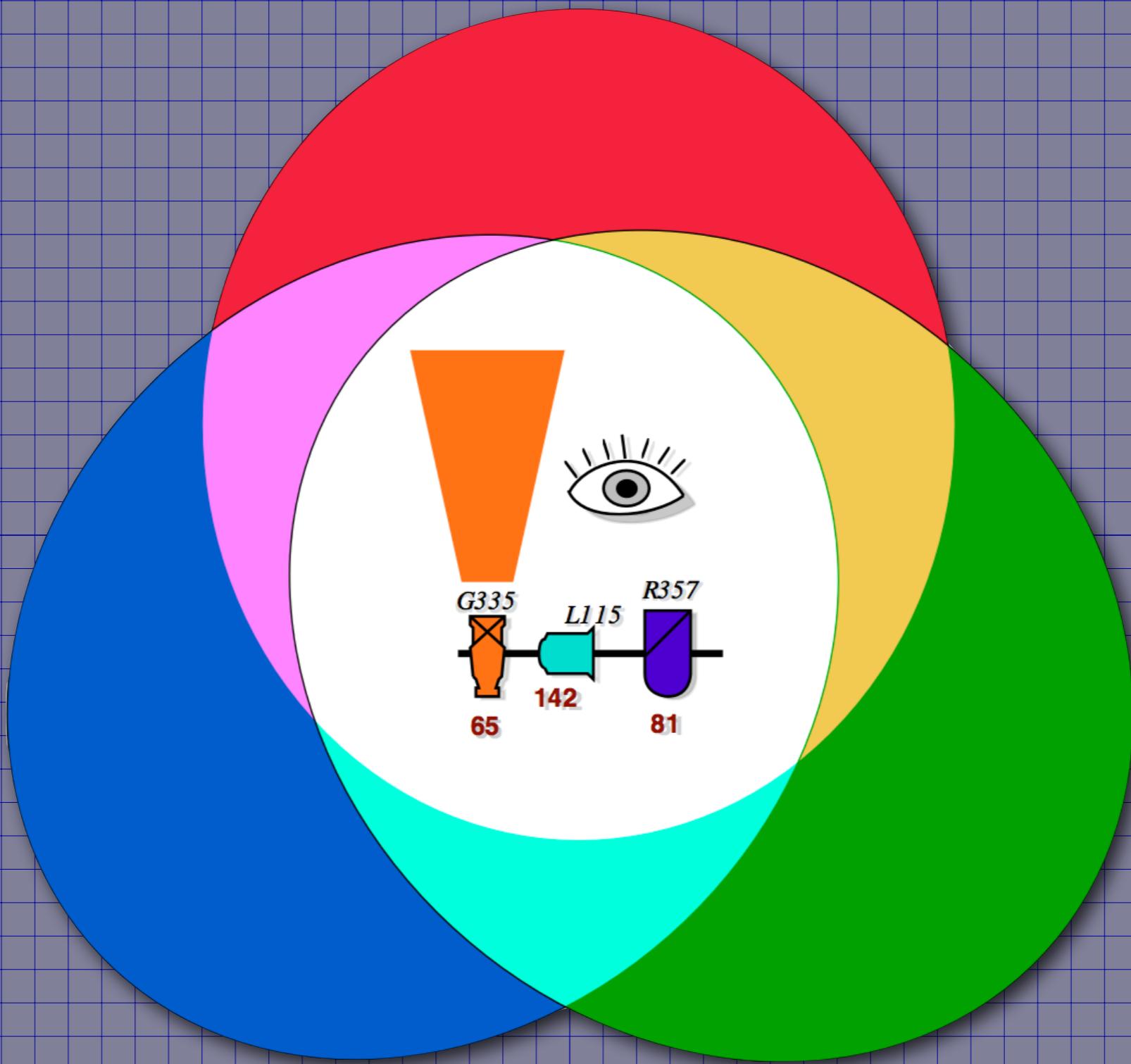


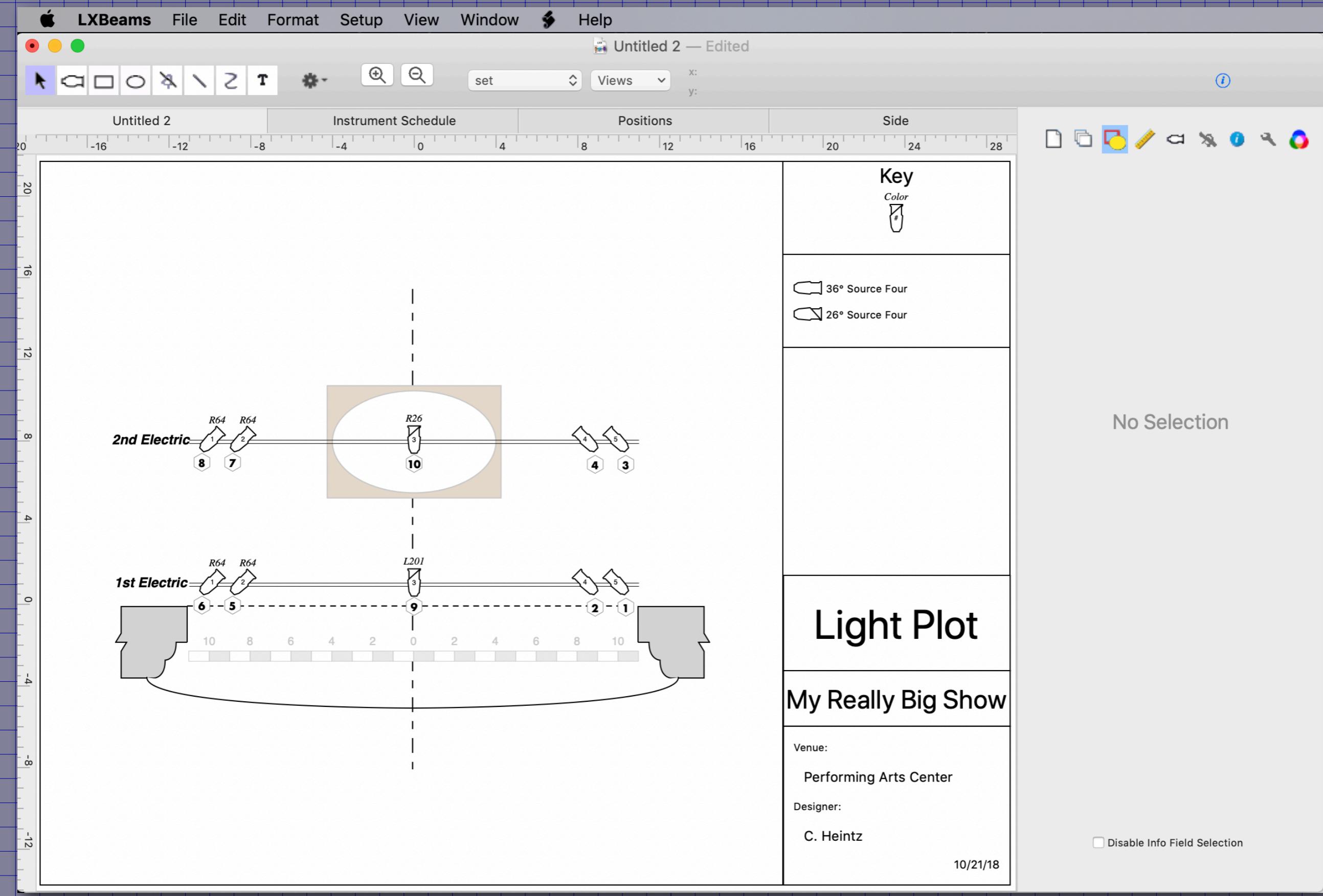
About Keys



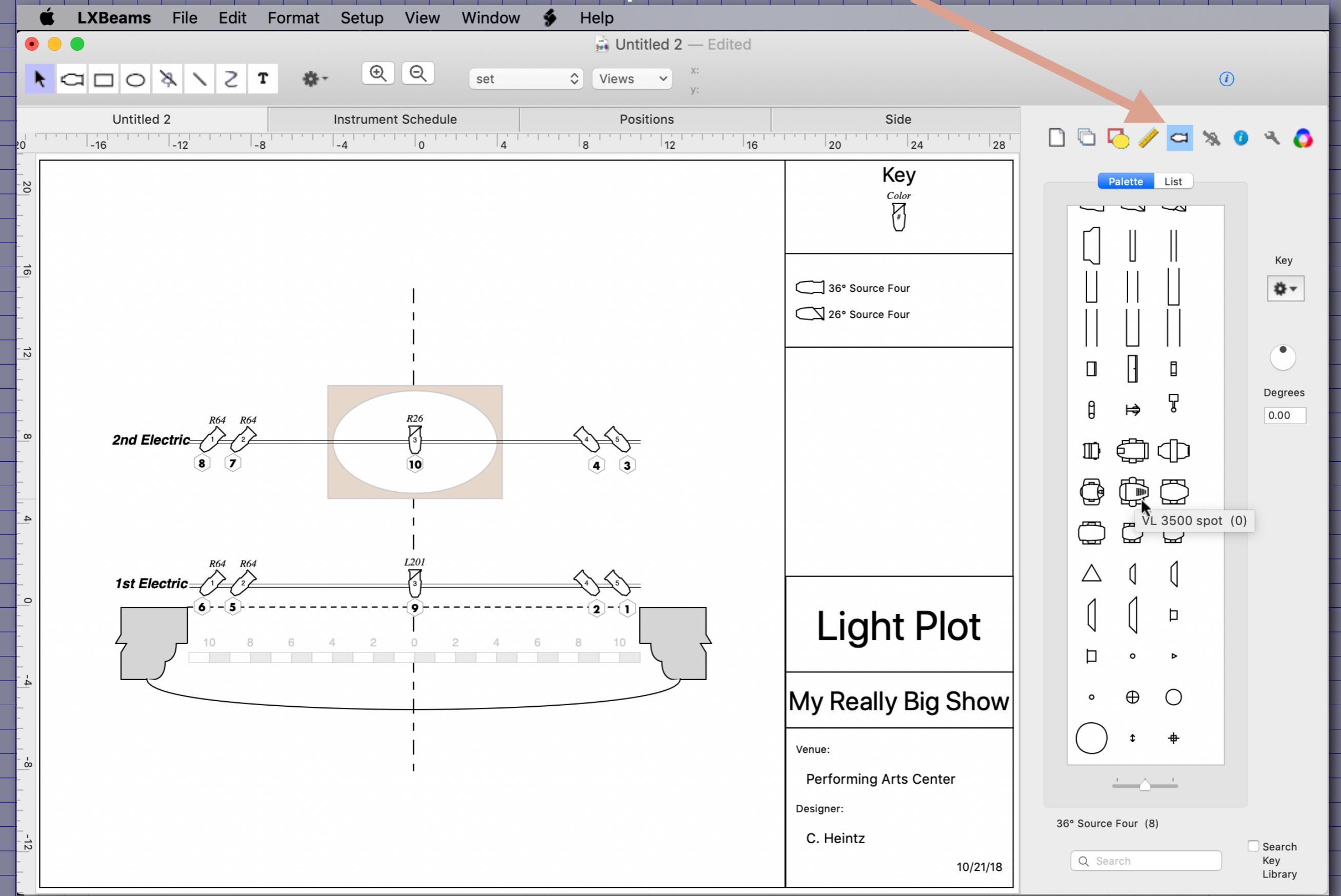
IATSE 728 Workshop 2020

©2020

Re-open the plot you've been working with.



Switch to the Inspector's Symbols tab.



Scroll down the palette and browse the fixtures available.
(Hovering the cursor will display the name of the fixture.)

To see the fixtures in the key by name, switch to list view.

The screenshot shows the LXBeams software interface. On the left is a 'Light Plot' window displaying a stage setup with two rows of fixtures. The top row is labeled '2nd Electric' and the bottom row '1st Electric'. Various fixtures are labeled with codes like R64, R26, L201, and numbers 1 through 10. To the right of the plot is a 'Key' panel listing fixture types and counts. Below it is a 'List' panel showing a detailed fixture list. The 'List' panel includes sections for 'Venue' (Performing Arts Center) and 'Designer' (C. Heintz). A red arrow points from the text at the top to the 'List' tab in the panel header.

Untitled 2 — Edited

Instrument Schedule

Positions

Side

2nd Electric

R64 R64

1st Electric

R64 R64

L201

2nd Electric

R26

10

1st Electric

6 5

9

10 8 6 4 2 0 2 4 6 8 10

Key

Color

36° Source Four

26° Source Four

Light Plot

My Really Big Show

Venue:

Designer:

Performing Arts Center

C. Heintz

10/21/18

Scroller (0)

I-cue (0)

DMX Iris (0)

X24 (0)

Revolution (0)

VL1000 (0)

VL2000 (0)

VL 3500 spot (0)

MAC2000Wash (0)

MAC TW1 (0)

MAC250 Krypton (0)

MAC250 Krypton Ex (0)

Special (0)

Barndoors (0)

Baby Barndoors (0)

Junior Barndoors (0)

Senior Barndoors (0)

High Hat (0)

Baby High Hat (0)

Gobo (0)

Gobo (0)

Iris (0)

Location (0)

Small Circle (0)

Circle (0)

axis indicator (0)

Focus Point (0)

36° Source Four (8)

Search

Search Key Library

There are a lot of fixtures... What if you were looking to add a Litepanels Sola 6?

You can use the search box.

LXBeams File Edit Format Setup View Window Help

Untitled 2 — Edited

Instrument Schedule Positions Side

2nd Electric 1st Electric

R64 R64 L201

10 8 6 4 2 0 2 4 6 8 10

Key Color
36° Source Four (8)
26° Source Four (2)
19° Source Four (0)
14° Source Four (0)
50° Source Four (0)
70° Source Four (0)
90° Source Four (0)
25-50° Source Four Zoom (0)
15-30° Source Four Zoom (0)
10° Source Four (0)
5° Source Four (0)
25-50° Source Four J (0)
26° Source Four Jr. (0)
36° Source Four Jr. (0)
50° Source Four Jr. (0)
Very Narrow (0)
Narrow (0)
Medium (0)
Wide (0)
VNSP (0)
NSP (0)
MFL (0)
WFL (0)
Parnel (0)
S6-50 (0)
S6-40 (0)
S6-30 (0)
S6-20 (0)

Light Plot

My Really Big Show

Venue:
Designer:

Performing Arts Center
C. Heintz

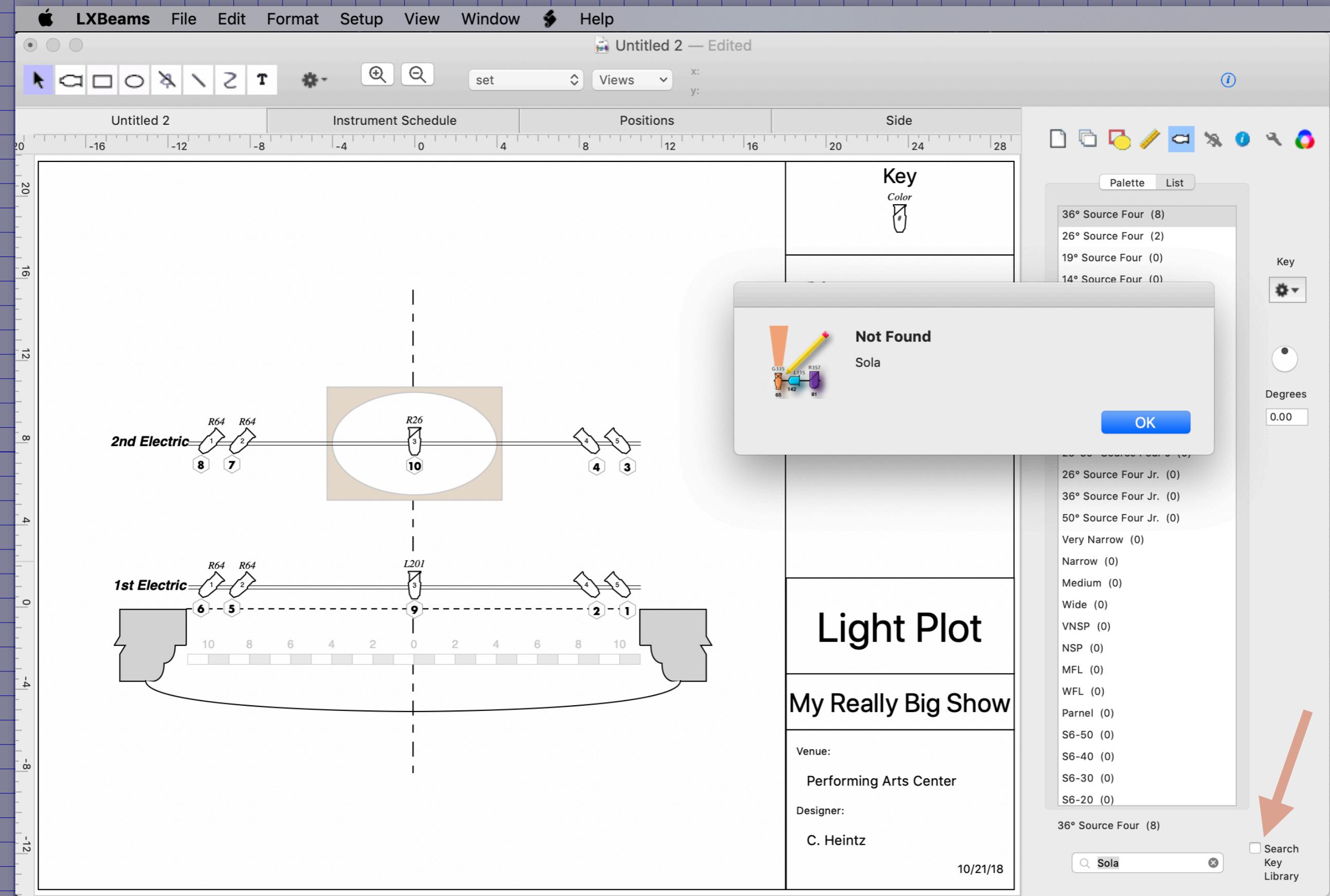
10/21/18

36° Source Four (8)

