

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

System: GE80_HRS16_96_D65_00%_00

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab} = l^*_{lab} - c^*_{lab} [l^*_M - 0,5]$$

CIELAB hue angles:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$b^*_{lab}$$

$$c^*_{lab} = C^*_{ab,a} / C^*_{ab,a,M}$$

M =Maximum colour

$$h_{ab,dx} = [38, 96, 151, 236, 305, 350]$$

Y00L

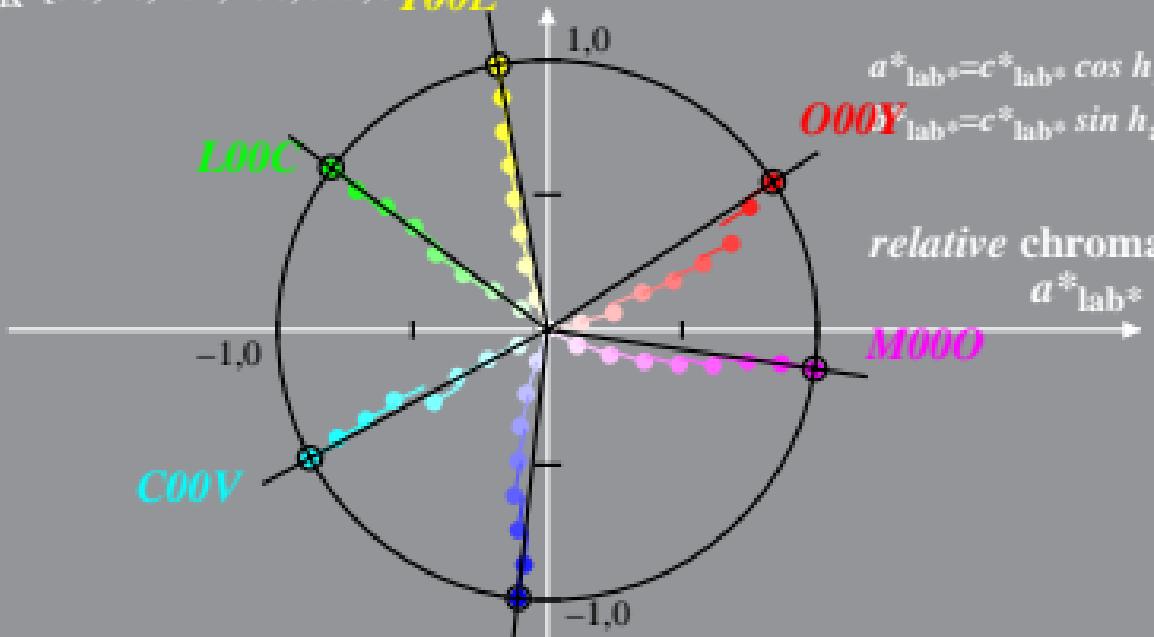
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

$$000Y_{lab} = c^*_{lab} \sin h_{ab}$$

relative chroma

$$a^*_{lab}$$

M000



GE801-4A, 1; cf1=0.90; nt=0.18; nx=1.0

V00M

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

System: GE80_HRS16_96_D65_00%_01

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab} = l^*_{lab} - c^*_{lab} [l^*_M - 0,5]$$

CIELAB hue angles:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$h_{ab,dx} = [38, 96, 151, 236, 305, 354]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

