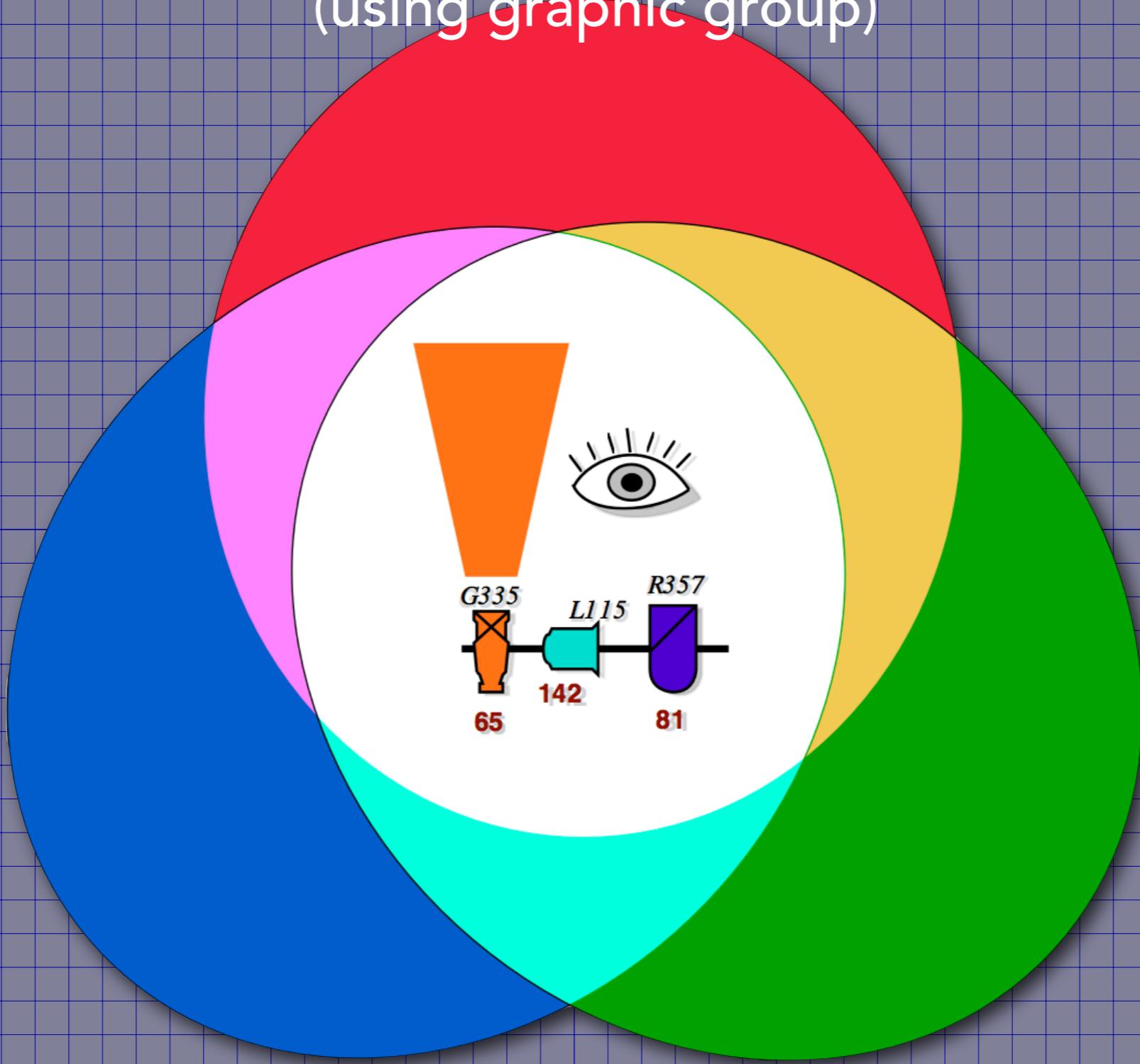


Custom Symbol Part 2

(using graphic group)

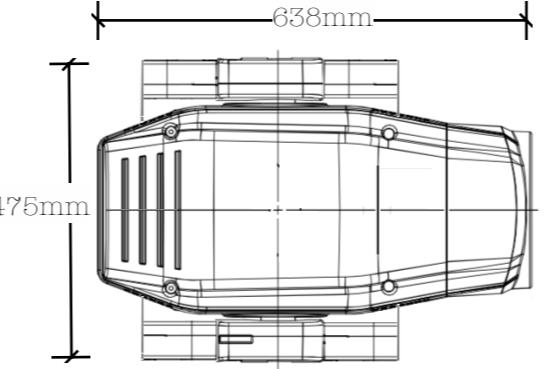


Before converting the graphic into a symbol/key entry, it is useful to have access to some basic information such as the name and what kind of fixture it is.

Super Wash 2000

Super Wash 2000	
LED Bright White Source	600w
DMX Channels	36
Pan	540°
Tilt	252°
Voltage	120v 240v
Power	8.6a 3.5a
Weight	42kg (92lbs)
Length	638mm
Width	475mm
Zoom Wash Mode	9°-51°
Zoom Beam Mode	5.5°-42°

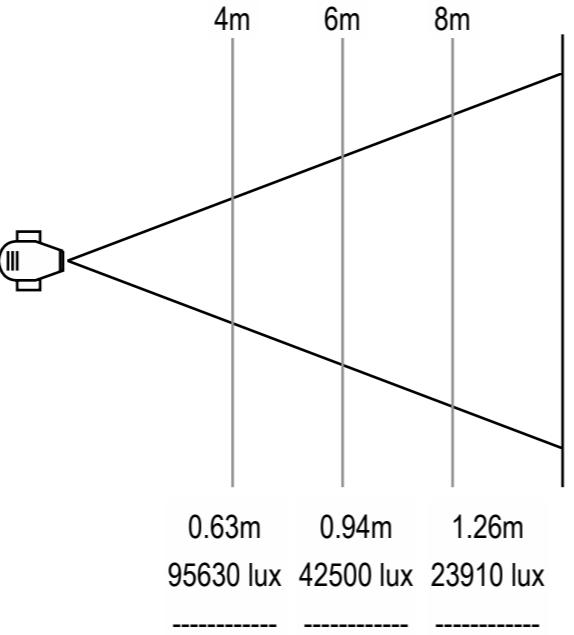
Super Wash 2000



Super Wash 2000

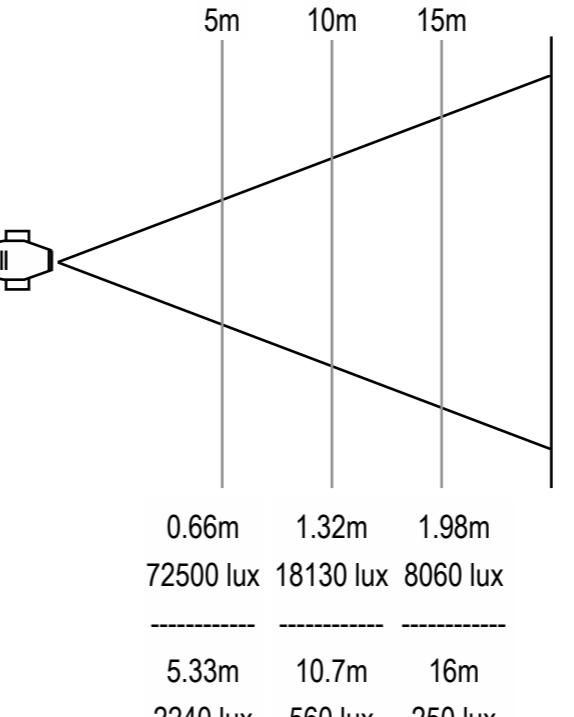
Function	Channel
Pan Coarse	1
Pan Fine	2
Tilt Coarse	3
Tilt Fine	4
Cyan	5
Magenta	6
Yellow	7
Focus	8
Zoom	9
Iris	10
Gobo	11

Super Wash 2000 Wash Mode



Distance (m)	Intensity (lux)
4m	95630 lux
6m	42500 lux
8m	23910 lux
1.26m	0.63m
1.26m	0.94m
1.26m	1.26m

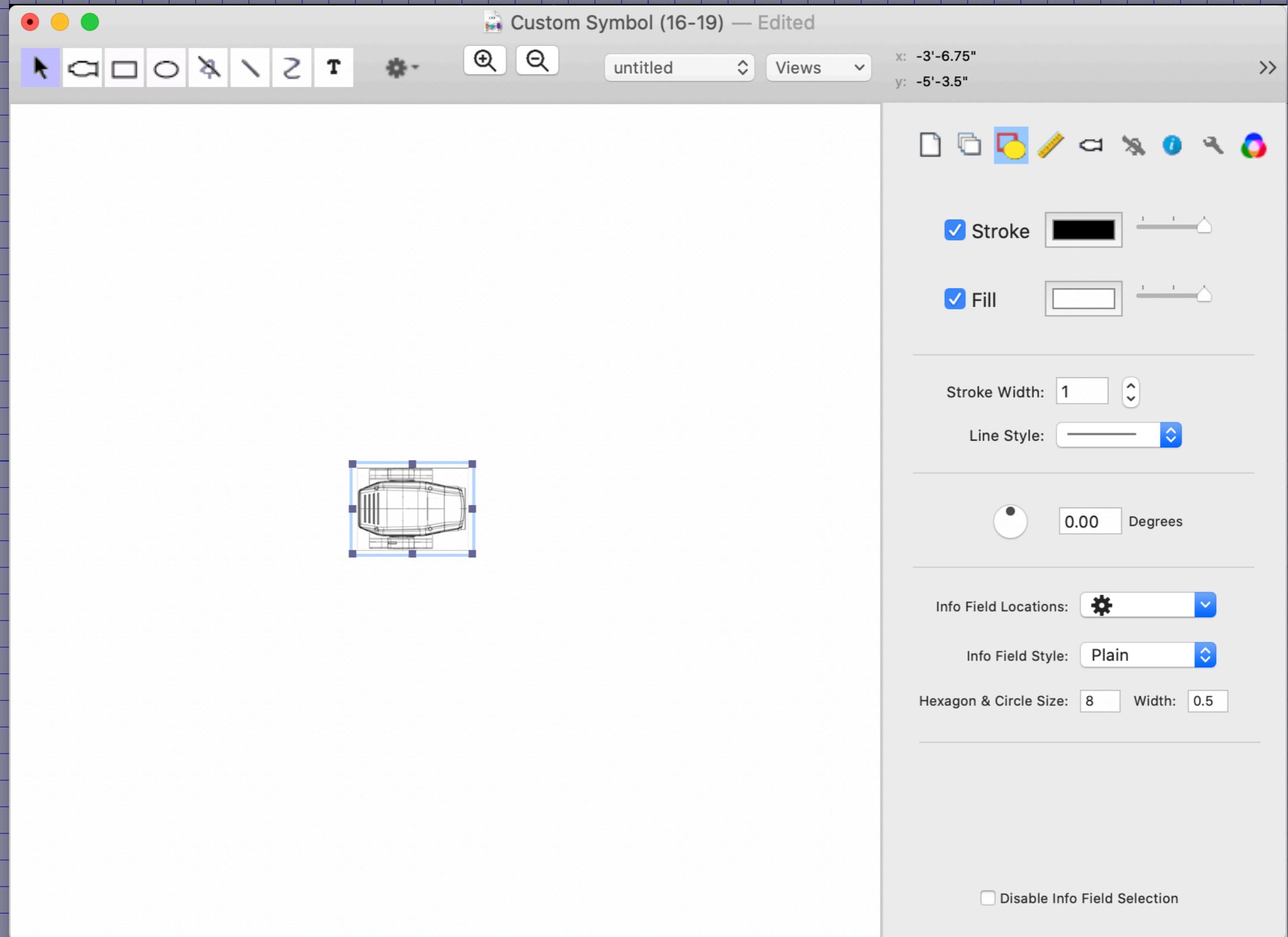
Super Wash 2000 Beam Mode



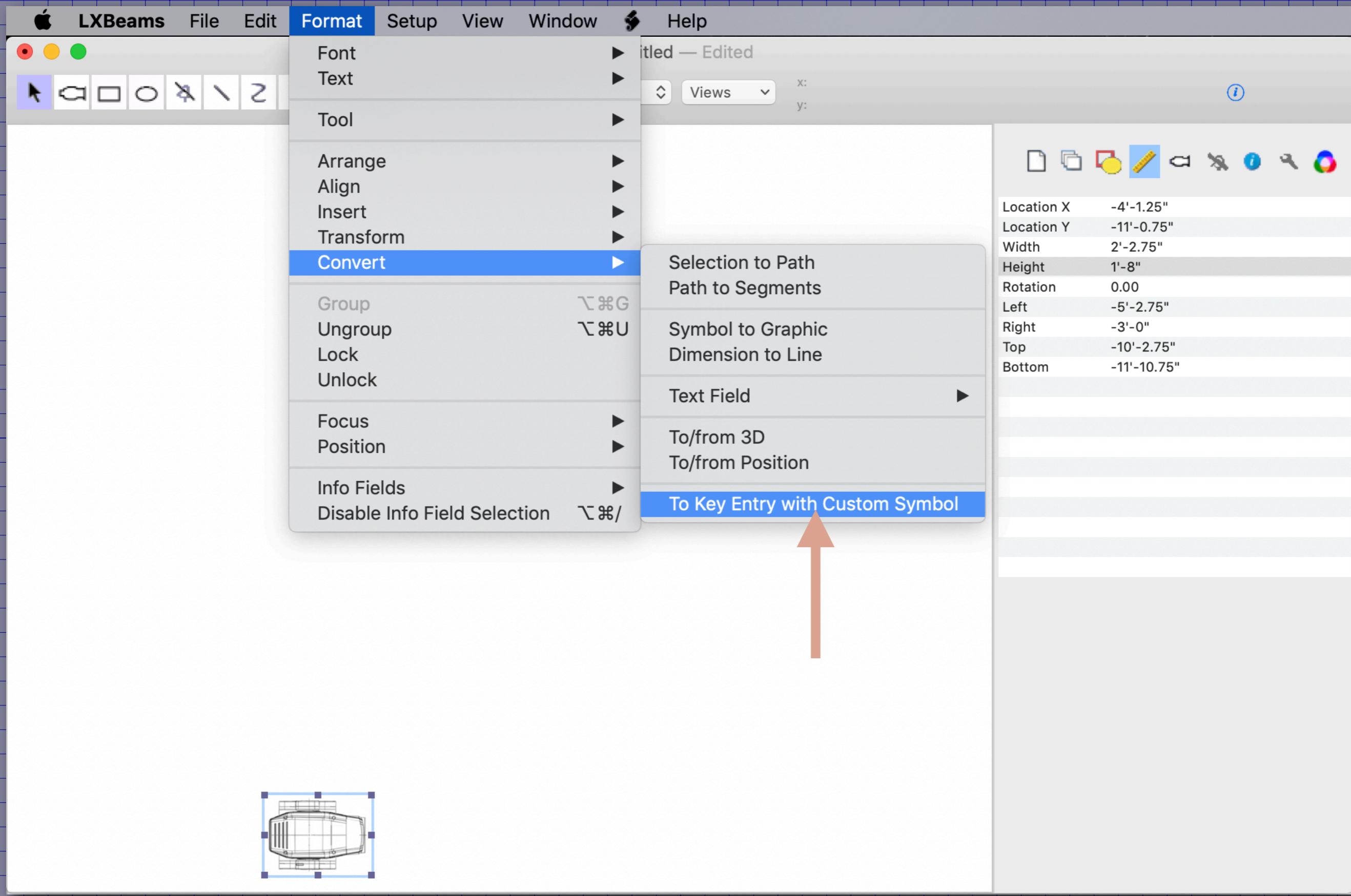
Distance (m)	Intensity (lux)
5m	72500 lux
10m	18130 lux
15m	8060 lux
16m	5.33m
16m	10.7m
16m	16m
16m	2240 lux
16m	560 lux
16m	250 lux

This "Super Wash 2000" is a mover with CMY color mixing.

