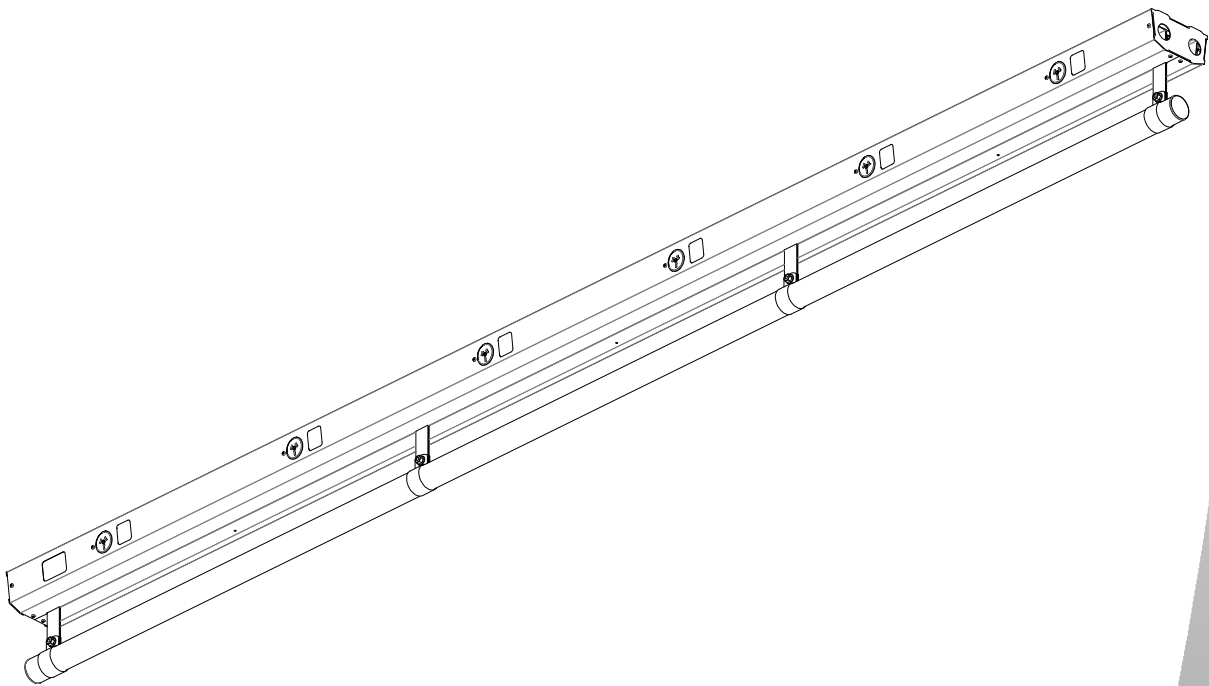




Un-wired Lighting Bar

JLX-LITE



USER GUIDE

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DOCUMENT CONTROL

Version	Revision Description	Date	Author	Checked	Approved
1.0	First Release	21/2/2011	David Hancock	Graeme Hill/ Andrew Mathieson	

COMPLIANCE

This product conforms for use in Australia/New Zealand to the requirements of the following standards:

Standards
AS/NZS3000-2007: Electrical wiring rules

DISCLAIMER

Information contained in this manual is subject to change without notice and does not represent a commitment on the part of the vendor. JANDS Pty Ltd shall not be liable for any loss or damage whatsoever arising from the use of information or any error contained in this manual.

It is recommended that all service and repairs on this product be carried out by JANDS Pty Ltd or its authorised service agents.

JANDS JLX-LITE lighting bars must only be used for the purpose they were intended by the manufacturer and in conjunction with this operating manual.

JANDS Pty Ltd cannot accept any liability whatsoever for any loss or damage caused by service, maintenance or repair by unauthorised personnel, or by use other than that intended by the manufacturer.

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SAFETY PRECAUTIONS

The following information is for your Personal Safety. Please read carefully.

