

LSA SERIES

UP/DOWN LINEAR LIGHT

INTRODUCTION

The FGE-LSA Series Up/Down Linear Light is a stylish and versatile lighting solution designed for offices, commercial spaces, meeting rooms, and architectural interiors. Featuring a dual-emission design, it provides both direct and indirect lighting, creating balanced brightness and a comfortable visual environment.

Equipped with high-efficacy LED chips and microprismatic optical lenses, the LSA delivers soft, uniform, and glare-free illumination with an efficiency of up to 130 lm/W. Its slim aluminum profile ensures elegant appearance and excellent heat dissipation, suitable for suspended, wall mounted and surface-mounted installation.

Available in various lengths, wattages, and CCT options, the LSA Series supports DALI / 0-10V dimming and continuous connection, allowing flexible configuration for different space designs. With a 100,000-hour lifetime and 5-year warranty, it offers a refined, durable, and energy-efficient lighting solution for modern architectural environments.



cULus LISTED NOM CE RoHS IP20

LM-79 LM-80 TM-21 ISTMT IEC

FEATURES

5 WATTS SELECTABLE

Wattage Selectable: Multi-wattage options in a single fixture for flexible applications and reduced inventory.

5 CCTS SELECTABLE

5 CCTS Selectable: Adjustable color temperature to suit diverse environments.

130lm/W

High Efficacy & Energy Saving: Up to 130 lm/W, reducing energy consumption by over 60% compared with HID fixtures.

0-10V DIMMABLE

Smart Control Ready: Compatible with 0-10V/DALI dimming, optional microwave/ infrared sensor, and emergency kit.

600W

Seamless connection up to 600W: Easy installation, unified power supply, and flexible expansion for large-space lighting.

SENSOR

Motion Sensor Option: Provides smart lighting control to improve energy efficiency and convenience.

EMERGENCY BACKUP

90 Minutes EM Back-up Options: Ensuring safety and visibility during critical moments.

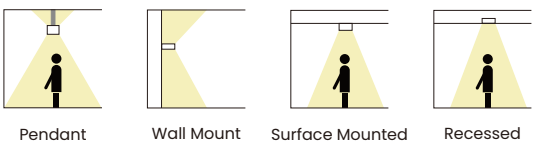
RELIABLE WARRANTY

Reliable Warranty: 5 Years Warranty.

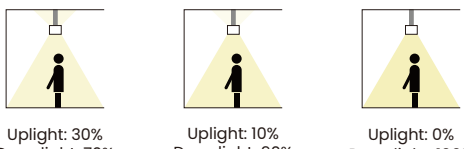
Flexible Configurations: As many as eight fixtures can be linked together on one power source, and all shaped fixtures feature uniform lighting that eliminates hot spots. It empowers users through customization and personalization.



Multiple mounting options: They offer ultimate flexibility for installation in any environment or application.



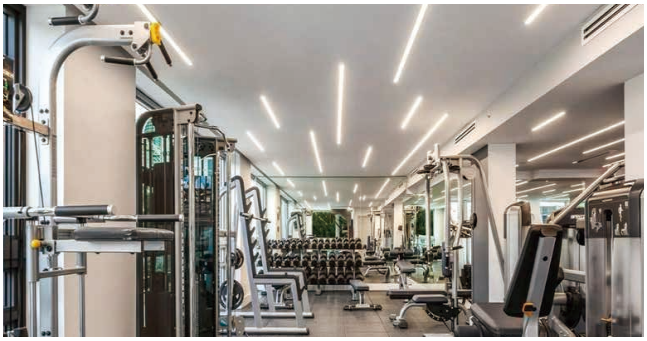
Adjustable Light Distributions: It delivers precise, efficient, and adaptive lighting by directing light exactly where and when it's needed.



APPLICATIONS



Offices: Linear suspended lights with indirect lighting are designed to distribute light evenly across workstations, reducing harsh shadows and glare from computer screens. This minimizes eye strain, fatigue, and headaches, helping employees maintain focus for longer periods.



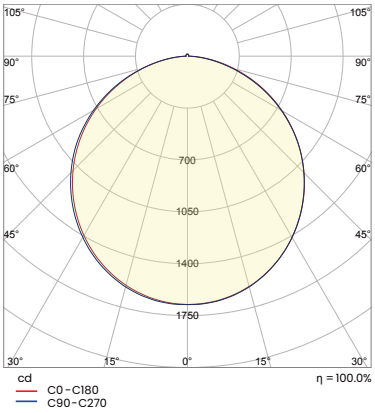
Gyms: Architectural lighting is not just about illuminating indoor gym spaces, it integrates functionality, user experience, and safety while enhancing the gym's aesthetic appeal.

TECHNICAL PARAMETERS

Product Model	LSA-40W	LSA-50W	LSA-100W
Length	2ft	4ft	8ft
Electrical Performance			
Wattage Selectable	40W/30W/25W/20W/15W	50W/40W/35W/30W/25W	100W/80W/70W/60W/50W
Input Voltage	AC120-277V	AC120-277V	AC120-277V
Frequency	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	>0.9	>0.9	>0.9
Surge Protection	2KV	2KV	2KV
THD	<20%	<20%	<20%
Optical Performance			
Luminous Efficacy	130lm/W	130lm/W	130lm/W
Luminous Flux	5200lm/3900lm/3250lm/2600lm/1950lm	6500lm/5200lm/4550lm/3900lm/3250lm	13000lm/10400lm/9100lm/7800lm/6500lm
CCT Selectable	3500K/4000K/5000K/5700K/6500K	3500K/4000K/5000K/5700K/6500K	3500K/4000K/5000K/5700K/6500K
CRI	Ra>80	Ra>80	Ra>80
Beam Angle	90°	90°	90°
Unified Glare Rating (UGR)	<28	<28	<28
Reliability			
Lifetime	>100,000h	>100,000h	>100,000h
Operating Temperature	-20 ~ +45°C	-20 ~ +45°C	-20 ~ +45°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP20	IP20	IP20
Impact Resistance	IK08	IK08	IK08
Control			
Dimming	0–10V/DALI	0–10V/DALI	0–10V/DALI
Sensor	Motion Sensor	Motion Sensor	Motion Sensor
Communication Protocol	-	-	-
Emergency Kit	-	-	-
Mechanical			
Housing Material	Aluminum	Aluminum	Aluminum
Lens Material	Polycarbonate	Polycarbonate	Polycarbonate
Coating	White/Black	White/Black	White/Black
Net Weight	1.2kg	2.1kg	3.6kg
Dimensions	575x69x80mm	1203x69x80mm	2400x69x80mm
Warranty	5 Years	5 Years	5 Years

PHOTOMETRICS

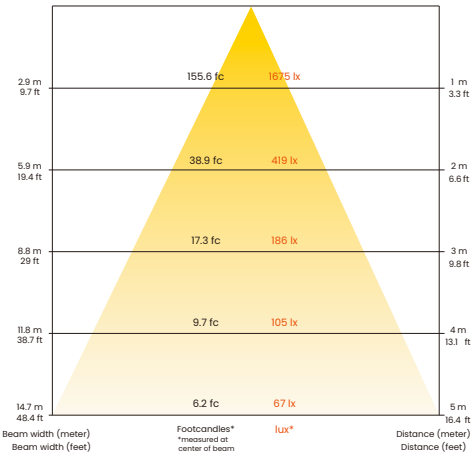
Polar light distribution diagram



90°

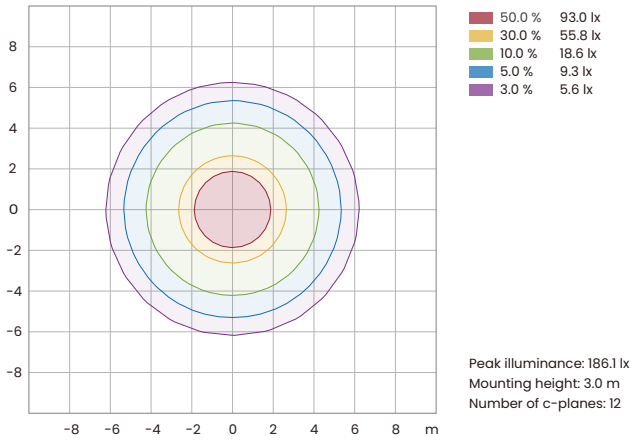
ILLUMINANCE DISTRIBUTION

Illuminance at A Distance



90°

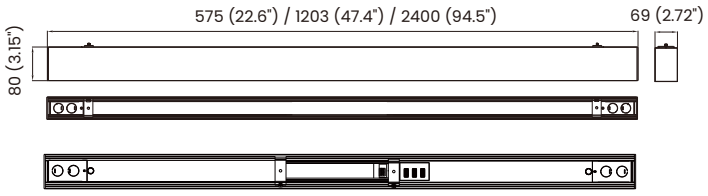
Iso-illuminance Diagram (Iso-lux)



