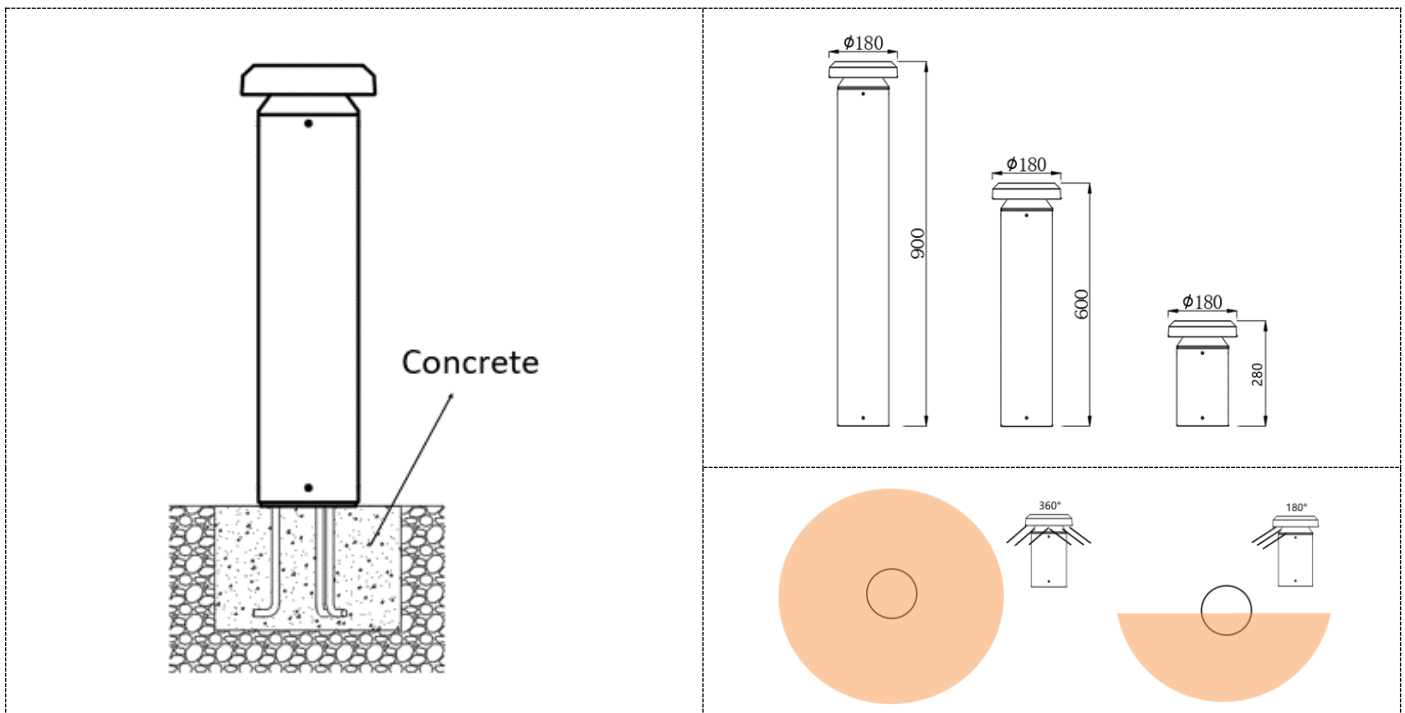




IMPORTANT NOTICE

Read the instructions carefully before installation and commissioning!
Leave the instructions for users/customers for future reference!

GENERAL: Upon receipt of the fixture, thoroughly inspect for any freight damage which should be brought to the attention of the delivery carrier. Compare the catalog description listed on the packing slip with the fixture label on the housing to assure you have received the correct material.

General Safety Information

SAFETY: This fixture must be wired in accordance with the National Electrical Code and applicable local codes and ordinances. Proper grounding is required to ensure personal safety. Carefully observe grounding procedure under installation section.

WARNING ! Risk of electric shock!

- Before carrying out maintenance and installation on the luminaire, disconnect from the mains supply and also from any other DALI control wiring, and ensure that all power is switched off.
- Do not operate luminaires with damaged.



ATTENTION!

- Do not open the luminaire head. In case of damage or a defective LED module, the entire luminaire must be returned to the factory.
- When installing, always observe the national installation and accident prevention regulations.