M =Maximum colour

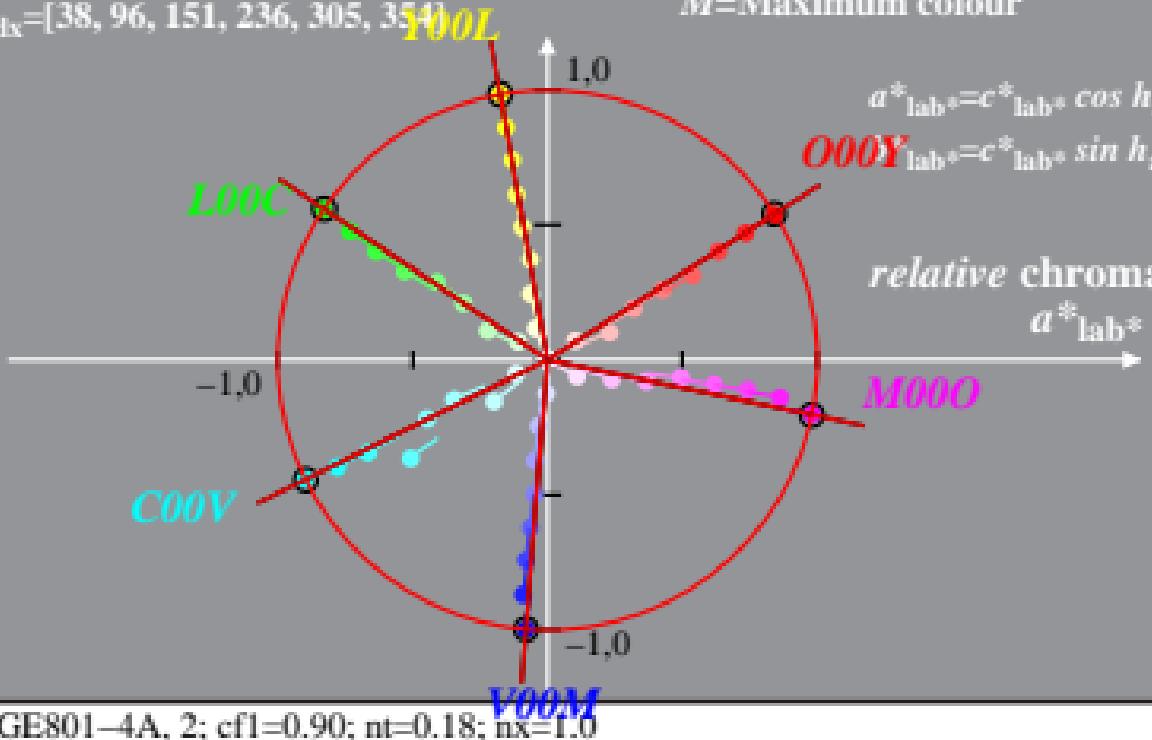
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

$$Y_{lab} = c^*_{lab} \sin h_{ab}$$

relative chroma

$$a^*_{lab}$$

$M000$



GE801-4A, 2; cf1=0.90; nt=0.18; nx=1.0

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

System: GE80_HRS16_96_D65_25%_00

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab} = l^*_{lab} - c^*_{lab} [l^*_M - 0,5]$$

CIELAB hue angles:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

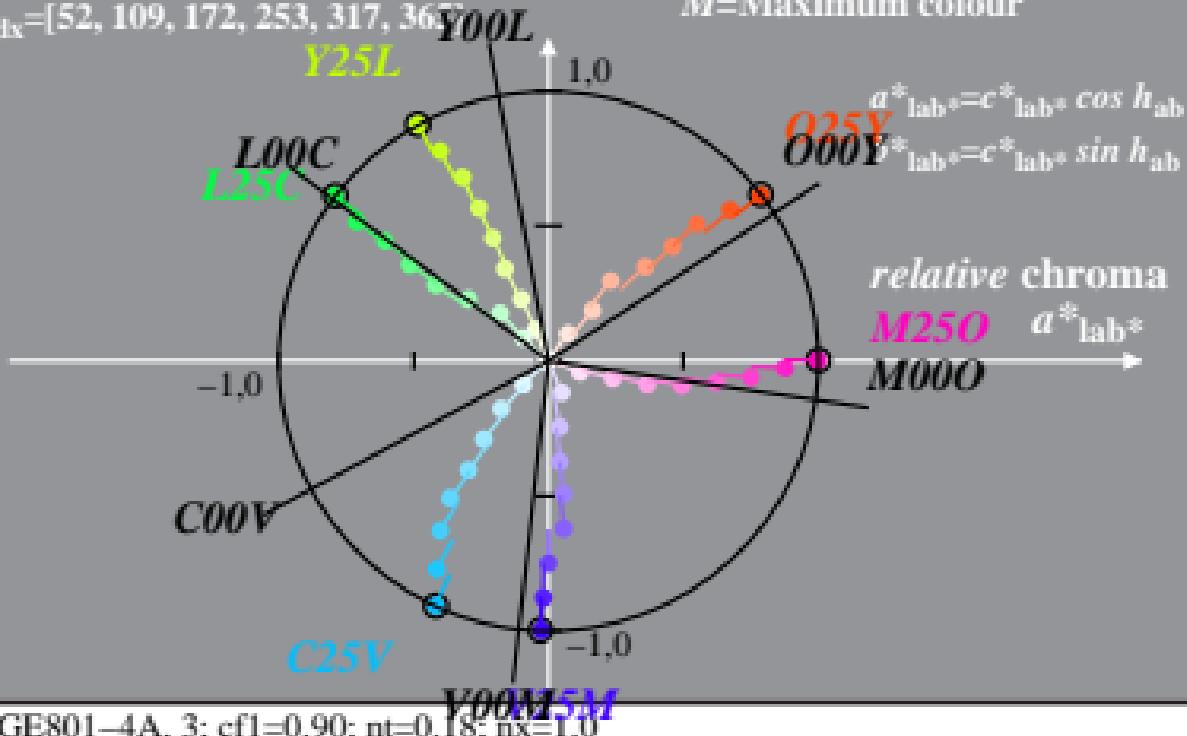
$$h_{ab,dx} = [52, 109, 172, 253, 317, 367]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

