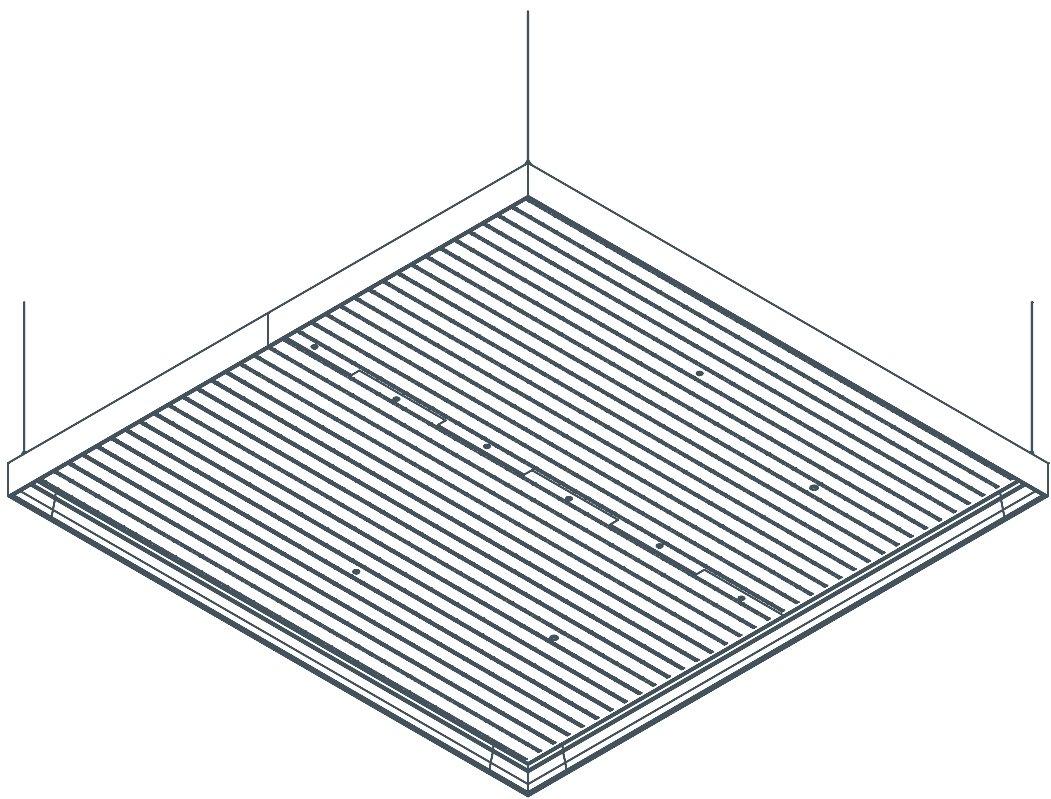


# Lux Plane

# O&M Manual



Protect the environment by not disposing of this product with your household waste. Check with your local authority for recycling advice and facilities.

## Unibox Statement

This manual serves as a comprehensive guide for the operation and maintenance of your Unibox product(s). If you encounter any uncertainties during maintenance procedures, please do not hesitate to contact us where a member of our staff can provide support you and address any questions or concerns you may have.

It is crucial to emphasise that only qualified electrical engineers or Unibox trained professionals should carry out any work on our

products. Additionally, it is essential to isolate all power sources during maintenance to ensure the personal safety of maintenance personnel. We are ready to assist you at any stage of the process. Please feel free to reach out to our team today at 0161 655 2100 or [quality@unibox.co.uk](mailto:quality@unibox.co.uk), or simply scan the QR code provided below.



## Unibox Warranty - English

### Standard Warranty

#### Definitions

*The Company* – United Aluminium Limited and subsidiary companies (including trading styles Unibox and Lumenal).

*The Product* – Equipment purchased from The Company.

*The Component* – Piece of The Product which can be sent for diagnosis.

*Service* – Any additional time or service purchased from The Company for installation.

