

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	0.03	-0.1	-1.06	1.07	2.49	1.71	1.71	_WN, GR, BY
1 WPN	0.0	-0.1	-1.16	1.16	0.04	-0.11	-0.98	0.99	1.4	1.02	1.0	grey surround
2 WPN	0.0	-0.08	-1.01	1.02	0.04	-0.1	-1.07	1.07	1.32	0.93	0.91	$Y_G=16.6$
3 WPN	0.0	-0.08	-0.94	0.95	0.0	-0.13	-1.13	1.14	1.4	0.93	0.92	with white
4 WPN	0.0	-0.09	-1.08	1.08	0.0	-0.15	-1.36	1.37	1.43	1.01	1.02	border
5 WPN	0.0	-0.1	-1.31	1.32	0.0	-0.17	-1.54	1.55	1.55	1.12	1.15	$X_w=95.18$
6 WPN	0.0	-0.08	-0.97	0.98	0.0	-0.13	-1.31	1.32	1.29	0.9	0.89	$Y_w=100.0$
7 WPN	0.0	-0.12	-1.12	1.13	0.0	-0.16	-1.22	1.23	1.51	1.05	1.03	$Z_w=44.15$
8 WPN	0.0	-0.12	-1.26	1.27	0.0	-0.14	-1.16	1.16	1.88	1.24	1.21	$x_w=0.3977$
9 WPN	0.0	-0.08	-0.91	0.92	0.0	-0.1	-0.93	0.93	1.41	0.91	0.91	$y_w=0.4178$
10 WPN	0.0	-0.04	-0.84	0.84	0.0	-0.05	-0.89	0.89	1.27	0.84	0.84	near P4000
11 WDN	0.0	-0.04	-0.24	0.25	0.0	-0.09	-0.82	0.83	0.35	0.24	0.24	_WN, GR, BY
12 WDN	0.0	-0.04	-0.24	0.25	0.0	-0.1	-0.93	0.93	0.37	0.24	0.25	grey surround
13 WDN	0.0	-0.04	-0.26	0.27	0.0	-0.09	-1.1	1.1	0.38	0.25	0.25	$Y_G=16.6$
14 WDN	0.0	-0.04	-0.28	0.28	0.0	-0.1	-1.21	1.22	0.4	0.27	0.27	with white
15 WDN	0.0	-0.02	-0.27	0.27	0.0	-0.06	-1.16	1.16	0.39	0.26	0.26	border
16 WDN	0.0	-0.07	-0.32	0.33	0.0	-0.16	-1.32	1.33	0.5	0.32	0.33	$X_w=90.38$
17 WDN	0.0	-0.06	-0.34	0.35	0.0	-0.14	-1.31	1.32	0.54	0.35	0.36	$Y_w=100.0$
18 WDN	0.0	-0.08	-0.36	0.37	0.0	-0.16	-1.25	1.26	0.54	0.36	0.37	$Z_w=87.54$
19 WDN	0.0	-0.06	-0.39	0.39	0.0	-0.12	-1.17	1.17	0.55	0.37	0.38	$x_w=0.3251$
20 WDN	0.0	-0.12	-0.44	0.46	0.0	-0.19	-1.16	1.18	0.6	0.42	0.44	$y_w=0.3598$
21 WDN	0.0	-0.08	-0.42	0.43	0.0	-0.14	-1.19	1.19	0.58	0.4	0.41	near D65
22 GDR	0.0	-0.25	-0.51	0.57	0.0	-0.16	-2.17	2.17	0.22	0.22	0.22	_WN, GR, BY
23 GDR	0.0	-0.22	-0.51	0.55	0.0	-0.21	-2.11	2.12	0.26	0.27	0.28	grey surround
24 GDR	0.0	-0.11	-0.46	0.47	0.0	-0.16	-1.84	1.85	0.3	0.31	0.31	$Y_G=16.6$
25 GDR	0.0	-0.1	-0.47	0.48	0.0	-0.18	-1.86	1.86	0.41	0.37	0.35	with white
26 GDR	0.0	-0.09	-0.5	0.51	0.0	-0.19	-1.94	1.95	0.58	0.45	0.44	border
27 GDR	0.0	-0.09	-0.48	0.49	0.0	-0.21	-1.86	1.87	0.71	0.48	0.48	$X_w=90.38$
28 GDR	0.0	-0.1	-0.55	0.56	0.0	-0.2	-2.22	2.23	0.75	0.39	0.33	$Y_w=100.0$
29 GDR	0.01	-0.12	-0.6	0.62	0.15	-0.23	-2.48	2.5	0.59	0.32	0.27	$Z_w=87.54$
30 GDR	0.01	-0.07	-0.63	0.63	0.12	-0.14	-2.61	2.61	0.54	0.28	0.23	$x_w=0.3251$
31 GDR	0.01	-0.06	-0.69	0.69	0.11	-0.12	-2.89	2.89	0.55	0.28	0.23	$y_w=0.3598$
32 GDR	0.01	-0.08	-0.74	0.75	0.11	-0.14	-3.13	3.13	0.58	0.29	0.23	near D65
33 BDY	0.0	-0.09	-0.36	0.37	0.0	-0.18	-1.54	1.55	0.2	0.17	0.17	_WN, GR, BY
34 BDY	0.0	-0.12	-0.46	0.48	0.0	-0.25	-1.96	1.97	0.3	0.26	0.27	grey surround
35 BDY	0.0	-0.1	-0.42	0.44	0.0	-0.22	-1.73	1.75	0.34	0.28	0.29	$Y_G=16.6$
36 BDY	0.0	-0.1	-0.42	0.43	0.0	-0.21	-1.69	1.7	0.41	0.32	0.33	with white
37 BDY	0.0	-0.1	-0.46	0.47	0.0	-0.21	-1.77	1.79	0.56	0.41	0.41	border
38 BDY	0.0	-0.09	-0.45	0.46	0.0	-0.19	-1.73	1.74	0.69	0.45	0.46	$X_w=90.38$
39 BDY	0.0	-0.13	-0.74	0.75	0.0	-0.3	-2.11	2.13	0.6	0.5	0.51	$Y_w=100.0$
40 BDY	0.0	-0.09	-0.81	0.82	0.0	-0.19	-1.44	1.46	0.42	0.36	0.36	$Z_w=87.54$
41 BDY	0.0	-0.08	-1.24	1.24	0.0	-0.17	-1.59	1.6	0.54	0.45	0.45	$x_w=0.3251$
42 BDY	0.0	-0.09	-2.0	2.0	0.0	-0.2	-1.56	1.57	0.75	0.58	0.59	$y_w=0.3598$
43 BDY	0.01	-0.11	-4.84	4.85	0.1	-0.24	-1.71	1.73	1.59	1.1	1.14	near D65
mean				0.79					1.58	0.77	0.54	0.53
standard deviation				0.73					0.53	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