$$C^*_{ab,a} / C^*_{ab,a,M}$$

M =Maximum colour



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

System: GE80_HRS16_96_D65_25%_O1

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab} = l^*_{lab} - c^*_{lab} [l^*_M - 0,5]$$

CIELAB hue angles:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$h_{ab,dx} = [52, 109, 172, 253, 317, 365]$$

$$b^*_{lab}$$

$$c^*_{lab} = C^*_{ab,a} / C^*_{ab,a,M}$$

M =Maximum colour

$Y00L$

$Y25L$

1,0

-1,0

-1,0

$L00C$

$L25C$

$C00V$

$C25V$

$O25Y$

$O00Y$

relative chroma
 $M25O$

$$a^*_{lab}$$

$M00O$

$V00M$ $V25M$

GE801-4A, 4; cf1=0.90; nt=0.18; nx=1.0

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

System: GE80_HRS16_96_D65_50%_00

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab} = l^*_{lab} - c^*_{lab} [l^*_M - 0,5]$$

CIELAB hue angles:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$h_{ab,dx} = [67, 123, 193, 270, 329, 377]$$

$$b^*_{lab}$$

$$c^*_{lab}$$

$$C^*_{ab,a} / C^*_{ab,a,M}$$

M =Maximum colour

$O50Y$

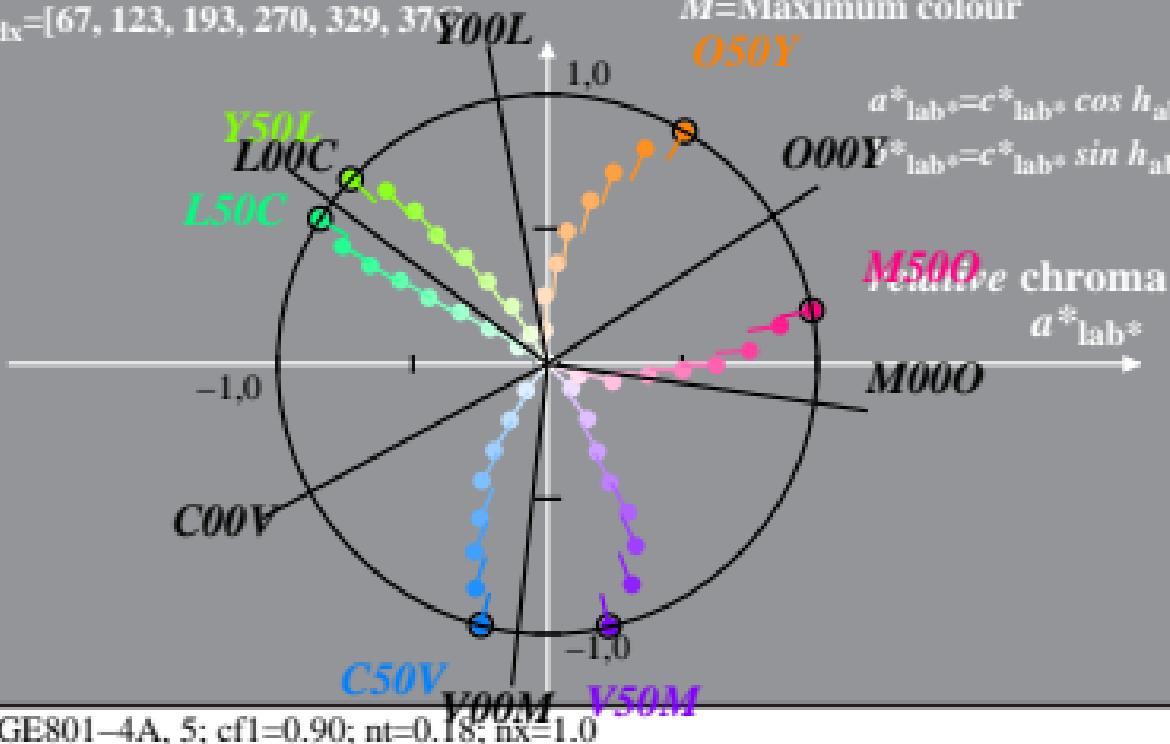
$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

