

LUMINO

V10S

INSTALLATION MANUAL

IMV10S_R2202

TECHNICAL SUPPORT

+44(0) 1279 635 411
www.lumino.lighting

LUMINO DISTRIBUTION LTD
Lumino House, Lovet Road
Harlow, Essex CM19 5TB
United Kingdom

Authorised EU Representative:
LDL LIGHTING EUROPE LIMITED
The Black Church, St Mary's Place
Dublin, D07 P4AX
Ireland

Installers must read this document and any other referenced documents in full before commencing installation work. Failure to observe all installation guidance in this document may result in unsafe installation, cause permanent product damage and void product warranty.

This document is subject to change without notice. Check for latest documentation with LUMINO. Copyright © LUMINO. E&OE



HANDLING PRECAUTIONS

LEDs

To avoid permanent damage, do not allow small or sharp objects to apply pressure on to the LEDs.

STRESS

Never stand or place weighted items on the product. The product is not vandal resistant and has no IK rating. Do not subject the product to impact forces.

POWER CABLES

The product end caps, power cables and connectors must not be pulled or twisted. Never pull the product by its power cables or hang it from its power cables or connectors.

CUTTING AND SAWING

The product must not be sawn, drilled or otherwise modified in any way.

DAMAGES

Inspect the product. If you see any damage upon unpacking, report to LUMINO immediately and do not install the product.

LOCATION

Suitable in dry locations only. This product is unsuitable for wet or damp locations.
IP20 rated for protection against objects 12.5mm or larger.

Protect product from dust, paint and harmful substances during installation and use. Ensure product is not exposed to VOC gases. Do not obstruct the product and its light output.

SAFETY GUIDANCE

WIRING GUIDE

Follow the guidance shown in the provided wiring guide, including maximum cable lengths, cable sizes and other wiring instructions. When running cables through an enclosure, ensure cables are protected from damage, separated from mains voltage cables and anchored against being pulled. Make connections appropriate for the IP rating of the product.

QUALIFIED INSTALLER

Installation must be carried out by a qualified person and conducted in accordance with local regulations and applicable standards.

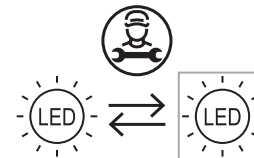
THERMAL MANAGEMENT

Ensure ambient temperature (T_a) does not exceed 40°C (104°F) and case temperature (T_c) does not exceed 70°C (158°F). Exceeding maximum T_c will cause permanent damage and void the product warranty.

Allow sufficient clear air space for the LED drivers, as well as suitable access to the drivers as specified on installation instructions.

REPAIR AND REPLACEMENT

If the product is not functioning, contact LUMINO to register a Service Call for factory repair or replacement. Product's light source is replaceable by a qualified professional. See page 4 for Ecodesign and end of life information.



DRIVERS

POWER OFF

Product and driver must not be live wired. Switch off power before work begins. Follow instructions and guidance for the make and model of driver being used.

24VDC SELV

Only use drivers with a maximum output of 24VDC. Drivers must be SELV, constant voltage with both overload and short-circuit protection.

DIMMERS

Check dimmer is compatible with the driver and certified to local regulations.

INRUSH CURRENT

Many constant voltage LED drivers can have high inrush current at power-on. Driver's inrush current can be many times the normal operating current. Use a suitable MCB. Type C MCBs are normally suitable but if inrush current is a persistent problem an inrush suppressor may be required.

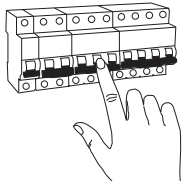
PROTECTION

Use only with 24VDC Class 2 power unit to UL1310 standard with overload and short-circuit protection. Rate drivers for at least 10% above load. Driver protection circuitry must not be relied upon to protect secondary 24VDC electrical circuits from damage caused by over-current or short circuit. DC fuses or DC electronic circuit breakers are recommended for full protection. Allow for access to drivers for maintenance and sufficient clear air space for ventilation.

