

#### Offs data $rgb^*$ , XYZxy, and $L^*ABCh_{AB}$ in $L^*ABJND$ -colour space

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

|          | $rgb^*$ | CIE XYZ data |        |        |       |       | $L^*ABCh_{AB}$ data |        |        |            |            |  |
|----------|---------|--------------|--------|--------|-------|-------|---------------------|--------|--------|------------|------------|--|
|          |         | $X_d$        | $Y_d$  | $Z_d$  | $x_d$ | $y_d$ | $L_d^*$             | $A_d$  | $B_d$  | $C_{AB,d}$ | $h_{AB,d}$ |  |
| $R_d$    | 1.00    | 29,01        | 16,24  | 4,26   | 0,585 | 0,328 | 47,28               | 35,70  | 12,32  | 37,77      | 19         |  |
| $Y_d$    | 1.10    | 63,74        | 72,69  | 8,27   | 0,440 | 0,502 | 88,29               | -14,07 | 65,09  | 66,60      | 102        |  |
| $G_d$    | 0.10    | 8,53         | 20,04  | 9,58   | 0,223 | 0,525 | 51,89               | -27,68 | 11,25  | 29,88      | 157        |  |
| $C_d$    | 0.11    | 18,74        | 26,27  | 69,01  | 0,164 | 0,230 | 58,29               | -16,38 | -37,10 | 40,56      | 246        |  |
| $B_d$    | 0.01    | 6,22         | 4,51   | 22,65  | 0,186 | 0,135 | 25,29               | 5,08   | -16,28 | 17,06      | 287        |  |
| $M_d$    | 1.01    | 32,46        | 16,95  | 23,04  | 0,448 | 0,233 | 48,19               | 43,00  | -4,20  | 43,20      | 354        |  |
| $N_d$    | 0.00    | 0,01         | 0,01   | 0,01   | 0,333 | 0,333 | 0,09                | 0,00   | 0,00   | 0,00       | 0          |  |
| $W_d$    | 1.11    | 84,21        | 88,60  | 96,48  | 0,312 | 0,329 | 95,41               | -0,01  | 0,00   | 0,01       | 0          |  |
| $N_{1d}$ | 0.00    | 0,01         | 0,01   | 0,01   | 0,333 | 0,333 | 0,09                | 0,00   | 0,00   | 0,00       | 0          |  |
| $W_{1d}$ | 1.13    | 95,05        | 100,00 | 108,90 | 0,312 | 0,329 | 100,00              | 0,00   | 0,00   | 0,00       | 0          |  |
| $Z_{1d}$ | 0.18    | 17,11        | 18,00  | 19,60  | 0,312 | 0,329 | 49,49               | 0,00   | 0,00   | 0,00       | 0          |  |

AEN10-1N

#### Offs data $rgb^*$ , XYZxy, and $L^*ABCh_{AB}$ in $L^*ABJND$ -colour space

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

|       | $rgb^*$ | CIE XYZ data |       |       |       |       | $L^*ABCh_{AB}$ data |       |       |            |            |  |
|-------|---------|--------------|-------|-------|-------|-------|---------------------|-------|-------|------------|------------|--|
|       |         | $X_d$        | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $L_d^*$             | $A_d$ | $B_d$ | $C_{AB,d}$ | $h_{AB,d}$ |  |
| $R_d$ | 1.00    | 47,35        | 12,37 | 19    |       |       |                     |       |       |            |            |  |
| $Y_d$ | 1.10    | 88           | -14   | 65    | 66    | 102   |                     |       |       |            |            |  |
| $G_d$ | 0.10    | 51           | -27   | 11    | 29    | 157   |                     |       |       |            |            |  |
| $C_d$ | 0.11    | 58           | -16   | -37   | 40    | 246   |                     |       |       |            |            |  |
| $B_d$ | 0.01    | 25           | -16   | 17    | 287   |       |                     |       |       |            |            |  |
| $M_d$ | 1.01    | 48           | -4    | 43    | 354   |       |                     |       |       |            |            |  |
| $N_d$ | 0.00    | 0            | 0     | 0     | 0     | 0     |                     |       |       |            |            |  |
| $W_d$ | 1.11    | 95           | 0     | 0     | 0     | 0     |                     |       |       |            |            |  |

$A = 250 [X / X_{D65} - Y / Y_{D65}]$  [1b]  
 $B = 100 [Y / Y_{D65} - Z / Z_{D65}]$  [2b]  
 $C_{AB} = [A^2 + B^2]^{0.5}$  [3b]  
 $h_{AB} = \arctan [B / A]$  [4b]

AEN10-2N

#### Offs data $rgb^*$ , XYZxy, and $L^*ABCh_{AB}$ in $L^*ABJND$ -colour space

Tristimulus values of black and white:  $Y_{N0}=2,2$ ,  $Y_{W0}=79,9$ ,  $Y_{Za}=18$ .

