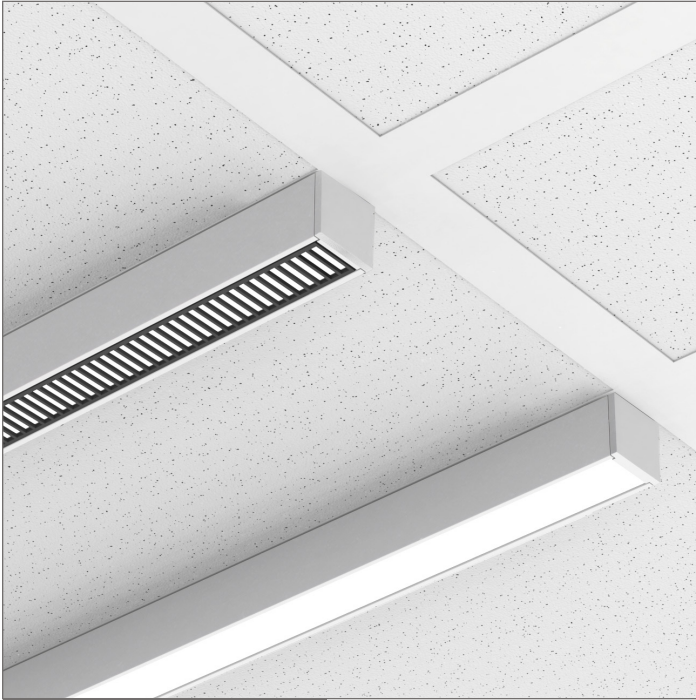


NANOBeam Surface

High-Performance Linear LED



NANOBeam

NANOBeam Surface

Warnings

- Risk of fire and electrical shock
- Turn off power at breaker
- Installation requires knowledge of electrical systems and should be installed by a qualified electrician. If not qualified, **DO NOT ATTEMPT INSTALLATION.**

Care Instructions

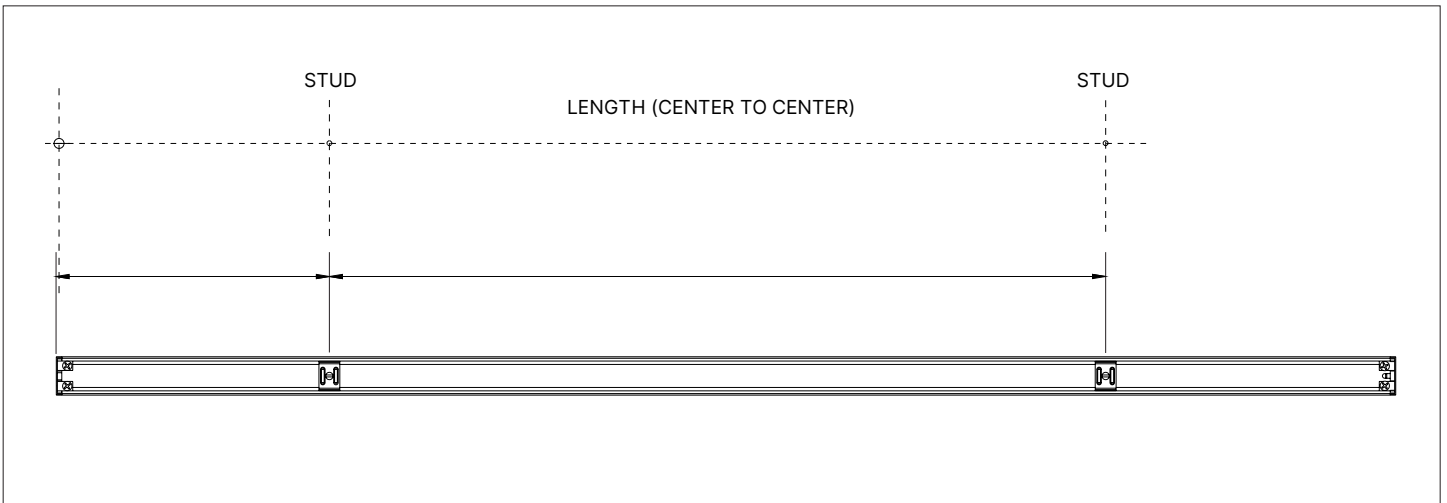
- Wipe with a soft cloth only
- Always avoid using harsh chemicals and/or cleaners

Integral Driver

Proceed to Page 4 for NANOBeam Surface Mount TBar Instructions

STEP 1 — Mounting Clip Placement NANOBeam Surface Mount

Mounting clips are adjustable. Locate a secured stud when possible for each bracket and mark the locations.



