

Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C^*_{ab,a}$, L^*)
Television Luminous System: TLS27a

CIELAB hue angles RYGBCM:

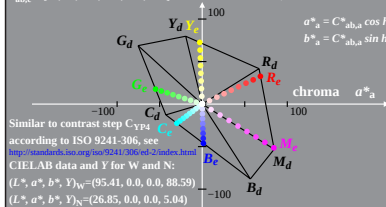
$h_{ab,d} = [31, 103, 137, 196, 302, 327]$
 $h_{ab,e} = [26, 92, 162, 217, 272, 329]$

b^*_a

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

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

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



AEY50-3N

Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C^*_{ab,a}$, L^*)
Television Luminous System: TLS38a

CIELAB hue angles RYGBCM:

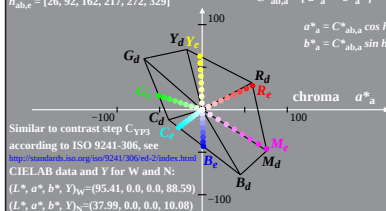
$h_{ab,d} = [28, 104, 138, 196, 300, 327]$
 $h_{ab,e} = [26, 92, 162, 217, 272, 329]$

b^*_a

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

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

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



AEY50-7N

Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C^*_{ab,a}$, L^*)
Television Luminous System: TLS52a

CIELAB hue angles RYGBCM:

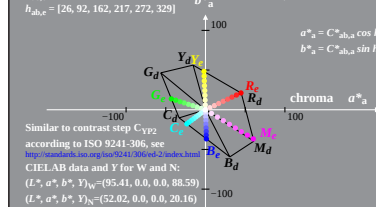
$h_{ab,d} = [24, 105, 140, 197, 297, 327]$
 $h_{ab,e} = [26, 92, 162, 217, 272, 329]$

b^*_a

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

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

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



AEY51-3N

Linear relation CIELAB (L^* , a^* , b^*) and adapted (a) CIELAB ($C^*_{ab,a}$, L^*)
Television Luminous System: TLS70a

CIELAB hue angles RYGBCM:

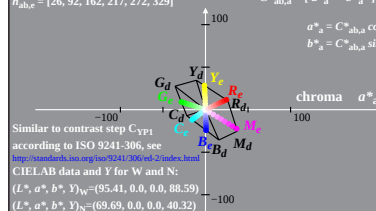
$h_{ab,d} = [21, 107, 142, 197, 293, 326]$
 $h_{ab,e} = [26, 92, 162, 217, 272, 329]$

b^*_a

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

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

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



AEY51-7N

TUB-test chart AEY5; TLS27a, TLS38a, TLS52a, TLS70a
and CIE elementary hue data in CIELAB diagram (a^* , b^*)

input: w/rgb/cmyk -> rgb
output: no change