Search Sola

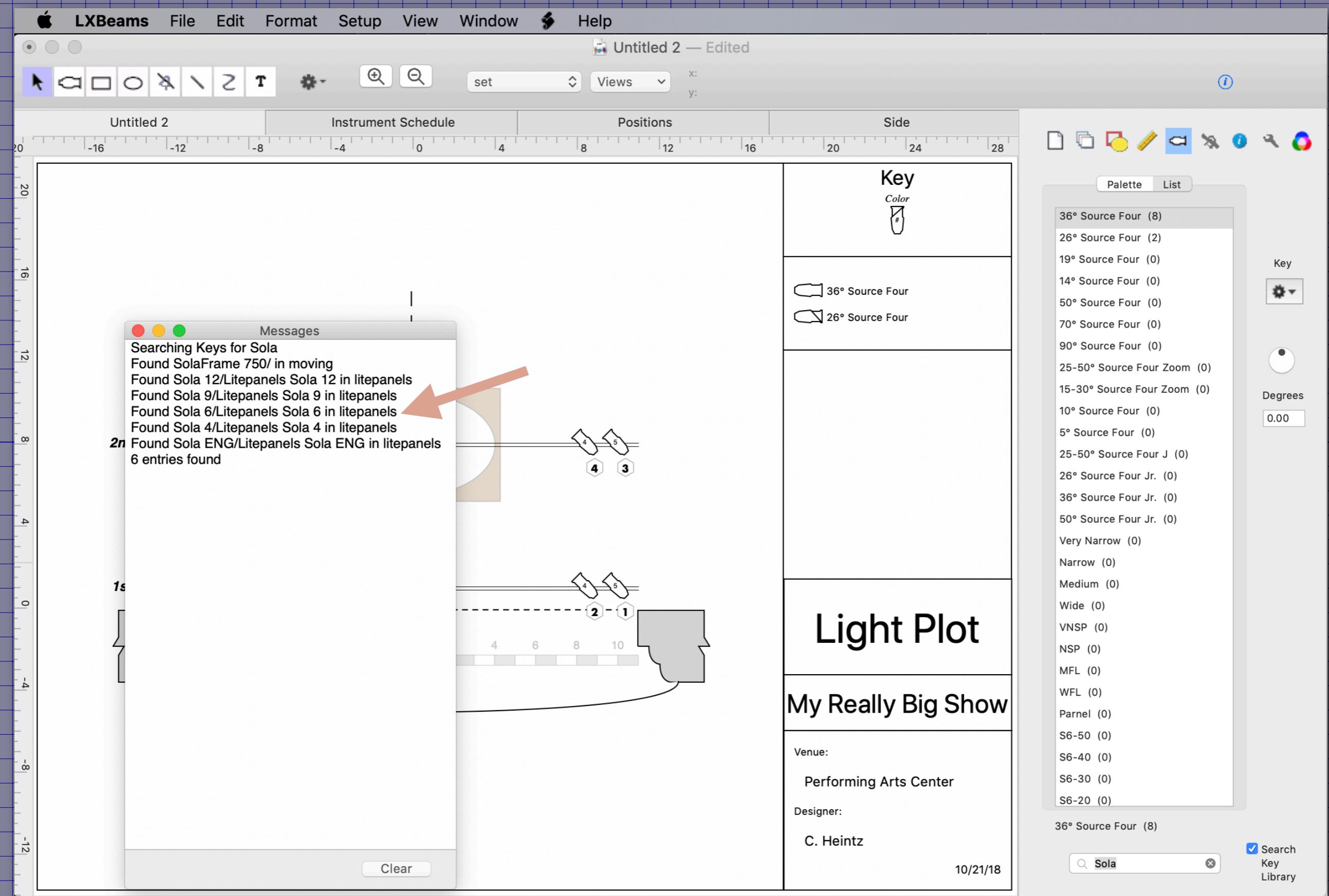
Try typing "Sola" and hit return (enter).

Although the default key has a lot of entries, Sola is not found.



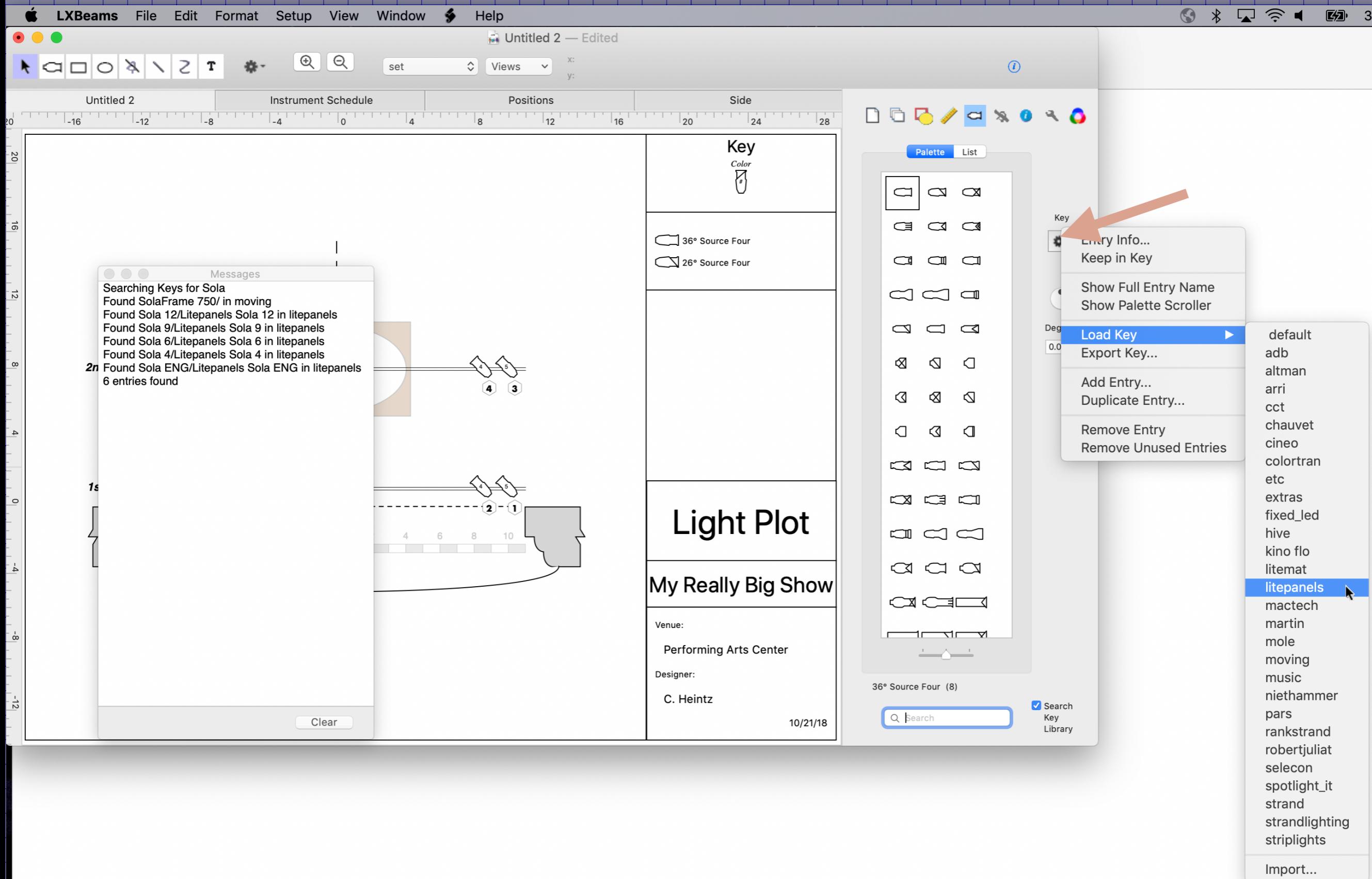
Click OK and try checking the "Search Key Library" box.

The Messages window appears.

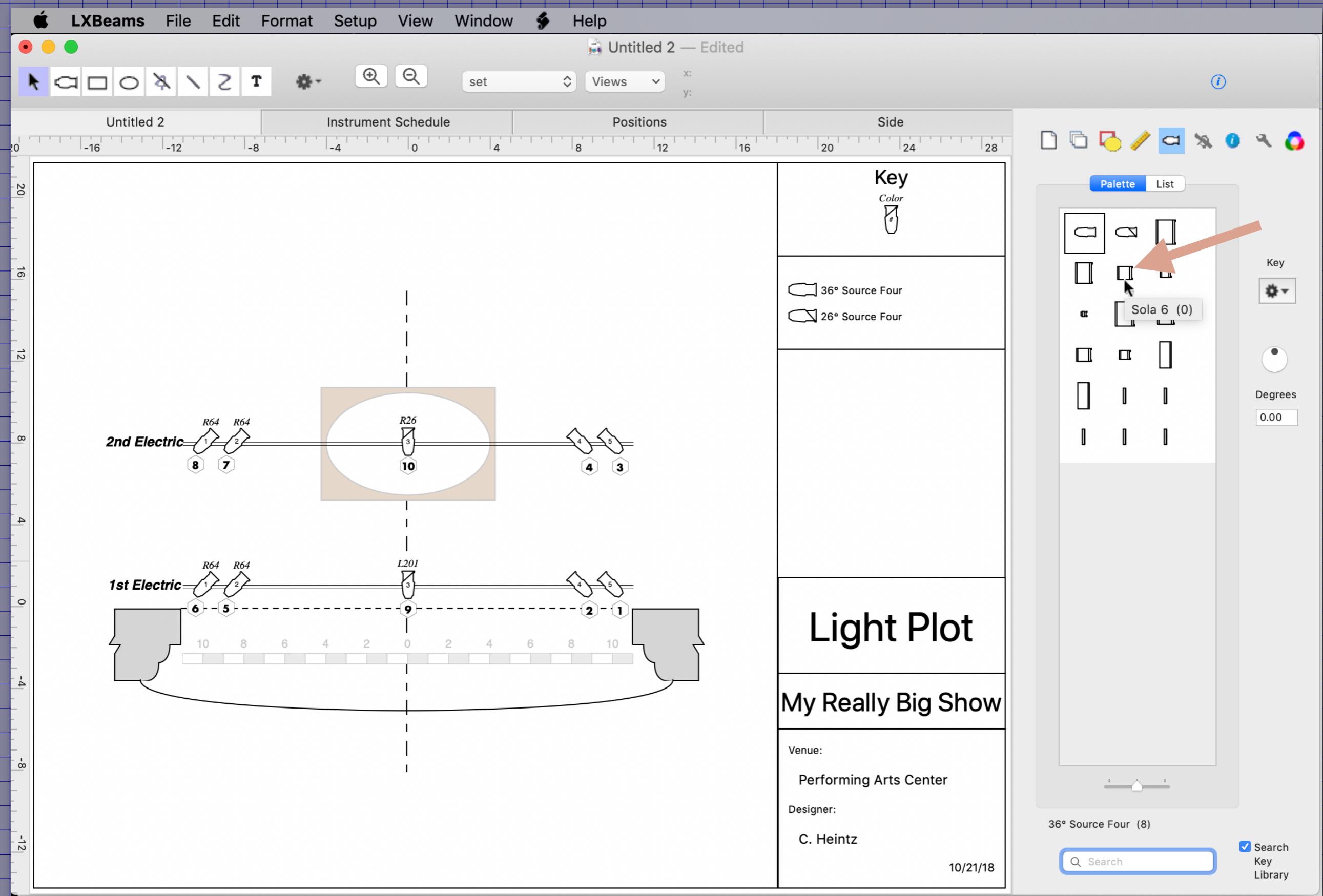


There is a list of all the keys found with entries containing "Sola".

Use the Key popup and select Load Key→litpanels.

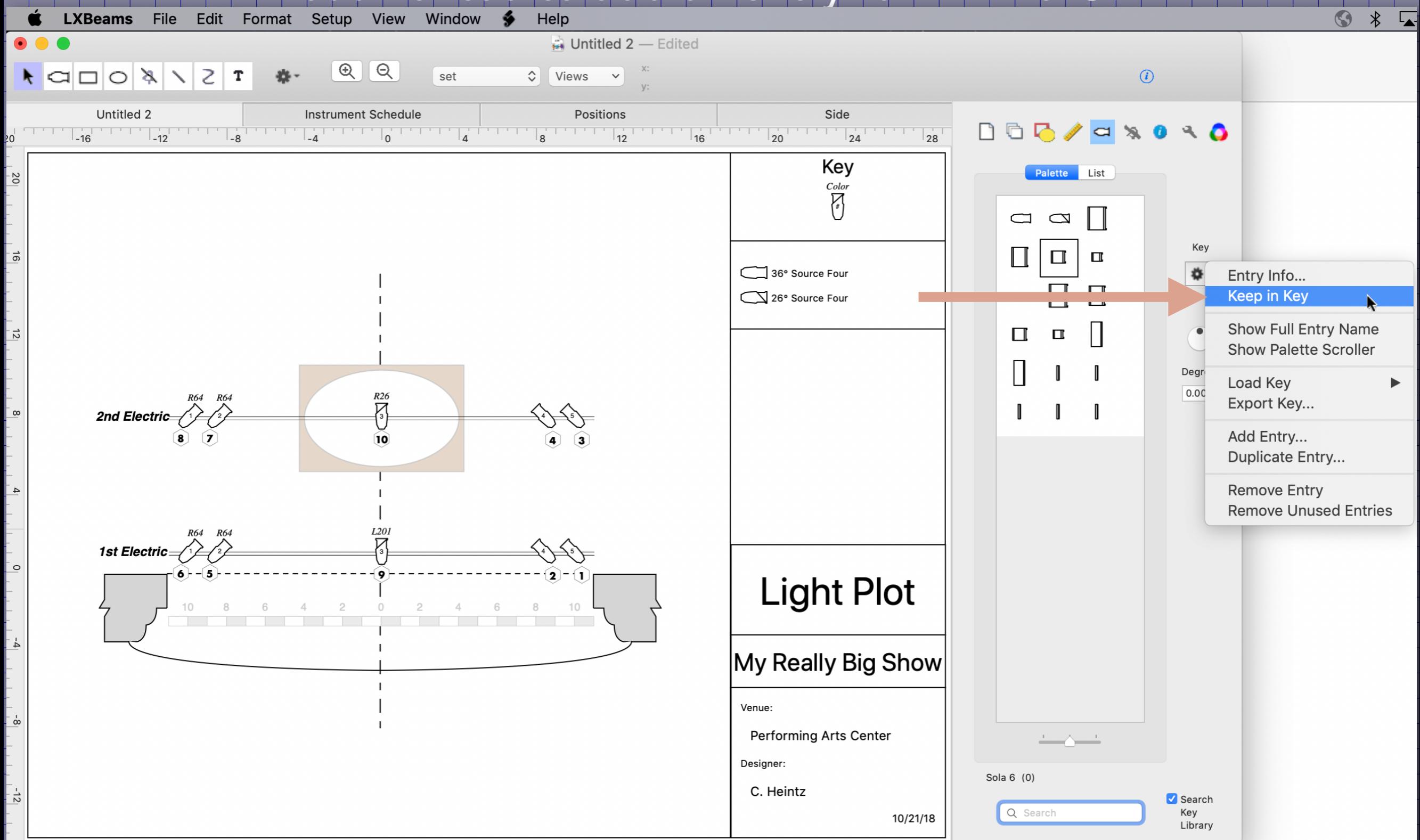


Entries from the built-in "litepanels" library are switched into the Key.