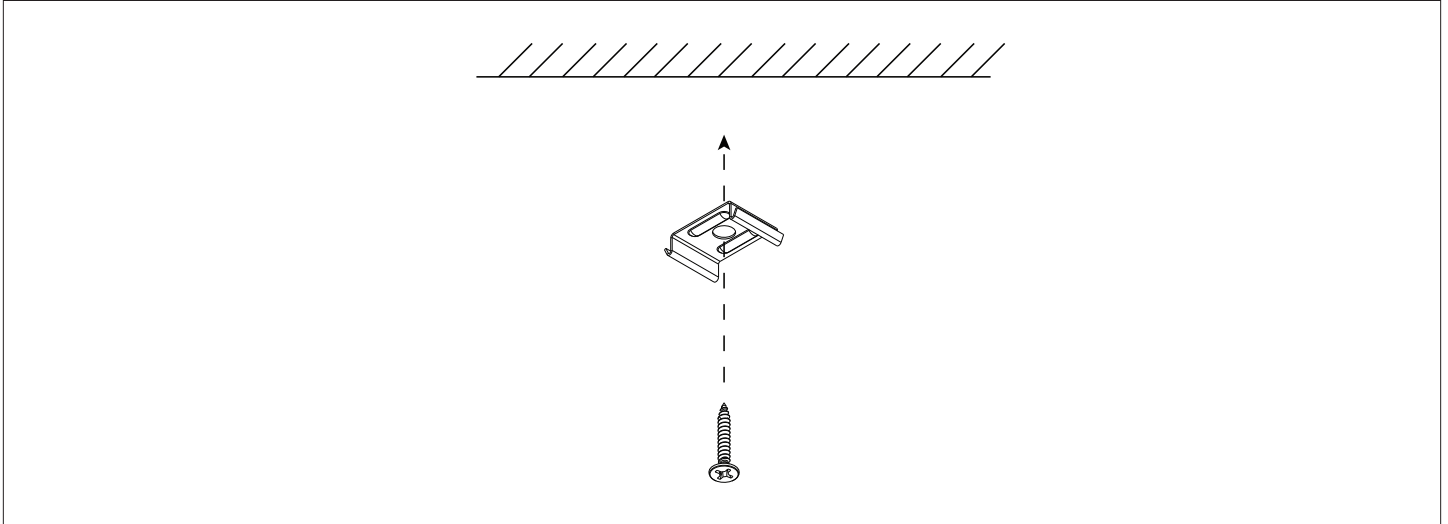
Designed & Built in
BOSTON

Declare



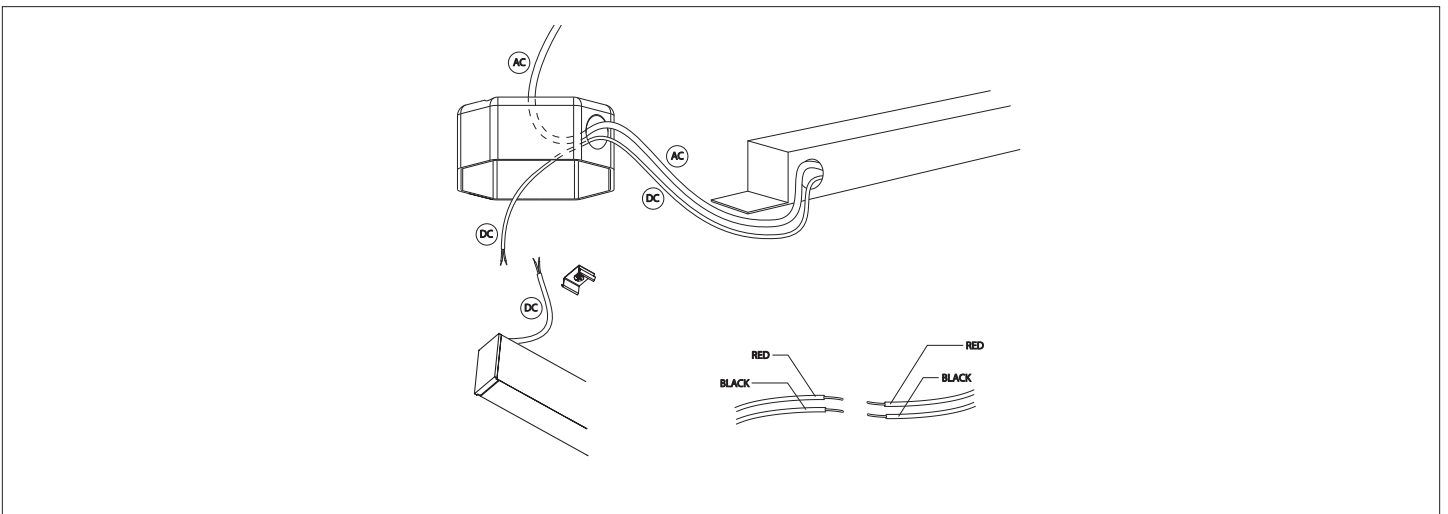
STEP 2 — Secure Mounting Clips NANOBeam Surface Mount

Secure the mounting clips to the mounting surface with the appropriate hardware.