Intended use

- The luminaire is suitable for outdoor use.
- The luminaire is approved for vertical standing installation only.
- The luminaire should not be used in area of limited ventilation or inside high ambient temperature enclosures.

It should be stored in a dry location prior to installation. Do not expose lighting fixture to rain, dust or other environmental condition prior to installation. Do not install the fixture near combustible materials or locate next to airflow blocking surfaces.

WARNING ! Risk of Burn!

- Disconnect power and allow fixture to cool before servicing



WARNING ! Risk of Personal Injury!

- Fixture may become damaged and/or unstable if not installed properly



Note: Care must be taken not to set lighting fixture down on optical lenses or lift the fixture in the lens area

Installation Methods

STEP-1: Choosing the mounting location

Position the luminaire to avoid operation in direct sunlight or near other sources of heat.

High ambient temperature would decrease the life and efficiency of the control gear or LED module.

Notes on corrosion protection

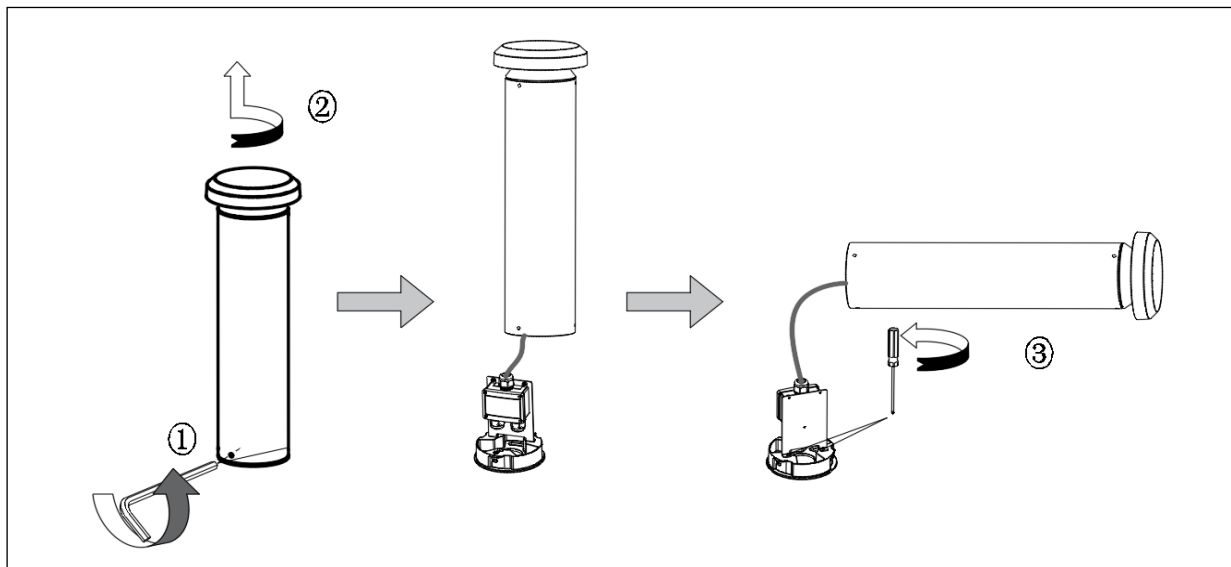
Ensure that the powder coating is not damaged during installation or maintenance work. Any damage, which becomes wet, can result in corrosion occurring. In aggressive environments, the installation and maintenance of all parts will require the appropriate protective measures. Chemicals damage the corrosion protection.

STEP-2: Prepare installation tools

Necessary tools used includes: 5/32inch Allen Wrench, 5/8inch Socket Wrench, Straight screwdriver 3mm, Cross screwdriver, Waterproof wire connector

STEP-3: Removing the mounting base plate from the luminaire complying with the Figure shown below

1. Undo the 3 Allen screws at the sides in the bottom of the luminaire with $\varnothing 4\text{mm}$ Allen wrench.
2. Rotate the base plate approx. 15° in anti-clockwise direction and take away the base plate from the luminaire.
3. Remove the IP66 junction box mounting plate from the base plate with six-angles screwdriver.

