

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
 Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

TUB registration: 20110801-OE73/OE73L6NA.TXT /.PS      TUB material: code=rha4ta  
- application for output of displays: monitor systems or data projector systems

Input: Colorimetric Television Luminous System TLS00a

for hue  $h^* = lab^*h = 328/360 = 0.912$

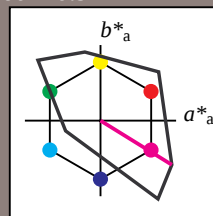
**lab\*tch and lab\*nch**

D65: hue M

**LCH\*Ma: 57 111 328**

**olv\*Ma: 1.0 0.0 1.0**

triangle lightness  $t^*$



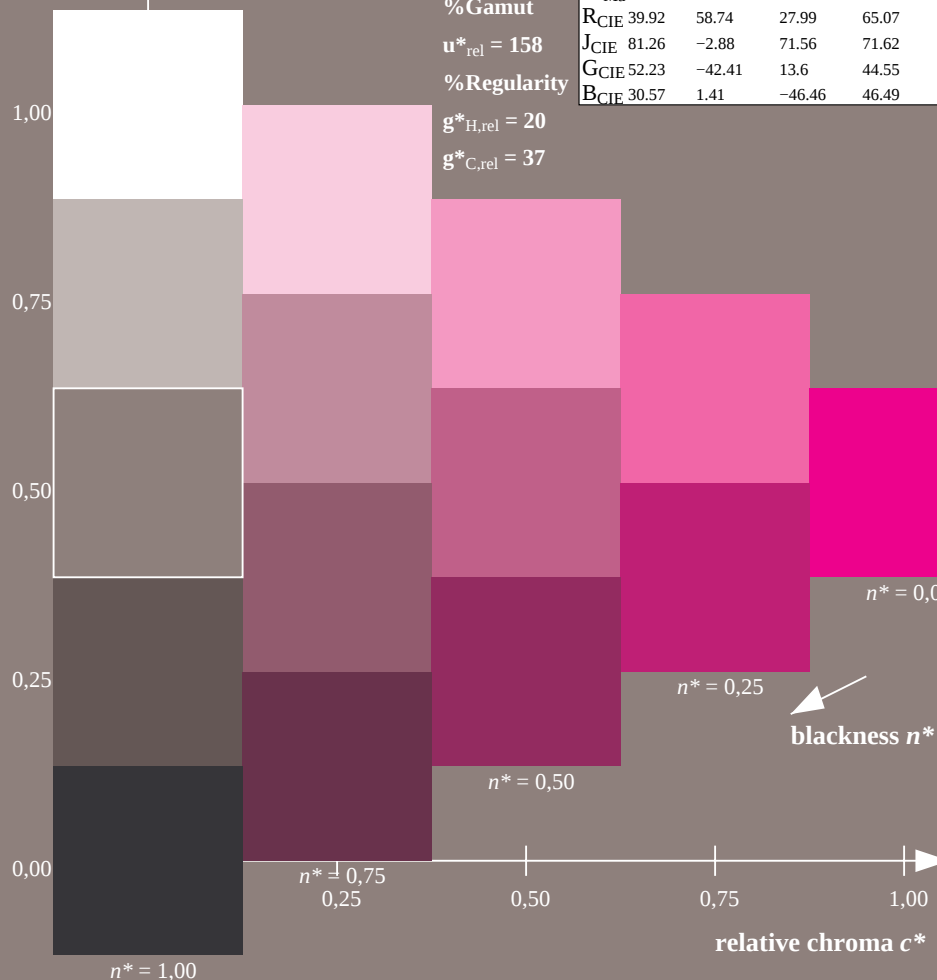
%Gamut

$$u_{rel}^* = 15$$

### %Regularity

$$g^*_{H_{rel}} = 20$$
$$g^*_{C_{rel}} = 37$$

| TLS00a; adapted (a) CIELAB data |         |         |         |              |              |
|---------------------------------|---------|---------|---------|--------------|--------------|
|                                 | $L^*_a$ | $a^*_a$ | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| O <sub>Ma</sub>                 | 50.5    | 76.92   | 64.55   | 100.42       | 40           |
| Y <sub>Ma</sub>                 | 92.66   | -20.69  | 90.75   | 93.08        | 103          |
| L <sub>Ma</sub>                 | 83.63   | -82.75  | 79.9    | 115.04       | 136          |
| C <sub>Ma</sub>                 | 86.88   | -46.16  | -13.55  | 48.12        | 196          |
| V <sub>Ma</sub>                 | 30.39   | 76.06   | -103.59 | 128.52       | 306          |
| M <sub>Ma</sub>                 | 57.3    | 94.35   | -58.41  | 110.97       | 328          |
| N <sub>Ma</sub>                 | 0.01    | 0.0     | 0.0     | 0.0          | 0            |
| W <sub>Ma</sub>                 | 95.41   | 0.0     | 0.0     | 0.0          | 0            |
| R <sub>CIE</sub>                | 39.92   | 58.74   | 27.99   | 65.07        | 25           |
| J <sub>CIE</sub>                | 81.26   | -2.88   | 71.56   | 71.62        | 92           |
| G <sub>CIE</sub>                | 52.23   | -42.41  | 13.6    | 44.55        | 162          |
| B <sub>CIE</sub>                | 30.57   | 1.41    | -46.46  | 46.49        | 272          |



OE730-7N-020-5: 5 step scales for constant CIELAB hue  $328/360 = 0.912$  (left)

