

Table S1: Akaike information criterion (AIC) comparison of linear mixed model analysis. Within the model analysis, contrast sensitivity (CS) figured as numeric dependent variable, with participants (subjects, n=19) as random effect and four within-subject factors: Refractive group (Group; non-myopes with a refractive spherical equivalent >-0.5 D and myopes with a refractive spherical equivalent ≤ -0.5 D), stimuli type (ST; Achromatic, S-, M- and L-cone), spatial frequency (SF; 3 cpd and 12 cpd), diffusion level (D; control/without diffusion, 0.4 and 0.8 Bangerter foil each with a clear aperture of 8.0 mm) and adaptation time (Time; $T_0 - 0$ min, $T_{30} - 30$ min and $T_{90} - 90$ min).

Model	Absolute AIC	Relative AIC
One factor; without interactions		
CS~Group,random=~1 Subject	1445.40	8.08
CS~ST,random=~1 Subject	850.40	4.75
CS~SF,random=~1 Subject	1122.62	6.27
CS~D,random=~1 Subject	1443.36	8.07
CS~Time,random=~1 Subject	1429.05	7.99
Two factors; without interactions		
CS~Group+ST,random=~1 Subject	852.40	4.76
CS~Group+SF,random=~1 Subject	1124.62	6.29
CS~Group+D,random=~1 Subject	1445.36	8.08
CS~Group+Time,random=~1 Subject	1431.05	8.00
CS~ST+SF,random=~1 Subject	230.24	1.29
CS~ST+D,random=~1 Subject	847.88	4.74
CS~ST+Time,random=~1 Subject	819.68	4.58
CS~SF+D,random=~1 Subject	1120.08	6.26
CS~SF+Time,random=~1 Subject	1108.21	6.19
CS~D+Time,random=~1 Subject	1429.01	7.99
Two factors; with interactions		
CS~Group*ST,random=~1 Subject	856.29	4.79
CS~Group*SF,random=~1 Subject	1123.38	6.28
CS~Group*D,random=~1 Subject	1444.56	8.07
CS~Group*Time,random=~1 Subject	1434.00	8.01
CS~ST*SF,random=~1 Subject	232.05	1.30
CS~ST*D,random=~1 Subject	852.04	4.76
CS~ST*Time,random=~1 Subject	825.55	4.61
CS~SF*D,random=~1 Subject	1123.64	6.28
CS~SF*Time,random=~1 Subject	1109.94	6.20
CS~D*Time,random=~1 Subject	1436.62	8.03
Three factors; without interaction		
CS~Group+ST+SF,random=~1 Subject	232.24	1.30
CS~Group+ST+D,random=~1 Subject	849.88	4.75
CS~Group+ST+Time,random=~1 Subject	821.68	4.59
CS~Group+SF+D,random=~1 Subject	1122.08	6.27
CS~Group+SF+Time,random=~1 Subject	1110.21	6.20
CS~Group+D+Time,random=~1 Subject	1431.01	8.00
CS~ST+SF+D,random=~1 Subject	220.73	1.23
CS~ST+SF+Time,random=~1 Subject	188.80	1.06
CS~ST+D+Time,random=~1 Subject	817.04	4.57
CS~SF+D+Time,random=~1 Subject	1105.67	6.18
Three factors; with interactions		
CS~Group*ST*SF,random=~1 Subject	233.14	1.30
CS~Group*ST*D,random=~1 Subject	864.05	4.83
CS~Group*ST*Time,random=~1 Subject	841.53	4.70
CS~Group*SF*D,random=~1 Subject	1126.87	6.30
CS~Group*SF*Time,random=~1 Subject	1117.95	6.25
CS~Group*D*Time,random=~1 Subject	1447.80	8.09
CS~ST*SF*D,random=~1 Subject	229.86	1.28
CS~ST*SF*Time,random=~1 Subject	197.48	1.10
CS~ST*D*Time,random=~1 Subject	852.09	4.76
CS~SF*D*Time,random=~1 Subject	1124.88	6.29
Four factors; without interaction		
CS~Group+ST+SF+D,random=~1 Subject	222.73	1.24
CS~Group+ST+SF+Time,random=~1 Subject	190.80	1.07
CS~Group+ST+D+Time,random=~1 Subject	819.04	4.58
CS~Group+SF+D+Time,random=~1 Subject	1107.67	6.19
CS~ST+SF+D+Time,random=~1 Subject	178.92	1.00
Four factors; with interaction		
CS~Group*ST*SF*D,random=~1 Subject	244.29	1.37
CS~Group*ST*SF*Time,random=~1 Subject	217.87	1.22
CS~Group*ST*D*Time,random=~1 Subject	899.87	5.03
CS~Group*SF*D*Time,random=~1 Subject	1149.28	6.42
CS~ST*SF*D*Time,random=~1 Subject	234.31	1.31
Five factors; without interaction		
CS~Group+ST+SF+D+Time,random=~1 Subject	180.92	1.01
Five factors; with interaction		
CS~Group*ST*SF*D*Time,random=~1 Subject	1395.24	7.80