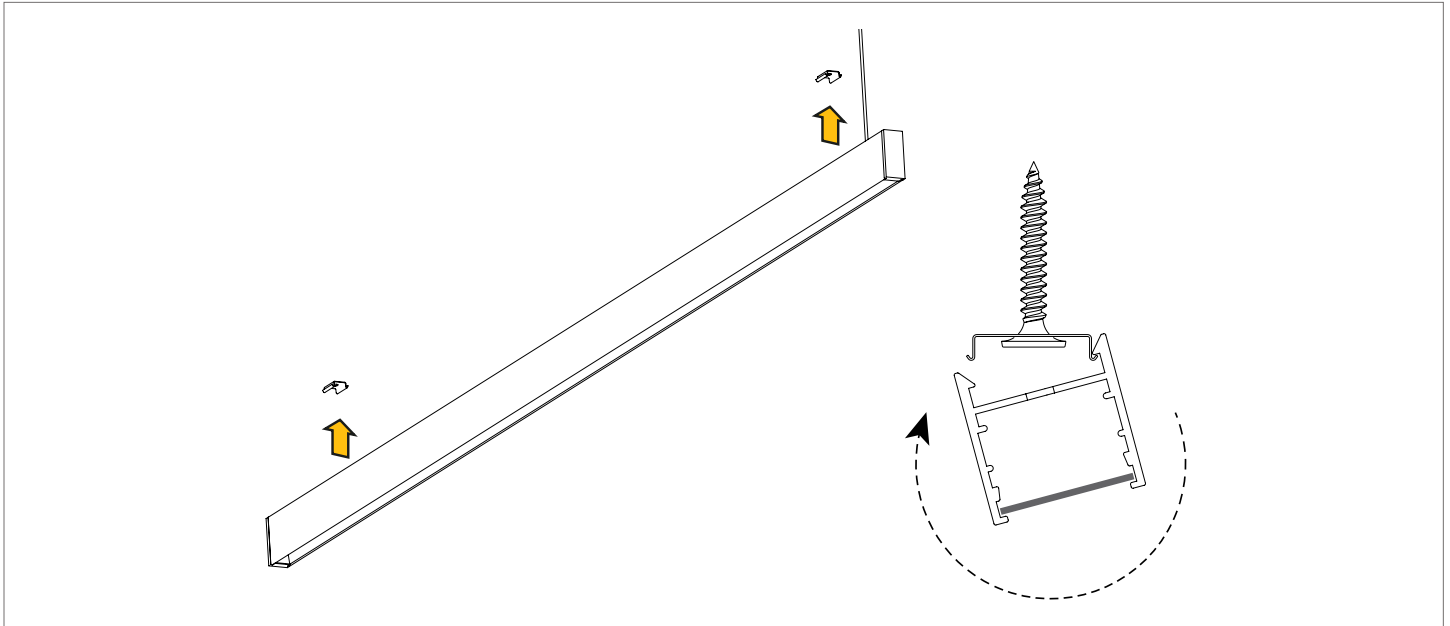
STEP 3 — Install Remote Driver Box NANOBeam Surface Mount

Install the Remote Driver Box. Raise the NANOBeam fixture to the mounting surface and connect the wires to an approved power source or Driver Box. Refer to the wiring diagram.



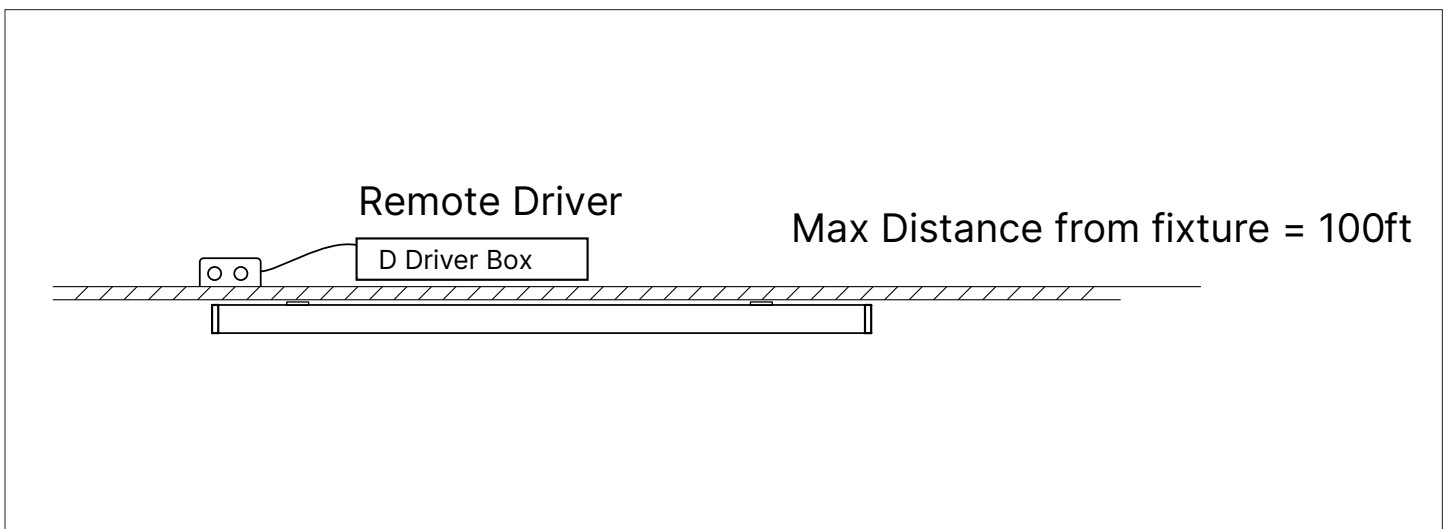
STEP 4 — Fixture Mounting NANOBeam Surface Mount

Raise the NANOBeam fixture and engage the mounting clips. The fixture will click when properly seated.



