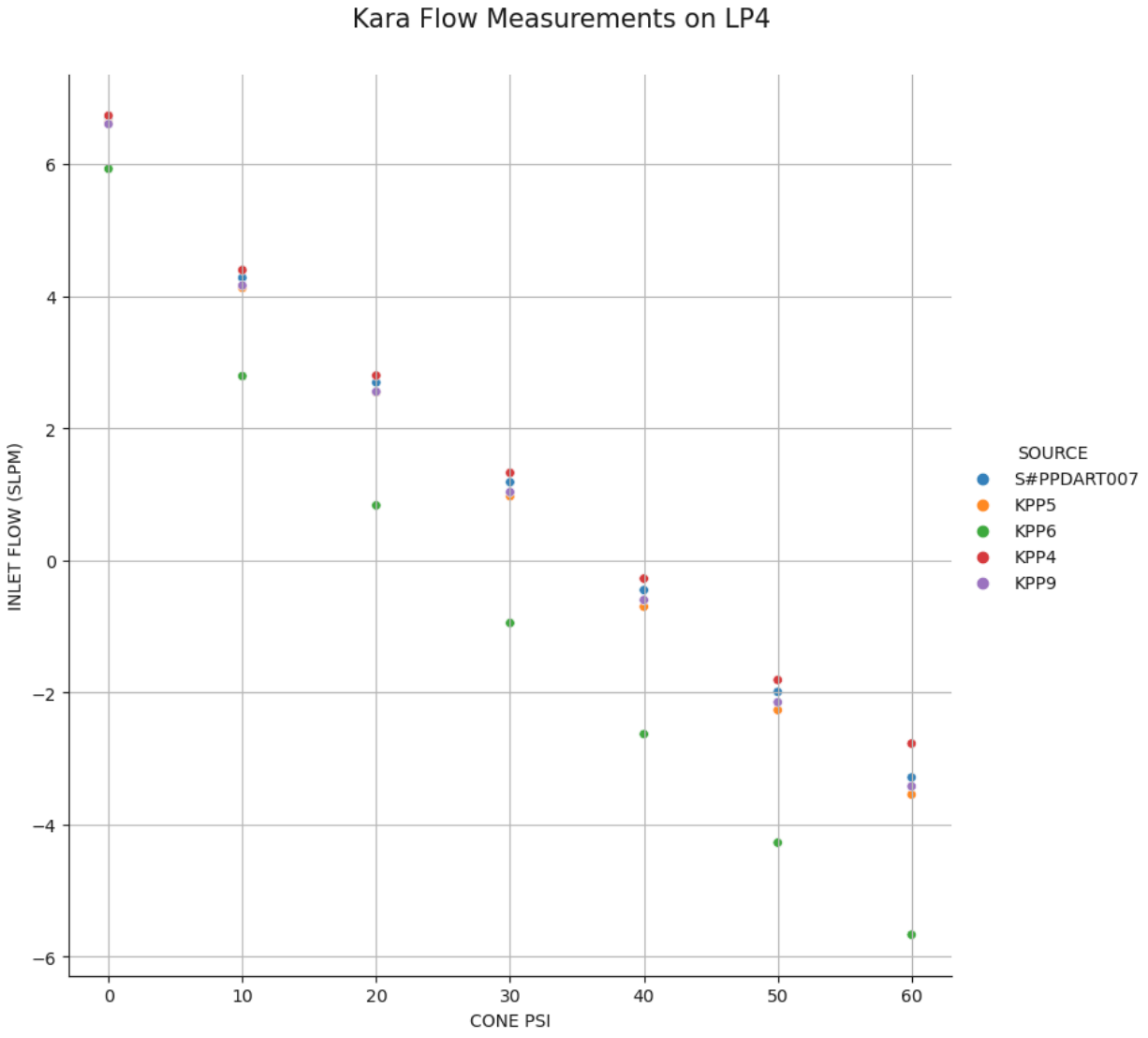
Task: Get all KPPS with green stickers on them and measure inlet flow

Parameters:

- Using LP4 system (Kapton Hat installed and leak free)
- Exhaust on for all measurements
- Temp. @ 50degC
- 70mm tube
- NO gap b/w cone and tube
- Measure flow @ (0,10,20,30,40,50, & 60) psi

In [34]:
```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
import os

fn = 'SourceFlowData112624.csv'

df = pd.read_csv(fn)
print(df.columns)

fig = sns.relplot(df,x = 'CONE PSI',y='INLET FLOW (SLPM)', hue='SOURCE', kind = "scatt
plt.suptitle('Kara Flow Measurements on LP4',y=1.05, fontsize = 15)

# Access the legend texts and title
legend_texts = fig._legend.get_texts()
legend_title = fig._legend.get_title()

# Set the font size for legend labels and title
plt.setp(legend_texts, fontsize='10')
plt.setp(legend_title, fontsize='10')

fig.set_axis_labels("CONE PSI", "INLET FLOW (SLPM)", fontsize=10)

for ax in fig.axes.flatten():
    ax.grid()
    ax.tick_params(labelsize=10)

fig.savefig(os.path.join(os.path.split(fn)[0],"Kara Flow Measurements on LP4"),dpi=300
```

```
Index(['CONE PSI', 'INLET FLOW (SLPM)', 'SOURCE'], dtype='object')
```


Kara Flow Measurements on LP4
INLET FLOW (SLPM)
CONE PSI
SOURCE
S#PPDART007
KPP5
KPP6
KPP4
KPP9
6
4
2
0
−2
−4
−6
0
10
20
30
40
50
60

In [ ]: