

Colour stimuli of just noticeable colour thresholds (p=50%) in BY direction													
number Colour series		CIELAB differences lightness, chroma, Σ				LABJND differences lightness, chroma, Σ				colour differences other formulae			notes experimental series
		ΔL^*	Δa^*	Δb^*	ΔE^*_{ab}	ΔL^*	Δa^*	Δb^*	ΔE^*	CMC	C94	C00	
0	WPN	0.0	-0.14	-1.75	1.75	0.04	-0.09	-0.97	0.98	2.49	1.71	1.71	_WN, GR, BY
1	WPN	0.0	-0.1	-1.16	1.16	0.05	-0.09	-0.9	0.91	1.4	1.02	1.0	grey surround
2	WPN	0.0	-0.08	-1.01	1.02	0.05	-0.09	-0.98	0.98	1.32	0.93	0.91	$\bar{Y}_G=16.6$
3	WPN	0.0	-0.08	-0.94	0.95	0.0	-0.11	-1.04	1.04	1.4	0.93	0.92	with white
4	WPN	0.0	-0.09	-1.08	1.08	0.0	-0.12	-1.25	1.25	1.43	1.01	1.02	border
5	WPN	0.0	-0.1	-1.31	1.32	0.0	-0.14	-1.42	1.42	1.55	1.12	1.15	$X_W=95.18$
6	WPN	0.0	-0.08	-0.97	0.98	0.0	-0.11	-1.2	1.21	1.29	0.9	0.89	$Y_W=100.0$
7	WPN	0.0	-0.12	-1.12	1.13	0.0	-0.13	-1.11	1.12	1.51	1.05	1.03	$Z_W=44.15$
8	WPN	0.0	-0.12	-1.26	1.27	0.0	-0.12	-1.06	1.07	1.88	1.24	1.21	$x_W=0.3977$
9	WPN	0.0	-0.08	-0.91	0.92	0.0	-0.08	-0.85	0.85	1.41	0.91	0.91	$y_W=0.4178$
10	WPN	0.0	-0.04	-0.84	0.84	0.0	-0.04	-0.82	0.82	1.27	0.84	0.84	near P4000
11	WDN	0.0	-0.04	-0.24	0.25	0.0	-0.05	-0.47	0.48	0.35	0.24	0.24	_WN, GR, BY
12	WDN	0.0	-0.04	-0.24	0.25	0.0	-0.05	-0.53	0.54	0.37	0.24	0.25	grey surround
13	WDN	0.0	-0.04	-0.26	0.27	0.0	-0.05	-0.63	0.63	0.38	0.25	0.25	$\bar{Y}_G=16.6$
14	WDN	0.0	-0.04	-0.28	0.28	0.0	-0.05	-0.7	0.7	0.4	0.27	0.27	with white
15	WDN	0.0	-0.02	-0.27	0.27	0.0	-0.03	-0.67	0.67	0.39	0.26	0.26	border
16	WDN	0.0	-0.07	-0.32	0.33	0.0	-0.09	-0.76	0.77	0.5	0.32	0.33	$X_W=90.38$
17	WDN	0.0	-0.06	-0.34	0.35	0.0	-0.08	-0.76	0.76	0.54	0.35	0.36	$Y_W=100.0$
18	WDN	0.0	-0.08	-0.36	0.37	0.0	-0.09	-0.72	0.73	0.54	0.36	0.37	$Z_W=87.54$
19	WDN	0.0	-0.06	-0.39	0.39	0.0	-0.06	-0.67	0.68	0.55	0.37	0.38	$x_W=0.3251$
20	WDN	0.0	-0.12	-0.44	0.46	0.0	-0.11	-0.67	0.68	0.6	0.42	0.44	$y_W=0.3598$
21	WDN	0.0	-0.08	-0.42	0.43	0.0	-0.07	-0.68	0.69	0.58	0.4	0.41	near D65
