

Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C_{ab,a}^*$, L^*)

System: SE42_HRS27_96_D65_00%_G0

CIELAB hue angles:

$h_{ab,d}=[33, 98, 150, 227, 301, 350]$

$h_{ab,dx}=[34, 99, 149, 227, 301, 351]$

$$l^*=(L^*-L_N^*)/(L_W^*-L_N^*)$$

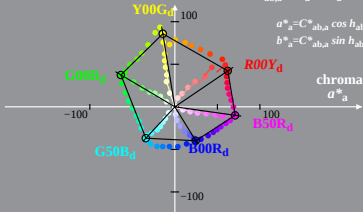
$$a_a^*=a^*-a_N^*-l^*[a_W^*-a_N^*]$$

$$b_a^*=b^*-b_N^*-l^*[b_W^*-b_N^*]$$

$$C_{ab,a}^*=[a_a^{*2}+b_a^{*2}]^{1/2}$$

$$a_a^*=C_{ab,a}^*\cos h_{ab}$$

$$b_a^*=C_{ab,a}^*\sin h_{ab}$$



SE420-4A, 1; cf1=0.95; nt=0.18; nx=1.0

Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C_{ab,a}^*$, L^*)

System: SE42_HRS27_96_D65_00%_G1

CIELAB hue angles:

$h_{ab,d}=[33, 98, 150, 227, 301, 350]$

$h_{ab,dx}=[33, 98, 150, 227, 301, 350]$

$$l^*=(L^*-L_N^*)/(L_W^*-L_N^*)$$

$$a_a^*=a^*-a_N^*-l^*[a_W^*-a_N^*]$$

$$b_a^*=b^*-b_N^*-l^*[b_W^*-b_N^*]$$

$$C_{ab,a}^*=[a_a^{*2}+b_a^{*2}]^{1/2}$$

$$a_a^*=C_{ab,a}^*\cos h_{ab}$$

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