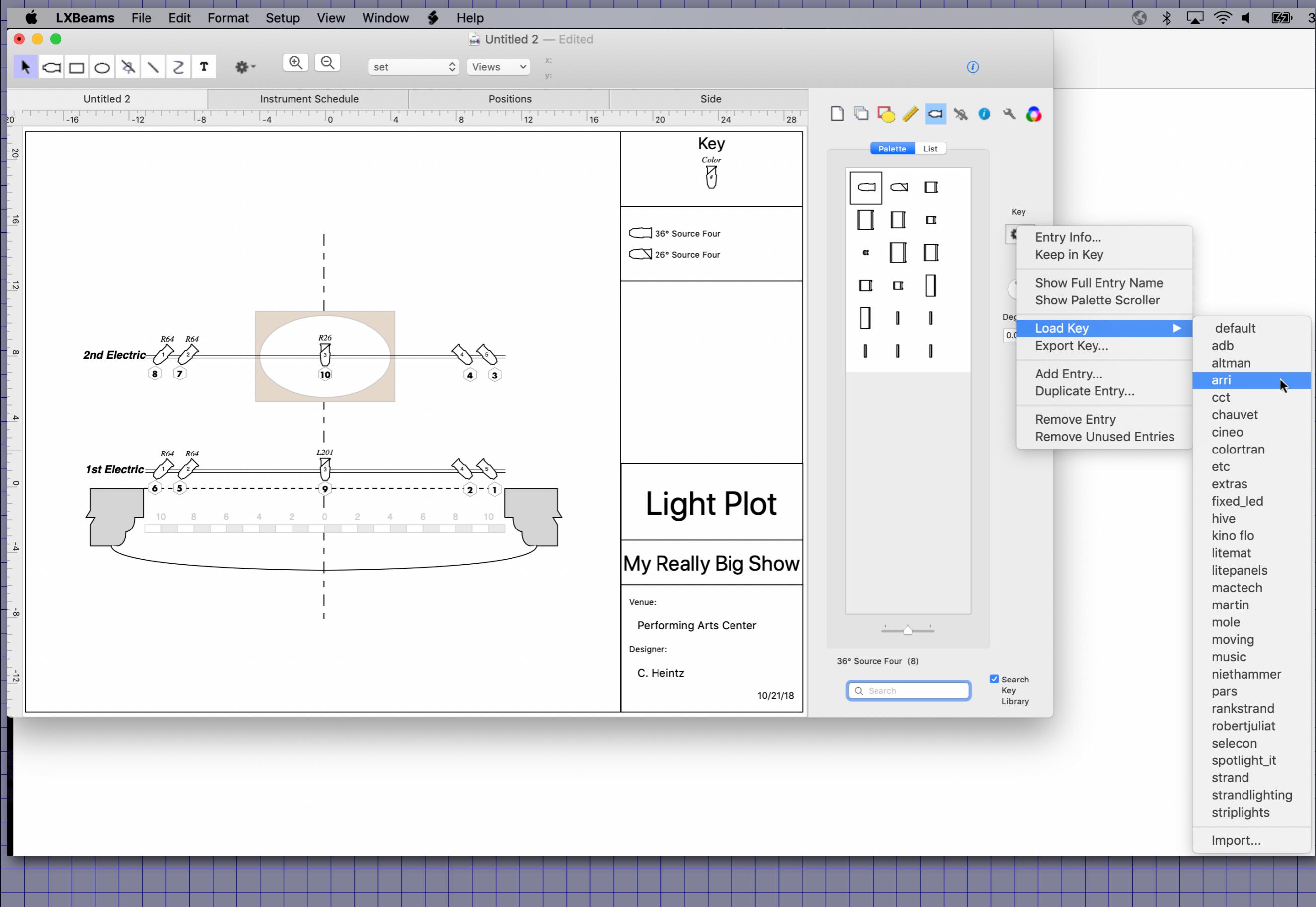
Notice that entries that have been used in the plot must remain in the key.

What if you didn't want to draw a Sola 6 right away,
but wanted to add an entry for Arri L5-C?



Select the Sola 6 and, from the Key popup, select Keep in Key.

Then, select Load Key→arri from the popup.

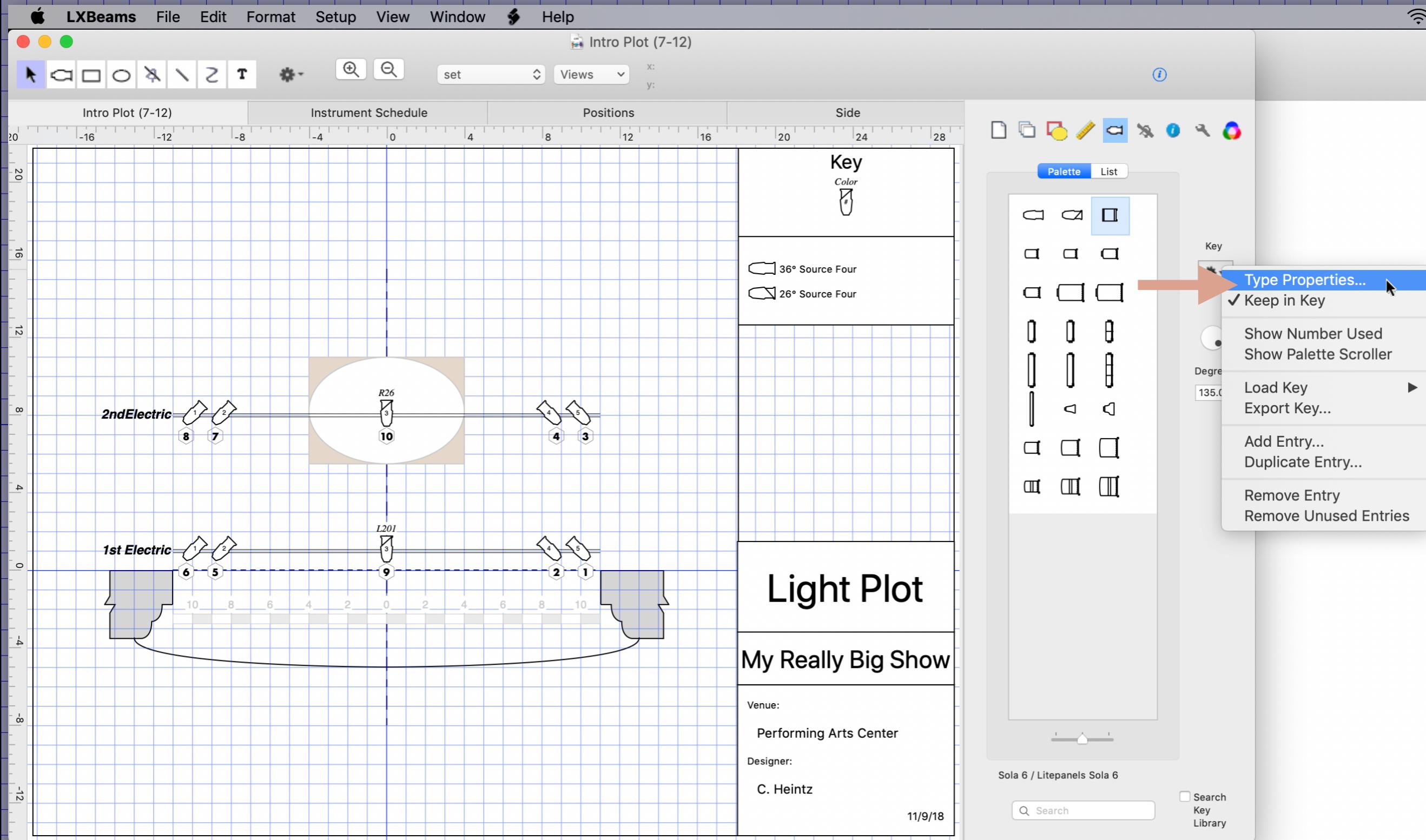


The first entry in the “arri” key is for an L5-C.

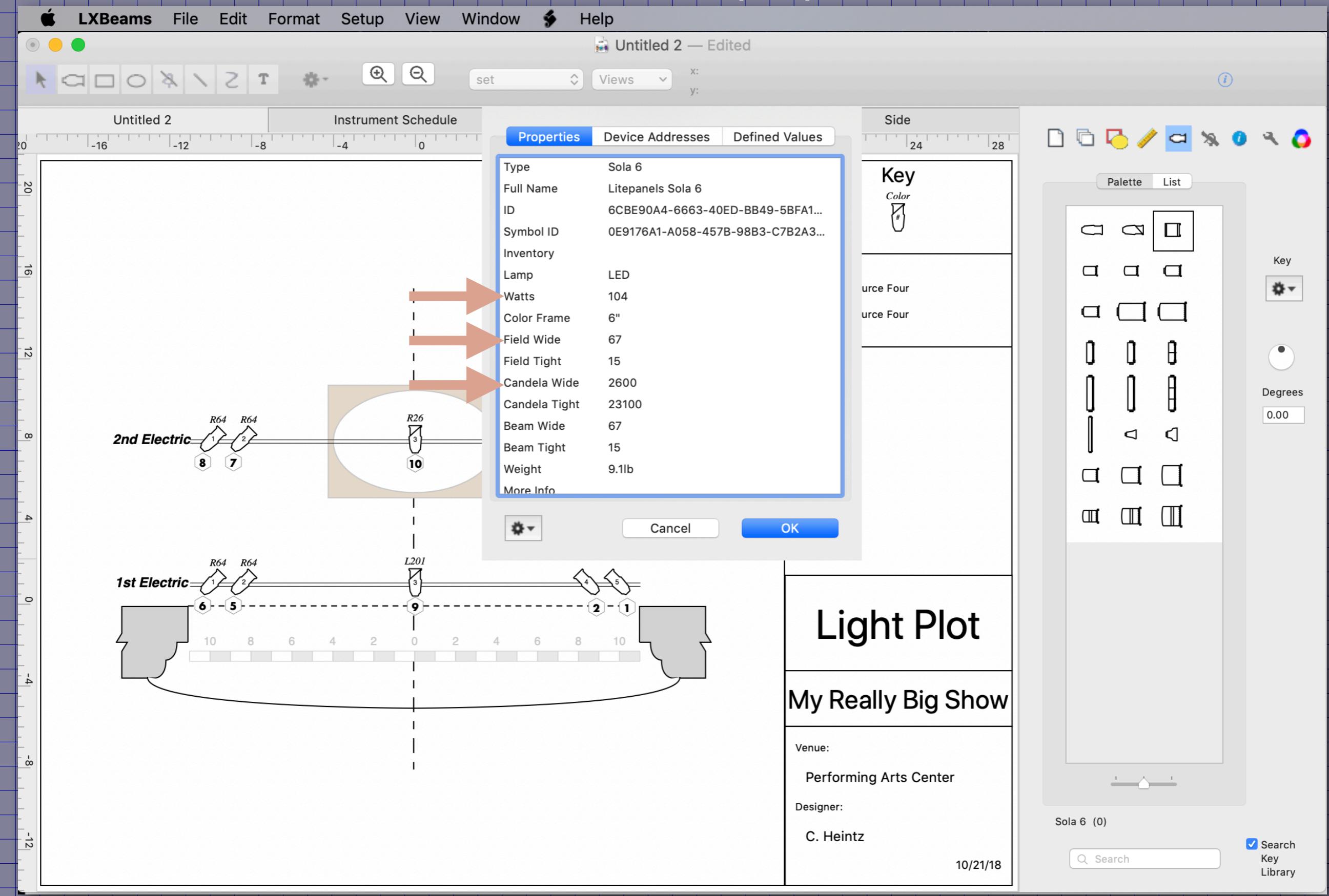
The screenshot shows the LXBeams software interface. On the left is the main stage plot area with two truss structures labeled "2nd Electric" and "1st Electric". The "2nd Electric" truss has fixtures labeled R64, R64, R26, and 36° Source Four, 26° Source Four. The "1st Electric" truss has fixtures labeled R64, R64, L201, and 36° Source Four, 26° Source Four. A central oval fixture is labeled R26. Below the trusses is a horizontal beam profile with values from -10 to 10. On the right side of the screen is a "Key" palette window. This window contains sections for "Key Color" (with a color swatch), "36° Source Four", "26° Source Four", and "Light Plot" (which displays "My Really Big Show"). Below these sections are fields for "Venue: Performing Arts Center" and "Designer: C. Heintz" along with a date "10/21/18". An orange arrow points from the "36° Source Four" section of the Key palette to the "36° Source Four" fixture on the "2nd Electric" truss in the stage plot. At the bottom of the Key palette, there is a "Search" field with the placeholder "Search Key Library".

Here's how to compare that to the Sola 6

With the Sola 6 symbol selected, choose Type Properties...

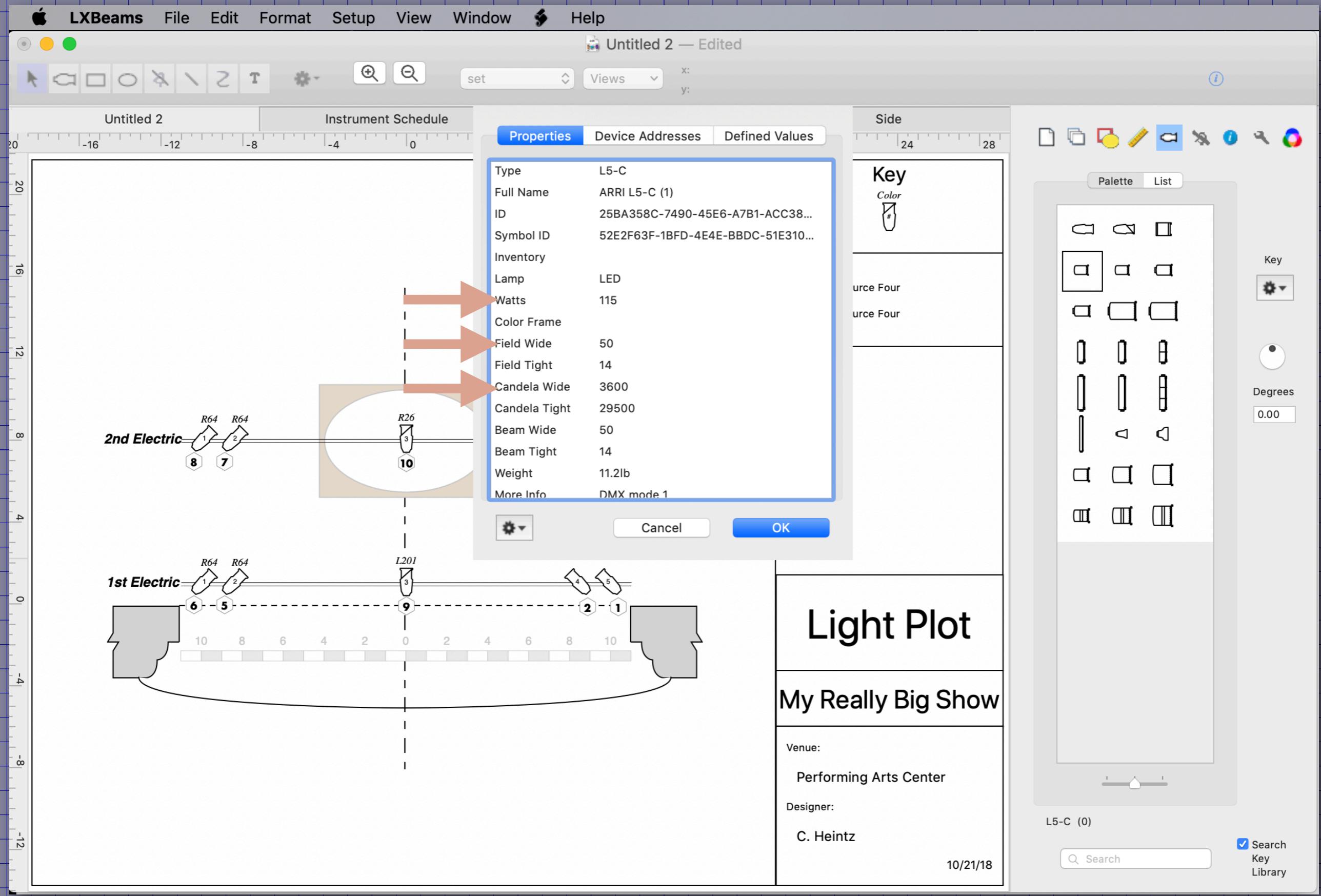


The entry info sheet shows the properties of the fixture.