*The Customer* – The entity that has bought The Product.

#### Statement

The company's products are supplied with a 3-year Warranty. This is the company's commitment to replace or repair the product, free of charge, following any manufacturing defects with the product that may arise after date of invoice.

All components used in our products are tested before they leave our factory to ensure that they are free from defects and are in good working order. All components used are appropriate for the products produced and comply with UK regulatory guidelines and obligations.

In order to fulfil the terms of this Warranty, Customers must have used a qualified electrician to for any works on our product in accordance with BS7671-IET wiring regulations.

#### Defects within first year – UK mainland only

Within the first year, the company will attempt to repair or replace the product free of charge to resolve any defect that can be substantiated as a manufacturing fault. The course of action taken will be at the company's sole discretion. If the fault is not deemed to be a manufacturing fault, the site visit may be subject to charge (see General Terms for site visit charges).

#### Defects within 2-3 years – UK mainland only

For any defects identified in the 2nd or 3rd year, the company will repair or replace a returned product or part that can be verifiably shown to be due to a manufacturers fault. However where return to manufacturer is not possible the Company will carry out a remote diagnostic after the fault report has been completed. If The Company think it is required, a chargeable site visit will be arranged, which will not be chargeable if the fault is found to be a manufacturing issue. The company will carry out a repair or replacement on site. The course of action taken will be at the company's sole discretion. Please refer to Warranty General Terms.

To exercise your rights under this Warranty, the component should be returned to Unibox, Greenside Way, Middleton, M24 1SW by The Customer for diagnosis, repair or replacement.

Any on-going works on the product, should be completed by a qualified electrician in accordance with BS7671-IET wiring regulations.

#### Defects within 2-3 years – UK mainland only

The following terms must be met in order to claim under the Standard Warranty:

1. This Warranty covers products installed and maintained in the United Kingdom only (including Northern Ireland).
2. If the product or service in question has not been paid for in full within the agreed payment terms of the invoice issued, then the Warranty is null and void.
3. Following the repair or replacement of The Product, The Company will continue to honour the Warranty on The Product for the unexpired period of the Warranty.
4. The Warranty is limited to material / component defects only.

5. The Customer will complete and return the Warranty Claim Form to The Company in order for defects to be diagnosed effectively. The Warranty Claim Form will be sent to The Customer on receipt of a warranty claim.
6. If it is not possible to return The Product to The Company thereby necessitating the need to attend the Customers premises, The Company will charge a discounted rate of £200 plus travelling expenses (£1.75 per mile from The Company base to site, including return) per site within the United Kingdom (including Northern Ireland) to attend to any repairs in situ. These costs will only apply if fault is not deemed to be a manufacturing one. Please note: any costs in relation to the access to equipment in years 2-3 is not covered. These will be invoiced separately once a full remedy has been reached.

#### Warranty Exclusions

The Warranty excludes the following:

1. Defects arising from; wilful damage, unusual wear and tear, alteration or modifications undertaken to The Product by either the Customer or any installation team independent to The Company.
2. Damage or other failure arising from installation by another party, extraordinary events (Force Majeure) including, but not limited to; extreme weather events, fire, power failure.
3. If The Company attends The Customer's premises and the repair is found to be outside of the above Warranty terms but within the exclusions (E.g., non-manufacturing fault) all labour, travel and expenses costs will be charged to The Customer.
4. Alterations made to The Product, so that it is not used for the purpose which it was intended.

#### Disclaimer

Damaged goods should be reported to [quality@unibox.co.uk](mailto:quality@unibox.co.uk) within 72 hours of receipt of goods.

The Company will not be held responsible or liable for any expenses or consequential loss or damages resulting from defective products with liability limited to the terms of the Warranty.

The Company will not be held responsible for any damage or loss arising from any information (including but not limited to drawing, design or specification) provided by The Customer.

The Company will not be liable for any harm to goods, individuals or property on the Customer's premises.

The Customer's statutory rights are not affected by this Warranty.