Peak illuminance: 186.1 lx
Mounting height: 3.0 m
Number of c-planes: 12

90°

MECHANICAL DIMENSIONS

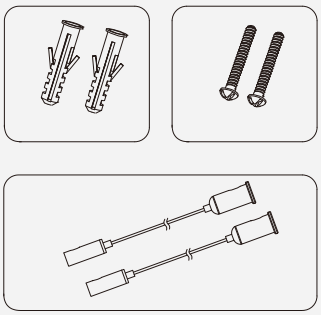


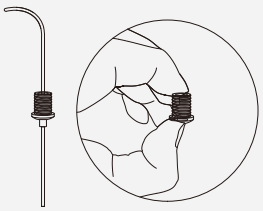
40W 50W 100W

Product Model	LSA-40W	LSA-50W	LSA-100W
Length	2ft	4ft	8ft
Wattage Selectable	40W/30W/25W/20W/15W	50W/40W/35W/30W/25W	100W/80W/70W/60W/50W
Outer box (L*W*H)	1667x410x368mm (65.6"x16.1"x14.5")	1258x410x368mm (49.5"x16.1"x14.5")	2455x310x250mm (96.7"x12.2"x9.8")
Q'ty/Ctn	12pcs	12pcs	6pcs
N.W./Ctn	1.35kg/2.98lbs	1.95kg/4.3lbs	3.7kg/8.16lbs
G.W./Ctn	17.3kg/38.1lbs	25.4kg/56lbs	26.5kg/58.4lbs
Remarks	-	-	-

INSTALLATION

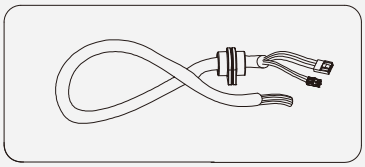
Parts List

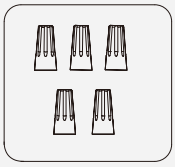




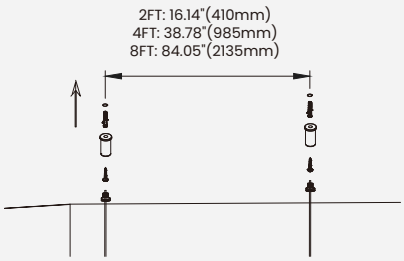
Press to adjust the length of the suspension wire

Driver's wires package (optional)

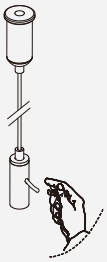




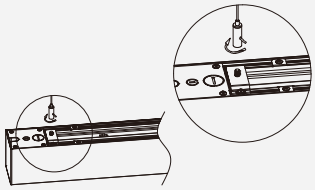
1. Fixing the hook and suspending the lamp.



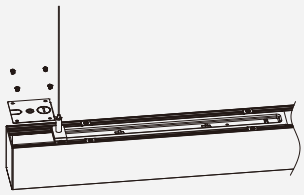
2. Adjusting the hanging rope length.



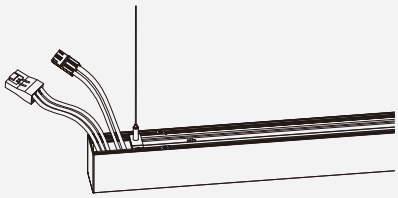
3. Use M5 square screw and M5 fixed head to fix LED strip light.



4. Open the back plate on the top of the lamp.



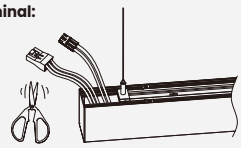
5. Take out the wire terminals.



6. Cut off the corresponding terminals as required.

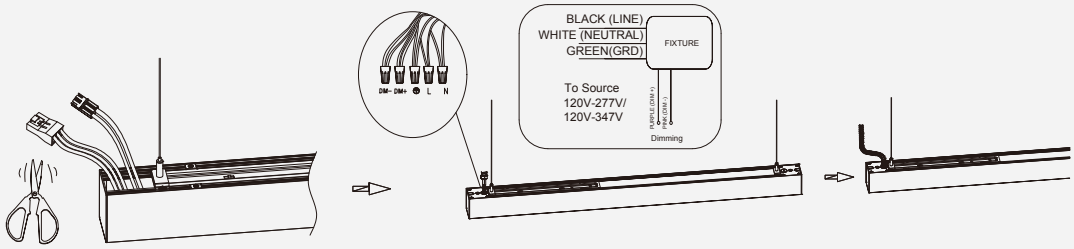
Three-position terminal:
BLACK (LINE)
WHITE (NEUTRAL)
GREEN(GRD)

Two terminals:
PURPLE (DIM +)
PINK (DIM -)



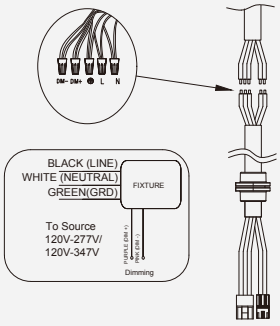
1. After cutting off the connecting terminals, the lighting fixture will no longer be able to link with other fixtures through terminals.
2. After cutting the wires, please ensure proper protection and labeling, and avoid using them for secondary wiring.

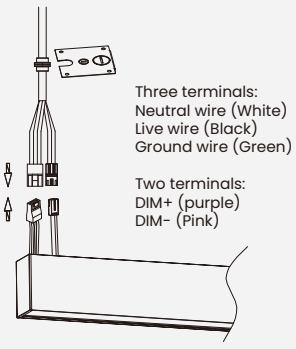
7. Turn off the power, then connect the wires using wire nuts.



Insert the terminal block and wires into the lamp housing after wiring is completed, then turn on the power to verify your successful installation.

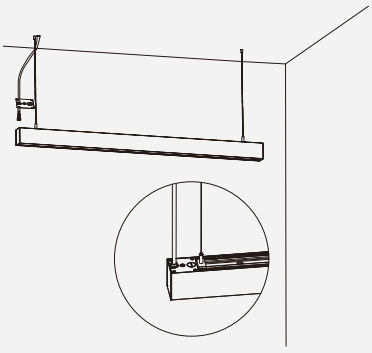
Input wire group (optional)





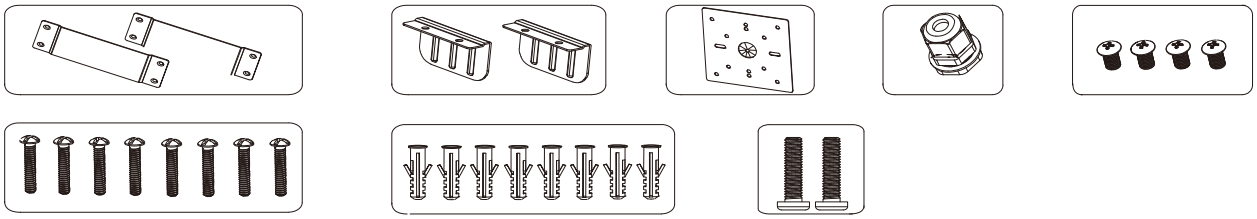
Three terminals:
Neutral wire (White)
Live wire (Black)
Ground wire (Green)

Two terminals:
DIM+ (purple)
DIM- (Pink)

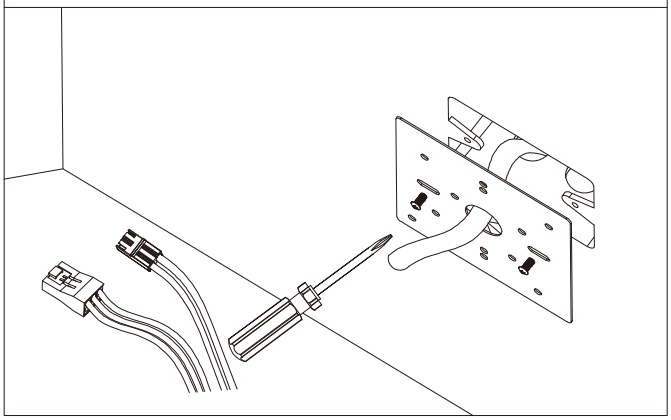


Wall Mount

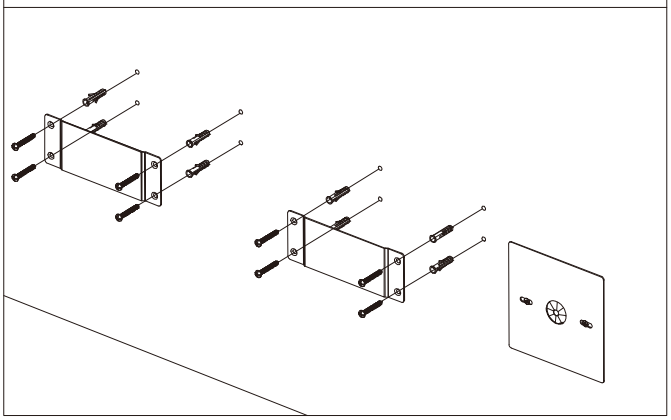
Accessories List



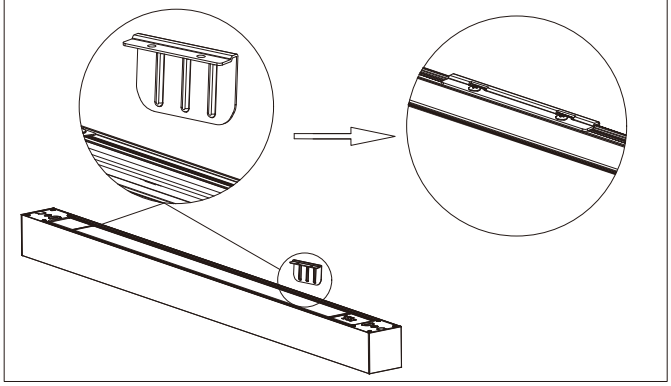
1. Pull out the wire and lock the trim.



