LED Linear Light

## 3146 Continous Light (0-10V Dimming)

cULus · Warranty 5 years
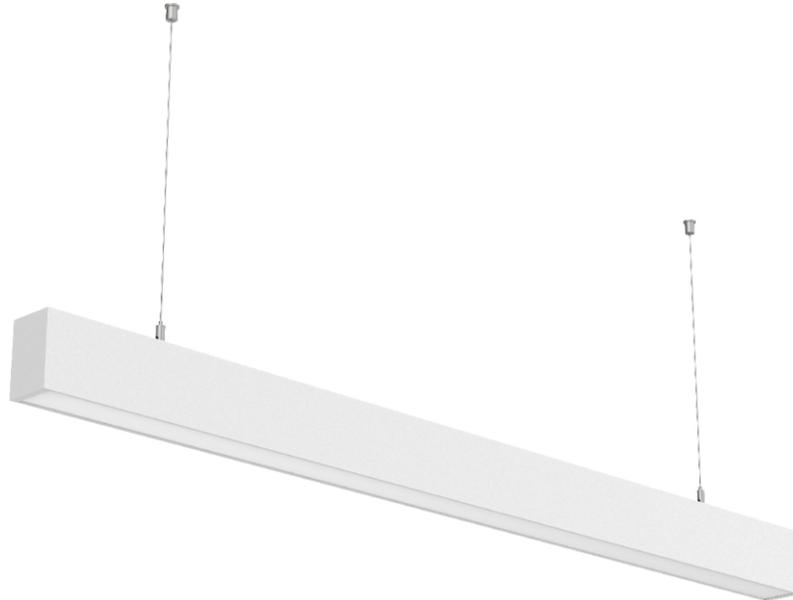
Description

The 3146 series can be combined to create larger continuous linear light systems. It is convenient to dismantle and maintain. Both the power supply and LED module can (PCB+LEDs) are easily replaceable. All connections are IP40 waterproof, it can be widely used in homes, schools, shopping malls, hotels, and other indoor public areas.

Applications

Can be widely used in homes , school , shopping mall , hotel and other indoor public places.
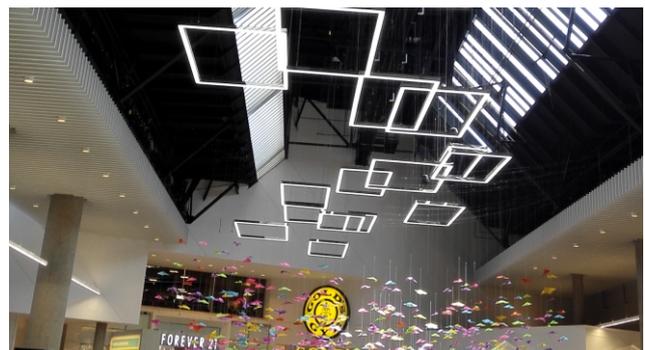
Features

1. The product can operate in single runs or continuous runs seamlessly. At 277V AC the max run is 3600W (350 ft). At 110V AC the max run is 1500W (150 ft).

2. The lamp and power supply are connected via a high voltage connector. It is very easy to install and disassemble, it is also safe and reliable.

3. Lamp body consists of a 6063 aluminum profile with finishes available in white, black, and silver.

White | grey | Black

4. 6063 aluminum profile has great heat distribution. And the PC diffuser has a high light efficiency.
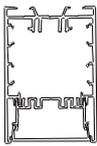
5.The end cap, power supply, and light emitting parts can be disassembled. It is easy to maintain.
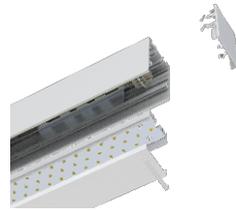
6. 2 installation methods: suspended and surface mounted.

Suspended installation

Surface Mount installation
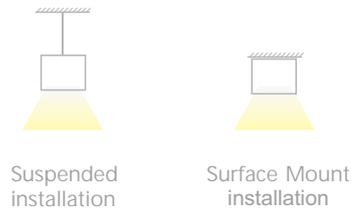
7. Multiple jointing can be acheived via "＋" "L" shape connecting light fixtures and accessories.
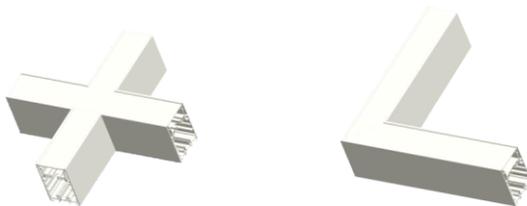
Lamp body