## Cleaning and Maintenance Procedures

### Product Materials

#### Aluminium – Anodised / Powder-coated

Both anodised and painted surfaces should be cleaned using a few drops of mild liquid detergent (such as washing up liquid) in a bucket of lukewarm water. The cleaning solution should be applied using a non-abrasive cloth, sponge or brush. Avoid the use of strong acid or alkali cleaners.

#### Fabrics

It is recommended that handlers wash their hands before handling fabrics as to remove all surface oils from the skin and prevent the attraction of dirt, dust and stains. Whilst not necessary wearing cotton gloves during display setup and tear-down can provide added protection against exposure to skin oils.

When cleaning the tension fabric, ensure that it is removed from the frame and is away from any electrical equipment that may get wet during the cleaning process. For spot cleaning, diluted mild liquid detergent such as washing up liquid or a mild cleaning wipes to target small, easy to remove stains such as grease or dirt. To prevent the stain from bleeding outward, always start by working from the outside in.

For a total clean, tension fabrics, like many other everyday fabrics can be machine washed. We recommend to use cold water using a mild preferably liquid washing detergent. An alternative would be to handwash the graphic panels using a mild detergent.

When the wash is finished, hang the sheet of fabric up to air dry naturally. Never expose your graphic panels to dry heat, such as a clothes dryer or hair dryer.

When packing away tension fabric, ensure it is rolled rather than folded with the graphics facing inward, to prevent creasing and cracks from forming within UV coated fabrics.

Store fabrics in a dry, temperature-controlled space away from direct sunlight. The air temperature in your storage facility should always remain between 40 and 80 degrees Fahrenheit. Exposure to high temperatures can cause moisture build-up, leading to mildew or watermarks, and exposure to extreme low temps can cause the fabric to become brittle.

Ensure that fabrics are 100% dry before storing. If you've recently washed or spot-cleaned your fabric skins, ensure that they're completely dry before packing them away to prevent mould growth.

#### LEDs

For dusty or slightly dirty LEDs, simple dry cleaning is usually sufficient. Ideally, cleaning by means of compressed air (e.g. central supply or spray can) is recommended here. The LEDs and/or the board are blasted with clean air. If compressed air from a central supply is used, care should be taken that the air is purified. If this is not the case, the opposite effect may be achieved, e.g. additional contaminants such as oils may be sprayed onto the components or the board. The simplest method is cleaning the LEDs with a clean, soft, lint-free, dry cloth (cellulose or linen) or a clean brush.

#### Driver Cabinets/Units

PLEASE NOTE: driver and driver cabinets should only be accessed by qualified electricians.

If driver failure is suspected contact Unibox directly.

Cabinets should be cleaned regularly to remove dust and other loose debris. Cabling and other connections must be avoided.

### Failure Report

Please get in touch with the below information if there is a failure or maintenance issue.

