

LUMINO

V36S IP50

INSTALLATION MANUAL

IMV36S_IP50_R2202

TECHNICAL SUPPORT

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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.

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HANDLING PRECAUTIONS

PLASTIC COVER / DIFFUSER

To avoid permanent damage, do not allow small or sharp objects to apply pressure on to the plastic cover / diffuser.

IMPACT PROTECTION

The product is not vandal resistant. Never stand or place weighted items on the product. This product has a maximum IK rating of IK08.

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

Use in dry locations only. This product is unsuitable for wet and damp locations. **IP50 rated for dust protection.**

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.

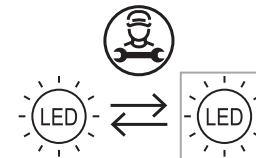
THERMAL MANAGEMENT

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 6 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.

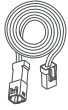
CABLING

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.

ACCESSORIES

Cable & Connector

VECA-CA0250-___MF-R1
2 / 3 / 4 / 5 Pole power link
250mm cable length



VECA-CA1000-___MF-R1
2 / 3 / 4 / 5 Pole power link
1000mm cable length

IDC Connector

VECA-CA90___-R1
Sealant connector.
1 - 3A Max / 3 - 5A Max. Pair



Self-Closing Cable Sleeve

VECA-SL001-R1
1m cable sleeving



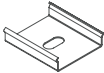
Easy Mount

V36S-MS402-R1
Mounting clips
1 pair per luminaire



Stealth Mount

V36S-MS501-R1
Hidden fixing clip
Allow 3 clips per metre



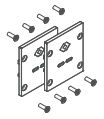
Rotation Mount

V36S-MS601-R1
Rotation mount
Allow 2 clips per metre



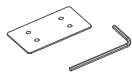
End Cap Kit

V36S-M___202-R1
Pair of end caps
S - Silver / B - Black / W - White

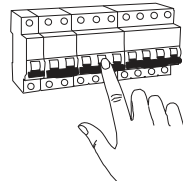


IP50 Joining Kit

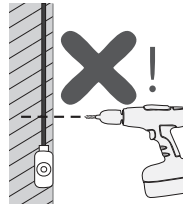
V36S-JA203-R1
Linear joining kit



CHECK FIRST!



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



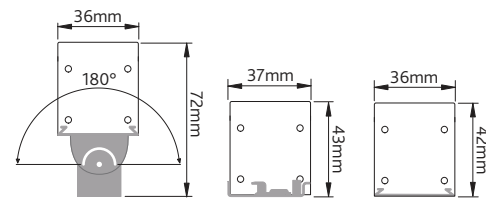
CHECK THE WALL!
VÉRIFIER LE MUR!
DIE WAND ÜBERPRÜFEN!
COMPRUEBE LA PARED!

INSTALLATION

1. Plan Installation

Check product and its dimensions against the planned installation. Runs of LEDs may have to be installed in a particular sequence.

105mm - 2005mm length
▲ ~1195g per metre



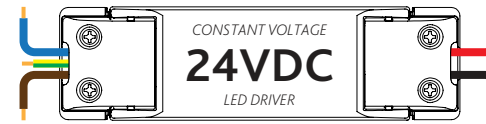
Rotation Mount

Easy Mount

Stealth Mount

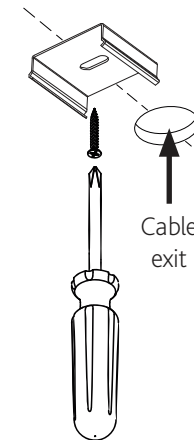
2. Prepare Power Supply

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.



3. Cable Exit

Plan cable entry and exit points before installing the product. Make a suitably sized hole for the cable/s to pass through, and position beneath where the product is planned to be placed.



4. Mounting Clips

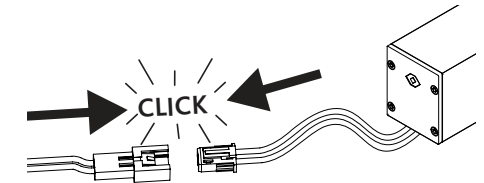
Fix all the clips securely to the mounting surface. Recommended screw size is no greater than Ø4.00mm in diameter. Use fixings suitable for the material being fixed into.

Products should be held with equally spaced clips (see accessories for quantity per metre). Products shorter than 505mm may be held by just 2 clips. There must always be a clip within 100mm to 200mm of each end of the product.

5. Connect to LED Driver

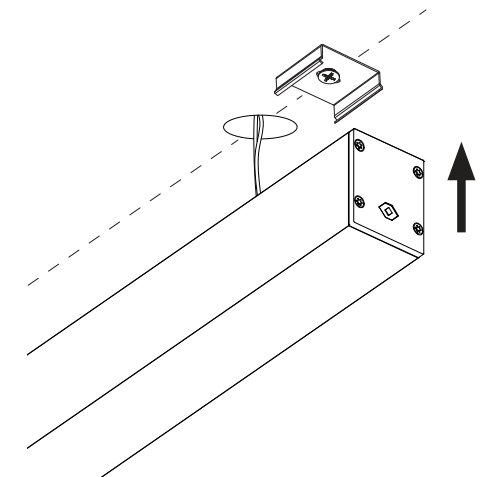
With the power off. Feed the power cables to the V36S, connecting the product to the LED driver.

