



**Please take the time to read this quick installation guide. The guide contains important information and notes regarding the installation and operation of Sedna® OMNI® LED Light engine Series**

**WARNING:** This product must be installed in accordance with the applicable installation code by a competent persons familiar with the installation and operation of the product, IEEE national wiring standards & hazards involved

## Installation Instructions

**DANGER-RISK OF SHOCK-DISCONNECT POWER BEFORE INSTALLATION - DO NOT TOUCH LED EXPOSED COMPONENTS/PCB**

**DANGER-RISK OF SHOCK-DISCONNECT POWER BEFORE INSTALLATION**

1. Select and install the appropriate luminaire/medium for desired installation of the light engines PRIOR to installation of the electrics: ensure location performance (airflow, ambient temperature, fixing points) are checked PRIOR to installation - **incorrect fitting not in accordance with the manufacturers guidelines & instructions could result in damage/failure of the luminaire, which may invalidate warranty.** It should be noted the maximum ambient operating temperature of the light engine is +50°C.
2. Wipe down/clean/ensure fixing points for light engines are free of debris which may impair adhesion of the heat-transfer adhesive.
3. Any fixing points required on the mounting medium should be applied, prior to applying the light engine to the mount surface. Installation of holes/fixing points once the light engine is in position may cause damage to the PCB/LED and/or exposed circuitry on the light engines.
4. Remove heat transfer adhesive backing from the rear of the light engine. Navigate into position and press firmly down to ensure positive adhesion evenly across the light engine - TAKE CARE not to touch/damage exposed PCB/LED components.. **NOTE: Option SD-OMNI-XXXX-FR/CL - for installation of clear/frosted light engine diffusers, aluminium backing plate to be applied prior to installation light engine. Methodology as per step 4, repeated with the light engine placed directly on top, mounted centrally to the backing plate. Diffuser to be applied post-wiring.**
5. Using SD-OMNI-PUSH push rivets for fixing of the light engine, simply insert the rivet into the fixing holes and push firmly until the push rivet has entered the light engine-mounting medium & firmly locked into place. It is strongly recommended that SD-OMNI-PUSH push rivets are used with all permanent installations to ensure complete & long-term fixing of the light engine into position.
6. Repeat steps 1-5 for remaining light engines if required.
7. Taking appropriate driver connector & cut to desired length & insert into Light engine PCB connector. Wire preparation: 0.2-0.75mm<sup>2</sup> single stranded cable / Wire skinning length 8-9mm, selecting the appropriate input/output terminal taking note of relevant +/-polarity (SD-OMNI-TRD Tridonic® Micron PCB Wire Connector tool is recommended to ensure secure cable entry/connection).
8. Follow step 7 for extension of the cable/looping in/out multiple light engines, select appropriate cable size for current/load. It is recommended that single stranded cable be used for use with PCB wire connectors.
9. Connect light engine to relevant constant current driver via Molex® connector supplied. Take note of ratings & current to ensure the appropriately rated driver is selected for the system. **Note - Light engines are low-voltage and thus do not require earth. The LED driver may require a permanent earth - It is recommend the the LED drivers manufacturers insurrections are checked prior to installation.**
10. Check all connections are sound and properly insulated. Verify that the modifications are correct and safe.
11. Switch on power and test.

**NOTE: Installation of LED luminaire with modification to the unit, or incorrect fitting in accordance with the above instructions could result in damage/failure of the luminaire, which may invalidate warranty.**

### WARNINGS, CAUTIONS AND OPERATING INSTRUCTIONS

1. Risk of fire or electric shock. The electrical rating of these products are 20-40V DC Constant Current, the installer must determine whether they have 20-40V DC Constant Current at the luminaire before installation.
2. Risk of fire or electric shock. Luminaires wiring, or other electrical parts may be damaged when installing of other hardware. Check for enclosed wiring and components.
3. Risk of fire or electric shock. Kit installation requires knowledge national wiring and electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
4. To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
5. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

WARNING - Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings.

For more information, contact your supplier for further details. Installers should remove any existing wire/luminaire systems prior to installation.

**THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS.**

Luminaire must be operated within an ambient fixture temperature of -20°C to 50°C to comply with all safety and warranty regulations. Ensure sufficient air flow around the for efficient heat dissipation. Failure to do so could significantly reduce luminaire life and/or safety/warranty regulations.

Environmental Protection (W.E.E.E.) – Waste Electrical & Electronic Equipment Regulations (WEEE) requires that any of our products showing this marking (left) must not be disposed of with other household or commercial waste. We do not levy any WEEE disposal charges to its customers for affected WEEE related products. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate any such product from other waste types and recycle it responsibly at your local facilities. Check with your Local Authority, Recycling Centre or retailer for recycling advice. If, when you purchased product, your supplier included a WEEE disposal fee, you should then contact your supplier for advice on their take-back of the product for the correct disposal.

MANUFACTURER'S GUARANTEE - This product is guaranteed in the country of purchase for the number of years as stated from the date of purchase. The guarantee is invalid in the case of improper use, installation, tampering, removal of the G.C. date label, installation in an improper working environment or installation not in accordance with the advised instructions and/or national wiring regulations. Should this product fail during the guarantee period it will be replaced free of charge, subject to correct installation and return of the faulty unit. We do not accept responsibility for any installation costs associated with the replacement of this product. This warranty is in addition to the statutory rights in your country of purchase and reserve the right to alter specifications without prior notice.