

LUMINO

VERO-R IP64

INSTALLATION MANUAL

IM-VERO-R-R2601

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.

This document is subject to change without notice.
Check for latest documentation with LUMINO.
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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.

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

When marked as IP64: the light is suitable for damp locations, protected against water splashes, and IP64 rated for dust protection.

Where marked as IP20: the light is for use in dry locations only, unsuitable for wet or damp locations, and IP20 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.

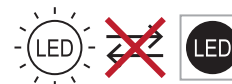
THERMAL MANAGEMENT

Ensure ambient temperature (Ta) does not exceed 40°C (104°F) and case temperature (Tc) does not exceed 70°C (158°F). Exceeding maximum Tc 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. Light source is not user replaceable. 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.

ACCESSORIES

Cable & Connector

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



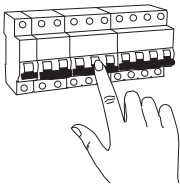
VECA-CA1000-__MF-R1
2 / 3 / 4 / 5 Pole power link
1000mm cable length

IDC Connector

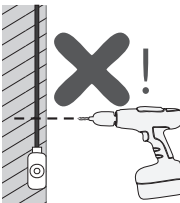
VECA-CA90__-R1
Sealant connector.
1 - 3A Max / 3 - 5A Max. Pair



CHECK FIRST!



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

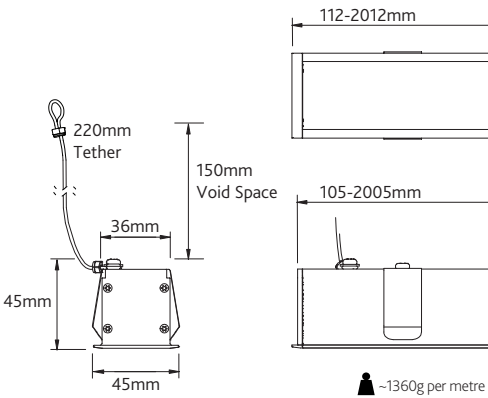


CHECK THE WALL!
VÉRIFIER LE MUR!
DIE WAND ÜBERPRÜFEN!
COMPRUEBE LA PARED!

INSTALLATION

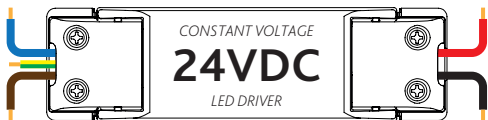
1. Plan Installation

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



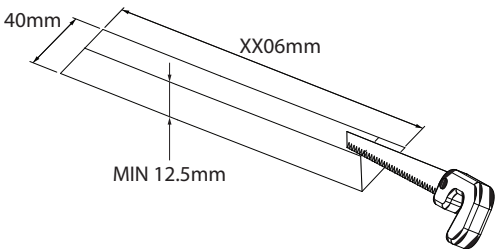
2. Prepare Power Supply

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.



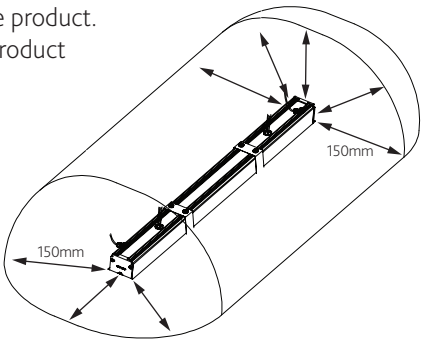
3. Cut-out Requirements

Saw cut-out using dimensions below. As shown, add an additional 1mm to the length of the cut-out, with a surface thickness of 12.5mm MIN.



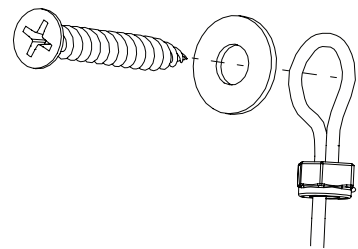
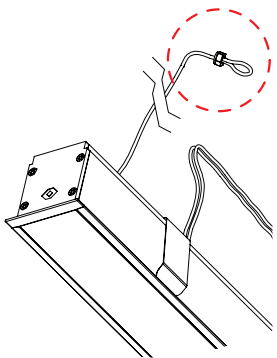
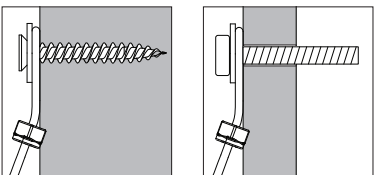
4. Ceiling Void Requirements

Observe minimum space requirements behind the product. VERO-R requires 150mm of clear air around the product and to be 150mm away from the LED driver.



