| Experiment | Completion Rate | Energy per Order | Total Energy | Signal Switches | Stop-Go Events | Completed Orders |
| --- | --- | --- | --- | --- | --- | --- |
| K\_EVAL\_queue\_based | 91.40% | 54 | 35,764 | 12,702 | 17,035 | 659 |
| F\_EVAL\_nerl\_step\_b8000ticks | 91.27% | 33 | 21,621 | 12,758 | 16,396 | 659 |
| I\_EVAL\_dqn\_step\_55000 | 90.78% | 50 | 33,764 | 12,755 | 17,421 | 679 |
| D\_EVAL\_nerl\_global\_b3000ticks | 90.68% | 44 | 28,718 | 12,203 | 16,489 | 652 |
| B\_EVAL\_nerl\_step\_b3000ticks | 90.57% | 51 | 33,013 | 12,278 | 16,885 | 653 |
| C\_EVALnerl\_global\_a3000ticks | 89.94% | 51 | 32,745 | 12,033 | 16,793 | 644 |
| J\_EVAL\_dqn\_global\_55000 | 89.90% | 60 | 38,996 | 12,575 | 17,266 | 650 |
| G\_EVALnerl\_global\_a8000ticks\_ | 89.57% | 49 | 32,044 | 12,201 | 16,563 | 653 |
| E\_EVAL\_nerl\_step\_a8000ticks | 89.42% | 41 | 26,047 | 12,251 | 17,071 | 642 |
| H\_EVAL\_nerl\_global\_b8000ticks | 89.20% | 46 | 29,182 | 11,856 | 16,234 | 636 |
| L\_EVAL\_time\_based | 88.56% | 45 | 28,027 | 9,900 | 17,783 | 627 |
| A\_EVAL\_nerl\_step\_a3000ticks | 84.51% | 57 | 25,013 | 8,201 | 11,743 | 442 |

**Table 4.3.1: Comprehensive Comparison of Final Validation Performance for All Experimental Groups**