Start by selecting the group created in part 1

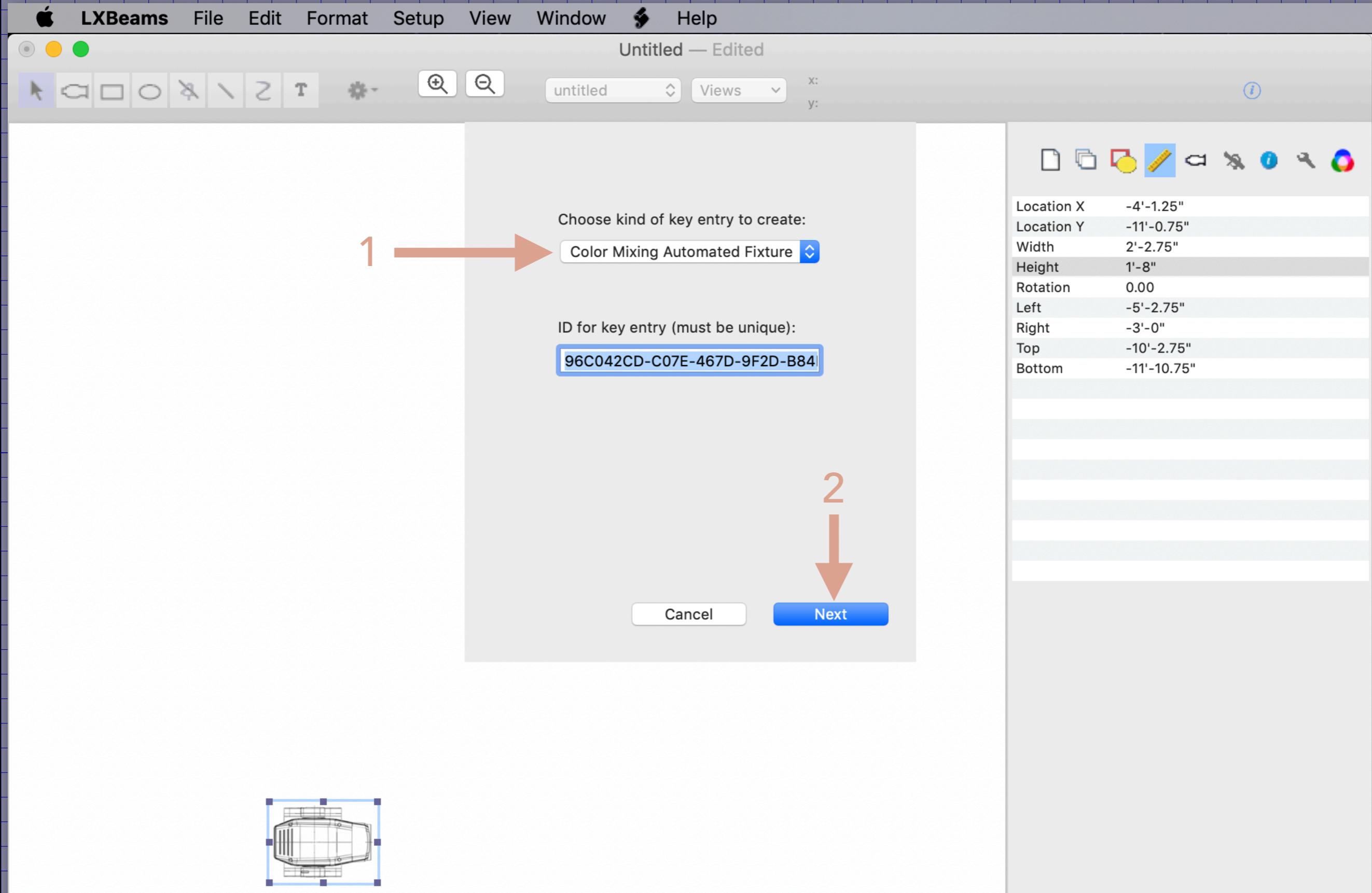


Choose Format → Convert → To Key Entry with Custom Symbol.



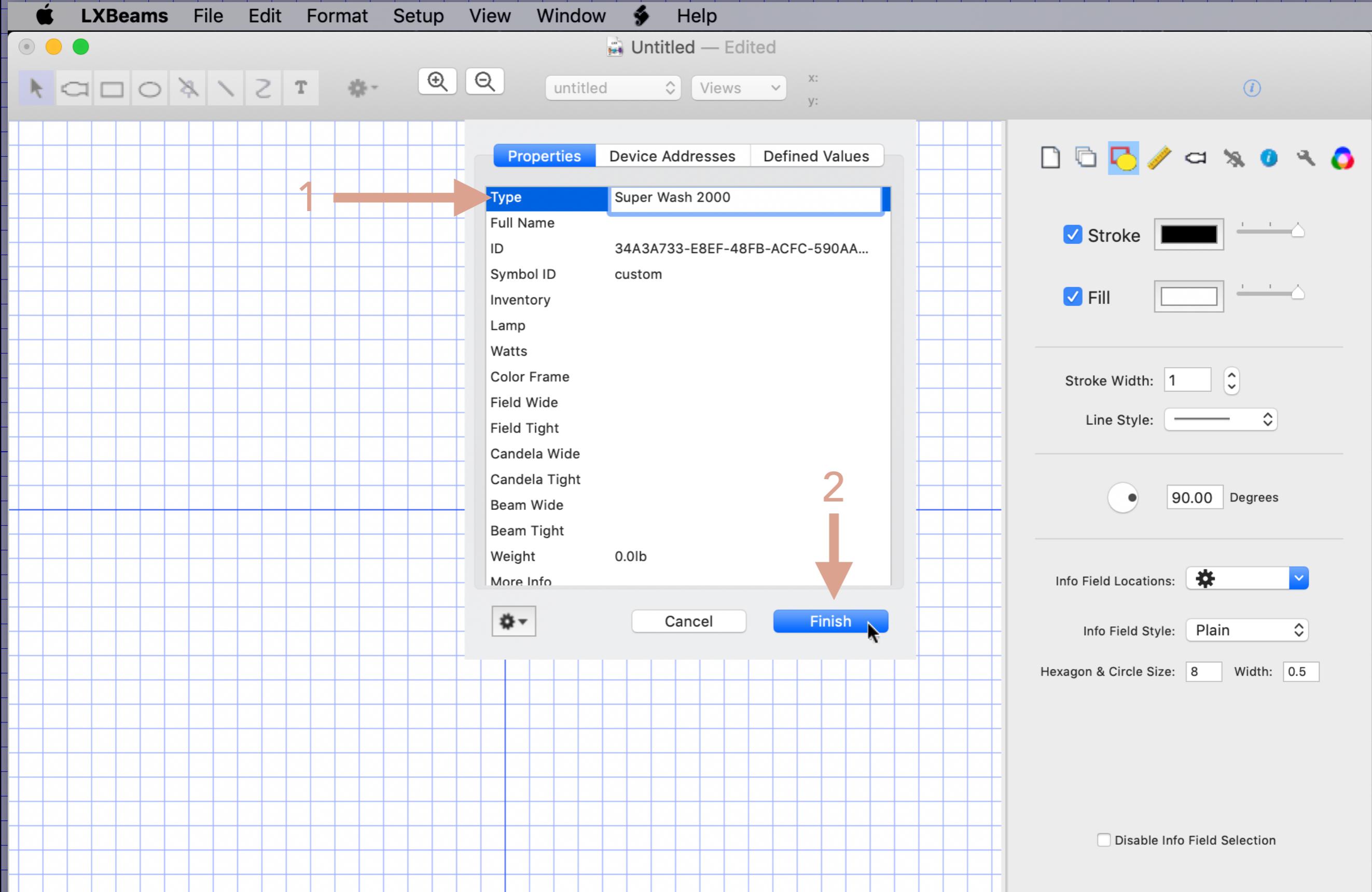
The group needs to be selected!

Choose “Color Mixing Automated Fixture” from the list of kinds.



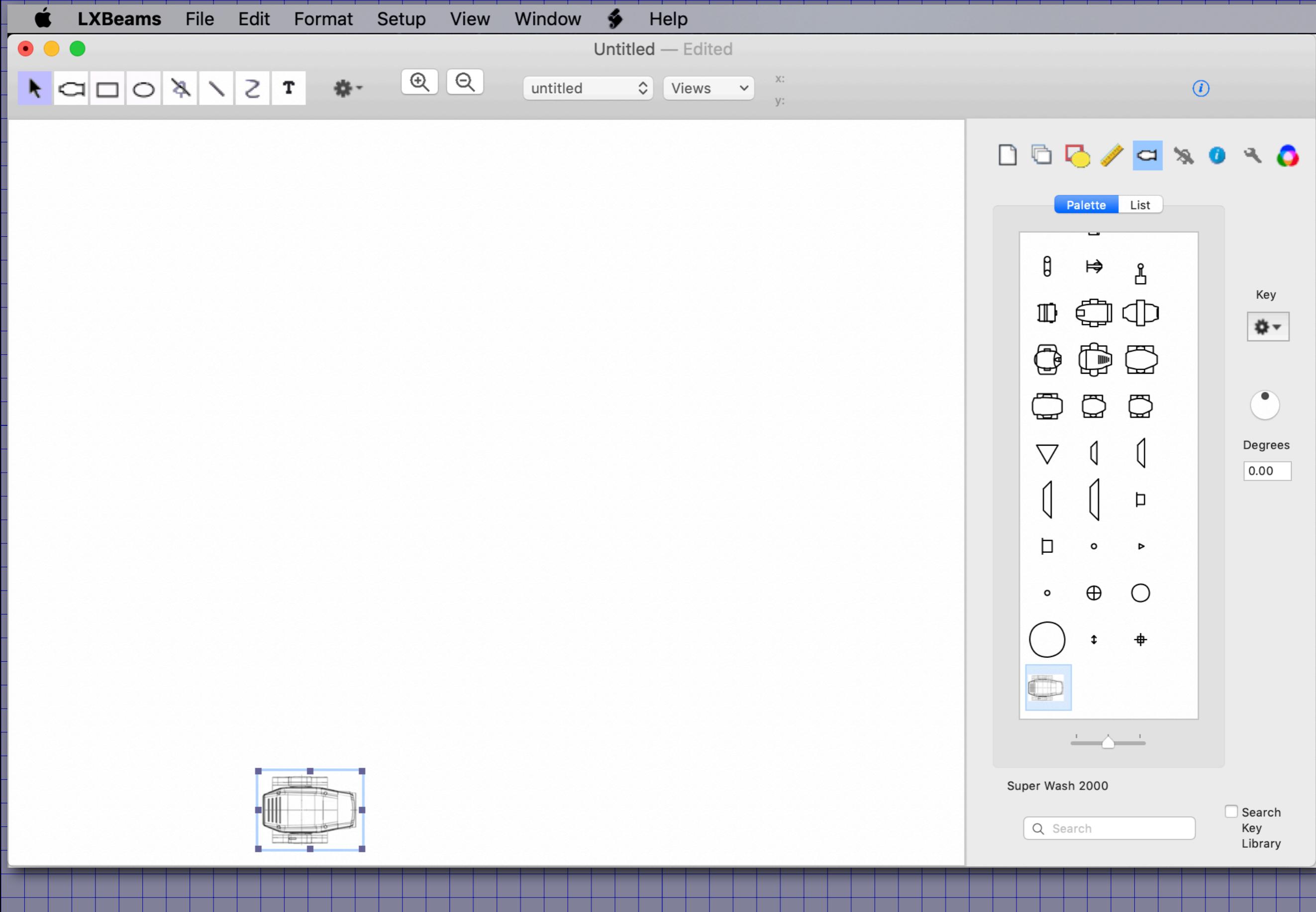
Leave the generated unique ID as it is. And then click Next.

Fill in the type name.

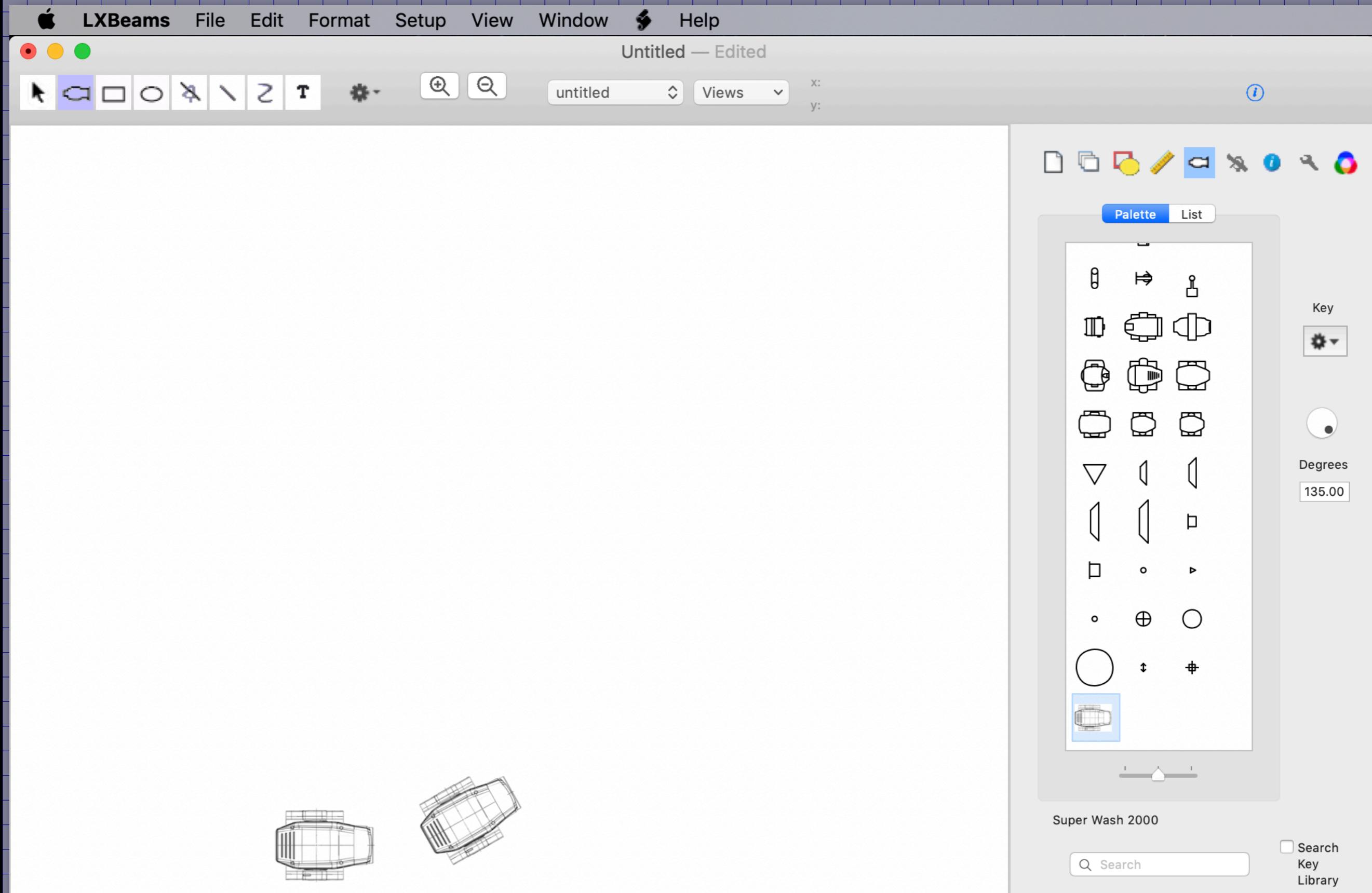


(You can edit the other properties later.)