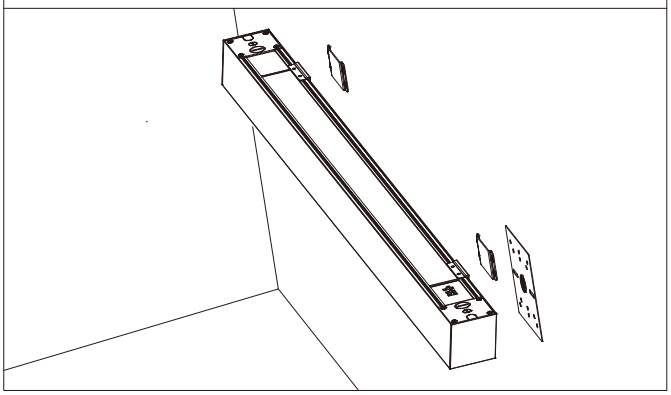
2. Set the appropriate distance and install mounting plate A.



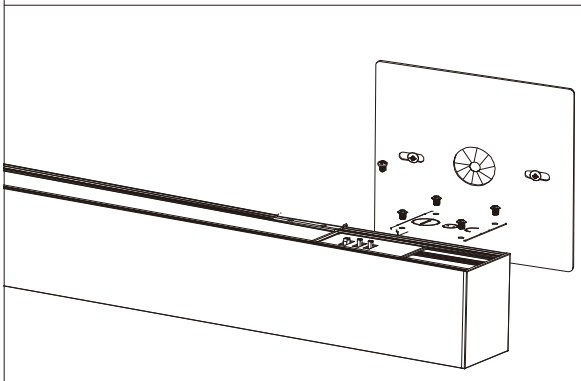
3. Install mounting board B on the lamp body according to the position of mounting board A.



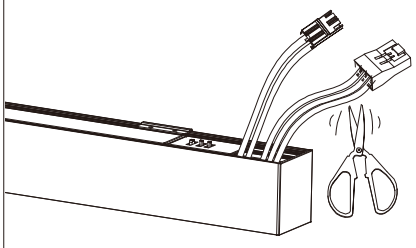
4. Insert mounting plate B on the light fixture into mounting plate A on the wall.



5. Remove one end screw of the lamp to pry open the wire hole.



6. Cut off one end of the terminal as required for wiring.



Three-position terminal:

BLACK (LINE)

WHITE (NEUTRAL)

GREEN(GRD)

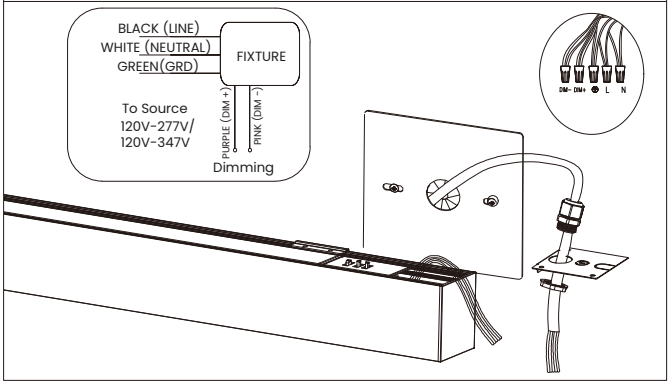
Two terminals:

PURPLE (DIM +)

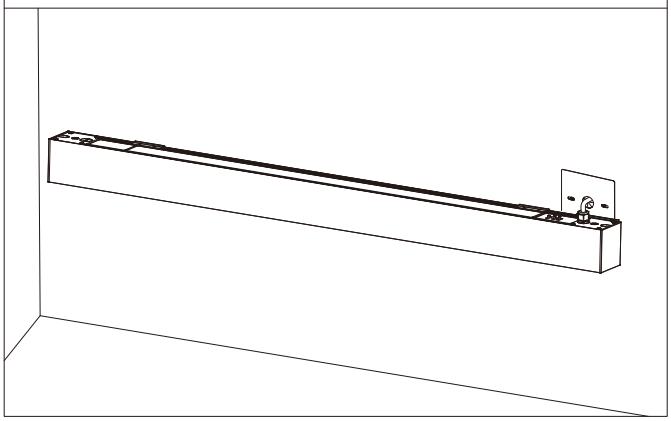
PINK (DIM -)

1. After cutting off the connecting terminals,the lighting fixture will no longer be able to link with other fixtures through terminals.
2. After cutting the wires, please ensure proper protection and labeling,and avoid using them for secondary wiring

7. Make wiring according to wiring diagram , screw back the cover.

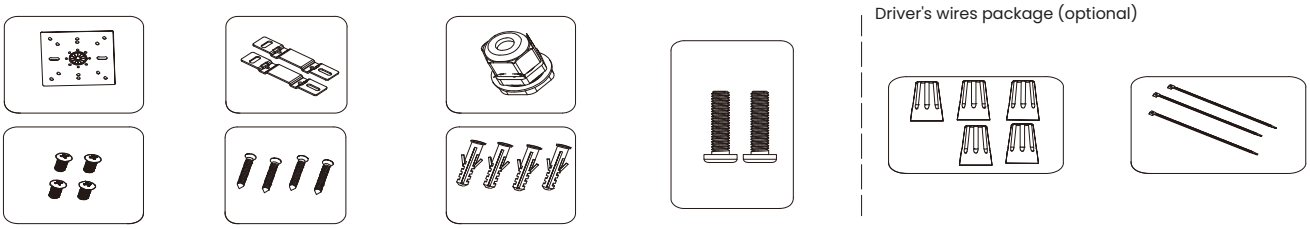


8. Open the end of the lamp to be connected.

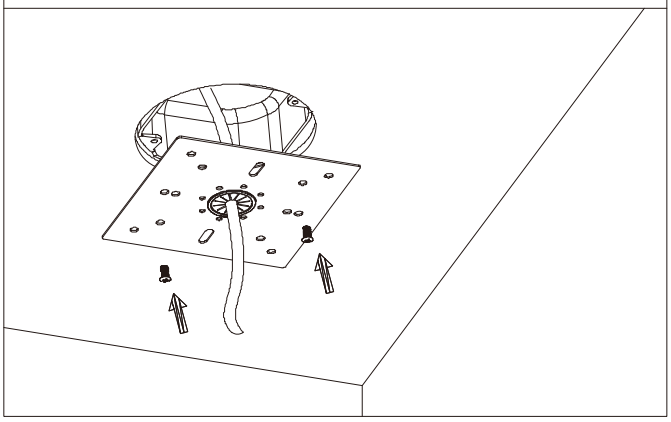


Surface Mount

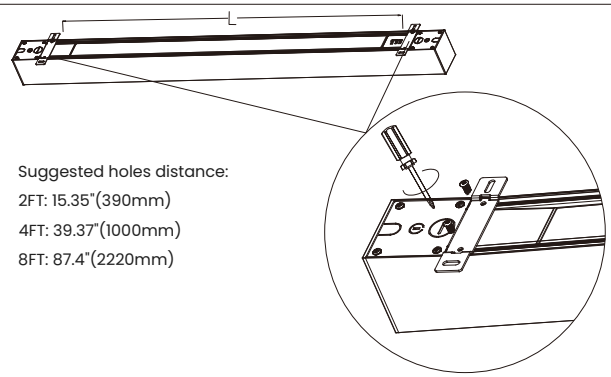
Accessories List



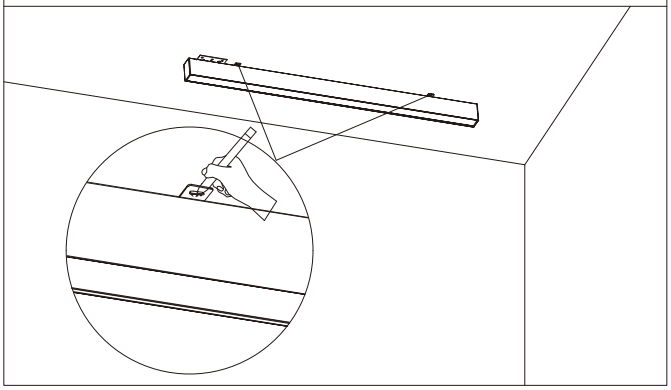
1. Attach the square plate onto the junction-box with screws.



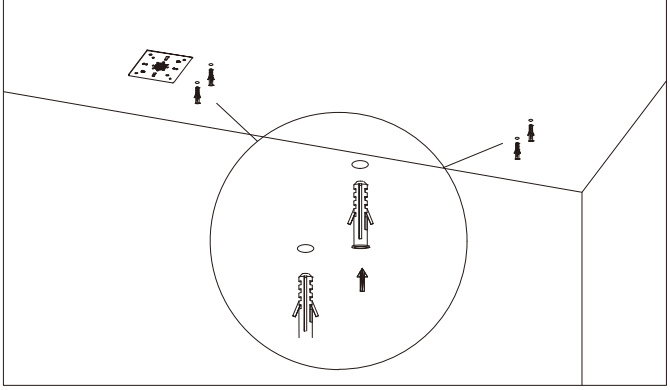
2. Fix the 2 surface-mounted brackets to fixture back with provided short screws.



