**Figure 4—source data 1. Statistics**

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| --- | --- | --- | --- | --- | --- | --- |
| **Panel** | **Comparison**  | **Mean & SEM** | **Test** | **Statistic** | **p-value** | **Correction** |
| C | d-prime for - Hit vs. Error - Orientation vs. Phase(61 and 46 units for orientation and phase respectively) | Orientation Hit: 0.404 ± 0.078Orientation Error: -0.093 ± 0.138Phase Hit: 0.325 ± 0.098Phase Error: 0.158 ± 0.131 | LME: *dprime ~ 1 + Response + Task + (1|Unit) + (1|Session) + (1|Mouse)* | **Main:**Resp.: F(1,191) = 10.43Task: F(1,191) = 0.52**Post Hoc:** Resp. (Orientation) F(1, 101) = 11.09Resp. (Phase)F(1, 89) = 1.07 | **Main:**0.001 \*\*0.473**Post-Hoc :**0.001 \*\*0.303 | None |