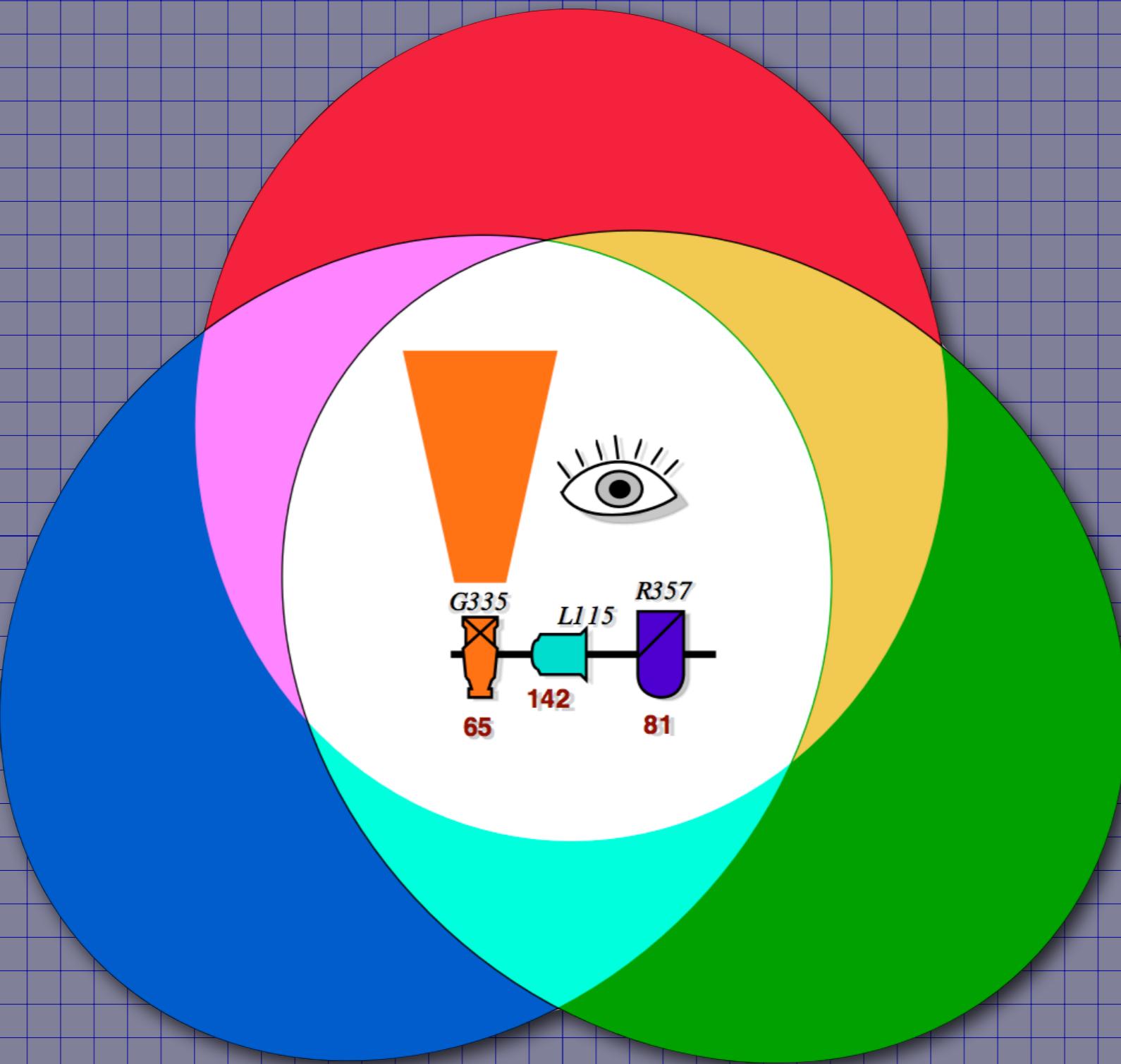


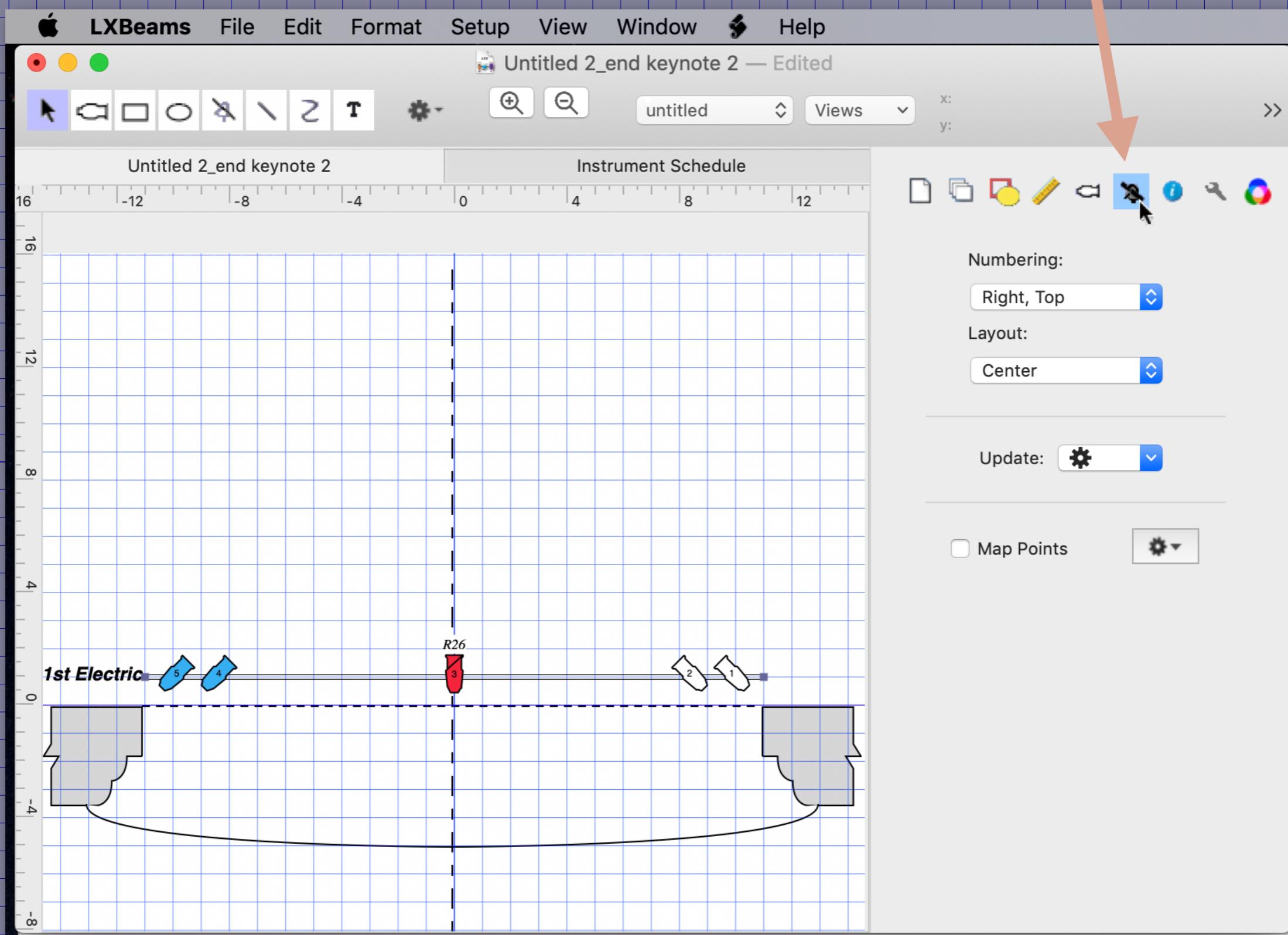
Object Relationships 2



IATSE 728 Workshop 2020

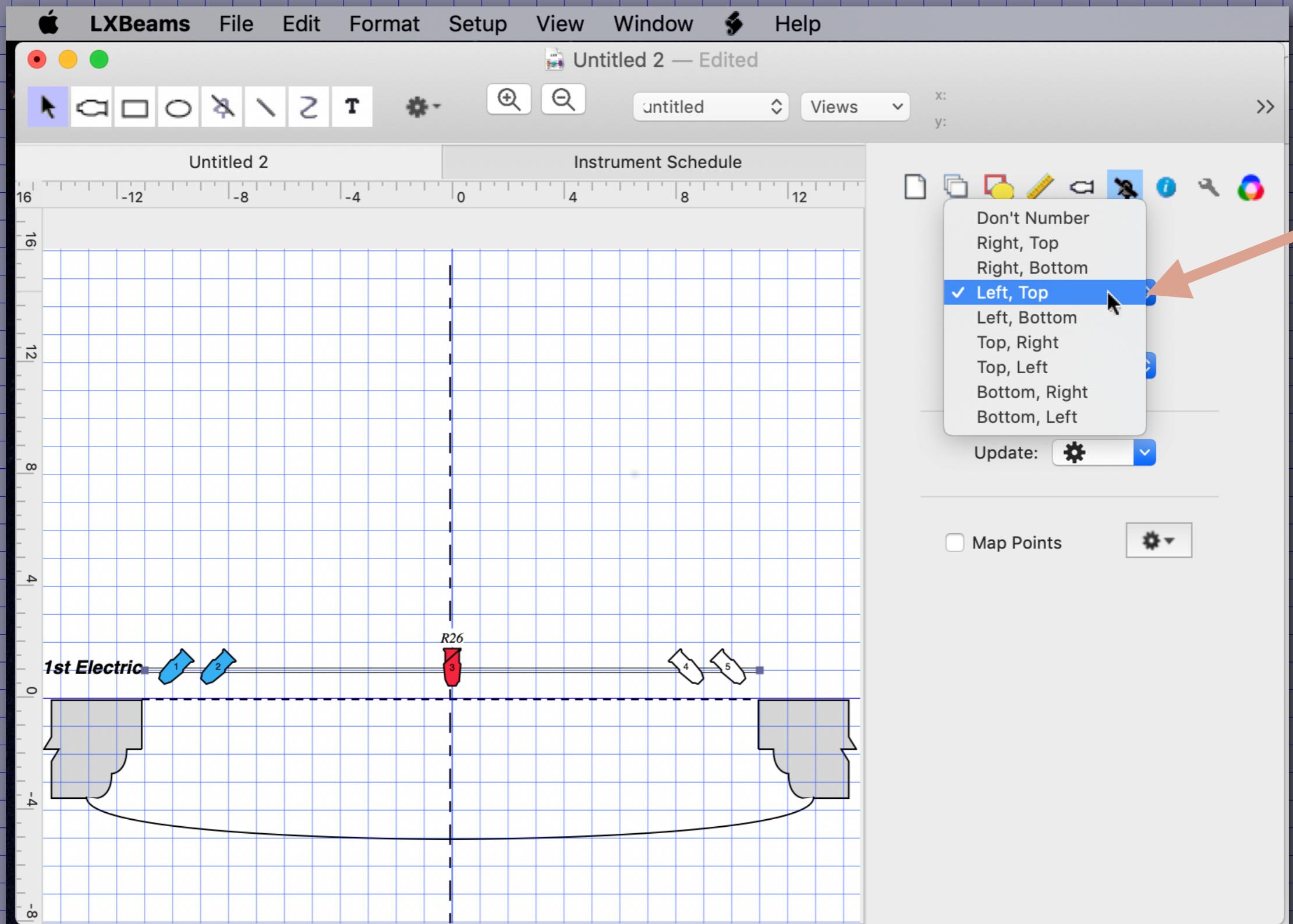
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Select the position and then, the Inspector's Position tab.



