

## Appendix

Set A	Lineup race	N suspect	Prop Choose	Binomial Prob.	Prop. 95% upper	Prop. 95% lower	FS	FS 95% upper	FS 95% lower	Effective Size	E	E 95% upper	E 95% lower	Visual Features
1	we	9	0.125	0.502	0.203	0.074	8.0	13.5	4.9	6.8	6.987	8.663	5.854	1
2	we	12	0.167	0.150	0.251	0.107	6.0	9.4	4.0	4.9	5.102	6.409	4.238	8
3	we	14	0.194	0.046	0.282	0.129	5.1	7.7	3.5	4.8	3.093	4.071	2.494	4
4	we	32	0.444	0.000	0.541	0.352	2.3	2.8	1.8	5.5	3.757	5.271	2.918	4
5	ac	12	0.167	0.15	0.251	0.107	6.0	9.4	4.0	3.8	3.969	5.863	3.000	4
6	ac	4	0.056	0.057	0.118	0.025	18.0	39.8	8.4	4.9	4.174	5.376	3.411	5
7	ac	11	0.153	0.242	0.235	0.096	6.5	10.5	4.3	7.1	6.715	8.596	5.51	2
8	mix	18	0.250	0.002	0.342	0.176	4.0	5.7	2.9	5.4	4.900	6.114	4.088	3
Set B														
9	we	28	0.389	0.000	0.486	0.300	2.6	3.3	2.1	4.9	4.327	5.885	3.422	5
10	we	10	0.139	0.362	0.219	0.085	7.2	11.8	4.6	4.8	4.531	5.671	3.773	7
11	we	0	0.000	0.000	0.036	0.000	Undefined	Undefined	Undefined	5.6	5.290	6.553	4.435	4
12	we	1	0.014	0.001	0.06	0.003	72.0	322.0	16.6	2.5	1.846	2.376	1.509	3
13	ac	29	0.403	0.000	0.500	0.313	2.5	3.2	2.0	5.0	4.154	5.748	3.252	5
14	ac	11	0.153	0.242	0.235	0.096	6.5	10.5	4.2	3.9	3.671	4.703	3.011	5
15	ac	2	0.028	0.006	0.081	0.009	36.0	108.5	12.4	5.1	3.795	5.420	2.920	4
16	mix	1	0.014	0.001	0.060	0.003	72.0	322.0	16.6	4.3	4.114	5.036	3.478	2

Table A1: Raw data for all lineups when evaluated by all participants.

Key to tables A1 – A3: Lineup race; we = white European; ac = African-Caribbean; mix = mixed race. N suspect = the number of mock witnesses who chose the suspect; Prop. Choose = the proportion of mock witnesses who chose the suspect; Binomial prob. = the binomial probability that the proportion of mock witnesses who chose the suspect differs from that expected by chance (1/9); Prop. 95% upper/lower = the maximum and minimum endpoints of the 95% confidence interval of Prop. Choose. FS = functional size; FS 95% upper/ lower = the maximum/minimum endpoint of the 95% confidence interval of FS; E = Tredoux's E; E 95% upper/ lower = the maximum/minimum endpoint of the 95% confidence interval of E; Visual features = number of useful visible features mentioned in the witness's first description.

Set A	Lineup race	N suspect	Prop Choose	Binomial Prob.	Prop. 95% upper	Prop.95% lower	FS	FS 95% upper	FS 95% lower	Effective Size	E	E 95% upper	E 95% lower	Visual Features
1	we	5	0.139	0.437	0.259	0.069	7.2	14.5	3.9	6.0	8.100	9.561	7.026	1
2	we	7	0.194	0.133	0.323	0.109	5.1	9.2	3.1	4.8	5.102	7.198	3.952	8
3	we	4	0.111	0.563	0.226	0.051	9.0	19.7	4.4	4.0	3.640	5.340	2.761	4
4	we	19	0.528	0.000	0.658	0.393	1.9	2.5	1.5	4.7	3.880	6.771	2.719	4
5	ac	6	0.167	0.259	0.292	0.089	6.0	11.3	3.4	4.0	3.100	5.567	2.148	4
6	ac	4	0.111	0.563	0.226	0.051	9.0	19.7	4.4	4.9	3.927	5.514	3.05	5
7	ac	4	0.111	0.563	0.226	0.051	9.0	19.7	4.4	8.0	5.538	8.481	4.112	2
8	mix	10	0.278	0.008	0.413	0.174	3.6	5.8	2.4	5.5	5.102	6.471	4.211	3
Set B														
9	we	10	0.278	0.008	0.413	0.174	3.6	5.8	2.4	4.8	4.800	6.402	3.839	5
10	we	2	0.056	0.177	0.155	0.019	18.0	54.0	6.4	4.2	3.927	5.74	2.985	7
11	we	0	0.000	0.010	0.070	0.000	Undefined	Undefined	Undefined	4.3	4.378	5.603	3.593	4
12	we	0	0.000	0.010	0.070	0.000	Undefined	Undefined	Undefined	1.8	1.766	2.492	1.367	3
13	ac	12	0.333	0.001	0.471	0.220	3.0	4.6	2.1	5.4	4.985	7.559	3.718	5
14	ac	5	0.139	0.437	0.259	0.069	7.2	14.5	3.9	3.5	3.273	4.456	2.586	5
15	ac	0	0.000	0.010	0.070	0.000	Undefined	Undefined	Undefined	3.6	3.176	4.537	2.444	4
16	mix	1	0.028	0.059	0.116	0.006	36.0	161.3	8.6	3.5	3.465	4.347	2.881	2