|          | $rgb^*$ | CIE XYZ data |       |       |       |       | $L^*ABCh_{AB}$ data |        |        |            |            |  |
|----------|---------|--------------|-------|-------|-------|-------|---------------------|--------|--------|------------|------------|--|
|          |         | $X_d$        | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $L_d^*$             | $A_d$  | $B_d$  | $C_{AB,d}$ | $h_{AB,d}$ |  |
| $R_d$    | 1.00    | 27,54        | 16,45 | 6,14  | 0,585 | 0,328 | 47,56               | 31,31  | 10,81  | 33,12      | 19         |  |
| $Y_d$    | 1.10    | 58,00        | 65,97 | 9,65  | 0,440 | 0,502 | 84,98               | -12,37 | 57,10  | 58,42      | 102        |  |
| $G_d$    | 0.10    | 9,58         | 19,79 | 10,80 | 0,223 | 0,525 | 51,60               | -24,28 | 9,87   | 26,21      | 157        |  |
| $C_d$    | 0.11    | 18,53        | 25,25 | 62,95 | 0,164 | 0,230 | 57,32               | -14,37 | -32,55 | 35,59      | 246        |  |
| $B_d$    | 0.01    | 7,55         | 6,16  | 22,27 | 0,186 | 0,135 | 29,82               | 4,46   | -14,28 | 14,97      | 287        |  |
| $M_d$    | 1.01    | 30,57        | 17,07 | 22,61 | 0,448 | 0,233 | 48,35               | 37,71  | -3,69  | 37,89      | 354        |  |
| $N_d$    | 0.00    | 2,11         | 2,21  | 2,41  | 0,333 | 0,333 | 16,59               | 0,01   | 0,00   | 0,01       | 0          |  |
| $W_d$    | 1.11    | 75,95        | 79,92 | 87,05 | 0,312 | 0,329 | 91,65               | -0,04  | -0,00  | 0,04       | 0          |  |
| $N_{1d}$ | 0.00    | 2,11         | 2,21  | 2,41  | 0,333 | 0,333 | 16,59               | 0,01   | 0,00   | 0,01       | 0          |  |
| $W_{1d}$ | 1.13    | 85,46        | 89,92 | 97,94 | 0,312 | 0,329 | 95,96               | -0,04  | -0,01  | 0,04       | 0          |  |
| $Z_{1d}$ | 0.18    | 17,10        | 18,00 | 19,60 | 0,312 | 0,329 | 49,49               | 0,00   | 0,00   | 0,00       | 0          |  |

AEN11-1N

#### Offs data $rgb^*$ , XYZxy, and $L^*ABCh_{AB}$ in $L^*ABJND$ -colour space

Tristimulus values of black and white:  $Y_{N0}=2,2$ ,  $Y_{W0}=79,9$ ,  $Y_{Za}=18$ .

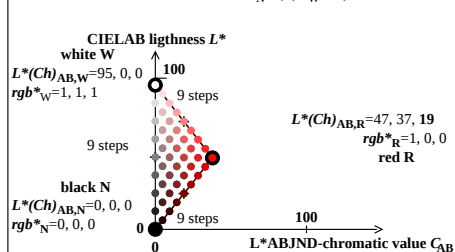
|       | $rgb^*$ | CIE XYZ data |       |       |       |       | $L^*ABCh_{AB}$ data |       |       |            |            |  |
|-------|---------|--------------|-------|-------|-------|-------|---------------------|-------|-------|------------|------------|--|
|       |         | $X_d$        | $Y_d$ | $Z_d$ | $x_d$ | $y_d$ | $L_d^*$             | $A_d$ | $B_d$ | $C_{AB,d}$ | $h_{AB,d}$ |  |
| $R_d$ | 1.00    | 47,31        | 10,33 | 19    |       |       |                     |       |       |            |            |  |
| $Y_d$ | 1.10    | 84           | -12   | 57    | 58    | 102   |                     |       |       |            |            |  |
| $G_d$ | 0.10    | 51           | -24   | 9     | 26    | 157   |                     |       |       |            |            |  |
| $C_d$ | 0.11    | 57           | -14   | -32   | 35    | 246   |                     |       |       |            |            |  |
| $B_d$ | 0.01    | 29           | -4    | -14   | 14    | 287   |                     |       |       |            |            |  |
| $M_d$ | 1.01    | 48           | 37    | -3    | 37    | 354   |                     |       |       |            |            |  |
| $N_d$ | 0.00    | 16           | 0     | 0     | 0     | 0     |                     |       |       |            |            |  |
| $W_d$ | 1.11    | 91           | 0     | 0     | 0     | 0     |                     |       |       |            |            |  |

$A = 250 [X / X_{D65} - Y / Y_{D65}]$  [1b]  
 $B = 100 [Y / Y_{D65} - Z / Z_{D65}]$  [2b]  
 $C_{AB} = [A^2 + B^2]^{0.5}$  [3b]  
 $h_{AB} = \arctan [B / A]$  [4b]