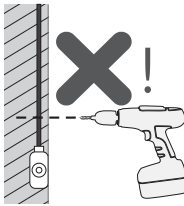
CABLING

Do not overload the driver. Damage will be caused by incorrect input voltage, reverse polarity or short circuit. Plan for loads, driver locations, dimming and cabling prior to start of work. Ensure basic insulation is maintained between mains and dimming control wires.

CHECK FIRST!



TURN OFF POWER!
COUPER LE COURANT!
STROM ABSHALTEN!
CORTE CORRIENTE!



CHECK THE WALL!
VÉRIFIER LE MUR!
DIE WAND ÜBERPRÜFEN!
COMPRUEBE LA PARED!

ACCESSORIES

Rotation Mount

V10S-ME501-R1

White PC 90° rotation mount

Solidedge Rotation Mount

V10S-ME502-R1

White PC 90° rotation mount

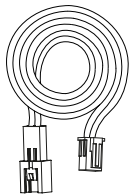


[Specify quantity required]

Cable & Connector

VECA-CA100-R1

2 Pole Power link
1000mm cable length



VECA-CA101-R2

4 Pole Power link
1000mm cable length

INSTALLATION

1. Prepare Power Supply

This product requires a 24VDC power supply.

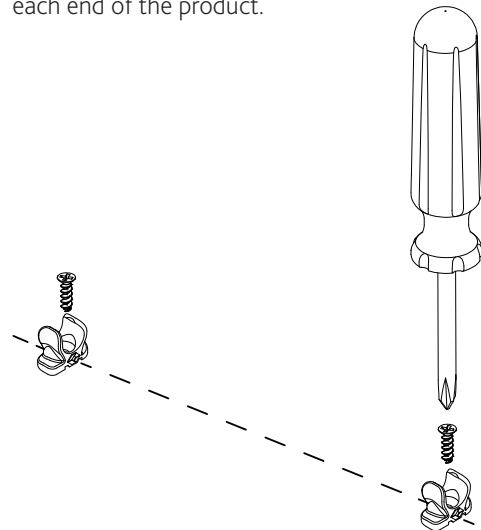
Please refer to provided wiring guide document.
Failure to follow guide may result in damage to the product and voiding of warranty.



2. Mounting Clips

Fix all the clips securely to the mounting surface. Recommended screw size is a № 4 gauge wood screw. If necessary, use alternative fixings of a similar gauge and size suitable for the material being fixed into.

Products should be held by at least 3 equally spaced clips per metre. Products shorter than 505mm may be held by just 2 clips. There must always be a clip within 100mm of each end of the product.

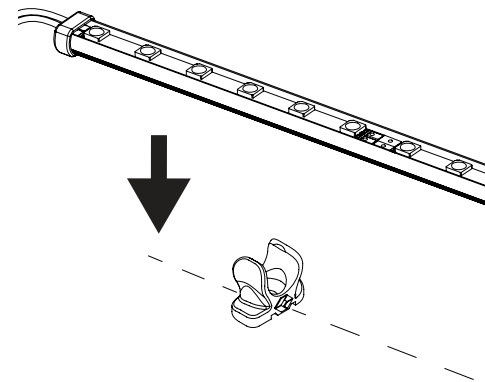
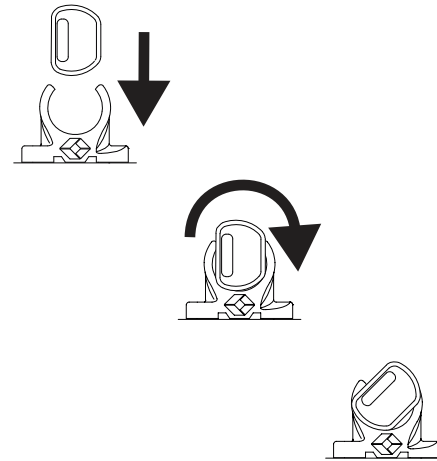


3. Product Installation

To install V10S into the rotation mounts, hold the product on its side and lower into the clip.

Rotate V10S to the desired position.