	<p>DO NOT attempt to lift more than the rated capacity of the lighting bar</p>
	<p>DO NOT ALLOW the entry of liquids into the lighting bar</p>
	<p>DO NOT use substitute parts</p>
	<p>DO NOT operate the machine while under the influence of drugs or alcohol</p>
	<p>DO NOT operate the machine while excessively tired or while other noisy work is occurring on the stage or in the auditorium</p>
	<p>Ensure that the Isolator is OFF before undertaking any works.</p>
	<p>Be aware that the Control Isolator DOES NOT isolate the unit electrically – ALWAYS disconnect the lighting bar from the electrical supply before undertaking any electrical works</p>
	<p>DO NOT connect this device to an electrical source that is not specifically designed for the purpose.</p>
	<p>Installation of the lighting bar should only be undertaken by qualified and trained persons.</p>
	<p>Wiring of the lighting bar should only be undertaken by licensed electrical contractors in accordance with relevant state or territory regulations.</p>

1 INTRODUCTION

The Jands JLX-LITE is an un-wired lighting bar system designed to be wired on-site by a licensed electrician.

The Jands JLX-LITE is suitable for fixed applications only.

The Jands JLX-LITE is designed for indoor use ONLY and is not protected against the ingress of moisture.

1.1 Features

The JLX-LITE assembly consists of:

- Base/mounting plate (includes 230V 10A outlets) which includes provisions for cable-ties.
- Sheet metal cowling dress cover - removable for installation and service access;
- Aluminium 48.4mm OD pipe, set length (industry standard).

1.2 Lighting Modules

- 2m Lighting Bar, 4 x 230V 10A outlets, 2 x ELV knock-out blanks. (JND-JLXL20M4)
- 3m Lighting Bar, 6 x 230V 10A outlets, 3 x ELV knock-out blanks. (JND-JLXL30M6)
- The duct is segregated into 2 wiring compartments; Low Voltage (LV) and Extra Low Voltage (ELV).
- The LV compartment is fitted with single phase surface mounted unswitched 230V/10A socket outlets. Each socket outlet has earthing points to the housing.
- The ELV compartment is provided with knock-out provision for DMX & Ethernet.
- The JLX-LITE is designed to be wired and installed by a licensed electrician to conform to AS3000:2007.

1.3 Mounting Options

- Surface mounted to ceiling
- Suspended from threaded rods
- Use of standard Unistrut (or equivalent) hardware
- Multiple mounting fixing centres of 300, 450 and 600 mm centres
- Adhesive numbers are provided to allow sequential numbering of circuits