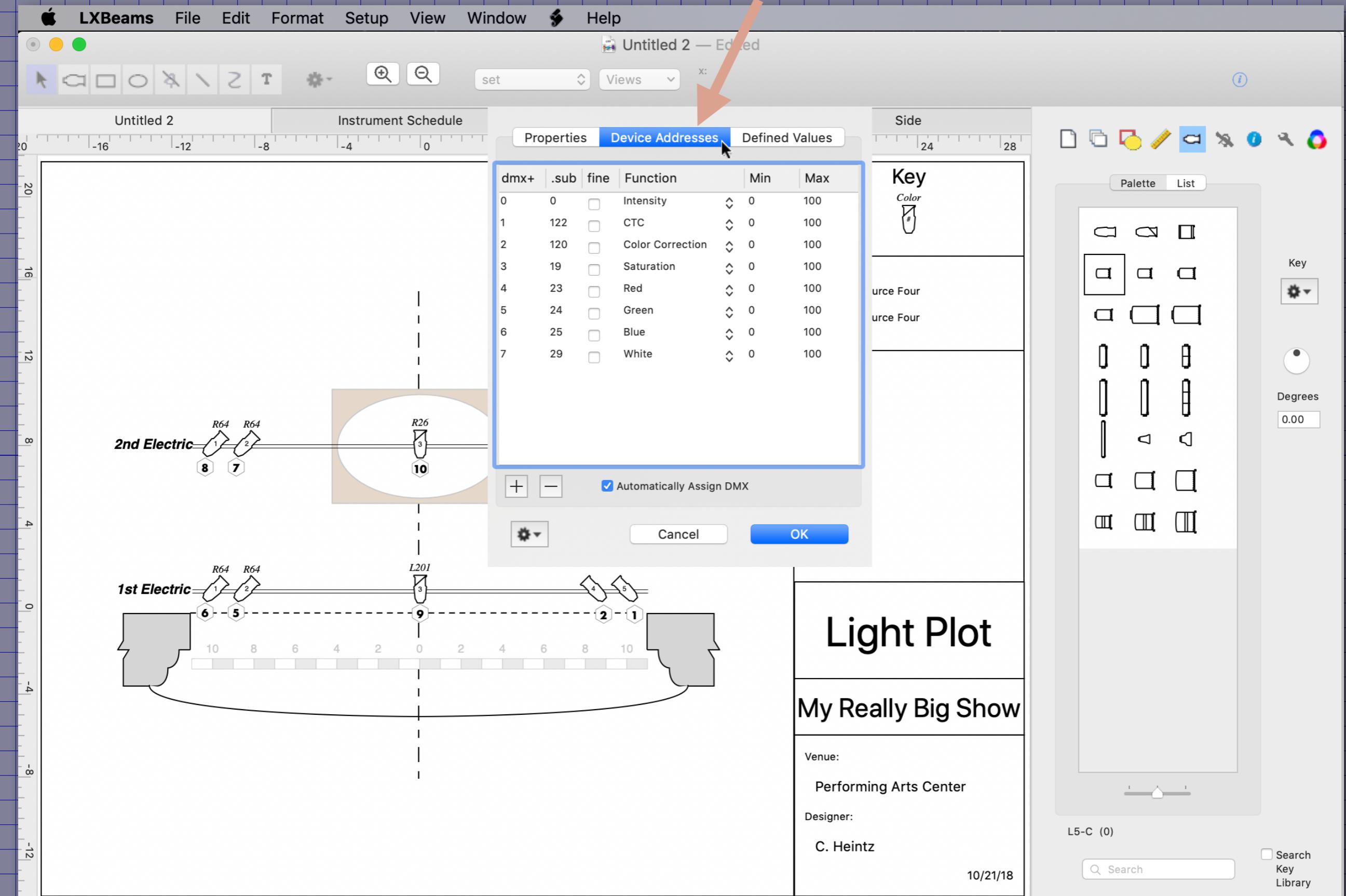
Some properties of interest might be watts, field angle at its widest and candela.

Check out the properties for the L5-C using Entry Info...



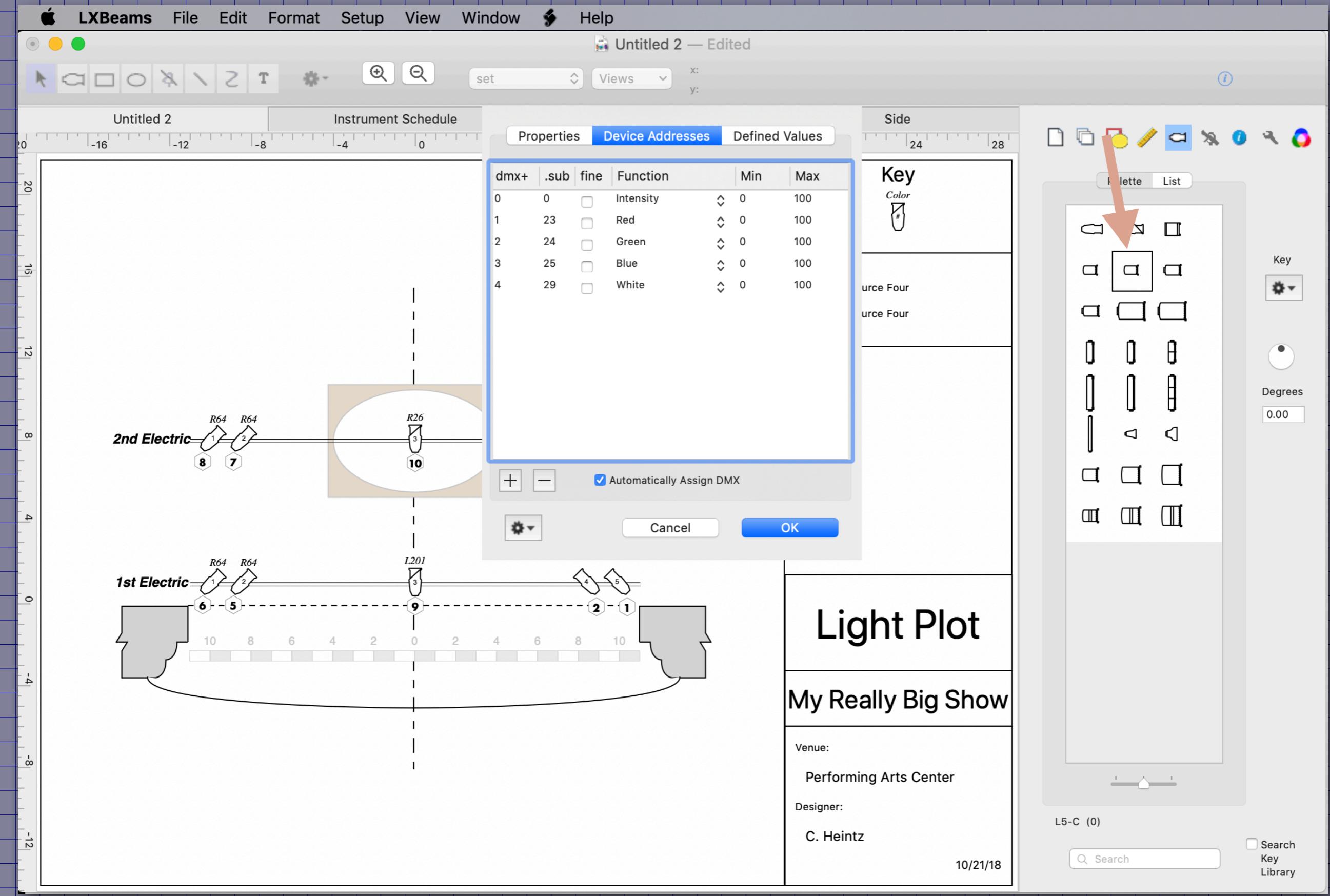
The L5-C is brighter, but slightly narrower at the widest, and uses more electricity.

Switch to the Device Addresses tab



The L5-C is also a full color mixing fixture.

You might have noticed there are two entries for L5-C



The second one has a different DMX configuration.

The information on the order of DMX addresses is found in the fixture's manual

LXBeams File Edit Format Setup View Window Help

Untitled 2 — Edited

Instrument Schedule

Properties Device Addresses Defined Values

dmx+ .sub fine Function Min Max

dmx+	.sub	fine	Function	Min	Max
0	0	<input type="checkbox"/>	Intensity	0	100
1	23	<input type="checkbox"/>	Red	0	100
2	24	<input type="checkbox"/>	Green	0	100
3	25	<input type="checkbox"/>	Blue	0	100
4	29	<input type="checkbox"/>	White	0	100

Side

Key

Color

urce Four

urce Four

Mode 4: RGBW, 8 bit resolution per function

Automatically Assign DMX

Cancel OK

Light Plot

My Really Big Show

Venue:
Performing Arts Center

Designer:
C. Heintz

10/21/18

Search Key Library

Palette List

Key

Degrees 0.00

L5-C (0)

Search

Figure showing the LXBeams software interface for mapping DMX addresses to fixture functions. A callout box highlights the 'Device Addresses' tab and the DMX mapping table. An arrow points from the fixture's manual table below to the software's mapping table. The fixture's manual table details the mapping for Mode 4: RGBW, 8 bit resolution per function.

Channel	Value	Percent	Function
1	0-255	0-100	Dimmer closed → open
2	0-255	0-100	Intensity red 0% → 100%
3	0-255	0-100	Intensity green 0% → 100%
4	0-255	0-100	Intensity blue 0% → 100%
5	0-255	0-100	Intensity white 0% → 100%

The L5-C has 15 DMX modes.

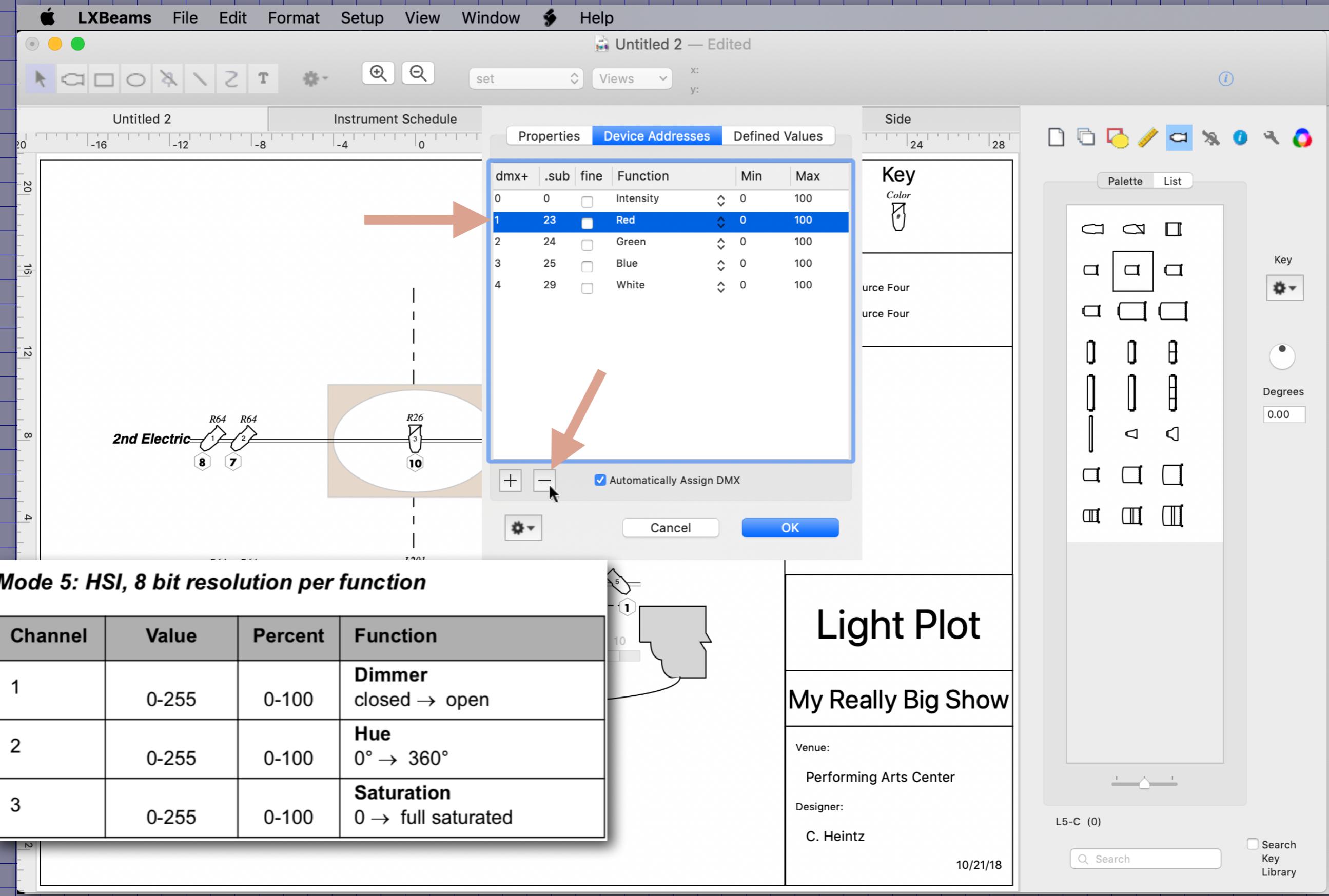
The screenshot shows the LXBeams software interface. At the top, the menu bar includes LXBeams, File, Edit, Format, Setup, View, Window, Help, and a search bar. The main window displays a light plot titled "Untitled 2 — Edited". On the left, there's an "Instrument Schedule" timeline from -16 to 0. A central table titled "Device Addresses" lists DMX assignments:

dmx+	.sub	fine	Function	Min	Max
0	0	<input type="checkbox"/>	Intensity	0	100
1	23	<input type="checkbox"/>	Red	0	100
2	24	<input type="checkbox"/>	Green	0	100
3	25	<input type="checkbox"/>	Blue	0	100
4	29	<input type="checkbox"/>	White	0	100

A red dashed arrow points from the "Device Addresses" table towards a modal dialog titled "Automatically Assign DMX". This dialog contains a "Cancel" button and an "OK" button, along with a preview of the DMX assignments. To the right of the main window, there's a "Side" panel showing a "Key" section with a color swatch and a "Source Four" section. On the far right, there's a "Light Plot" panel with the title "My Really Big Show", venue information ("Performing Arts Center"), designer ("C. Heintz"), and a date ("10/21/18"). Below the Light Plot is a search bar for the "Search Key Library".