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



6. Mount Product

Align clips and carefully push the product into the clips. Ensure the product is fully clipped in place and check it is not misaligned or misplaced due to screw heads or wires. Ensure that cables are not pinched when installed.

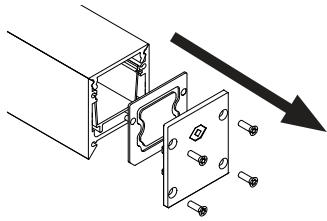


ROTATION MOUNT INSTALLATION

V36S-MS601-R1

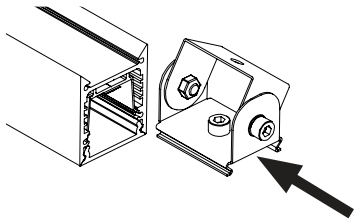
1. Remove End Cap and Gasket

To install the rotation mounts, remove the end cap and gasket from one end of the product, using a torx T8 screwdriver.



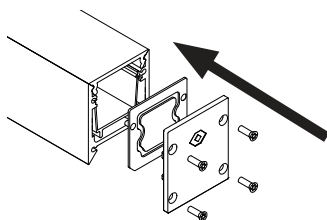
2. Install Mounts

Slide rotation mounts into the rear channel of the V36S. A minimum of 2 are required for products up to 1.4m in length, and 3 required for products longer than 1.4m.



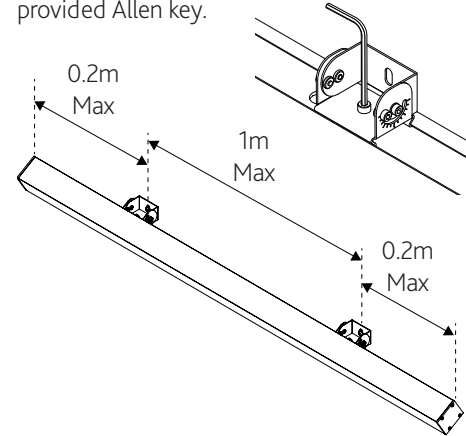
3. Reinstall End Cap and Gasket

Using a torx T8 screwdriver, reattach the end cap and gasket to the V36S profile. Hand tighten screw, do not over torque.



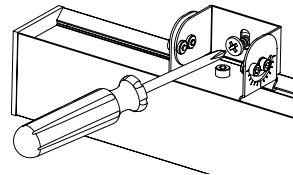
4. Tighten Mounts

Fix positions of the mounts against the V36S profile by spacing the mounts out as shown in the diagram, then tighten screws using the provided Allen key.



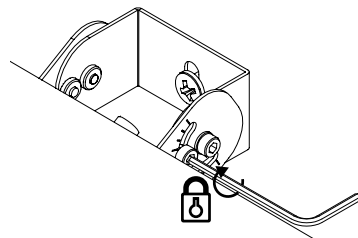
5. Mount the V36S

Fix the V36S to the mounting surface using a screw fixing appropriate for the mounting surface.



6. Adjust

Adjust the V36S to the desired position and lock of the angle of adjustment using the provided Allen key. Ensure that all adjustment screws are tightened.

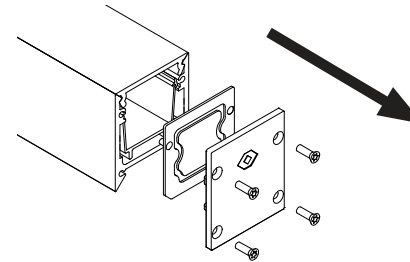


JOINING KIT INSTALLATION

V36S-JA203-R1

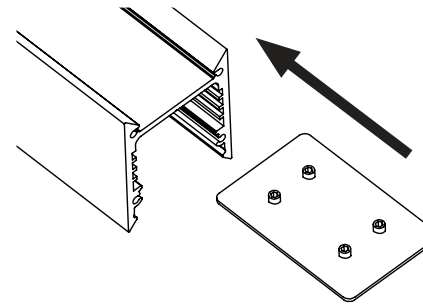
1. Remove End Cap and Gasket

To install the joining kit, prepare both joining products by removing an end cap and gasket from each product, using a torx T8 screwdriver.



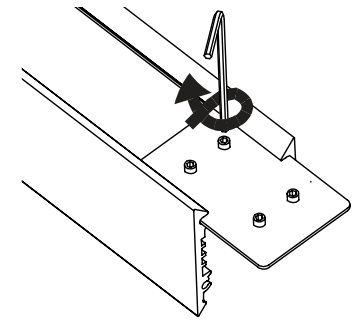
2. Install Joining Plate

Slide plate into the rear channel of the V36S.