2 DIMENSIONS & LAYOUT

2.1 Dimensions & Features

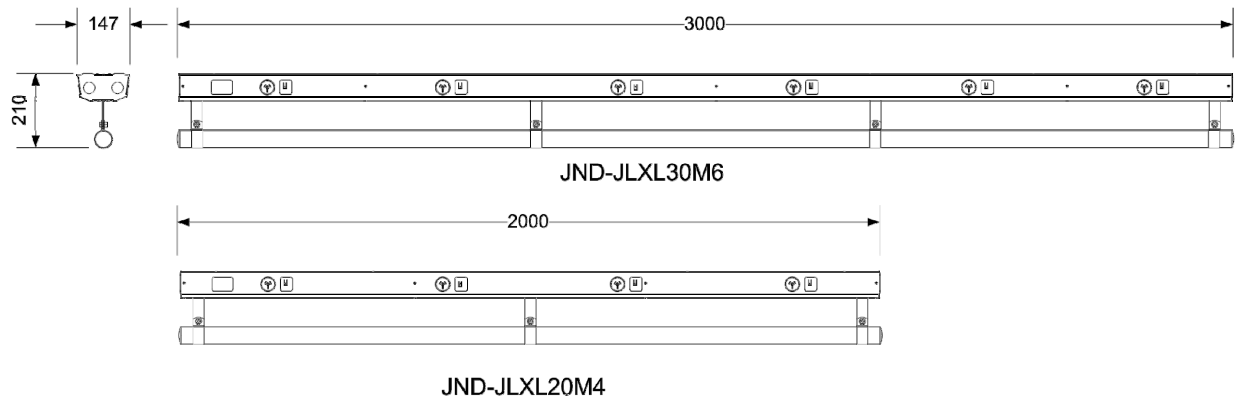


Figure 2.1 – Side and End Elevation

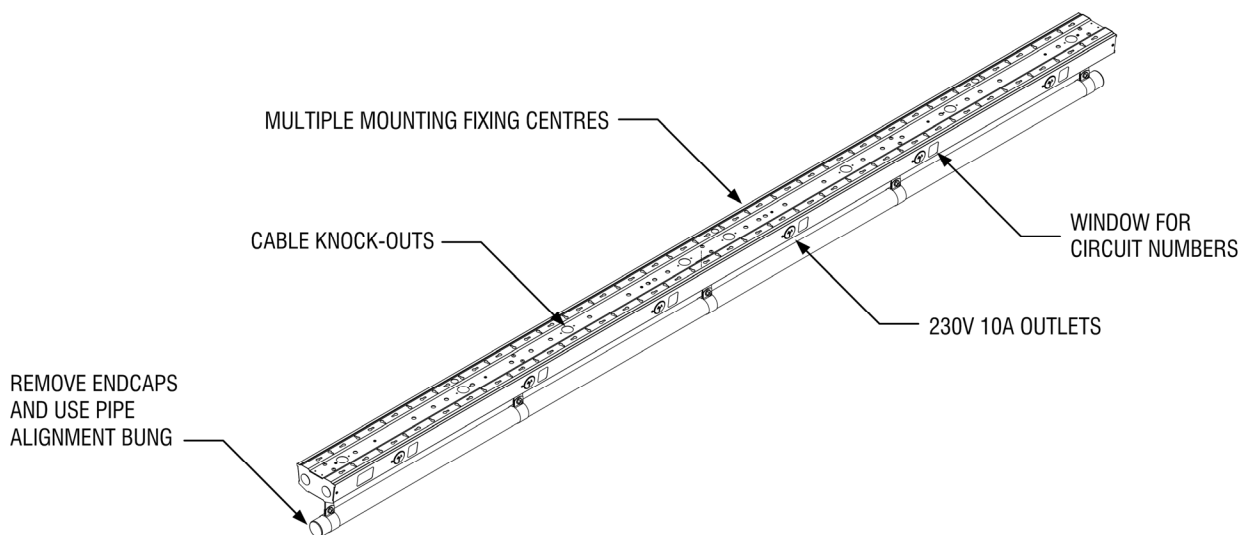


Figure 2.2 – Component identification

3 MECHANICAL ASSEMBLY

3.1 Initial Inspection


The Jands JLX-LITE Lighting bar should be inspected prior to installation. Any dents, cracks or damage should be noted and Jands Pty Ltd should be notified immediately if the lighting bar appears to have suffered damage in transit.



DO NOT INSTALL OR OPERATE IF DAMAGED.

3.2 Unpacking the JLX-LITE

The Jands JLX-LITE as shipped requires some assembly before use. The following instructions demonstrate the correct method of assembly.



CAUTION

Failure to assemble the JLX-LITE correctly may result in its load bearing capacity being compromised, creating a risk of injury or death

