

# T BAR LIGHT INSTRUCTION



## IMPORTANT:

READ CAREFULLY BEFORE OPERATING THIS FIXTURE. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE. THIS FIXTURE MUST BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. PROPER GROUNDING IS REQUIRED FOR SAFETY. WE STRONGLY ENCOURAGE ONLY A LICENSED ELECTRICIAN INSTALL, OPERATE AND MAINTAIN THIS PRODUCT. IF YOU ARE NOT QUALIFIED OR UNFAMILIAR WITH ANY ASPECT OF THIS INSTRUCTION SHEET, CONSULT AN ELECTRICIAN.



## WARNING:

**RISK OF FIRE AND ELECTRIC SHOCK**-DISCONNECT POWER AT BREAKER BEFORE WIRING OR SERVICING.

**RISK OF PERSONAL INJURY**-FIXTURE MAY BECOME UNSTABLE OR DAMAGED IF NOT INSTALLED PROPERLY.

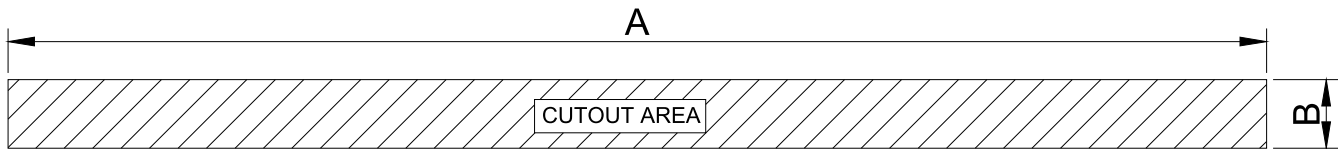
**RISK OF BURN**-ALLOW FIXTURE TO COOL BEFORE SERVICING.

**RISK OF FIRE OR ELECTRICAL SHOCK**-NOT FOR USE WITH EMERGENCY EXITS.

**RISK OF FIRE OF ELECTRICAL SHOCK**-DO NOT LEAVE ANY OPEN HOLES IN AN ENCLOSURE OF WIRING OR OTHER ELECTRICAL COMPONENTS.

**RISK OF FIRE OF ELECTRICAL SHOCK**-TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS.

FOR INDOOR USE ONLY. SUITABLE FOR DRY AND DAMP LOCATIONS.

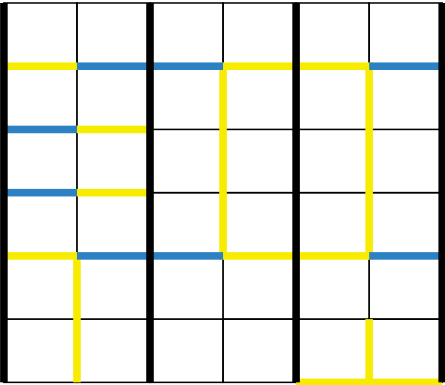


| LENGTH | GRID  | DIMENSION "A"    | DIMENSION "B" |
|--------|-------|------------------|---------------|
| 2FT    | 15/16 | 600mm(23.62 in)  | 25mm(1 in)    |
| 2FT    | 9/16  | 600mm(23.62 in)  | 15mm(0.59 in) |
| 4FT    | 15/16 | 1200mm(47.24 in) | 25mm(1 in)    |
| 4FT    | 9/16  | 1200mm(47.24 in) | 15mm(0.59 in) |
| 2L4T   | 15/16 | 1200mm(47.24 in) | 25mm(1 in)    |
| 2L4T   | 9/16  | 1200mm(47.24 in) | 15mm(0.59 in) |

## INSTALLATION

### STEP 1: BUILD PATTERN

Before installation, you should build the pattern to show where the T Bar light should be located and which T Bar light should be used. The 2L4T models used to create shapes and patterns that include a 90 degree lighted connection. Here is a example pattern for reference.

