

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

System: HE82\_HRS16\_96\_D65\_00%\_O0

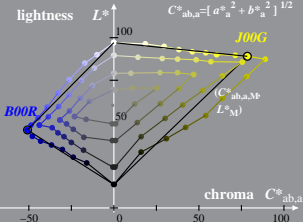
Hue:  $h^*_{J00G}=92/360$ ;  $h^*_{B00R}=272/360$

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_{\tilde{a}} = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_{\tilde{a}} = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^*_{\tilde{a}}{}^2 + b^*_{\tilde{a}}{}^2]^{1/2}$$



HE820-2A, 1; cfl=0.90; nt=0.18; nx=1.0

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

System: HE82\_HRS16\_96\_D65\_00%\_O1

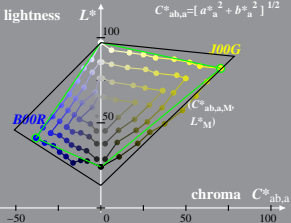
Hue:  $h^*_{J00G}=92/360$ ;  $h^*_{B00R}=272/360$

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_{\tilde{a}} = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_{\tilde{a}} = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^*_{\tilde{a}}{}^2 + b^*_{\tilde{a}}{}^2]^{1/2}$$



HE820-2A, 2; cf1=0.90; nt=0.18; nx=1.0

Linear relation CIELAB ( $L^*$ ,  $a^*$ ,  $b^*$ ) and adapted (a) CIELAB ( $C^*_{ab,a}$ ,  $L^*_M$ )  
 System: HE82\_HRS16\_96\_D65\_25%\_O0

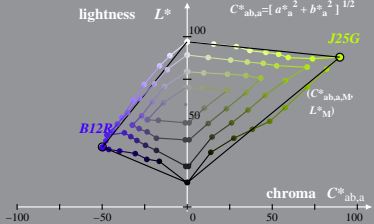
Hue:  $h^*_{J25G}=109/360$ ;  $h^*_{B12R}=286/360$

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_a = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_a = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_a + b^{*2}_a]^{1/2}$$



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

System: HE82\_HRS16\_96\_D65\_25%\_O1

Hue:  $h^*_{J25G}=109/360$ ;  $h^*_{B12R}=286/360$

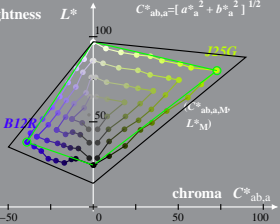
$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_a = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_a = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_a + b^{*2}_a]^{1/2}$$

lightness  $L^*$



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

System: HE82\_HRS16\_96\_D65\_50%\_O0

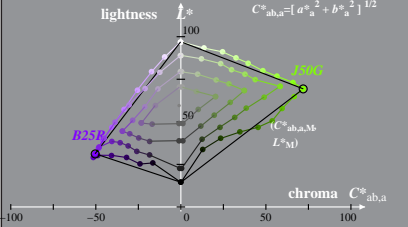
Hue:  $h^*_{J50G}=127/360$ ;  $h^*_{B25R}=300/360$

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_a = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_a = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_a + b^{*2}_a]^{1/2}$$



HE820-2A, 5; cf1=0.90; nt=0.18; nx=1.0

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

System: HE82\_HRS16\_96\_D65\_50%\_O1

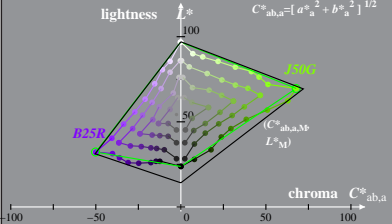
Hue:  $h^*_{J50G}=127/360$ ;  $h^*_{B25R}=300/360$

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_a = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_a = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_a + b^{*2}_a]^{1/2}$$



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

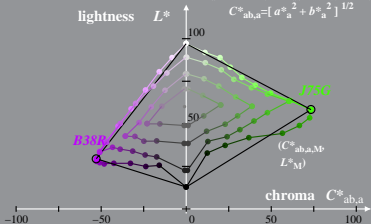
System: HE82\_HRS16\_96\_D65\_75%\_O0  $l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$

Hue:  $h^*_{J75G} = 144/360$ ;  $h^*_{B38R} = 314/360$

$$a^*_a = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_a = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_a + b^{*2}_a]^{1/2}$$



HE820-2A, 7; cf1=0.90; nt=0.18; nx=1.0

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

System: HE82\_HRS16\_96\_D65\_75%\_O1

Hue:  $h^*_{J75G}=144/360$ ;  $h^*_{B38R}=314/360$

$$l^*_{lab^*} = (L^* - L^*_N) / (L^*_W - L^*_N)$$

$$a^*_a = a^* - a^*_N - l^*_{lab^*} [a^*_W - a^*_N]$$

$$b^*_a = b^* - b^*_N - l^*_{lab^*} [b^*_W - b^*_N]$$

$$C^*_{ab,a} = [a^{*2}_a + b^{*2}_a]^{1/2}$$