3. Put and press the fixture onto mounting surface, then mark the mounting positions from brackets for step 4.



4. Drill the holes according to the marks and insert the anchors.



5. Cut off the corresponding terminals as required

Three-position terminal:

BLACK (LINE)

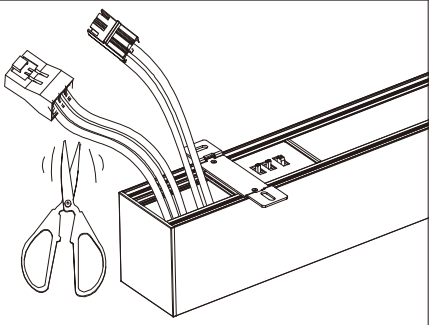
WHITE (NEUTRAL)

GREEN(GRD)

Two terminals:

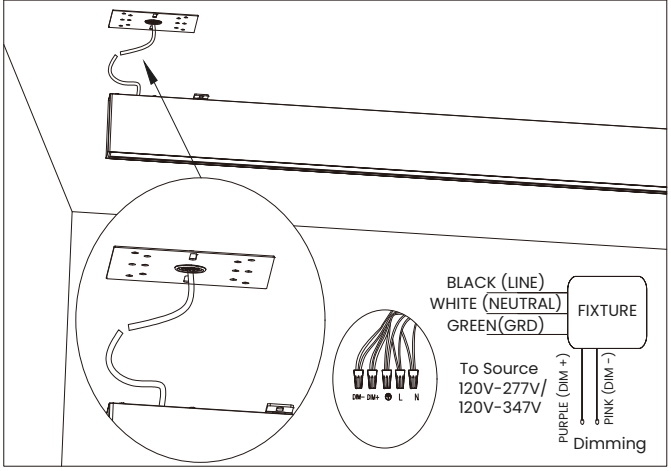
PURPLE (DIM +)

PINK (DIM -)

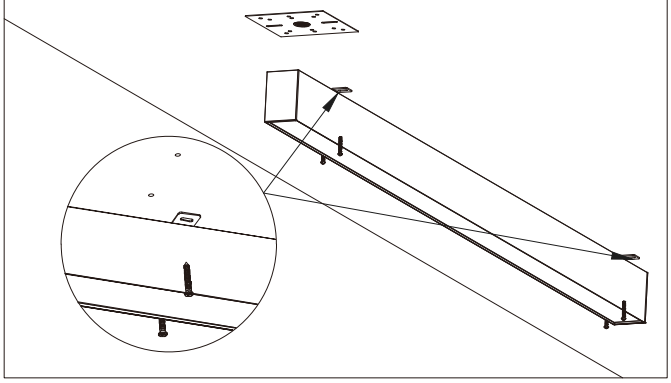


1. After cutting off the connecting terminals,the lighting fixture will no longer be able to link with other fixtures through terminals.
2. After cutting the wires, please ensure proper protection and labeling,and avoid using them for secondary wiring

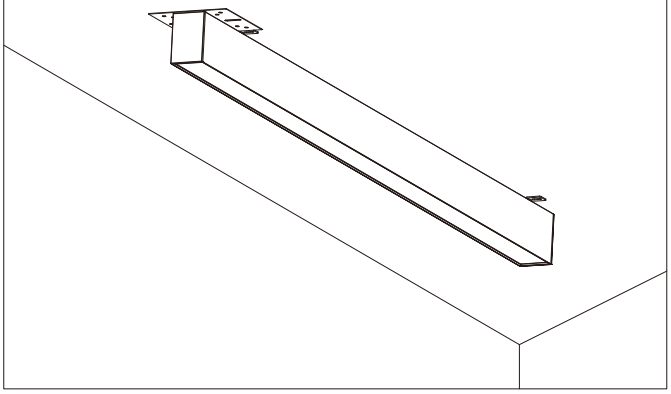
6. Open the end of the lamp to be connected.



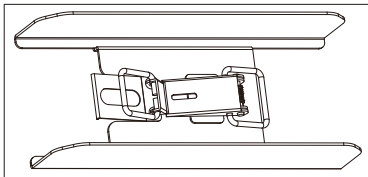
7. Secure the fixture to the mounting surface with long screws.



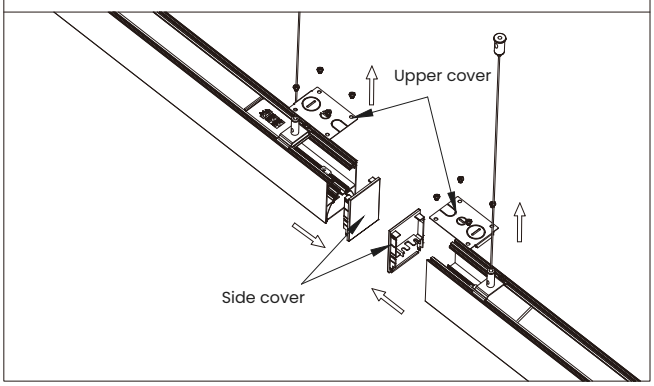
8. Installation completed.



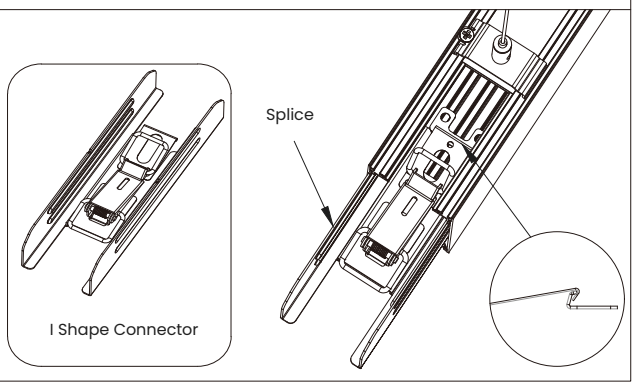
Linkable Connection Instructions



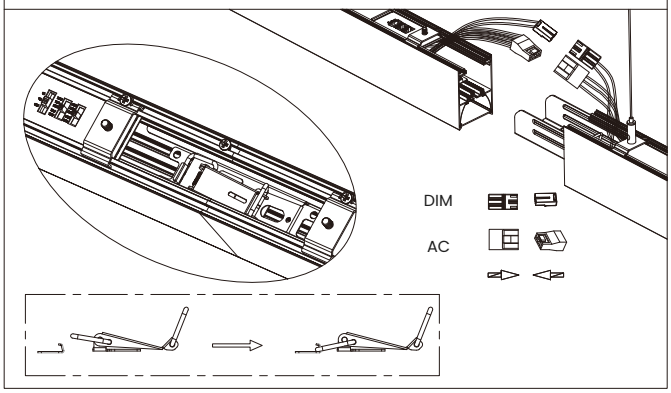
1. Remove the side cover and upper cover of both ends of the lamp to be spliced.



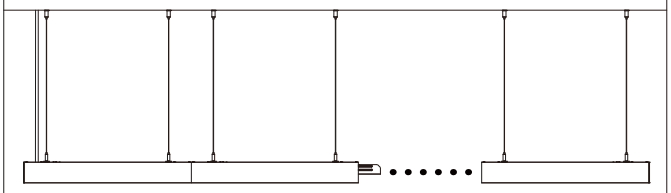
2. Insert the splicing component into the lamp and tighten the hook with the spring clip, as shown in the figure.



3. Connect the plug terminals and fasten the spring buckle tightly to the other hook buckle, as shown in the figure.



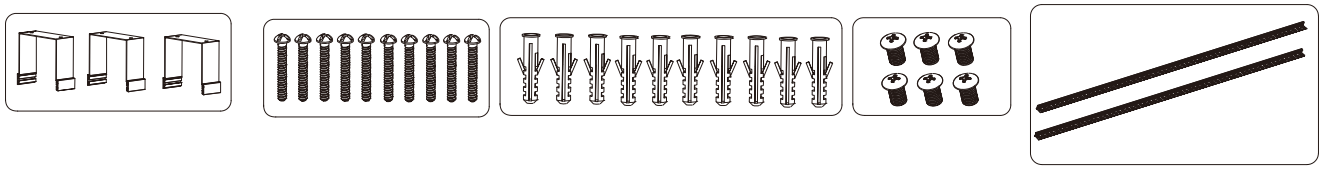
4. After assembling the required number of lamps, connect the input wires according to the lifting and wiring method, and complete the installation.



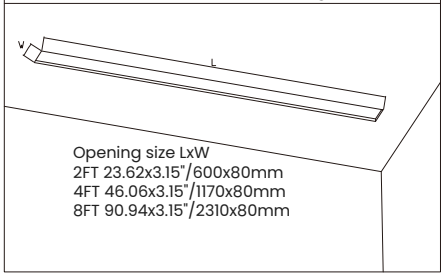
AC120-277V Splicing Qty(Max):
2FT-40W: 15PCS
4FT-50W: 12PCS
8FT-100W: 6PCS

Recessed Mounting for Mud Drywall Ceiling

Accessories List

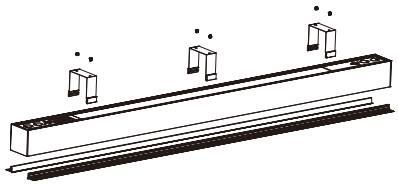


1. Reserve installation holes in the ceiling.

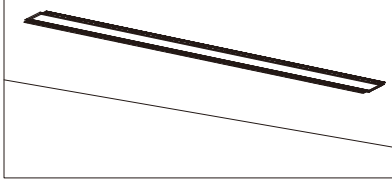


Opening size LxW
2FT 23.62x3.15"/600x80mm
4FT 46.06x3.15"/1170x80mm
8FT 90.94x3.15"/2310x80mm

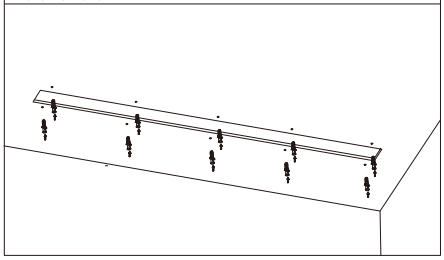
2. Fix the pre-buried lace on the light body.