Model	CCT	LED Type	LED pcs	Lumen(lm) (±10%)	Power(W) (±10%)	Length (feet)	Voltage (V)	Dimming Optional	Pre-wired
3146-4-XX-50K	5000K		260	4320lm	40W	4			
3146-4-XX-40K	4000K	2835	260	4280lm	40W	4			5 wires, 14AWG copper core,L,N,G, DIM+,DIM-
3146-4-XX-30K	3000K		260	4120lm	40W	4	AC100-277V 50/60Hz	0-10V Dimming	
3146-8-XX-50K	5000K		462	7875lm	75W	8			
3146-8-XX-40K	4000K	2835	462	7725lm	75W	8			
3146-8-XX-30K	3000K		462	7650lm	75W	8			

"L" shape lamp

| Model	CCT	LED Type	LED pcs	Lumen(lm) (±10%)	Power(W) (±10%)	Length (feet)	Voltage (V)	Dimming Optional	Pre-wired
3146-L-XX-50K	5000K		216	4280lm	40W	2*2			5 wires, 14AWG copper core,L,N,G, DIM+,DIM-
3146-L-XX-40K	4000K	2835	216	4120lm	40W	2*2	AC100-277V 50/60Hz	0-10V Dimming	
3146-L-XX-30K	3000K		216	4080lm	40W	2*2			

"+" shape lamp

Model	CCT	LED Type	LED pcs	Lumen(lm) (±10%)	Power(W) (±10%)	Length (feet)	Voltage (V)	Dimming Optional	Pre-wired
3146-+-XX-50K	5000K		216	4400lm	40W	2*2			5 wires, 14AWG copper core,L,N,G, DIM+,DIM-
3146-+-XX-40K	4000K	2835	216	4320lm	40W	2*2	AC100-277V 50/60Hz	0-10V Dimming	
3146-+-XX-30K	3000K		216	4240lm	40W	2*2			

Beam angle	Energy saving	PF	CRI	IP	Life span	Lamp material
110°	90%	>0.95	≥80	IP40	50000hrs	Aluminum alloy+PC

Remark: 3500K and 4500K available for special order

Dimensions(Unit:mm/inch)

84mm/3.30" 56mm/2.20" 1203mm/47.36"
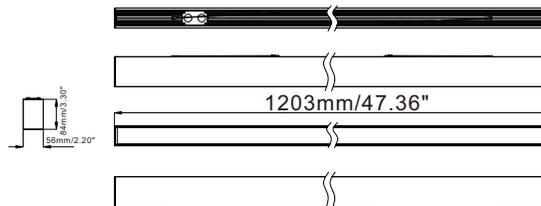
All dimension tolerance is± 1mm unless otherwise noted.

84mm/3.30" 56mm/2.20" 2400mm/94.48″

All dimension tolerance is± 2mm unless otherwise noted.

717.50mm
(29.28″)

717.50mm
(29.28″)

717.50mm
(29.28″)

600.00mm
(23.62″)

84.00mm
(3.30″)

84.00mm
(3.30″)
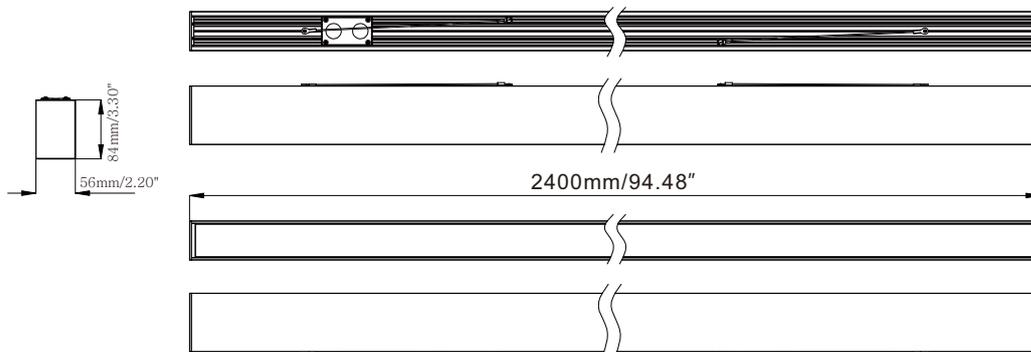
All dimension tolerance is±2mm unless otherwise noted.

Electrical Connection

GND(yellow and green)
DIM+(purple)
N(white)
DIM-(gray)
L(black)

