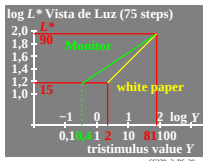


SS230-1, B6_28

sensation scaling functions
lightness L^* and tristimulus value Y
adaptation on surround white:
 $L^* = 100 (Y / 100)^{1/2,0}$
adaptation on surround gray:
 $L^* = 100 (Y / 100)^{1/2,4}$
description with CIELAB 1976:
 $L^* = 116 (Y / 100)^{1/3,0} - 16$
adaptation on surround black:
 $L^* = 100 (Y / 100)^{1/3,0}$

SS230-2, B6_29



SS230-3, B6_30

linear scan area	Y	lightness- area	L^*	lightness- area	L^*	color h^*	no. d
76,6 ... 85,5	87,5 ... 92,4	90	FFF	4095			
60,1 ... 68,1	77,5 ... 82,4	80	DDD	3549			
45,6 ... 52,5	67,5 ... 72,4	70	BBB	3003			
33,1 ... 39,0	57,5 ... 62,4	60	999	2457			
22,6 ... 27,5	47,5 ... 52,4	50	777	1911			
14,1 ... 18,0	37,5 ... 42,4	40	555	1365			
7,6 ... 10,5	27,5 ... 32,4	30	333	819			
3,1 ... 5,0	17,5 ... 22,4	20	111	273			
1,6 ... 3,0	12,5 ... 17,4	15	000	0			

SS230-5, B6_32

whiteness $r_a g_a b_a$	yellow- ness Y^*	tristimulus value Y	coverage b
15,15,15	0	81 Y_{max}	0,00
15,15,13	2		0,22
15,15,11	4		0,41
15,15, 9	6		0,57
15,15, 7	8		0,71
15,15, 5	10		0,83
15,15, 3	12		0,91
15,15, 1	14		0,98
15,15, 0	15	76 Y_{min}	1,00

SS230-7, B6_34

-Color	L^	luminous value Y	$Y = (L^*/10)^2 / 9$
0	90	81 Y_{max}	81,0 $Y_{normalized}$
2	80	64	56,9 (=Ypaper)
4	70	49	38,1
6	60	36	24,0
8	50	25	13,9
10	40	16	7,1
12	30	9	3,0
14	20	4	0,9
15	15	2,25 Y_{min}	0,4

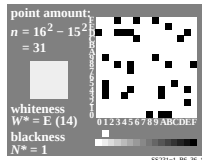
SS230-4, B6_31

whiteness $r_a g_a b_a$	black- ness N^*	tristimulus value Y	coverage b
15,15,15	0	81 Y_{max}	0,00
13,13,13	2	64	0,22
11,11,11	4	49	0,41
9, 9, 9	6	36	0,57
7, 7, 7	8	25	0,71
5, 5, 5	10	16	0,83
3, 3, 3	12	9	0,91
1, 1, 1	14	4	0,98
0, 0, 0	15	2,25 Y_{min}	1,00

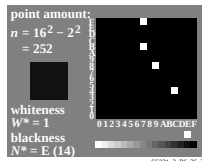
SS230-6, B6_33

whiteness $r_a g_a b_a$	black- ness N^*	tristimulus value Y	coverage b
15,15,15	0	81 Y_{max}	0,00
13,13,13	2	64	0,22
11,11,11	4	49	0,41
9, 9, 9	6	36	0,57
7, 7, 7	8	25	0,71
5, 5, 5	10	16	0,83
3, 3, 3	12	9	0,91
1, 1, 1	14	4	0,98
0, 0, 0	15	2,25 Y_{min}	1,00

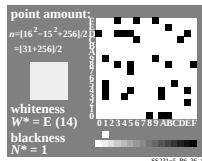
SS231-8, B7_03



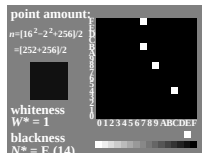
SS231-1, B6_36_1



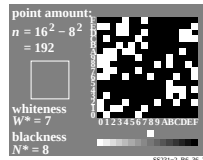
SS231-3, B6_36_3



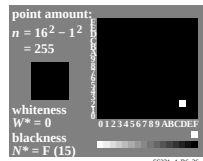
SS231-5, B6_36_5



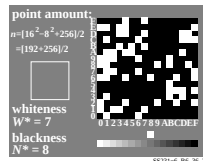
SS231-7, B6_36_7



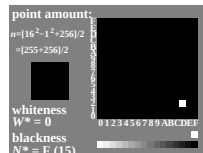
SS231-2, B6_36_2



SS231-4, B6_36_4



SS231-6, B6_36_6



SS231-8, B6_36_8

gráfico TUB-SS23; Colour scaling
Lightness and scaling functions, area coverage

entrada: w/rgb/cmyk -> w/rgb/cmyk_a
salida: ningún cambio