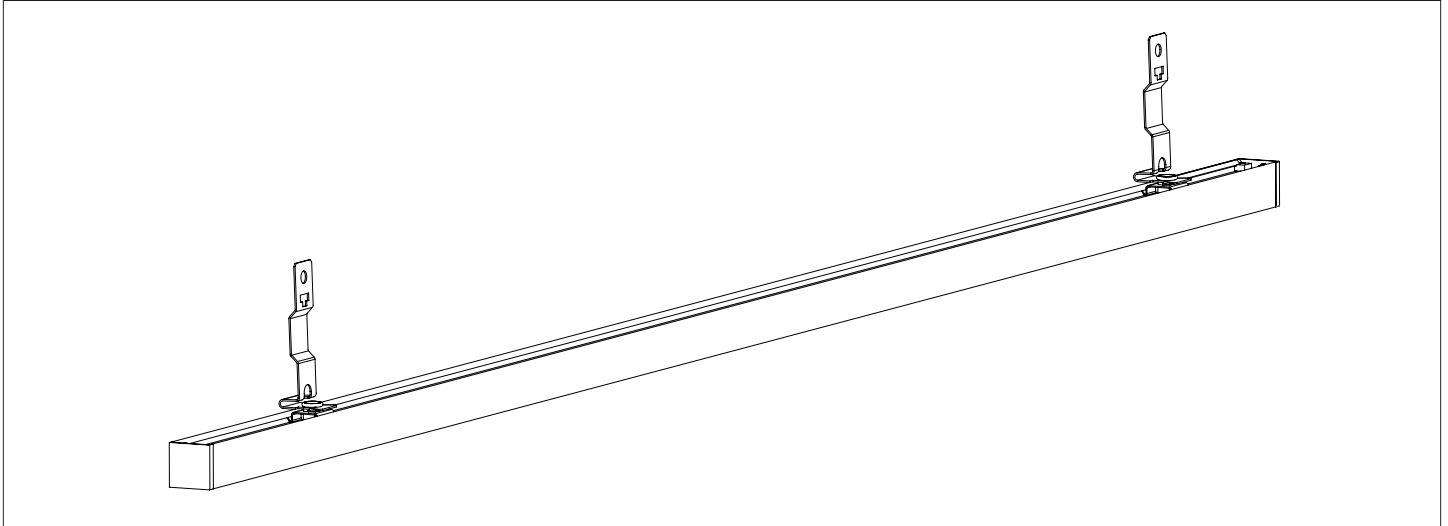
STEP 5 — Final Installation NANOBeam Surface Mount

Restore power.



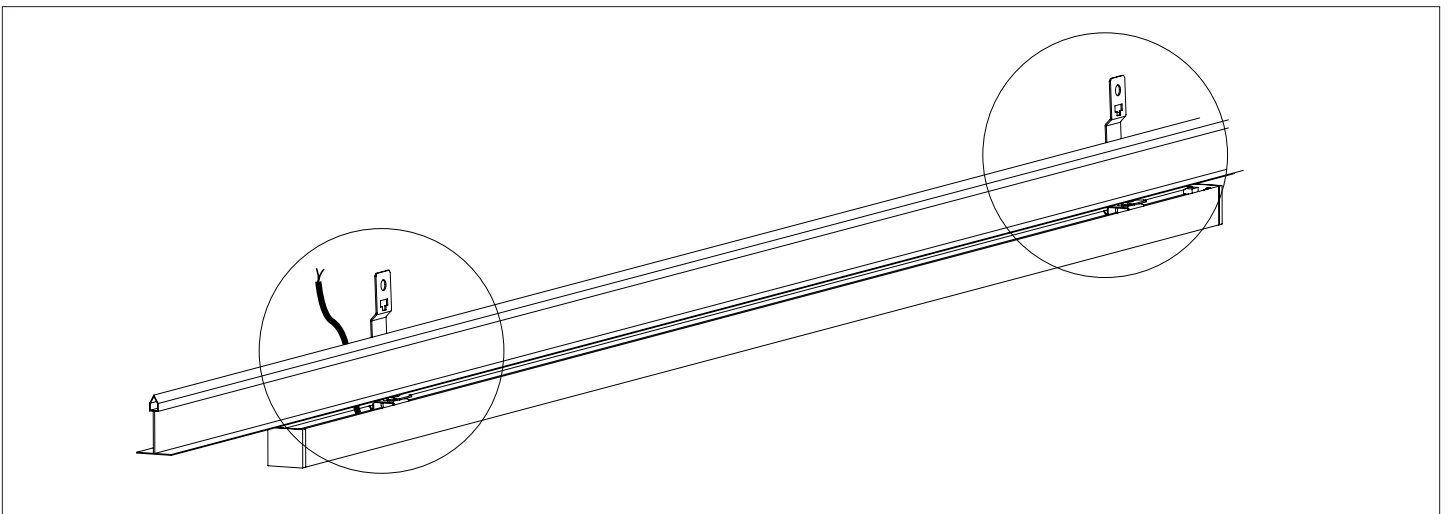
STEP 1 — TBar Clips NANOBeam Surface Mount TBar

The NANOBeam fixture comes fully assembled with TBar clips for your grid ceiling framework, if specified.



