### *Ostw* data *rgb**, *XYZxy*, and *LabC*h*$_{ab}$ in the CIELAB-colour space

Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6

| | *rgb** | CIEXYZ data $X_d$ | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | *LabC*h*$_{ab}$ data $L^*_d$ | $a^*_d$ | $b^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| $R_d$ | 1 0 0 | 55,28 | 36,99 | 0,67 | 0,594 | 0,397 | 67,26 | 58,45 | 106,35 | 121,35 | **61** |
| $Y_d$ | 1 1 0 | 67,93 | 72,65 | 1,12 | 0,479 | 0,512 | 88,28 | −2,43 | 136,23 | 136,25 | **91** |
| $G_d$ | 0 1 0 | 21,11 | 57,87 | 13,29 | 0,228 | 0,627 | 80,66 | −113,86 | 67,46 | 132,34 | **149** |
| $C_d$ | 0 1 1 | 28,91 | 51,60 | 95,79 | 0,163 | 0,292 | 77,04 | −64,78 | −31,21 | 71,91 | **205** |
| $B_d$ | 0 0 1 | 16,26 | 15,93 | 95,34 | 0,127 | 0,124 | 46,89 | 6,50 | −82,89 | 83,14 | **274** |
| $M_d$ | 1 0 1 | 63,08 | 30,71 | 83,17 | 0,356 | 0,173 | 62,26 | 98,77 | −47,87 | 109,76 | **334** |
| $N_d$ | 0 0 0 | 0,00 | 0,00 | 0,00 | 0,333 | 0,333 | 0,08 | 0,01 | 0,01 | 0,02 | **0** |
| $W_d$ | 1 1 1 | 84,21 | 88,60 | 96,48 | 0,312 | 0,329 | 95,41 | 0,00 | 0,00 | 0,00 | **0** |
| $N1_d$ | **0,00** | 0,00 | 0,00 | 0,00 | 0,333 | 0,333 | 0,08 | 0,01 | 0,01 | 0,02 | **0** |
| $W1_d$ | **1,13** | 95,05 | 100,01 | 108,30 | 0,313 | 0,329 | 100,00 | −0,00 | 0,37 | 0,37 | **90** |
| $Z1_d$ | **0,18** | 17,10 | 17,99 | 19,49 | 0,313 | 0,329 | 49,48 | 0,02 | 0,20 | 0,20 | **82** |

AEK20−1N

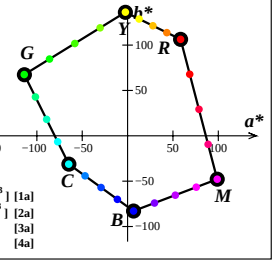
### *Ostw* data *rgb**, *XYZxy*, and *LabC*h*$_{ab}$ in the CIELAB-colour space

Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6

*LabC*h*$_{ab}$ data

| | *rgb** | $L^*_d$ | $a^*_d$ | $b^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ |
|---|---|---|---|---|---|---|
| $R_d$ | 1 0 0 | 67 | 58 | 106 | 121 | **61** |
| $Y_d$ | 1 1 0 | 88 | −2 | 136 | 136 | **91** |
| $G_d$ | 0 1 0 | 80 | −113 | 67 | 132 | **149** |
| $C_d$ | 0 1 1 | 77 | −64 | −31 | 71 | **205** |
| $B_d$ | 0 0 1 | 46 | 6 | −82 | 83 | **274** |
| $M_d$ | 1 0 1 | 62 | 98 | −47 | 109 | **334** |
| $N_d$ | 0 0 0 | 0 | 0 | 0 | 0 | **0** |
| $W_d$ | 1 1 1 | 95 | 0 | 0 | 0 | **0** |

$a^* = 500\,[(X / X_{D65})^{1/3} - (Y / Y_{D65})^{1/3}]$ [1a]
$b^* = 200\,[(Y / Y_{D65})^{1/3} - (Z / Z_{D65})^{1/3}]$ [2a]
$C^*_{ab} = [\,a^{*2} + b^{*2}\,]^{0,5}$ [3a]
$h_{ab} = \mathrm{atan}\,[\,b^* / a^*\,]$ [4a]




AEK20−2N

### *Ostw* data *rgb**, *XYZxy*, and *LabC*h*$_{ab}$ in the CIELAB-colour space

Tristimulus values of black and white: $Y_{Nn}$=40,3, $Y_{Wn}$=88,6, $Y_{Wa}$=88,6.

