



## WALL MOUNTED LUMINAIRE INSTALLATION INSTRUCTIONS

### 2W, 3W DIRECT AND 2WID, 3WID INDIRECT/DIRECT SERIES

#### WARNING

#### To Reduce Risk Of Death, Injury, Or Property Damage From Fire, Electric Shock And Other Hazards:

The service of equipment must be performed by qualified personnel.

Installation and maintenance must be performed by qualified personnel familiar with the construction and operation of this product and any hazards involved. All applicable local and national codes and ordinances must be followed.

Read this document before installing, servicing, or maintaining this equipment. These instructions do not cover all installation, service, and maintenance situations. If your situation is not covered, or, if you do not understand these instructions or need additional information, contact American Linear Lighting or your local American Linear Lighting distributor.

#### WARNING

#### Before Installing, Servicing, Or Maintaining This Equipment, Follow These General Precautions To Reduce The Risk Of Electrocutation:

Make sure the equipment is properly grounded.

Always de-energize the circuit and/or equipment before connecting to, disconnecting from or servicing the equipment.

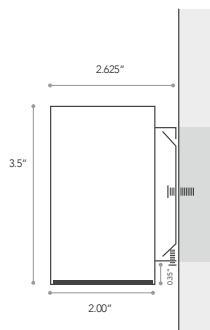
#### To Prevent Luminaire Row From Over-Current:

By adding the input current of each luminaire section marked on the luminaire, the total current per power feed must not exceed the maximum line wire amperage rating in the luminaire and the power feed cord/wire amperage rating whichever is least.

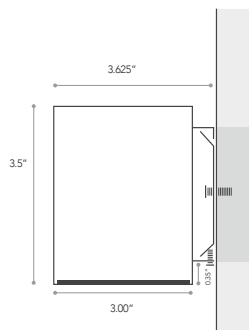
#### CAUTION

#### It Is The Installers Responsibility To Ensure That Wall Is Structurally Capable Of Supporting The Weight Of Luminaire/Luminaire Row.

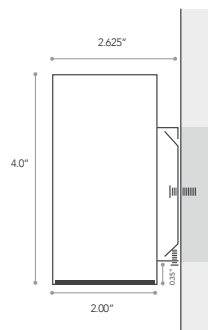
2W DIRECT



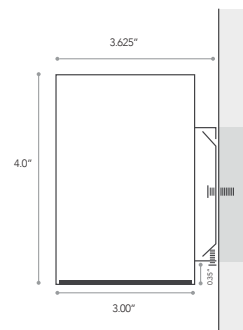
3W DIRECT



2WID INDIRECT/DIRECT



2WID INDIRECT/DIRECT



SAVE THESE INSTALLATION INSTRUCTIONS

## WALL MOUNTED LUMINAIRE INSTALLATION INSTRUCTIONS

### INDIVIDUAL MOUNTING 2W AND 2WID DIRECT

#### INDIVIDUAL LUMINAIRE INSTALLATION

##### Wall Mounting:

Linear luminaires intended for "Wall Mounting" mounting cleats are to be installed with appropriate anchors "by others". Mounting cleats are shipped with the product and should be installed in accordance with these instructions.

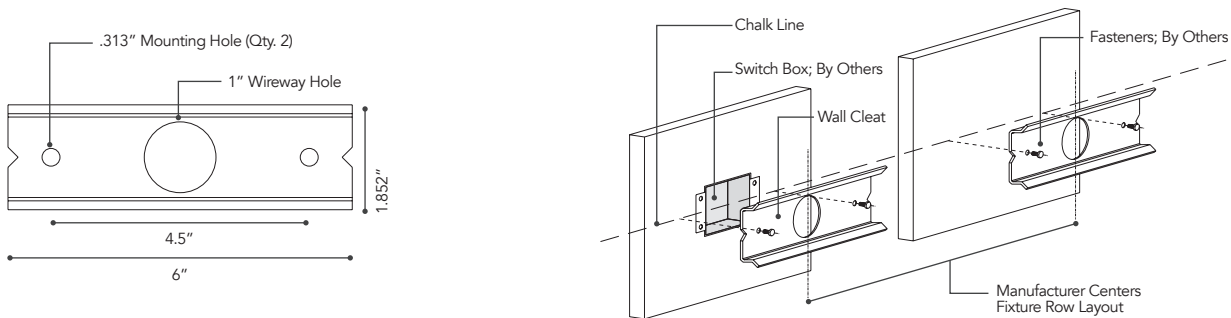
##### Step One:

Remove the lens and LED/Reflector Tray and store safely aside. Using wall cleat supplied with luminaire as a template, center over horizontally mounted switch box, using the level to plumb wall cleat, mark (2) mounting holes. (FIG. 1) Drill appropriate holes for mounting surface and fasteners to be used. Securely attached wall cleat to the wall.

##### Step Two:

Attach additional wall cleat(s) supplied to the mounting surface at the location(s) as specified at the end of this document. Ensure that all wall cleats are plumb and on the same centerline as the first one installed. All wall cleats should be centered over every set screw in luminaire housing. Remove the lens and the reflector to access wiring compartment.

FIGURE 1



##### Step Three:

Lower the top lip of wall bracket rails over the top lip of wall cleat by holding luminaire at a slight angle with the bottom of the unit away from the wall and the top of the unit at the wall. Run supply leads through wire feed hole ensuring that the wire leads are not being pinched, lower unit down into position. Install set screws and tighten only enough to hold luminaire tight to the wall. (FIG.2)

##### Step Four:

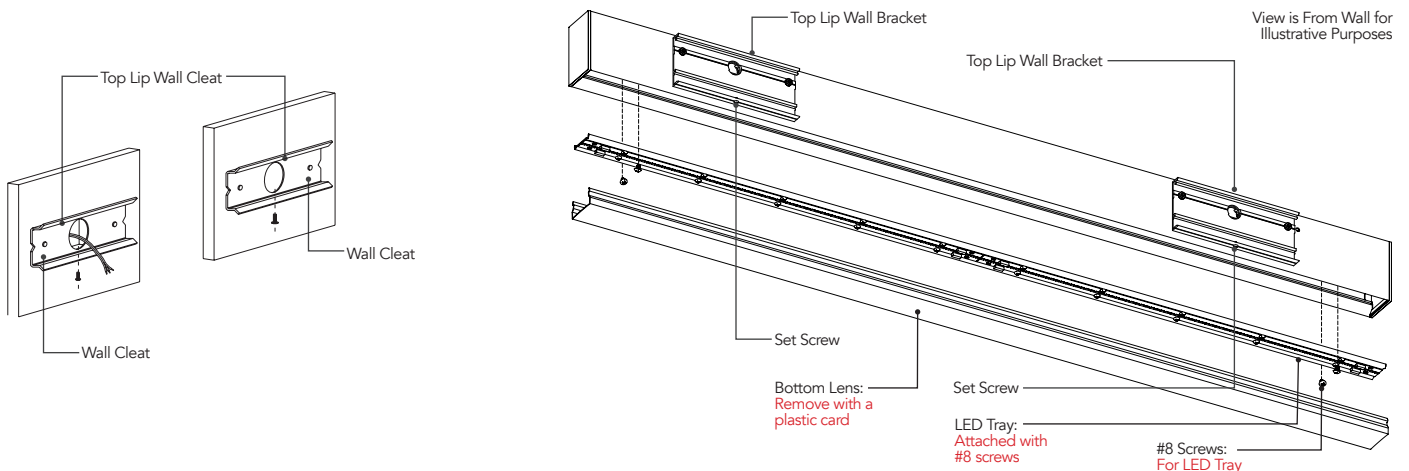
Connect incoming supply wire leads to luminaire wire leads using 90Deg C minimum rated supply wires and connectors.