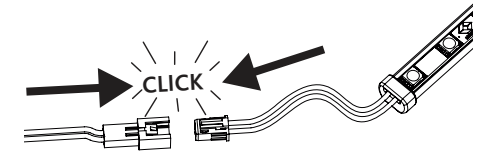
Pressure exerted within the clip will hold the V10S in position.



4. Connect to LED Driver

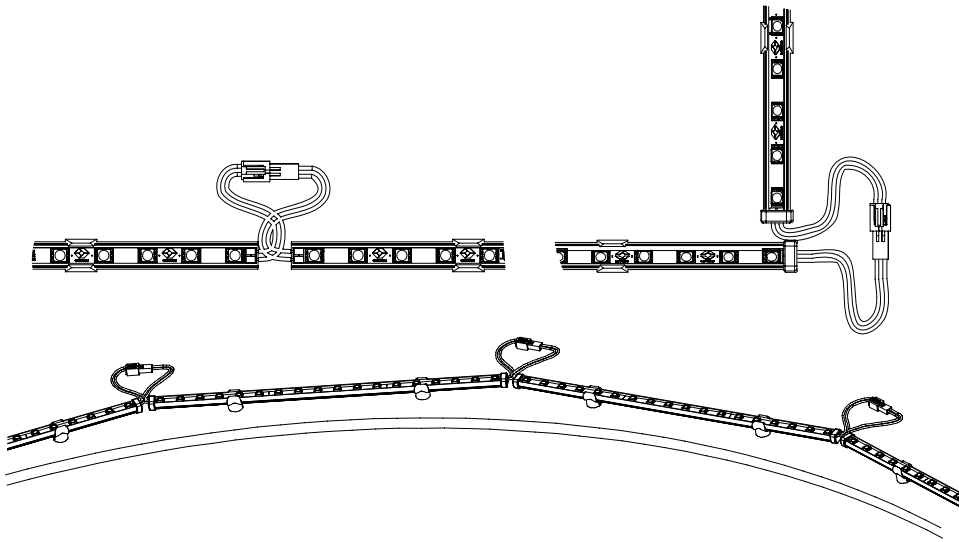
With the power off. Feed the power cables to the V10S, connecting the product to the LED driver.

Finalise all electrical connections and test the circuit. If the product does not function as expected, turn power off immediately and check all connections.