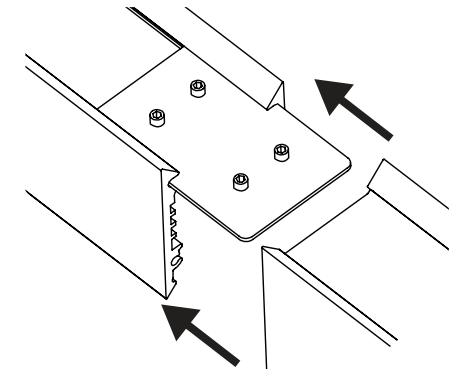
3. Tighten Screws

Fix position of the plate against the first V36S profile. Make sure that the joining plate will equally straddle both joining products.



4. Join Products

Slide the next V36S on to the joining plate and tighten grub screws.



5. Mount the Joined V36S

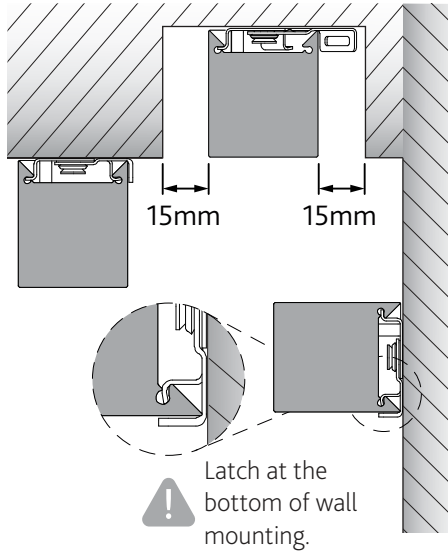
Carefully lift and mount the joined products to the chosen mounting accessories.

EASY MOUNT INSTALLATION

V36S-MS402-R1

1. Plan Out Installation

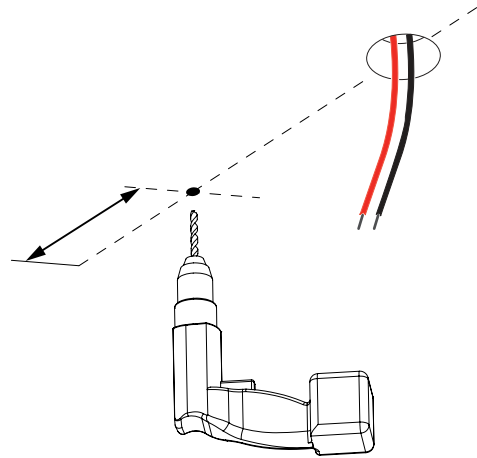
Easy mount fixing orientation should be installed as shown.



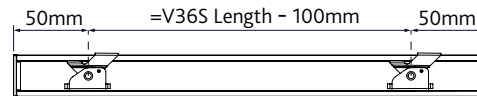
2. Measure and Drill Holes

Plan fixing hole positions, drill pilot holes and cable entry/exit holes as required.

Make a suitably sized hole for the cable/s to pass through, and position beneath where the product is planned to be placed.

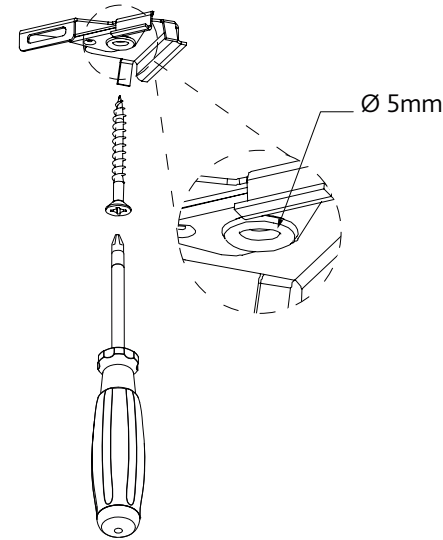


! Easy mounts spaced 50mm from each end of the luminaire.



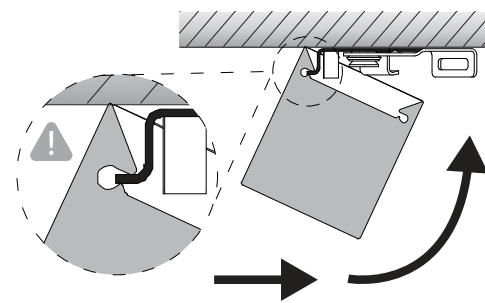
3. Fix to Mounting Surface

Fix the easy mount to the fixing surface using a screw fixing appropriate for the mounting surface. Use a screw no bigger than $\text{Ø}5\text{mm}$. Allow for easy mount to have some movement.



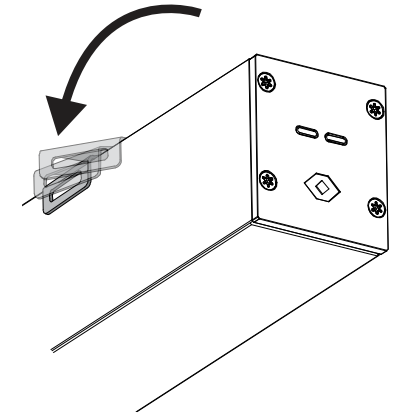
4. Install V36S

Fit V36S to the easy mounts, making sure not to pinch cables when installing.