**Site name and address:**

**Contact name:**

**Contact number:**

**Description of failure:**

**Any images of failure:**

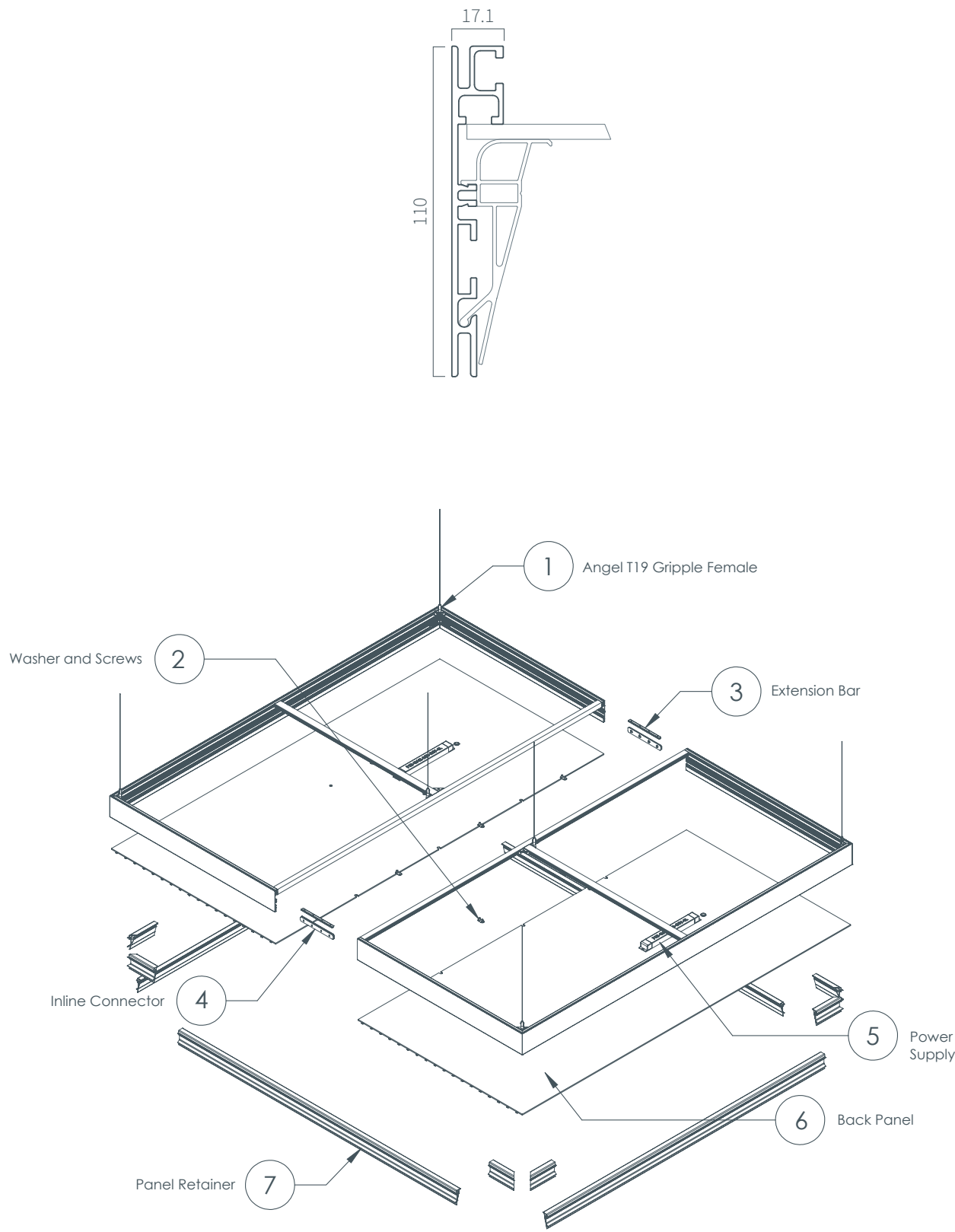
Please use the rough guide below for potential reasons for a failure. (Use as a guide only reasons may vary)

**1. Individual lightpanel not illuminated:** This would most likely be a lightpanel failure or connection under the panel.

**2. Group of 4 tiles not illuminated:** This would most likely be a DALI controller failure or connection at the cabinet.

**3. Whole section of floor not illuminated:** This would most likely be a driver failure or a fuse in the driver cabinet has tripped.