The new symbol appears at the bottom of the palette.



Use the symbol tool and try drawing using the new symbol.



Double-click the symbol in the palette to open the key entry sheet.

Super Wash 2000

Super Wash 2000 Specifications	
LED Bright White Source	600w
DMX Channels	36
Pan	540°
Tilt	252°
Voltage	120v 240v
Power	8.6a 3.5a
Weight	42kg (92lbs)
Length	638mm
Width	475mm
Zoom Wash Mode	9°-51°
Zoom Beam Mode	5.5°-42°

Super Wash 2000

638mm

475mm

Super Wash 2000

Function	Channel
Pan Coarse	1
Pan Fine	2
Tilt Coarse	3
Tilt Fine	4
Cyan	5
Magenta	6
Yellow	7
Focus	8
Zoom	9
Iris	10
Gobo	11

Super Wash 2000 Wash Mode

4m 6m 8m

0.63m 0.94m 1.26m

95630 lux 42500 lux 23910 lux

3.9m 5.8m 7.7m

3000 lux 1330 lux 750 lux

Super Wash 2000 Beam Mode

5m 10m 15m

0.66m 1.32m 1.98m

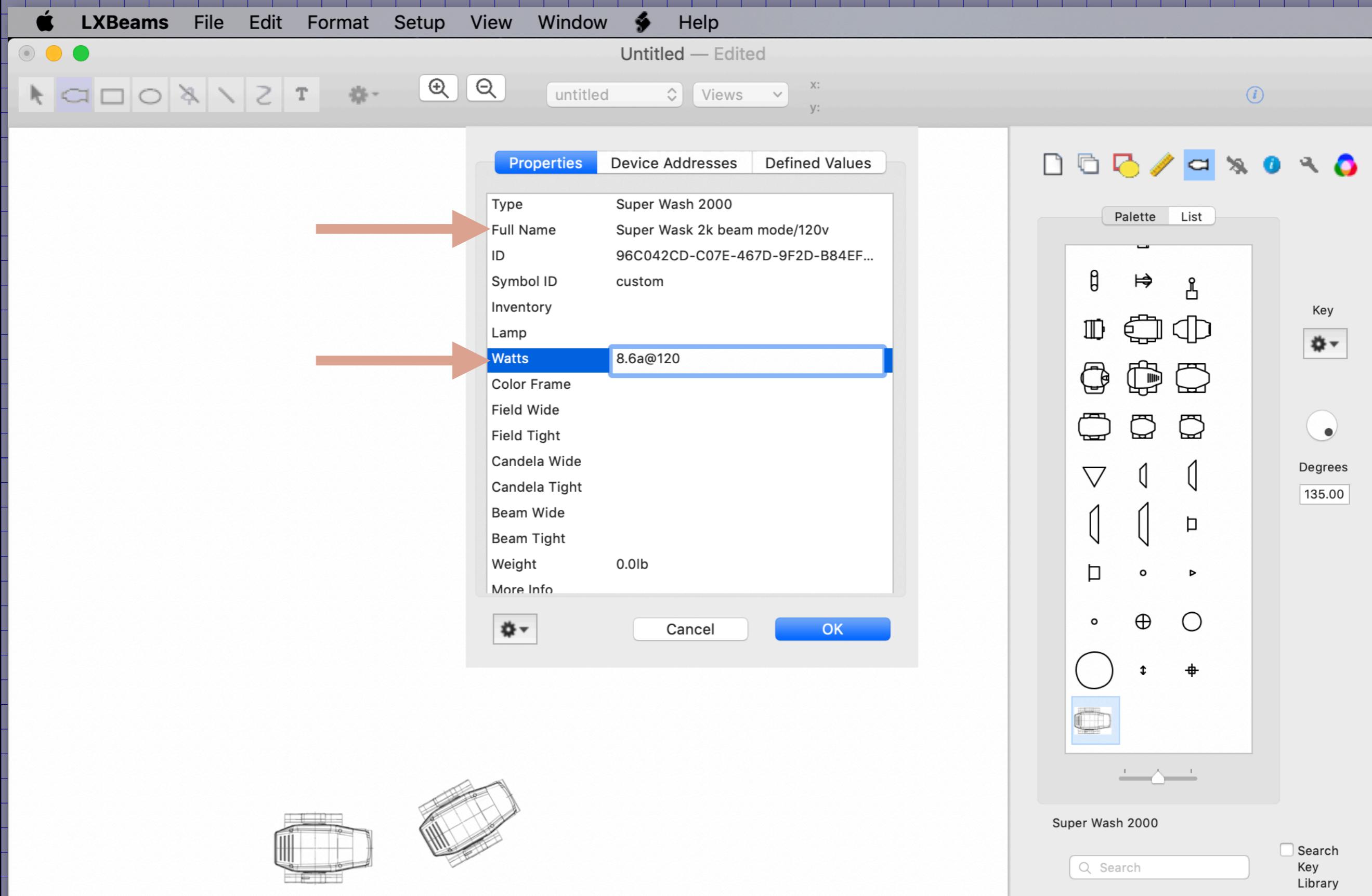
72500 lux 18130 lux 8060 lux

5.33m 10.7m 16m

2240 lux 560 lux 250 lux

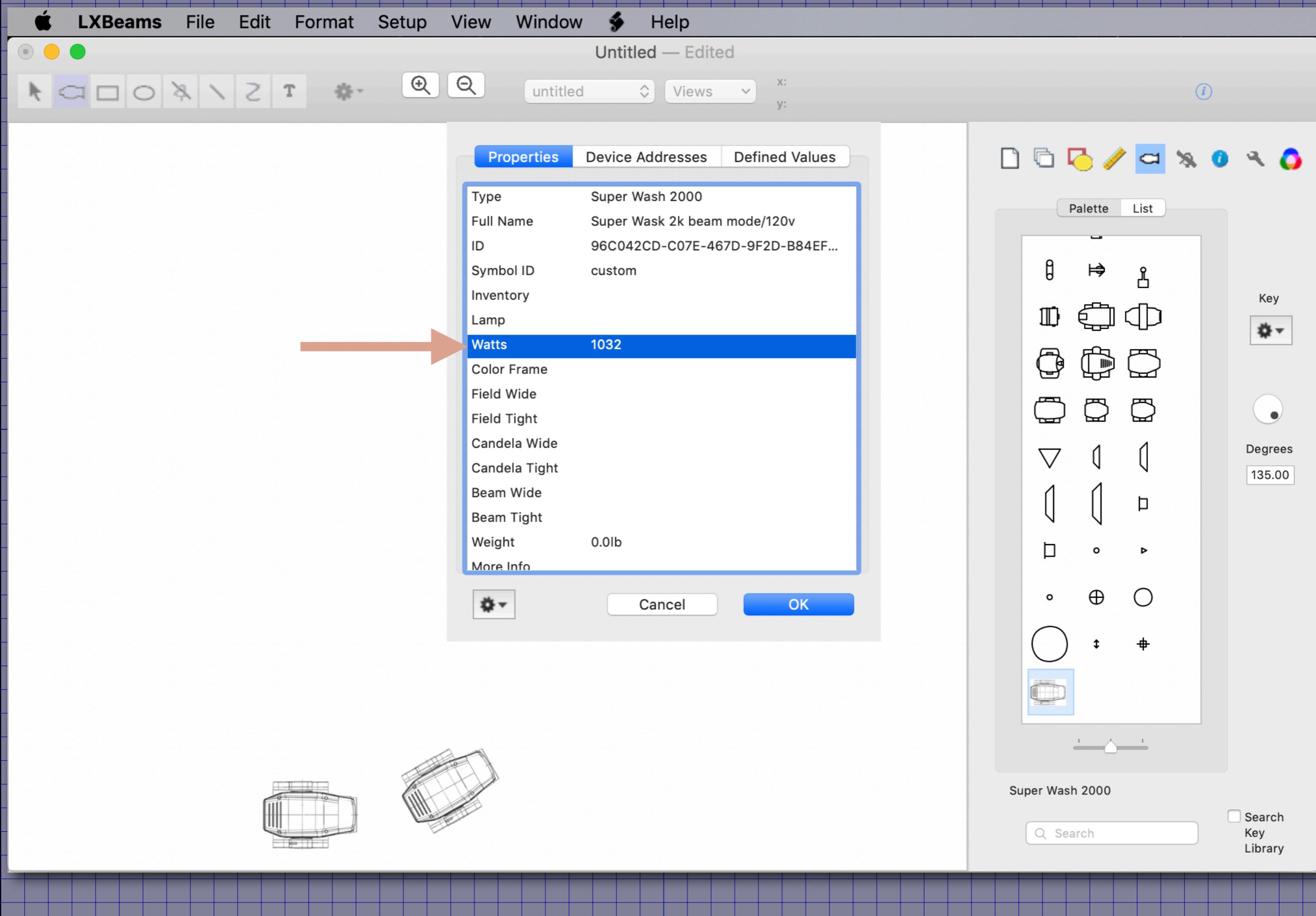
The “Super Wash” has 2 modes, beam and wash, as well as dual voltage.

The full name allows for details like beam mode and 120v.



Enter "8.6a@120v" in the row for the Watts property.

LXBeams calculates the watts given volts and amps.



The specifications show the zoom range of the beam but not the field.

Super Wash 2000

Super Wash 2000 Specifications	
LED Bright White Source	600w
DMX Channels	36
Pan	540°
Tilt	252°
Voltage	120v 240v
Power	8.6a 3.5a
Weight	42kg (92lbs)
Length	638mm
Width	475mm
Zoom Wash Mode	9°-51°
Zoom Beam Mode	5.5°-42°

Super Wash 2000

638mm

475mm

Super Wash 2000

Function	Channel
Pan Coarse	1
Pan Fine	2
Tilt Coarse	3
Tilt Fine	4
Cyan	5
Magenta	6
Yellow	7
Focus	8
Zoom	9
Iris	10
Gobo	11

Super Wash 2000 Wash Mode

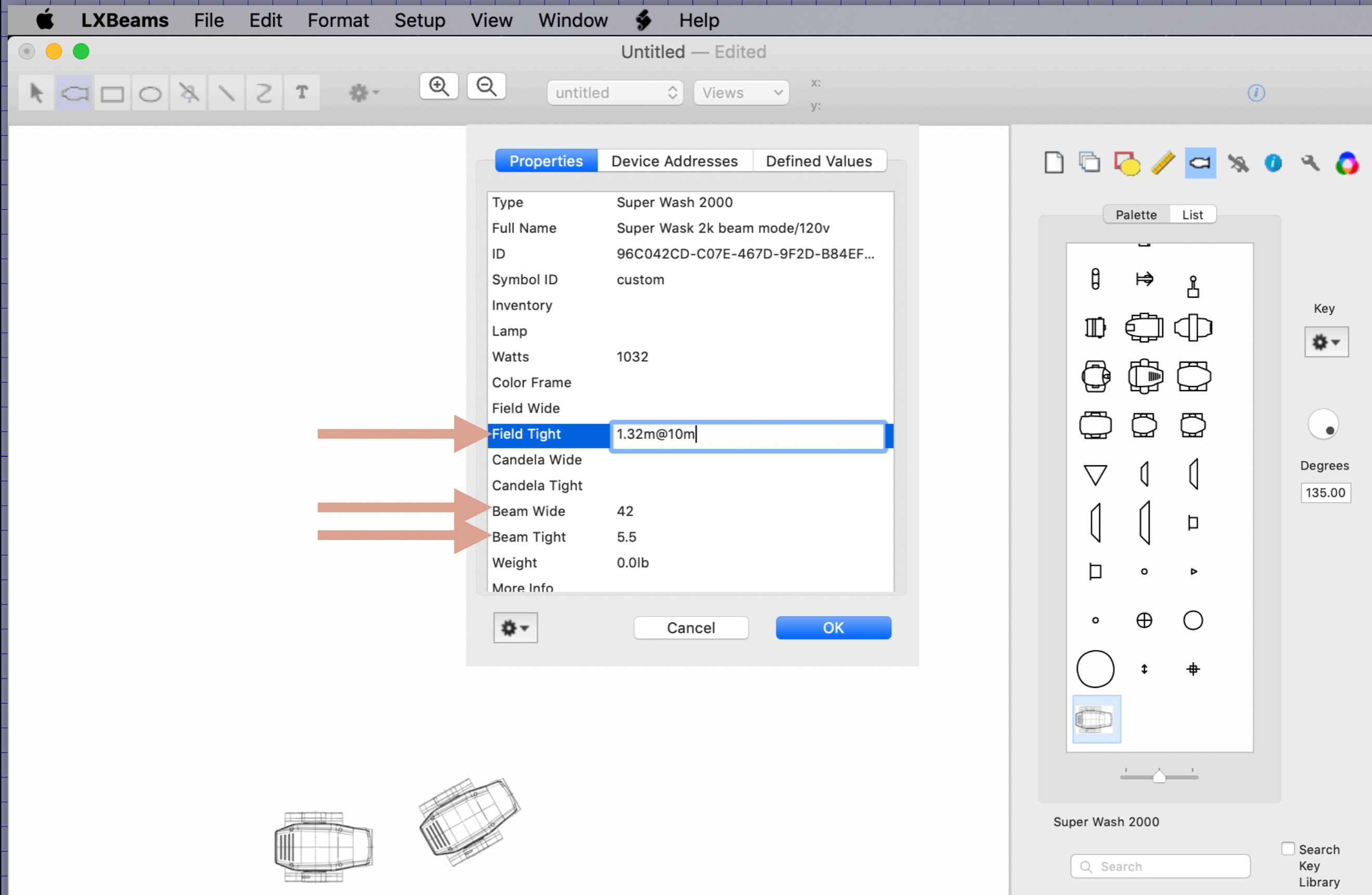
Distance (m)	Beam Angle (degrees)	Lux (lux)
0.63	9.56	95630
0.94	12.5	42500
1.26	16.5	23910
3.9	39	3000
5.8	58	1330
7.7	77	750