$$Y^*_{lab} = c^*_{lab} \sin h_{ab}$$

$M500$ hue chroma

$$a^*_{lab}$$

$M000$



GE801-4A, 5; cf1=0.90; nt=0.18; nx=1.0

Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE80_HRS16_96_D65_50%_O1 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$h_{ab,dx} = [67, 123, 193, 270, 329, 370]$$

$$b^*_{lab^*}$$

$$t^*_{lab^*} = I^*_{lab^*} - c^*_{lab^*} [I^*_M - 0,5]$$

$$c^*_{lab^*} = C^*_{ab,a} / C^*_{ab,a,M}$$

M =Maximum colour

O50Y

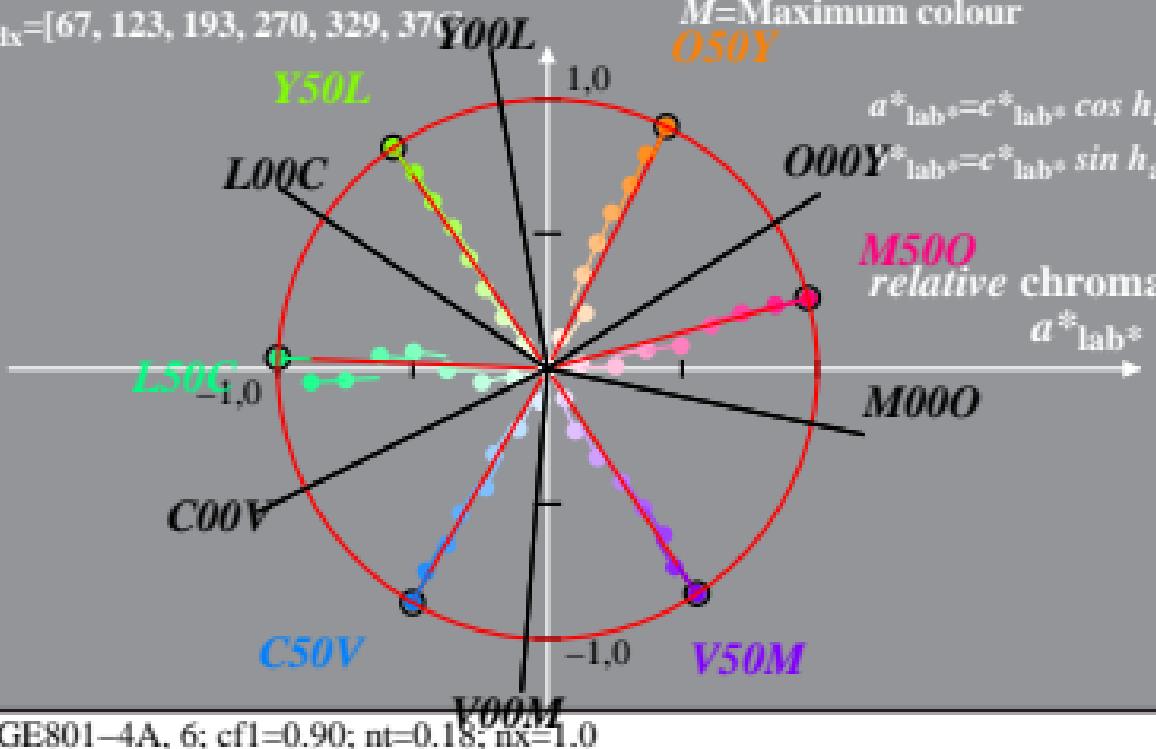
$$a^*_{lab^*} = c^*_{lab^*} \cos h_{ab}$$

