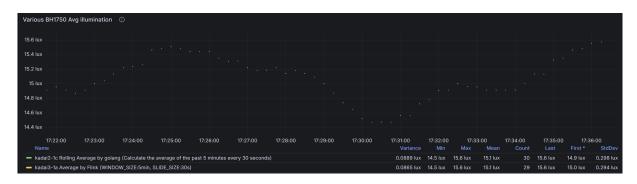
## Kadai3-2(e) Comparison of Different Rolling Average Methods

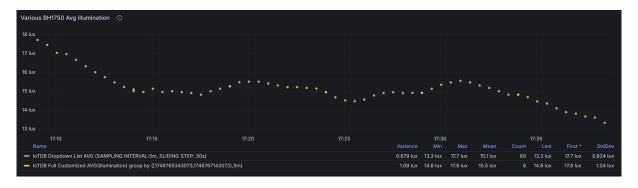
## 1 Go Implementation vs. Flink Rolling Window Average

The lines from both methods almost overlap. This proves that the rolling average calculated in Go is basically the same as Flink's window average. Any small differences are mainly because the window start times are different.



## 2 IoTDB Dropdown List AVG vs. Full Customized AVG

- Dropdown List AVG uses a sliding window: it calculates the average every 30 seconds for the past 5 minutes.
- Full Customized AVG uses a tumbling window: it calculates the average once every 5 minutes only.



## 3 Flink vs. IoTDB Dropdown List AVG

- The main difference is the **window start time**. So, the lines are offset by one SLIDING STEP (like 30 seconds).
- Flink's window is left-closed, right-open [start, end); it counts 59 points in 30 minutes, but IoTDB counts 60 because it includes the endpoint.
- Because of this, the peaks and valleys do not line up exactly on the time axis.