| | *rgb** | CIEXYZ data $X_d$ | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | *LabC*h*$_{ab}$ data $L^*_d$ | $a^*_d$ | $b^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| $R_d$ | 1 0 0 | 68,44 | 60,47 | 44,26 | 0,594 | 0,397 | 82,09 | 25,33 | 20,97 | 32,89 | **39** |
| $Y_d$ | 1 1 0 | 75,34 | 79,90 | 44,51 | 0,479 | 0,512 | 91,64 | −1,24 | 37,16 | 37,18 | **91** |
| $G_d$ | 0 1 0 | 49,82 | 71,85 | 51,14 | 0,228 | 0,627 | 87,89 | −44,68 | 23,67 | 50,57 | **152** |
| $C_d$ | 0 1 1 | 54,07 | 68,43 | 96,10 | 0,163 | 0,292 | 86,22 | −26,32 | −15,59 | 30,59 | **210** |
| $B_d$ | 0 0 1 | 47,18 | 49,00 | 95,86 | 0,127 | 0,124 | 75,45 | 1,69 | −33,99 | 34,03 | **272** |
| $M_d$ | 1 0 1 | 72,69 | 57,05 | 89,23 | 0,356 | 0,173 | 80,21 | 42,54 | −21,26 | 47,56 | **333** |
| $N_d$ | 0 0 0 | 38,32 | 40,32 | 43,90 | 0,333 | 0,333 | 69,70 | −0,01 | 0,01 | 0,01 | **0** |
| $W_d$ | 1 1 1 | 84,21 | 88,60 | 96,48 | 0,312 | 0,329 | 95,41 | 0,00 | 0,00 | 0,00 | **0** |
| $N1_d$ | **0,00** | 38,32 | 40,32 | 43,90 | 0,333 | 0,333 | 69,70 | −0,01 | 0,01 | 0,01 | **0** |
| $W1_d$ | **1,13** | 90,12 | 94,81 | 102,92 | 0,313 | 0,329 | 97,96 | −0,00 | 0,20 | 0,20 | **90** |
| $Z1_d$ | **0,18** | 47,64 | 50,12 | 54,52 | 0,313 | 0,329 | 76,14 | −0,00 | 0,06 | 0,06 | **91** |

AEK21−1N

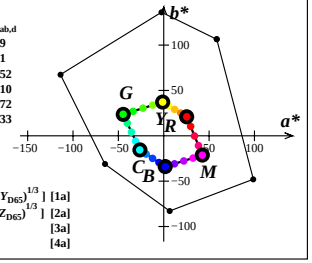
### *Ostw* data *rgb**, *XYZxy*, and *LabC*h*$_{ab}$ in the CIELAB-colour space

Tristimulus values of black and white: $Y_{Nn}$=40,3, $Y_{Wn}$=88,6, $Y_{Wa}$=88,6.

*LabC*h*$_{ab}$ data

| | *rgb** | $L^*_d$ | $a^*_d$ | $b^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ |
|---|---|---|---|---|---|---|
| $R_d$ | 1 0 0 | 82 | 25 | 20 | 32 | **39** |
| $Y_d$ | 1 1 0 | 91 | −1 | 37 | 37 | **91** |
| $G_d$ | 0 1 0 | 87 | −44 | 23 | 50 | **152** |
| $C_d$ | 0 1 1 | 86 | −26 | −15 | 30 | **210** |
| $B_d$ | 0 0 1 | 75 | 1 | −33 | 34 | **272** |
| $M_d$ | 1 0 1 | 80 | 42 | −21 | 47 | **333** |
| $N_d$ | 0 0 0 | 69 | 0 | 0 | 0 | **0** |
| $W_d$ | 1 1 1 | 95 | 0 | 0 | 0 | **0** |

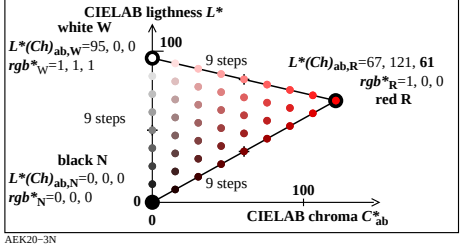
$a^* = 500\,[(X / X_{D65})^{1/3} - (Y / Y_{D65})^{1/3}]$ [1a]
$b^* = 200\,[(Y / Y_{D65})^{1/3} - (Z / Z_{D65})^{1/3}]$ [2a]
$C^*_{ab} = [\,a^{*2} + b^{*2}\,]^{0,5}$ [3a]
$h_{ab} = \mathrm{atan}\,[\,b^* / a^*\,]$ [4a]




AEK21−2N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

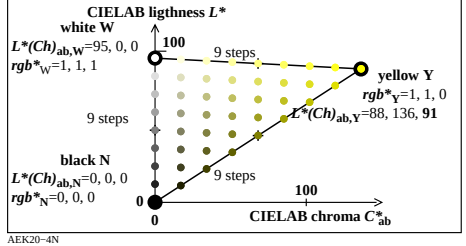
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6




AEK20−3N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

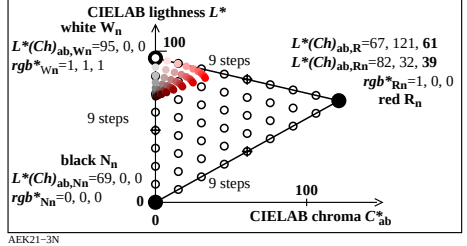
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6




AEK20−4N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

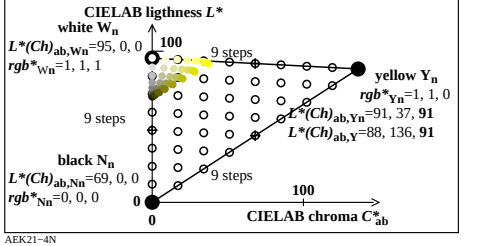
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6
Tristimulus values of black and white: $Y_{Nn}$=40,3, $Y_{Wn}$=88,6, $Y_{Wa}$=88,6.




