see similar files: http://farbe.li.tu-berlin.de/AEH0/AEH0.HTM
technical information: http://farbe.li.tu-berlin.de or http://130.149.60.45/~farbmetrik

TUB registration: 20201101-AEH0/AEH0L0NP.PDF /.PS
application for evaluation and measurement of display or print output
TUB material: code=rha4ta

sRGB 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**	36,54	18,84	1,71	0,640	0,330	50,49	76,92	64,57	100,43	**40**
Y_d	**1 1 0**	76,99	92,78	13,85	0,419	0,505	97,13	−21,58	94,48	96,92	**102**
G_d	**0 1 0**	35,75	71,51	11,91	0,300	0,600	87,73	−86,18	83,21	119,80	**136**
C_d	**0 1 1**	53,81	78,74	106,98	0,224	0,328	91,11	−48,08	−14,13	50,11	**196**
B_d	**0 0 1**	18,04	7,22	95,06	0,150	0,060	32,30	79,19	−107,86	133,81	**306**
M_d	**1 0 1**	59,28	28,48	96,99	0,320	0,154	60,31	98,22	−60,83	115,54	**328**
N_d	**0 0 0**	0,01	0,01	0,01	0,333	0,333	0,09	0,02	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**	0,01	0,01	0,01	0,333	0,333	0,09	0,02	0,01	0,02	**0**
$W1_d$	**1,13**	95,05	100,00	108,90	0,312	0,329	100,00	0,00	0,00	0,00	**0**
$Z1_d$	**0,18**	17,11	18,00	19,60	0,312	0,329	49,49	0,00	0,00	0,00	**0**

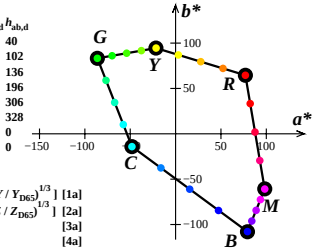
AEH00−1N

sRGB 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**	50	76	64	100	**40**
Y_d	**1 1 0**	97	−21	94	96	**102**
G_d	**0 1 0**	87	−86	83	119	**136**
C_d	**0 1 1**	91	−48	−14	50	**196**
B_d	**0 0 1**	32	79	−107	133	**306**
M_d	**1 0 1**	60	98	−60	115	**328**
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]
$h_{ab} = \text{atan}\ [\ b^* / a^*\ ]$ [4a]

AEH00−2N

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

Tristimulus values of black and white: Y_{Nn}=2,5, Y_{Ww}=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**	37,89	20,82	4,40	0,640	0,330	52,75	71,64	49,90	87,31	**34**
Y_d	**1 1 0**	77,19	92,66	16,19	0,419	0,505	97,08	−20,95	89,01	91,45	**103**
G_d	**0 1 0**	37,14	72,00	14,31	0,300	0,600	87,97	−82,61	77,57	113,32	**136**
C_d	**0 1 1**	54,67	79,02	106,68	0,224	0,328	91,24	−46,42	−13,73	48,41	**196**
B_d	**0 0 1**	19,93	9,53	95,10	0,150	0,060	36,99	68,65	−99,79	121,13	**304**
M_d	**1 0 1**	59,99	30,18	96,97	0,320	0,154	61,81	93,46	−58,24	110,13	**328**
N_d	**0 0 0**	2,40	2,52	2,74	0,333	0,333	18,05	0,10	0,03	0,11	**19**
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**	2,40	2,52	2,74	0,333	0,333	18,05	0,10	0,03	0,11	**19**
$W1_d$	**1,13**	94,74	99,67	108,54	0,312	0,329	99,87	−0,00	−0,00	0,00	**0**
$Z1_d$	**0,18**	19,02	20,00	21,78	0,312	0,329	51,84	0,02	0,00	0,02	**0**

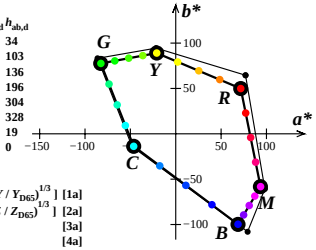
AEH01−1N

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

Tristimulus values of black and white: Y_{Nn}=2,5, Y_{Ww}=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**	52	71	49	87	**34**
Y_d	**1 1 0**	97	−20	89	91	**103**
G_d	**0 1 0**	87	−82	77	113	**136**
C_d	**0 1 1**	91	−46	−13	48	**196**
B_d	**0 0 1**	36	68	−99	121	**304**
M_d	**1 0 1**	61	93	−58	110	**328**
N_d	**0 0 0**	18	0	0	0	**19**
W_d	**1 1 1**	95	0	0	0	**0**

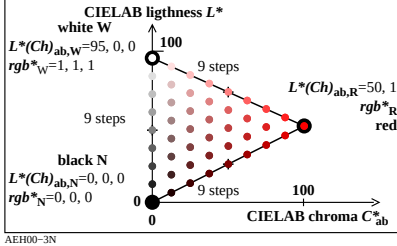


$a^* = 500\ [(X / X_{D65})^{1/3} - (Y / Y_{D65})^{1/3}]$ [1a]
$b^* = 200\ [(Y / Y_{D65})^{1/3} - (Z / Z_{D65})^{1/3}]$ [2a]
$C^*_{ab} = [\ a^{*2} + b^{*2}\ ]^{0,5}$ [3a]
$h_{ab} = \text{atan}\ [\ b^* / a^*\ ]$ [4a]