5. Safety Tether

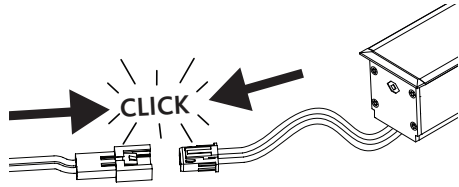
Secure safety tethers, refer to chart for weights and dimensions. Use appropriate fixings and techniques as required by local regulations.



Length	Cut-out	Weight
105mm	40mm x 106mm	0.18 KG
205mm	40mm x 206mm	0.30 KG
305mm	40mm x 306mm	0.42 KG
405mm	40mm x 406mm	0.55 KG
505mm	40mm x 506mm	0.67 KG
605mm	40mm x 606mm	0.79 KG
705mm	40mm x 706mm	0.92 KG
805mm	40mm x 806mm	1.04 KG
905mm	40mm x 906mm	1.17 KG
1005mm	40mm x 1006mm	1.29 KG
1105mm	40mm x 1106mm	1.42 KG
1205mm	40mm x 1206mm	1.54 KG
1305mm	40mm x 1306mm	1.66 KG
1405mm	40mm x 1406mm	1.79 KG
1505mm	40mm x 1506mm	1.92 KG
1605mm	40mm x 1606mm	2.04 KG
1705mm	40mm x 1706mm	2.16 KG
1805mm	40mm x 1806mm	2.29 KG
1905mm	40mm x 1906mm	2.41 KG
2005mm	40mm x 2006mm	2.53 KG

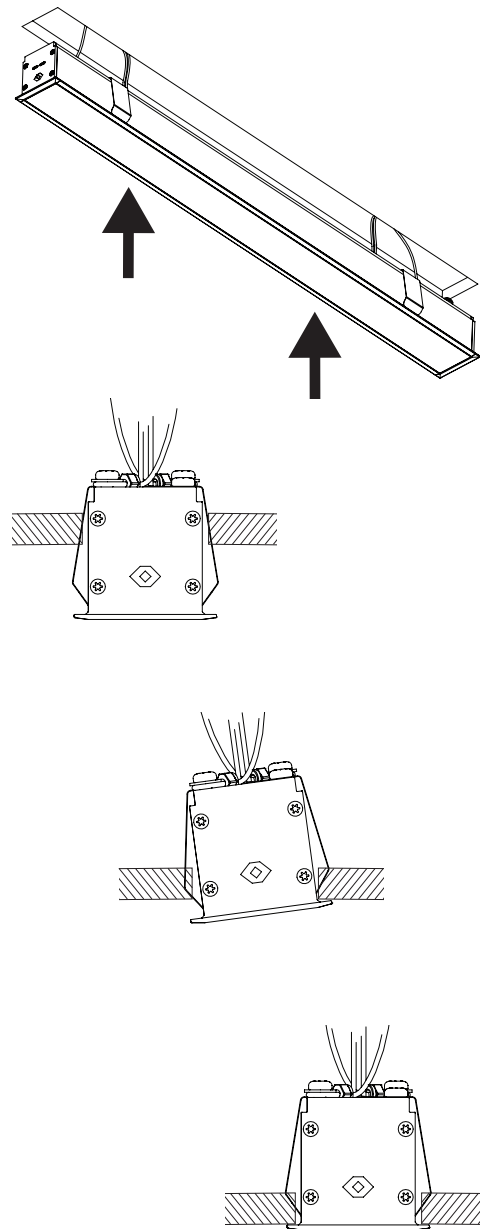
6. Connect to LED Driver

With the power off. Feed the power cables to the VERO-R, connecting the product to the LED driver.



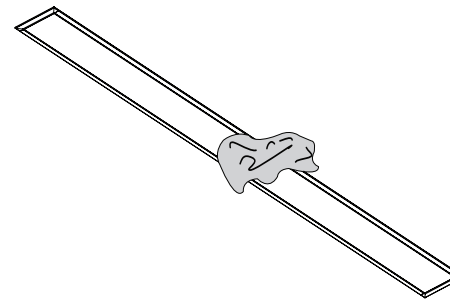
7. Install V36R

Install into cut-out, applying even pressure. Check that the spring clips have engaged, securing the VERO-R in place.



