

## BoscoLighting Spot Lights Installation Instruction

### Introduction

Thank you for choosing BoscoLighting products.

This document aims to guide a qualified installer or electrician in installing of this product to ensure correct function and safety. Note by Law, certain electrical works must be completed by a licensed electrician. Each State maintains their own licensing system, for more information see [www.erac.gov.au/index.php?Itemid=516](http://www.erac.gov.au/index.php?Itemid=516).

### Warranty

Your BoscoLighting light fitting is covered by a 3 year warranty. Please retain proof of purchase or register your purchases by sending an email to [warranty@boscolighting.com.au](mailto:warranty@boscolighting.com.au) by attaching a copy of your purchase invoice, details of the end user (name, company, phone and address) and electricians company and electrical license number.

Warranty will be void if there is any damage due to improper installation, modification to the fitting except from the standard issued parts and features or used for purposes other than the intended purpose and safety precautions and warnings had been disregarded, site issues like voltage surges, vandalism or rodent damage.

### Safety Instructions

- First and foremost, do not install or operate the fitting if it appears to be damaged in any way. Please inform your local supplier or send an email to [warranty@boscolighting.com.au](mailto:warranty@boscolighting.com.au) as stated on the warranty section of this document.
- Electrical connections and wirings must be carried out by a licensed electrician in conformance with the electrical standards.
- BoscoLighting spotlights are all rated with Ingress Protection 65 (IP65) which are weatherproof and designed for outdoor applications. However, note that the lights are not designed to be installed on hazardous, corrosive, flammable areas or to be submerged underwater.
- BoscoLighting spotlights are flexible which can be installed on a soft ground using spike or surface mounted using a mounting bracket. Please make sure that there is an adequate support to the area where the fitting will be installed and must be careful not to be placed in areas where people might be stumbled upon.
- BoscoLighting spotlights are available in high or low operating voltages (AC240V or DC12/24V), it is however usually better to use low voltage DC 24V for safety and voltage drop prevention.
- It may be permissible under local laws to install DC 12/24V lights yourself, however they do require a power supply adaptor (driver) which may require licensed electrician installation. Low voltage operation requires thicker cabling to prevent voltage drop and so licensed electricians may be required to determine wiring requirements of your location.
- Incorrect wiring, including incorrect polarity, incorrect gauge wires resulting in voltage drop, faulty connections or other excessive resistance being placed on the driver will result in reduced operating life of the product and will also invalidate our warranty. If in any

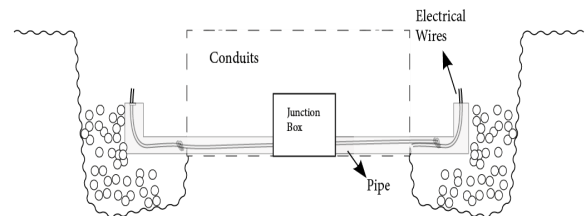
doubt, get a licensed electrician even for low or extra low voltage lighting.

- AC240V models require licensed electrician installation.
- To power the spike light, please check current guidelines for wiring requirements. We also recommend proper insulation of cables and connections for DC24V fittings to ensure longer lifetimes for light fittings and drivers.
- Please also refer to the voltage drop and wire sizing chart since it is important to choose the correct wire size for any specific application for it is dependent with the voltage drop, resistance, amperage rating and environment. Also use direct burial cables and waterproof connectors for wiring which are rated for outdoor/underground use.
- Create a wiring layout/plan for the installation on the area where you will be placing the inground lights and create a map on where you installed the wiring for reference on your future projects.
- For AC240V installation, please ensure trench meets depth requirements as stipulated by electrical codes and indicator plastic tape is flat and placed above conduit. Ensure conduit is adequately sealed and gravel surrounds conduit for proper force dispersion and to allow ground movement.
- Turn off the fuse/circuit breaker that controls the power to the area or fixtures that you are working on. Turn off as well the light switches on your wall and do not forget to test the electrical wires for voltage presence before you start working to avoid unexpected electrical shock.
- Use proper electrical protective gears and electrical tools during the installation.

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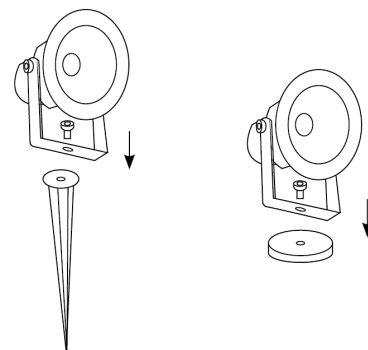
**STEP 1:** For AC240V supply installation, dig trenches for about 600mm deep then lay in the electrical conduit pipes as per the layout plan. Use a waterproof junction box and connectors for wiring. Once done, insert the electrical wires into the pipes and do the wiring connections.

\* Remember to consult local code for trench depth and wiring requirements.

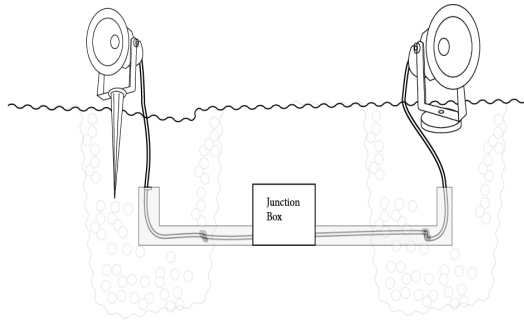


**STEP 2:** For DC12/24V supply installation, wirings can be placed on the trenches using direct burial cable and no need for electrical conduit pipes but must be using waterproof wire connectors. However as mentioned, please double check your local codes for further guidance.

**STEP 3:** Once all the wiring connections are done, place the spot light into position using spike for soft ground and mounting bracket for solid ground. Double check the connections before turning on the light.



**STEP 4:** Cover the trenches with some gravel and soil on top.



## Maintenance

- Make sure that the power to the spot light has been turned off and has given the time to cool down after being used before you start of cleaning the lighting fixture. Cleaning must be done at interval schedules to ensure to have a better lighting.
- Use damp clean cloth to wipe the dirt that adhered to the light fitting. Never try to immerse the light fitting in water.
- Use static free gloves when cleaning the luminaire to avoid markings.

## Disclaimers

- BoscoLighting is not liable where :
  - There is product malfunction and or any damages caused by improper use or installation.
  - Installation has not completed by licensed electricians.
  - Safety instructions have not been properly followed.
  - Damage due to site issues such as voltage surges, rodent damage or vandalism.
- For any dimming request, drivers may not fit inside the fitting and will be supplied externally. Please contact our office for more information.
- Lights has been designed to operate at an ambient temperature of -10°C to 45°C.

- Old style Rheostat dimmers are incompatible with LED products, warranty will be void if used on circuit with BoscoLighting products.
- Off-Peak Zellweger Ripple Control Signals may interfere with the operation of LED products, we recommend using Ripple Control Signal Filters as approved for use in your local area.
- Lights found out to be tampered with or have been tried to be repaired apart from the supplier/manufacturer during the warranty period shall void the warranty of the product. Hence, any damages caused by the said act will not be BoscoLighting's liability.
- BoscoLighting has the right to modify or obsolete the design of its products for quality improvement or due to supplier constraints.
- Products may appear different to product data sheets or installation instructions.