see similar files: http://130.149.60.45/~farbmetrik/SE27/SE27.HTM
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20130201-SE27/SE27L0NP.PDF /.PS
application for measurement of display output

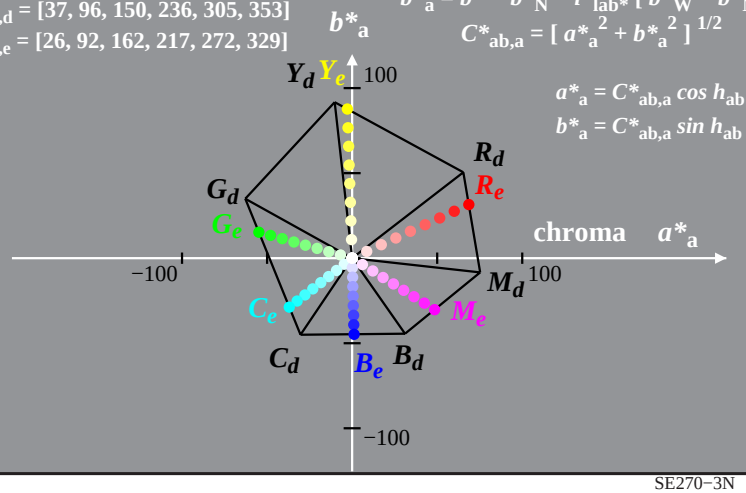
TUB material: code=rha4ta

Linear relation CIELAB (L^*, a^*, b^*) and *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: ORS18a

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

CIELAB hue angles:
$h_{ab,d}$ = [37, 96, 150, 236, 305, 353]
$h_{ab,e}$ = [26, 92, 162, 217, 272, 329]

$a^*_a = C^*_{ab,a} \cos h_{ab}$
$b^*_a = C^*_{ab,a} \sin h_{ab}$



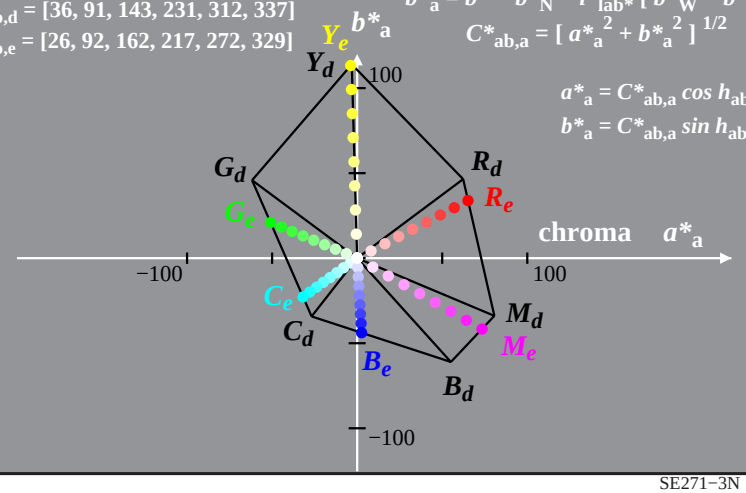
SE270−3N

Linear relation CIELAB (L^*, a^*, b^*) and *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: FRS06a

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

CIELAB hue angles:
$h_{ab,d}$ = [36, 91, 143, 231, 312, 337]
$h_{ab,e}$ = [26, 92, 162, 217, 272, 329]

$a^*_a = C^*_{ab,a} \cos h_{ab}$
$b^*_a = C^*_{ab,a} \sin h_{ab}$



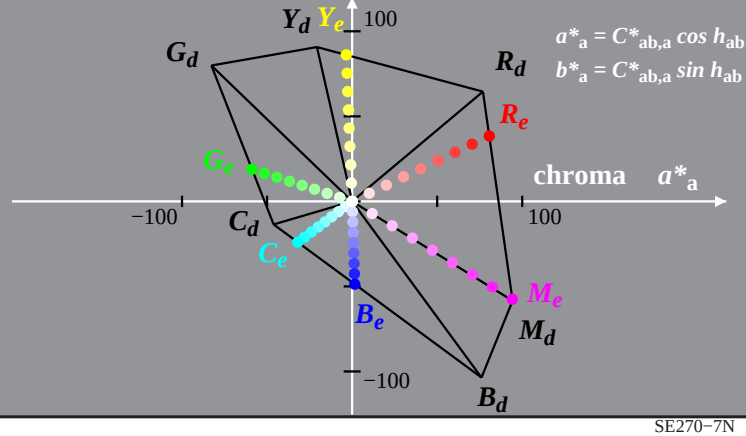
SE271−3N

Linear relation CIELAB (L^*, a^*, b^*) and *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: TLS00a

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

CIELAB hue angles:
$h_{ab,d}$ = [40, 102, 136, 196, 306, 328]
$h_{ab,e}$ = [26, 92, 162, 217, 272, 329]

$a^*_a = C^*_{ab,a} \cos h_{ab}$
$b^*_a = C^*_{ab,a} \sin h_{ab}$



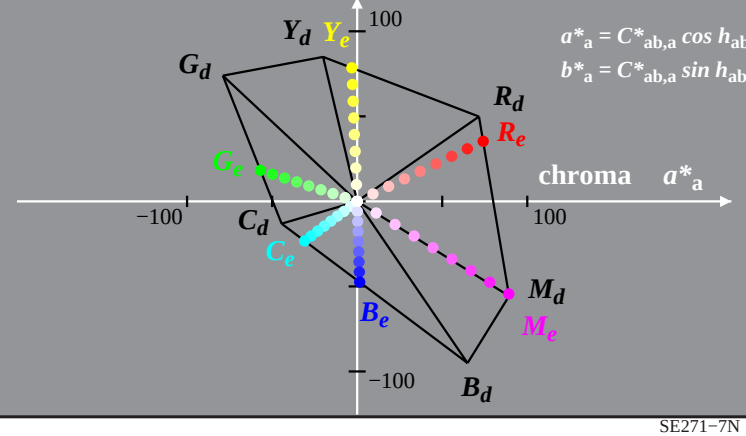
SE270−7N

Linear relation CIELAB (L^*, a^*, b^*) and *adapted (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: TSL18a

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

CIELAB hue angles:
$h_{ab,d}$ = [34, 103, 136, 196, 304, 328]
$h_{ab,e}$ = [26, 92, 162, 217, 272, 329]

$a^*_a = C^*_{ab,a} \cos h_{ab}$
$b^*_a = C^*_{ab,a} \sin h_{ab}$



SE271−7N

TUB-test chart SE27; 4 device systems and CIE elementary hue data in CIELAB chroma diagram *(a*, b*)*

input: *w/rgb/cmyk −> w/rgb/cmyk–*
output: no change