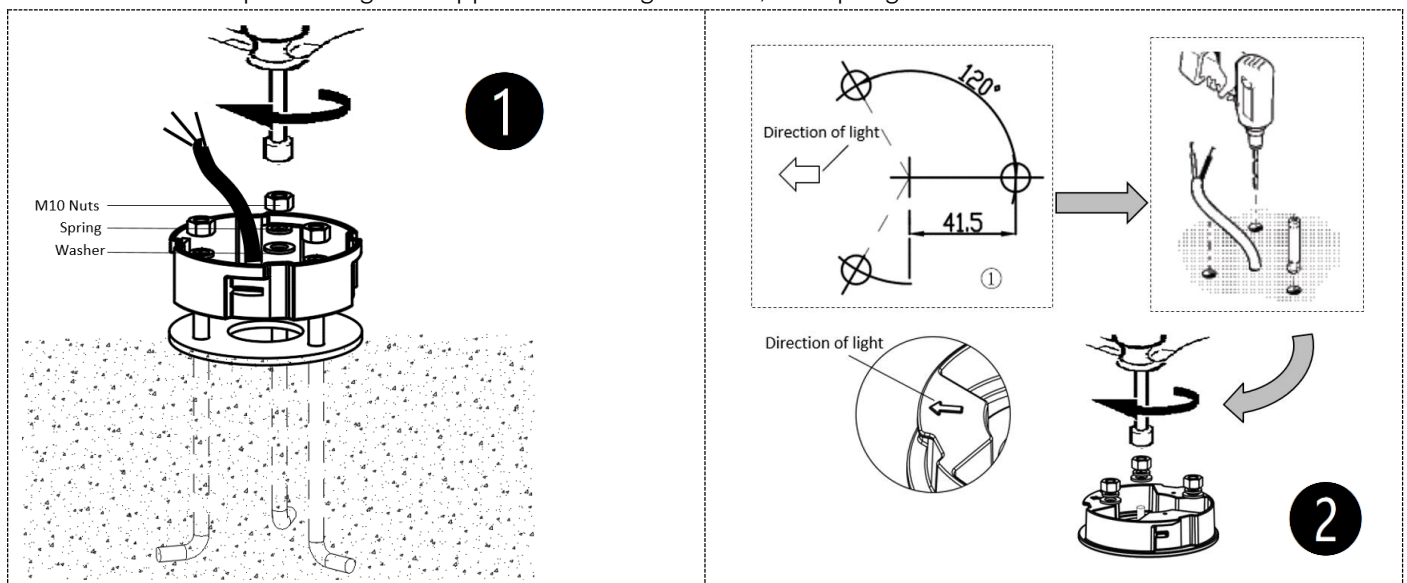


STEP-4: Installation Type-A with Concrete anchor *Figure 1*

1. Install the Concrete anchor with Anchor bolts.
2. Undo the 3 Allen screws at the sides.
3. Remove base plate from the luminaire and place over the cable.
4. Screw the base plate onto the concrete anchor using the supplied mounting washers, and spring washers.
5. Attention: The Arrow mark on the base plate must be positioned towards the lighting direction.

STEP-4: Installation Type-B without Concrete anchor *Figure 2*

1. Drilling 3 holes on the concrete mattress according to the drawing ① in Figure 2.
2. Install M10 stainless steel expansion anchor bolts (not supplied).
3. Undo the 3 Allen screws at the sides, and remove base plate from the luminaire and place over the cable.
4. Mount the base plate according to the holes drilled on the ground. Arrow mark on the base plate must be positioned towards the lighting direction.
5. Screw the base plate using the supplied mounting washers, and spring washers.



STEP-5: Electrical installation *Figure 3*

For 3-circuit installation: to avoid any damage to the control gear, the neutral conductor must never be connected or disconnected during operation.

Overvoltage protection

Evolve uses electronic control gear with overvoltage protection in accordance with DIN EN 61547.

If additional protection from spikes is required, e.g. when switching off inductive loads, separate overvoltage protection units should be installed.

Luminaire with DALI control gear

All cables, materials and devices used must be suitable for mains voltage, as the DALI signal is not transmitted using safety extra low voltage (SELV).