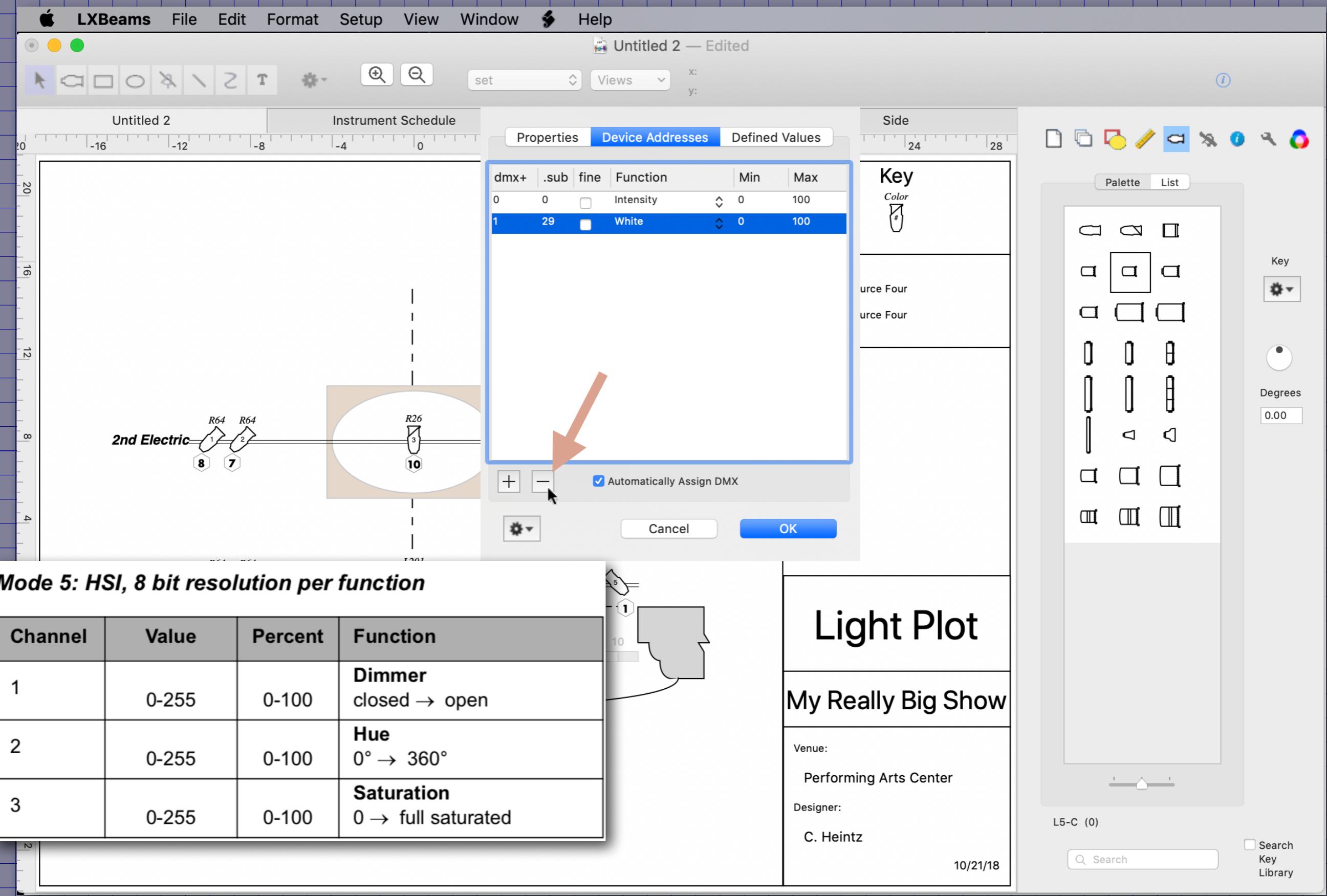
Only two common modes are included in the library.
But it is easy to edit the Device Addresses Table

Click on the row for the “Red” address



Then click the “-” button to delete the row.

Click the “-” button two more times to delete the other colors



Stop at “white”. Instead of deleting it we will change its function.

Click the Function column to popup the list of parameters.

The screenshot shows the LXBeams software interface. On the left, there's a stage plot with a fixture labeled "2nd Electric". The fixture has two R64衰减器 (R64) and one R26衰减器 (R26). A parameter dialog box is open in the center, titled "Properties". It lists "dmx+", ".sub", "fine", "Function", "Min", and "Max" columns. The first row has values 0, 0, and "Intensity". The second row, which is selected, has values 1, 18, and "Hue". A dropdown menu is open over the "Function" column, showing options: Iris%, Intensity, Hue, Saturation, and Cyan. An orange arrow points from the text above to this dropdown menu. To the right of the dialog box is a "Key" palette with various lighting fixture icons. Below the dialog box is a "Light Plot" window titled "My Really Big Show" with details about the venue (Performing Arts Center) and designer (C. Heintz), dated 10/21/18. At the bottom, a search bar says "Search Key Library".

Untitled 2 — Edited

Instrument Schedule

Properties Device Addresses Defined Values

dmx+	.sub	fine	Function	Min	Max
0	0	<input type="checkbox"/>	Intensity	0	100
1	18	<input checked="" type="checkbox"/>	Hue	0	100

Iris%
Intensity
Hue
Saturation
Cyan

Automatically Assign DMX

Cancel OK

Mode 5: HSI, 8 bit resolution per function

Channel	Value	Percent	Function
1	0-255	0-100	Dimmer closed → open
2	0-255	0-100	Hue 0° → 360°
3	0-255	0-100	Saturation 0 → full saturated

Light Plot

My Really Big Show

Venue:
Performing Arts Center

Designer:
C. Heintz

10/21/18

Search Key Library

Scroll upwards to find "Hue".

Click the "+" button to add an address to the table.

The screenshot shows the LXBeams software interface. In the center, a dialog box titled "Device Addresses" is open, displaying a table of DMX assignments:

dmx+	.sub	fine	Function	Min	Max
0	0	<input type="checkbox"/>	Intensity	0	100
1	18	<input checked="" type="checkbox"/>	Hue	0	100
2	18	<input type="checkbox"/>	Hue	0	100

A red arrow points to the "+" button at the bottom left of the dialog box. The "Automatically Assign DMX" checkbox is checked. Buttons for "Cancel" and "OK" are also visible.

Below the dialog box, a light plot diagram shows a fixture with two R64衰减器 (R64) and one R26衰减器 (R26). A callout points from the fixture to a table below:

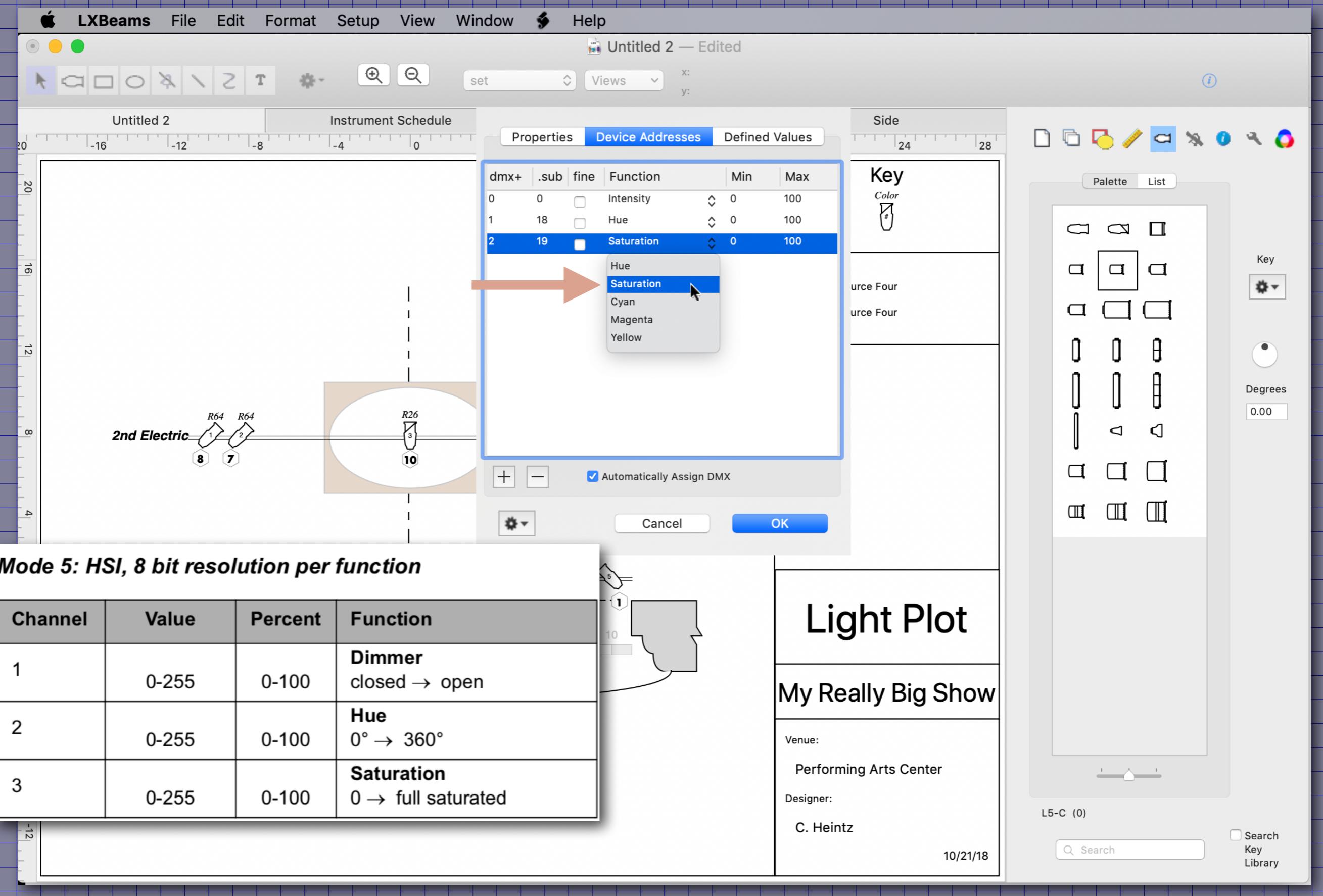
Mode 5: HSI, 8 bit resolution per function

Channel	Value	Percent	Function
1	0-255	0-100	Dimmer closed → open
2	0-255	0-100	Hue 0° → 360°
3	0-255	0-100	Saturation 0 → full saturated

To the right, a "Light Plot" window displays the text "My Really Big Show" and information about the venue and designer. At the bottom right of the software interface, there is a search bar for the "Key Library".

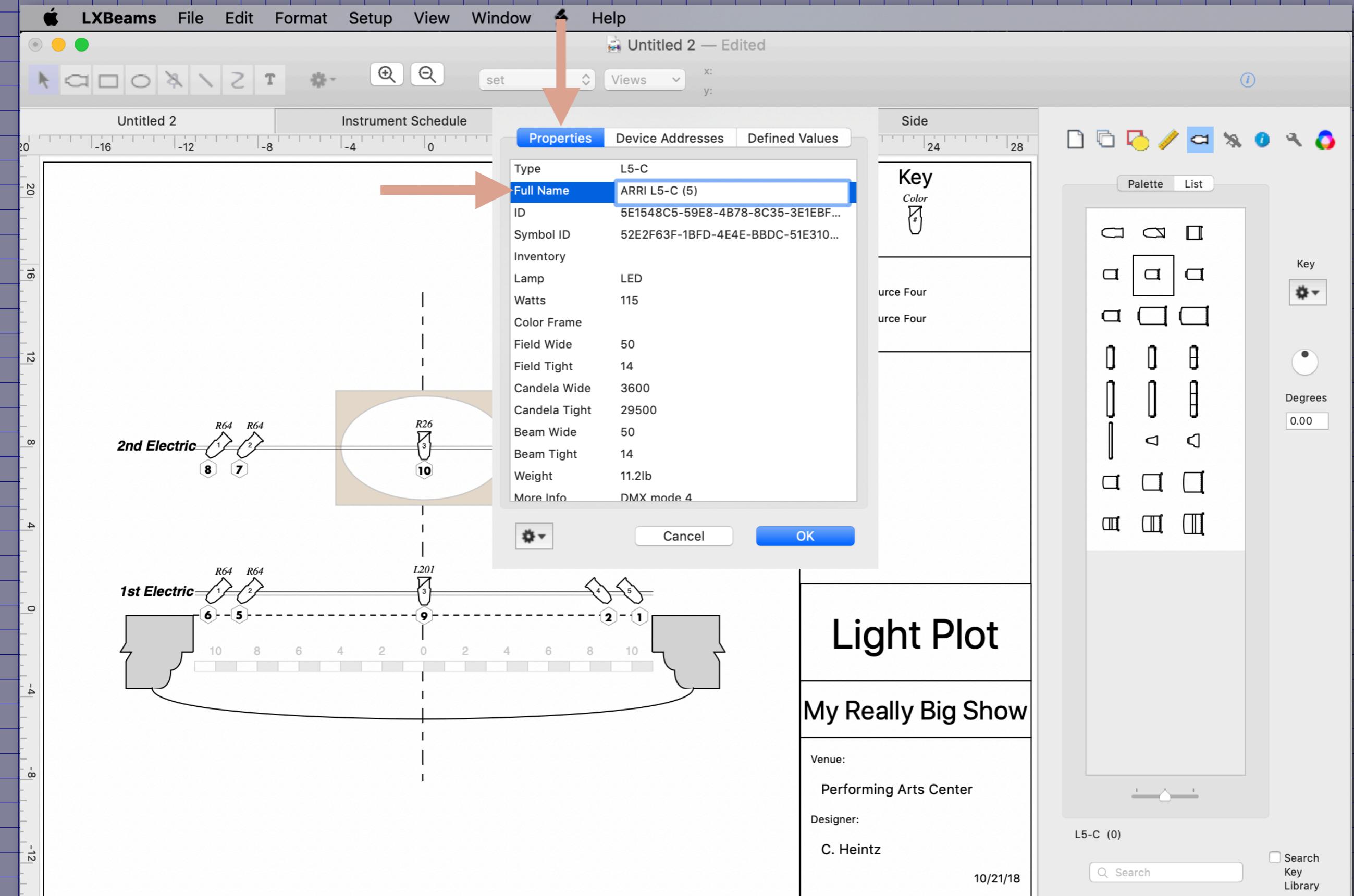
(If a row is selected, its function is duplicated.)

Click the Function column to popup the list of parameters.

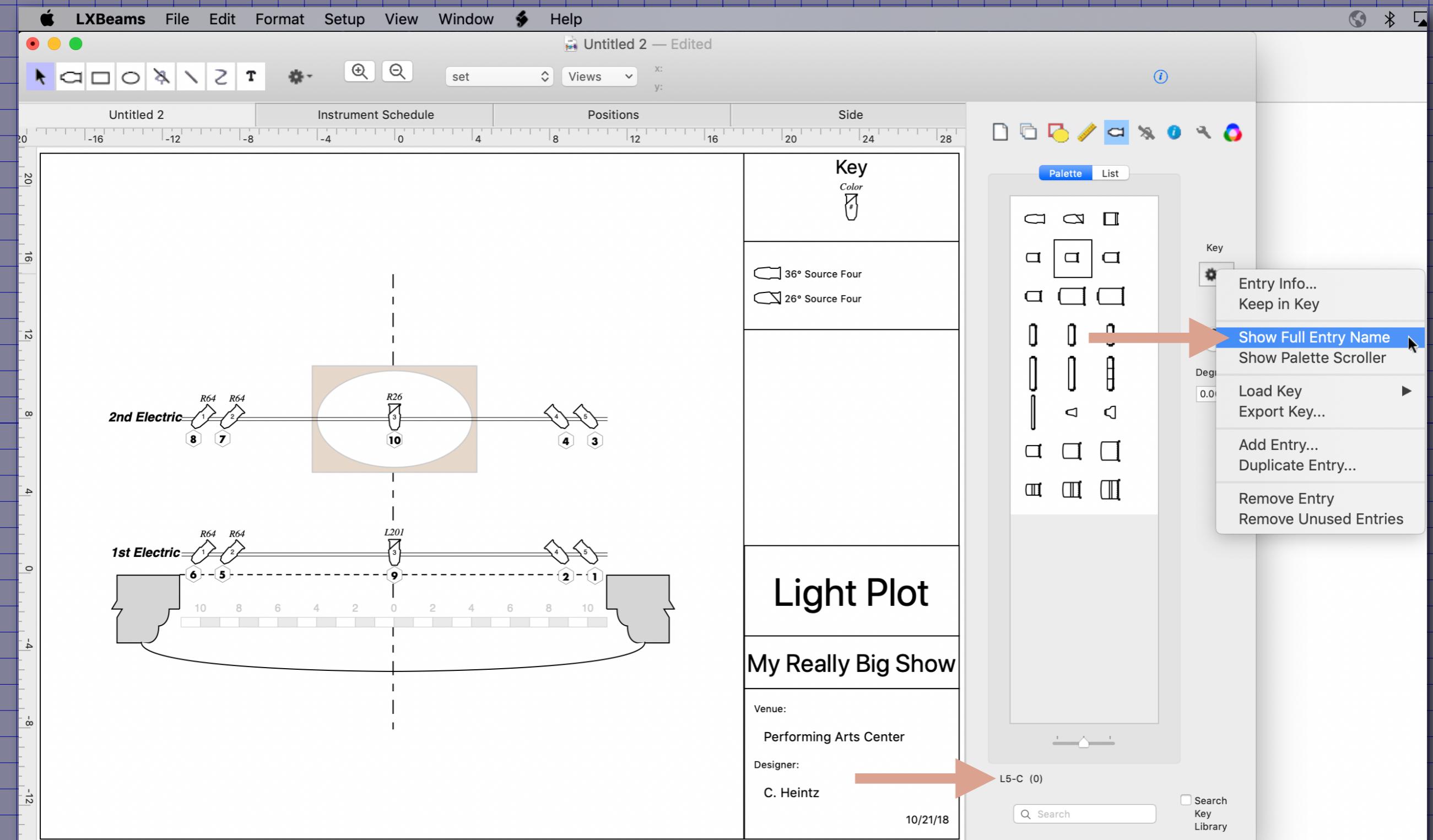


Change the function to “Saturation”, which is right below “Hue”.