Appendices - 1.1 Technical Drawings



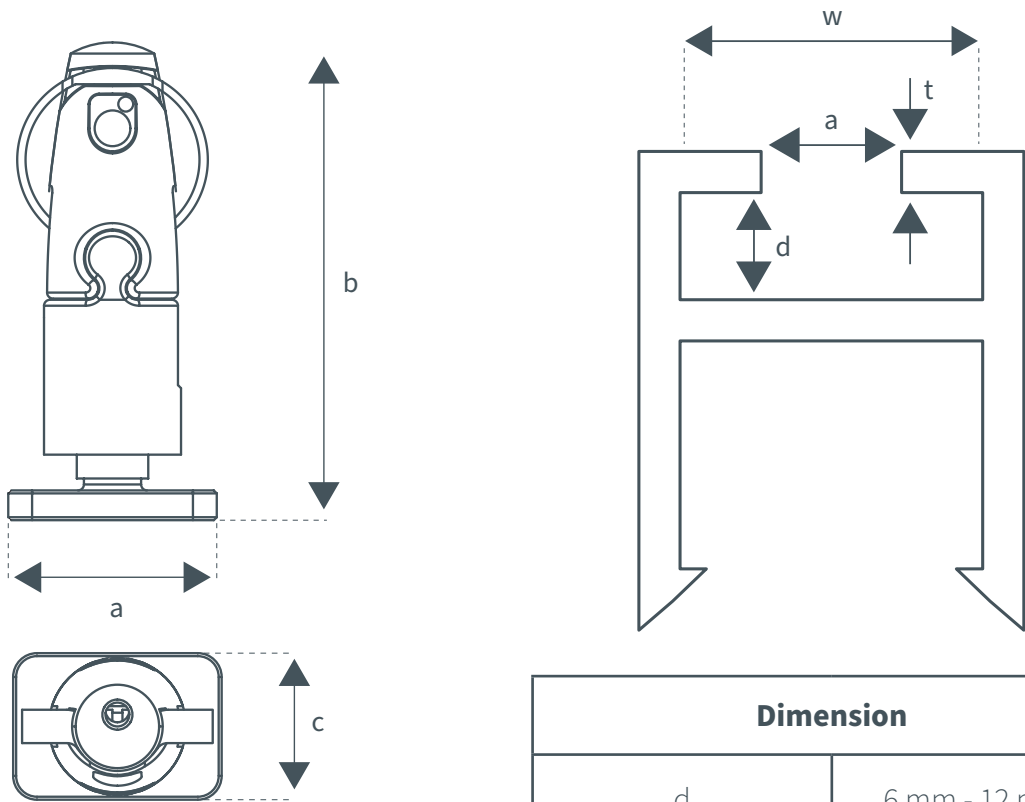
Appendices - 1.2 LED Data

Lux Plane - Output Calculations					
CCT	llm/sqm (avg)	wattage/sqm (avg.)	llm/w (avg)	CRI*	SDCM**
3000	5458	77	71	90+	3 Step
4000	5765	77	75	90+	3 Step
2200-6500	4592 - 5820	77	60 - 75	90+	3 Step

\*95+ available upon request.  
\*\*2 Step available upon request.

Appendices - 1.3 Component Data Sheets

Angel T 19 gripple Specification:



Dimension	
A	17.5 mm
B	40.1 mm
C	12.3 mm

Dimension	
d	6 mm - 12 mm*
a	min 6.0 max 9.5mm (no washer) max 12.0 (with washer)
w	12.4 mm - 19 mm
t	Max 3.75 mm without the washer, Max 2.35 mm if washer is used.

\* Max 9.5 mm without washer

SUBMITTAL INFORMATION

**Safe Working Load:**  
Max. Load rating of this product in a vertical suspension = 15kg

**Safety Factor:** 5:1

**Material:**  
Housing - Zinc Alloy (EN 12844 zp2)  
Roller - Brass (BSEN 12164)  
Spring - Acetal (POM)  
Plating - Bright Nickle Plating (BS 4758)  
Washer - Nicke plated steel  
Foot - Zinc plated steel

For more information visit: [www.gripple.com](http://www.gripple.com)

## **Manufacturer Contact Information**

**Unibox  
Greenside Way  
Middleton  
Manchester  
M24 1SW**

**Telephone: 0161 655 2100  
Fax: 0845 277 6001  
Email: [quality@unibox.co.uk](mailto:quality@unibox.co.uk)  
Website: [lighting.unibox.co.uk](http://lighting.unibox.co.uk)**