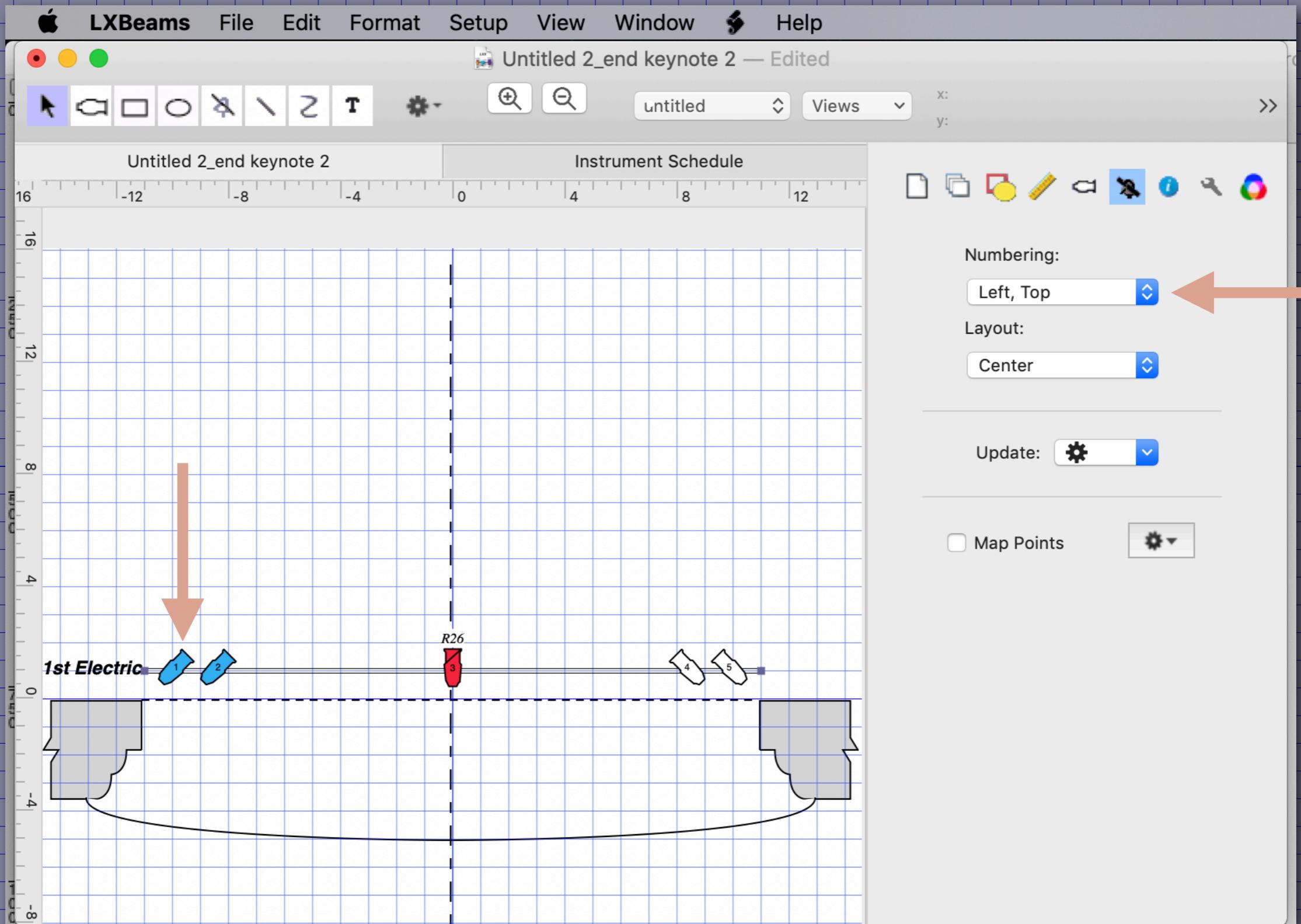
The position tab has controls for setting its properties.

Try changing the way the position numbers its lights.

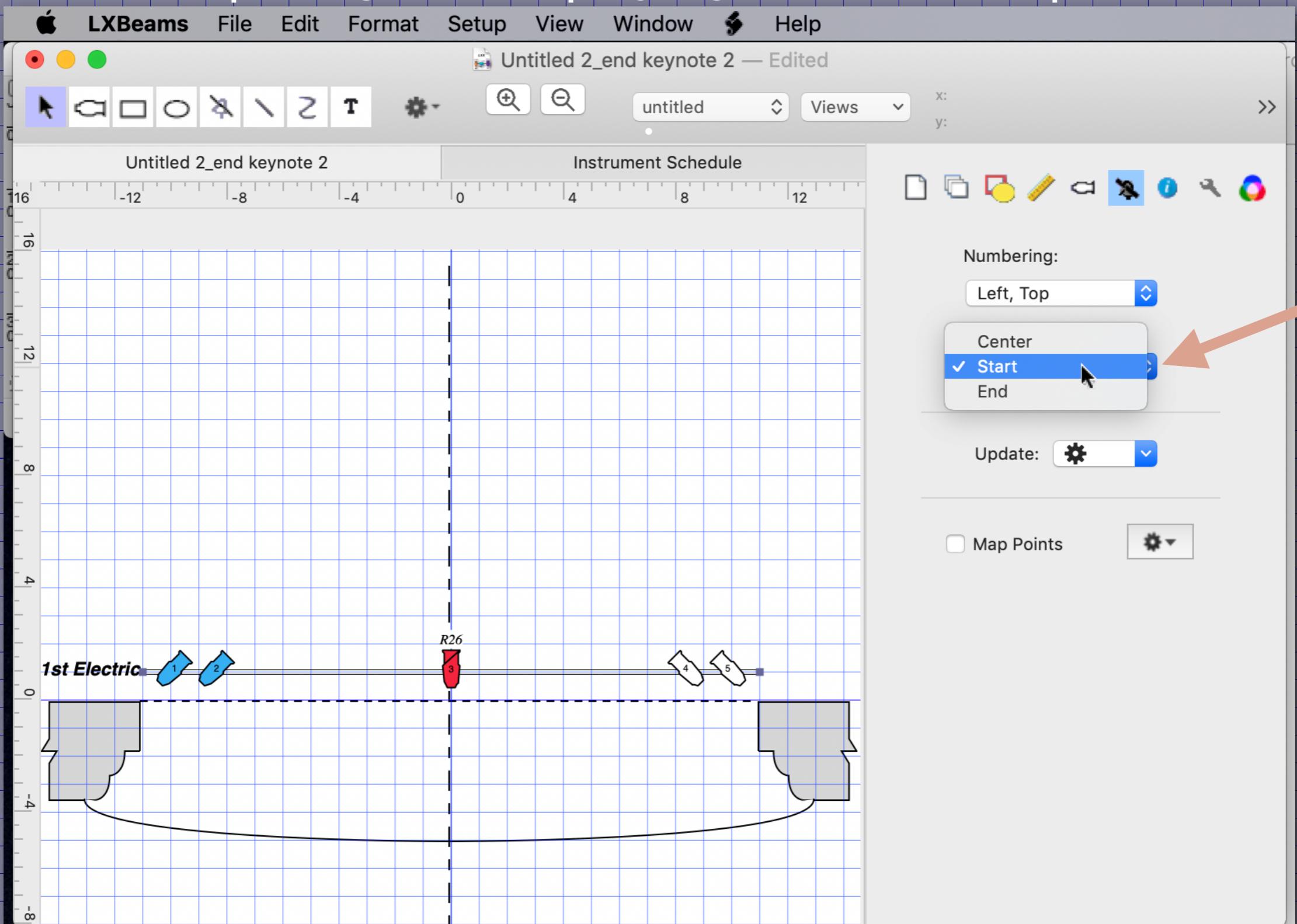


There are horizontal and vertical options. Because the line is horizontal, change to left to see a difference

The number one light is now on the left.

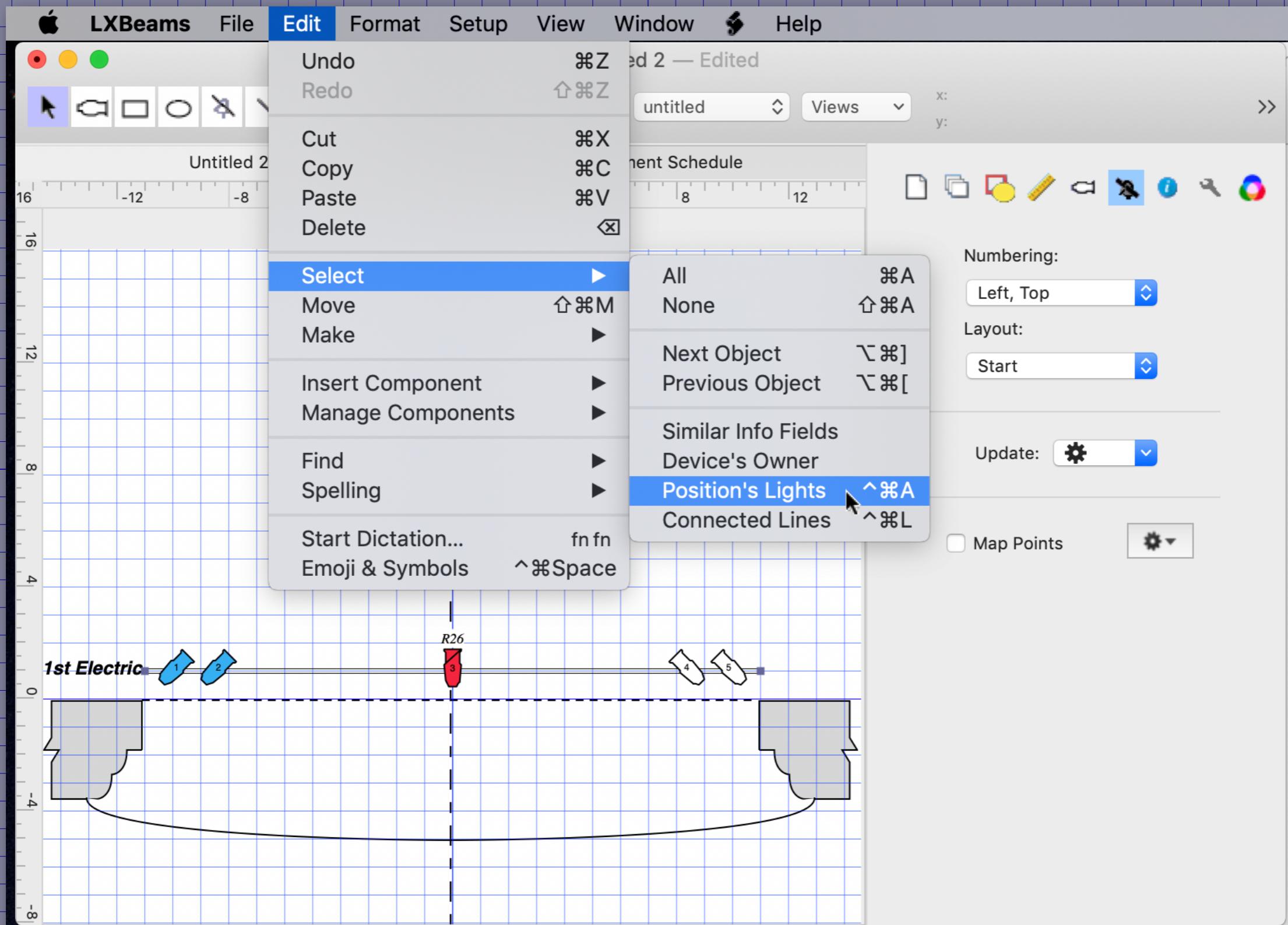


Layout determine's the position's reference point For spacing and displaying location in reports.