AC100-277V

0-10V dimming（Remark:The max current consumption of our
driver to 0-10V dimmer is 2mA, each one)
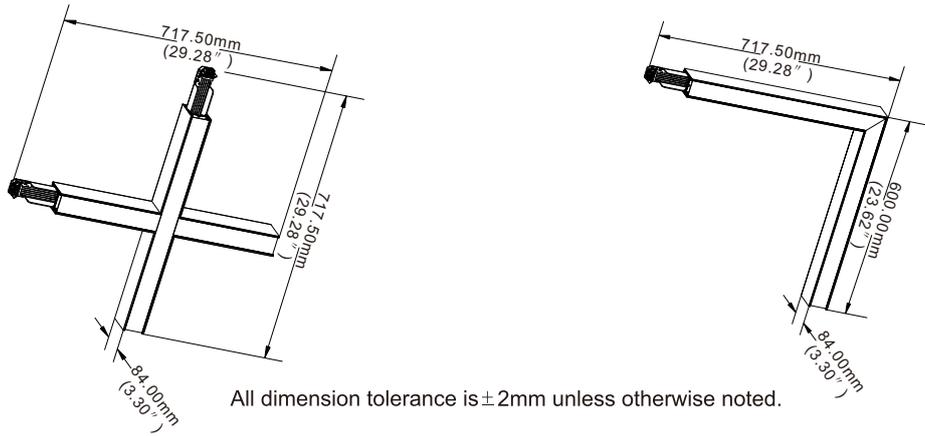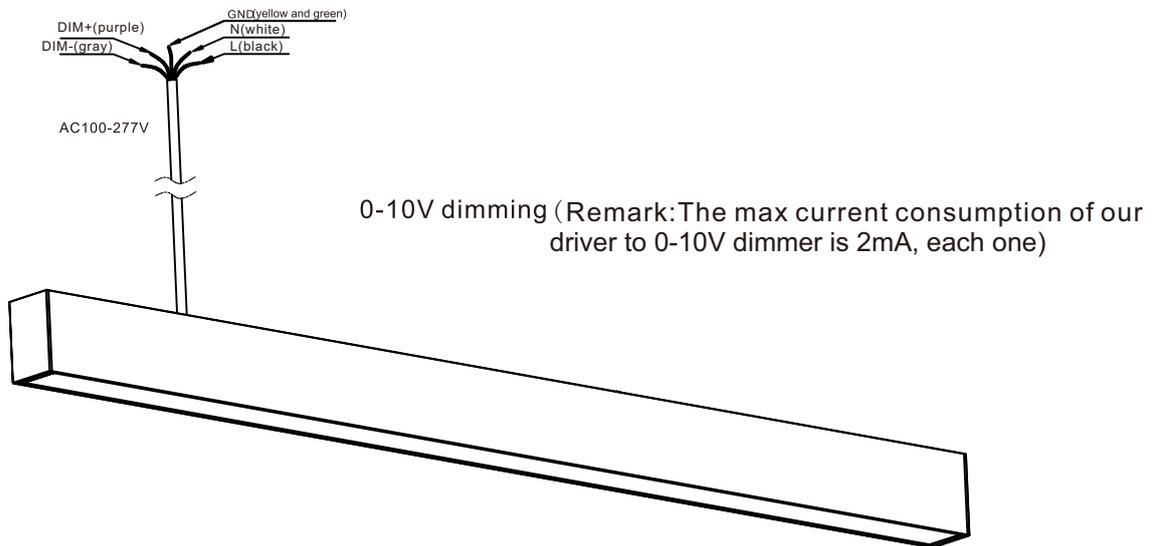
Installation instruction

How to make the first run?

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1. SL8456 lamp boby   1pc
2. screws   2pcs
3. inner connector   1pcs
4. inner end cap   2pcs
5. end cap without knockout 1pc
(for suspending installation)
Or End cap with knockout(for ceiling installation)
1pc,this end cap needs to be ordered separately
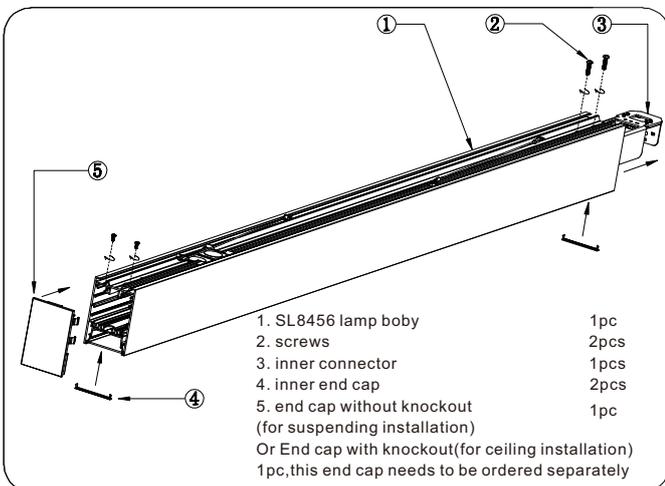
First, loose the 2 screws at the lamp end, and pull out
the inner connector from the lamp body, then fix the
inner connector by 2 screws again. After finishing the
wiring connection(see the steps on the continuous
connection),fix the end cap by screws and insert the
inner end caps at both sides.