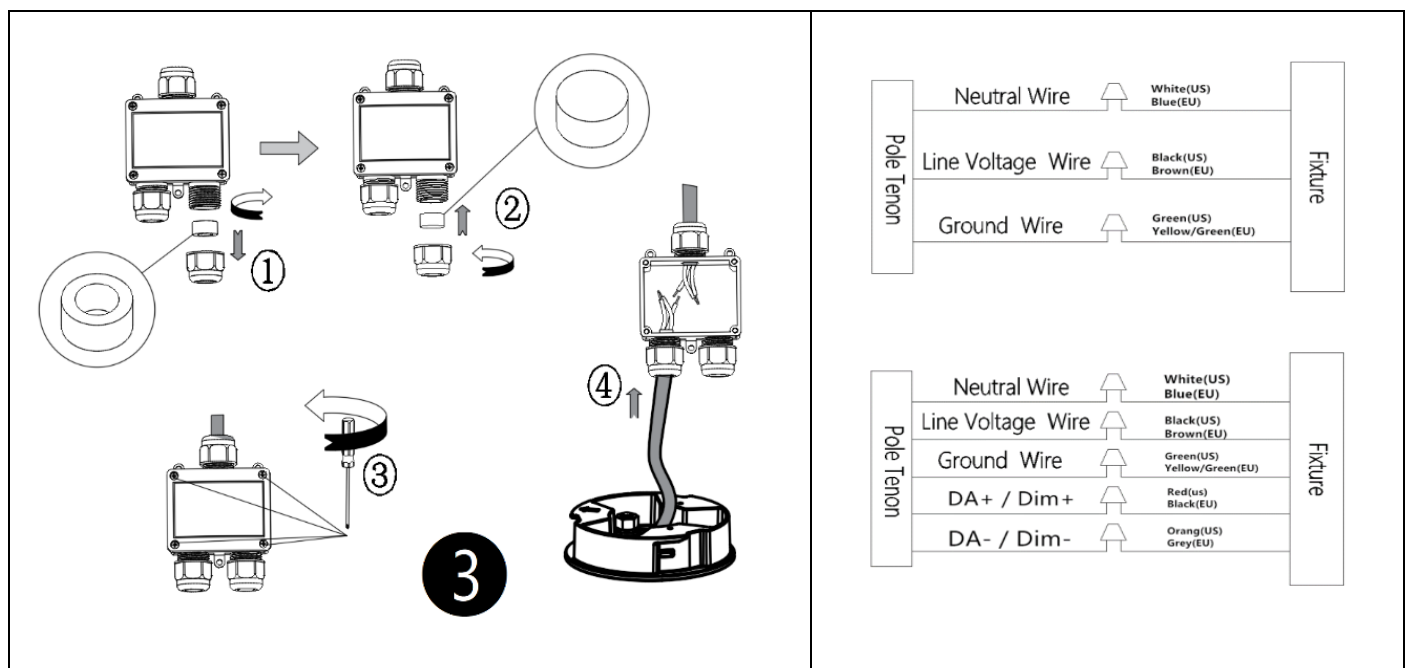
Electrical connection

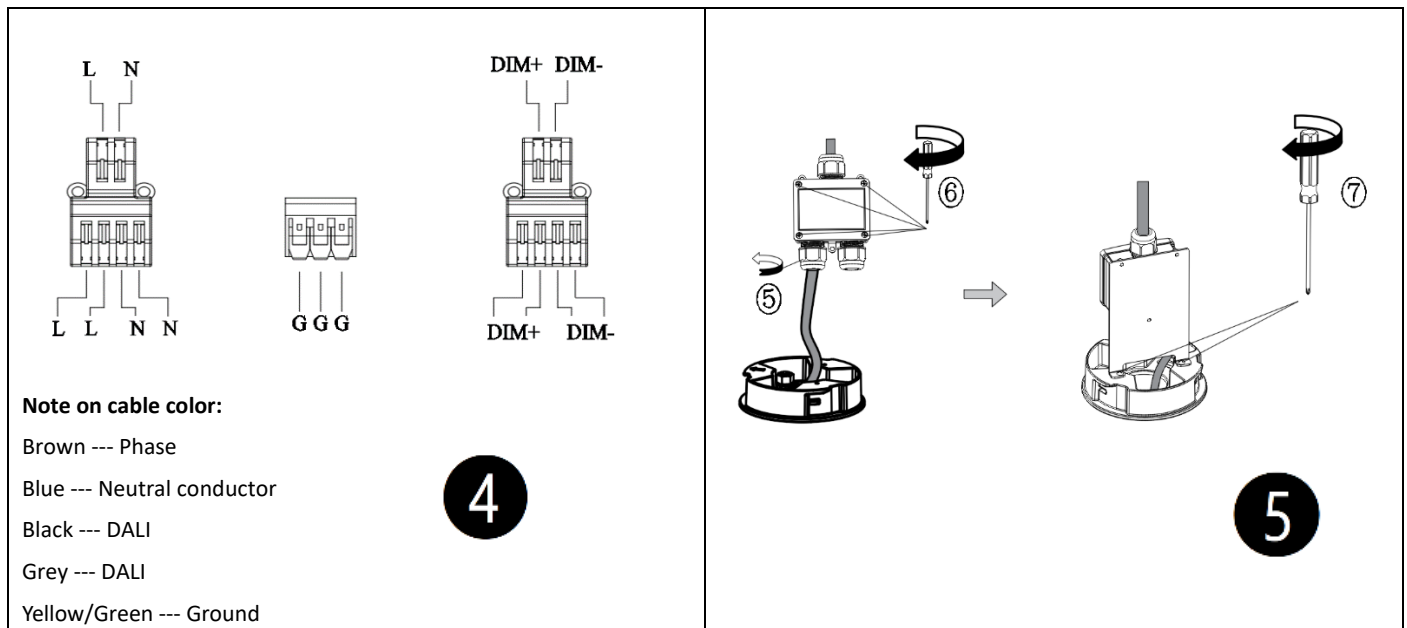
Note: Suitable for through-wiring (looping through) up to 16A.

Making the electrical connection using the wirings waterproof connectors (not supplied) complying with Wirings methods and indication. *Figure 4 and Figure 5*

Wiring processing

1. Undo the nut in the right side of the junction box, take away the hollow washer (Figure 3 ①) IMPORTANT NOTES
2. Install a Solid washer into the nut instead of the hollow washer and lock the nut (Figure 3 ②) IMPORTANT NOTES
3. Open the junction box with six-angles screwdriver (Figure 3 ③)
4. Power cable (input cable as well as the dimming cable) go through the nut in the left (Figure 3 ④)