##### Step Five:

Reassemble LED/Reflector tray in reverse fashion and ensure that there are no wires bound by the reflector as this will cause the lens to not fit correctly. For 2" wide product line only: When reinstalling the LED tray, hold it firm in the housing tracks, screw the first screw with just a few revolutions, move to the middle, and to the last screw before screwing the first screw all the way in. Not following this step will cause the LED Tray to slide out of position and interfere with the end cap or the next fixture in a row.

Power up the row and reinstall the lens.

FIGURE 2



## WALL MOUNTED LUMINAIRE INSTALLATION INSTRUCTIONS

### ROW MOUNTING 2W AND 2WID DIRECT

### CONTINUOUS LUMINAIRE INSTALLATION

#### CAUTION

**Attempt To Assemble Fixture Rows On Ground And Lifting Row Into Position May Create Stress At Connection Points And May Result In Damage And/Or Mechanical Failure.**

#### Step One:

From centerline of horizontally mounted switch box(es), snap a horizontal chalk line on the wall to the right of J-box approximately the full length of luminaire row mounting centers.

#### Step Two:

Attach wall cleats as instructed on the previous page and on centers as specified at the end of this document using chalkline. (FIG. 3)

#### Step Three:

Remove the Bottom lens and LED/Reflector tray(s) from fixtures and store in order of run placement storing safely aside (FIG. 4). It is best to perform the following tasks on a protective, elevated, stable surface to ease assembly and protect the fixtures. (Please also note this is to be done before attempting to suspend the fixture run)

#### Step Four:

Locate and install End Cap Kits (FIG. 3A) and Joiner Kits (FIG. 3B). See the packing list for quantities per run. It is best to install the End Caps on the Starter and the Ender fixtures while they are laying on the elevated and stable surface.

Insert the End Cap into the housing, aligning it with the features in the extrusion (FIG. 3A). Press the End Cap firm to eliminate the gap between the housing and the End Cap. Screw the #10 screws to secure the end cap. For the best results, keep the screwdriver perpendicular to the housing, and force the screw towards the end of the mounting tab (towards the middle of the fixture) before you start driving it down.

Insert 4 alignment pins and 2 alignment tabs into the housing so that they are extending out towards the fixture to be joined by  $\frac{1}{2}$ " (FIG. 3B). Attached the Joiner Bracket with two #10 screws positioning it so that the Center Tension Screw is located  $\frac{1}{16}$ " from the edge of the housing (towards the middle of the fixture). Joining fixtures should mate easily leaving no gaps between housings.

Repeat this process for the balance of the fixtures in the run as needed. Complete each fixture in the run to assure the run can be assembled from right to left as intended.