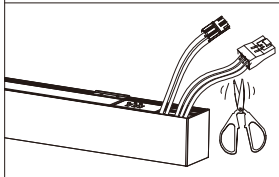
3. Put and press the fixture onto mounting surface, then mark the mounting positions from brackets, for step 4.



4. Drill the holes according to the marks and insert the anchors.



5. Cut off one end of the terminal as required for wiring.

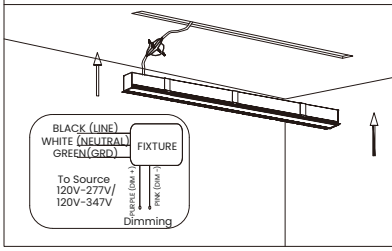


Three-position terminal:
BLACK (LINE)
WHITE (NEUTRAL)
GREEN(GRD)

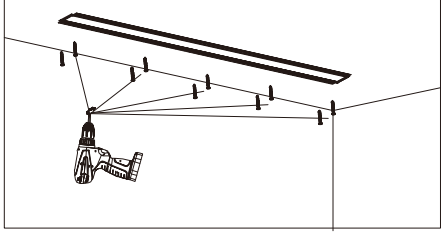
Two terminals:
PURPLE (DIM +)
PINK (DIM -)

1. After cutting off the connecting terminals,the lighting fixture will no longer be able to link with other fixtures through terminals.
2. After cutting the wires, please ensure proper protection and labeling, and avoid using them for secondary wiring.

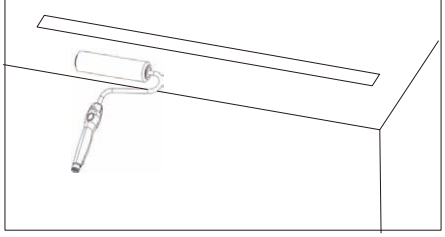
6. Turn off the power, then connect the wires using wire nuts.



7. Secure the fixture to the mounting surface with long screws.

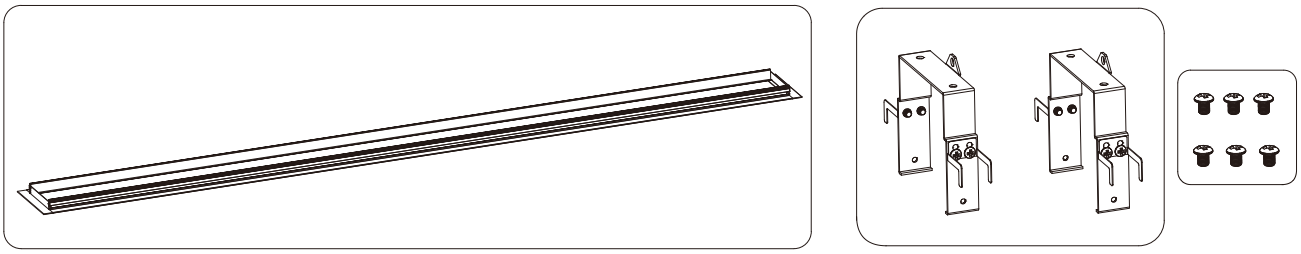


8. Brush coating covers embedded extension.

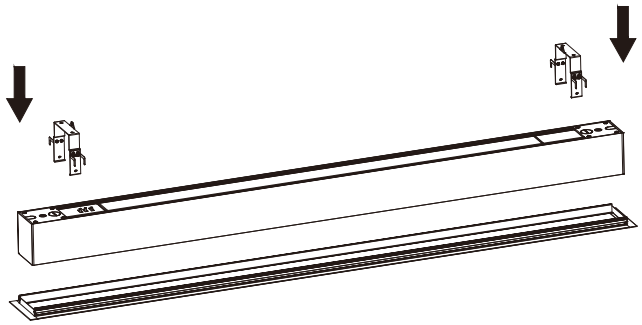


T-grid Recessed Mount Installation

Accessories List



1. Fix the fixture together with the recessed trimmed mounting rail and the fixture fixing bracket.



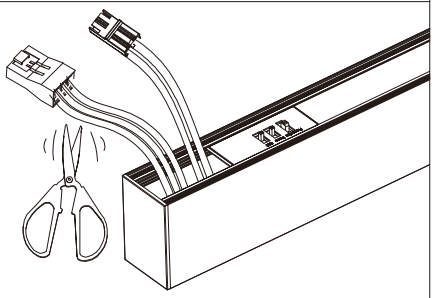
2. Cut off the corresponding terminals as required

Three-position terminal:

BLACK (LINE)
WHITE (NEUTRAL)
GREEN(GRD)

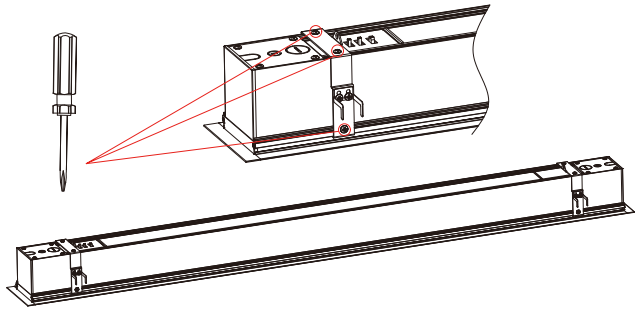
Two terminals:

PURPLE (DIM +)
PINK (DIM -)

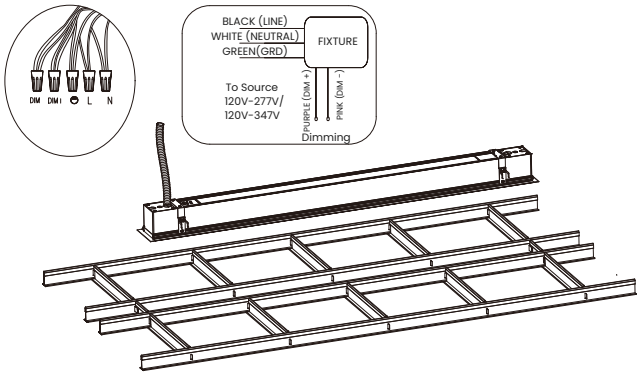


1. After cutting off the connecting terminals,the lighting fixture will no longer be able to link with other fixtures through terminals.
2. After cutting the wires, please ensure proper protection and labeling,and avoid using them for secondary wiring.

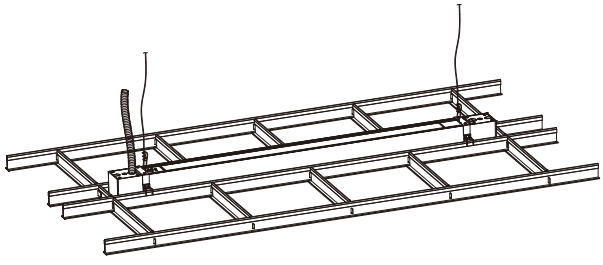
3. Use a screwdriver to lock the bracket in place.



4. Connect the AC cable of the luminaire to the mains power and place the luminaire into the ceiling grid.

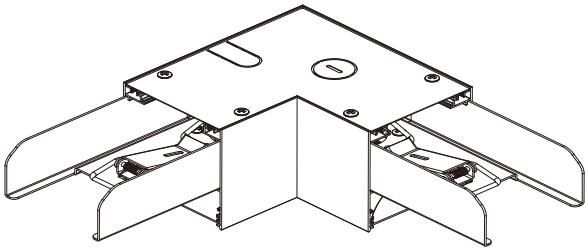


5. The installation is complete.

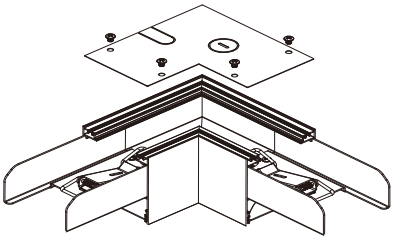


L-shaped Corner Installation Instructions

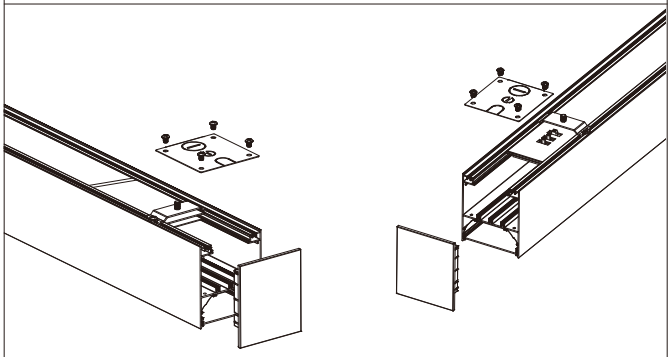
Accessories List



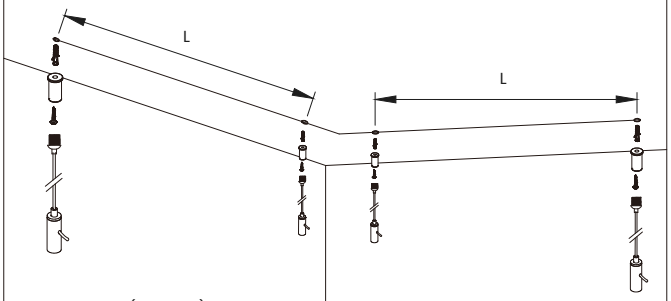
1. Use a screwdriver to remove the screws, and remove the L-shaped splicing piece and the rear cover plate .