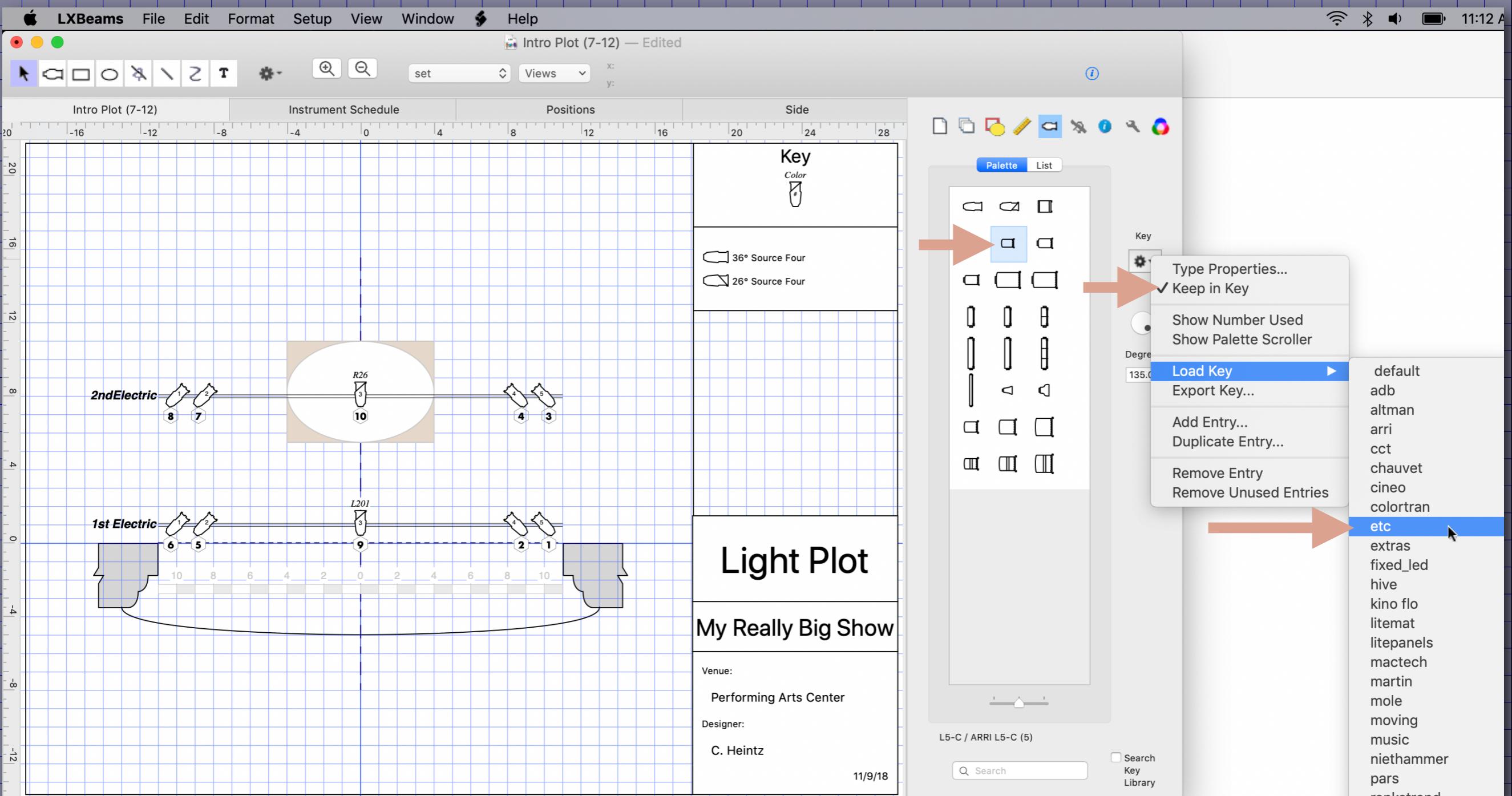
The final step would be to change the Full Name to reflect mode 5.



Either the full name or the number of symbols used
can be shown at the bottom of the symbols tab.



Make sure you keep the edited L5-C (5) in the plot's key.
Load "etc" from the library.



Double-click the ETC Revolution symbol.

LXBeams File Edit Format Setup View Window Help

Intro Plot (7-12) — Edited

set Views x:
y:

Instrument Schedule

Properties Device Addresses Defined Values

Type Revolution
Full Name SourceFour Revolution
ID ETC_S4R
Symbol ID 3D5B341A-260F-49E6-99F4-AA204B...
Inventory
Lamp QXL
Watts 750
Color Frame
Field Wide 34.3
Field Tight 15.3
Candela Wide 78410
Candela Tight 376520
Beam Wide 23.7
Beam Tight 10.5
Weight 0.0lb
More Info

Cancel OK

Side 24 28

Key Color #

urce Four

urce Four

Light Plot

My Really Big Show

Venue:
Performing Arts Center
Designer:
C. Heintz
11/9/18

2nd Electric 1 2 8 7 R26 10

1st Electric 1 2 6 5 L201 3 9 4 1 2 1

Figure showing a light plot for a stage setup. The plot includes two rows of fixtures labeled '1st Electric' and '2nd Electric'. The '1st Electric' row has fixtures numbered 1 through 9. The '2nd Electric' row has fixtures numbered 1 through 10. A central fixture is labeled 'R26'. The plot is set on a grid with axes ranging from -12 to 20. A 'Light Plot' window is open, displaying the fixture's properties and a 'Key' section. A red arrow points to the 'Key' section, which contains icons for various light fixtures. The 'Revolution / SourceFour Revolution' key is highlighted with a blue border.

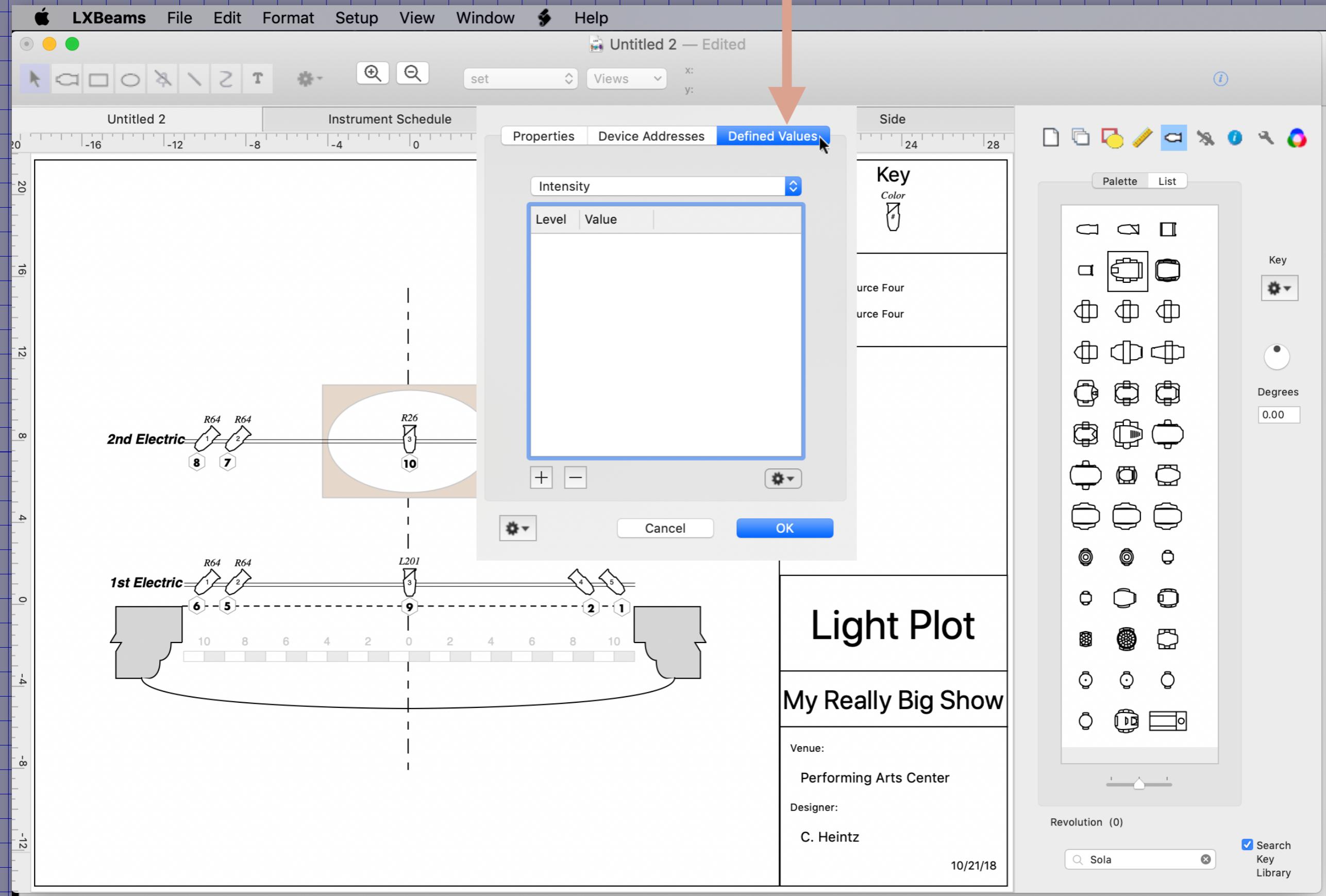
Palette List

Key Degrees 135.00

Search Search Key Library

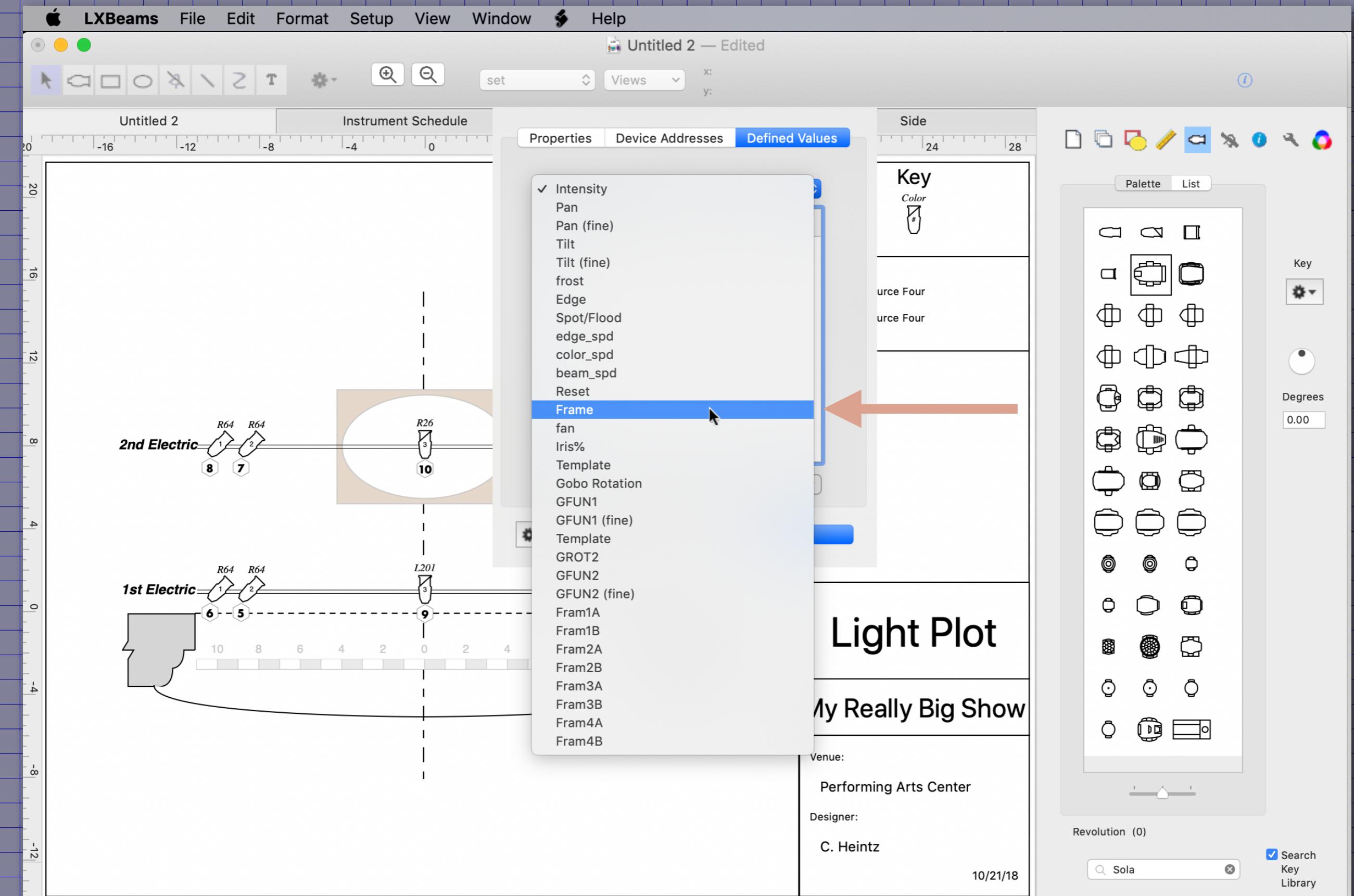
The double-click opens the Entry Info sheet.

Switch to the defined Values tab.

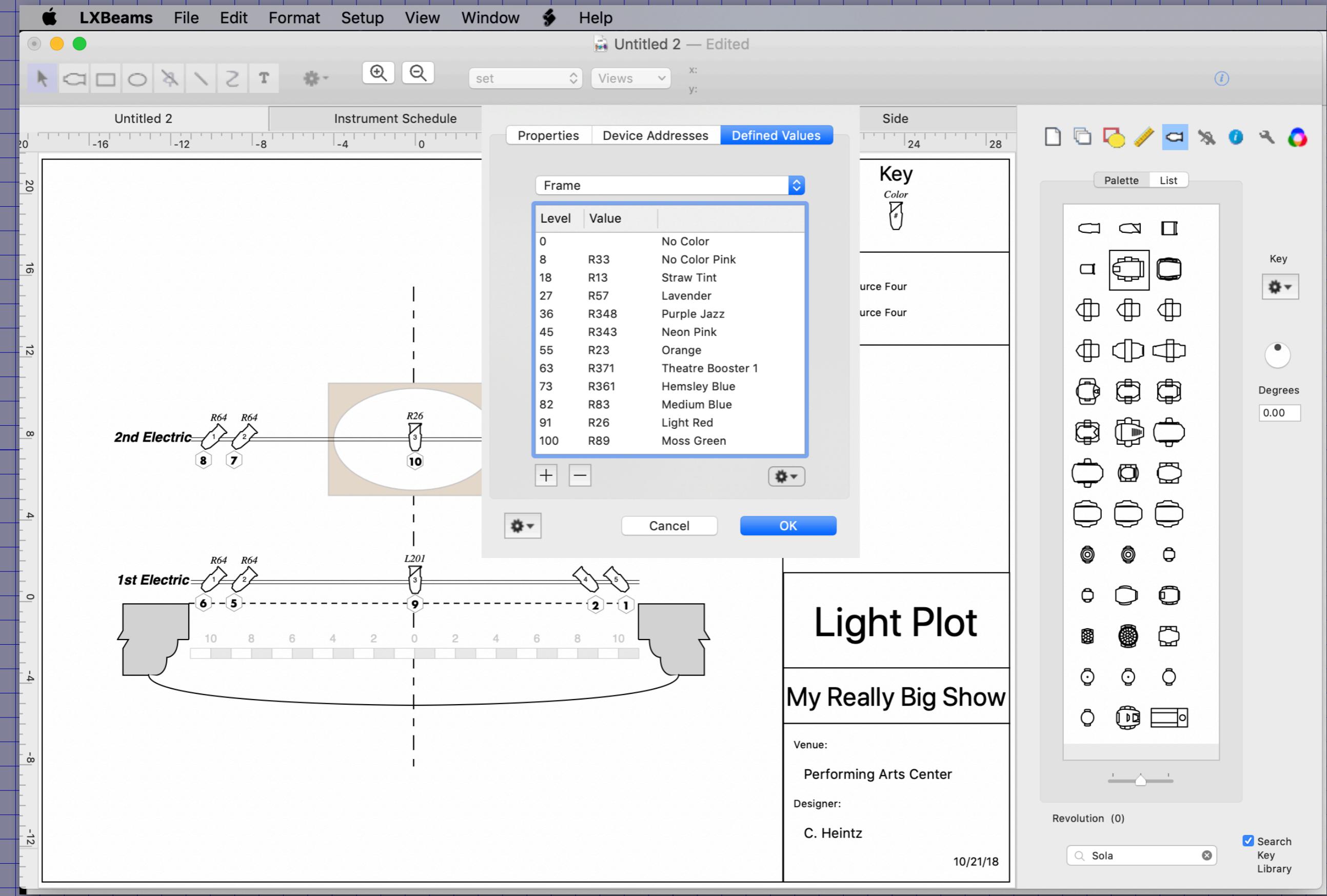


Defined values are for parameters with designated rather than continuous levels.