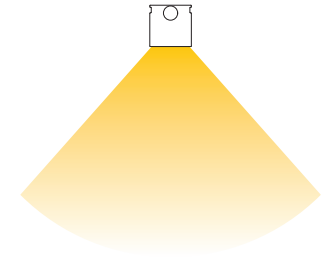
8. Clean

Clean VERO-R should be cleaned with a soft, dry cloth.



9. Power 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.

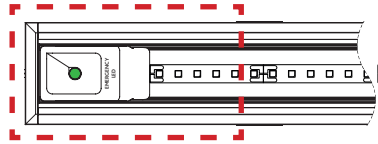


EMERGENCY CHARGING LED

IMPORTANT

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

To identify, check product as shown...



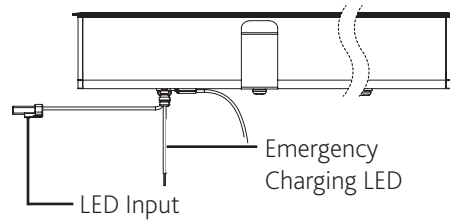
... Or, check the product label.
Product codes ending with "DBE" or "HAE" are products equipped with an emergency charging LED.

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.

3. Connect Cables

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

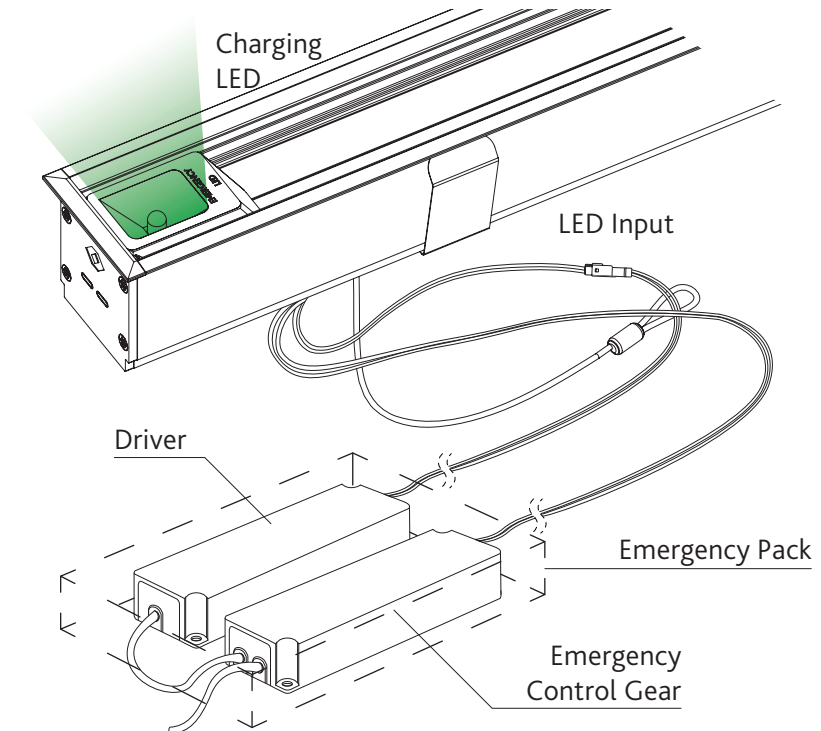
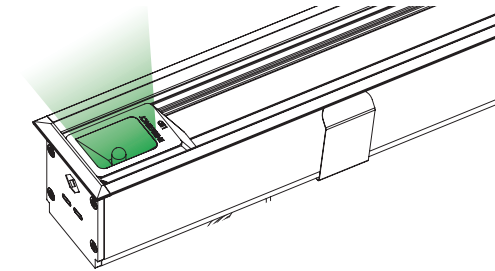
LED is 24VDC and emergency charging LED is 3VDC, ensure the correct LED is connected to the correct output.

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.

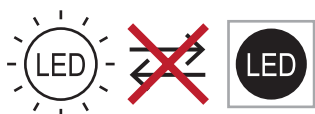


ECODESIGN REGULATION

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 an integrated part of the containing product and its removal can only be done by causing permanent damage to the containing product.

Therefore, replacement of the light source with the use of commonly available tools is not justified due to its restricted mechanical, electrical, optical, thermal and/or environmental protection requirements.



DISMANTLING

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

The containing product shall be cut to the length of the contained light source and the light source mechanically detached from the containing product. Containing product component parts shall then be disassembled.

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				