Super Wash 2000 Beam Mode

Distance (m)	Beam Angle (degrees)	Lux (lux)
0.66	7.25	72500
1.32	14.5	18130
1.98	21.5	8060
5.33	53.3	2240
10.7	107	560
16	160	250

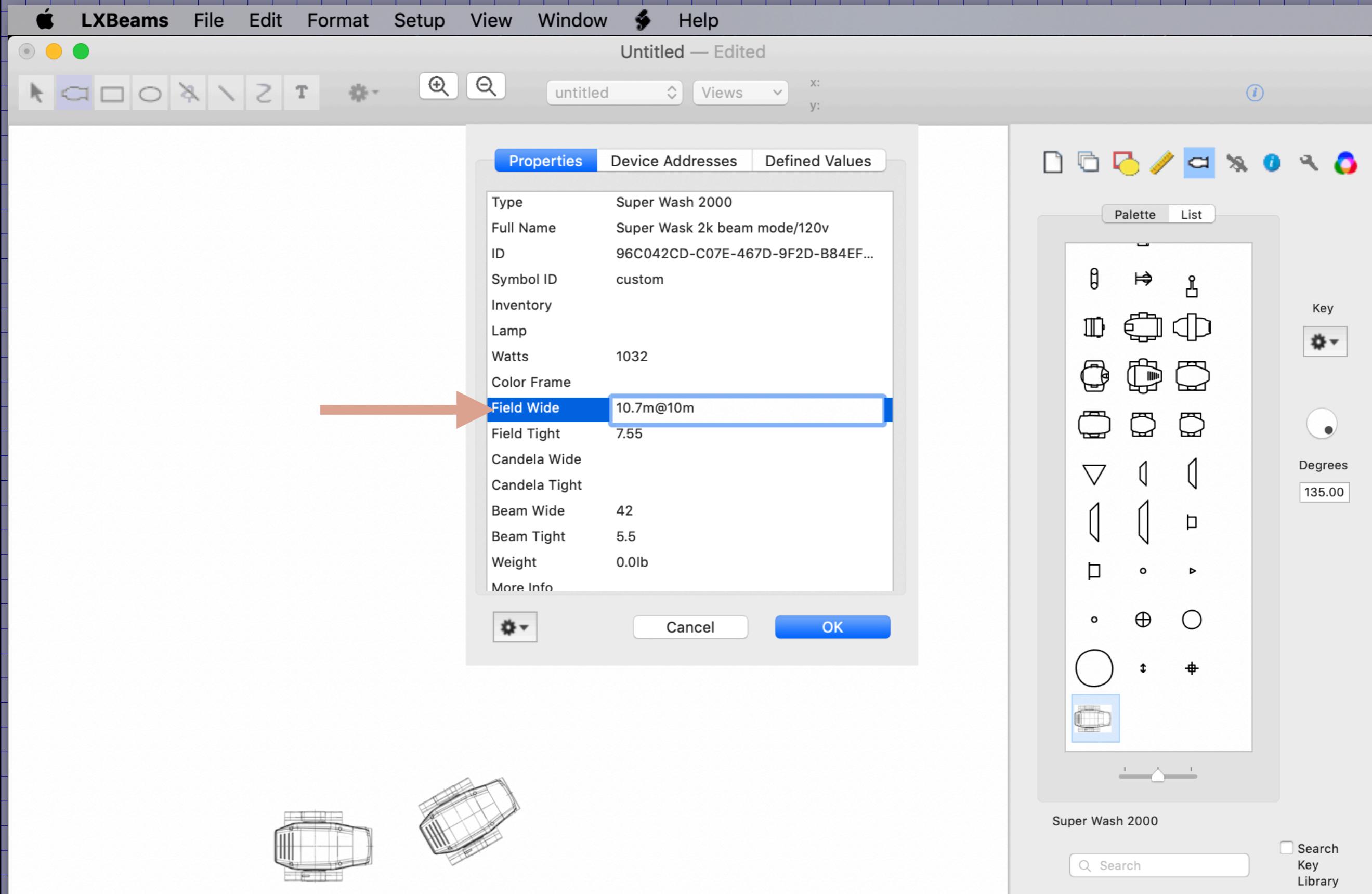
However, the size at various distances is shown.

You can directly enter 42 and 5.5 for the beam (from the specs).



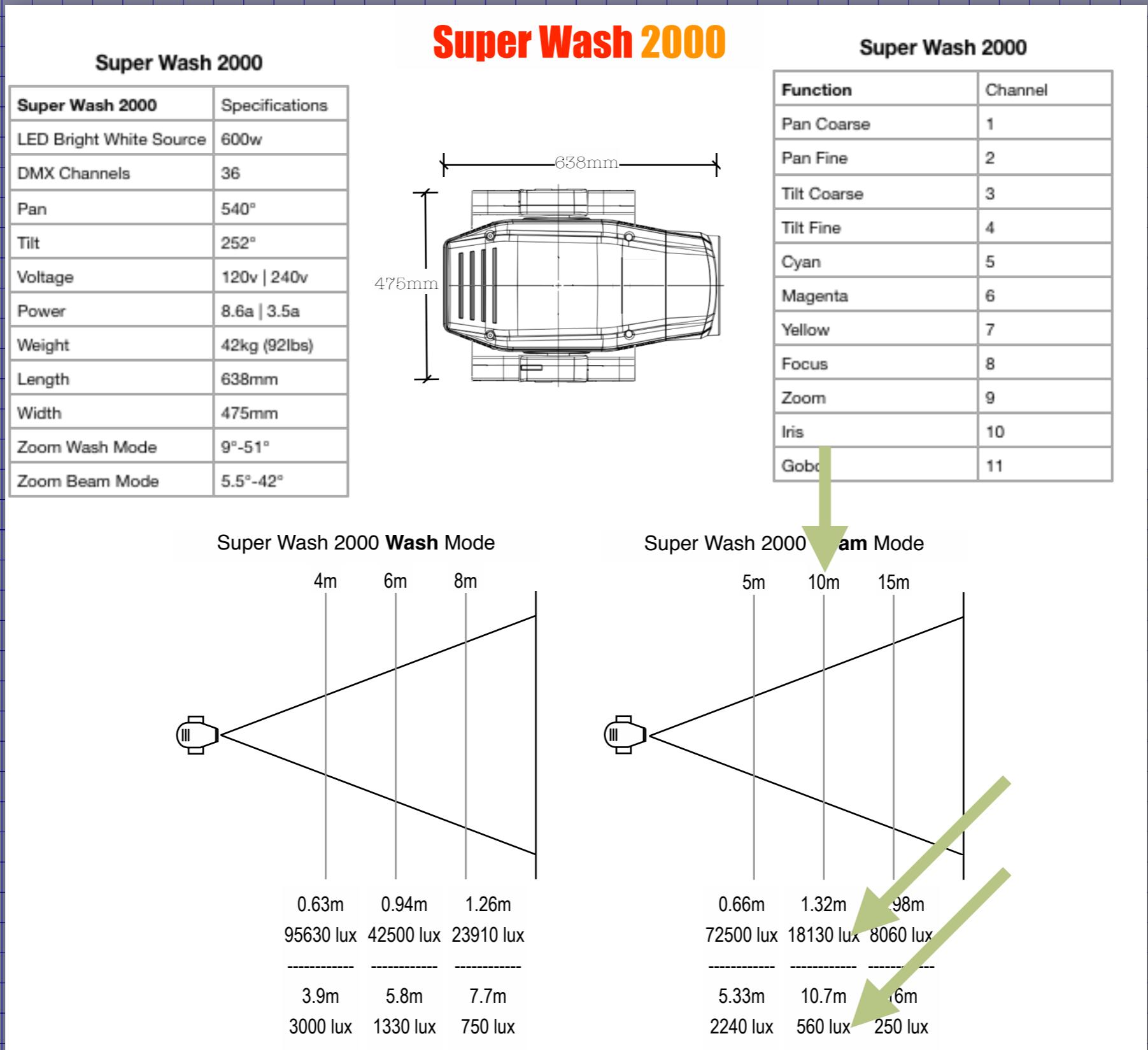
And, you can enter 1.32m@10m for the Field Tight property.

LXBeams does the math and comes up with 7.55 degrees.



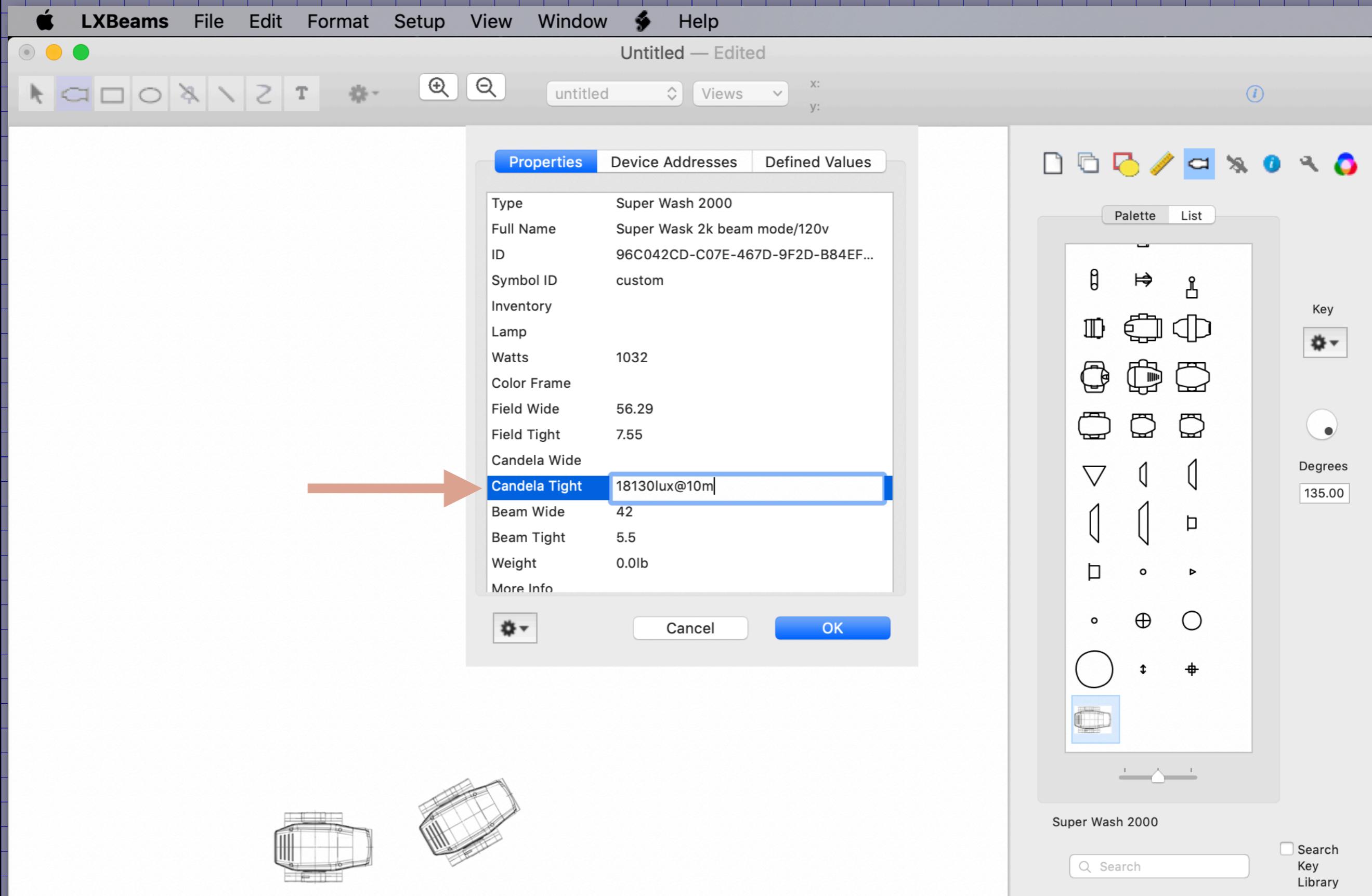
Similarly, you can enter 10.7m@10m for the field wide.

Candela, if not given, can be calculated as well.

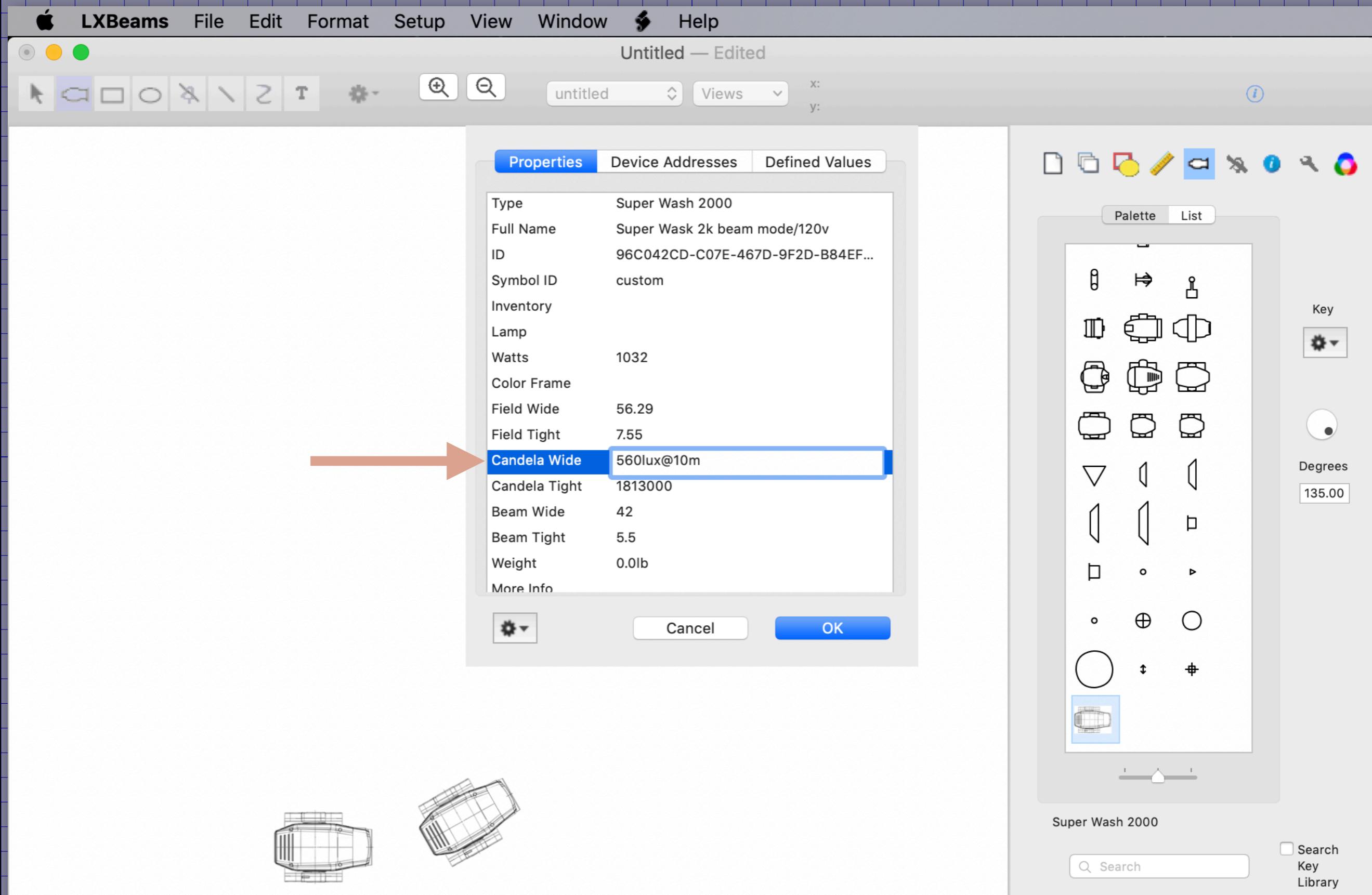


You can calculate it if you know the illumination at a given distance.