FIGURE 3

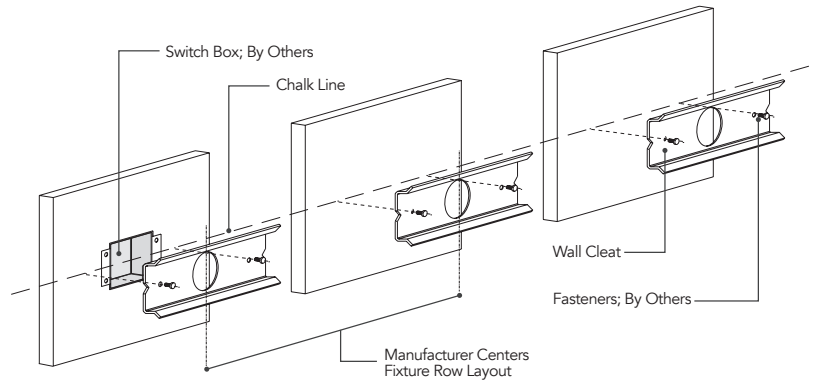


FIGURE 3A

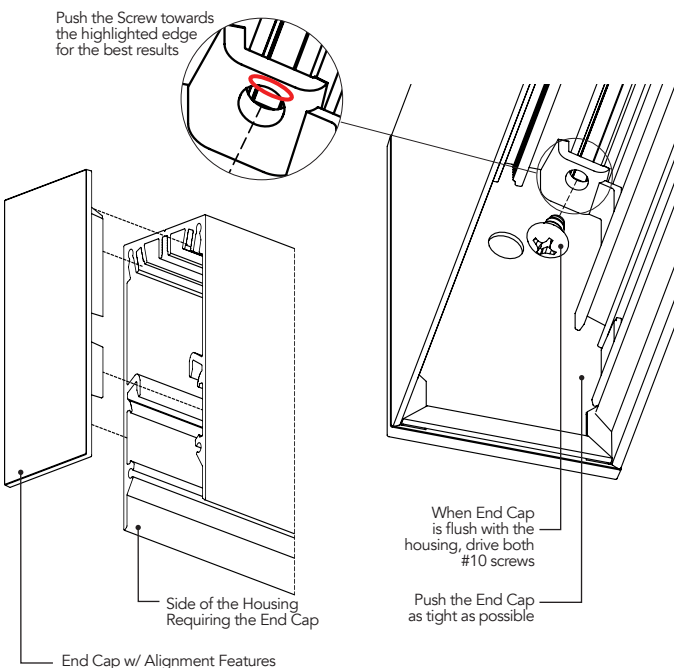
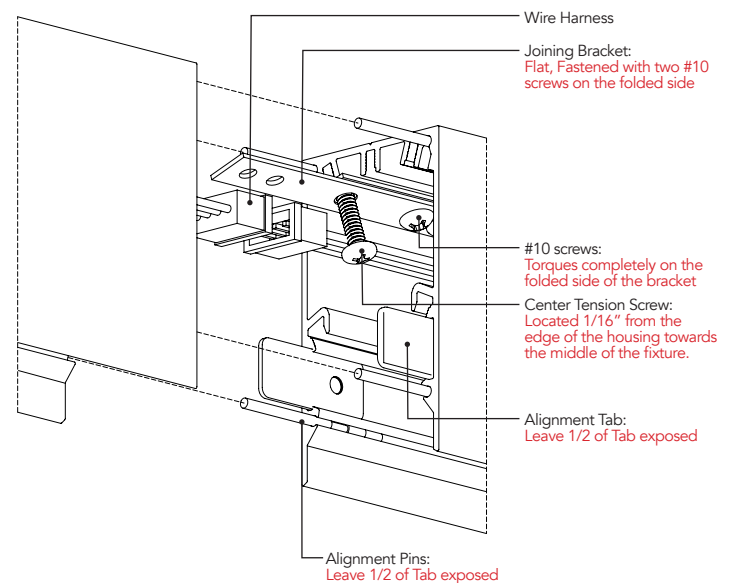


FIGURE 3B



## WALL MOUNTED LUMINAIRE INSTALLATION INSTRUCTIONS

### ROW MOUNTING 2W AND 2WID DIRECT

#### Step Five:

Lower the top lip of wall bracket rails over the top lip of wall cleat by holding luminaire at a slight angle with the bottom of the unit away from the wall and the top of the unit at the wall. Run supply leads through wire feed hole ensuring that the wire leads are not being pinched, lower unit down into position. Install set screws and tighten only enough to hold luminaire tight to the wall. (FIG.4) Position second fixture in a row (JOINER/INTERMEDIATE) such that it aligns with the joint end of the first fixture as illustrated.

#### Step Six:

Plug luminaire wire harness together and push the excess wire back into wireway. Push luminaires tightly together while making sure the alignment pins slide into the interior tracks of each luminaire tray and span the luminaire joint. When both fixtures are Leveled, screw in two #10 screws through the joining bracket plate (FIG. 4A). When both sides of the joining bracket are attached to both housings in the run with four #10 screws, tighten the Center Tention Screw on the joining bracket enough to hold luminaires snug to the mounting surface (FIG. 4B). Joining brackets are designed for a single-use. Contact the factory for the additional joining kits.