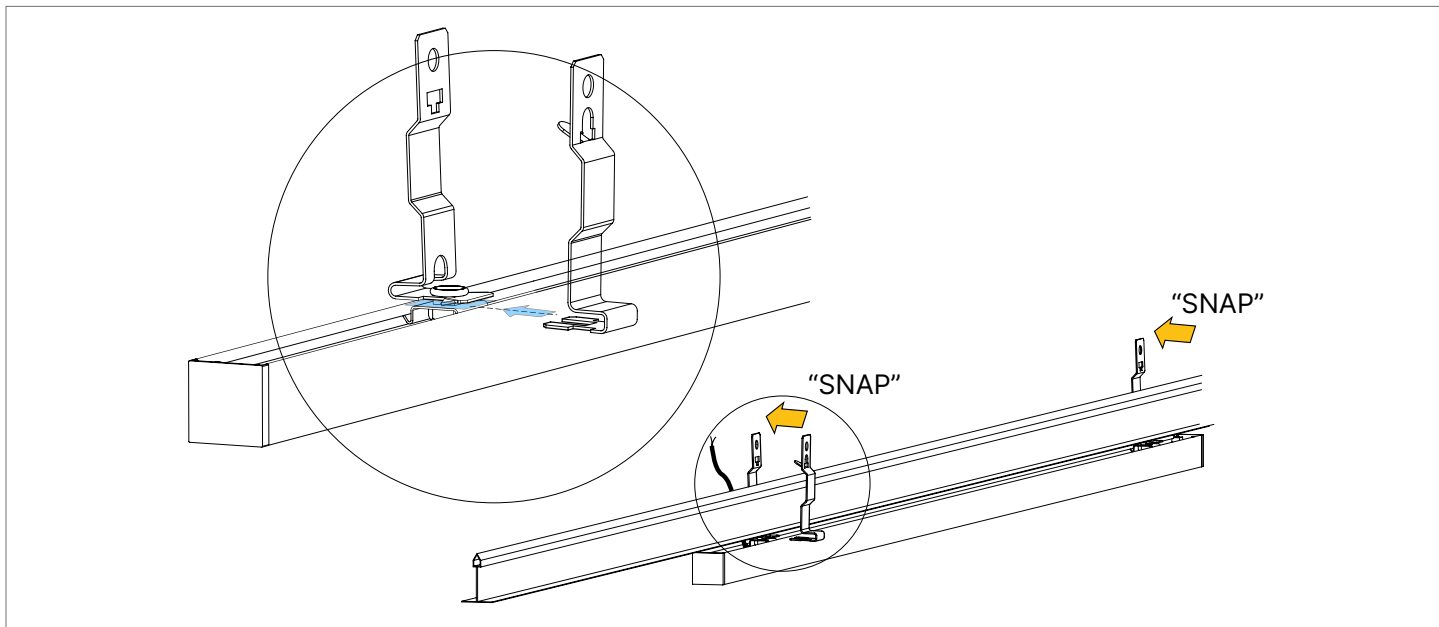
STEP 2 — Location on TBar NANOBeam Surface Mount TBar

Bring the NANOBeam fixture up to the desired location on the TBar. Allow wires to pass through framework.



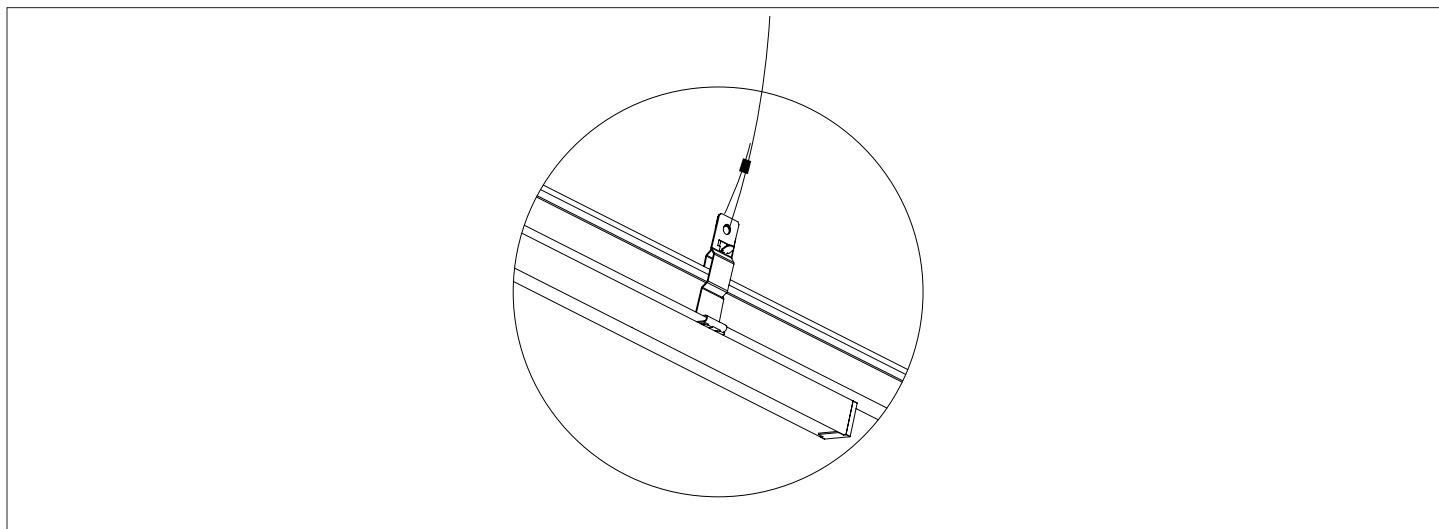
STEP 3 — Fixture Mounting NANOBeam Surface Mount TBar

Engage the TBar clips by inserting the loose clip below the clip base that is mounted to the NANOBeam fixture. The clips will SNAP when fully engaged.