You can select "Start" but it won't make a difference in how lines snap into place because the center and end points are aligned to the grid.

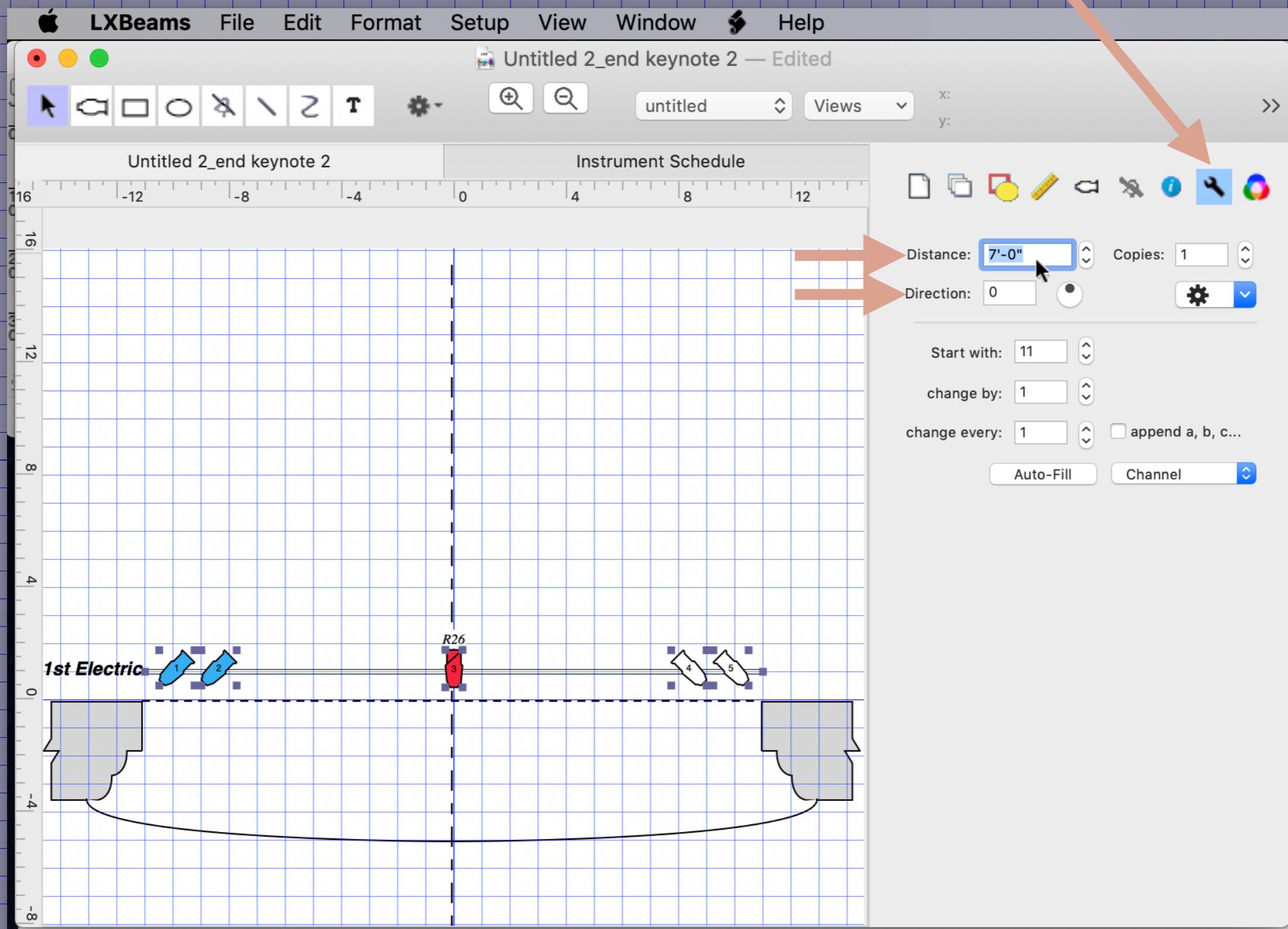
Select all the lights on the position (there's a command for that).



Cmd-A is Select All on most Mac applications.

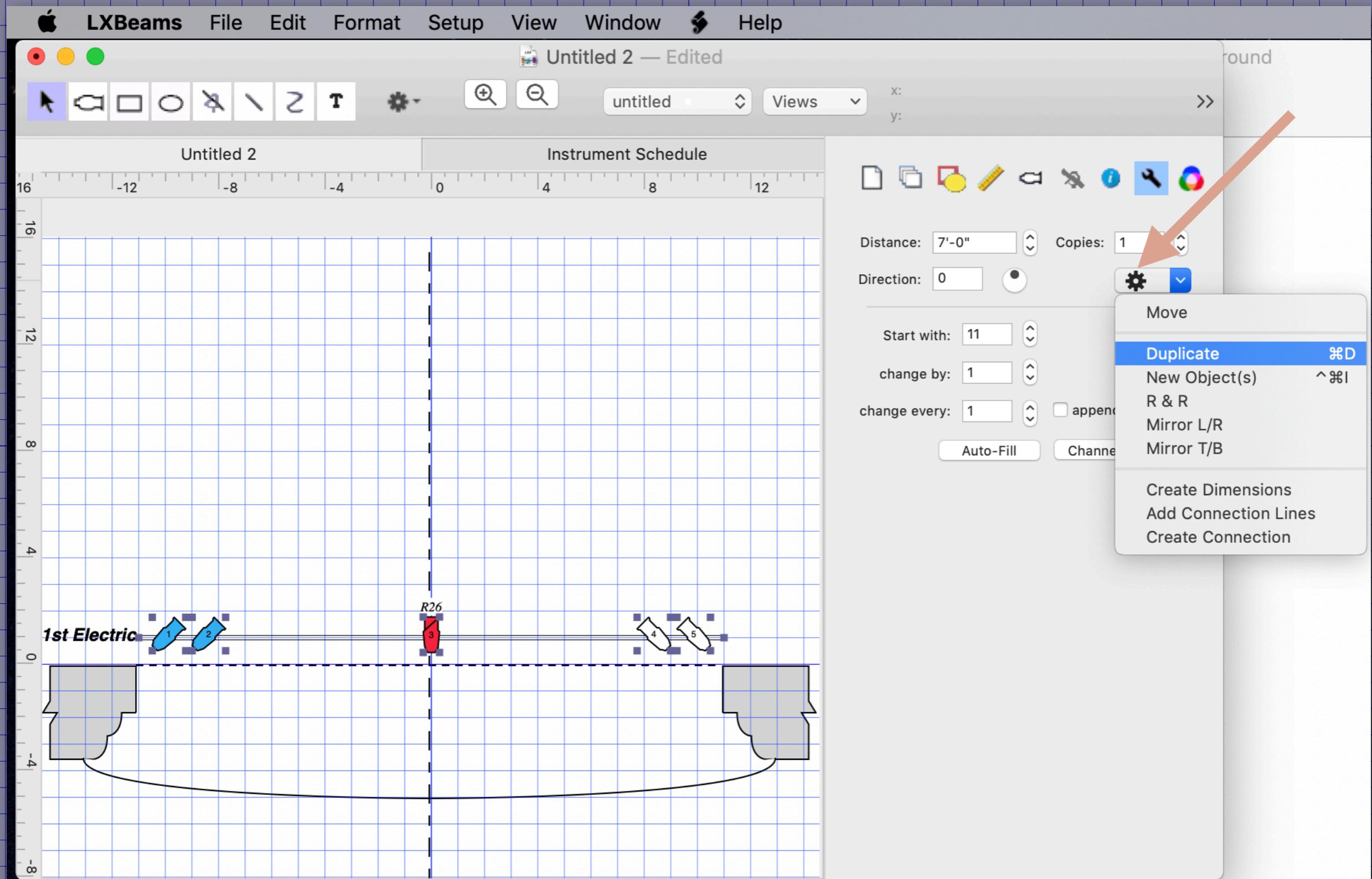
The shortcut for selecting a position's lights is control+Cmd-A

Switch to the Inspector's Tools tab.

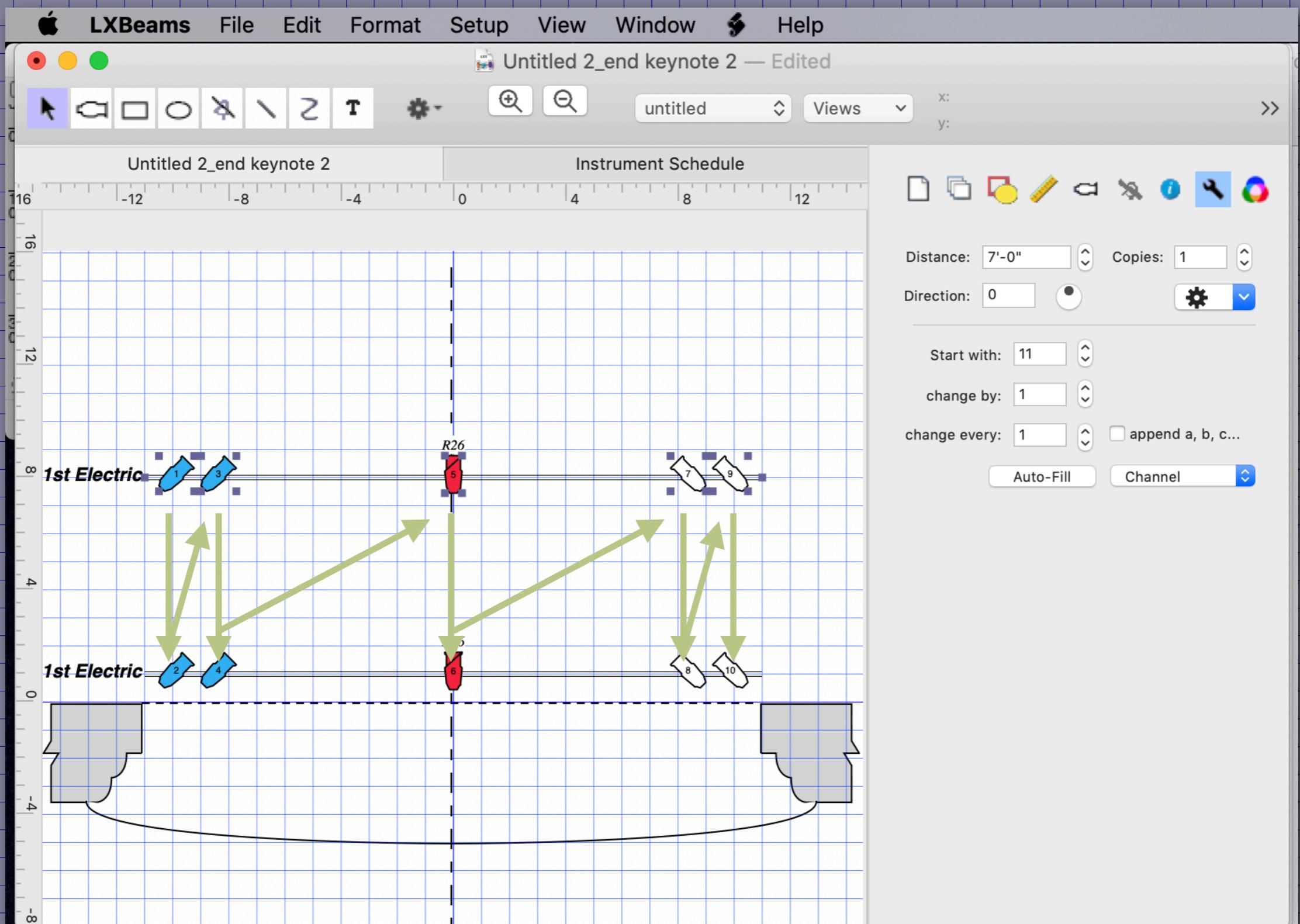


Change the distance to 7'-0".
Change the direction to 0°.