#### Step Seven:

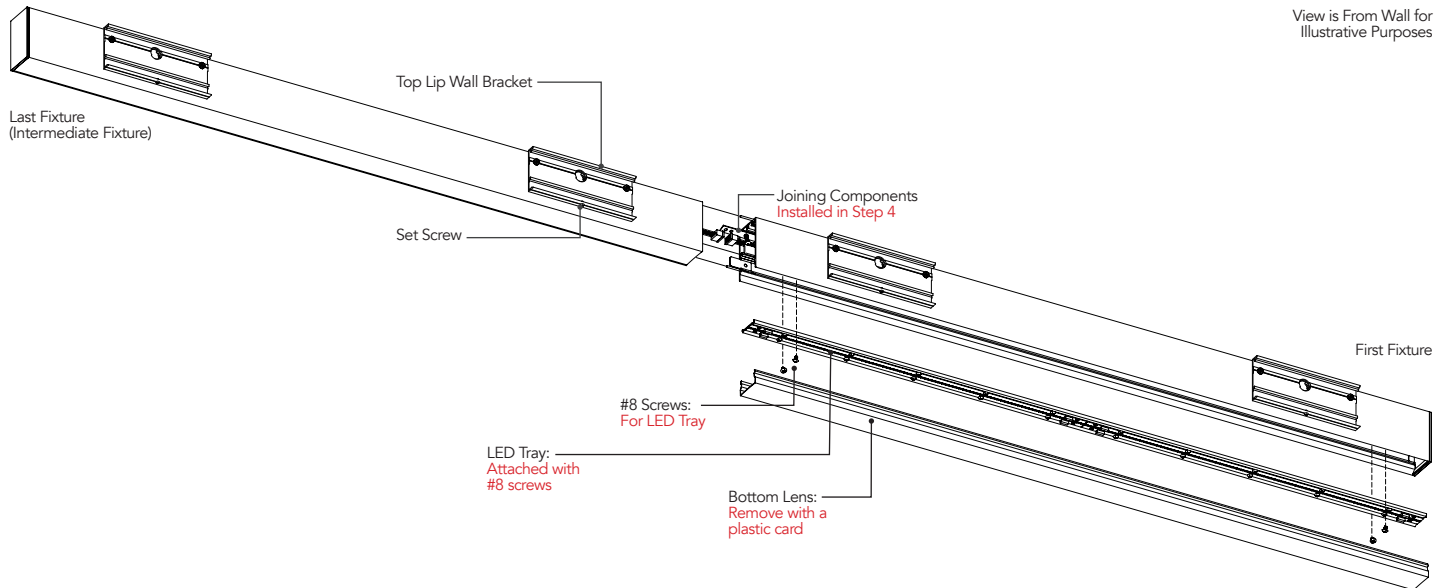
Continue to install and assemble row following steps 3-6.

#### Step Eight:

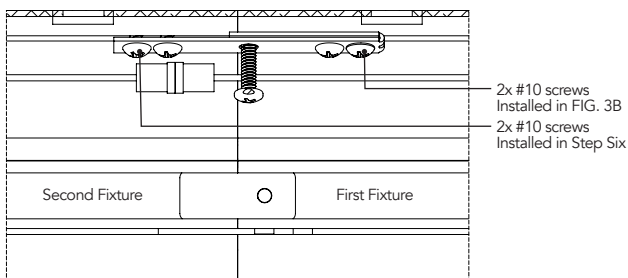
Reassemble LED/Reflector tray in reverse fashion and ensure that there are no wires bound by the reflector as this will cause the lens to not fit correctly. For 2" wide product line only: When reinstalling the LED tray, hold it firm in the housing tracks, screw the first screw with just a few revolutions, move to the middle, and to the last screw before screwing the first screw all the way in. Not following this step will cause the LED Tray to slide out of position and interfere with the end cap or the next fixture in a row. Power up the row and apply the Light Shield Tape below the joining tab (FIG. 4B). Do not let the bottom of the tape to show below the edge of the housing.