$$000Y^*_{lab^*} = c^*_{lab^*} \sin h_{ab}$$

M50O
relative chroma

$$a^*_{lab^*}$$

M000



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

System: GE80_HRS16_96_D65_75%_00

$$l^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$$

$$t^*_{lab} = l^*_{lab} - c^*_{lab} [l^*_M - 0,5]$$

CIELAB hue angles:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$h_{ab,dx} = [81, 137, 214, 287, 341, 387]$$

$$b^*_{lab}$$

$$c^*_{lab} = C^*_{ab,a} / C^*_{ab,a,M}$$

$Y00L$

$O75Y$

M =Maximum colour

$$a^*_{lab} = c^*_{lab} \cos h_{ab}$$

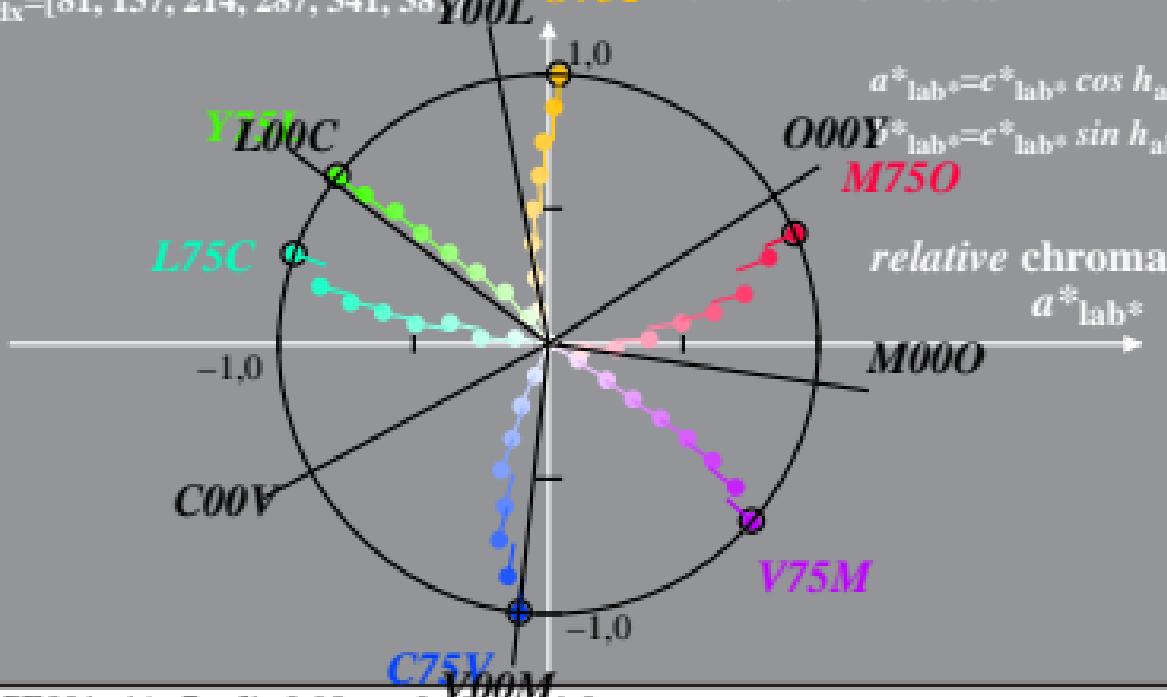
$$O00Y^*_{lab} = c^*_{lab} \sin h_{ab}$$

$M75O$

relative chroma

$$a^*_{lab}$$

$M000$



Linear relation adapted (a) CIELAB ($C^*_{ab,a}$, L^*) and relative CIELAB (c^* , t^*)
 System: GE80_HRS16_96_D65_75%_01 $I^*_M = (L^*_M - L^*_N) / (L^*_W - L^*_N)$

CIELAB hue angles:

$$h_{ab,d} = [32, 100, 145, 206, 265, 348]$$

$$h_{ab,dx} = [81, 137, 214, 287, 341, 387]$$

$$t^*_{lab*} = I^*_{lab*} - c^*_{lab*} [I^*_M - 0,5]$$

$$b^*_{lab*} \quad c^*_{lab*} = C^*_{ab,a} / C^*_{ab,a,M}$$

$O75Y$ M=Maximum colour