5. Make wirings inside the junction accordingly (Figure 4) and lock the nuts
6. Close the junction box and mount it onto the plate where it stayed (Figure 5)





STEP-6: Final installation, mounting the Luminaire *Figure 6*

1. Find out the Arrow mark on the optical lens, adjust this Arrow to the same direction with the Arrow on base plate.
2. Put the Luminaire onto the base plate in correct direction carefully and Rotate it clockwise at 15°.
3. Fixed the 3 Allen screws (M8) on the sides of base plate.

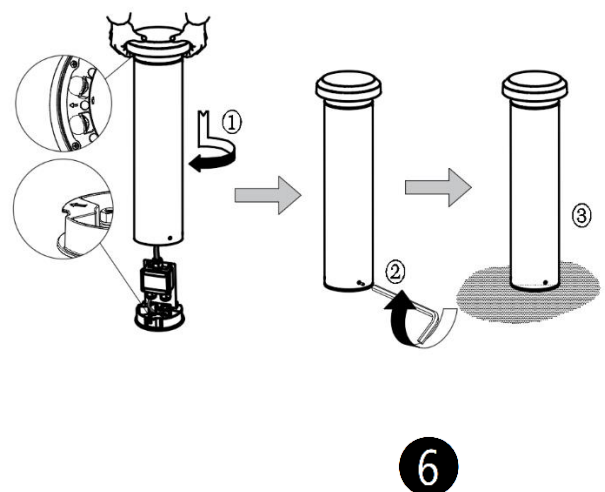
Note: Ensure correct alignment of the luminaire with 180° emission angle.

Cleaning

Always clean carefully using a soft cloth and a commercially available, ph-neutral, alcohol-free, non-abrasive cleaning agent.