Reinstall lens(es) when all tape pieces are applied.

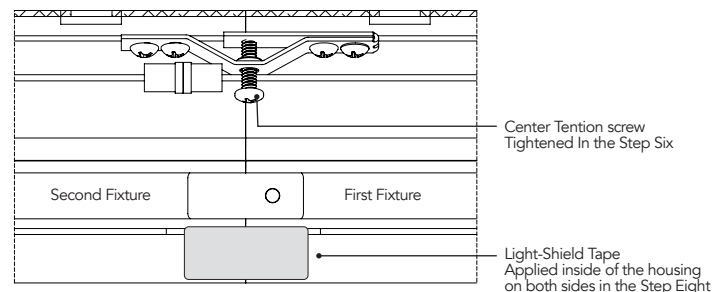
**FIGURE 4**



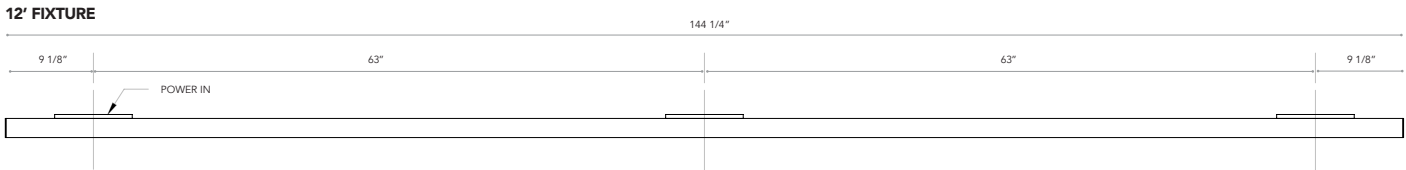
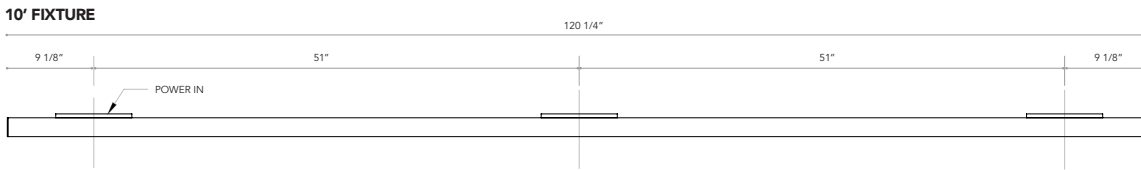
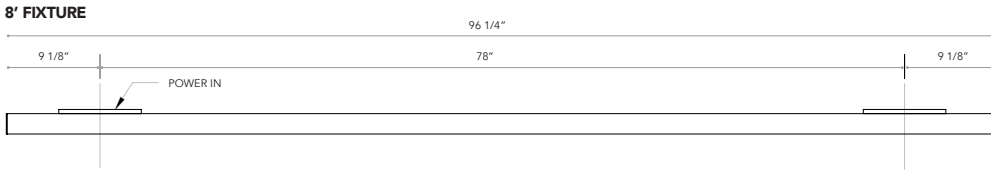
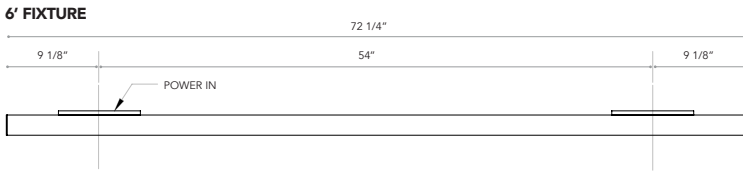
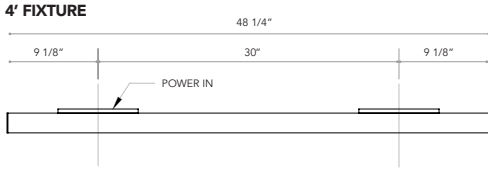
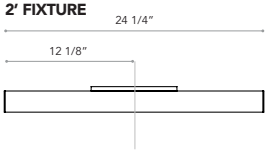
**FIGURE 4A** Shown in a cross-section for clarity