2. Use a screwdriver to remove the screws, remove the side cover and upper cover of both ends of the lamp to be spliced.



3. Fix the hooks and suspend the lamp.

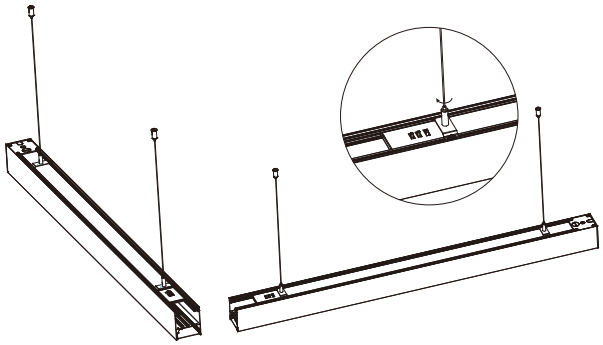


L=2FT: 17.32"(440mm)

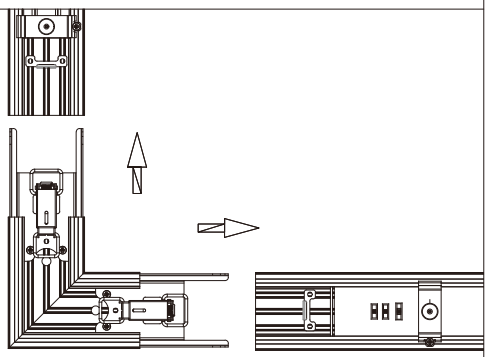
4FT: 41.34"(1050mm)

8FT: 89.37"(2270mm)

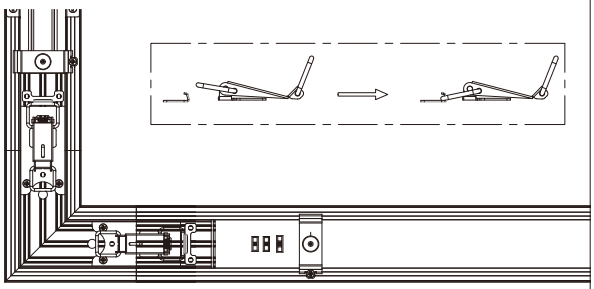
4. Use the rope to tighten the M5 screw thread to fix the lamp on the ceiling.



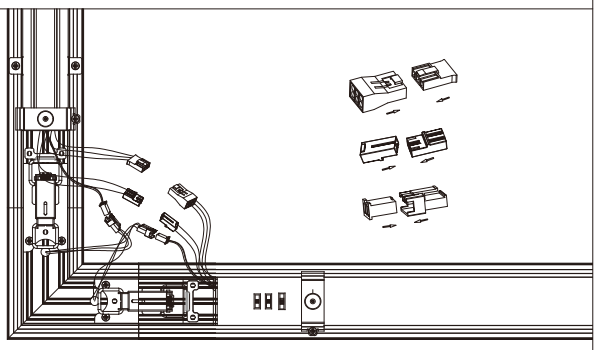
5. Insert the L-shaped splicing piece into the lamp to be spliced in turn.



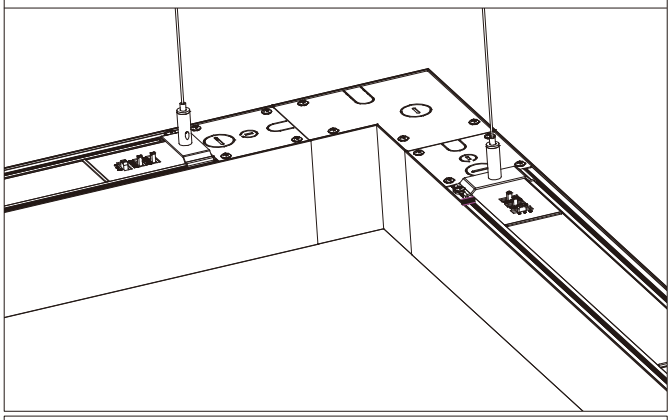
6. Attach the tension lock on the L-shaped splicing piece to the hook on the lamp, and then pull it tight. The lamp can be successfully spliced in this way.



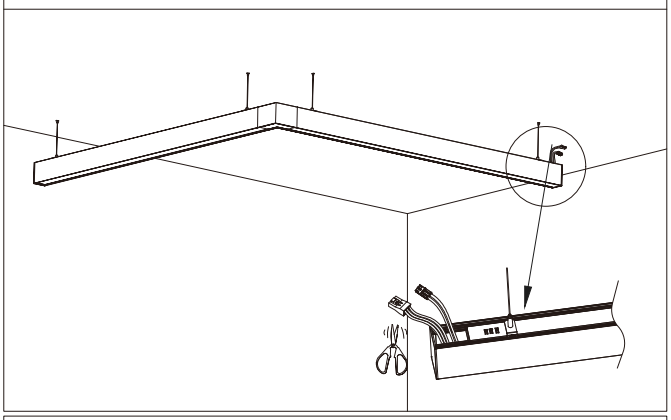
7. Connect the symmetrical terminals and insert the wires and terminals into the lamp interior.



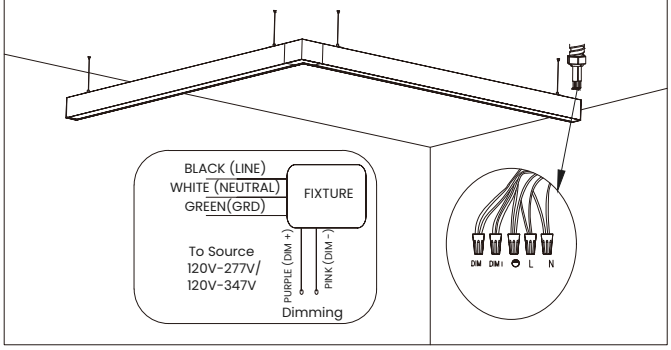
8. Lock the screws in the original position.



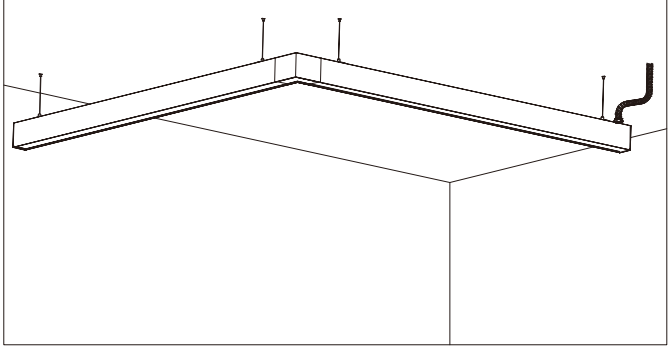
9. Cut off one end of the terminal as required for wiring.



10. Connect the wires as required.

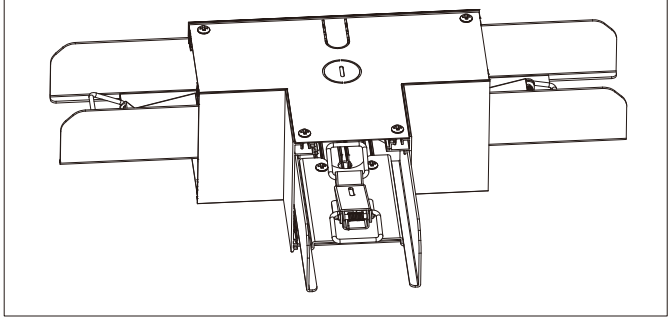


11. Installation is complete. Test the light.

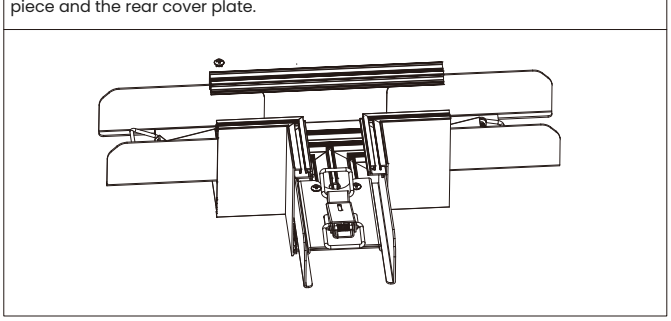


T-shaped Corner Installation Instructions

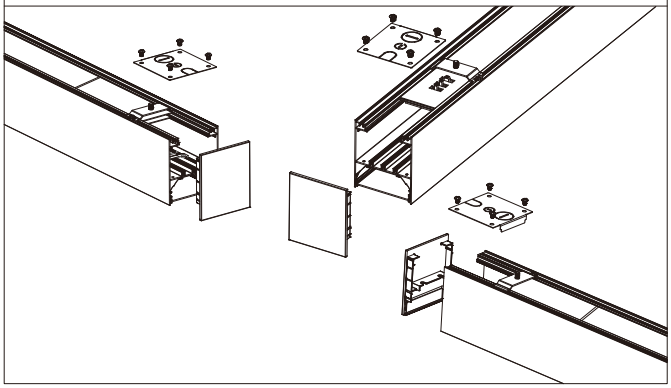
Accessories List



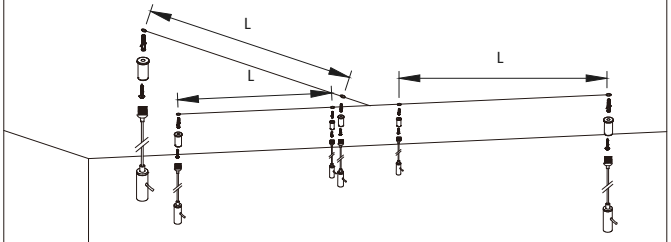
1. Use a screwdriver to remove the screws, and remove the T-shaped splicing piece and the rear cover plate.