Select Duplicate from the popup menu.



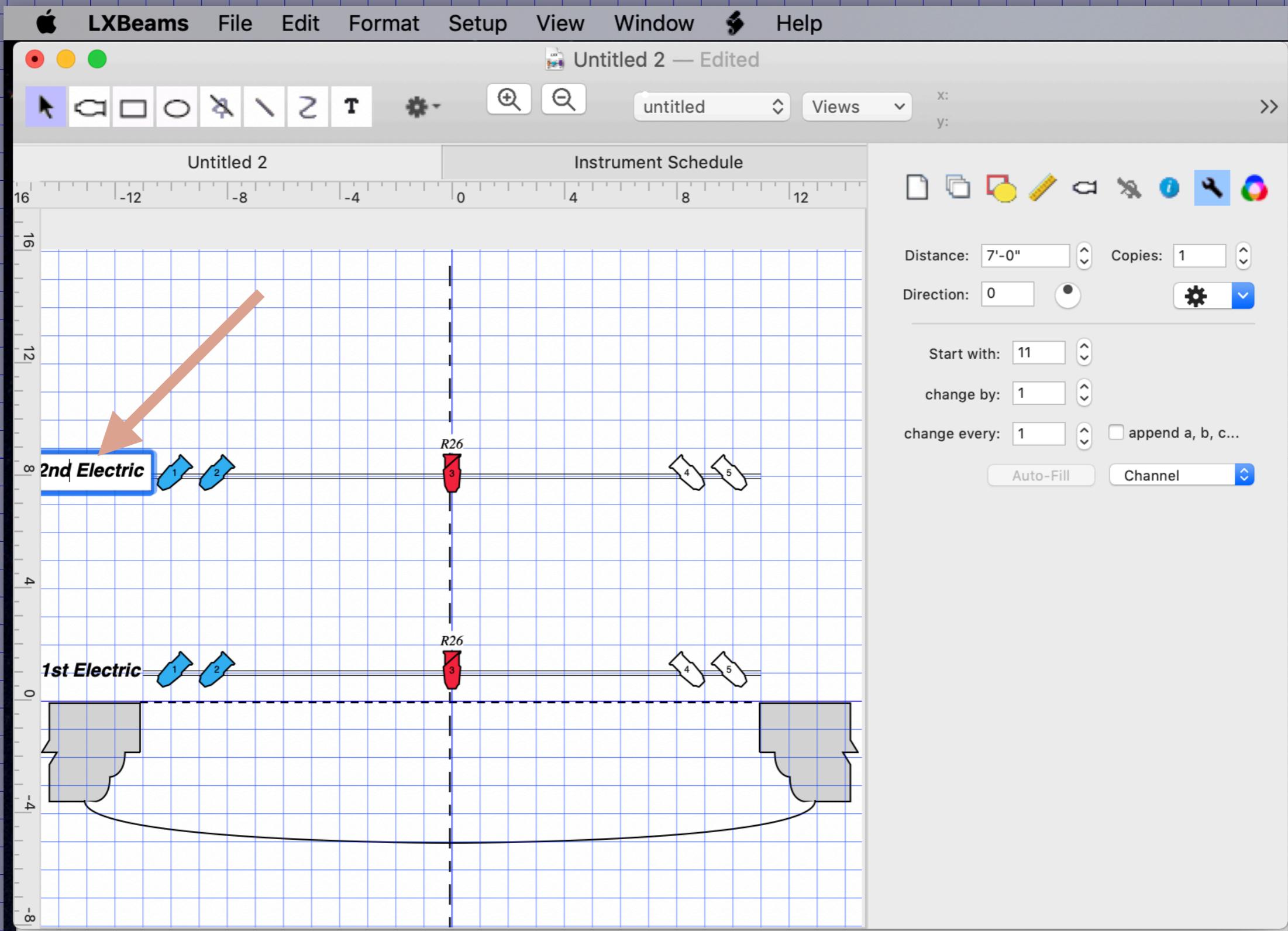
Numbering can continue on positions with multiple segments having the same name.



With Left/Top numbering numbers start from the left.

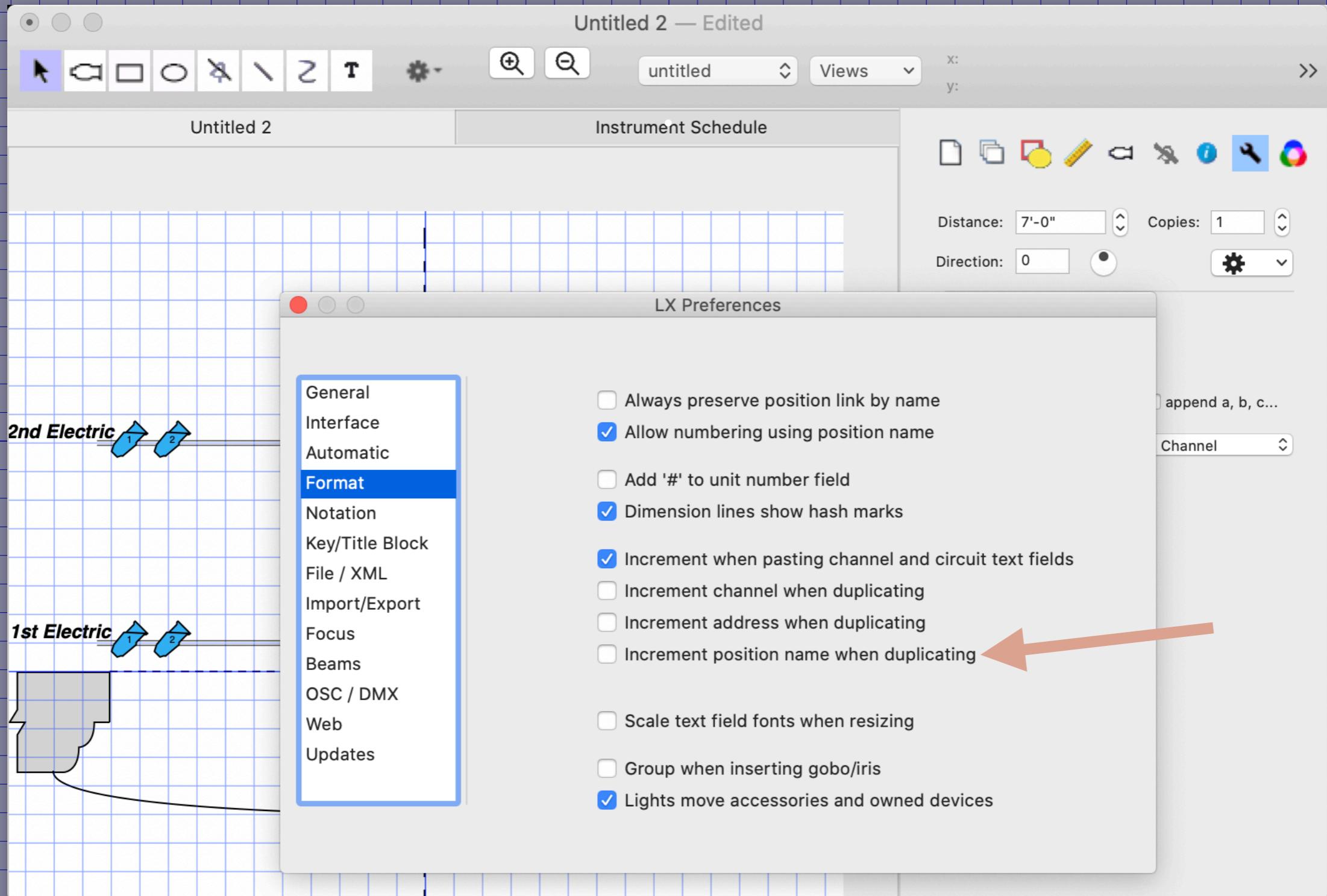
But if two lights have the same horizontal position, they are numbered top to bottom

Double-click the name field to change it.



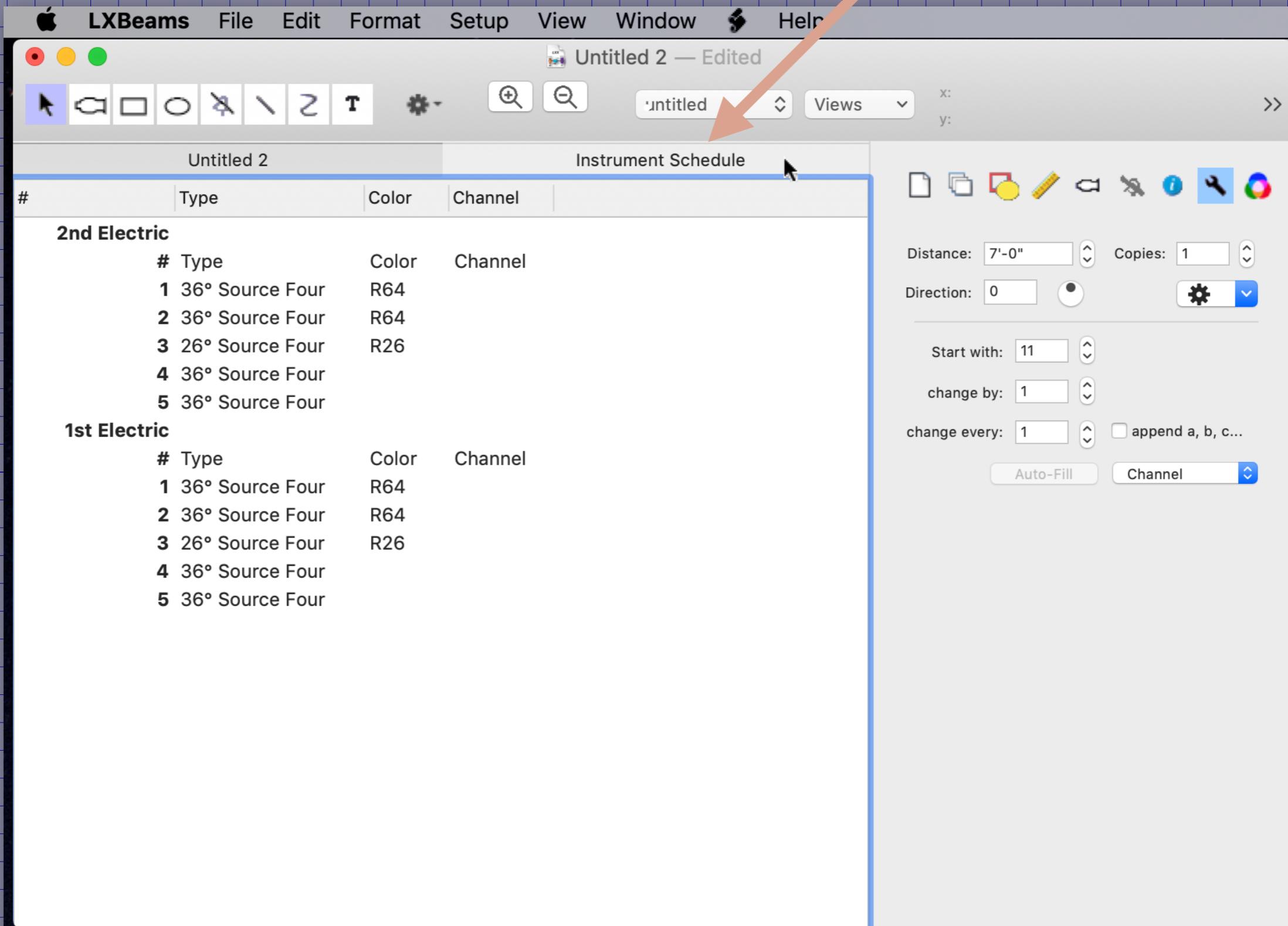
Change "1st Electric" to "2nd Electric".