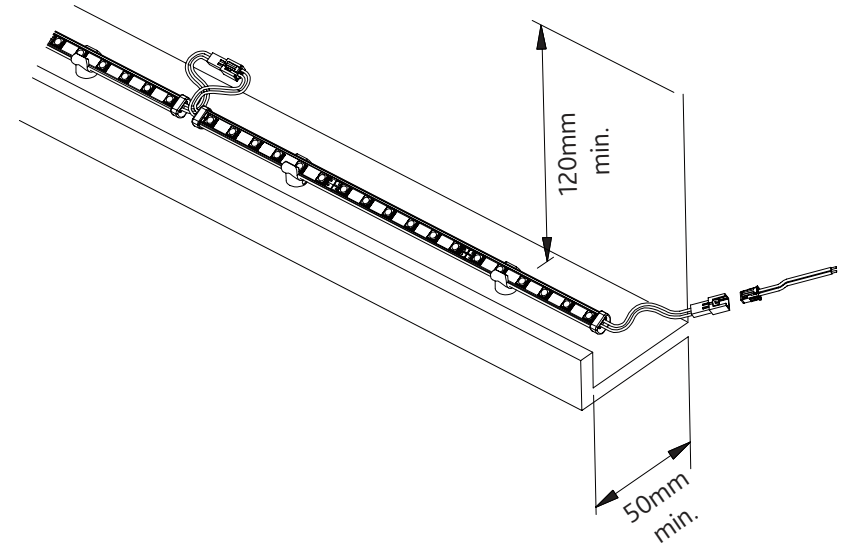


INSTALLATION

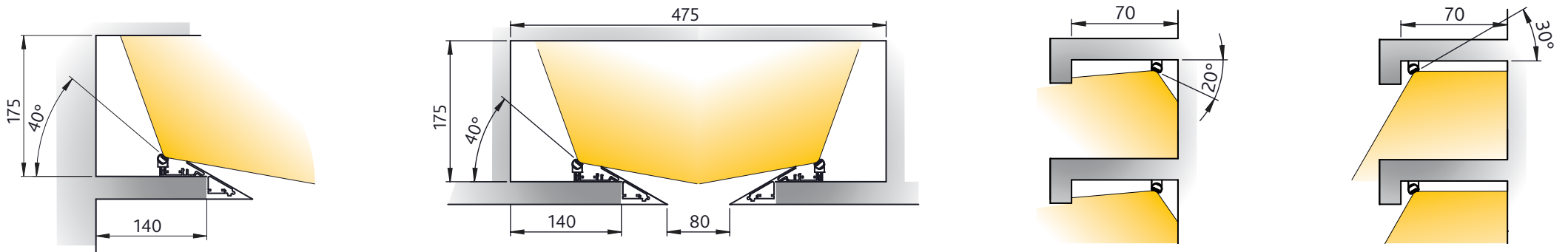
Straight, Corners & Curves



Concealed Coving

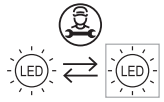


SolidEDGE & Shelving



REPAIR & REPLACEMENT

VERY IMPORTANT! PLEASE READ BEFORE CARRYING OUT ANY WORK!



This product's light source is only replaceable by a qualified professional.

If the product has stopped working, please review the following before replacing the light source. It is important to identify why the product has stopped working first, as replacing the light source might not fix the cause of the failure.

When installed correctly, LEDs have a long service life, with light output gradually decreasing over time (L70 60k hrs, 70% light output after 60,000 hours of use).

Check the lighting circuit.

Was the correct power sourced used?
Check product label for requirements.

Are there nearby heat sources that might overheat the product? See first page for maximum Ta and Tc details.

All work must be done by a qualified professional, and carried out in accordance with local regulations. All tools required to replace the light source are commonly found tools. Please contact LUMINO if further assistance is required.

It is the full responsibility of the professional carrying out the repair work to ensure that after the work is complete, the repaired product still complies with all relevant safety standards and is safe to use. LUMINO cannot accept liability for any harm resulting from an unsafe repair. If in any doubt, do not carry out repair work and contact LUMINO for support.

TOOLS & PARTS LIST

Tools & Consumables Required

- Isopropyl alcohol
- Scissors
- Slotted/Flat screwdriver
- Soldering iron
- Solder (lead-free)
- Superglue
- Wire cutters

Spare Parts

The following spare parts are available to order. Please contact LUMINO if any spare parts are required.

Cable & Connector

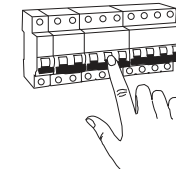
- 2 Pole male connector
- 2 Pole female connector
- 4 Pole male connector
- 4 Pole female connector

End Caps

- V10S End cap

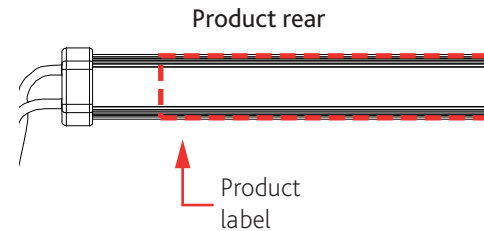
1. Turn off the power.

Make sure no electricity can reach the LED power supply.

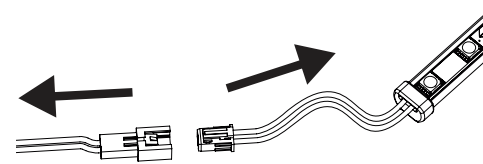


2. Check Product Label

See product label and check specification of LED tape inside. Replacement power output should match or be no greater than that of the original LED tape.



3. Disconnect V10S from LED driver.



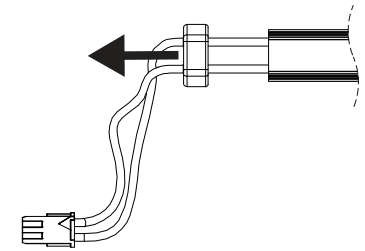
4. Move the Product

Move the V10S to an ESD safe workspace. Take all necessary ESD precautions where appropriate.