22	GDR	0.0	-0.25	-0.51	0.57	0.0	-0.09	-1.25	1.25	0.22	0.22	0.22	_WN, GR, BY
23	GDR	0.0	-0.22	-0.51	0.55	0.0	-0.12	-1.21	1.22	0.26	0.27	0.28	grey surround
24	GDR	0.0	-0.11	-0.46	0.47	0.0	-0.09	-1.06	1.07	0.3	0.31	0.31	$\bar{Y}_G=16.6$
25	GDR	0.0	-0.1	-0.47	0.48	0.0	-0.1	-1.07	1.08	0.41	0.37	0.35	with white
26	GDR	0.0	-0.09	-0.5	0.51	0.0	-0.1	-1.12	1.13	0.58	0.45	0.44	border
27	GDR	0.0	-0.09	-0.48	0.49	0.0	-0.11	-1.07	1.08	0.71	0.48	0.48	$X_W=90.38$
28	GDR	0.0	-0.1	-0.55	0.56	0.0	-0.11	-1.28	1.28	0.75	0.39	0.33	$Y_W=100.0$
29	GDR	0.01	-0.12	-0.6	0.62	0.12	-0.13	-1.43	1.44	0.59	0.32	0.27	$Z_W=87.54$
30	GDR	0.01	-0.07	-0.63	0.63	0.1	-0.08	-1.5	1.51	0.54	0.28	0.23	$x_W=0.3251$
31	GDR	0.01	-0.06	-0.69	0.69	0.09	-0.06	-1.67	1.67	0.55	0.28	0.23	$y_W=0.3598$
32	GDR	0.01	-0.08	-0.74	0.75	0.09	-0.07	-1.81	1.81	0.58	0.29	0.23	near D65
33	BDY	0.0	-0.09	-0.36	0.37	0.0	-0.1	-0.89	0.89	0.2	0.17	0.17	_WN, GR, BY
34	BDY	0.0	-0.12	-0.46	0.48	0.0	-0.14	-1.13	1.14	0.3	0.26	0.27	grey surround
35	BDY	0.0	-0.1	-0.42	0.44	0.0	-0.12	-1.0	1.01	0.34	0.28	0.29	$\bar{Y}_G=16.6$
36	BDY	0.0	-0.1	-0.42	0.43	0.0	-0.11	-0.97	0.98	0.41	0.32	0.33	with white
37	BDY	0.0	-0.1	-0.46	0.47	0.0	-0.11	-1.02	1.03	0.56	0.41	0.41	border
38	BDY	0.0	-0.09	-0.45	0.46	0.0	-0.11	-1.0	1.0	0.69	0.45	0.46	$X_W=90.38$
39	BDY	0.0	-0.13	-0.74	0.75	0.0	-0.16	-1.22	1.23	0.6	0.5	0.51	$Y_W=100.0$
40	BDY	0.0	-0.09	-0.81	0.82	0.0	-0.1	-0.83	0.84	0.42	0.36	0.36	$Z_W=87.54$
41	BDY	0.0	-0.08	-1.24	1.24	0.0	-0.09	-0.92	0.92	0.54	0.45	0.45	$x_W=0.3251$
42	BDY	0.0	-0.09	-2.0	2.0	0.0	-0.11	-0.9	0.91	0.75	0.58	0.59	$y_W=0.3598$
43	BDY	0.01	-0.11	-4.84	4.85	0.08	-0.13	-0.99	1.0	1.59	1.1	1.14	near D65
mean					0.79					1.01	0.77	0.54	0.53
standard deviation					0.73					0.28	0.51	0.35	0.35
Samples: bright white (W, no. 0), dark black (S, no. 10), White (W, no. 11), Black (N, no. 21) Green (G=T (turquoise), no. 22), Red (R=M (magenta), no. 32), Blue (B, no. 33), Yellow (Y, no. 43) Source: BAM Research Report no. 115 (1985), Tables 5.40;1 to 11; LABJND0,7; 1,3; 1,2													