FYI: LXBeams has a setting to number positions automatically when duplicating them.



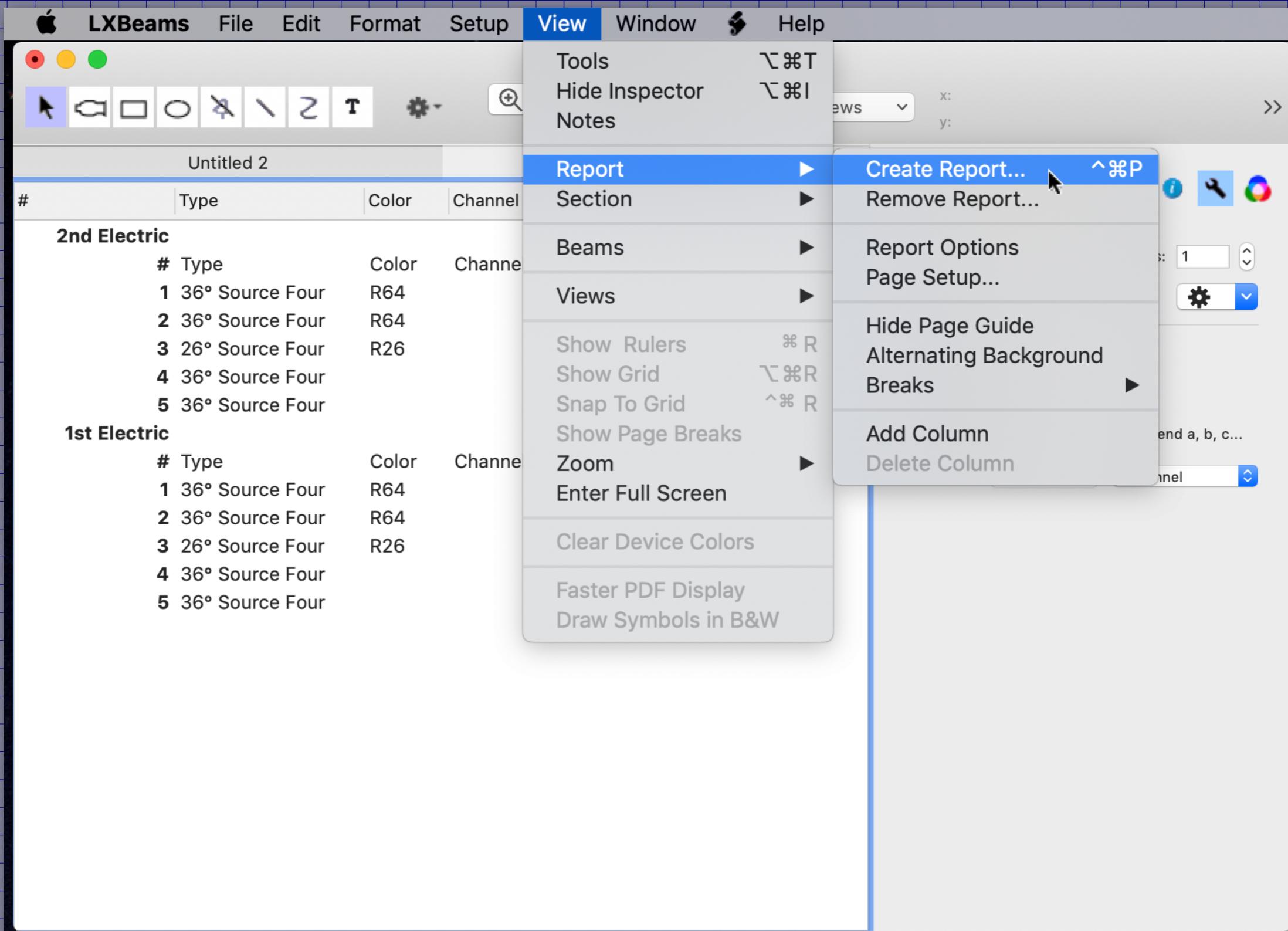
LXBeams->Preferences, select Format Tab.

Click on the Instrument Schedule tab.



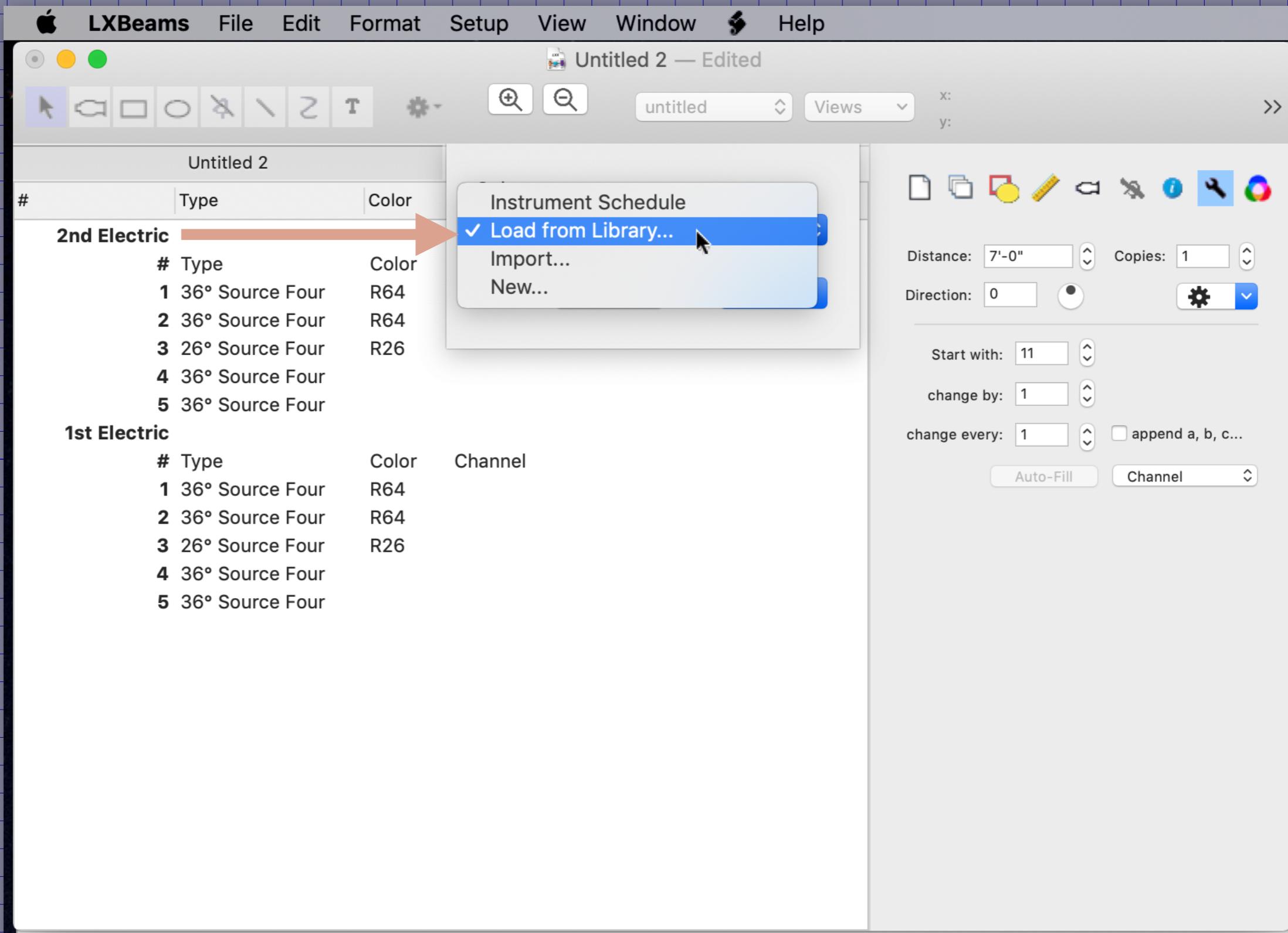
Positions are listed in their drawing order
(the opposite of what's desired).

The order of positions is controlled by the positions report.



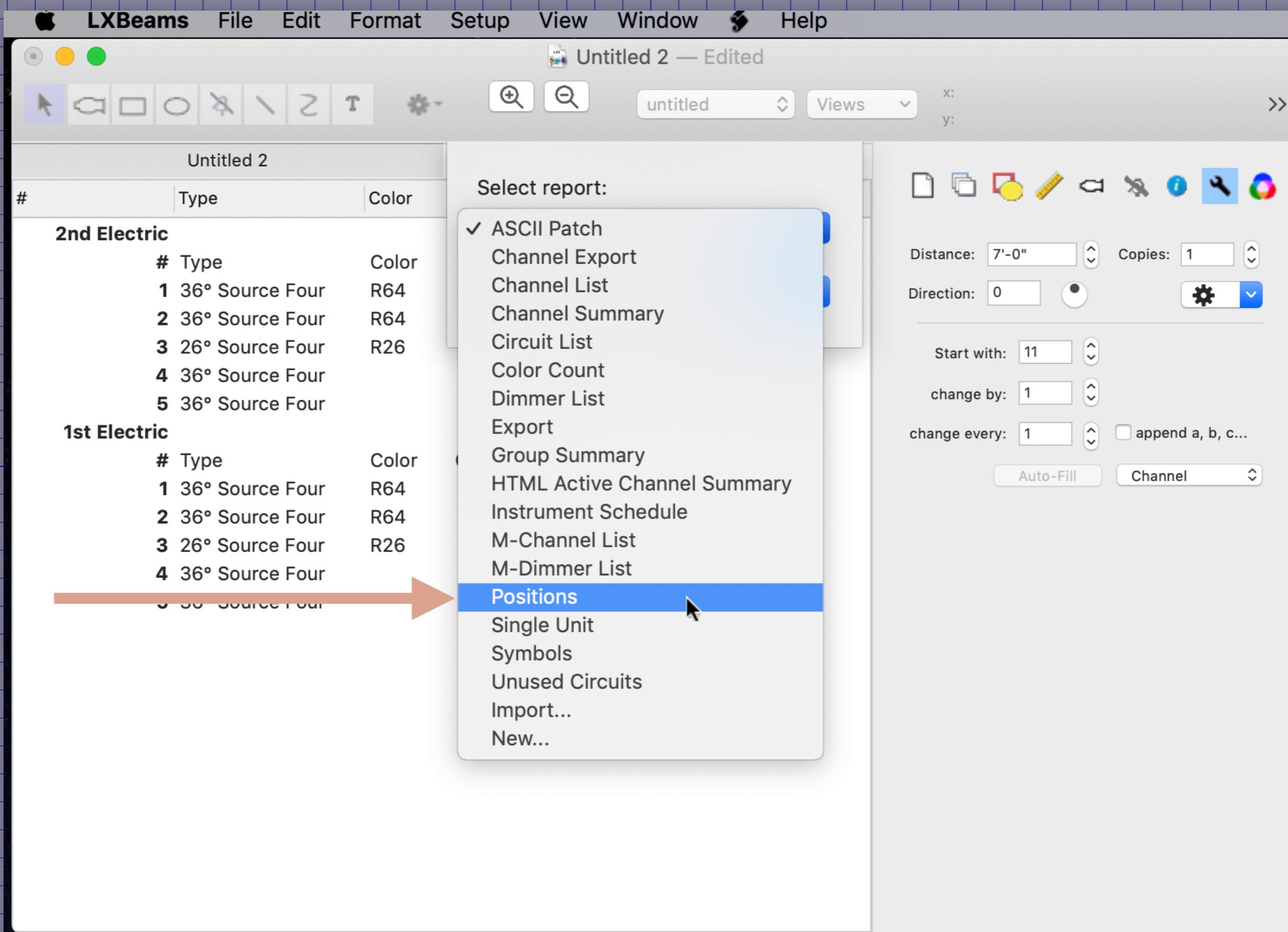
Choose View→Report→Create Report.