Enter 18130lux@10m for the Candela Tight property

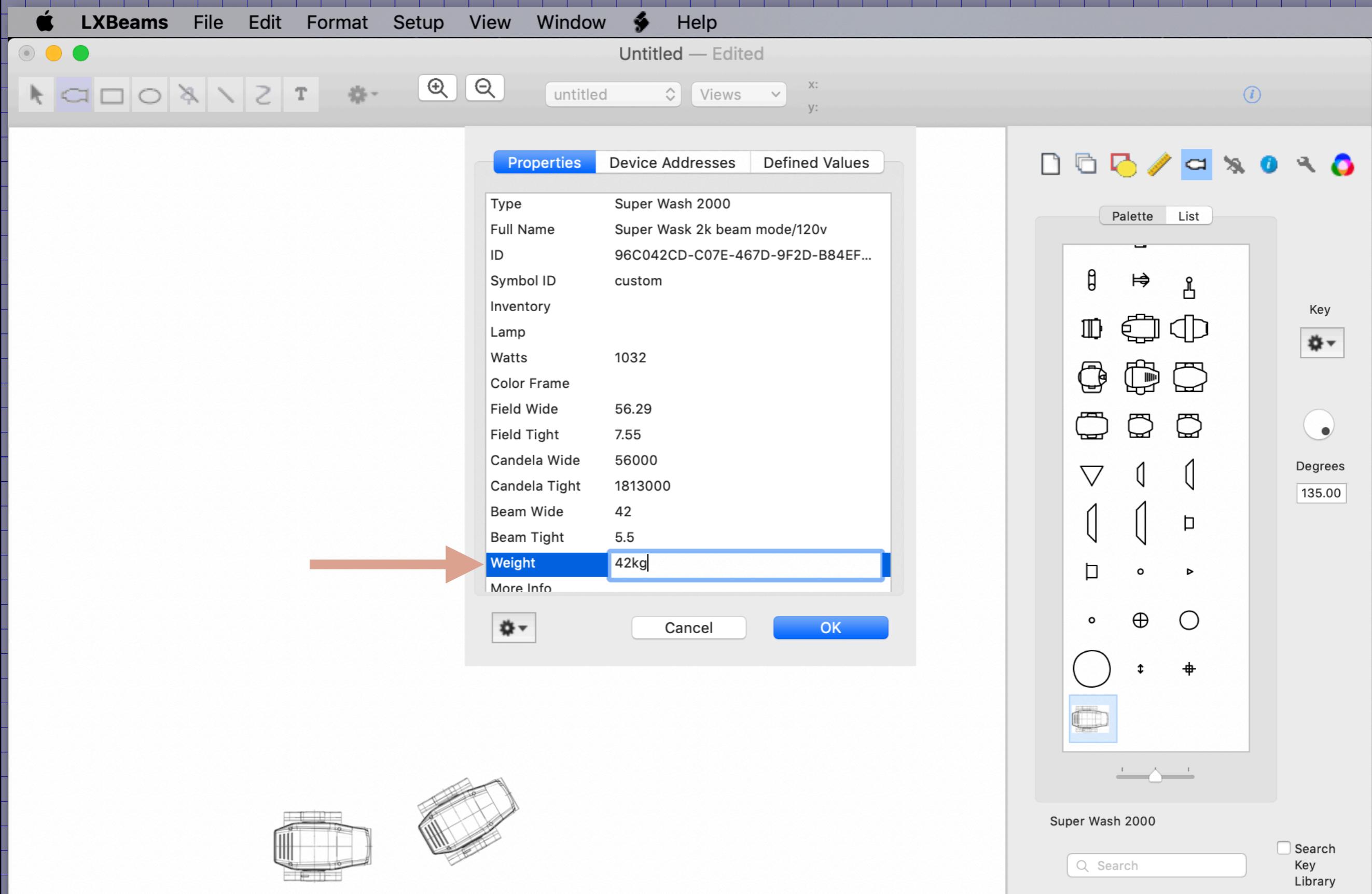


Enter 560lux@10m for the Candela Wide property



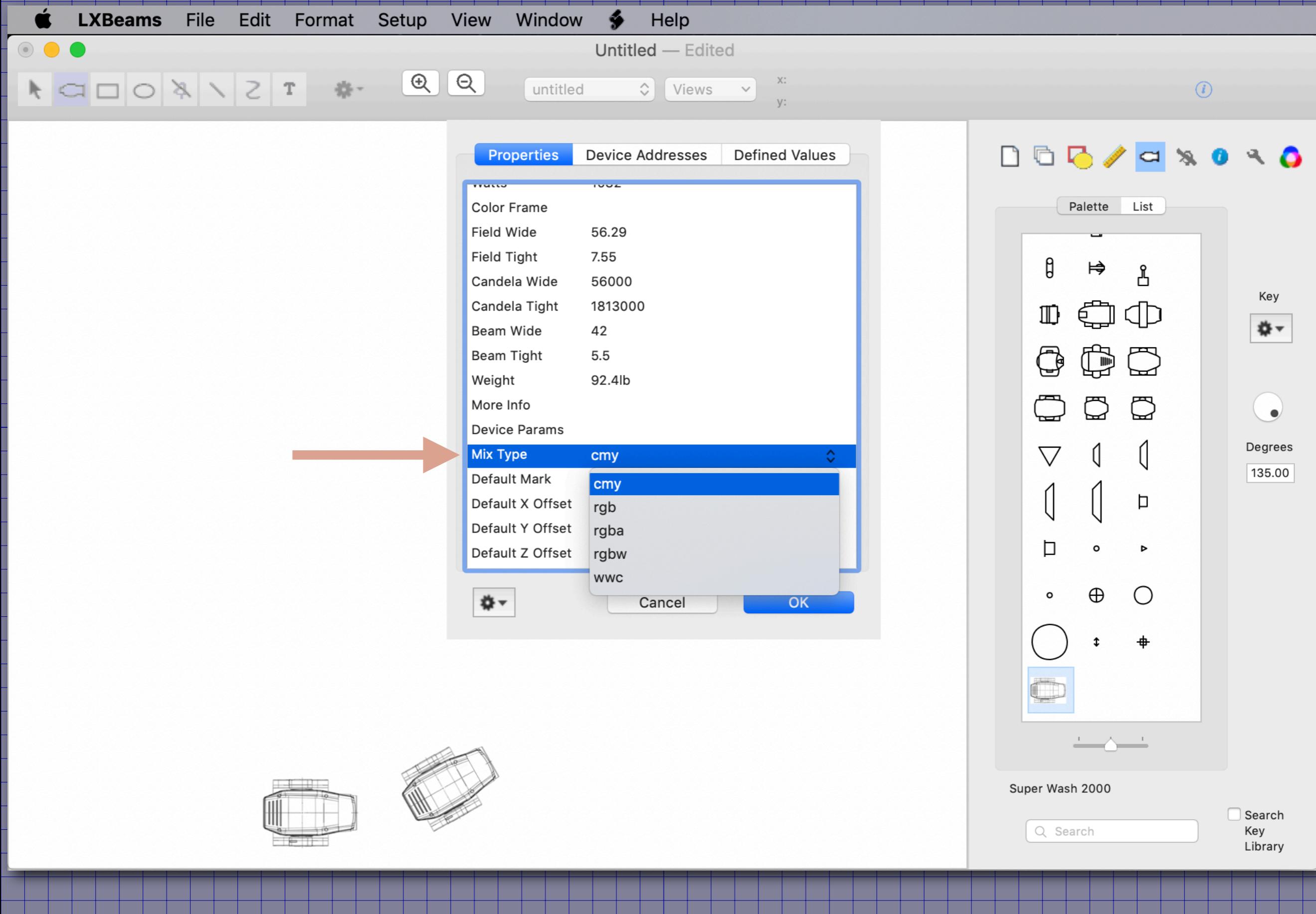
(The math for lux @ 10m is pretty easy)

Enter 42kg for the Weight property

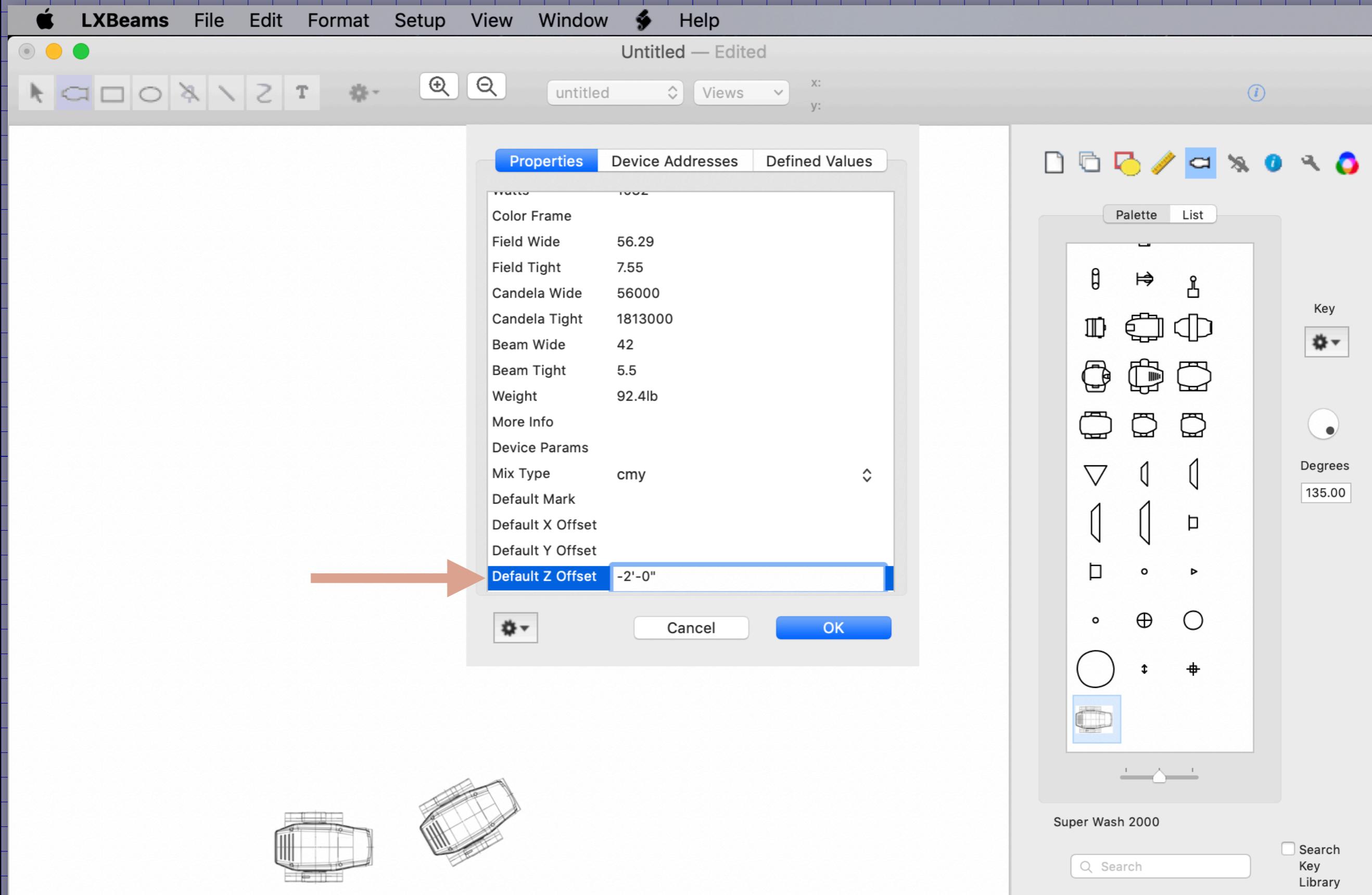


(The weight will be shown in the system for the computer)

Use the popup for the Mix Type to set the property to cmy



The distance from the center below a pipe is not shown.



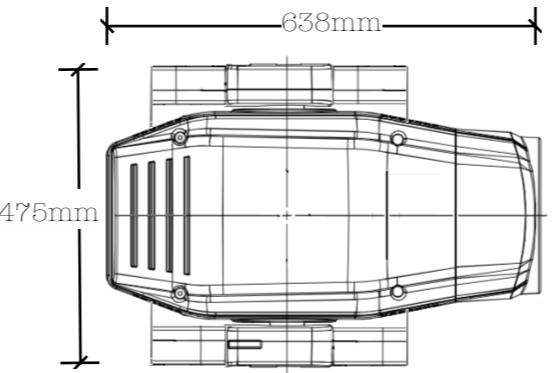
It depends on the clamp. But 2'-0" is a good estimate.

The DMX channels can be read from the table in the specs.

