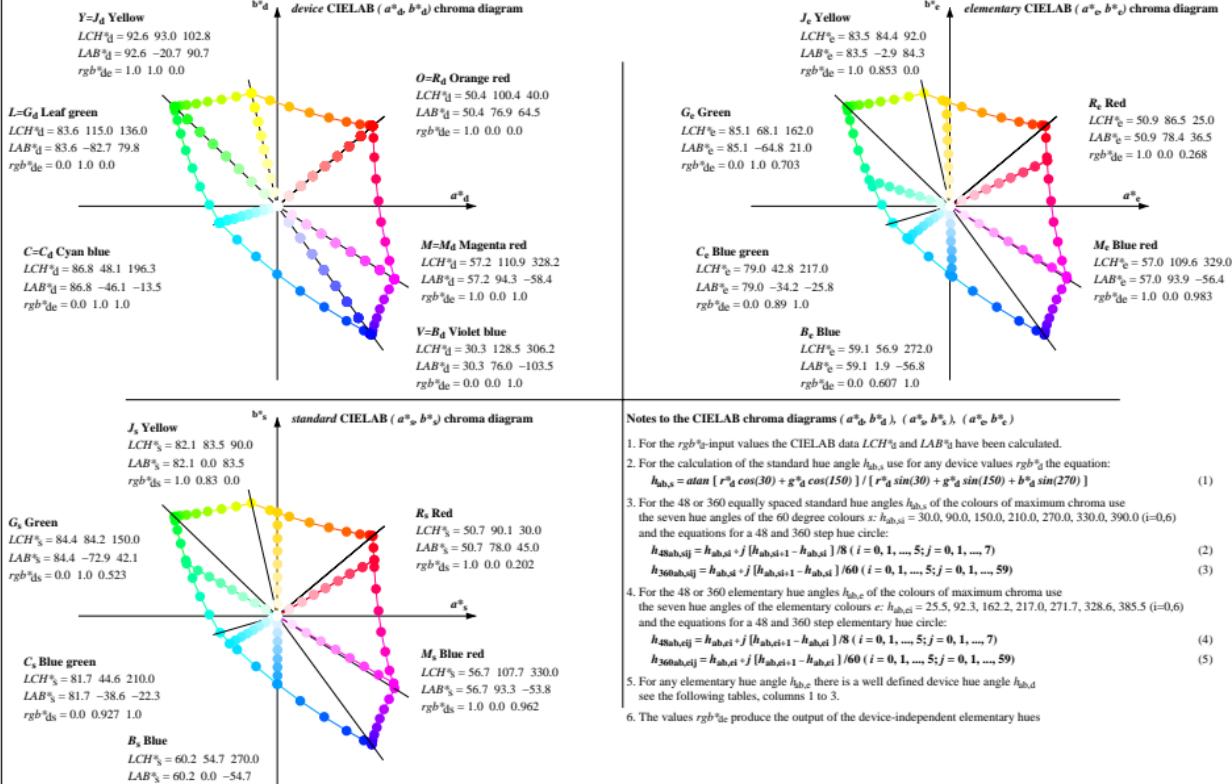


http://130.149.60.45/~farbmetrikk/OE40/0E40L0N1.TXT/.PS; start output  
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

Data of Maximum color M in colorimetric system sRGB standard device; no separation, D65 for input or output; Six hue angles of the 60 degree standard colours  $s: h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ; Six hue angles of the device colours  $d: h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$ ; Six hue angles of the elementary colours  $e: h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



#### Notes to the CIELAB chroma diagrams ( $a^*_d, b^*_d$ , $a^*_s, b^*_s$ , $a^*_e, b^*_e$ )

- For the  $rgb^*$ -input values the CIELAB data  $LCH^*$  and  $LAB^*$  have been calculated.
- For the calculation of the standard hue angle  $h_{ab,s}$  use for any device values  $rgb^*$  the equation:  

$$h_{ab,s} = \text{atan} [ (r_d^* \cos(30) + g_d^* \cos(150)) / (r_d^* \sin(30) + g_d^* \sin(150)) ] + b_d^* \sin(270)$$
 (1)
- For the 48 or 360 equally spaced standard hue angles  $h_{ab,s}$  of the colours of maximum chroma use the seven hue angles of 90 degree colours  $s: h_{ab,s} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$  (i=0..6) and the equations for a 48 and 360 step hue circle:  

$$h_{48ab,sij} = h_{ab,s,i} + j [h_{ab,s,i+1} - h_{ab,s,i}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7)$$
 (2)  

$$h_{360ab,sij} = h_{ab,s,i} + j [h_{ab,s,i+1} - h_{ab,s,i}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59)$$
 (3)
- For a 48 or 360 elementary hue angles  $h_{ab,e}$  of the colours of maximum chroma use the seven hue angles of the elementary colours  $e: h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$  (i=0..6) and the equations for a 48 and 360 step elementary hue circle:  

$$h_{48ab,ei} = h_{ab,e,i} + j [h_{ab,e,i+1} - h_{ab,e,i}] / 8 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 7)$$
 (4)  

$$h_{360ab,ei} = h_{ab,e,i} + j [h_{ab,e,i+1} - h_{ab,e,i}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59)$$
 (5)
- For any elementary hue angle  $h_{ab,e}$  there is a well defined device hue angle  $h_{ab,d}$  see the following tables, columns 1 to 3.
- The values  $rgb^*$  produce the output of the device-independent elementary hues

OE40-7N, Page of series 1/9, LAB\*rc, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB\*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0, not adapted=adapted

TUB-test chart OE40; 48 and 360 step hue circles, Page 1/1

Data of standard monitor sRGB, no separation, D65

Output: sRGB standard device; no separation, D65, page 1/110

input:  $rgb^*_d$  setrgbcolor  
output: no change