Linear relation CIELAB (*L**,*a**,*b**) and *adapted (a)* CIELAB (*C**_{ab,a}, *L**)
System: LE16_sRGB display 0%_Fadin
Hue: *h**_{Y00L}=96/360; *h**_{V00Nf}=305/360

$l^*_{lab} = (L^* - L^*_N) / (L^*_W - L^*_N)$
$a^*_a = a^* - a^*_N - l^*_{lab} \cdot [a^*_W - a^*_N]$
$b^*_a = b^* - b^*_N - l^*_{lab} \cdot [b^*_W - b^*_N]$
$C^*_{ab,a} = [a^{*2}_a + b^{*2}_a]^{1/2}$

lightness L^*

100

$Y00L$

$(C^*_{ab,a,M},$
$L^*_M)$

50

chroma $C^*_{ab,a}$

-100   -50   0   50   100
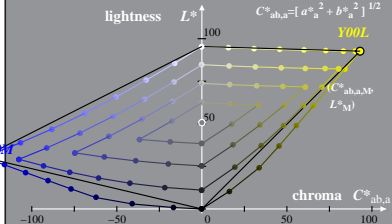
LE160−2A, 0%_Fadin 0

Linear relation CIELAB (*L**,*a**,*b**) and *adapted (a)* CIELAB (*C**ₐb,ₐ, *L**)
System: LE16_sRGB display 0%_Faeit
Hue: h*_J00G=92/360; h*_B00R=272/360

$$l^*_{lab} = (L^* - L^*_N) / (L^*_W - L^*_N)$$
$$a^*_a = a^* - a^*_N - l^*_{lab}[a^*_W - a^*_N]$$
$$b^*_a = b^* - b^*_N - l^*_{lab}[b^*_W - b^*_N]$$
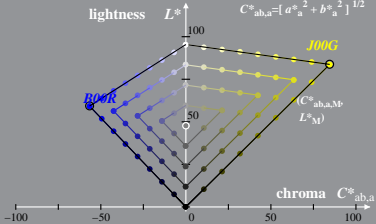$$C^*_{ab,a} = [a^*_a{}^2 + b^*_a{}^2]^{1/2}$$

lightness   *L**

J00G

B00R

100

50

chroma   *C**ₐb,ₐ

(*C**ₐb,ₐ,M,
*L**M)

-100   -50   0   50   100

LE160-2A, 0%_Faeit 1