Super Wash 2000

Super Wash 2000 Specifications	
LED Bright White Source	600w
DMX Channels	36
Pan	540°
Tilt	252°
Voltage	120v 240v
Power	8.6a 3.5a
Weight	42kg (92lbs)
Length	638mm
Width	475mm
Zoom Wash Mode	9°-51°
Zoom Beam Mode	5.5°-42°

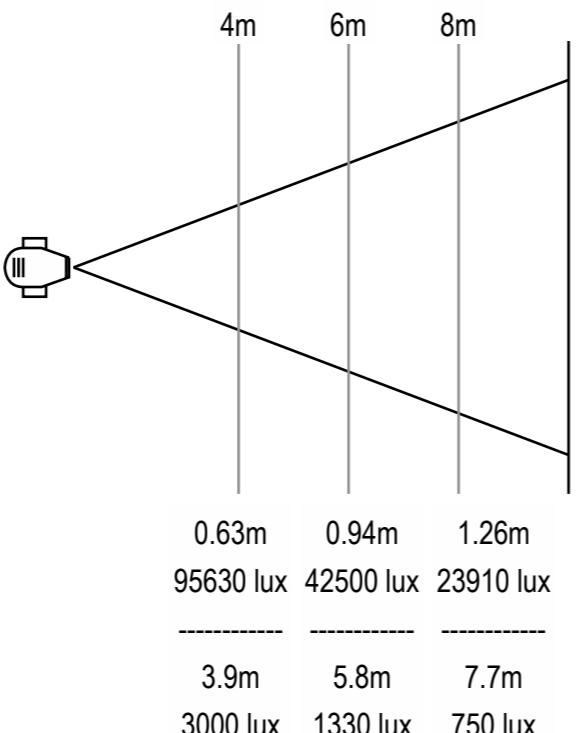
Super Wash 2000



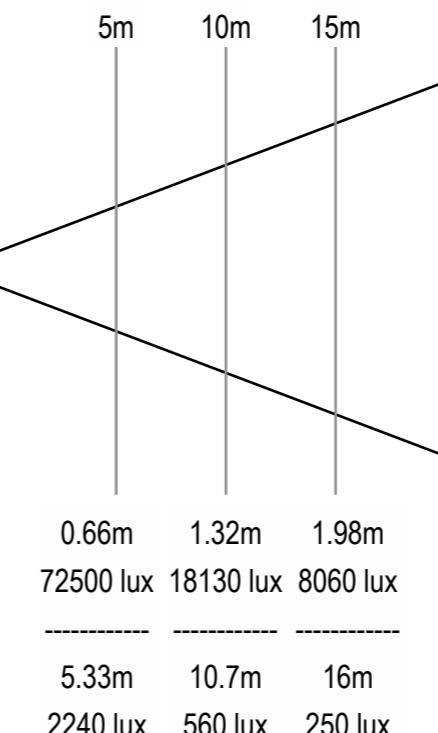
Super Wash 2000

Function	Channel
Pan Coarse	1
Pan Fine	2
Tilt Coarse	3
Tilt Fine	4
Cyan	5
Magenta	6
Yellow	7
Focus	8
Zoom	9
Iris	10
Gobo	11

Super Wash 2000 Wash Mode

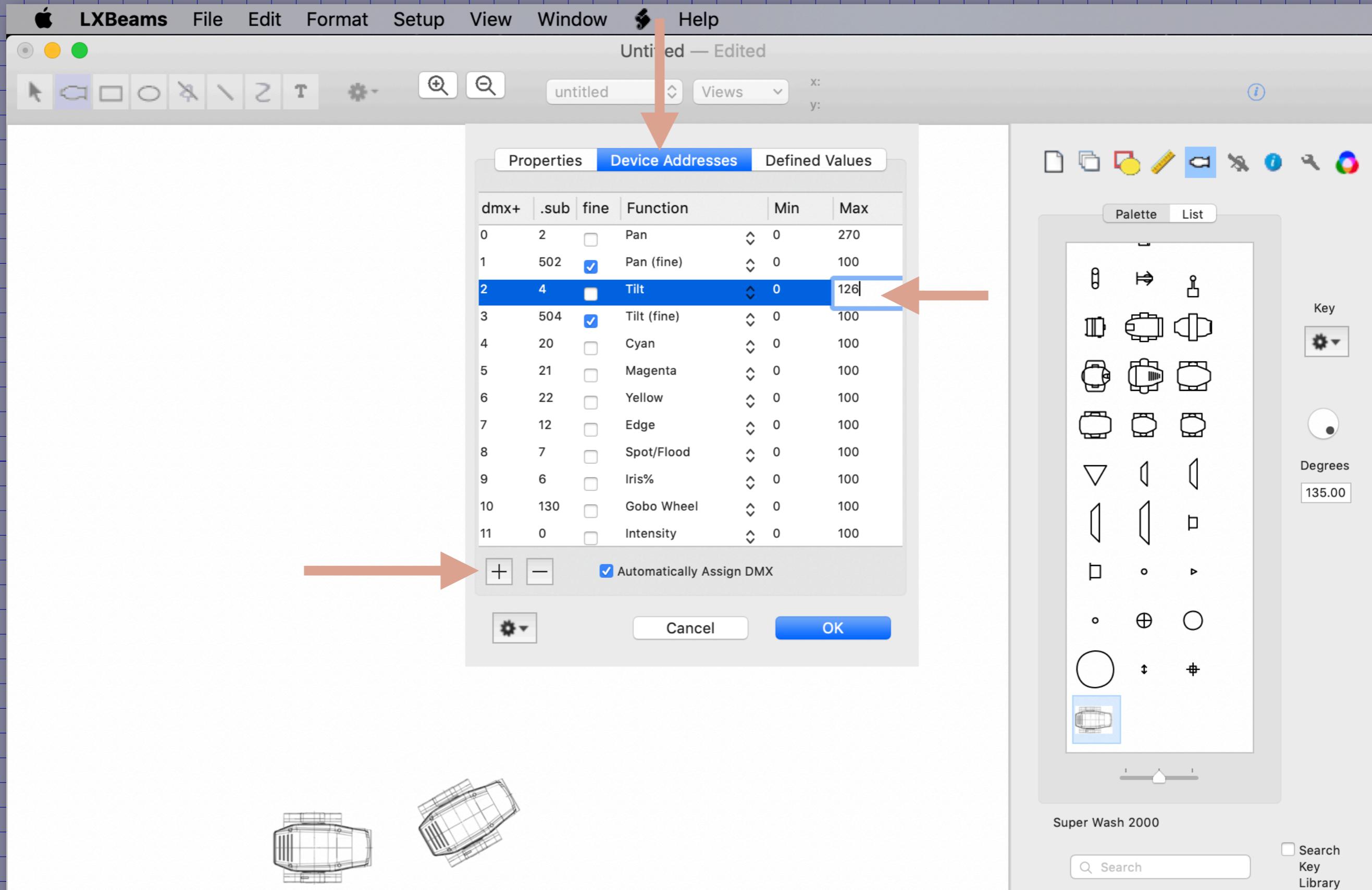


Super Wash 2000 Beam Mode



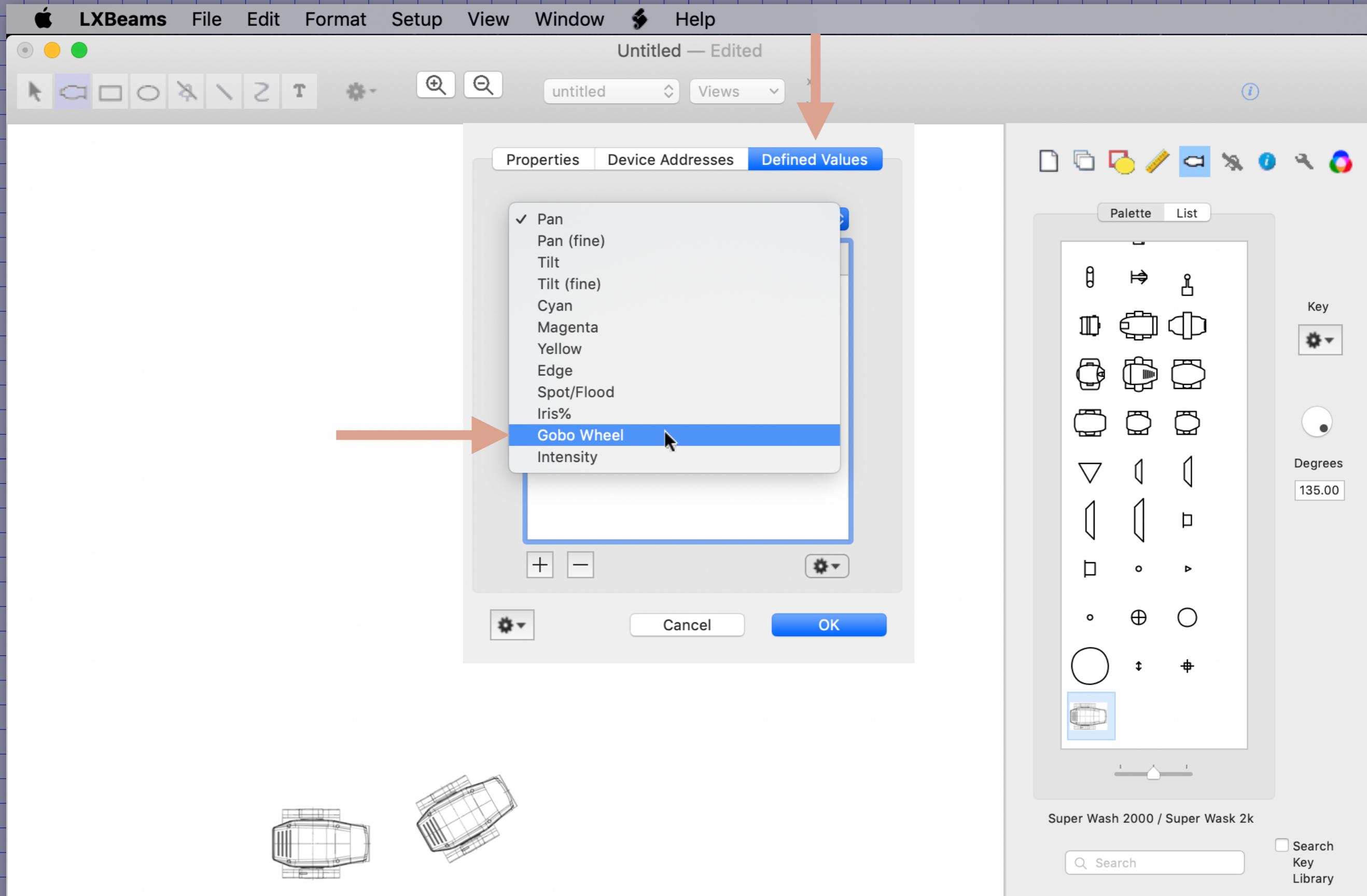
Note the values for the Pan and Tilt range.

Use the plus button to add addresses. Use the popup to select their function.



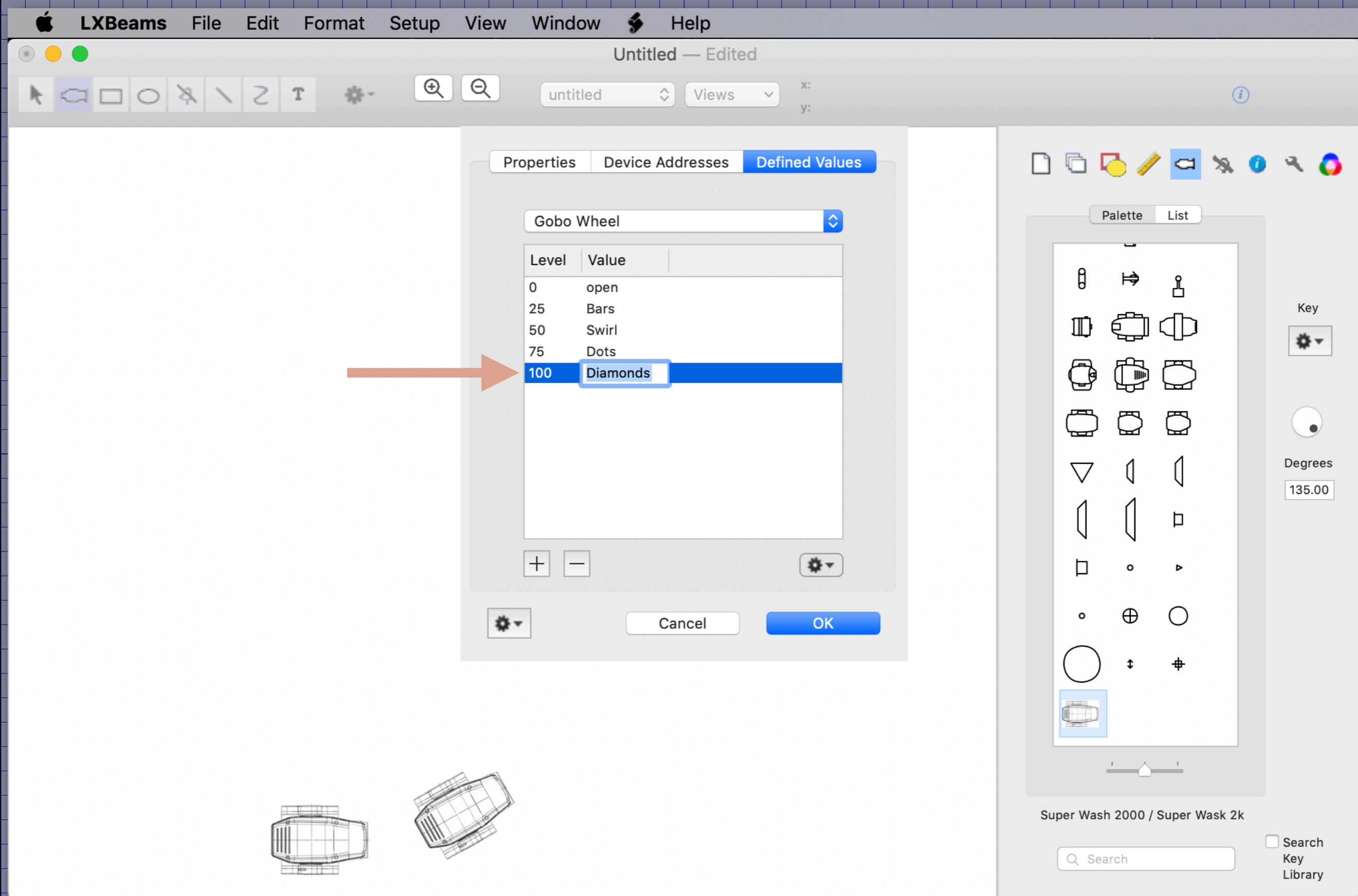
The max/min values for pan and tilt are half the range, +/- 270 pan and +/- 126 tilt.

Switch to the Defined Values Tab.