Exploded drawing of the end run
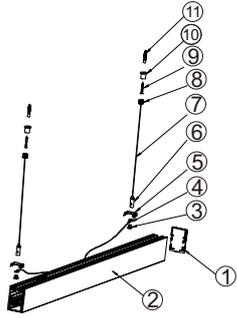
Lamp BOM
1. 3146 end cap   1PC
2. 3146 lamp   1PC
3. square head screw   2PCS
4. safety rope   2PCS
5. clamp   2PCS
6. wire lock   2PCS
7. suspendent rope   2PCS
8. fixing head 1   2PCS
9. 4X30PA screw   2PCS
10. fixing head 2   2PCS
11. rubber plug   2PCS

Installation diagram
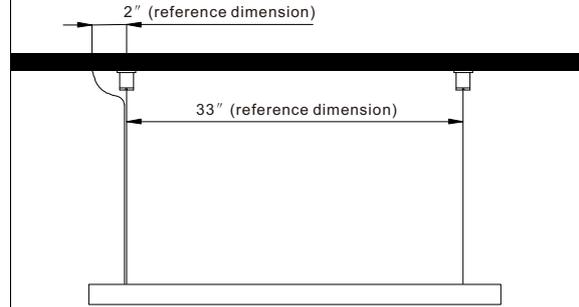
2″ (reference dimension)

33″ (reference dimension)
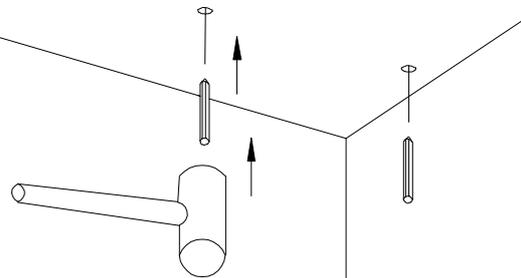
Drill hole

Drill hole according to corresponding dimension, and hammer the rubber plug into hole.

## Disassemble pendant rope and fasten fixing head of pendant rope
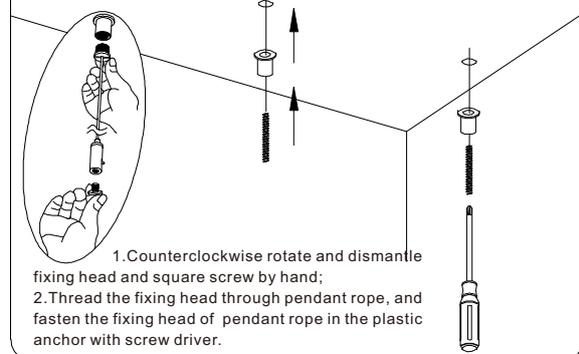
1.Counterclockwise rotate and dismantle fixing head and square screw by hand;
2.Thread the fixing head through pendant rope, and fasten the fixing head of pendant rope in the plastic anchor with screw driver.

Install the first run-disassemble lamp body
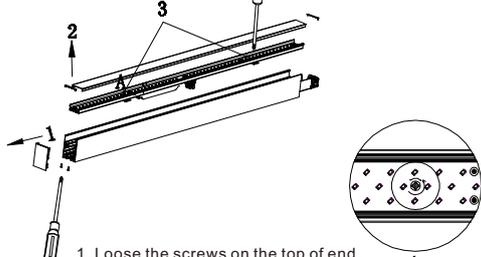
1. Loose the screws on the top of end cap with screwdriver;and pull the end cap out with hand;
2. Dismantle inner side cover and PC cover;
3. Rotate two screws of fixing card counter-clockwise by 90°, and dismantle cooling panel.

A

Install shell of the first run lamp body
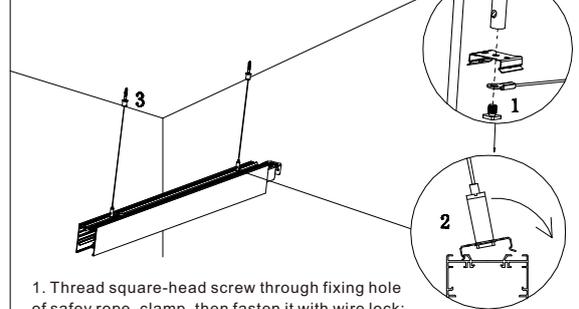
1. Thread square-head screw through fixing hole of safey rope, clamp, then fasten it with wire lock;
2. Snap the clamp into profile slot;
3. Tightening the lamp with fixing head 1 and fixing head 2.