AEN11-2N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

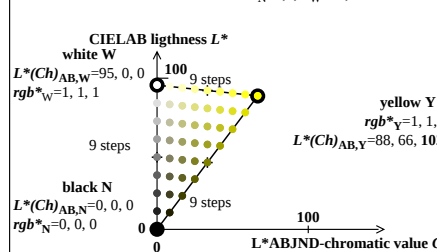
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN10-3N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

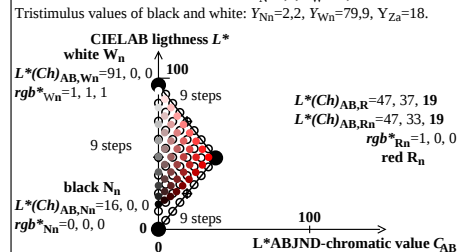
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN10-4N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

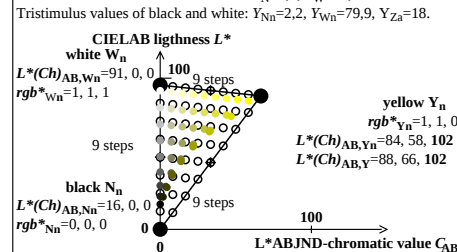
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN11-3N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

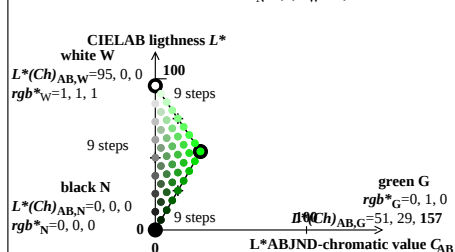
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN11-4N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

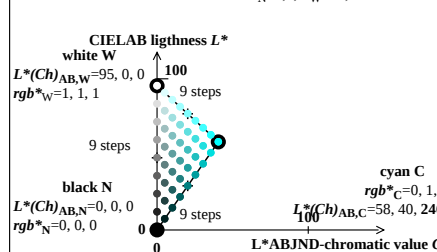
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN10-5N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

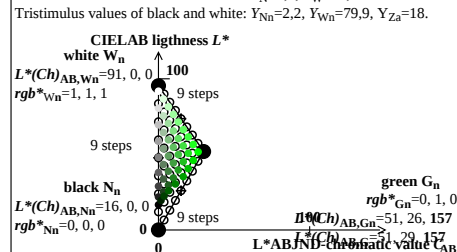
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN10-6N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

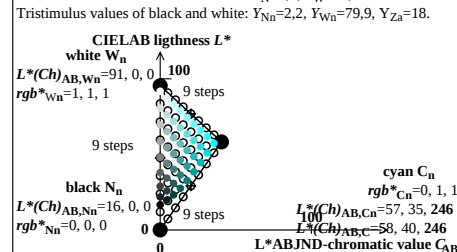
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN11-5N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

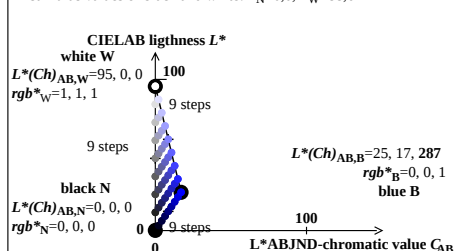
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN11-6N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

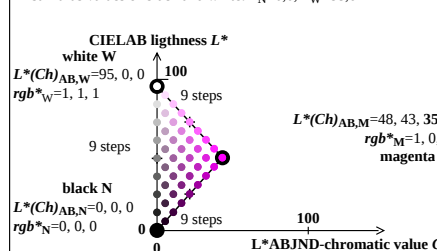
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN10-7N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

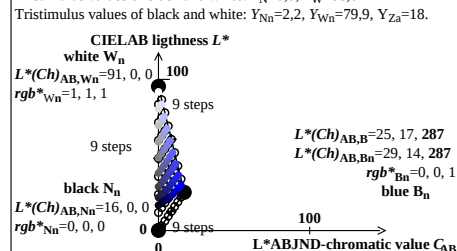
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN10-8N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

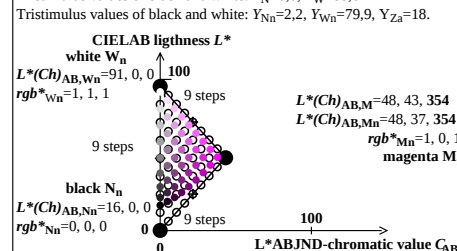
Tristimulus values of black and white:  $Y_N=0,0$ ,  $Y_W=88,6$



AEN11-7N

#### Offs colours (9 steps) with $L^*(Ch)_{AB}$ in $L^*ABJND$ -colour space

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



AEN11-8N