Choose “Load from Library...” From the popup.

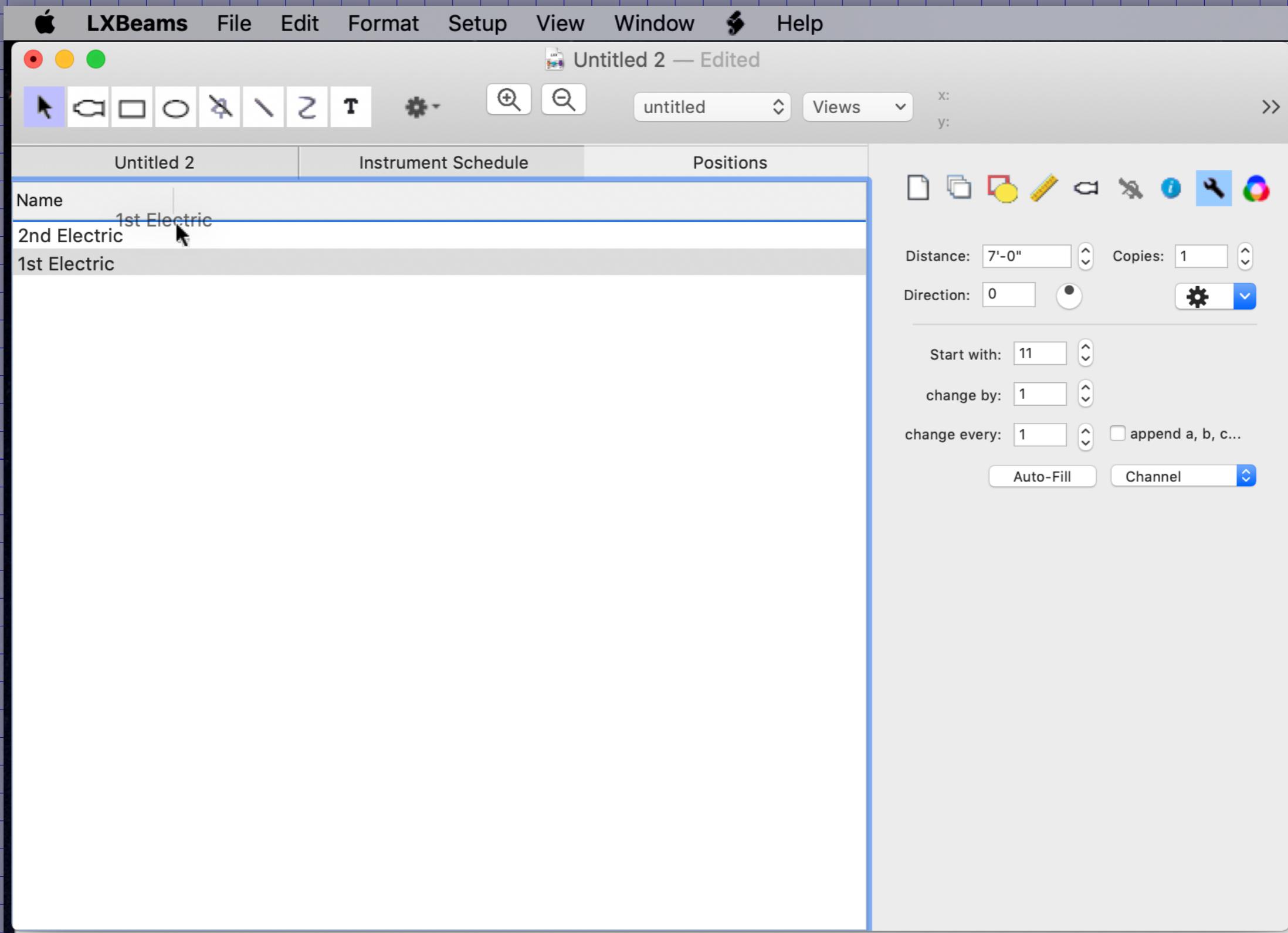


There is now an instrument schedule created so it appears in the list.

Next, select Positions from the list of reports available.



Click and drag the "1st Electric" row to to the top.



There should be a highlight where the row will move to.

Click back to the Instrument Schedule.

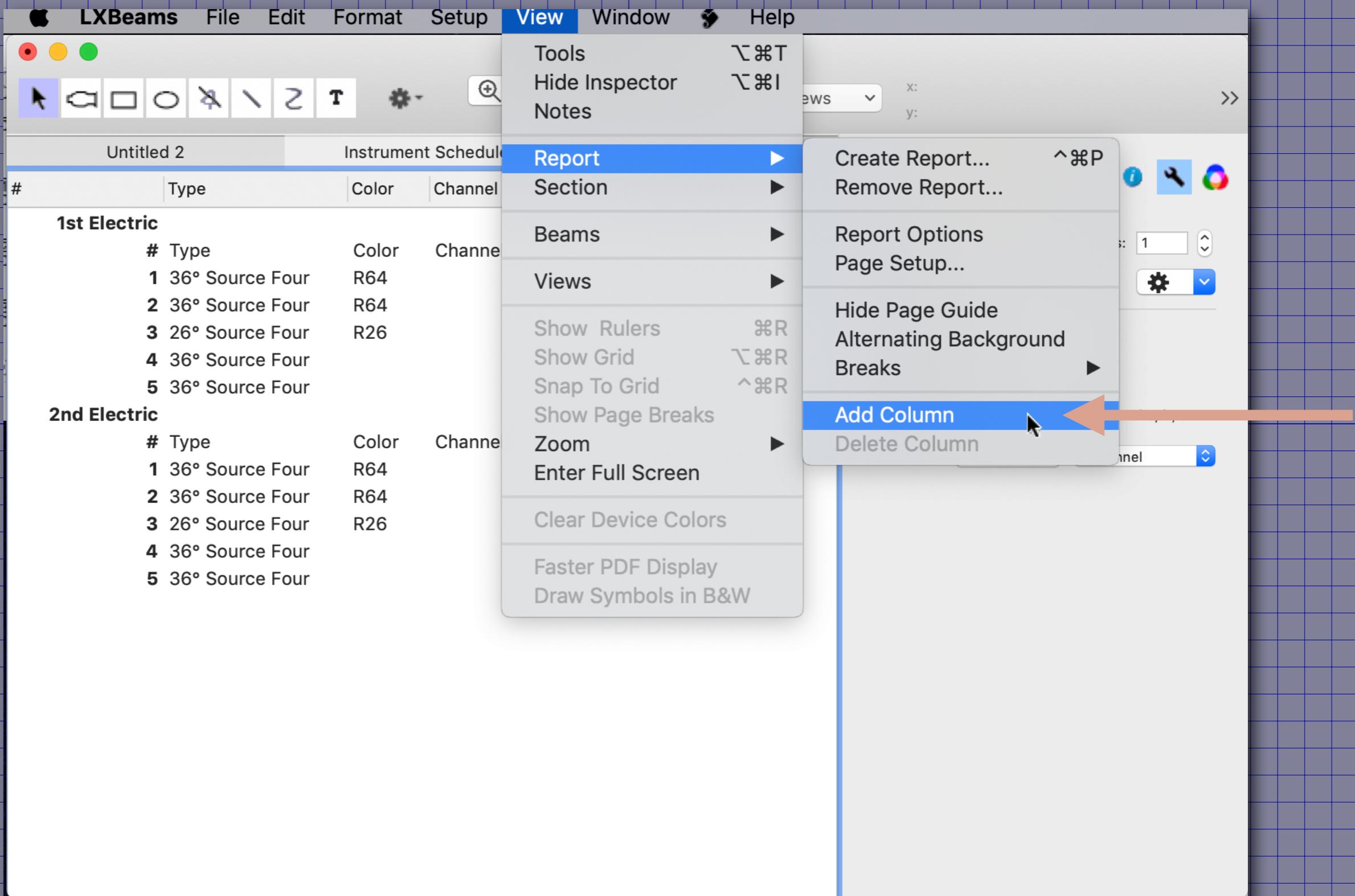
The screenshot shows the LXBeams application window. The menu bar includes Apple, LXBeams, File, Edit, Format, Setup, View, Window, Help. The title bar says Untitled 2 — Edited. The toolbar has icons for selection, zoom, search, and views. The main area has tabs: Untitled 2, Instrument Schedule (selected), and Positions. The Positions tab contains a table:

| # | Type | Color | Channel |
|---------------------|-----------------|-------|---------|
| 1st Electric | | | |
| 1 | 36° Source Four | R64 | |
| 2 | 36° Source Four | R64 | |
| 3 | 26° Source Four | R26 | |
| 4 | 36° Source Four | | |
| 5 | 36° Source Four | | |
| 2nd Electric | | | |
| 1 | 36° Source Four | R64 | |
| 2 | 36° Source Four | R64 | |
| 3 | 26° Source Four | R26 | |
| 4 | 36° Source Four | | |
| 5 | 36° Source Four | | |

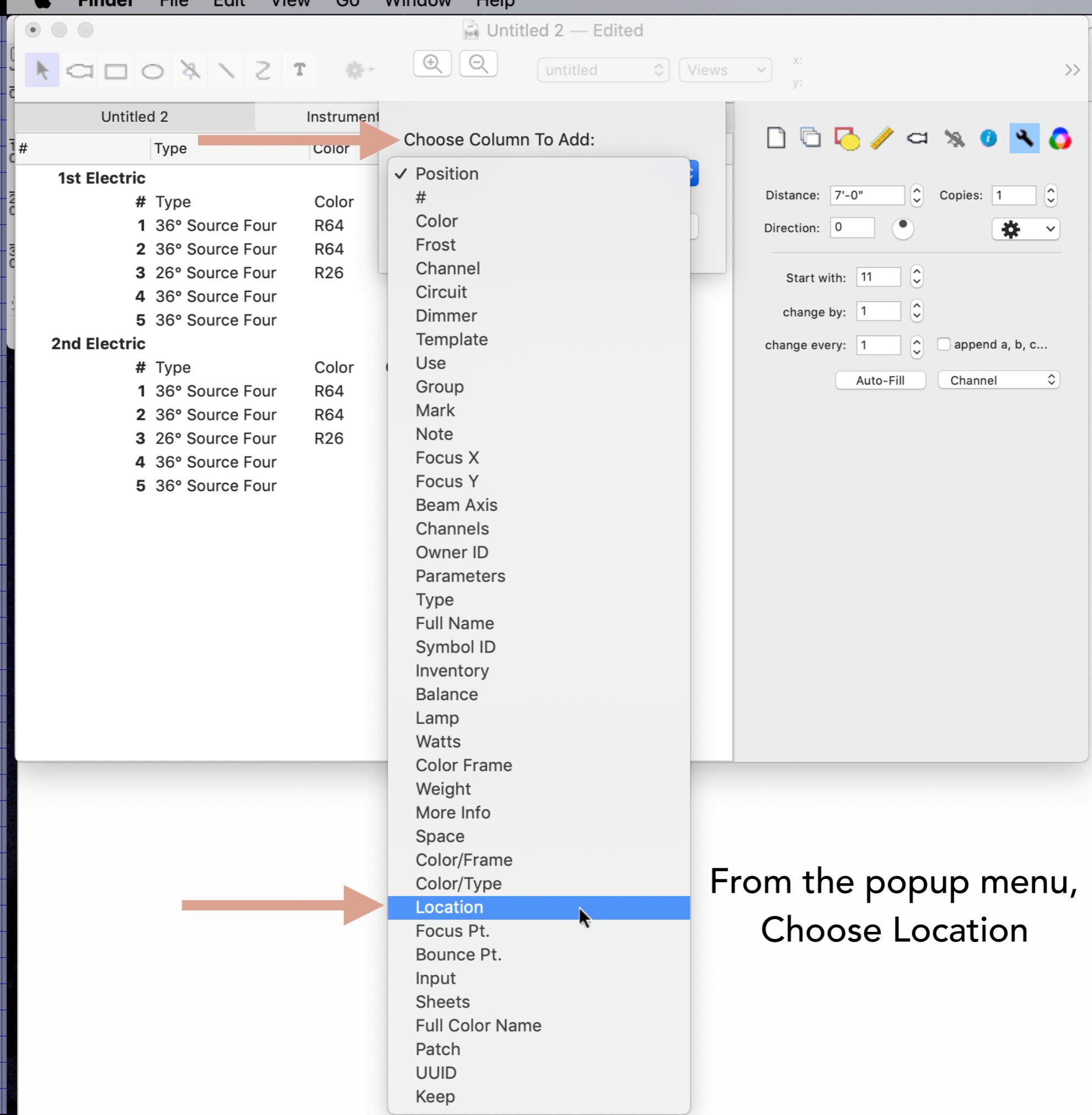
To the right is a tool palette with icons for file operations, color selection, and other tools. Below it are settings for distance (7'-0"), copies (1), direction (0), start with (11), change by (1), and change every (1). There is also an "append a, b, c..." checkbox, an Auto-Fill button, and a Channel dropdown.

