

# G461-LED: Downlight

## 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**

G461-LED

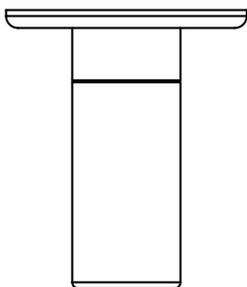
Luminaire is supplied with an earth screw in compliance with NEC requirements. Please discard if not applicable. Ensure installation complies with local laws and applicable standards.

- 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 undercover environment. **NOTE:** Under no circumstances can an 'electronic' transformer be used, this may damage the product.
- Mark actual locations of luminaires to be installed. **NOTE:** When positioning luminaires, ensure they are located in close proximity to a suitable support structure in the ceiling. 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 & 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 1mm<sup>2</sup> 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).
- Screw universal mounting ring to the ceiling ensuring it is securely fastened to a suitable support structure.
- 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. Ensure all terminals will remain dry after installation.
- Repeat step 5 to 6 for each luminaire.
- Ensure the power supply is isolated and connect the cable runs to the 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.
- Firmly screw the luminaire to the already secured mounting ring ensuring gasket is correctly inserted between the luminaire and the mounting ring. Connect power supply to power, switch on and check each luminaire is operating.

**NOTE:** It is the installer's responsibility to ensure the cable entry into the base is sealed correctly - care should be taken to ensure water can not enter along supply cable or via the mounting screws. **Failure to seal correctly will void warranty!**

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

## Wiring Diagram



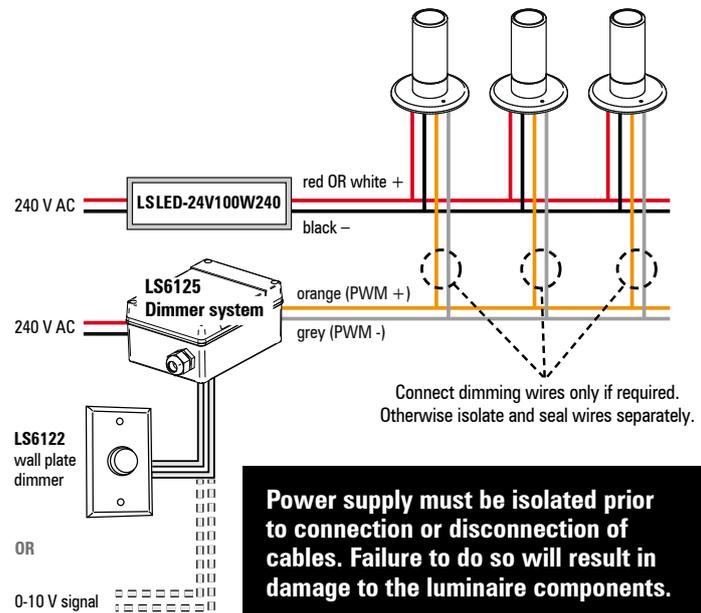
### Single Colour Dimming

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

<sup>(1)</sup> 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.*

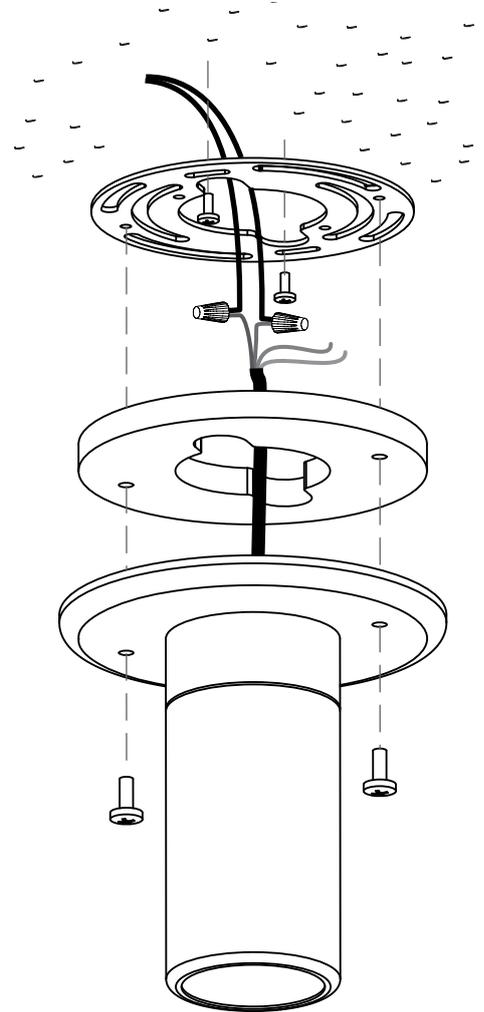
**NOTE:** DC Power supply must be used. 'Electronic' transformer cannot be used as this may damage the product.

### 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 3.3mm<sup>2</sup>. 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

<b>Input Voltage</b>	100-240V, 50/60Hz
<b>Output Voltage</b>	24V DC, 100W
<b>Luminaire</b>	G461-LED
<b>Number of luminaires, using 3.3mm<sup>2</sup> cable, up to 100m long</b>	10



### Questions?

Call +61 7 3854 5000

Email [sales@lumascape.com](mailto:sales@lumascape.com)

[www.lumascape.com](http://www.lumascape.com)

## 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.**