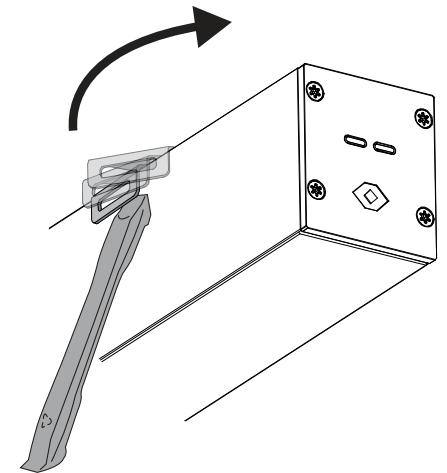
5. Close Latch

Secure V36S to the easy mounts by closing the latch. Check that mounting is secure.



Removing V36S

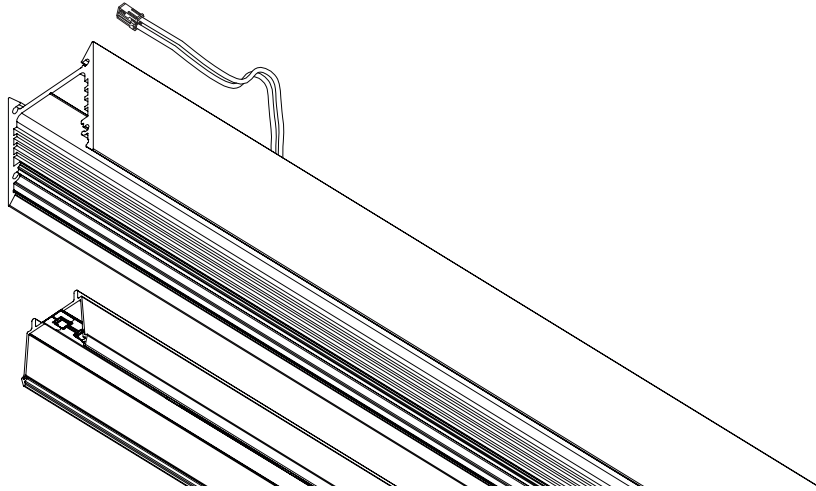
To remove, use a plastic pry tool. Following steps 4 and 5 in reverse.



V36S KIT ASSEMBLY

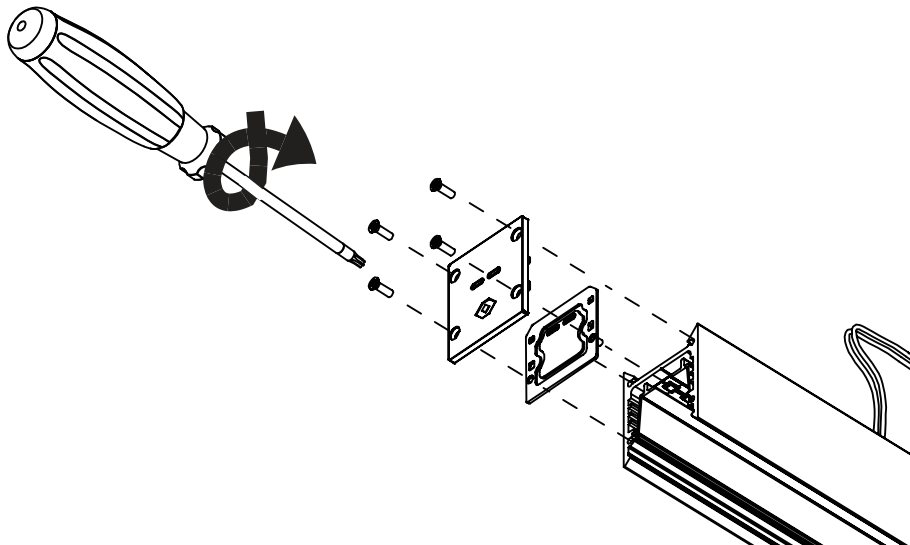
1. Route Cable and Install Gear Tray

Carefully feed cable from the LED gear tray through the V36S profile. Proceed to install the LED gear tray by applying firm pressure with thumbs to snap into the V36S profile. Take care not to pinch any cables when installing the gear tray.



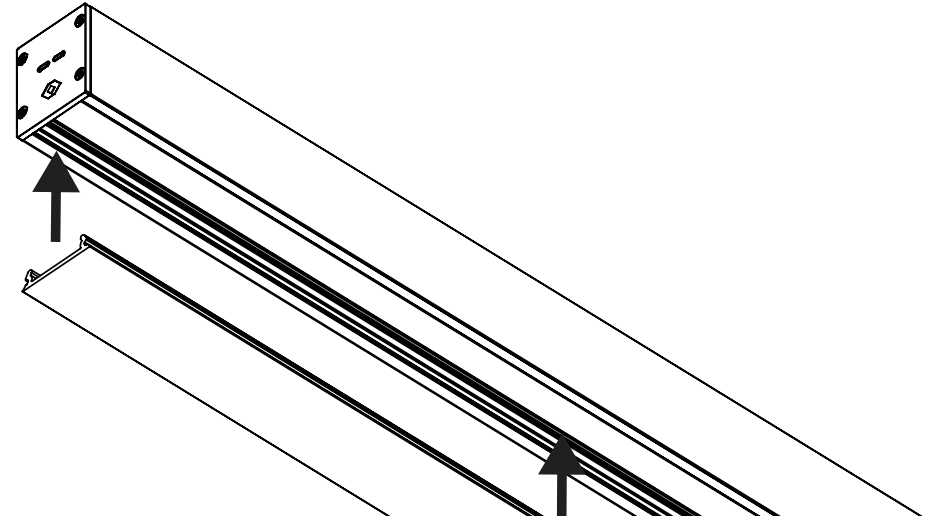
2. End Caps and Gaskets

Using a torx T8 screwdriver, attach the end caps and gaskets to the V36S profile. Hand tighten screw, do not over torque.