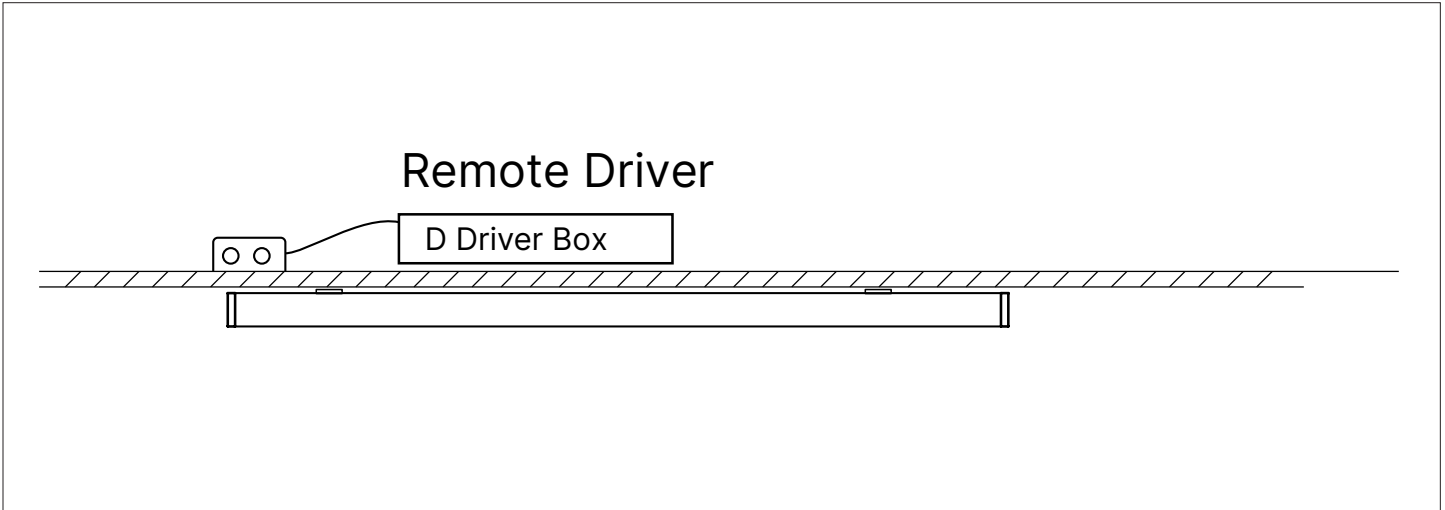
STEP 4 — Secure to Support NANOBeam Surface Mount TBar

Secure the NANOBeam fixture to an appropriate structural support beam or hanger.



STEP 5 — Final Installation NANOBeam Surface Mount TBar

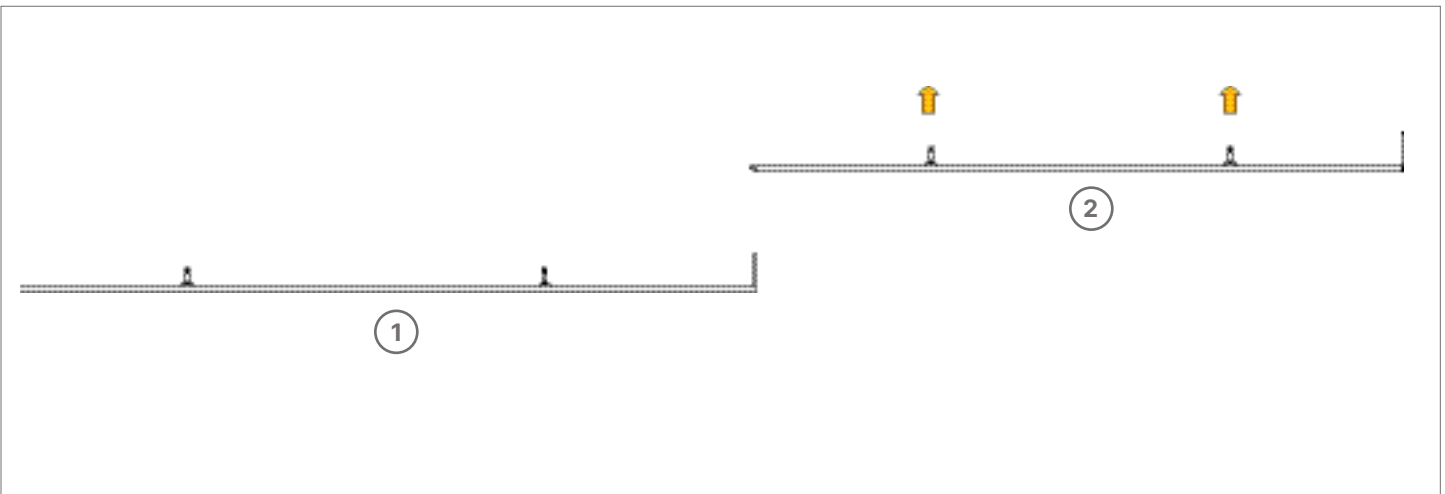
Locate and install the Remote Driver Box. Connect the NANOBeam fixtures DC cables to the Driver Box. Connect AC power to the Driver. Refer to the wiring diagram. Restore power.