The positions are now in the desired order.

To see how a position's Layout property works,
add a column to the Instrument Schedule.

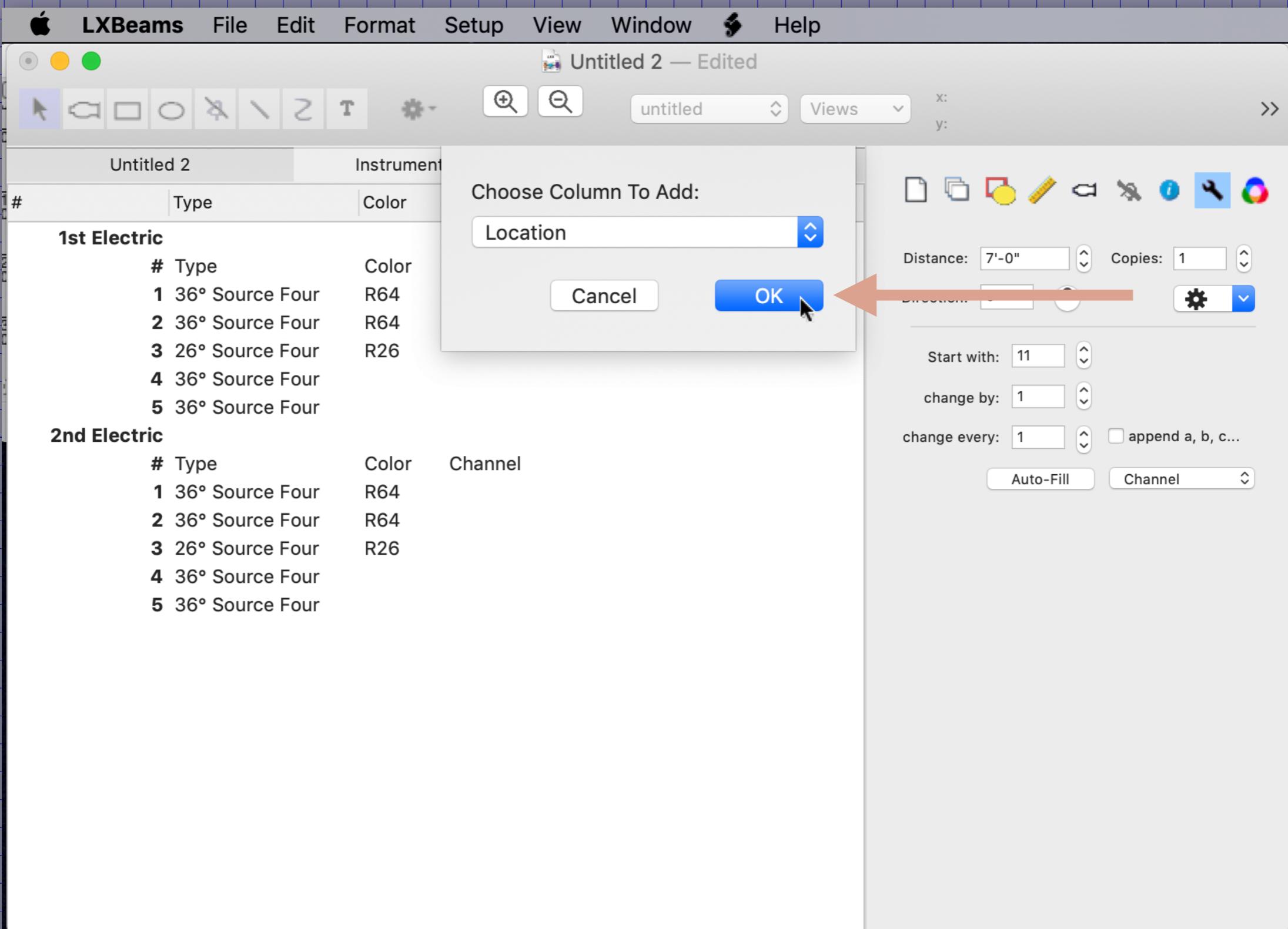


Choose View→Report→Add Column.



From the popup menu,
Choose Location

Click OK



This is the result showing Layout from start.

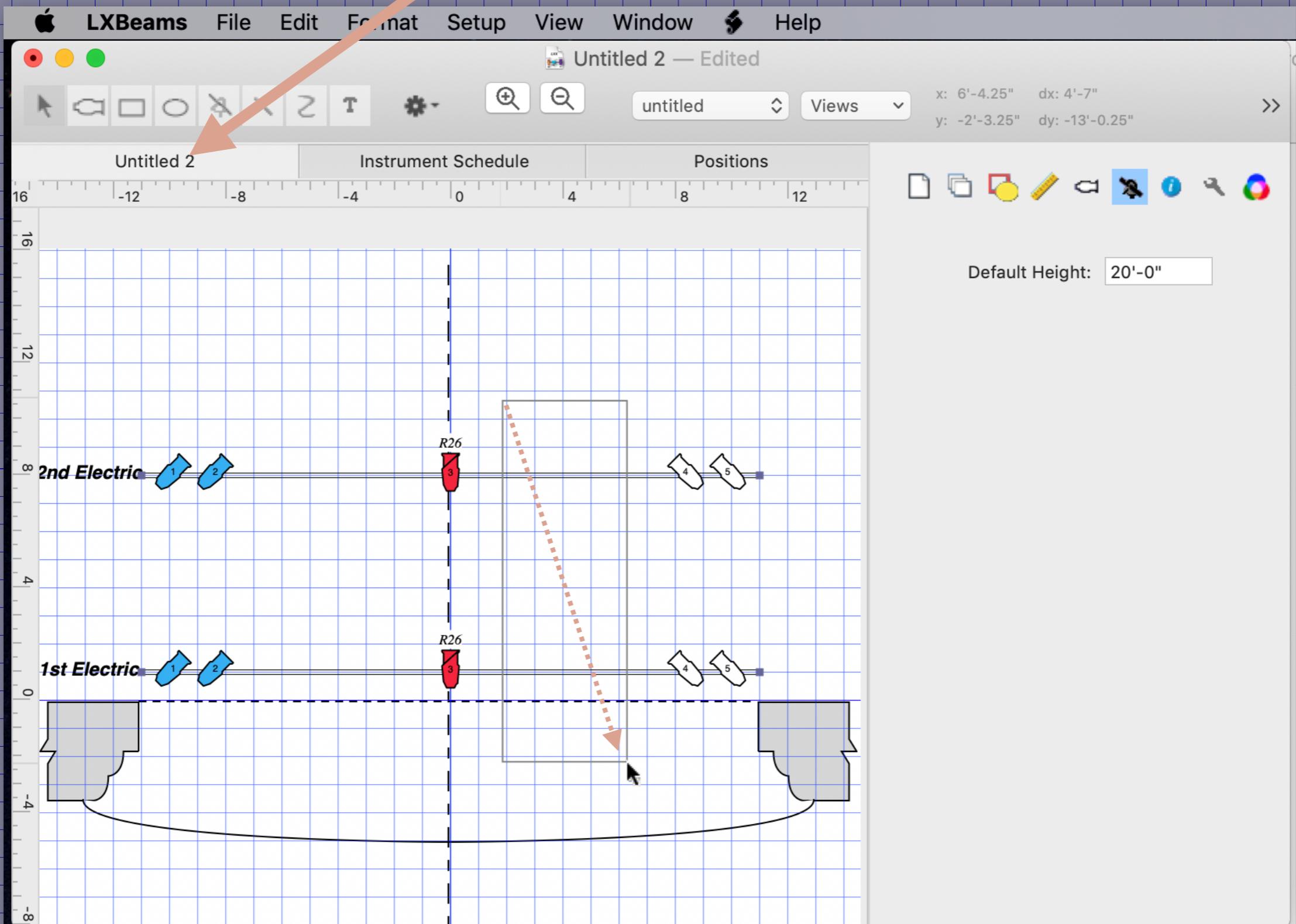
The screenshot shows the LXBeams software interface on a Mac OS X system. The window title is "Untitled 2 — Edited". The menu bar includes File, Edit, Format, Setup, View, Window, Help, and a gear icon. The toolbar contains icons for selection, camera, rectangle, circle, crosshair, line, text, and settings. The main area displays a table titled "Instrument Schedule" with three tabs: "Untitled 2", "Instrument Schedule", and "Positions".

| # | Type | Color | Channel | Location |
|---------------------|-----------------|-------|---------|----------|
| 1st Electric | | | | |
| 1 | 36° Source Four | R64 | | 1'-0" |
| 2 | 36° Source Four | R64 | | 2'-6" |
| 3 | 26° Source Four | R26 | | 11'-0" |
| 4 | 36° Source Four | | | 19'-6" |
| 5 | 36° Source Four | | | 21'-0" |
| 2nd Electric | | | | |
| 1 | 36° Source Four | R64 | | 1'-0" |
| 2 | 36° Source Four | R64 | | 2'-6" |
| 3 | 26° Source Four | R26 | | 11'-0" |
| 4 | 36° Source Four | | | 19'-6" |
| 5 | 36° Source Four | | | 21'-0" |

The right side of the interface features a toolbar with icons for file operations, selection, and measurement. A sidebar on the far right contains controls for "Distance" (set to 7'-0"), "Copies" (set to 1), "Direction" (set to 0), "Start with" (set to 11), "change by" (set to 1), "change every" (set to 1), and checkboxes for "append a, b, c..." and "Auto-Fill".