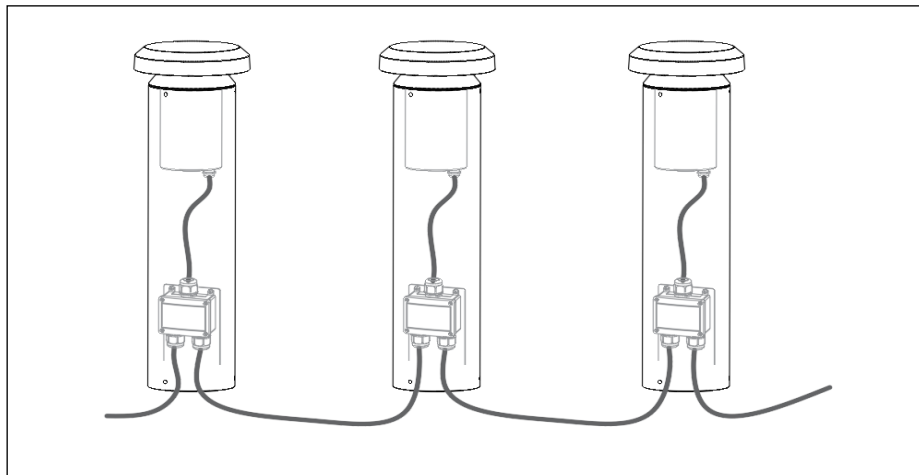
Disposal

In accordance with EU Directive WEEE (Waste Electrical and Electronic Equipment), luminaires must not be disposed of with other household waste. At the end of their life, luminaires must be taken to the appropriate local facility available for the disposal or recycling of electronic products.



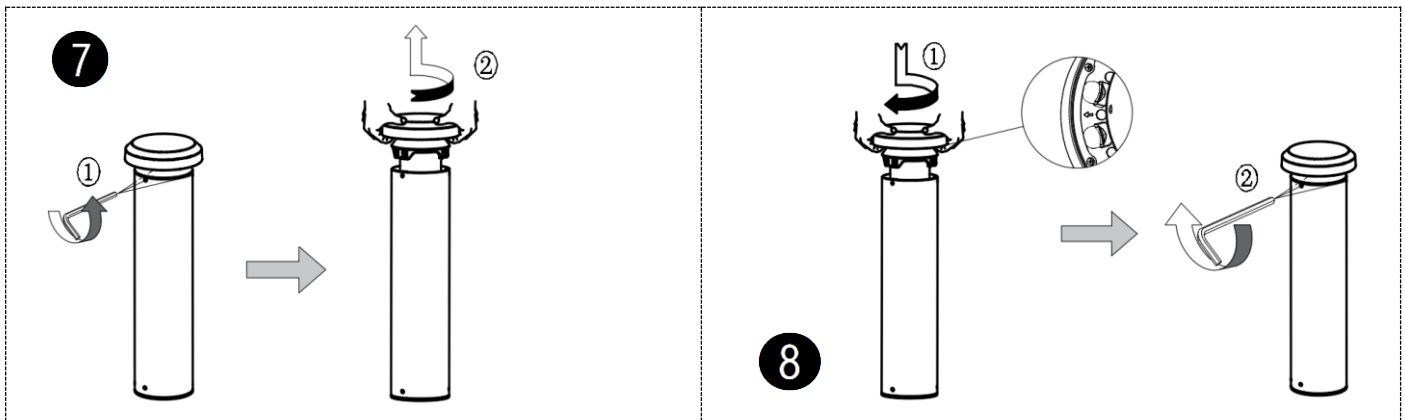
Additional notes

Luminaires can be connected in parallel if needed as shown below



Maintenance and or Replacing the LED module

1. Release the 3 Allen screws (M8) on the sides of LED module by rotating anti-clockwise 3-5 circles *Figure 7*
2. Hold the LED module carefully, and rotating it anti-clockwise at 15° to take off the LED module *Figure 7*
3. Find out the Arrow on the optical lens and Positioning it towards the lighting direction *Figure 8*
4. Put the LED module back to the Bollard tube and rotating it clockwise at 15° *Figure 8*
5. Fixed the 3 Allen screws (M8) on the sides of LED module *Figure 8*



LED Module connected wattage Max 36.0W

Luminaire connected wattage 40.0 W

Rated temperature $t_a = 25\text{ }^{\circ}\text{C}$

Ambient temperature $t_a \text{ max} = 50\text{ }^{\circ}\text{C}$

Safety indices

The installation and operation of this luminaire are subject to national safety regulations. Installation and commissioning may only be carried out by a qualified electrician. The manufacturer is then discharged from liability when damage is caused by improper use or installation. If any luminaire is subsequently modified, the persons responsible for the modification shall be considered as manufacturer