Table A2: Raw data of all lineups when evaluated by White European mock witnesses.

Key to tables A1 – A3: Lineup race; we = white European; ac = African-Caribbean; mix = mixed race. N suspect = the number of mock witnesses who chose the suspect; Prop. Choose = the proportion of mock witnesses who chose the suspect; Binomial prob. = the binomial probability that the proportion of mock witnesses who chose the suspect differs from that expected by chance (1/9); Prop. 95% upper/lower = the maximum and minimum endpoints of the 95% confidence interval of Prop. Choose; FS = functional size; FS 95% upper/ lower = the maximum/minimum endpoint of the 95% confidence interval of FS; E = Tredoux's E; E 95% upper/ lower = the maximum/minimum endpoint of the 95% confidence interval of E; Visual features = number of useful visible features mentioned in the witness's first description.

Set A	Lineup race	N suspect	Prop Choos e	Binomial Prob.	Prop. 95% upper	Prop.95% lower	FS	FS 95% upper	FS 95% lower	Effective Size	E	E 95% upper	E 95% lower	Visual Features
1	we	4	0.111	0.563	0.226	0.051	9.0	19.7	4.4	7.5	5.268	5.652	4.933	1
2	we	5	0.139	0.437	0.259	0.069	7.2	14.5	3.9	4.2	4.947	5.281	4.652	8
3	we	10	0.278	0.008	0.413	0.174	3.6	5.8	2.4	4.1	2.561	2.751	2.396	4
4	we	13	0.361	0.000	0.499	0.243	2.8	4.1	2.0	5.6	3.465	3.753	3.218	4
5	ac	6	0.167	0.259	0.292	0.089	6.0	11.3	3.4	3.7	4.836	5.294	4.450	4
6	ac	0	0.000	0.010	0.070	0.000	Undefined	Undefined	Undefined	4.1	3.580	3.856	3.341	5
7	ac	7	0.194	0.133	0.323	0.109	5.1	9.2	3.1	5.6	7.535	7.914	7.191	2
8	mix	8	0.222	0.060	0.354	0.130	4.5	7.7	2.8	5.0	4.438	4.754	4.162	3
Set B														
9	we	18	0.500	0.000	0.633	0.367	2.0	2.7	1.6	4.5	3.323	3.677	3.031	5
10	we	8	0.222	0.060	0.354	0.130	4.5	7.7	2.8	4.8	4.800	5.043	4.579	7
11	we	0	0.000	0.010	0.070	0.000	Undefined	Undefined	Undefined	5.8	5.492	5.918	5.122	4
12	we	1	0.028	0.059	0.116	0.006	36.0	161.3	8.6	2.5	1.929	2.084	1.795	3
13	ac	17	0.472	0.000	0.607	0.342	2.1	2.9	1.6	3.9	3.323	3.631	3.063	5
14	ac	6	0.167	0.259	0.292	0.089	6.0	11.3	3.4	4.3	3.880	4.211	3.598	5
15	ac	2	0.056	0.177	0.155	0.019	18.0	54.0	6.4	4.7	3.560	3.940	3.248	4
16	mix	0	0.000	0.010	0.070	0.000	Undefined	Undefined	Undefined	4.7	4.730	5.041	4.455	2

Table A3: Raw data of all lineups when evaluated by African-Caribbean mock witnesses.

Key to tables A1 – A3: Lineup race; we = white European; ac = African-Caribbean; mix = mixed race. N suspect = the number of mock witnesses who chose the suspect; Prop. Choose = the proportion of mock witnesses who chose the suspect; Binomial prob. = the binomial probability that the proportion of mock witnesses who chose the suspect differs from that expected by chance (1/9); Prop. 95% upper/lower = the maximum and minimum endpoints of the 95% confidence interval of Prop. Choose. FS = functional size; FS 95% upper/ lower = the maximum/minimum endpoint of the 95% confidence interval of FS; E = Tredoux's E; E 95% upper/ lower = the maximum/minimum endpoint of the 95% confidence interval of E; Visual features = number of useful visible features mentioned in the witness's first description.