AEH01−2N

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

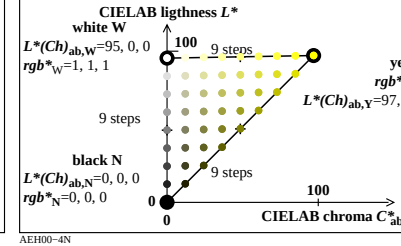
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6



AEH00−3N

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

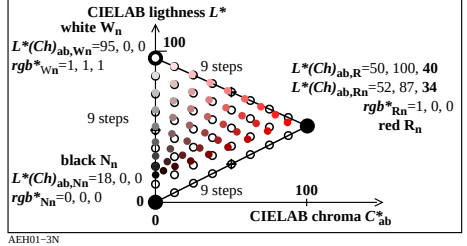
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6



AEH00−4N

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

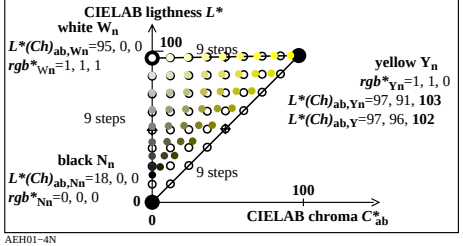
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6
Tristimulus values of black and white: Y_{Nn}=2,5, Y_{Ww}=88,6, Y_{Wa}=88,6.



AEH01−3N

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

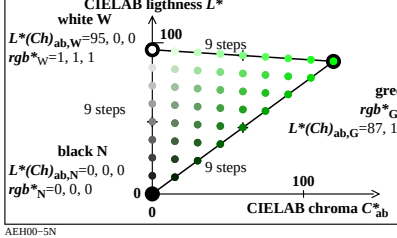
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6
Tristimulus values of black and white: Y_{Nn}=2,5, Y_{Ww}=88,6, Y_{Wa}=88,6.



AEH01−4N

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

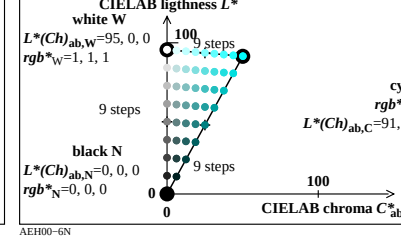
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6



AEH00−5N

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

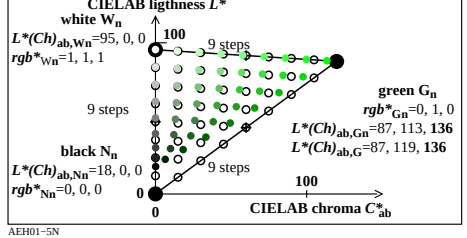
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6



AEH00−6N

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

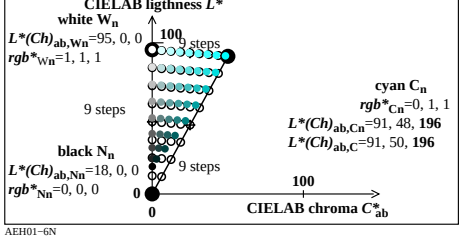
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6
Tristimulus values of black and white: Y_{Nn}=2,5, Y_{Ww}=88,6, Y_{Wa}=88,6.



AEH01−5N

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

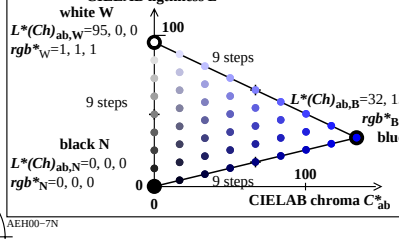
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6
Tristimulus values of black and white: Y_{Nn}=2,5, Y_{Ww}=88,6, Y_{Wa}=88,6.



AEH01−6N

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

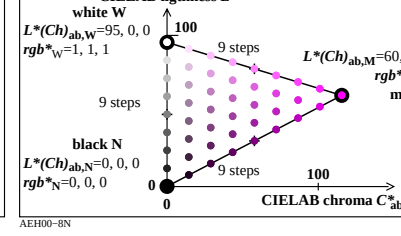
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6



AEH00−7N

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

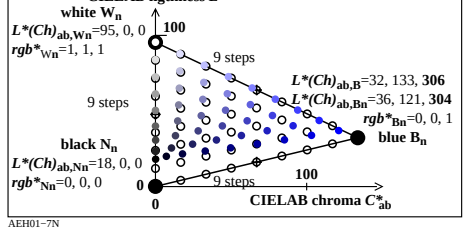
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6



AEH00−8N

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

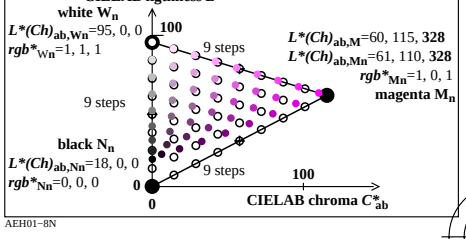
Tristimulus values of black and white: Y_N=0,0, Y_W=88,6
Tristimulus values of black and white: Y_{Nn}=2,5, Y_{Ww}=88,6, Y_{Wa}=88,6.



AEH01−7N

sRGB 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}=2,5, Y_{Ww}=88,6, Y_{Wa}=88,6.



AEH01−8N