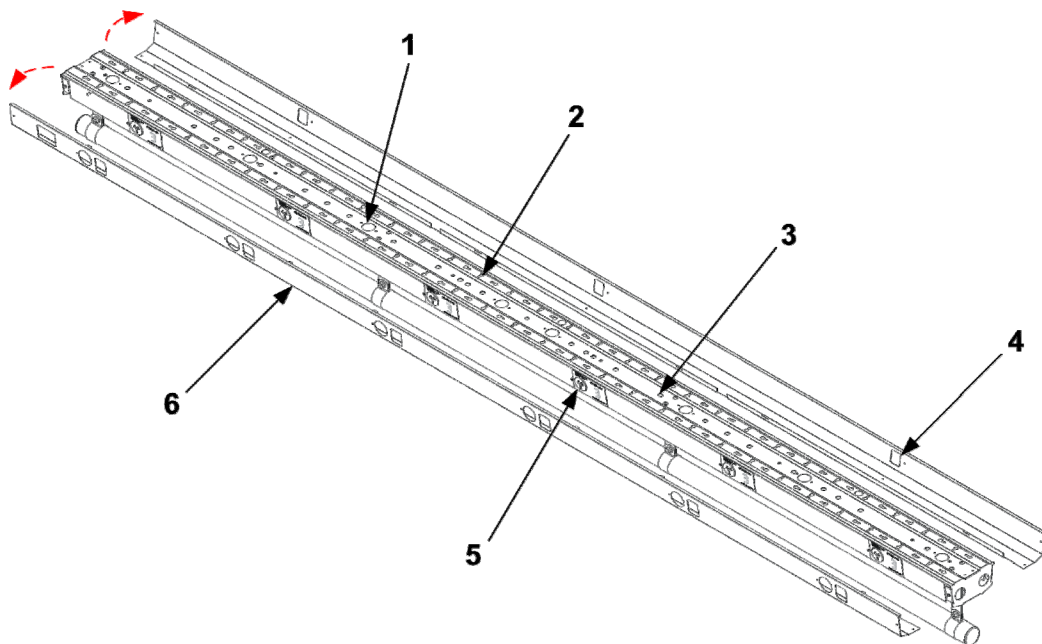



Figure 3.1 – Exploded View



WARNING

JLX-Lite installation is the responsibility of the installer as it is out of Jands control. The following guidelines are essential to a safe system.

3.3 Installing the JLX-LITE

The Jands JLX-LITE base plates feature an array of mounting holes to provide the installer with a number of possibilities for mounting.

It has (diameter 5mm) holes for screwing the base plate into an overhead supporting member and (diameter 12mm) holes for attachment to threaded rod droppers.

LEGEND	
1.	Cable Entry Holes
2.	Mounting Holes (5mm)
3.	Thread Rod Holes (12mm)
4.	ELV knock-out blank
5.	10A Circuits
6.	Side Dress Panel

- The JLX-LITE is supplied unwired. All wiring to be completed by a licensed electrician and must comply with the electrical safety requirements of the relevant Australian Standards. ALL earthing points must be tested.
- Carefully unpack JLX-LITE assembly. Remove all protective wrapping prior to use.
- Remove side dress panels.
- If threaded rod droppers are to be used as a mounting method, a minimum of 3 rods evenly spaced must be used. Preferably more than 3 rods should be used.
- Run power cables into the lighting compartment and connect each circuit.
- If using the ELV compartment, remove knock-out blank and fit industry standard fittings.
- Mount base plate using suitable hardware intended for the task. Static fixed installations only. Do not hoist.
- Indoor use only.
- Replace side dress panels.



It is the responsibility of a licensed electrician for earthing this product. The cover should be earthed using the screws provided with serrated washers.

It is the responsibility of the installer to ensure that the supporting structure is capable of supporting both the mass of JLX-LITE product in addition to its rated load.

It is the responsibility of the installer to ensure that the quantity and type of fasteners used are suitable and adequate for securing the JLX-LITE onto the supporting structure such that it will safely support both the mass of JLX-LITE product in addition to its rated load.

The JLX Lite has been designed for horizontal installation only (i.e. where the light mounting pipe is located directly underneath the base plate).

The JLX Lite is not rated as a lifting bar under AS4991.

4 WORKING LOAD LIMITS

4.1 Rated Capacity

The working load limit of each of the JLX-LITE modules is outlined in the following sections. The rated capacity in each case is dependent on the number and location of the overhead pickups and underhung supporting clamps.



Be sure to check the suitability of the supporting structure that is intended for the JLX-LITE against the rated capacity of the lighting bar

JLX-LITE	Max Single Point Load	Max UDL	WLL
2m lighting bar	50kg	50kg/m	100kg
3m lighting bar	50kg	50kg/m	150kg



WARNING

DO NOT EXCEED THE LOAD RATING

4.2 Definitions of Load

4.2.1 Rated Capacity

The rated capacity of a JLX-LITE lighting bar is also called its working load limit. This is the maximum overall load that the lighting bar is permitted to carry. It can be made up of point loads and distributed loads.

4.2.2 Maximum Point Load

This is the maximum individual load that can be applied to a JLX-LITE.

An example would be a single light attached to the underhung Pipe. Refer to Figure 4.1.