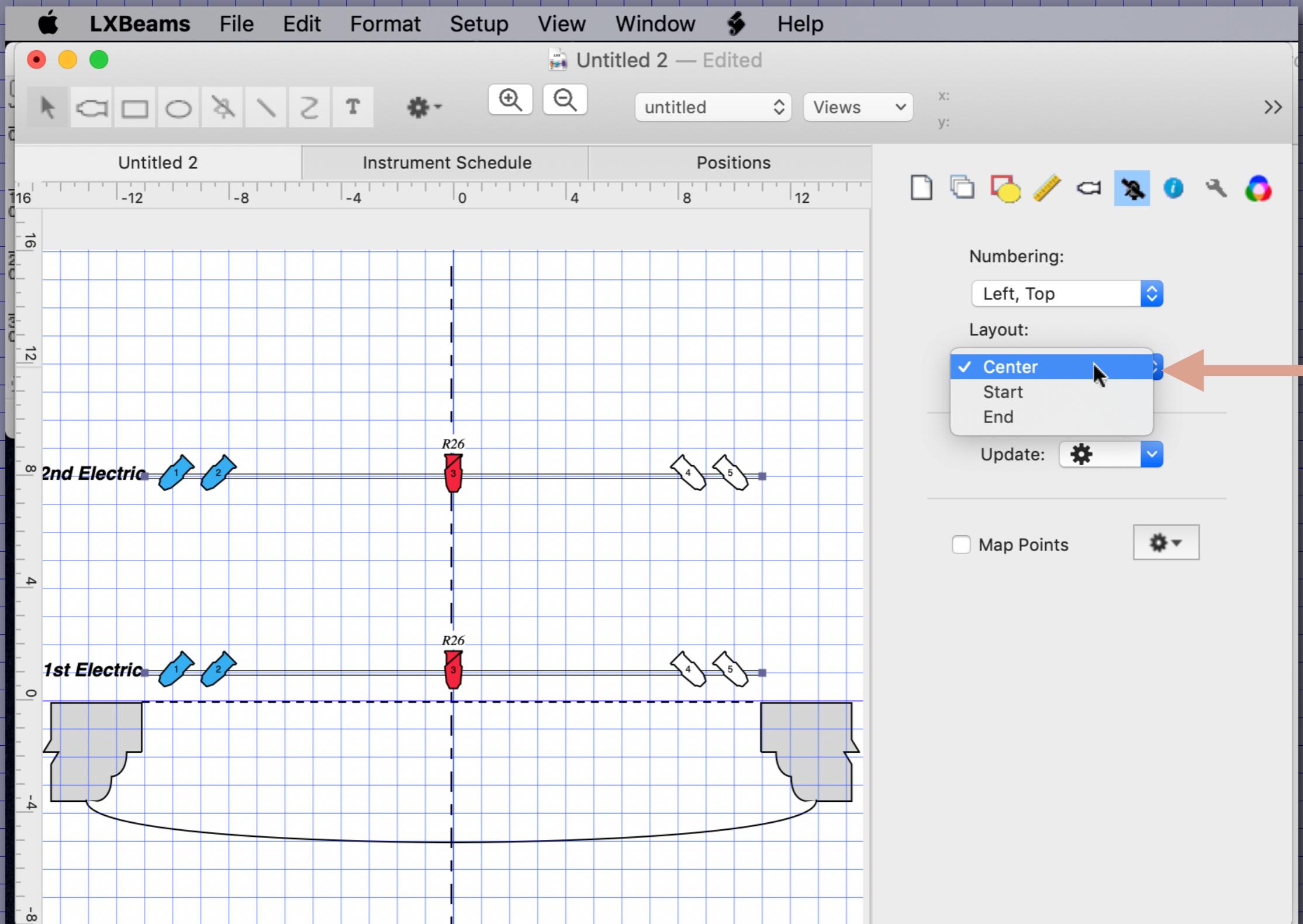
(Assuming you drew the first line from left to right.)

Click back to the main drawing tab.



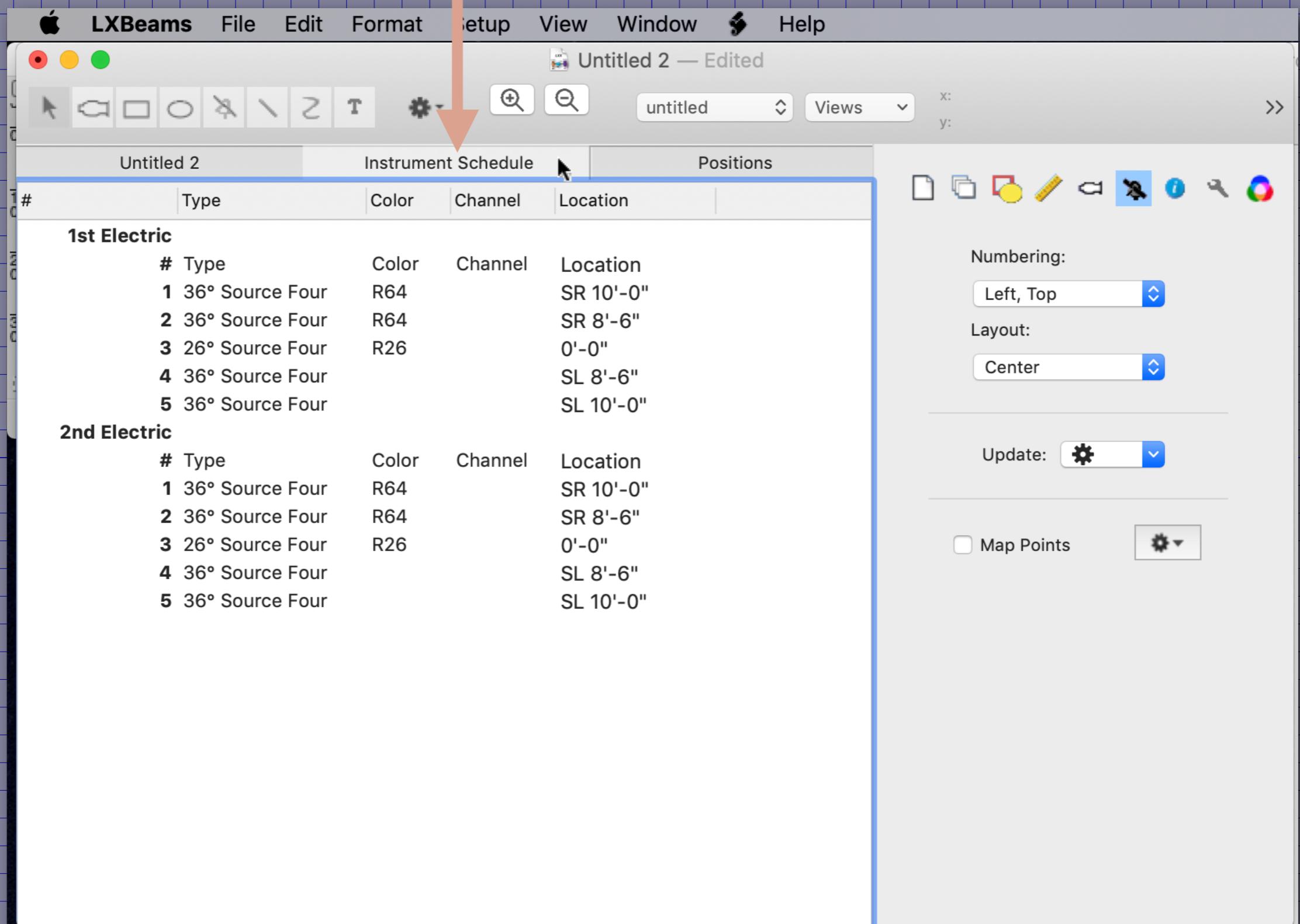
Click and drag to use the marquee to select both positions.

Change the layout back to center.



Once again, changing a property with multiple objects selected, changes all of the selected objects' properties.

Click back to the Instrument Schedule



Notice how the location for the lights is now measured from the center of the positions

In this section we've looked at
position properties.

- How position properties change the interaction between lights and positions.
- How numbering options work to automatically assign instrument numbers.
- How the “Positions” report is used to re-order positions so they sort in the desired order.

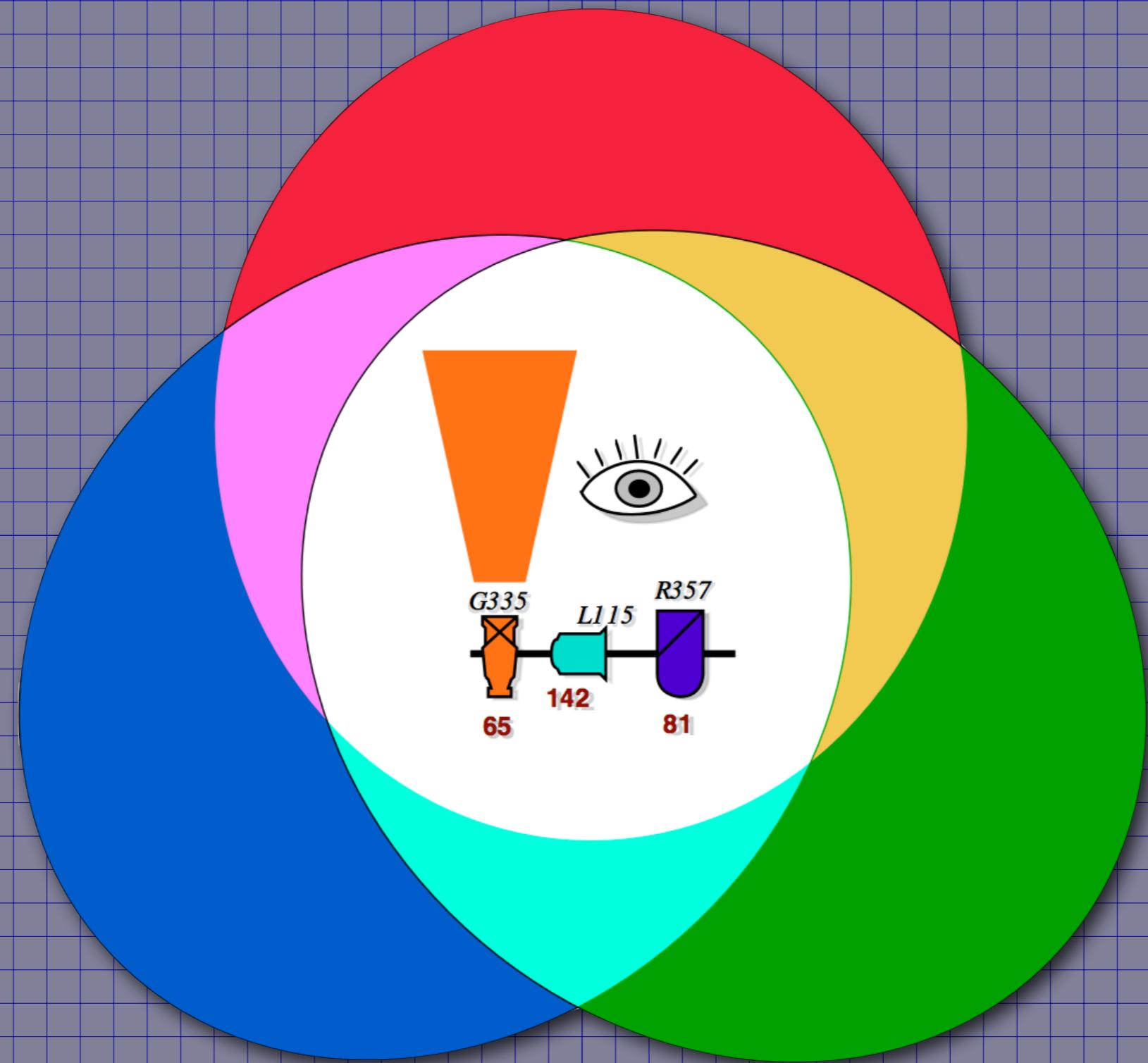
We've looked at the position layout property

- How the Layout property sets the reference point used to calculate light's locations.
- The reference point is used for automatic alignment and in reports showing a location column.

Try It Yourself

- Use the first exercise file you made
- Draw a grid of position lines as in a studio
- How would you name them?
- What Layout setting would you use?

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