2. Use a screwdriver to remove the screws, remove the side cover and upper cover of both ends of the lamp to be spliced.



3. Fix the hooks and suspend the lamp.

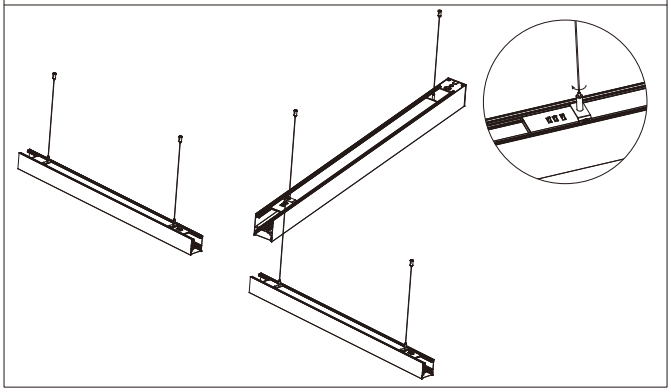


L=2FT: 17.32"(440mm)

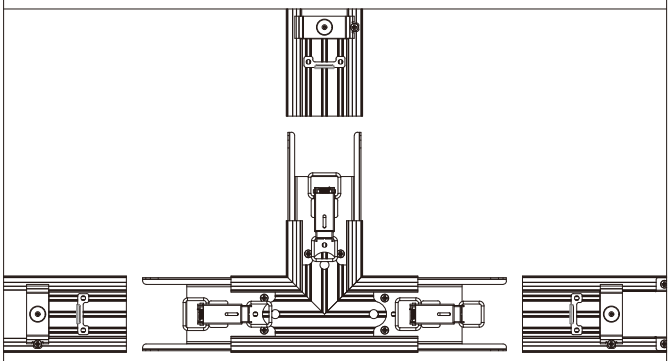
4FT: 41.34"(1050mm)

8FT: 89.37"(2270mm)

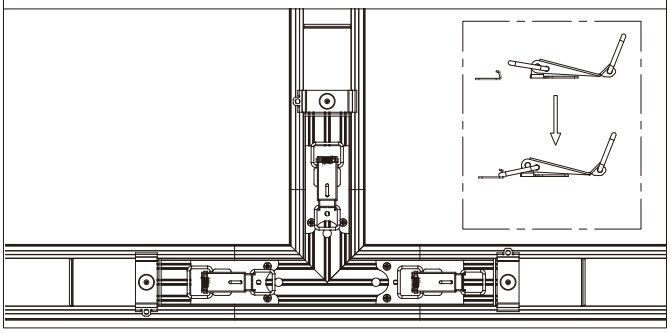
4. Use the rope to tighten the M5 screw thread to fix the lamp on the ceiling.



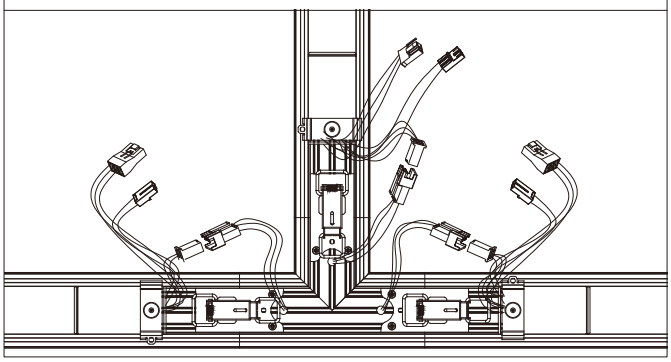
5. Insert the T-shaped splicing piece into the lamp to be spliced in turn.



6. Attach the tension lock on the T-shaped splicing piece to the hook on the lamp, and then pull it tight. The lamp can be successfully spliced in this way.



7. Connect the symmetrical terminals and insert the wires and terminals into the lamp interior.



8. The lamps that need to be spliced should have the corresponding wiring terminals disconnected as per the requirements.

Three-position terminal:

BLACK (LINE)

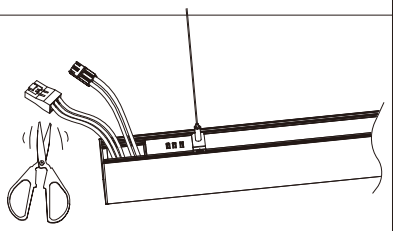
WHITE (NEUTRAL)

GREEN(GRD)

Two terminals:

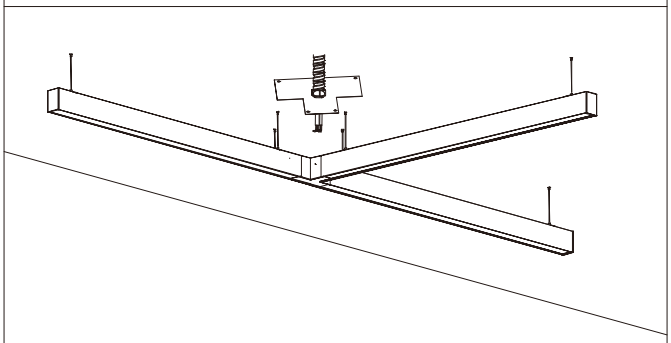
PURPLE (DIM +)

PINK (DIM -)

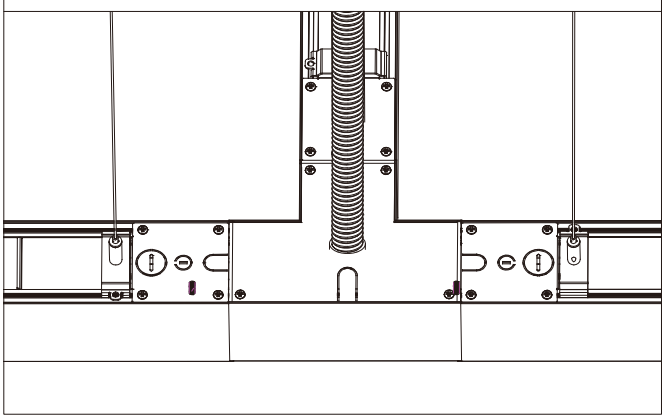


1. After cutting off the connecting terminals,the lighting fixture will no longer be able to link with other fixtures through terminals.
2. After cutting the wires, please ensure proper protection and labeling,and avoid using them for secondary wiring.

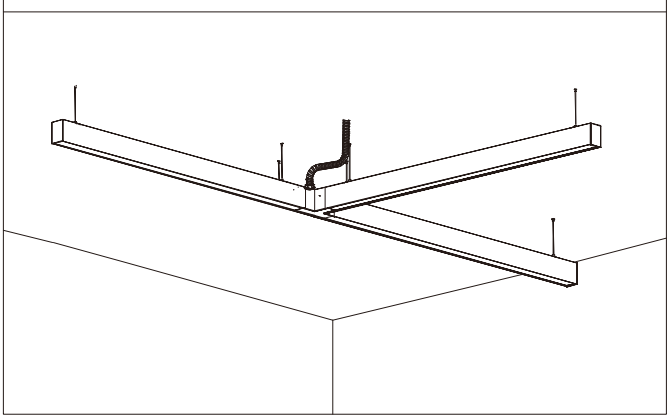
9. Insert the T-shaped splicing piece into the lamp to be spliced in turn.

