

Colour stimuli of just noticeable colour thresholds (p=50%) in GR 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	0.01	-1.13	0.1	1.13	0.05	-0.73	0.06	0.73	1.59	1.08	1.62	_WN, GR, BY
1	WPN	0.0	-0.9	0.1	0.9	0.05	-0.78	0.07	0.79	1.18	0.85	1.25	grey surround
2	WPN	0.0	-0.75	0.08	0.75	0.05	-0.81	0.08	0.81	1.0	0.72	1.07	$\bar{Y}_G=16.6$
3	WPN	0.01	-0.71	0.06	0.71	0.09	-0.89	0.06	0.9	1.01	0.69	1.03	with white
4	WPN	0.0	-0.62	0.07	0.62	0.0	-0.85	0.08	0.86	0.84	0.59	0.87	border
5	WPN	0.0	-0.64	0.07	0.64	0.0	-0.9	0.08	0.9	0.89	0.6	0.88	$X_W=95.18$
6	WPN	0.0	-0.66	0.06	0.67	0.0	-0.89	0.08	0.89	0.89	0.64	0.94	$Y_W=100.0$
7	WPN	0.0	-0.8	0.07	0.8	0.0	-0.84	0.07	0.84	1.08	0.77	1.14	$Z_W=44.15$
8	WPN	0.0	-0.85	0.1	0.86	0.0	-0.84	0.08	0.84	1.22	0.84	1.25	$x_W=0.3977$
9	WPN	0.0	-0.69	0.07	0.69	0.0	-0.75	0.06	0.75	1.05	0.69	1.03	$y_W=0.4178$
10	WPN	0.0	-0.61	0.03	0.61	0.0	-0.68	0.03	0.68	0.93	0.61	0.91	<i>near P4000</i>
11	WDN	0.0	-0.56	0.02	0.56	0.06	-0.62	0.04	0.62	0.8	0.55	0.84	_WN, GR, BY
12	WDN	0.0	-0.49	0.02	0.49	0.0	-0.59	0.05	0.59	0.73	0.48	0.73	grey surround
13	WDN	0.0	-0.49	0.02	0.49	0.0	-0.63	0.04	0.64	0.69	0.48	0.72	$\bar{Y}_G=16.6$
14	WDN	0.0	-0.5	0.01	0.5	0.0	-0.67	0.04	0.67	0.7	0.49	0.73	with white
15	WDN	0.0	-0.53	0.02	0.53	0.0	-0.71	0.06	0.71	0.76	0.52	0.78	border
16	WDN	0.0	-0.53	0.02	0.53	0.0	-0.69	0.06	0.69	0.79	0.53	0.79	$X_W=90.38$
17	WDN	0.0	-0.61	0.02	0.61	0.0	-0.74	0.06	0.74	0.93	0.61	0.91	$Y_W=100.0$
18	WDN	0.0	-0.61	0.03	0.61	0.0	-0.7	0.06	0.7	0.89	0.6	0.9	$Z_W=87.54$
19	WDN	0.0	-0.7	0.02	0.7	0.0	-0.71	0.05	0.71	0.99	0.68	1.02	$x_W=0.3251$
20	WDN	0.0	-0.7	0.03	0.7	0.0	-0.62	0.05	0.63	0.96	0.67	1.01	$y_W=0.3598$
21	WDN	0.0	-0.68	0.03	0.69	0.0	-0.63	0.05	0.63	0.95	0.66	1.0	<i>near D65</i>
22	GDR	0.01	-3.6	0.04	3.6	0.11	-1.27	0.11	1.28	1.16	0.81	0.8	_WN, GR, BY
23	GDR	0.01	-2.46	0.04	2.46	0.11	-1.33	0.11	1.34	0.96	0.78	0.77	grey surround
24	GDR	0.01	-1.69	0.05	1.69	0.11	-1.31	0.13	1.32	0.89	0.78	0.79	$\bar{Y}_G=16.6$
25	GDR	0.01	-1.19	0.02	1.19	0.09	-1.12	0.05	1.13	0.84	0.73	0.86	with white
26	GDR	0.01	-0.94	0.04	0.95	0.1	-1.02	0.1	1.04	0.97	0.76	1.0	border
27	GDR	0.01	-0.78	0.02	0.78	0.09	-0.94	0.06	0.95	1.13	0.77	1.12	$X_W=90.38$
28	GDR	0.01	-0.99	0.04	0.99	0.11	-1.1	0.11	1.11	0.51	0.42	0.43	$Y_W=100.0$
29	GDR	0.01	-0.96	0.04	0.96	0.12	-0.95	0.12	0.96	0.35	0.26	0.26	$Z_W=87.54$
30	GDR	0.01	-1.1	0.03	1.1	0.1	-0.97	0.09	0.98	0.37	0.24	0.24	$x_W=0.3251$
31	GDR	0.01	-1.04	0.04	1.04	0.09	-0.87	0.11	0.88	0.33	0.2	0.2	$y_W=0.3598$
32	GDR	0.02	-1.1	0.03	1.1	0.2	-0.89	0.11	0.92	0.34	0.2	0.2	<i>near D65</i>
33	BDY	0.01	-0.94	0.01	0.94	0.1	-1.04	0.03	1.05	0.8	0.68	0.75	_WN, GR, BY
34	BDY	0.01	-0.8	0.01	0.8	0.09	-0.92	0.04	0.93	0.8	0.62	0.81	grey surround
35	BDY	0.01	-0.8	0.02	0.8	0.1	-0.93	0.07	0.94	0.95	0.67	0.94	$\bar{Y}_G=16.6$
36	BDY	0.01	-0.77	0.01	0.77	0.1	-0.9	0.03	0.9	1.0	0.68	0.98	with white
37	BDY	0.01	-0.76	0.02	0.76	0.1	-0.91	0.06	0.92	1.0	0.72	1.07	border
38	BDY	0.0	-0.7	0.03	0.7	0.0	-0.85	0.07	0.85	1.07	0.7	1.02	$X_W=90.38$
39	BDY	0.01	-0.78	0.03	0.78	0.09	-0.95	0.05	0.95	1.24	0.67	1.02	$Y_W=100.0$
40	BDY	0.01	-0.88	0.06	0.88	0.09	-1.02	0.06	1.03	0.93	0.62	0.77	$Z_W=87.54$
41	BDY	0.01	-0.86	0.11	0.86	0.1	-1.01	0.08	1.02	0.78	0.55	0.65	$x_W=0.3251$
42	BDY	0.01	-0.95	0.21	0.98	0.09	-1.12	0.09	1.13	0.74	0.54	0.66	$y_W=0.3598$
43	BDY	0.01	-0.92	0.4	1.01	0.08	-1.08	0.08	1.09	0.64	0.46	0.58	<i>near D65</i>
mean					0.91				0.89	0.88	0.62	0.85	
standard deviation					0.52				0.18	0.24	0.17	0.27	

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