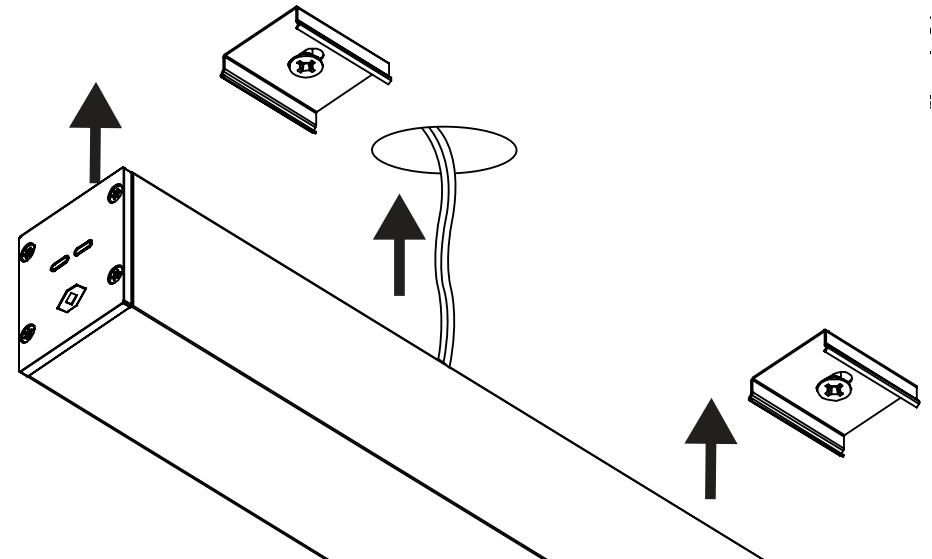
3. Install Diffuser

Align ends with the V36S extrusion, then snap the clear or opal diffuser cover into place with firm pressure applied from hands.



4. Install Product

Please refer to page 2 of this document to install the completed V36S.

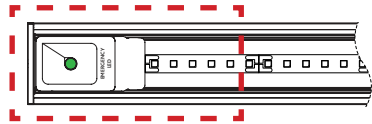


EMERGENCY CHARGING LED

IMPORTANT

For products containing an emergency charging LED for use with emergency packs.

To identify, check product as shown...



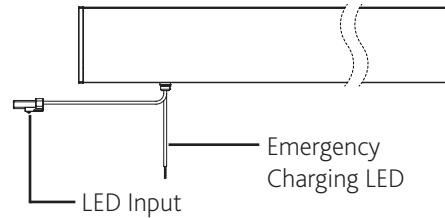
... Or, check the product label. Product codes ending with "DBE" or "HAE" are products equipped with an emergency charging LED.

INSTALLATION

TURN OFF POWER AND DISCONNECT BATTERY PACK BEFORE WORK COMMENCES.

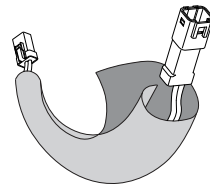
1. Installation

Follow the installation guide as detailed on the previous page. Make allowances for an additional pair of wires (emergency charging LED).



2. Cabling

Feed both LED and emergency charging LED cables back to the emergency pack location. Protect cables with sleeving for outdoor installations (self-closing cable sleeving: VECA-SL001-R1)