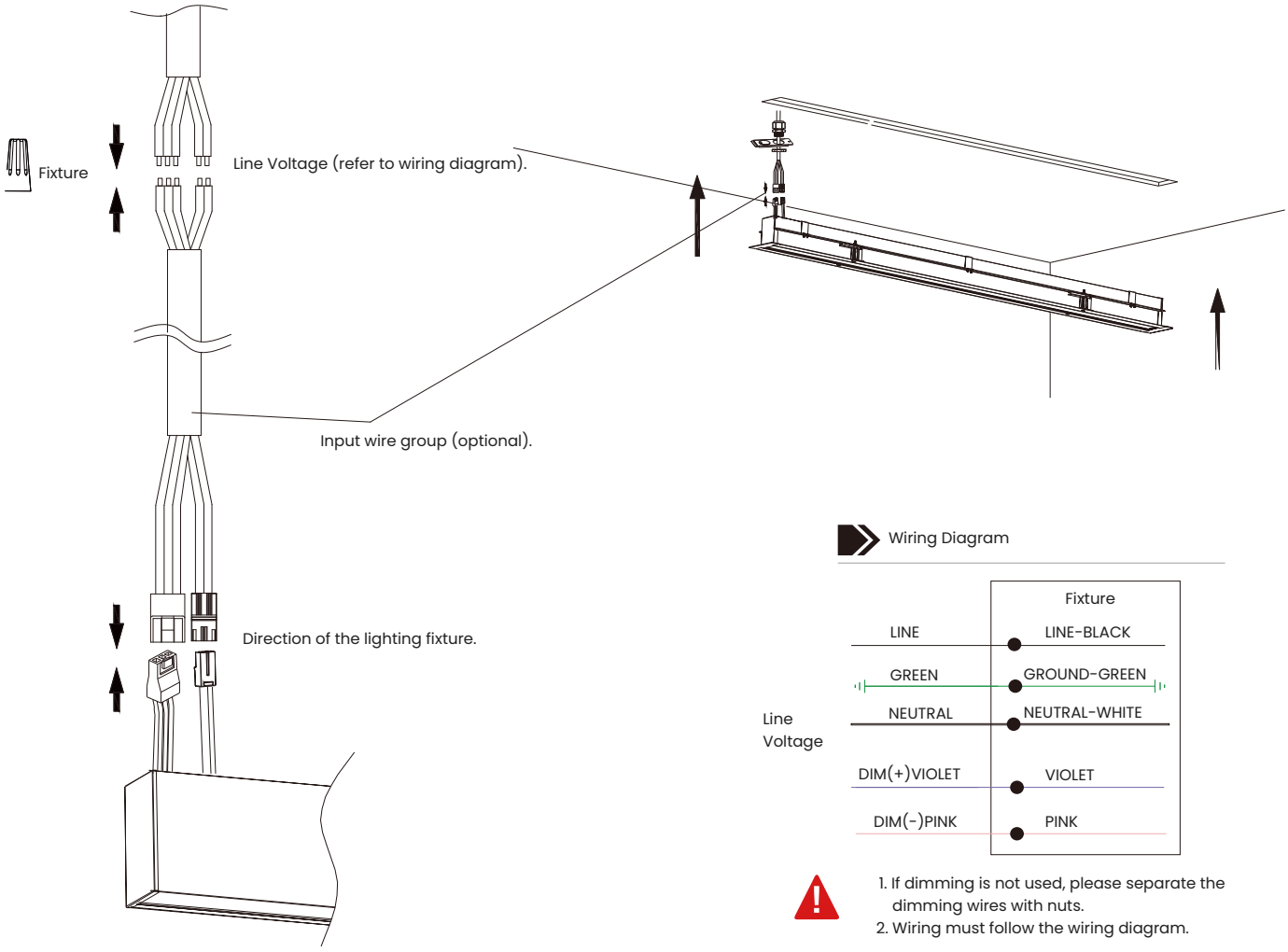


10. Lock the screws in the original position.



11. Installation is complete. Test the light.





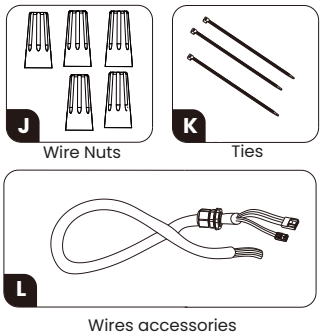
Three terminals: neutral wire, live wire, ground wire Two terminals: DIM+ (purple), DIM- (pink)

Wiring Diagram

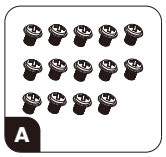
1. If dimming is not used, please separate the dimming wires with nuts.
2. Wiring must follow the wiring diagram.
3. Reminder: Disconnect the power supply before installation.

Wiring Diagram B

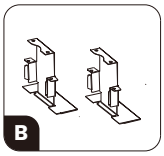
Driver's wire package (optional)



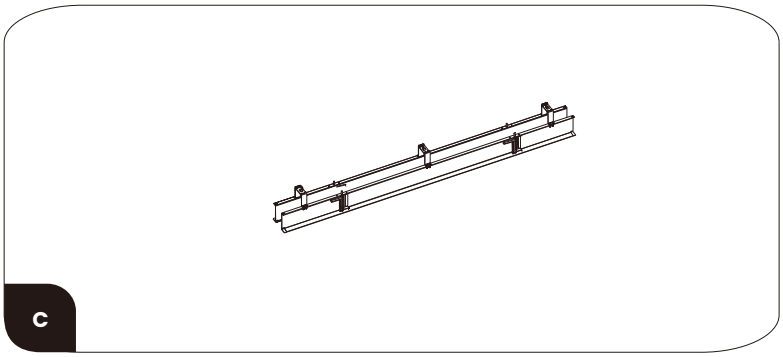
1 2FT Embedded installation accessories



Screws

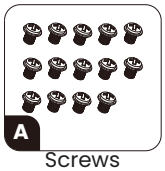


Embedded Side Cover

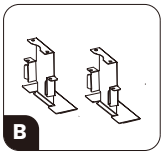


Embedded Mounting Bracket

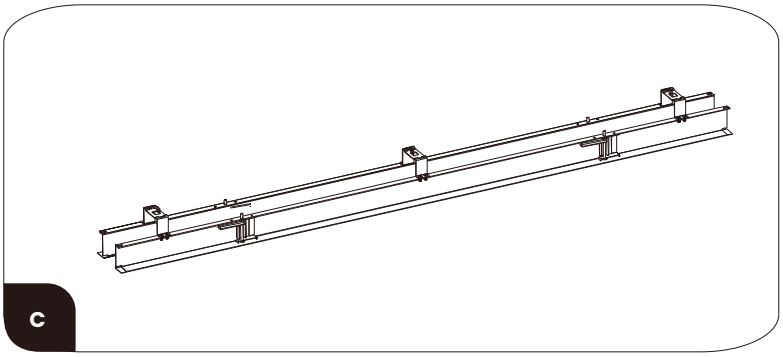
2 4FT Embedded installation accessories



Screws

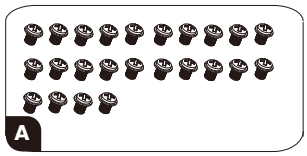


Embedded Side Cover

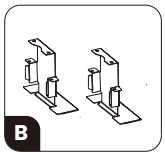


Embedded Mounting Bracket

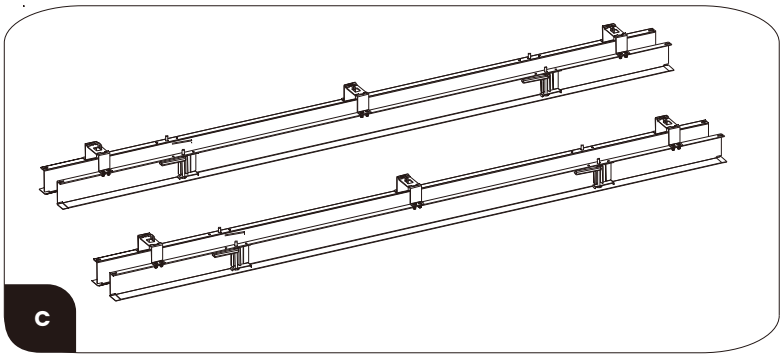
3 8FT Embedded installation accessories



Screws



Embedded Side Cover

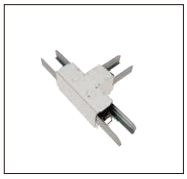


Embedded Mounting Bracket

ACCESSORIES


I joiner


L joiner

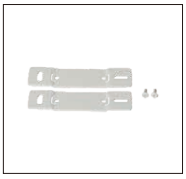

T joiner

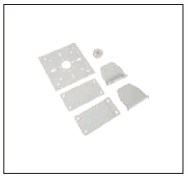

X joiner


60° V joiner


120° V joiner


Y joiner


Surface-mounted Kits


Wall-mounted Kits 1


Wall-mounted Kits 2


Roll-out Lens


Assembled T-Grid Clips


Conduit-mounted Kits


Aircraft Cable


Emergency Driver


Canopy (for Sensor)


End Cap with Sensor


LSA-DWC-CNPY-BL


LSA-DWC-CNPY-WH


Recessed Mounting Kits

ORDER INFORMATION

LSA-YY-YY-YY-YY

1 2 3 4 5 6 7 8 9

1 LSA Series Up/Down Linear Light

2 Length

2FT	2 Foot
4FT	4 Foot
8FT	8 Foot

3 Wattage

40W	40W/30W/25W/20W/15W
50W	50W/40W/35W/30W/25W
100W	100W/80W/70W/60W/50W

4 Color Temperature

35K	3500K
40K	4000K
50K	5000K
57K	5700K
65K	6500K

5 Watt & CCT Selectable

(Blank)	Single CCT & Watt
TCP	Tunable Watt & CCT
TC	Tunable CCT
TP	Tunable Watt

6 Voltage

(Blank)	120-277V

7 EM Back-up

(Blank)	Without EM Back-up
EM	With EM Back-up

8 Optics

(Blank)	90°

9 Control

(Blank)	No Socket
S	Sensor Socket
C	Control Module

WARRANTY PERIOD
5 YEARS WARRANTY

WARRANTY COVERAGE
LED LIGHT SOURCE, DRIVER

24h
AFTER-SALES SERVICE COMMITMENT
24H RESPONSE

72h
AFTER-SALES SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT