

# WCGa data $rgb^*$ , $XYZxy$ , and $L^*ABCh_{AB1}$ in TUBLAB-colour space

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

	$rgb^*_d$	$L^*_d$	$A_{1,d}$	$B_{1,d}$	$C_{AB1,d}$	$h_{AB1,d}$
$R_d$	1 0 0	77	45	13	47	16
$Y_d$	1 1 0	94	1	48	48	88
$G_d$	0 1 0	88	-44	34	56	142
$C_d$	0 1 1	90	-46	-13	48	195
$B_d$	0 0 1	71	-1	-48	48	268
$M_d$	1 0 1	79	44	-34	55	322
$N_d$	0 0 0	69	0	0	0	0
$W_d$	1 1 1	95	0	0	0	0

$$a_1 = a_{20} [(x - x_c) / y]$$

$$b_1 = b_{20} [z / y]$$

$$a_{20} = 1, b_{20} = -0,4$$

$$x_c = 0,110, B_c = 1,000$$

$$A_1 = 2,5 (a_1 - a_{1,n}) Y \quad [1c]$$

$$B_1 = 2,5 B_c (b_1 - b_{1,n}) Y \quad [2c]$$

$$C_{AB1} = [A_1^2 + B_1^2]^{0,5} \quad [3c]$$

$$h_{AB1} = \text{atan} [B_1 / A_1] \quad [4c]$$