OE73: Test chart 2 according to DIN 33872-2, Hue M; DH  
Discrimination of 5 and 16 step colour scales

**Output: Colorimetric Television Luminous System TLS00a**

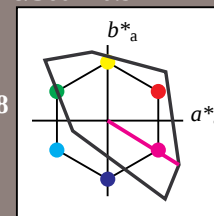
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for hue  $h^* = lab^*h = 328/360 = 0.912$ 
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**lab\*tch and lab\*nch**

D65: hue M

LCH\*Ma: 57 111 328

olv\*Ma: 1.0 0.0 1.0

triangle lightness  $t^*$ 

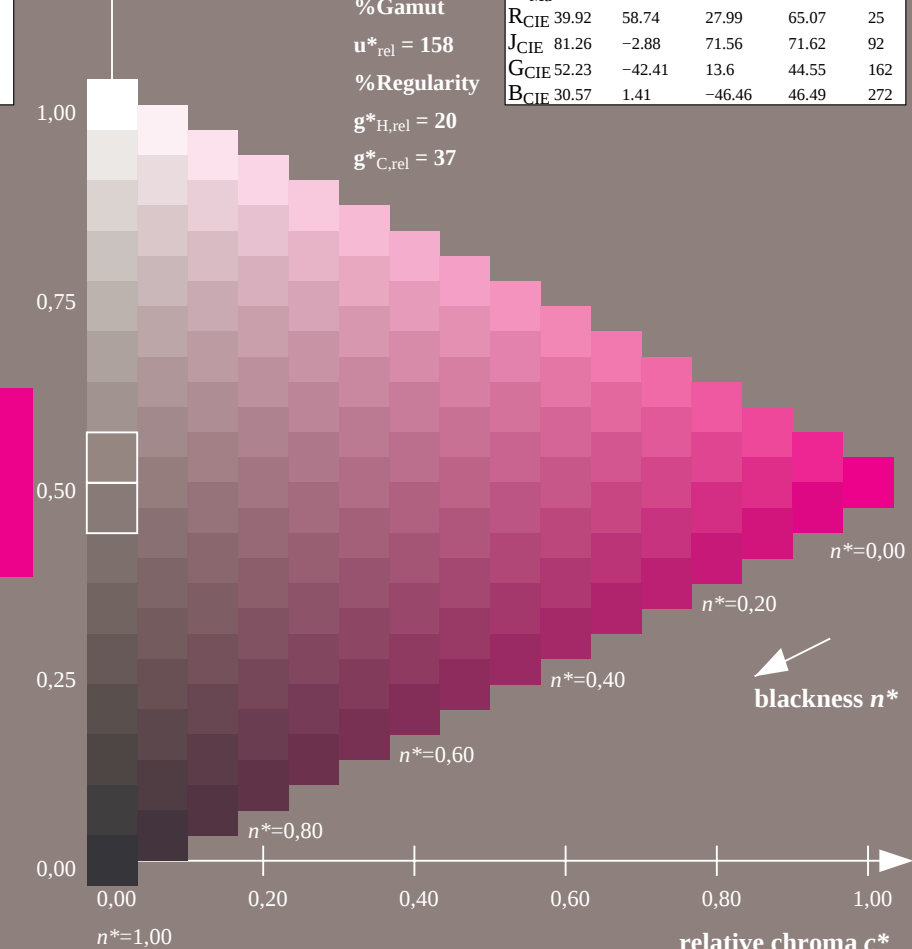
%Gamut

$$\mathbf{u}_{\text{rel}}^* = \mathbf{15}$$

### %Regularity

$$g^*_{H_{rel}} = 20$$
$$\mathbf{g}_{\text{C rel}}^* = 37$$

| TLS00a; adapted (a) CIELAB data |            |            |            |              |              |
|---------------------------------|------------|------------|------------|--------------|--------------|
|                                 | $L^*_{*a}$ | $a^*_{*a}$ | $b^*_{*a}$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
| Q <sub>Ma</sub>                 | 50.5       | 76.92      | 64.55      | 100.42       | 40           |
| Y <sub>Ma</sub>                 | 92.66      | -20.69     | 90.75      | 93.08        | 103          |
| L <sub>Ma</sub>                 | 83.63      | -82.75     | 79.9       | 115.04       | 136          |
| C <sub>Ma</sub>                 | 86.88      | -46.16     | -13.55     | 48.12        | 196          |
| V <sub>Ma</sub>                 | 30.39      | 76.06      | -103.59    | 128.52       | 306          |
| M <sub>Ma</sub>                 | 57.3       | 94.35      | -58.41     | 110.97       | 328          |
| N <sub>Ma</sub>                 | 0.01       | 0.0        | 0.0        | 0.0          | 0            |
| W <sub>Ma</sub>                 | 95.41      | 0.0        | 0.0        | 0.0          | 0            |
| R <sub>CIE</sub>                | 39.92      | 58.74      | 27.99      | 65.07        | 25           |
| J <sub>CIE</sub>                | 81.26      | -2.88      | 71.56      | 71.62        | 92           |
| G <sub>CIE</sub>                | 52.23      | -42.41     | 13.6       | 44.55        | 162          |
| B <sub>CIE</sub>                | 30.57      | 1.41       | -46.46     | 46.49        | 272          |



16 step scales for constant CIELAB hue 328/360 = 0.912 (right)

input: *cmy0* ( $\rightarrow cmy0*d$ ) *setcmyk*  
output 020-5: no change