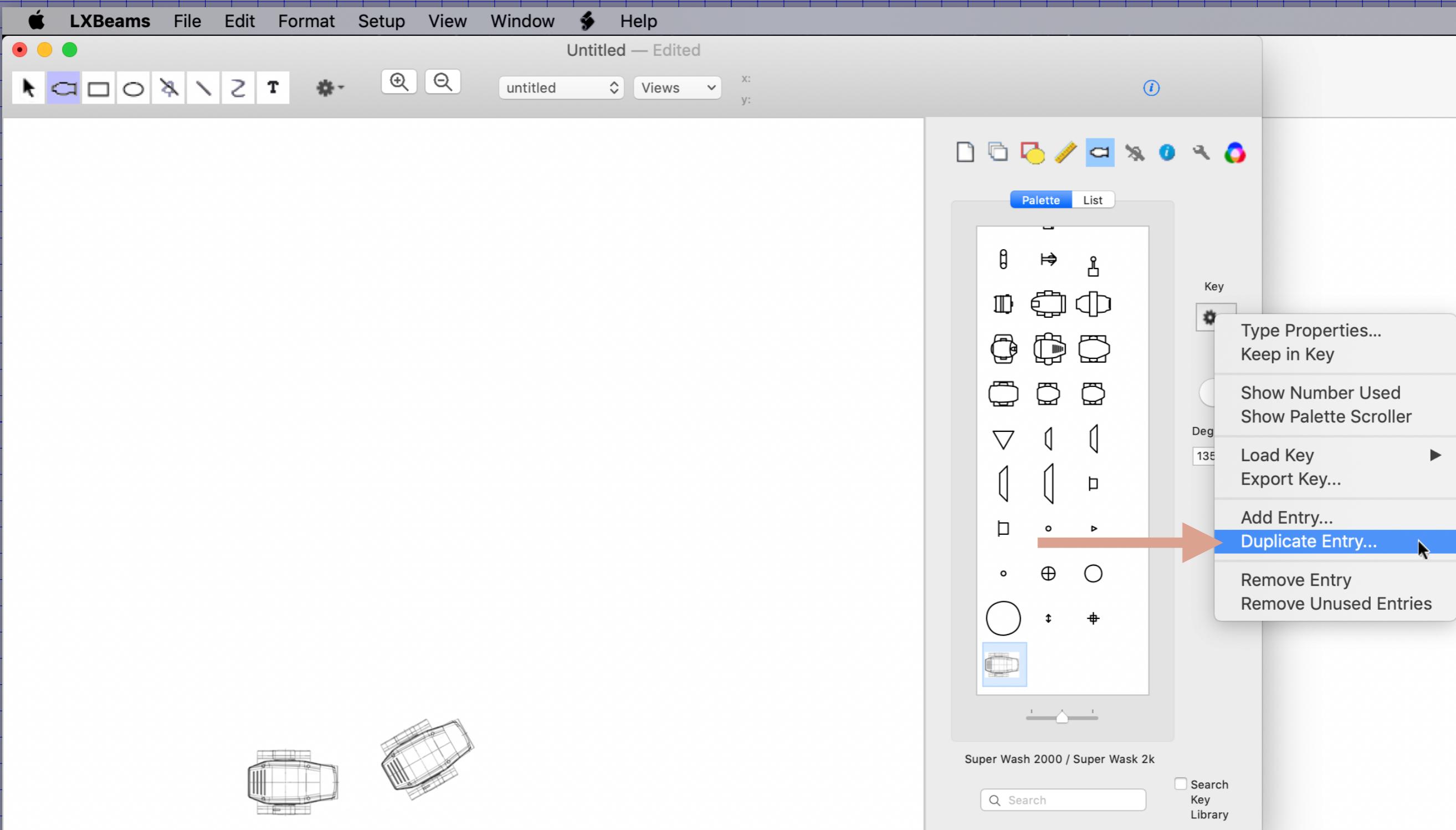
Use the popup to select the Gobo Wheel parameter.

The products documentation usually lists the DMX levels for the slots in the wheel.



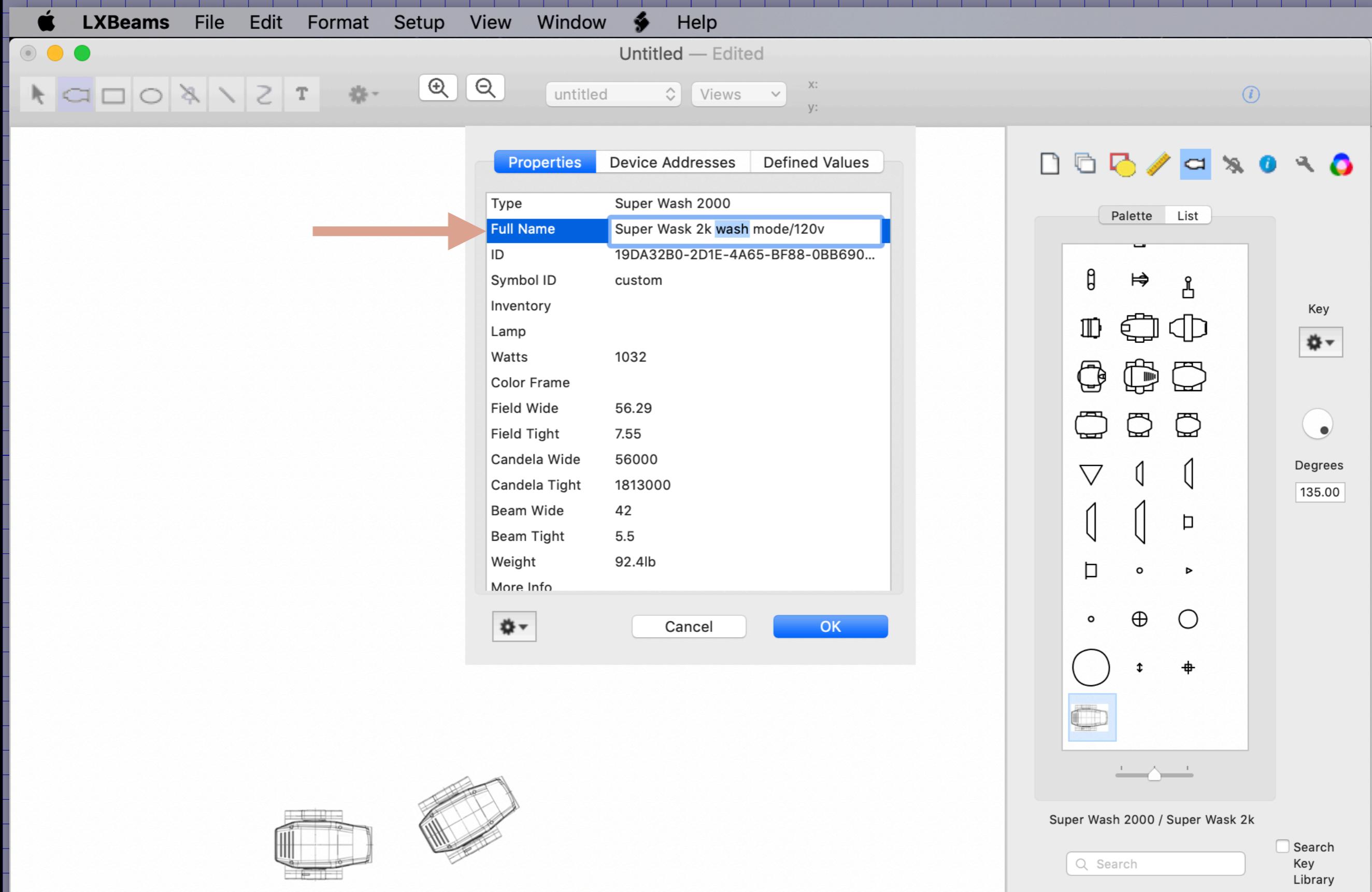
This example shows possible values for a gobo wheel with 5 positions.

The “Super Wash” also has a Wash Mode,
which needs a separate key entry and possibly a variation on the symbol.

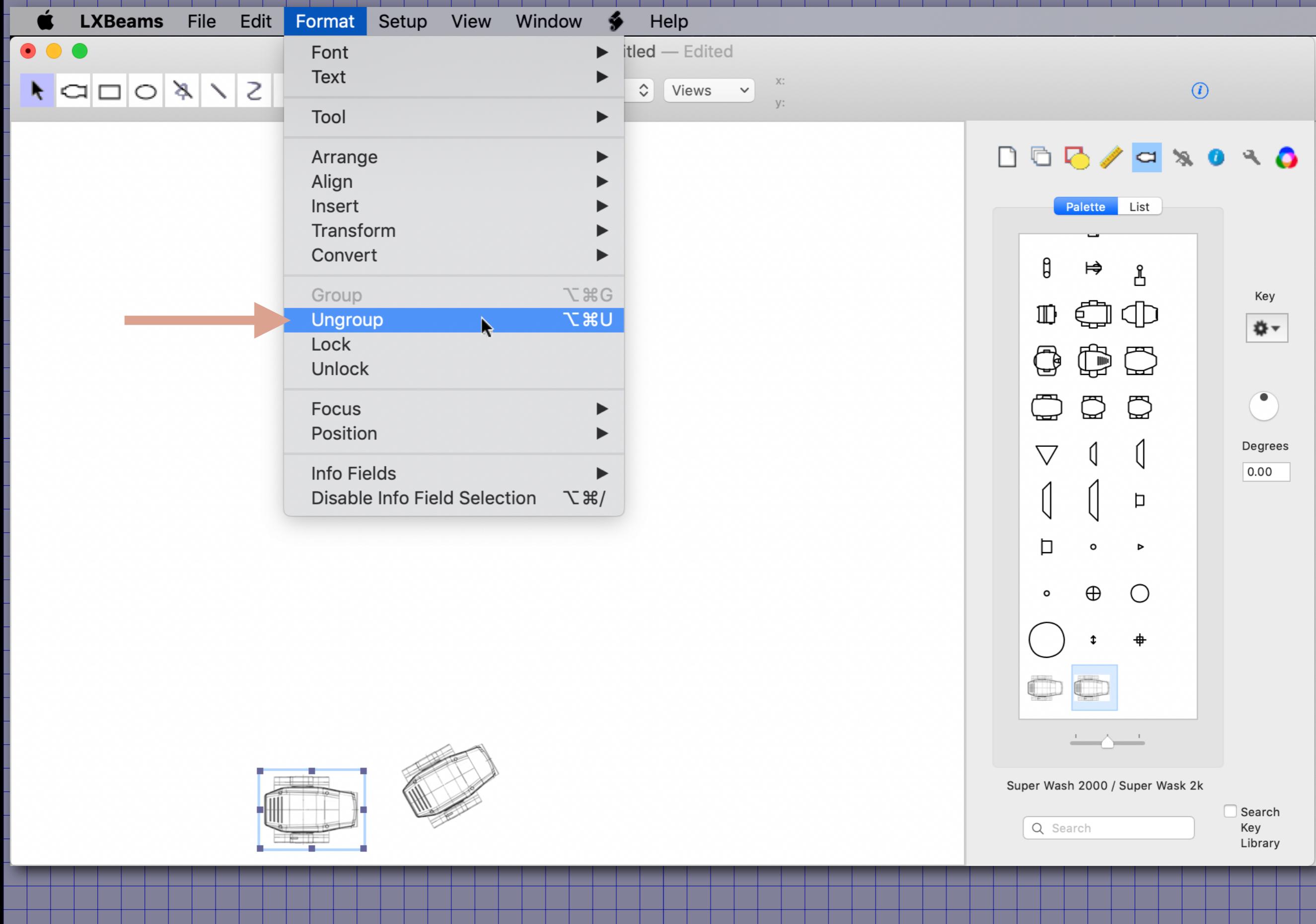


Choose Duplicate Entry from the popup in the symbols tab.

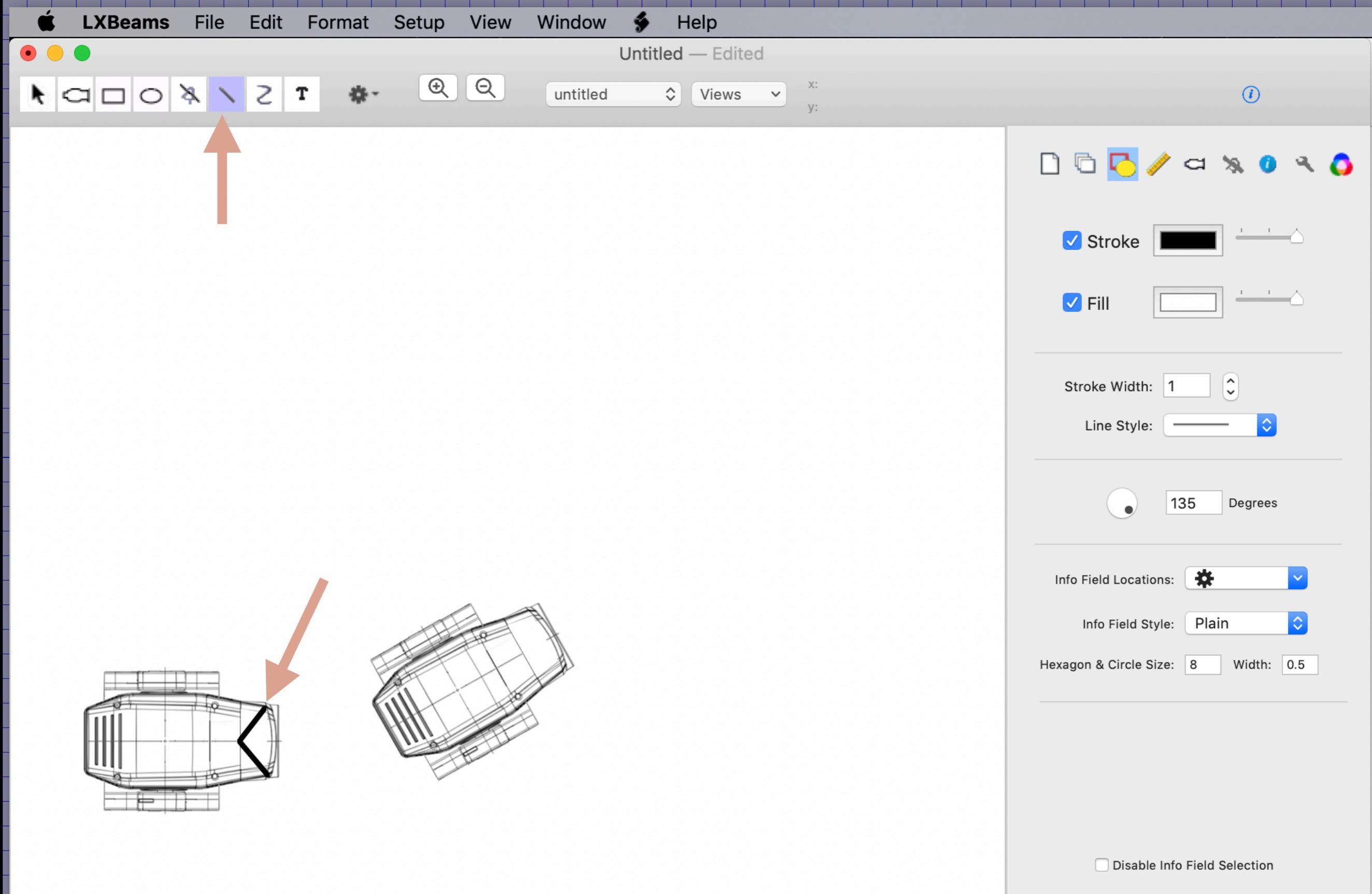
Change the Full Name to note the difference



Select the original group and ungroup it.