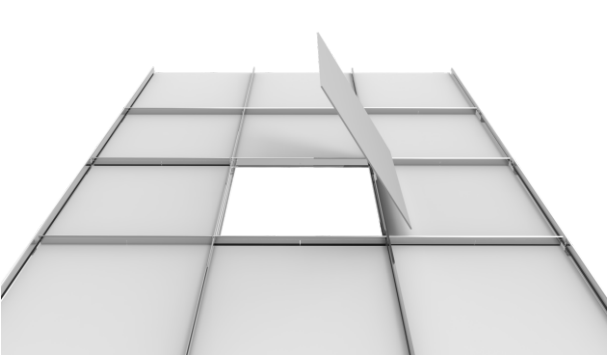


- T Bar lights
- 2L4T model  
(half light and half exposed grid flange)
- Cross Tee
- One-piece main runner

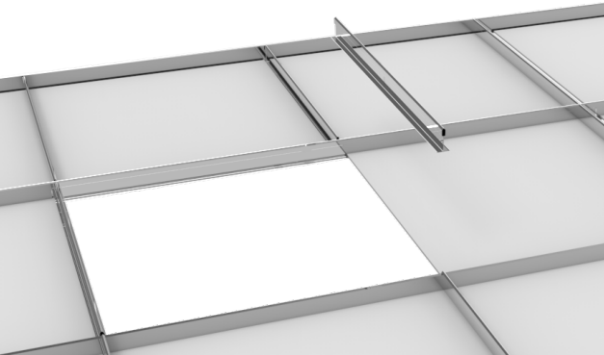
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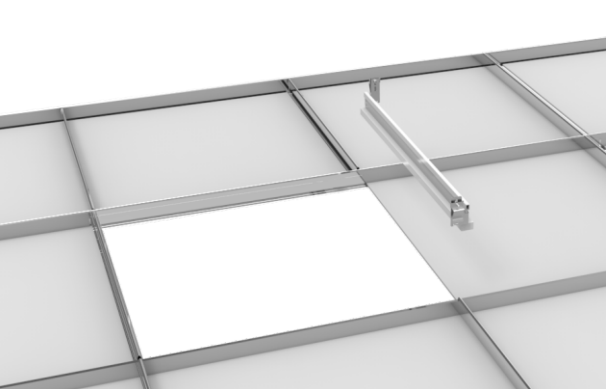
### STEP 2: REMOVE THE TILES TEMPORARILY



### STEP 3: REMOVE THE 2' OR 4' CROSS TEE

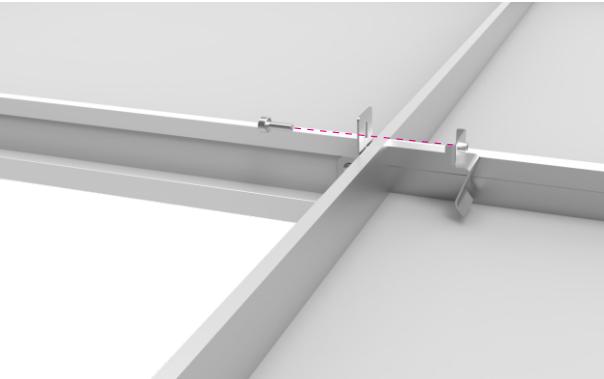


### STEP 4: REPLACE THE TEE WITH T BAR LIGHT



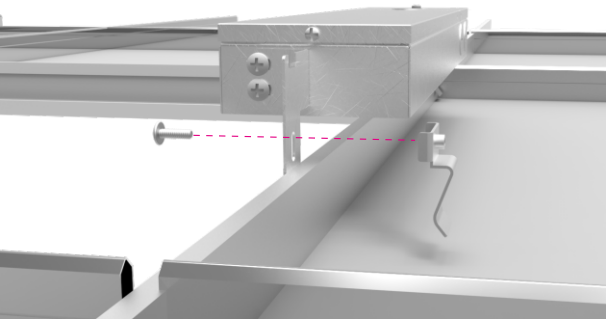
### STEP 5: SECURE THE T BAR LIGHT

Use a Phillips screwdriver to tight the clips on each end. There are 2 slots on the mounting bracket are designed to accomodate different grid heights.