From the popup select the Frame parameter.

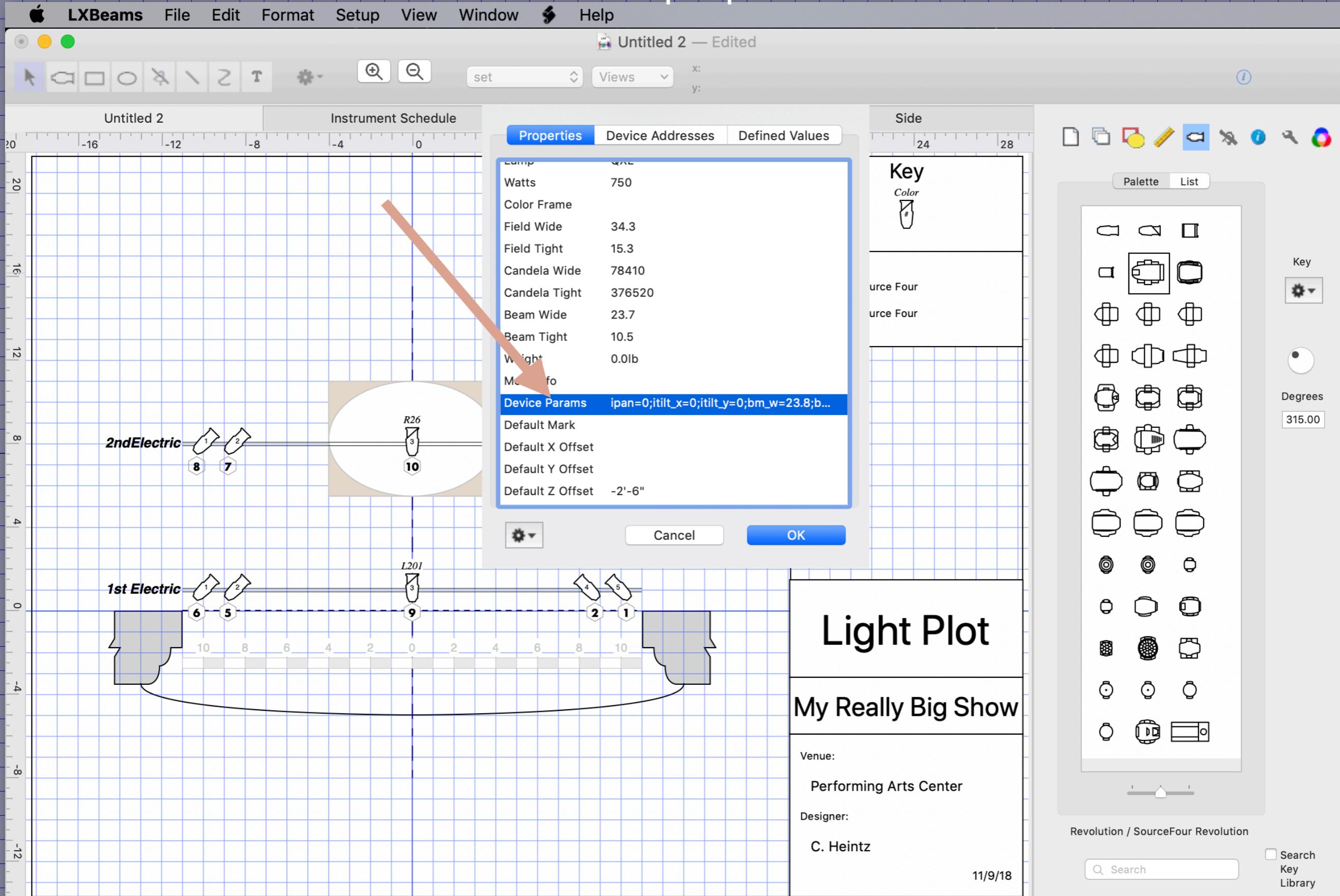


The ETC Revolution has a built-in color scroller.



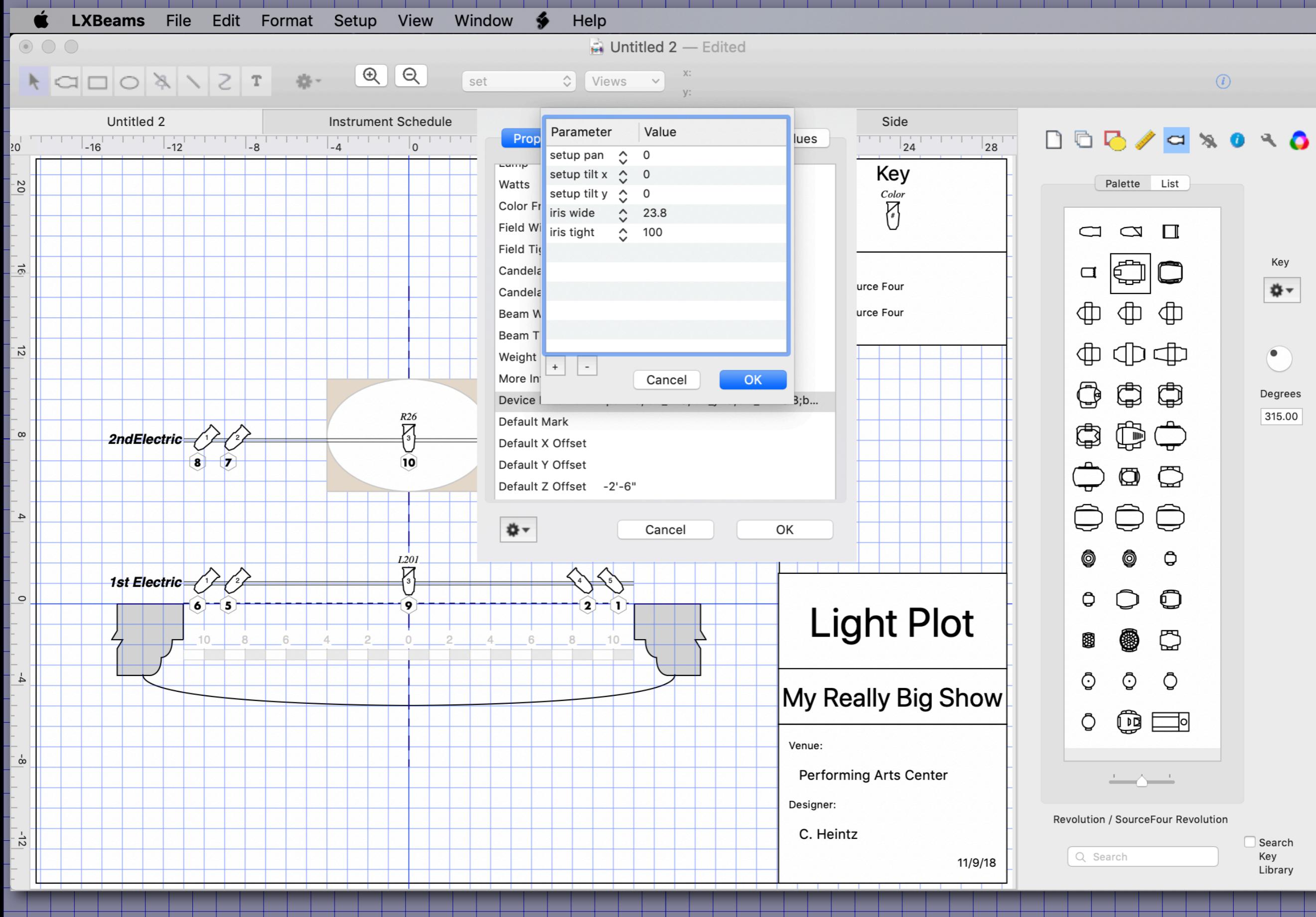
Scrollers have discrete levels for each color.

Switch to the properties tab.

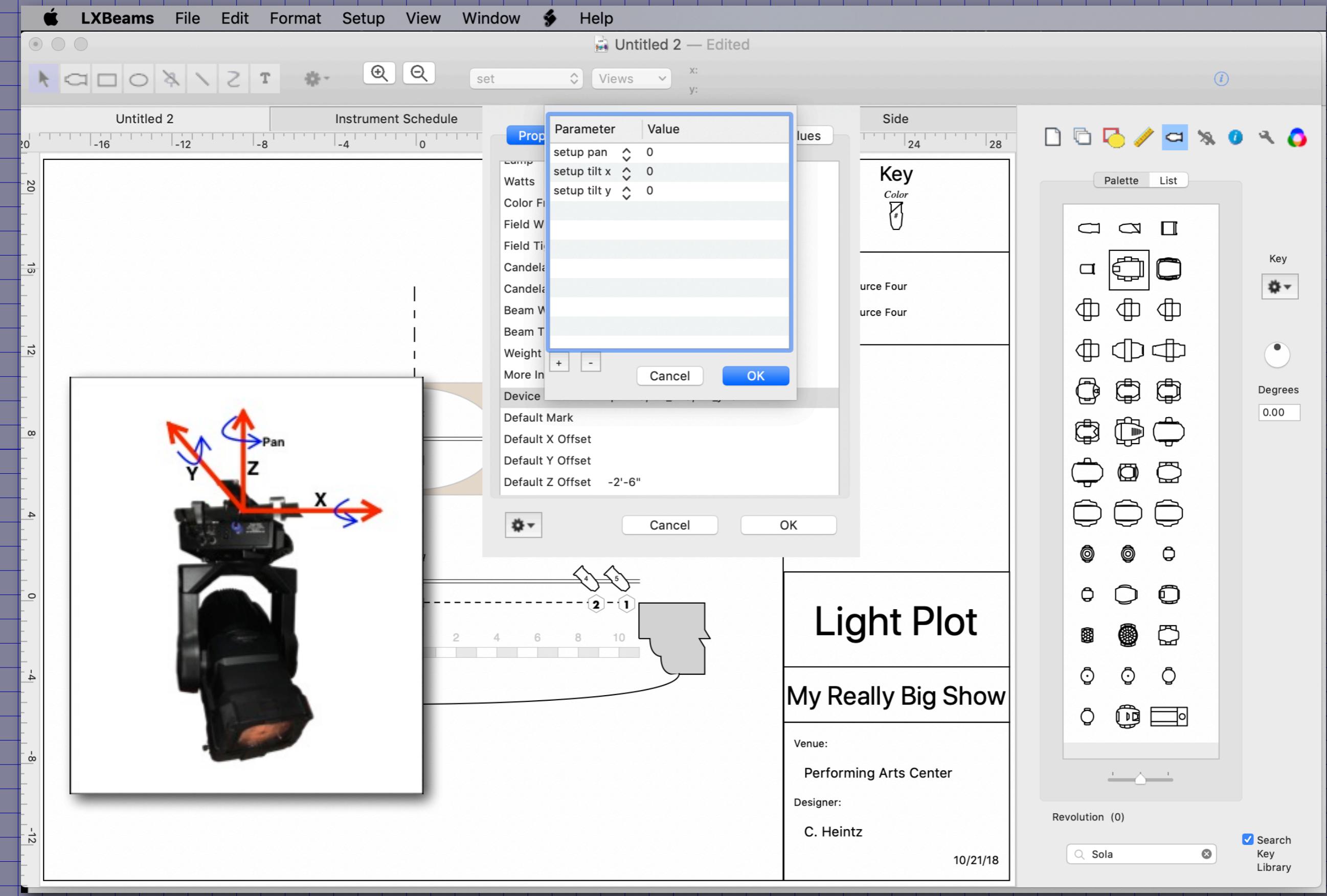


Scroll down and double-click "Device Params".

The device parameters property is a list of fields and values.

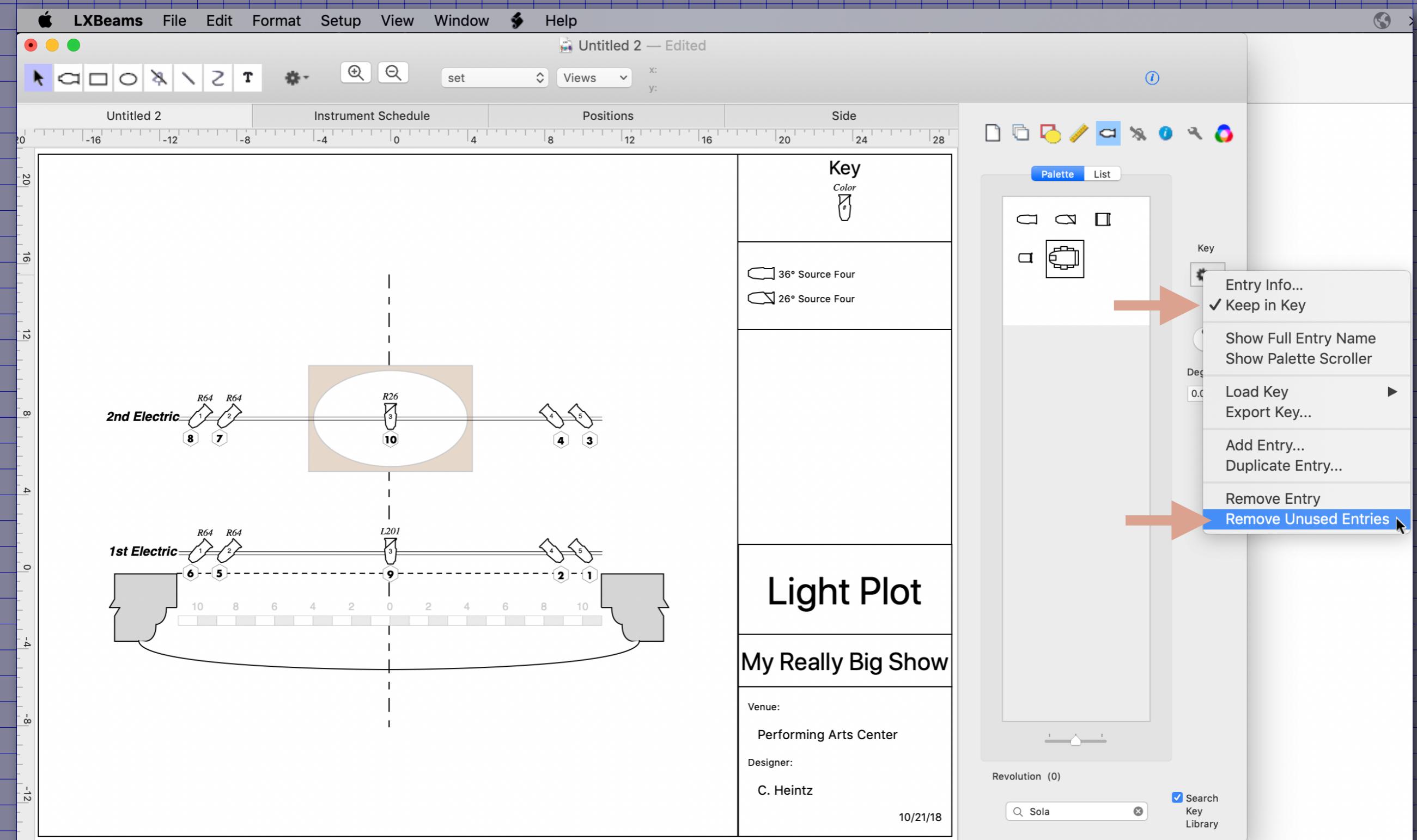


The “setup” device parameters define 3D orientation.



