

G441-LED, G442-LED, G451-LED: Spike mount

Warranty void if not installed as per installation instructions

DANGER

ISOLATE LUMINAIRE FROM POWER

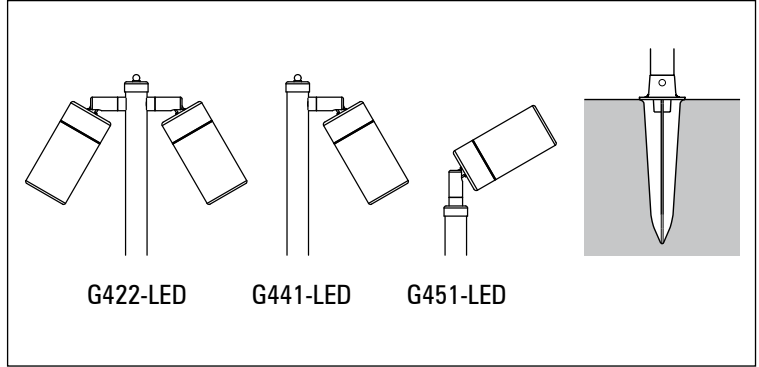
Failure to isolate power supply before installation or maintenance may result in fire, serious injury, electric shock, death and may damage the luminaire.



WARNING

It is strongly recommended to use Lumascope power supply

Opening luminaire will void warranty

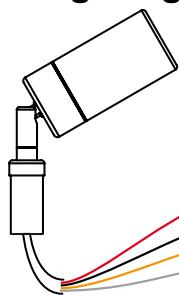


- Use a Lumascope supplied 24V DC ripple free power supply, locate centrally in relation to the luminaires. **NOTE:** Generally 24V DC ripple free power supplies should be installed in a well ventilated fully under cover environment. **NOTE:** Under no circumstances can an 'electronic' transformer be used, this may damage the product.
- Mark actual locations of luminaires to be installed. Using the charts overleaf calculate the cable size on each run including all luminaires to be connected to a run of cable. Use the same chart to select power supply.
- Lay cable from power supply for each cable run. **NOTE:** The luminaire is supplied with a 4 core cable for use with PWM dimming. The orange and grey wires are only used for optional digital 0-10V dimming with the Lumascope accessory. If 0-10V dimming is not required, do not connect these two wires. The dimming circuit can use 1mm² cable.
- Alternatively, the integral LED driver microprocessor has an on-board step-dimming feature which enables all these LED luminaires on the circuit to be set to the desired lighting intensity level. Refer the Step-Dimming procedure (see over).
- When installing each luminaire, leave enough cable at each luminaire location to allow for future re-positioning as your garden matures (1 m is usually plenty).
- Cut cable and push each end through opposite sides of spike. **NOTE:** the luminaire cable is long enough to allow for connections outside of the luminaire. If connections are not made within the stem, care should be taken to keep these connections dry.
- These wires should then be split and have the insulation stripped back to approximately 20mm.

- Push the spike into the ground at the desired location. If the ground is very hard, drive the spike in using a hammer and a block of wood to protect the spike top.
- Connect the luminaire cable to the supply cable using the wire nuts supplied. The luminaire cable will need to be trimmed to length as it is supplied standard at 1 metre in length. Full length of luminaire cable can be used if required. Keep any joints dry.
- Push the wires up into the stem of the luminaire.
- Insert the stem into the spike and secure with the stainless steel screw supplied.
- Repeat steps 4 to 10 for each luminaire.
- Connect luminaire cables to power supply, making sure indexed or coloured legs are grouped with indexed or coloured, and non-indexed or coloured legs with non-indexed or coloured.
- Connect supply to power, switch on and check each luminaire is operating.
- At night, adjust and aim you luminaires to achieve the desired effect.

NOTE: These installation instructions are accepted in most areas. Some supply authorities may require alternative installation methods.