AEK21−3N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

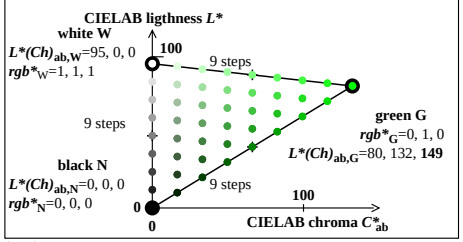
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6
Tristimulus values of black and white: $Y_{Nn}$=40,3, $Y_{Wn}$=88,6, $Y_{Wa}$=88,6.




AEK21−4N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

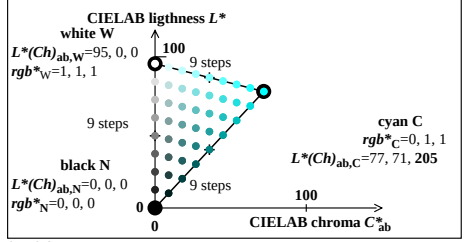
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6




AEK20−5N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

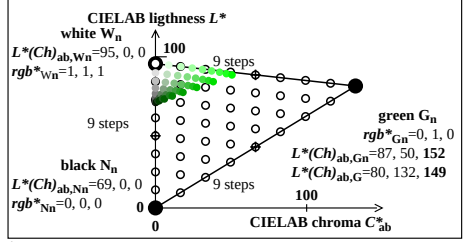
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6




AEK20−6N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

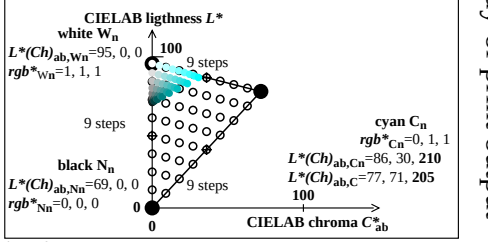
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6
Tristimulus values of black and white: $Y_{Nn}$=40,3, $Y_{Wn}$=88,6, $Y_{Wa}$=88,6.




AEK21−5N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

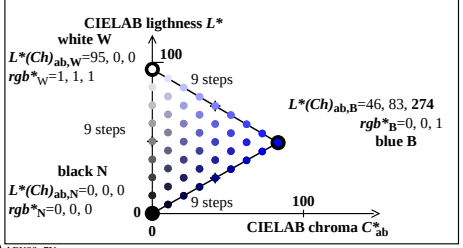
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6
Tristimulus values of black and white: $Y_{Nn}$=40,3, $Y_{Wn}$=88,6, $Y_{Wa}$=88,6.




AEK21−6N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

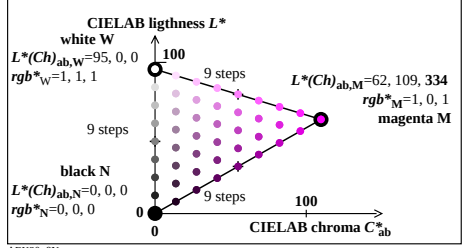
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6




AEK20−7N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

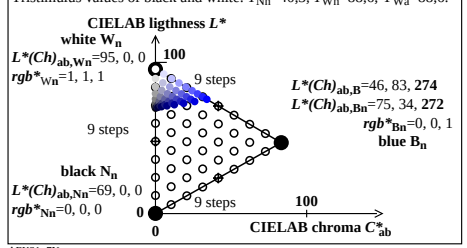
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6




AEK20−8N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

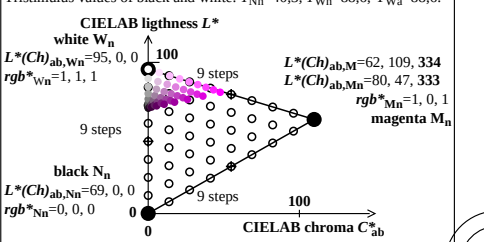
Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6
Tristimulus values of black and white: $Y_{Nn}$=40,3, $Y_{Wn}$=88,6, $Y_{Wa}$=88,6.




AEK21−7N

### *Ostw* colours (9 steps) with *L*(Ch)*$_{ab}$ in the CIELAB-colour space

Tristimulus values of black and white: $Y_N$=0,0, $Y_W$=88,6
Tristimulus values of black and white: $Y_{Nn}$=40,3, $Y_{Wn}$=88,6, $Y_{Wa}$=88,6.




AEK21−8N

TUB-test chart AEK2; Affine colour metric for six device hues — input: *rgb/cmy0 (No 1MR)*
*Ostw* data *rgb**, *XYZ*, *and L*(Ch)*$_{ab}$, reflection $Y_N$=0 & $Y_{Nn}$=40,32, $Y_W$=88,6, adaptation $Y_{Wa}$=88,6.