NANOBeam Surface Continuous Run

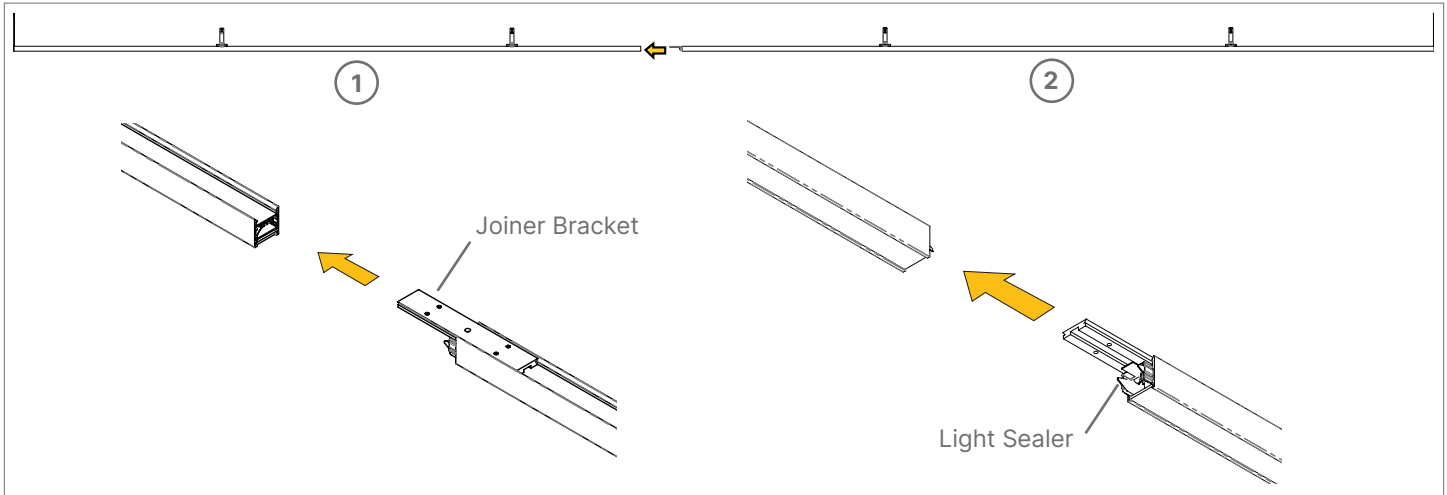
STEP 1 Mounting EOR Fixture NANOBeam Surface Continuous Run

Bring the END OF RUN (EOR) NANOBeam fixture up to the desired location. Refer to previous steps on how to mount fixtures on a mounting surface or TBar. Allow wires to pass through framework.



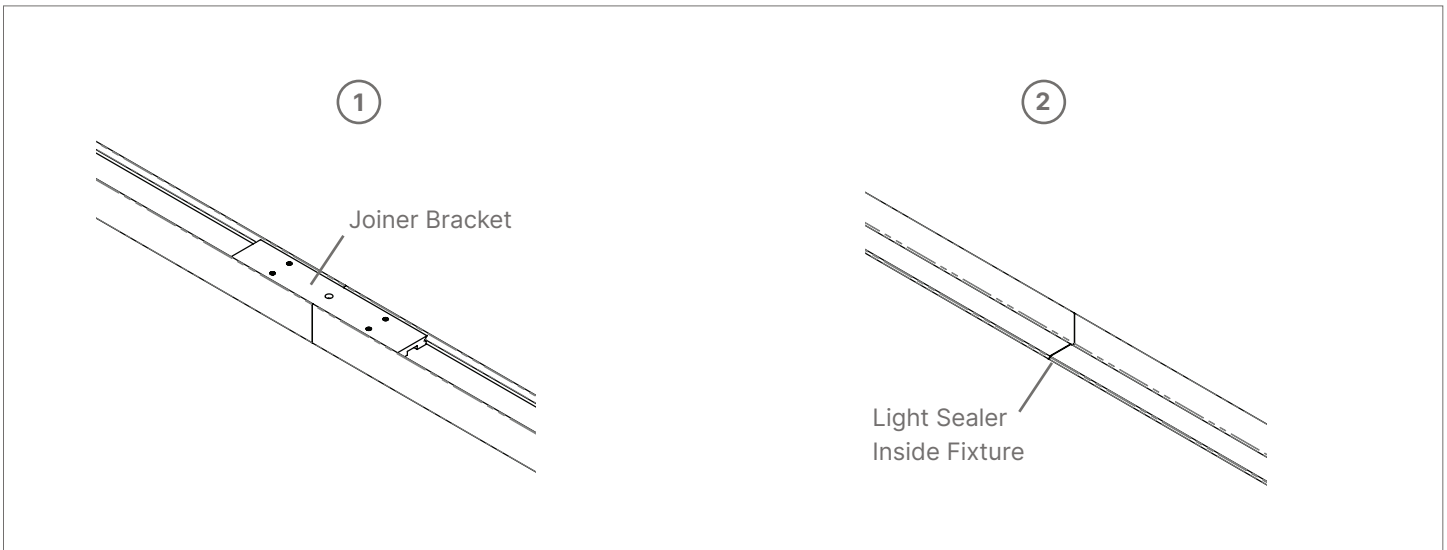
STEP 2 — Engage Joiner Bracket and Light Sealer NANOBeam Surface Continuous Run

Engage the NANOBeam fixtures together by sliding the Joiner Bracket and Light Sealer into the second fixture. The Joiner Bracket and Light Sealer come fully assembled.