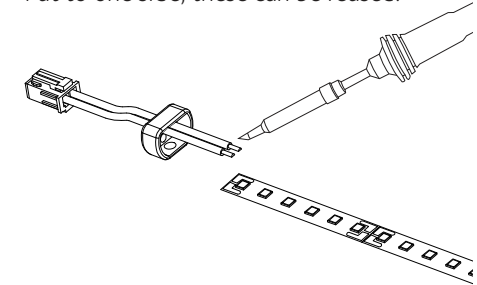
5. Remove End Caps

Carefully prize off the end caps from the V10S. Use a flat head screwdriver if required.



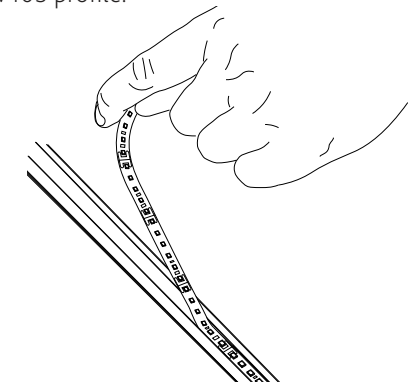
6. Remove Cables

Unsolder the wires from the LED tape. Put to one side, these can be reused.



7. Remove LEDs

Remove the original LED tape. Lift one end of the LED tape and unpeel from the V10S profile.



8. Recycling

Dispose of electronic waste in accordance with local environmental regulations. Do not send to landfill.

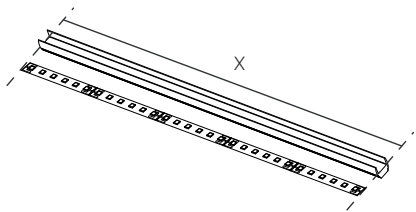


9. Clean

Remove any remaining adhesive residue inside the V10S profile. Use isopropyl alcohol if necessary and allow to air dry.

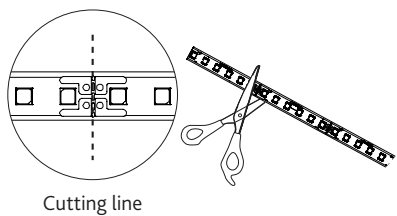
10. Measure LED Tape

Lay out the new LED tape, measuring how much is required. V10S profile's length should closely match the cut increments of the LED tape.



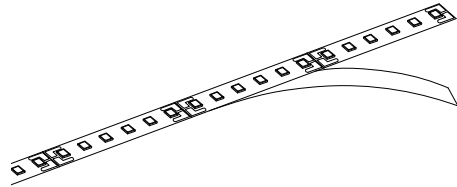
11. Trim LED Tape

Cut between solder pads using scissors. Refer to tape diagram on right.



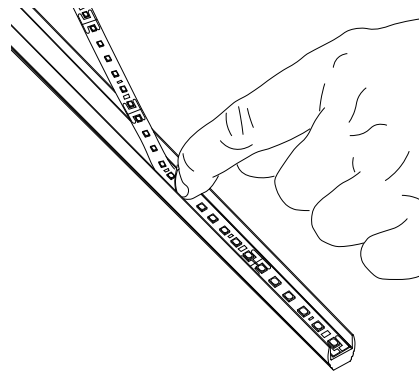
12. Peel Backing

Peel off the self adhesive tape from the back of the LED tape. For tape lengths longer than 500mm, peel the first 50mm of the backing from one end.



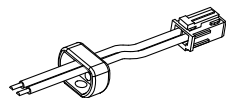
13. Install LED Tape

Align end with the beginning of the profile and press down. For longer lengths, simultaneously unpeel backing and press down on the LED tape, working along the length of the profile.