Connect the input cable
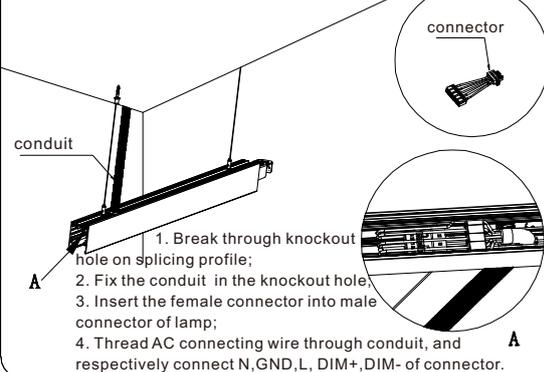
connector

conduit

1. Break through knockout hole on splicing profile;
2. Fix the conduit in the knockout hole;
3. Insert the female connector into male connector of lamp;
4. Thread AC connecting wire through conduit, and respectively connect N,GND,L, DIM+,DIM- of connector.

A

Install the first run lamp body
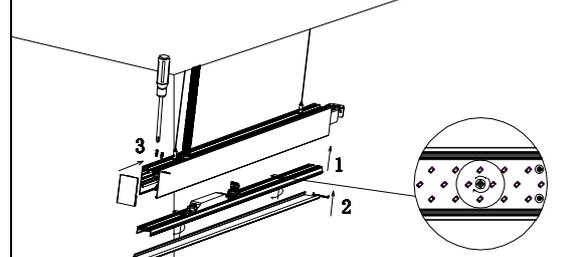
1. Install the cooling panel into shell of lamp body, and rotate screws of fixing card clockwise by 90°;
2. Press and mount the PC cover and inside cover plate on lamp;
3. Clip the end cap on the lamp,and fasten screws on the top of end cap.

How to make the middle run?
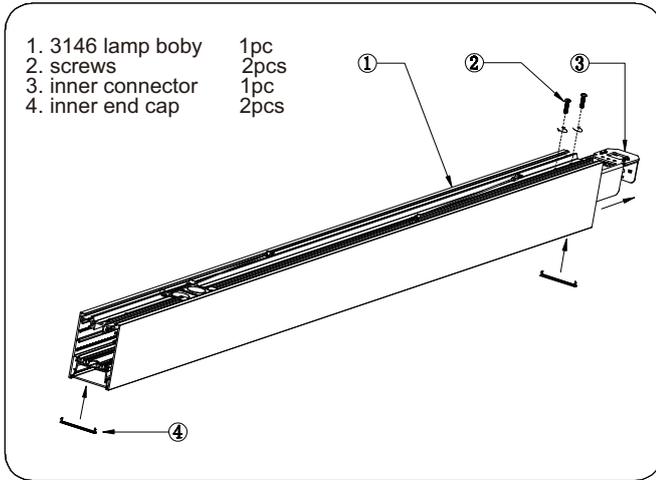
1. 3146 lamp boby   1pc
2. screws   2pcs
3. inner connector   1pc
4. inner end cap   2pcs

①   ②   ③

④

loose the 2 screws at the lamp end, and pull out the inner connector from the lamp body, then fix the inner connector by 2 screws again, insert the inner end caps at both sides.

How to make the last run?

1. 3146 lamp body   1pc
2. screws   2pcs
3. end caps   1pc
4. inner end caps   2 pcs

①   ②   ③

④
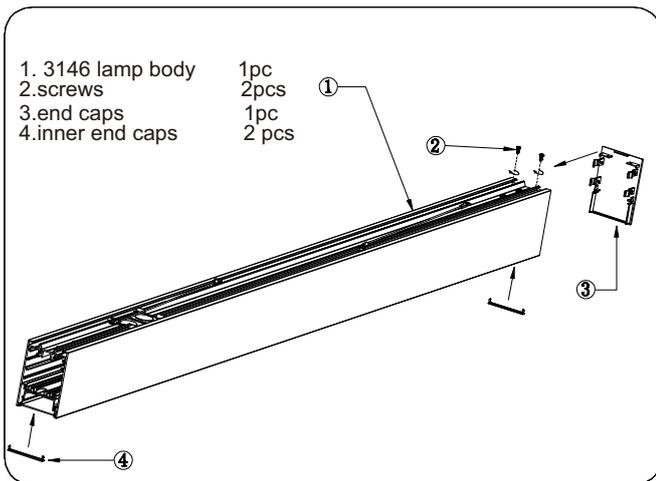
Just fix the end cap at the last end by screws, and insert the two inner end caps.

