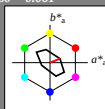


# Input: Colorimetric Television Luminous System TLS70

for hue  $h^* = lab^*h = 22/360 = 0.061$   
 $lab^*ch$  and  $lab^*nh$

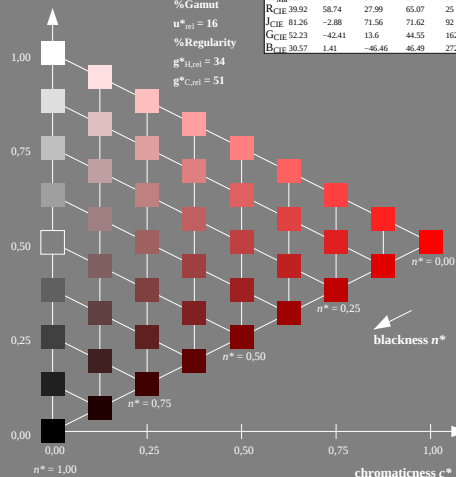
D65: hue O  
LCH\*Ma: 76 28 22  
olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



|                  | $L^*=L_a^*$ | $a^*$  | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|--------|---------|--------------|--------------|
| O <sub>Ma</sub>  | 76.43       | 26.27  | 10.57   | 28.32        | 22           |
| Y <sub>Ma</sub>  | 93.93       | -10.76 | 34.63   | 36.27        | 107          |
| L <sub>Ma</sub>  | 89.32       | -35.8  | 27.64   | 45.24        | 142          |
| C <sub>Ma</sub>  | 90.93       | -21.95 | -7.07   | 23.07        | 198          |
| V <sub>Ma</sub>  | 72.1        | 15.76  | -35.63  | 38.97        | 294          |
| M <sub>Ma</sub>  | 78.5        | 37.52  | -25.23  | 45.22        | 326          |
| N <sub>Ma</sub>  | 69.7        | 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          |

%Gamut  
 $u^*_{rel} = 16$   
%Regularity  
 $g^*_{H,rel} = 34$   
 $g^*_{C,rel} = 51$



NE780-7, 9 step scales for constant CIELAB hue 22/360 = 0.061 (left)

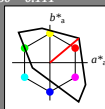
BAM-test chart NE78; Colorimetric systems TLS70 & TLS00  
D65: 9 and 16 step colour scales for 10 hues

# Output: Colorimetric Television Luminous System TLS00

for hue  $h^* = lab^*h = 40/360 = 0.111$   
 $lab^*ch$  and  $lab^*nh$

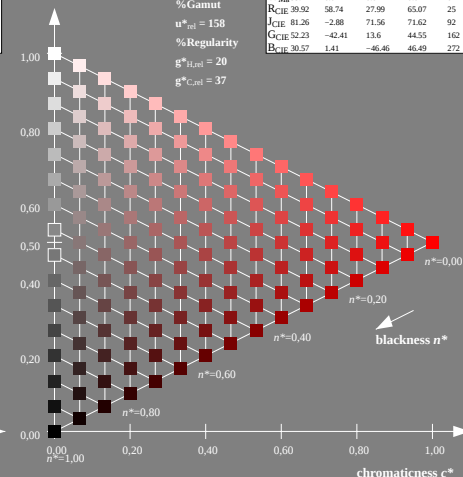
D65: hue O  
LCH\*Ma: 51 100 40  
olv\*Ma: 1.0 0.0 0.0

triangle lightness  $t^*$



|                  | $L^*=L_a^*$ | $a^*$  | $b^*_a$ | $C^*_{ab,a}$ | $h^*_{ab,a}$ |
|------------------|-------------|--------|---------|--------------|--------------|
| 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          |

%Gamut  
 $u^*_{rel} = 158$   
%Regularity  
 $g^*_{H,rel} = 20$   
 $g^*_{C,rel} = 37$



16 step scales for constant CIELAB hue 40/360 = 0.111 (right)

BAM material: code=th4ta  
input: olv\* setrgbcolor  
output: olv\* setrgbcolor / w\* setgray