### STEP 6: SECURE THE REMOTE J-BOX

Place the remote J-box in a appropriate location and secure it by repeating Step 5.



### STEP 7: WIRING

Connect T bar lights to remote J-box via RJ11 quick-connector for power supply.

Daisy chain the 0-10V single via RJ45 quick-connector between each remote J-box.

Wire the 0-10v dimmer/power pack to remote J-box.

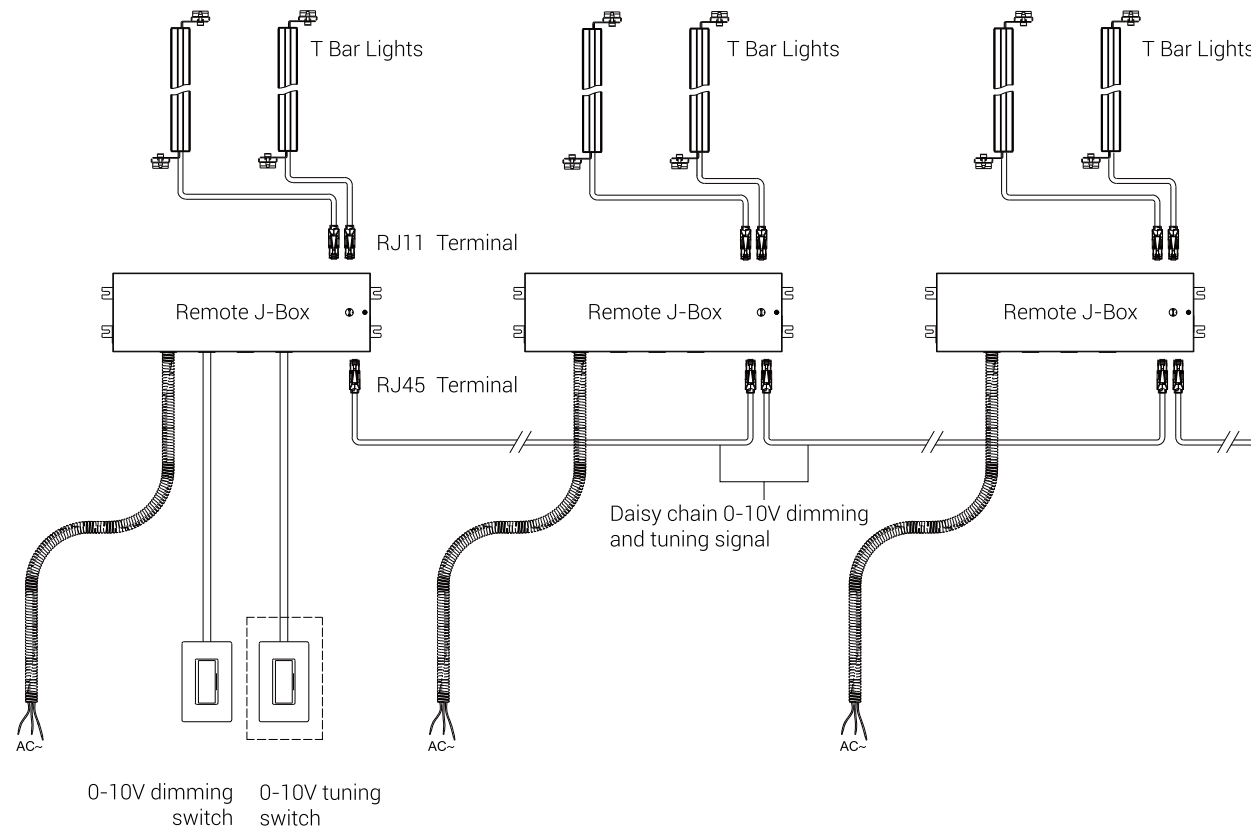
See detailed wiring diagram on next page.