Suspended Installation Instructions
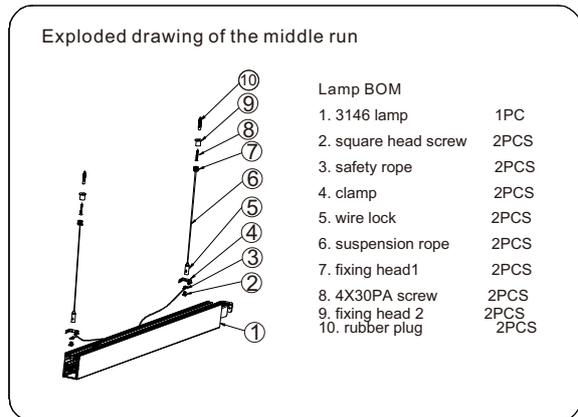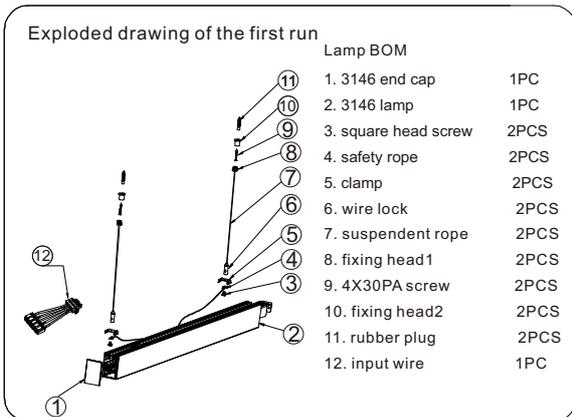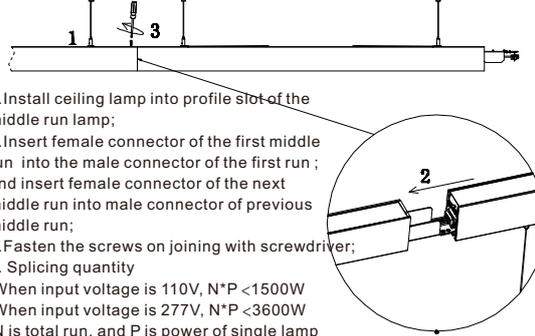
Exploded drawing of the first run

Lamp BOM

1. 3146 end cap   1PC
2. 3146 lamp   1PC
3. square head screw   2PCS
4. safety rope   2PCS
5. clamp   2PCS
6. wire lock   2PCS
7. suspendent rope   2PCS
8. fixing head1   2PCS
9. 4X30PA screw   2PCS
10. fixing head2   2PCS
11. rubber plug   2PCS
12. input wire   1PC

Exploded drawing of the middle run

Lamp BOM

1. 3146 lamp   1PC
2. square head screw   2PCS
3. safety rope   2PCS
4. clamp   2PCS
5. wire lock   2PCS
6. suspension rope   2PCS
7. fixing head1   2PCS
8. 4X30PA screw   2PCS
9. fixing head 2   2PCS
10. rubber plug   2PCS

Install lamp body of the middle run

1. Install ceiling lamp into profile slot of the middle run lamp;
2. Insert female connector of the first middle run into the male connector of the first run ; and insert female connector of the next middle run into male connector of previous middle run;
3. Fasten the screws on joining with screwdriver;
4. Splicing quantity
 When input voltage is 110V, N*P <1500W
 When input voltage is 277V, N*P <3600W
N is total run, and P is power of single lamp
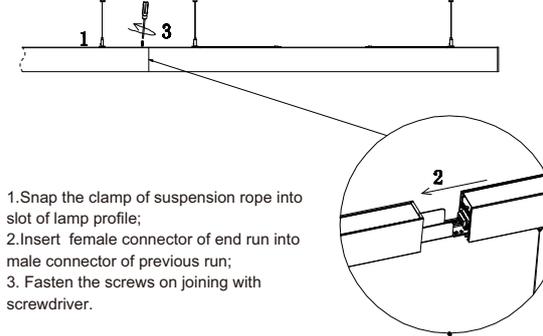
Install lampbody of the end run

1. Snap the clamp of suspension rope into slot of lamp profile;
2. Insert female connector of end run into male connector of previous run;
3. Fasten the screws on joining with screwdriver.

Installation drawing for "+"shape lamp

Installation drawing for "L" shape lamp
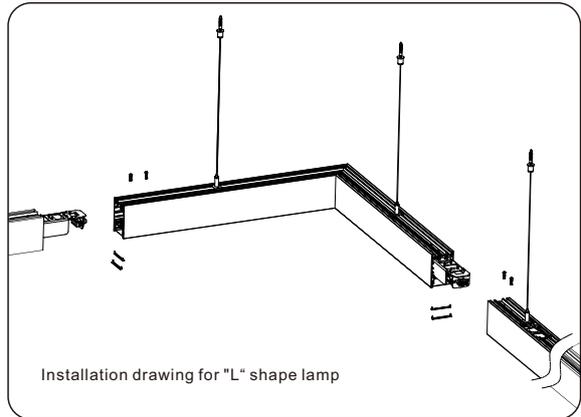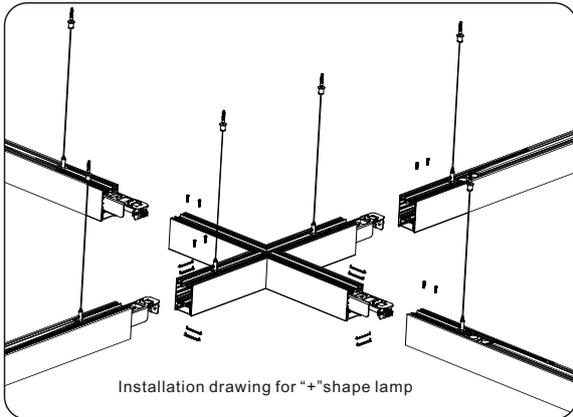
Ceiling Installation Instructions of SL8456