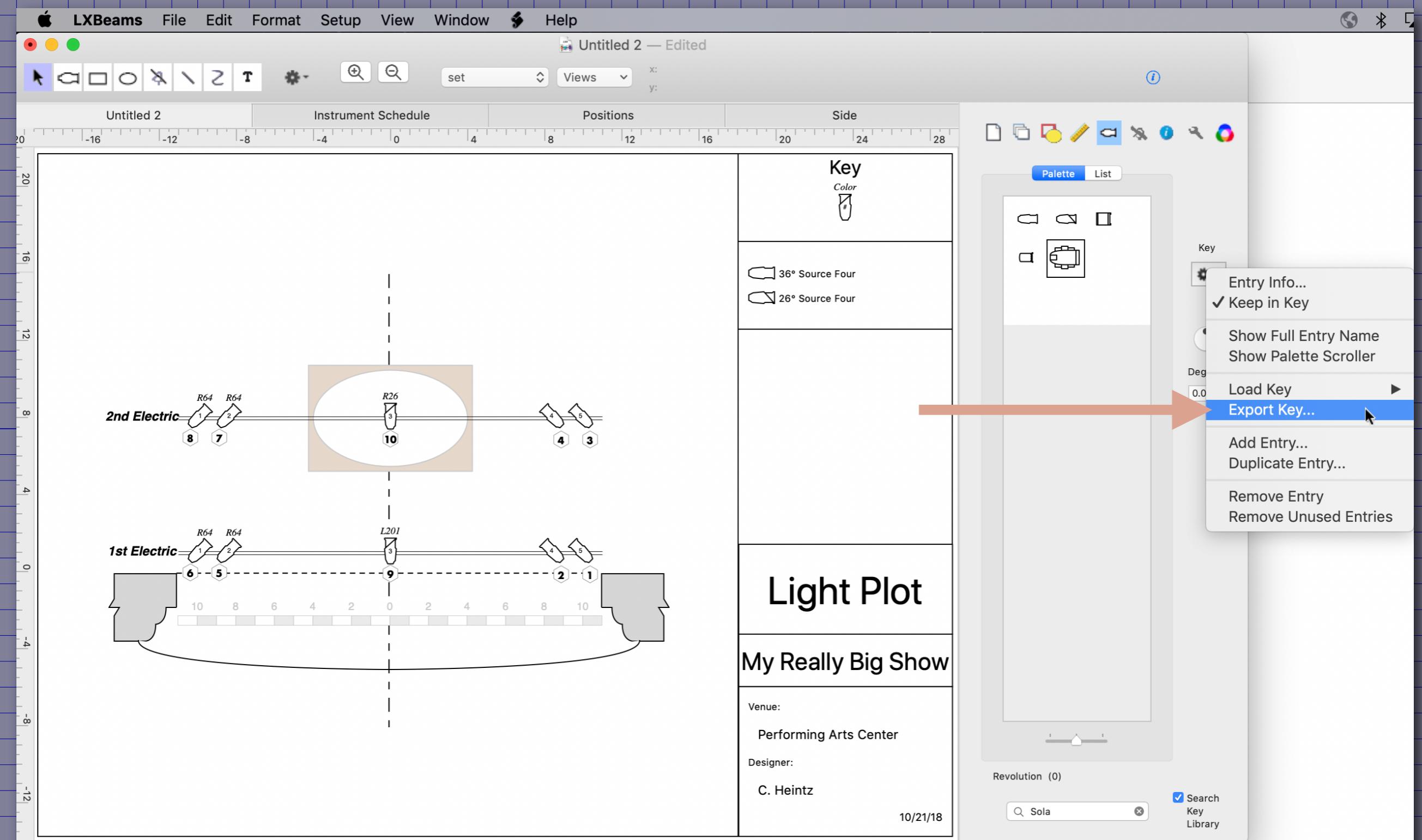
These are initial values that are filled in when a light is drawn.

Keep the Revolution in the key.
Then, select Remove Unused Entries..



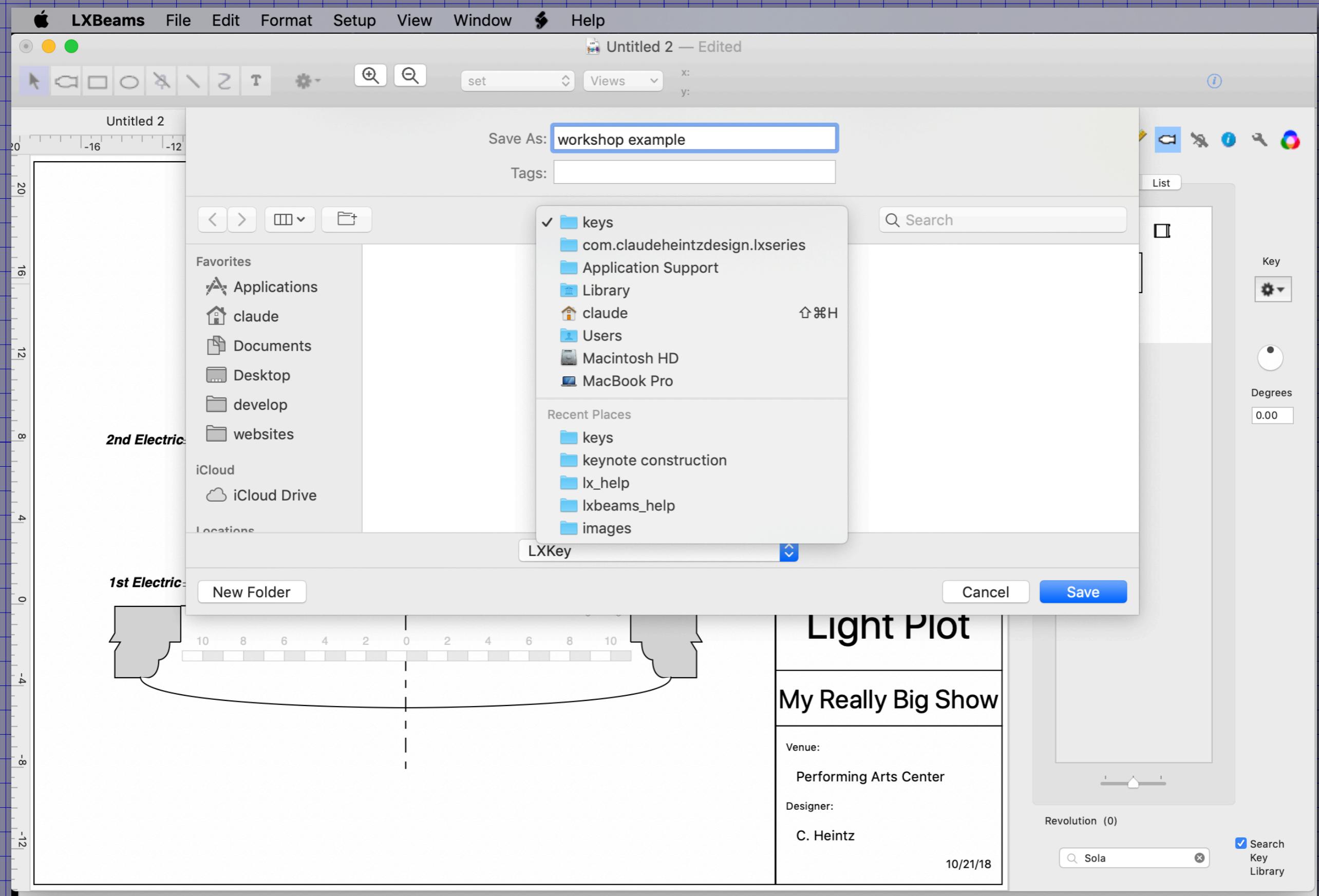
Remove unused happens when you load a key but can also be invoked by itself.

Use the Key popup and select "Export Key..."



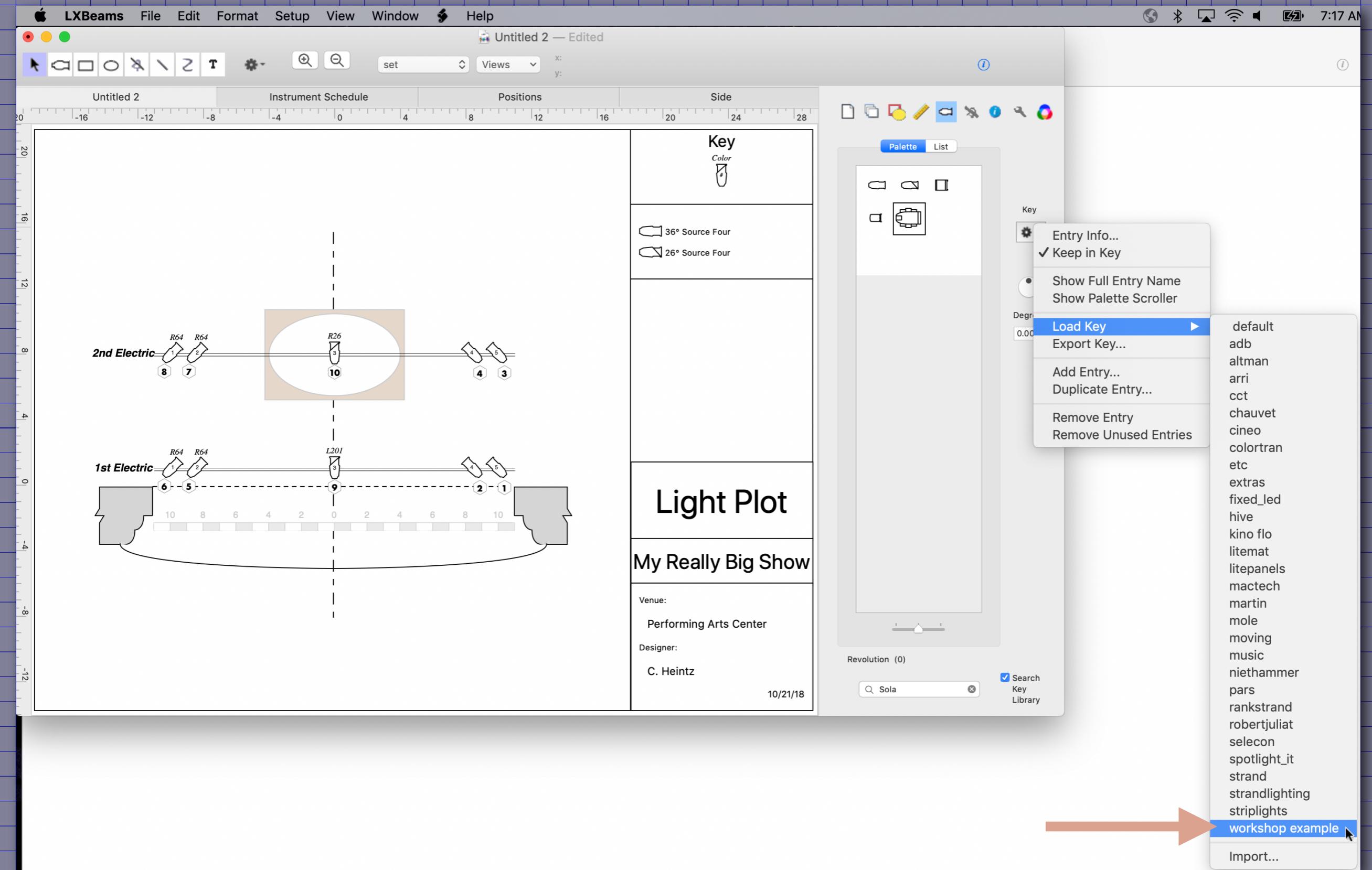
Once configured, a key can be saved and re-used.

Exporting the key to the user library makes it easily available.



The path to the user library is ~/Library/Application Support/com.claudeheintzdesign.lxseries/keys.

The saved key now appears in the Load Key menu.



In this section we've looked at

Loading and using keys from the library

- Loading a key removes unused entries and adds entries from the key being loaded.
- You can use the search function to find entries in the library.
- The messages window shows the results of the library search.

In this section we've looked at properties of key entries

- Automated fixtures have a table of device addresses.
- The order of the DMX addresses depends on the mode of the fixture.
- You can edit the device address table for other modes.
- Parameters with discrete levels can be listed in the defined values table.

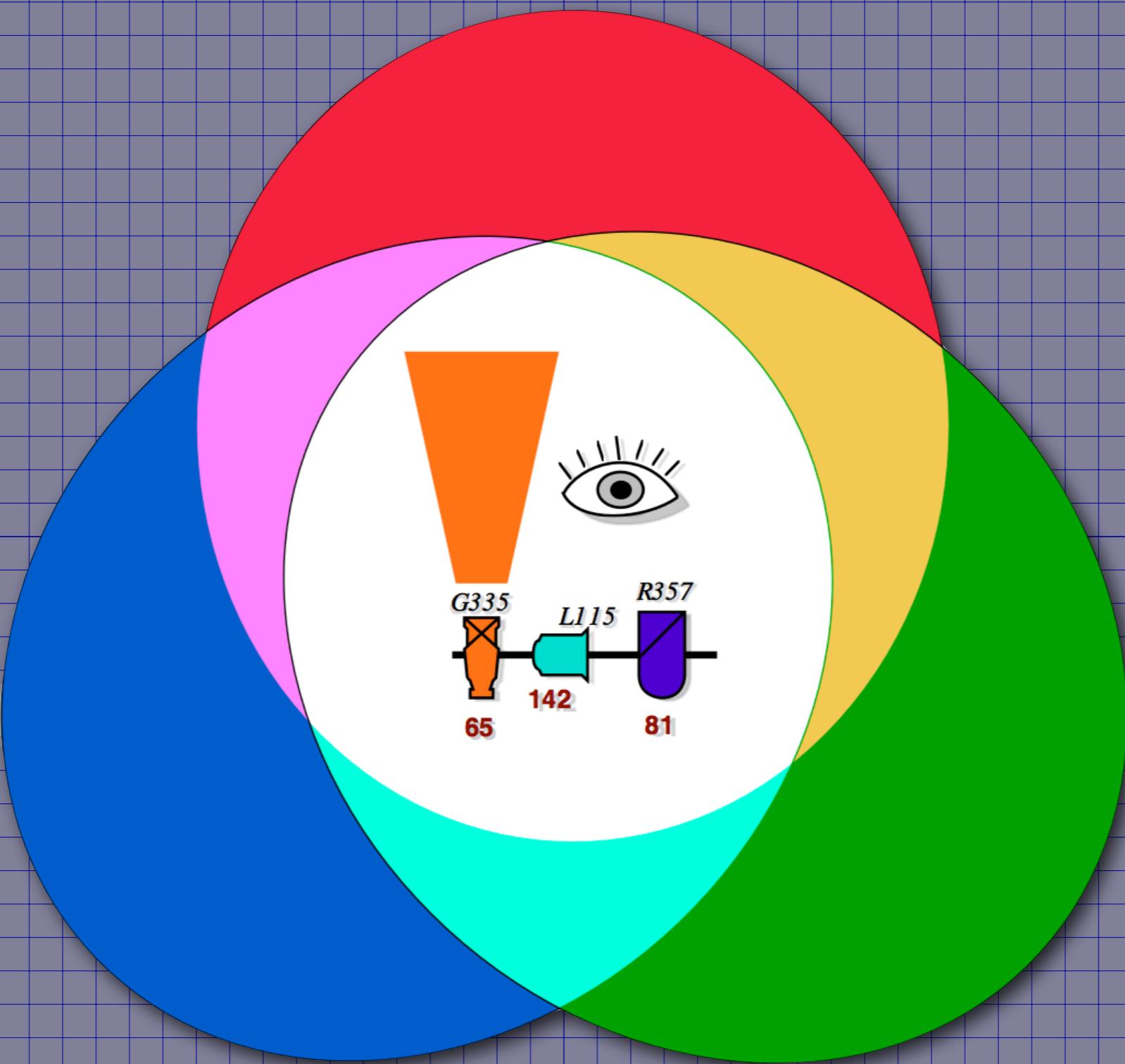
In this section we've looked at exporting and re-using key entries

- Keys are a set of entries for fixtures stored in a file.
- You can export the key from a plot and re-use it.
- Storing an exported key in the user library allows it to be found and used from the Load Key menu.

Try It Yourself

- In the studio file from the 1st exercise,
 - Add a Mole #407 baby to the key.
 - Add a SkyPanel.

<https://www.claudeheintzdesign.com/lx>



claudeheintzdesign@gmail.com

©2020