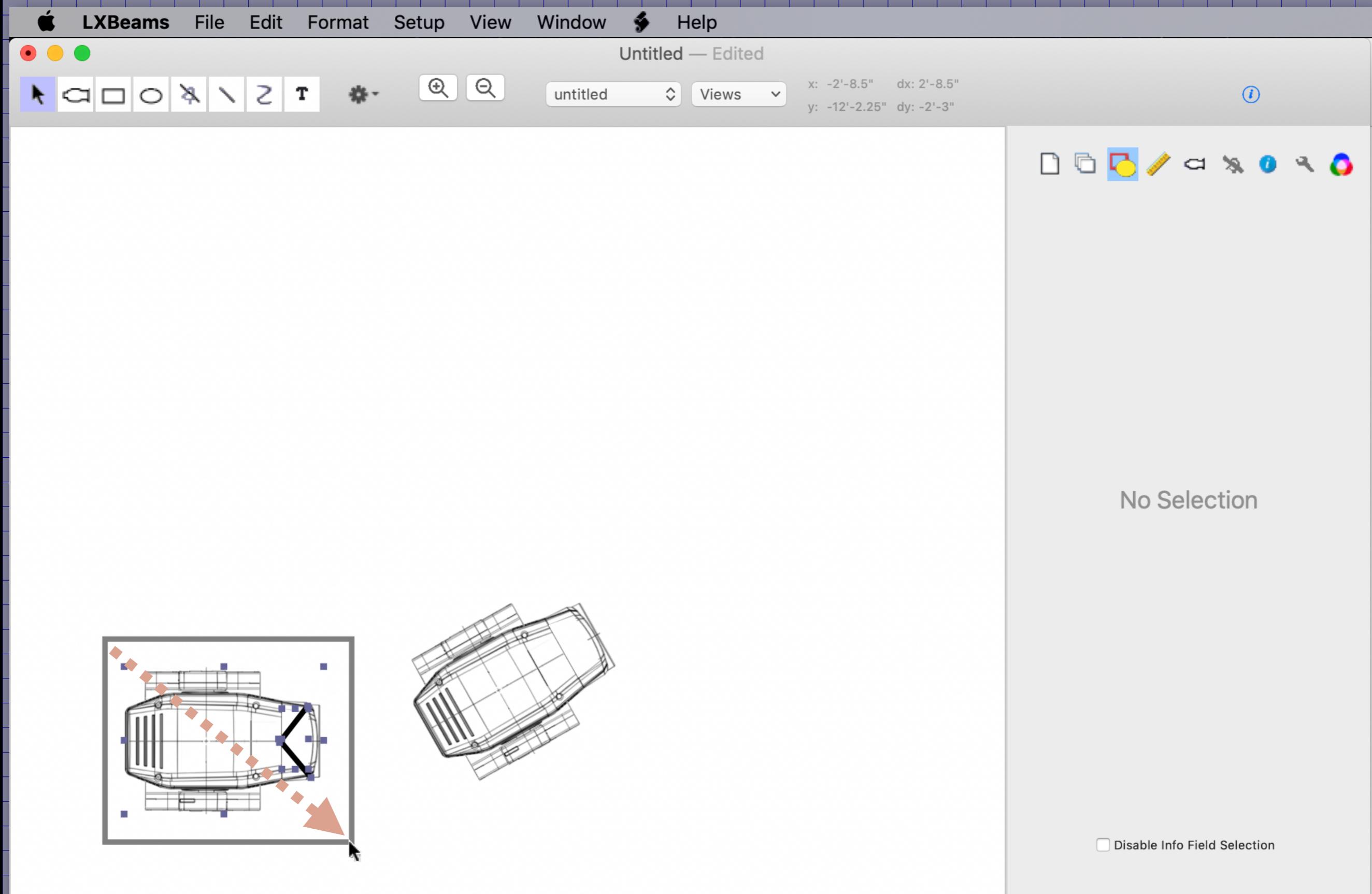


Zoom in and use the line tool to add a couple of lines near the front.

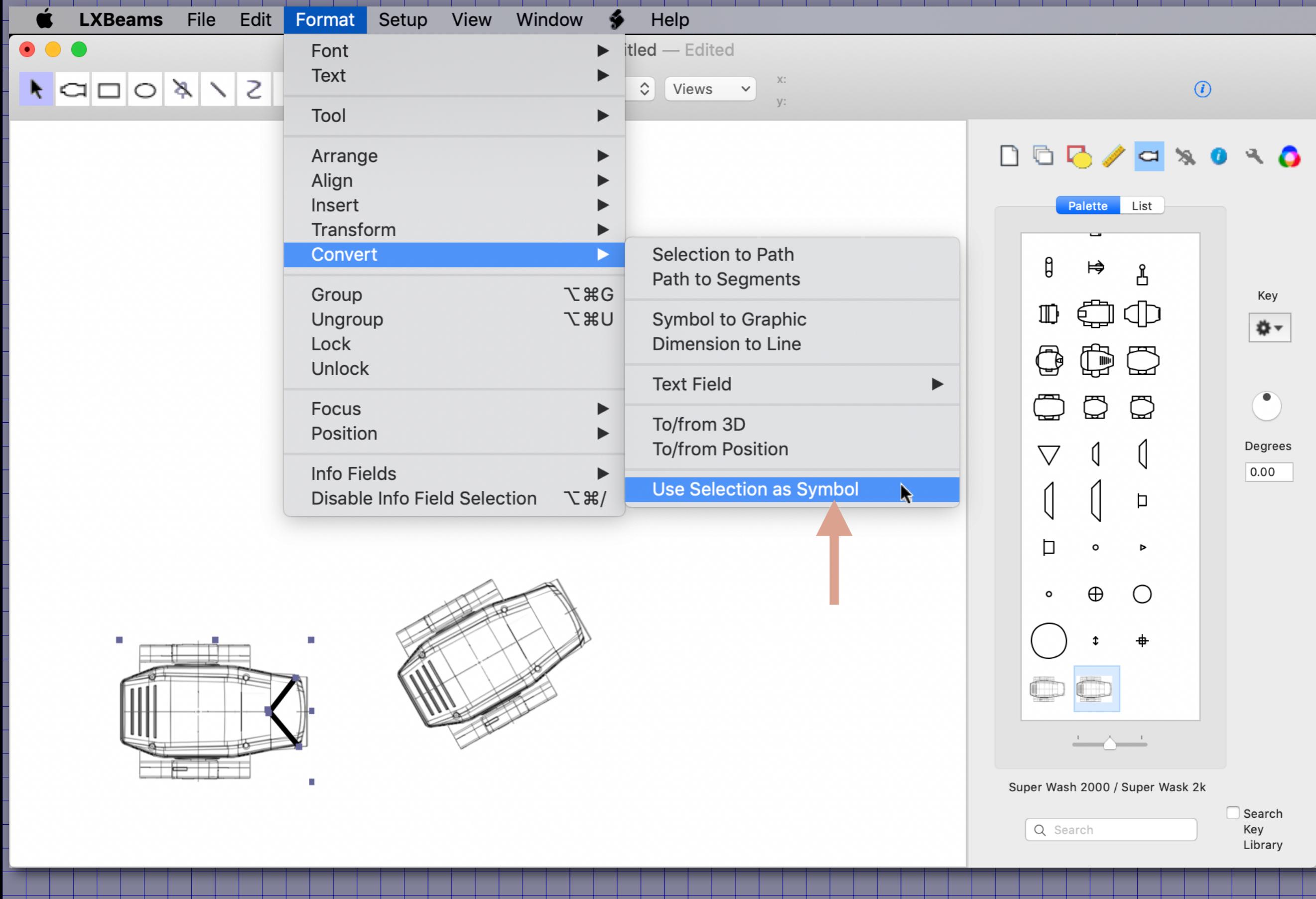


It is common to use markings like this to designate differences in related fixtures.

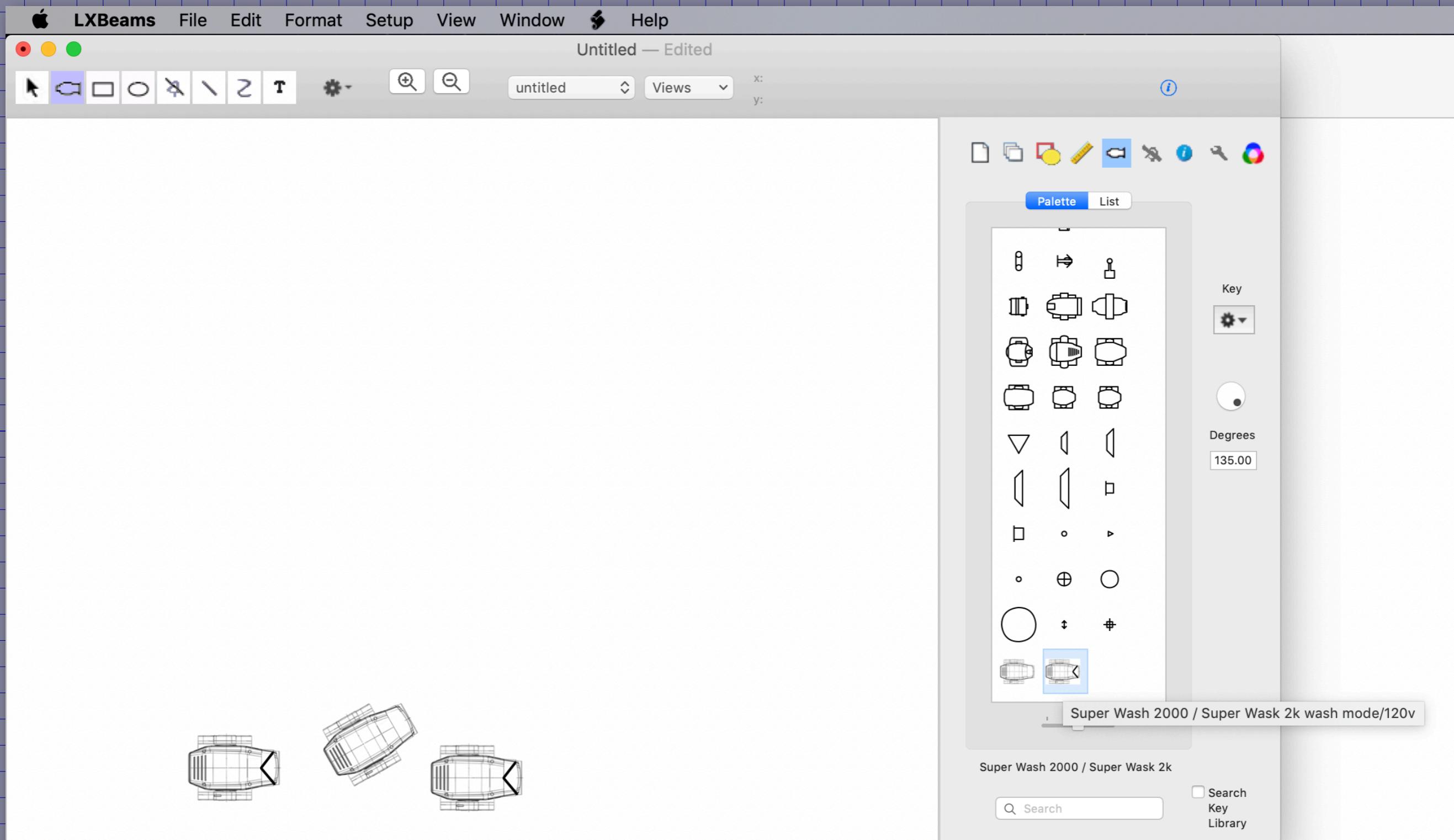
Drag the arrow tool to select all 4 parts of the alternate symbol.



Hold down the option key and choose Format→Convert→Use Selection as Symbol.



Use the symbol tool to draw one of the new wash type symbols.



Use the Light tool to draw one of the wash type symbols.

In this section we've looked at

Creating a custom symbol.

- Ways of making a path (part 1).
- Converting the path into a Key Entry with a custom symbol.
- Using the symbol editor to precisely edit the symbol's path.

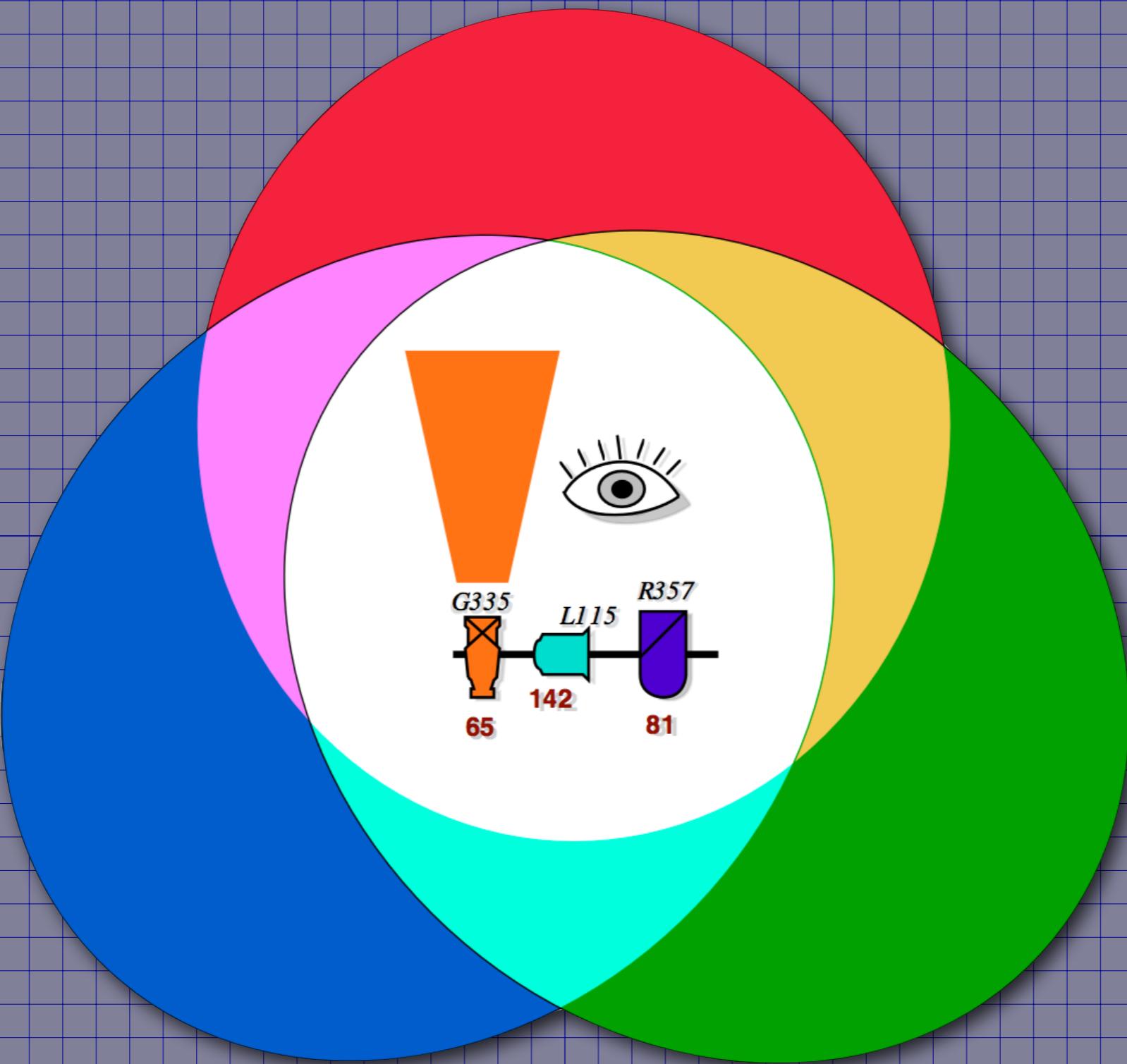
In this section we've looked at Filling out the properties of a Key Entry.

- Entering basic information from a datasheet.
- Using the built-in conversions to calculate watts, field angle and candela.
- Filling in the DMX table including defined values.

Try It Yourself

- Edit the properties of the wash mode entry.
- Use the pdf data sheet.
- The differences are:
 - Beam and field angles (tight & wide)
 - Candela (tight & wide)

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