Exploded drawing of the first run
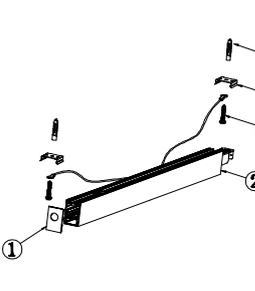
BOM

1. end cap of inlet wire	1pc
2. 3146 lamp	1pc
3. 4*25PA screw	2pcs
4. clamp	2pcs
5. rubber plug	2pcs
6. input wire	1pc

Exploded drawing of the middle run
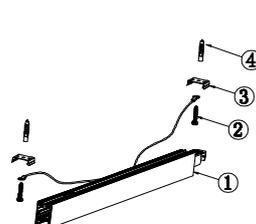
BOM

1.3146 lamp	1pc
2.4*25PA screw	2pcs
3.clamp	2pcs
4.rubber plug	2pcs

Exploded drawing of end run

BOM
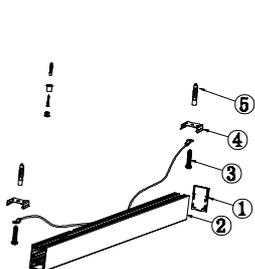
1. 3146 end cap	1pc
2. 3146 lamp	1pc
3. 4*25PA screw	2pcs
4. clamp	2pcs
5. rubber plug	2pcs

Installation diagram
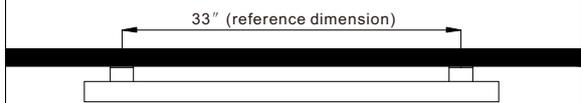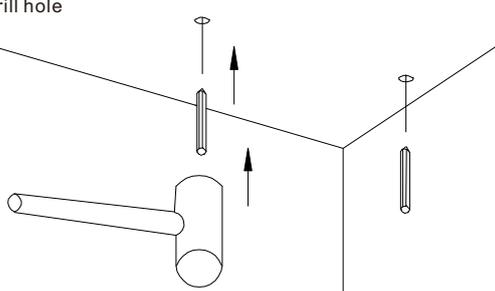
33″ (reference dimension)

Drill hole

Drill hole according to corresponding dimension, and hammer the rubber plug into hole

Installation of the first run-disassemble lamp body
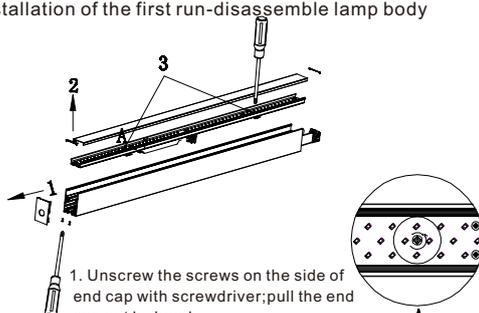
1. Unscrew the screws on the side of end cap with screwdriver;pull the end cap out by hand;
2. Dismantle inner side cover and PC cover;
3. Rotate two screws of fixing card counter-clockwise by 90°, and dismantle cooling panel.

Connect the input cable
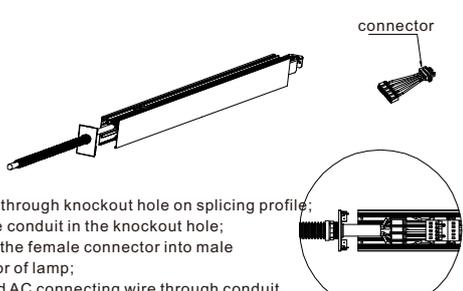
connector

1. Break through knockout hole on splicing profile;
2. Fix the conduit in the knockout hole;
3. Insert the female connector into male connector of lamp;
4. Thread AC connecting wire through conduit, and respectively connect N,GND,L, DIM+,DIM- of connector.nsion, and hammer the rubber plug into hole

Install the first run lamp body
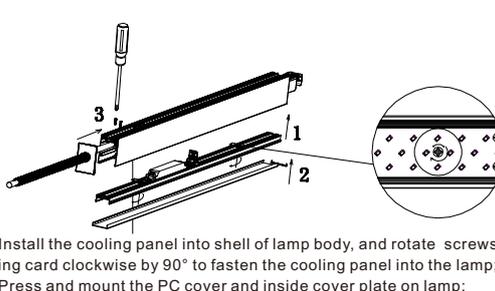
1. Install the cooling panel into shell of lamp body, and rotate screws of fixing card clockwise by 90° to fasten the cooling panel into the lamp;
2. Press and mount the PC cover and inside cover plate on lamp;
3. Clip the end cap on the lamp,and fasten screws on the top of end cap.