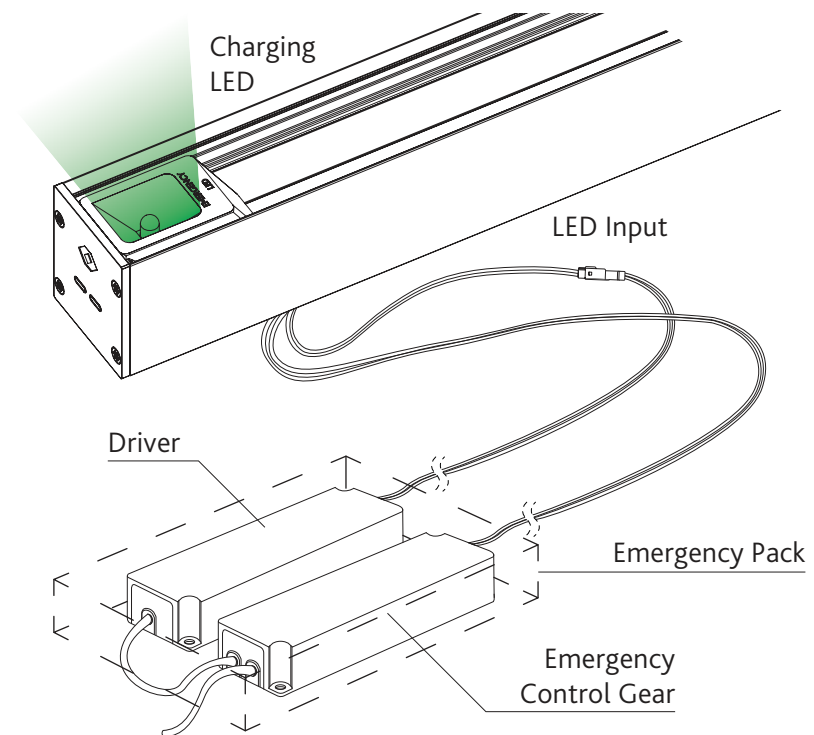
3. Connect Cables

Connect cables to the correct terminals found on the emergency pack.

LED is 24VDC and emergency charging LED is 3VDC, ensure the correct LED is connected to the correct output.

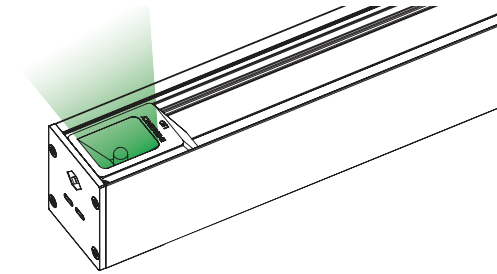
Emergency charging LED's polarity is important, showing either green or red depending on the status of the emergency pack.

Red wire = Positive (+)
White wire = Negative (-)



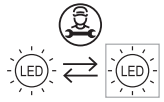
5. Finishing Up

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



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
- T8 torx screwdriver
- Scissors
- Small hole punch tool (Ø1.2mm)
- Soldering iron
- Solder wick / sucker
- Solder (lead-free)
- Wire cutters

Spare Parts

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

Diffusers

- V36S Clear diffuser
- V36S Opal diffuser

End Caps

- V36S End cap
- Silver / White / Black

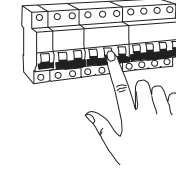
Gasket

- V36S Silicone gasket

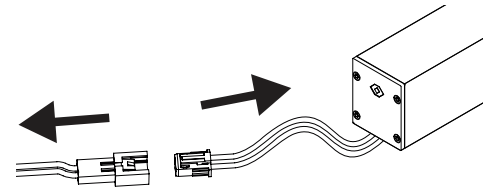
Instructions are meant for IP50 rated products only. Do not attempt to repair the IP67 version of this product and instead contact LUMINO if a repair is required.

1. Turn off the power.

Make sure no electricity can reach the LED power supply.

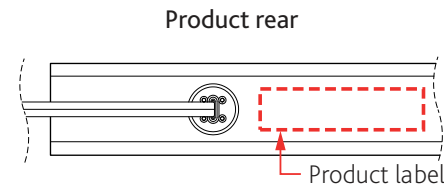


2. Disconnect V36S from LED driver.



3. 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.



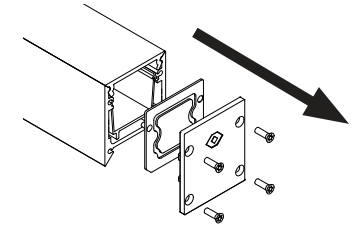
4. Move the Product

Move the V36S to an ESD safe workspace. Take all necessary ESD precautions where appropriate.



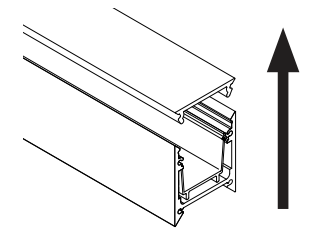
5. Remove End Caps & Gaskets

Carefully remove the end caps and gaskets from the V36S using a torx T8 bit.



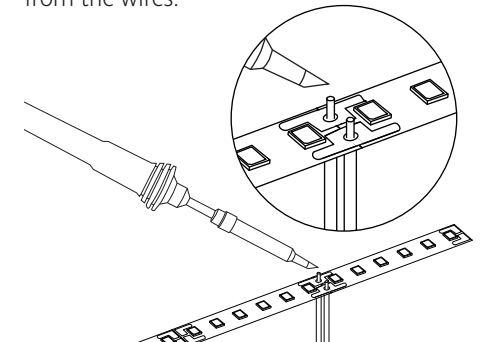
6. Remove Diffuser

Starting from one end, gently pry the plastic diffuser off from the V36S. Take care not to crack the diffuser. Set all components aside for later use.



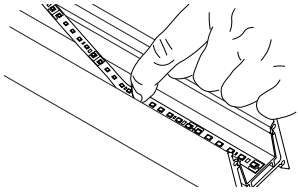
7. Unsolder Cable

Unsolder the individual wires from the LED tape. Additional solder and solder wick may be required to complete this step. Once the solder pad is at the correct temperature, slowly lift the LED tape away from the wires.