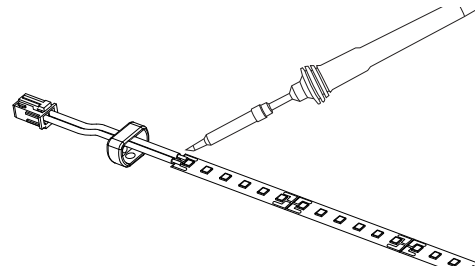
14. End Caps

Feed end caps on to the previously removed cables. Ensure they are the correct way round, relative to the cable and solder pad polarity.



15. Solder Cables

Reattach the cable/s to the LED solder pads. Take care not to over heat the pads. **IMPORTANT:** Observe LED tape's polarities!



Wiring Diagram



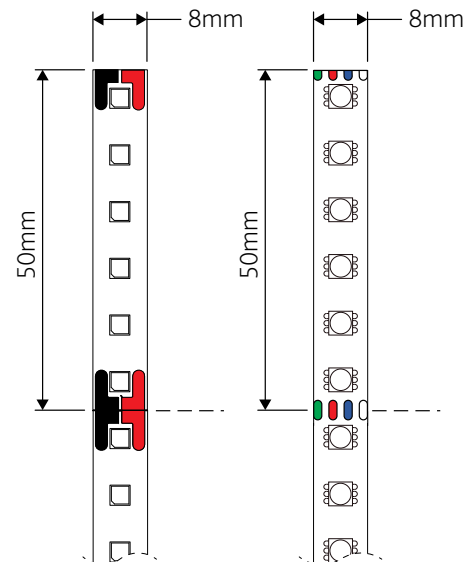
Common (+)
(CH1-)

RGB

Common (+)
Blue (CH3-)
Red (CH1-)
Green (CH2-)

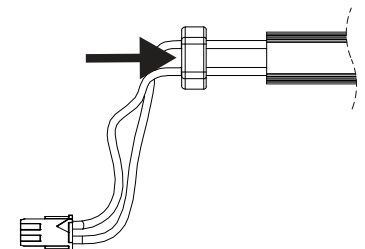


RGB



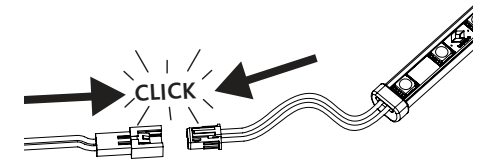
16. Attach End Caps

Slide V10S end caps on to either end of the profile. Use a small dot of superglue on the inside of the end cap to secure in place.



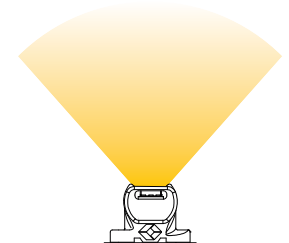
17. Reconnect

With the power off, reconnect the V10S to the LED driver.



18. Power Up

Test the V10S. If the product does not function as expected, turn power off and inspect all connections.



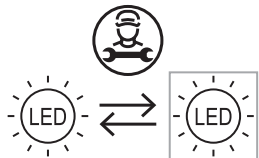
LUMINO

ECODESIGN REGULATION

This product is considered to be a “containing product” in the sense of Regulations (EU) 2019/2020 and (EU) 2019/2015.

The contained light source is replaceable only by a qualified professional.

This product contains a light source of energy efficiency class as shown in the Energy Rating table. Replacement light sources must be of equal or higher energy rating. Full electrical, mechanical, thermal and optical functionality must be restored by a qualified professional when light source is replaced.



DISMANTLING

Dismantling of light source from the containing product at end of life:

The product shall be disassembled in accordance to the provided instructions.

Containing products shall be separated from building material and/or from other additional mounting accessories by means of a professional installer.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK.

LUMINO is a member of the WEEE producer compliance scheme.
Registration number: WEE/MM8138AA

ENERGY RATING

This product contains light sources of energy efficiency classes as shown:

LED	CCT	6W/m	12W/m
ColorCORE	4000K	F	F
	3500K	F	F
	3000K	F	F
	2700K	F	F
	2500K	F	F
	2200K	F	F
EQ	4000K	F	F
	3000K	G	G
	2700K	G	G
RGB	N/A		