

## Colour stimuli of just noticeable colour thresholds ( $p=50\%$ ) in *BY* direction

number Colour series	CIELAB differences lightness, chroma, $\Sigma$				LABJND differences lightness, chroma, $\Sigma$				colour differences other formulae			notes experimental series	
	$\Delta L^*$	$\Delta a^*$	$\Delta b^*$	$\Delta E^*$	$\Delta L^*$	$\Delta a^*$	$\Delta b^*$	$\Delta E^*$	CMC	C94	C00		
0 <i>WPN</i>	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 grey surround CIE data no. 03 with white border	
1 <i>WPN</i>	0.0	-0.1	-1.16	1.16	0.05	-0.09	-0.9	0.91	1.4	1.02	1.0		
2 <i>WPN</i>	0.0	-0.08	-1.01	1.02	0.05	-0.09	-0.98	0.98	1.32	0.93	0.91		
3 <i>WPN</i>	0.0	-0.08	-0.94	0.95	0.0	-0.11	-1.04	1.04	1.4	0.93	0.92		
4 <i>WPN</i>	0.0	-0.09	-1.08	1.08	0.0	-0.12	-1.25	1.25	1.43	1.01	1.02		
5 <i>WPN</i>	0.0	-0.1	-1.31	1.32	0.0	-0.14	-1.42	1.42	1.55	1.12	1.15		
6 <i>WPN</i>	0.0	-0.08	-0.97	0.98	0.0	-0.11	-1.2	1.21	1.29	0.9	0.89		
7 <i>GDR</i>	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 grey surround CIE data no. 09 with white border	
8 <i>GDR</i>	0.0	-0.11	-0.46	0.47	0.0	-0.09	-1.06	1.07	0.3	0.31	0.31		
9 <i>GDR</i>	0.0	-0.09	-0.48	0.49	0.0	-0.11	-1.07	1.08	0.71	0.48	0.48		
10 <i>GDR</i>	0.01	-0.07	-0.63	0.63	0.1	-0.08	-1.5	1.51	0.54	0.28	0.23		
11 <i>GDR</i>	0.01	-0.08	-0.74	0.75	0.09	-0.07	-1.81	1.81	0.58	0.29	0.23		
12 <i>BDY</i>	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 grey surround CIE data no. 14 with white border	
13 <i>BDY</i>	0.0	-0.1	-0.42	0.44	0.0	-0.12	-1.0	1.01	0.34	0.28	0.29		
14 <i>BDY</i>	0.0	-0.09	-0.45	0.46	0.0	-0.11	-1.0	1.0	0.69	0.45	0.46		
15 <i>BDY</i>	0.0	-0.08	-1.24	1.24	0.0	-0.09	-0.92	0.92	0.54	0.45	0.45		
16 <i>BDY</i>	0.01	-0.11	-4.84	4.85	0.08	-0.13	-0.99	1.0	1.59	1.1	1.14		
<b>mean</b>				<b>1.09</b>					<b>1.14</b>	<b>0.98</b>	<b>0.69</b>	<b>0.68</b>	
<b>standard deviation</b>				<b>1.01</b>					<b>0.24</b>	<b>0.61</b>	<b>0.42</b>	<b>0.43</b>	

Source: BAM Research Report no. 115 (1985), Tables 5.40;1 to 11; LABJND0,7; 1,3; 1,2