**FIGURE 4B** Shown in a cross-section for clarity

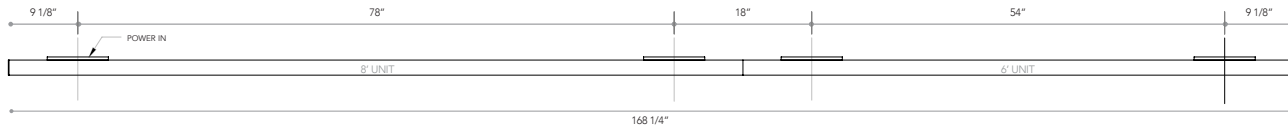


**FIXTURE ROW LAYOUT: SINGLE UNIT** 2' - 4' - 6' - 8' - 10' - 12'

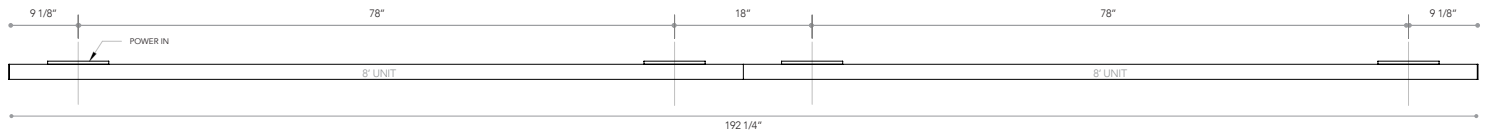


**FIXTURE ROW LAYOUT: TWO UNITS 14' - 16'**

**14' FIXTURE**

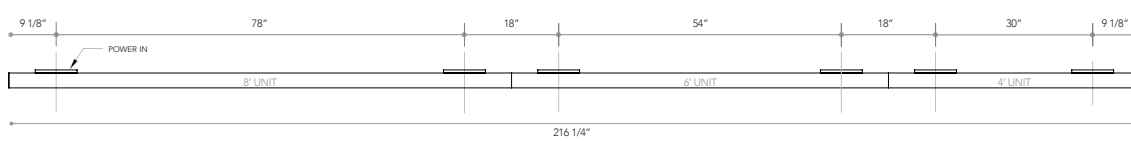


**16' FIXTURE**

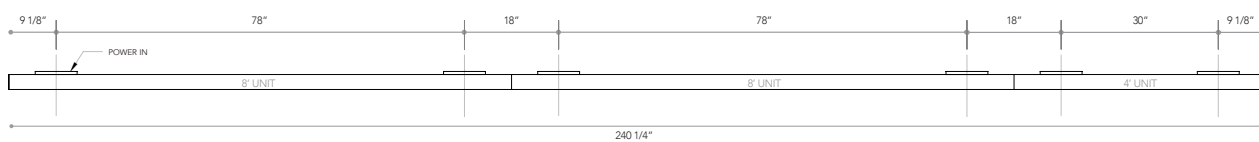


**FIXTURE ROW LAYOUT: THREE UNITS 18' - 20' - 22' - 24'**

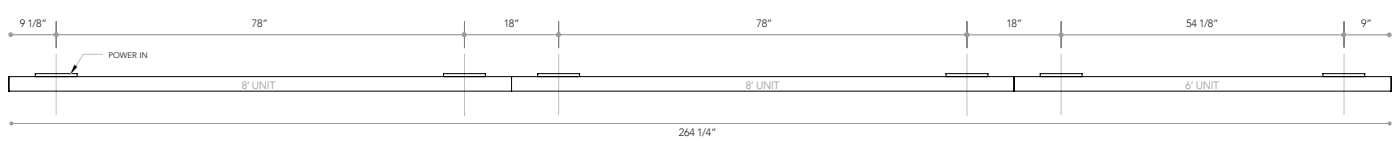
**18' FIXTURE**



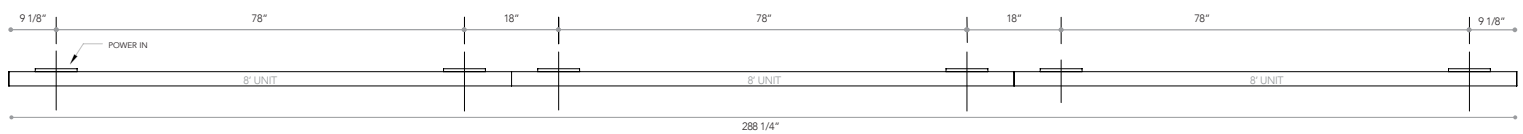
**20' FIXTURE**



**22' FIXTURE**



**24' FIXTURE**



## FIXTURE ROW COMPONENTS

ROW LENGTH	2' - UNIT	4' - UNIT	6' - UNIT	8' - UNIT	10' - UNIT	12' - UNIT	JOINER KITS	END CAPS	END-CAP TO END-CAP
2'	1	-	-	-	-	-	-	-	24-1/4"
4'	-	1	-	-	-	-	-	-	48-1/4"
6'	-	-	1	-	-	-	-	-	72-1/4"
8'	-	-	-	1	-	-	-	-	96-1/4"
10'	-	-	-	-	1	-	-	-	120-1/4"
12'	-	-	-	-	-	1	-	-	144-1/4"
