



Description – Defender LED IP65 Clean Air
Recessed Modular



Installation Instructions

Luminaire Code(s) – **ADELED**

General Installation Instructions

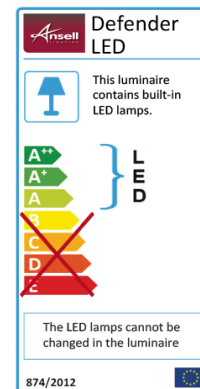
These instructions should be read carefully prior to any installation and retained after completion for further reference and maintenance. Please give these instructions to the building owner/occupier after installation.

Important Safety

1. Before installation, maintenance or lamp replacement, ensure that the mains supply to the luminaire is switched off and the circuit supply fuses are removed or the circuit breaker is turned off.
2. It is recommended that only a qualified electrical contractor carries out the installation of this luminaire and that the luminaire is installed in compliance with the current edition of the IEE Wiring Regulations.
3. The person carrying out the installation is to check and verify that the total load on the circuit, including that of this luminaire does not exceed the rating of the circuit cable, fuse or circuit breaker.
4. Where a luminaire incorporates discharge control gear (inductive load), the circuit capacity and ratings require careful sizing to avoid nuisance tripping of the protective device used in the installation.
5. Where applicable, careful consideration should be taken during installation to ensure that all fixings and/or suspensions are of a suitable size for the luminaire being installed.

Ratings

1. All luminaires are manufactured & tested in compliance with the requirement contained within BS EN 60598 and are CE marked.
2. All luminaires that are of Class 1 construction and that are marked accordingly, **MUST** be earthed.
3. All luminaires are designed to operate at 230Volts AC -6%/+10% = 216Volts to 252Volts. Do not operate outside these voltages.
4. All luminaires are only suitable for applications within their rated Ingress Protection limits as stated.
5. **Max ambient temperature 25°C**



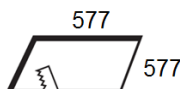
Installation

- Remove the fitting and framed diffuser from the packaging.
- Remove the eight screws that retain the framed diffuser in place.
- This fitting must be connected directly to a Mains Voltage supply.
- Remove the 2 retaining screws and open the hinged gear tray, Terminate the supply cable into the terminal block mounted inside the base of the fitting, having first passed it through the designated hole in the side of the luminaire, ensuring correct polarity is observed and that the luminaire is earthed.
- This luminaire is suitable for both suspended and plasterboard ceilings. Verify suitability with the ceiling manufacturer.
- For Plasterboard Ceiling installation, cut out a square hole 577mm x 577mm.
- Offer the luminaire through the plasterboard ceiling and secure by tightening the Easy Fix Brackets attached.
- Replace the framed diffuser into the fitting making sure that it is perfectly aligned taking care not to damage the neoprene gasket seal. Failure to do this may harm the Ingress Protection of this fitting.
- Restore power supply, switch on and test for satisfactory operation.
- Do not under any circumstances install insulating or other material over the top of this luminaire.

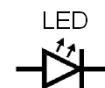
Electrical Connections

Connect as follows:-

LIVE	(L)	BROWN OR RED (switched)
NEUTRAL	(N)	BLUE OR BLACK
EARTH		GREEN / YELLOW



IP65



Maintenance:

1. This Luminaire contains no serviceable parts
2. If replacing the LED Driver, please ensure the driver is the correct physical size for the housing and the secondary output / wattage is correct matching that of the existing LED Driver



Disposal of Electronic Equipment WEEE Directive 2002/96/EC

This product falls within the scope of the Waste Electrical & Electronic Equipment Directive (WEEE), which means the product should not be disposed of as normal household waste. Ensure that this luminaire and lamp is disposed of in accordance with the WEEE Directive. Contact a local Council Waste Dept. Local Amenity Site, or the DTI for further information.
RoHS - All components and materials used in this product are **RoHS** 2002/95/EC compliant.



Blue / Black



Brown / Red