Wiring Diagram



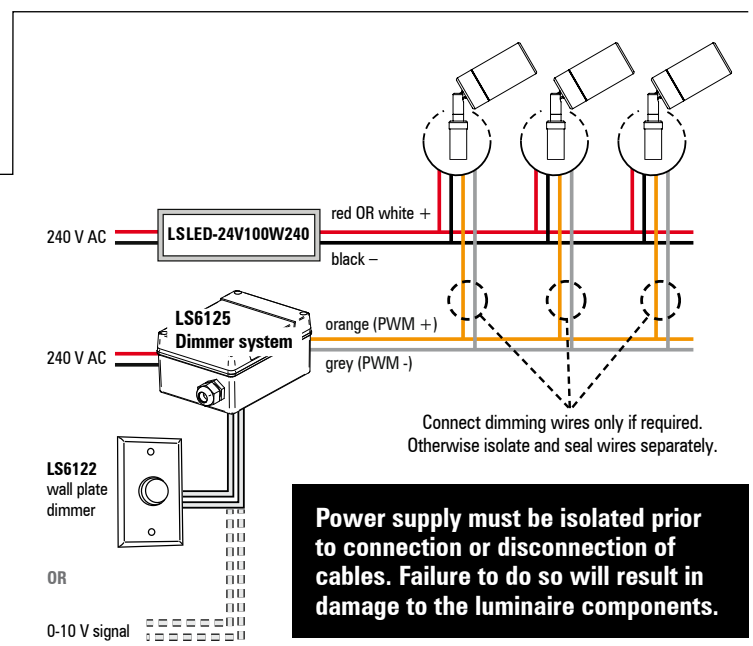
Single Colour Dimming

Wire Colour	Designation
Red or White	DC +
Black	DC -
Orange ⁽¹⁾	PWM + (optional)
Grey ⁽¹⁾	PWM - (optional)

(1) Do not connect if dimming is not required

NOTE: If dimming is required use LS6125 PWM to 0-10V dimming.

IMPORTANT: Please note that the PWM dimming signal polarity is reversed with Lumascope's LS6125 and any third party PWM controllers. See diagram on right for details.



Power supply must be isolated prior to connection or disconnection of cables. Failure to do so will result in damage to the luminaire components.

Step Dimming

Step 1. Switch the fitting **ON** for at least thirty (30) seconds.

Step 2. Switch **OFF** and back **ON** 4 times, waiting 3 seconds between each off and on cycle. Ensure all the lights go out and come on completely each time.

The fittings will now blink six times. Once complete the brightness will set to 100%.

Step 3. Switch **OFF** and **ON** slowly to decrease the brightness by 10%. Ensure all the lights go out and come on completely each time.

Step 4. When the lights are at the desired brightness, leave them on for about ten (10) seconds.

The fittings will now flash several times to confirm that you have successfully set the brightness.

NOTE: DC Power supply must be used. 'Electronic' transformer cannot be used as this may damage the product.

Maximum Circuit Load

Compatibility with each driver is indicated by the value shown in the table, representing the maximum number of luminaires that may be powered from each driver based on a maximum cable run of 100m (328ft) and a trunk cable size of 3.3mm². Please note, this does not take into consideration voltage drop beyond a distance of 100m or ampacity limits of the branch circuit. For assistance, please consult factory.

LSLED-24V Power Supplies

Input Voltage	100-240V, 50/60Hz		
Output Voltage	24V DC, 100W		
Luminaire	G422-LED	G441-LED	G451-LED
Number of luminaires, using 3.3mm ² cable, up to 100m long	5	10	10

Questions?

Call +61 7 3854 5000

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SAFETY INSTRUCTIONS

WARNING - To reduce the risk of FIRE or INJURY:

1. Luminaires and power supplied to be installed by licensed electrical contractors.
2. Luminaires to be used for intended purpose only.
3. Do not operate the luminaires with a missing or damaged parts.
4. Use only genuine Lumascope parts to replace damaged or missing components.
5. Refer to instructions for installation and operating requirements.
6. Ensure installation complies with local regulations

Voltage insulation test (megger) will permanently damage product and will void warranty.

SAVE THESE INSTRUCTIONS.