14'	-	-	1	1	-	-	1	2	168-1/4"
16'	-	-	-	2	-	-	1	2	192-1/4"
18'	-	1	1	1	-	-	2	2	216-1/4"
20'	-	1	-	2	-	-	2	2	240-1/4"
22'	-	-	1	2	-	-	2	2	264-1/4"
24'	-	-	-	3	-	-	2	2	288-1/4"
26'	-	1	1	2	-	-	3	2	312-1/4"
28'	-	1	-	3	-	-	3	2	336-1/4"
30'	-	-	1	3	-	-	3	2	360-1/4"
32'	-	-	-	4	-	-	3	2	384-1/4"
34'	-	1	1	3	-	-	4	2	408-1/4"
36'	-	1	-	4	-	-	4	2	432-1/4"
38'	-	-	1	4	-	-	4	2	456-1/4"
40'	-	-	-	5	-	-	4	2	480-1/4"
42'	-	1	1	4	-	-	5	2	504-1/4"
44'	-	1	-	5	-	-	5	2	528-1/4"
46'	-	-	1	5	-	-	5	2	552-1/4"
48'	-	-	-	6	-	-	5	2	576-1/4"
50'	-	1	1	5	-	-	6	2	600-1/4"
52'	-	1	-	6	-	-	6	2	624-1/4"
54'	-	-	1	6	-	-	6	2	648-1/4"
56'	-	-	-	7	-	-	6	2	672-1/4"
58'	-	1	1	6	-	-	7	2	696-1/4"
60'	-	1	-	7	-	-	7	2	720-1/4"
62'	-	-	1	7	-	-	7	2	744-1/4"
64'	-	-	-	8	-	-	7	2	768-1/4"
66'	-	1	1	7	-	-	8	2	792-1/4"
68'	-	1	-	8	-	-	8	2	816-1/4"
70'	-	-	1	8	-	-	8	2	840-1/4"
72'	-	-	-	9	-	-	8	2	864-1/4"