After wiring, install the tiles back (over the T bar lights).

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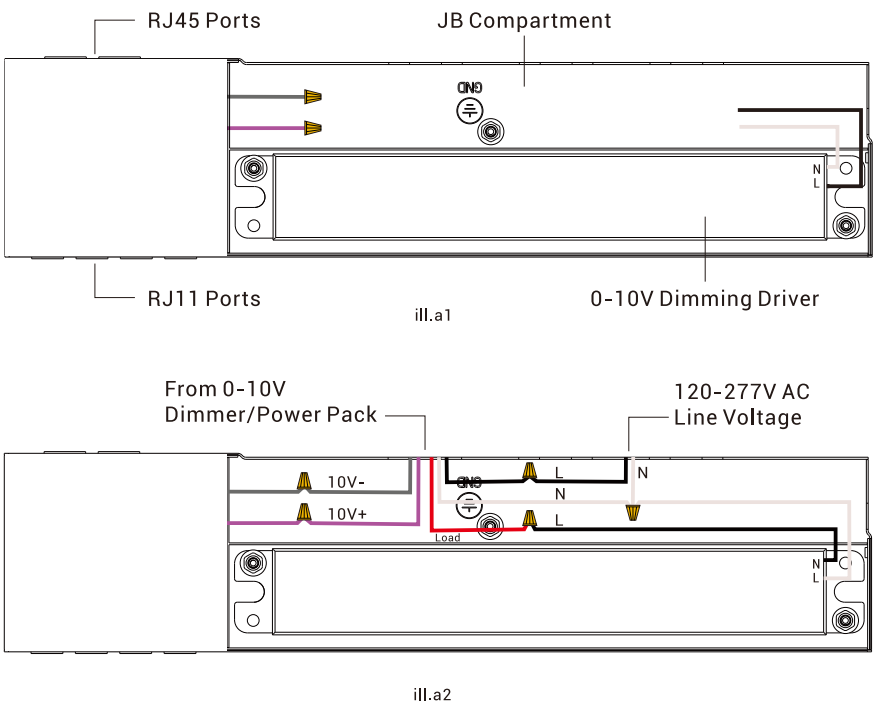
## OVERALL WIRING:



## ELECTRICAL RATINGS:

| MODEL NUMBER     | POWER COMSUPTION | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | RJ11 PORT | RJ45 PORT | POWERED T BAR QTY | DIMMING | TUNING |
|------------------|------------------|---------------|----------------|----------------|-----------|-----------|-------------------|---------|--------|
| TG-HLD050L-1200  | 65W              | 120-277V AC   | 20-45V         | 600mA/Port     | 2         | 2         | 2x4'              | 0-10V   | 0-10V  |
| TG-HLD030L-700   | 35W              | 120-277V AC   | 20-45V         | 350mA/Port     | 2         | 2         | 2x2'              | 0-10V   | 0-10V  |
| TG-HLS060-1200-2 | 65W              | 120-277V AC   | 30-50V         | 600mA/Port     | 2         | 2         | 2x4'              | 0-10V   | N/A    |
| TG-HLS060-1200-4 | 65W              | 120-277V AC   | 30-50V         | 300mA/Port     | 4         | 2         | 4x2'              | 0-10V   | N/A    |