8. Remove LEDs

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



9. Recycling

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

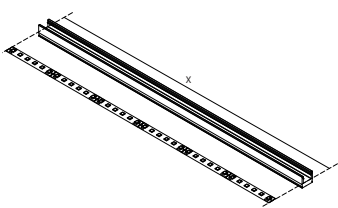


10. Clean

Remove any remaining adhesive residue inside the V36S profile. Use isopropyl alcohol if necessary and allow to air dry.

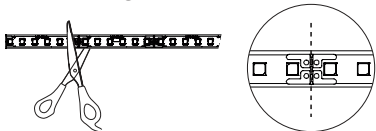
11. Measure LED Tape

Lay out the new LED tape, measuring how much is required. V36S profile's length should closely match the cut increments of the LED tape.



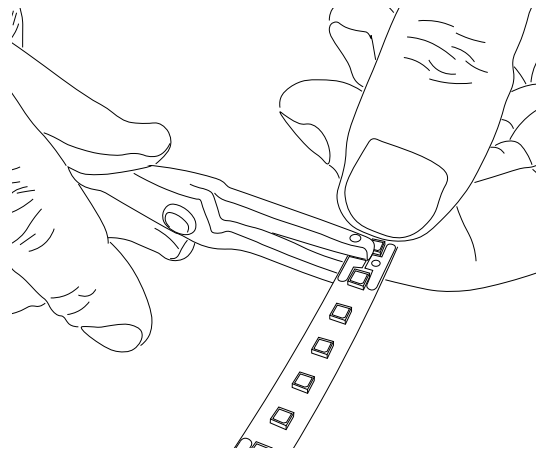
12. Trim LED Tape

Cut between the solder pads using strong scissors. LED tape cut increments are shown on the right.

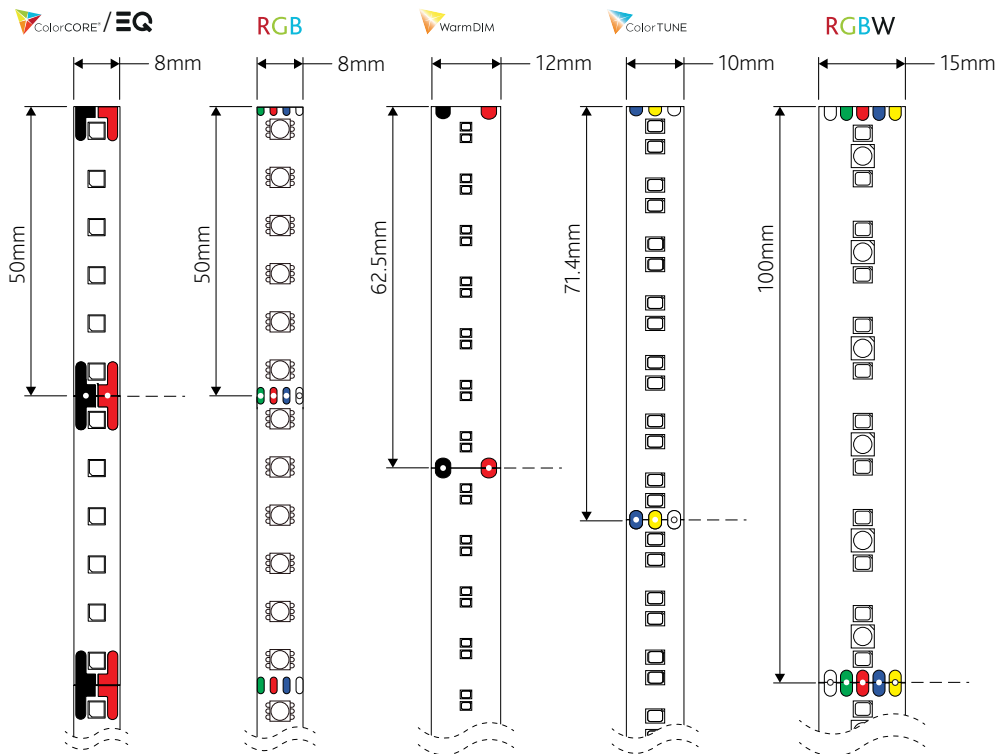
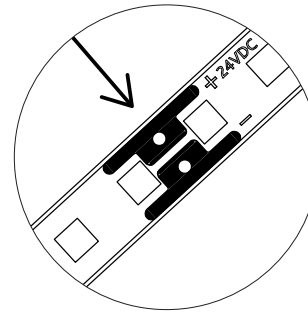


13. Punch Holes

Using a small hole punch tool, create Ø1.2mm holes in the LED tape as shown.

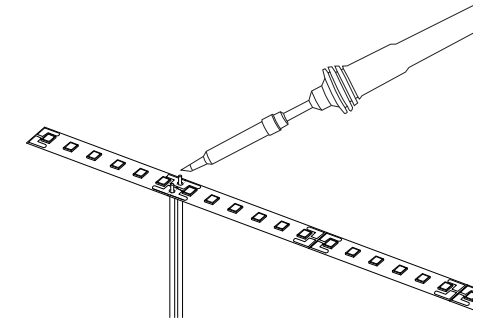


Hole position must match up with the cable entry hole on the V36S's profile. See hole offset set below.