Install the clamp of the first run lamp body
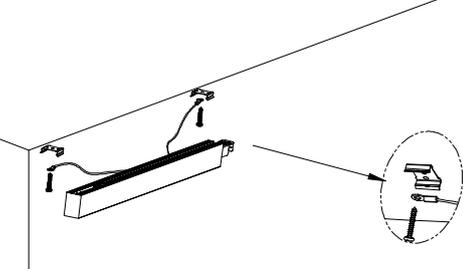
Thread the screw through fixing holes of safety rope and clamp, and fasten the screw with rubber plug in the ceiling

Install the first run lamp body
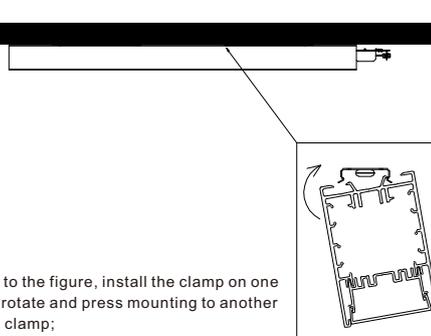
According to the figure, install the clamp on one side, then rotate and press mounting to another side of the clamp;

Install lamp body of the middle run
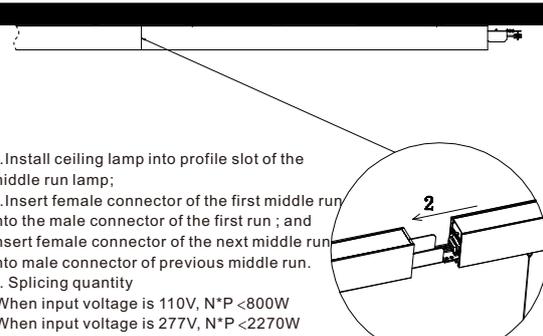
1.Install ceiling lamp into profile slot of the middle run lamp;
2.Insert female connector of the first middle run into the male connector of the first run ; and insert female connector of the next middle run into male connector of previous middle run.
3. Splicing quantity
 When input voltage is 110V, N*P <800W
 When input voltage is 277V, N*P <2270W
 N is total run, and P is power of single lamp
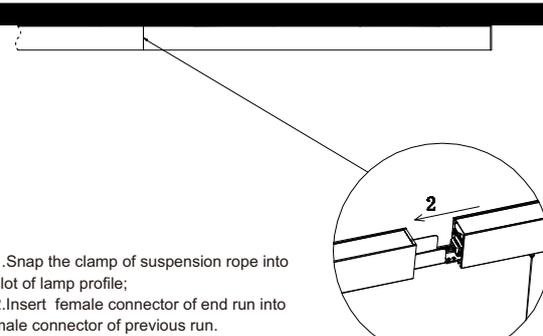
Install lampbody of the end run

1.Snap the clamp of suspension rope into slot of lamp profile;
2.Insert female connector of end run into male connector of previous run.

Product packaging information:

1.2m lamp:	2.4m lamp:
◉ net weight/pc:3.24kg ◉ gross weight/CTN:24.8kg ◉ inner size: 1274*130*106mm ◉ carton size: 1288*404*230mm ◉ 1pcs/inner box,6 inner boxes/ carton	◉ net weight/pc:6.5kg ◉ gross weight/CTN:33kg ◉ inner size: 2448*133*106mm ◉ carton size: 2462*413*230mm ◉ 1pcs/inner box,4 inner boxes/ carton
"L" lamp	"+" lamp:
◉ net weight/pc:3.294kg ◉ gross weight/CTN:16.631kg ◉ inner size: 735*105*683mm ◉ carton size: 750*225*701mm ◉ 2pcs/inner box,2 inner boxes/ carton	◉ net weight/pc:3.667kg ◉ gross weight/CTN:9.818kg ◉ inner size: 632*105*566mm ◉ carton size: 647*225*584mm ◉ 1pcs/inner box,2 inner boxes/ carton

⚠ Notice

1. Please read the specification first, to make sure the service environment matches the condition in the specification before using.

2. Please confirm the input voltage, frequency before using.

3. The lamp must be installed by professional personnel

4. If there is any damage on the power line or the shell of the product, it should be taken as defective product and do not use it.;

5. Dangerous high voltage, Non-professionals are not allowed to maintain the products.

6. If the exterior flexible cable or wire is damaged, it must be exchanged by the supplier, its agent or other similar qualified personnel to avoid dangers.