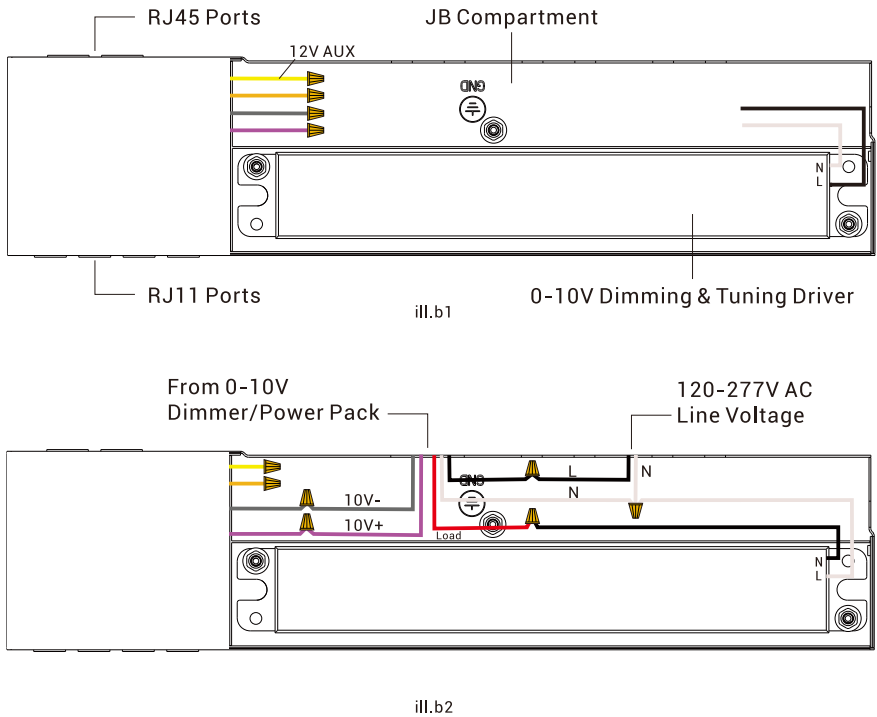
## REMOTE J-BOX WIRING:



**⚠ RISK OF FIRE AND ELECTRIC SHOCK-DISCONNECT POWER AT BREAKER BEFORE WIRING OR SERVICING.**

- For 0-10v dimming solution wiring.
- Applied driver model numbers:  
TG-HLS060-1200-2  
TG-HLS060-1200-4
- ill.a1 shows default wiring from factory.
- ill.a2 shows how to connect the 0-10v dimmer/power pack to the remote J-box.
- Ground wire must connect to the GND pole which didn't show in the diagram.

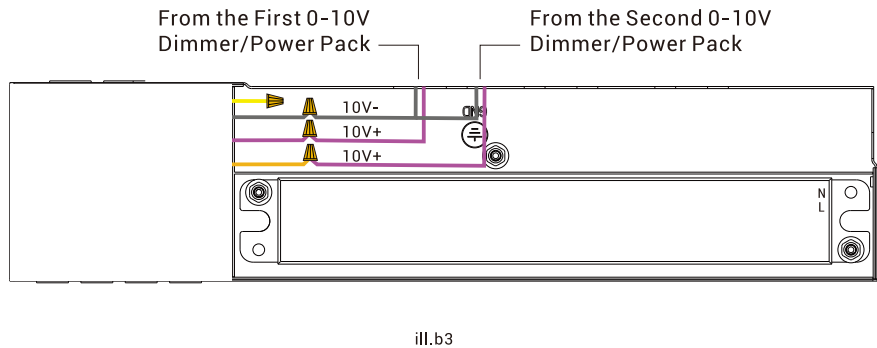
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**⚠ RISK OF FIRE AND ELECTRIC SHOCK-DISCONNECT POWER AT BREAKER BEFORE WIRING OR SERVICING.**

- For 0-10v dimming & 0-10v tuning solution wiring.
- Applied driver model numbers:  
TG-HLD050L-1200  
TG-HLD030L-700
- ill.b1 shows default wiring from factory.
- ill.b2 shows how to connect the 0-10v dimmer/power pack to the remote J-box.

*The 0-10v dimming & 0-10v tuning solution allows to connect 2 dimmers / power packs to 1 remote J-box, which enable to adjust the power and color temperature respectively.*



- ill.b3 shows the DC wiring about how to connect 2 dimmers/power packs to the remote J-box.
- ill.b4 shows the AC wiring about how to connect 2 dimmers/power packs to the remote J-box.
- Both DC and AC wiring need be finished.
- Ground wire must connect to the GND pole which didn't show in the diagram.

