab^*tch$  and  $lab^*nch$

D65: hue M  
LCH\*Ma: 48 76 354  
olv\*Ma: 1.0 0.0 1.0

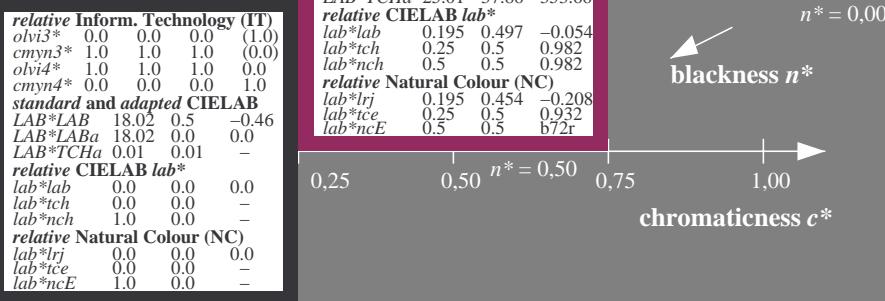


| DRS18; adapted (a) CIELAB data |                 |         |         |              |              |  |
|--------------------------------|-----------------|---------|---------|--------------|--------------|--|
|                                | $L^*$ = $L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |  |
| DMa                            | 47.94           | 65.37   | 50.52   | 82.62        | 38           |  |
| VMa                            | 90.37           | -10.27  | 91.77   | 92.34        | 96           |  |
| CMa                            | 50.9            | -62.79  | 34.95   | 71.87        | 151          |  |
| EMa                            | 58.62           | -30.35  | -45.01  | 54.3         | 236          |  |
| WMa                            | 25.71           | 31.11   | -44.42  | 54.24        | 305          |  |
| MMa                            | 48.13           | 75.27   | -8.35   | 75.73        | 354          |  |
| NMa                            | 18.01           | 0.0     | 0.0     | 0.0          | 0            |  |
| VMa                            | 95.41           | 0.0     | 0.0     | 0.0          | 0            |  |
| RCIE                           | 39.92           | 58.66   | 26.98   | 64.56        | 25           |  |
| CIE                            | 81.26           | -2.17   | 67.76   | 67.79        | 92           |  |
| GCIE                           | 52.23           | -42.26  | 11.75   | 43.87        | 164          |  |
| BCIE                           | 30.57           | 1.15    | -46.84  | 46.87        | 271          |  |

**%Gamut**  
 $u^*_{\text{rel}} = 93$   
**%Regularity**  
 $g^*_{H,\text{rel}} = 57$   
 $g^*_{C,\text{rel}} = 59$



| <b>relative Inform.</b>             | <b>Technology (IT)</b> |
|-------------------------------------|------------------------|
| olvi3*                              | 0.5                    |
| cmyn3*                              | 0.5                    |
| olvi4*                              | 1.0                    |
| cmyn4*                              | 0.0                    |
| <b>standard and adapted CIELAB</b>  |                        |
| LAB*LAB                             | 56.71                  |
| LAB*LABa                            | 56.71                  |
| LAB*TChA                            | 50.0                   |
| <b>relative CIELAB lab*</b>         |                        |
| lab*lab                             | 0.5                    |
| lab*tch                             | 0.5                    |
| lab*ncb                             | 0.5                    |
| <b>relative Natural Colour (NC)</b> |                        |
| lab*trj                             | 0.5                    |
| lab*ice                             | 0.5                    |
| lab*ncE                             | 0.5                    |



3 step scales for constant CIELAB hue 354/360 = 0.982 (right)

BAM-test chart UE06; Colorimetric systems MRS18a & ORS18 input: *cmy0\* setcmykcolor*

## BAM test chart CE66; Colorimetric systems MRS10a & GPD65: 3 step colour scales and coordinate data for 10 hues

output: no change compared to input