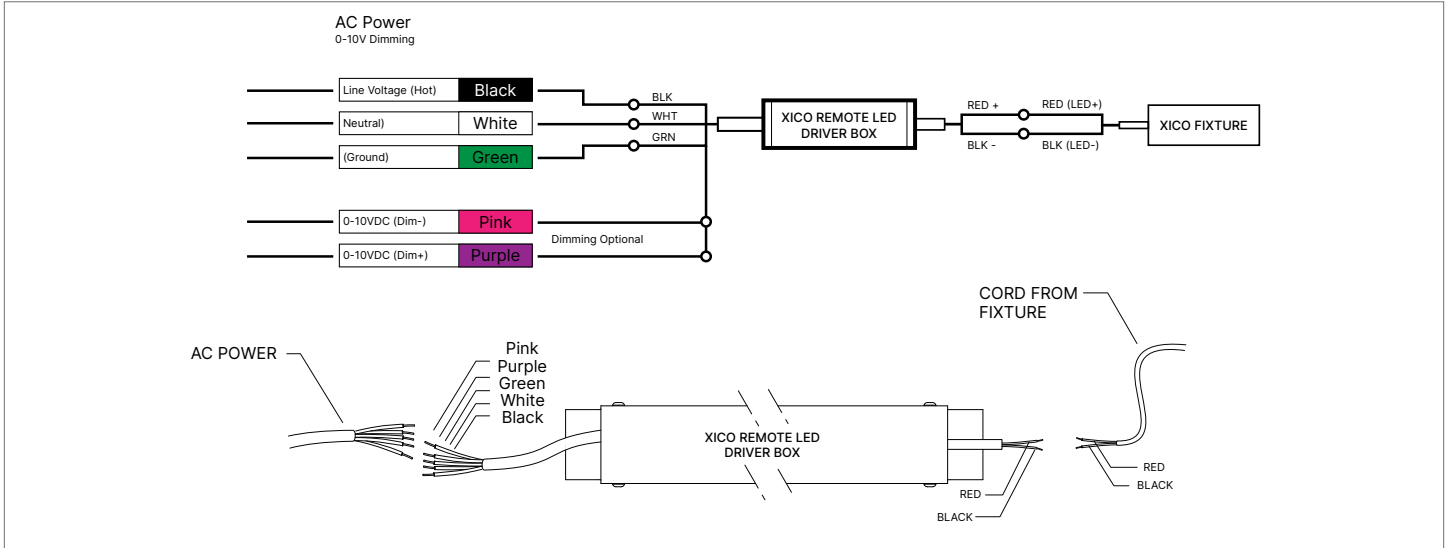
STEP 3 — Final Product NANOBeam Surface Continuous Run

The Joiner Bracket and Light Sealer are fully engaged. Fasten Joiner Bracket with appropriate hardware. Repeat previous step depending on the number of fixtures in your assembly.



Wiring Guide

Wire the Power Feed End to the J-Box.



Voltage Drop

24 VDC and Wire Length Chart (Driver to Fixture)

XICO LED Fixture with Remote Drivers

When installing a XICO fixture with a remote driver and the distance is a long way from the fixture, it is important to properly specify the correct wire gauge (AWG/ or thickness of wire) for the distance of wire required. The maximum remote mounting distance is a function of the total voltage-drop across the output of the LED Driver.

How to Use the Chart

- Step 1:** Calculate the total wattage of the LED lighting system (round up to the nearest 10 W).
- Step 2:** Find the wattage in the top row and follow the column down to maximum length (round up) of wiring between the LEDs and the power supply.
- Step 3:** Look to the left column for the wire gauge size required to prevent voltage drop over 3%.

Maximum Cable Length from Remote Driver to Fixture — 24 VDC Driver										
Wire Gauge	Total Fixture Wattage (W)									
	10 W	20 W	30 W	40 W	50 W	60 W	70 W	80 W	90 W	100 W
18 AWG	134 ft	68 ft	45 ft	33 ft	27 ft	22 ft	19 ft	17 ft	15 ft	14 ft
16 AWG	215 ft	109 ft	72 ft	54 ft	43 ft	36 ft	31 ft	27 ft	24 ft	22 ft
14 AWG	345 ft	174 ft	115 ft	86 ft	69 ft	57 ft	49 ft	43 ft	39 ft	36 ft
12 AWG	539 ft	272 ft	181 ft	135 ft	108 ft	90 ft	77 ft	68 ft	62 ft	56 ft
10 AWG	784 ft	397 ft	263 ft	197 ft	158 ft	131 ft	112 ft	98 ft	95 ft	82 ft

Remote Driver to Fixture Example

Calculate total load

An 8 ft fixture using 4 W/ft requires a total of 32 W. Round up to the nearest load of 40 W.

Find distance from driver to Load

Let's assume the distance is 40 ft from the driver to the fixture. Round up to the nearest distance of 54 ft.

Choose wire gauge

It's recommended to install 16 AWG wire between the driver and fixture to eliminate noticeable voltage drop.