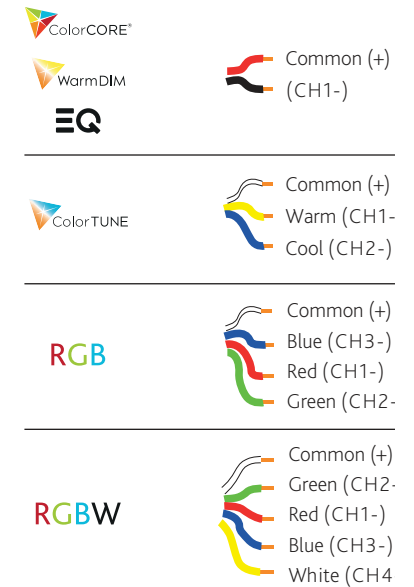


14. Solder Cables

With the paper backing. Resolder the cable/s to the LED solder pads. Take care not to over heat the pads. IMPORTANT: Observe LED tape's polarities!



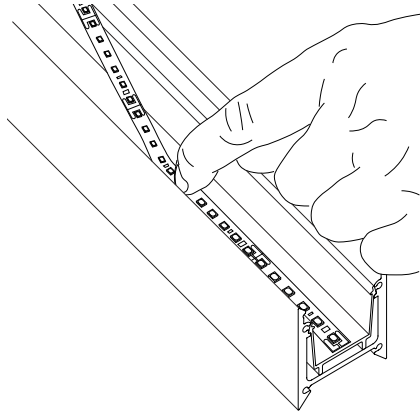
Wiring Diagram



15. Install LED Tape

Peel back 50mm to 100mm of the adhesive backing, starting with the hole punched end of the LED tape. Carefully align the beginning of the tape with the start of the V36S profile. Simultaneously unpeel backing and press down on the LED tape, working along the entire length of the profile.

Only use finger/thumb pressure on the LEDs.

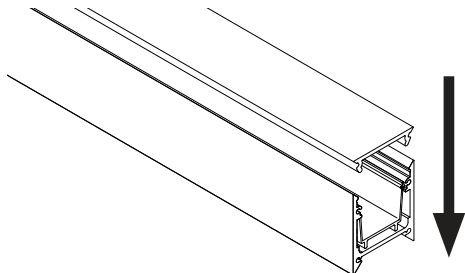


16. Test LED

Before any further work is done. Momentarily power the LED to verify that the cable was soldered to the LED tape correctly, and that the tape itself is functioning.

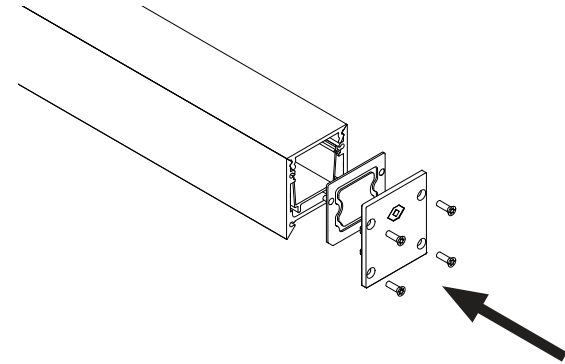
18. Install Diffuser

Align ends with the V36S extrusion, then snap the clear or opal diffuser cover into place with firm pressure applied from hands.



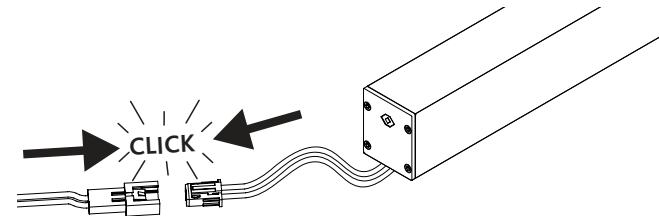
19. End Caps & Gaskets

Install both end caps with gaskets, using a torx T8 screwdriver. Hand tighten screw, do not over torque.



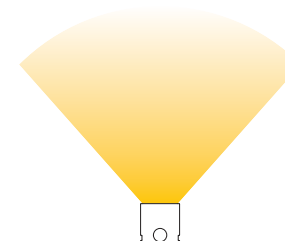
20. Reconnect

With the power off, reconnect the V36S to the LED driver.



21. Power Up

Test the V36S. If the product does not function as expected, turn power off and inspect all connections.



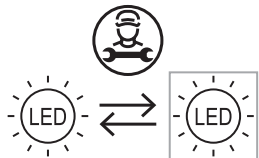
LUMINO

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	9.6W/m	12W/m	24W/m	30W/m
ColorCORE	4000K	-	F	F	F
	3500K	-	F	F	F
	3000K	-	F	F	F
	2700K	-	F	G	G
	2500K	-	F	G	G
	2200K	-	F	G	G
EQ	4000K	-	F	G	G
	3000K	-	G	G	G
	2700K	-	G	G	G
ColorTUNE	4000K - 2200K	-	-	F	-
	3000K - 1800K	-	-	F	-
WarmDIM	3000K	F	-	-	-
RGBW	RGB + 3000K	-	F	G	-
RGB	N/A				