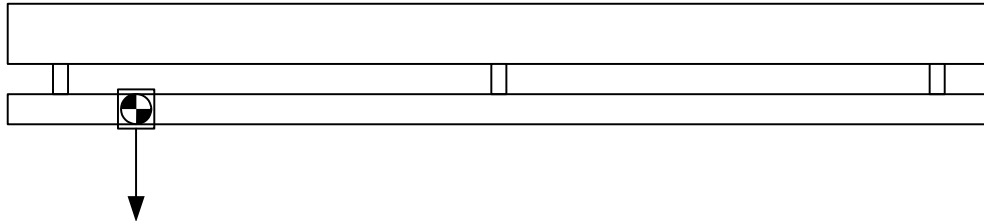


Figure 4.1 – Maximum Point Load

4.2.3 Maximum Uniformly Distributed Load (UDL)

This is the maximum load that can be supported across a span of 1 metre of underhung JLX-LITE Pipe. Refer to Figure 4.2.

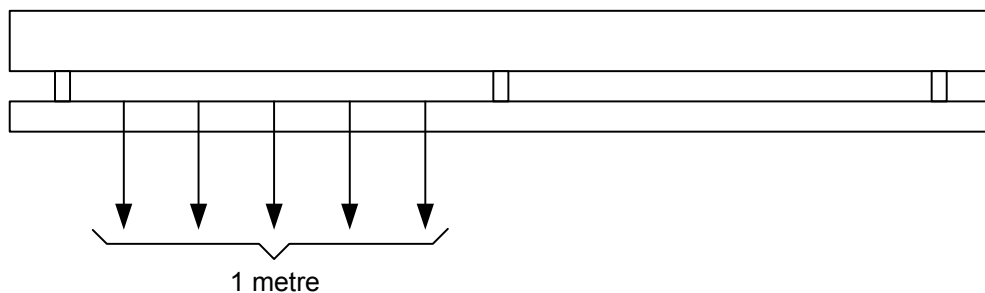


Figure 4.2 – Maximum Uniform Distributed Load (UDL)

5 TECHNICAL DATA AND SPECIFICATIONS

5.1 Mechanical Specifications

PARAMETER	VALUE	
Rated Capacity (Working Load Limit)	Varies. Refer to section 4.1.	
Maximum Point Load	50kg	
Distributed Load	50kg/m	
Length	20M4	2000mm (Duct) 2000mm (Bar)
	30M6	3000mm (Duct) 3000mm (Bar)
Depth	146mm	
Height	207mm	
Net Weight	20M4	9kg
	30M6	12kg
Degree of Protection	IP2X	
Classification	AS3000:2007	
Series No.	JLX-LITE	

Table 5.1 – Mechanical Specifications

5.2 Electrical Specifications

PARAMETER	VALUE	
Number of Circuits	4	20M4
	6	30M6
Rated Voltage (U_N)	230V	
Rated Current (I_N)	10A	
Rated Frequency	50Hz	
Conditional Short Circuit Current (I_{CC})	0.58kA	
Internal cable cross-section	2.5mm ²	

*Output only

Table 5.2 – Electrical Specifications

6 INSPECTION & MAINTENANCE

The inspection and maintenance logs on the following pages should be copied. Ensure that the Serial Number is recorded on these logs for each Lighting bar before copying.

Inspection and maintenance should be carried out and logged at the intervals indicated.

These records should be kept with this User Guide for future reference.



It is the owners' responsibility to ensure that inspection and maintenance is carried out by an appropriately qualified person.

6.1 Mechanical Testing

Installations where the JLX-LITE is installed over persons requires regular inspections.

Appropriately qualified persons must carry out such inspections.

These regular inspections should include, but not be limited to: tagging and inspection of shackles, clevises, clips, clamps, split pins and mousing wires and visual inspections of wire ropes, chains and other lifting gear.

Attention is drawn to the fact that certain items of lifting, rigging and machinery systems have mandatory requirements for inspection and testing.



WARNING

DO NOT ALLOW the entry of liquids into the Lighting bar
DO NOT EXCEED the load limits as detailed in Section 4

6.2 Electrical Testing

The Jands JLX-LITE is supplied as a wiring enclosure for installation by a licensed electrician. The installation of the lighting bar should be carried out and tested to AS/NZS 3000:2007.



When testing as an earthed appliance, the socket outlet may be required to have a load connected for the correct operation of the testing device.

6.3 Installation Record

This installation record should be filled out and signed by the person installing the lighting bar(s).

Where more than one person has installed the lighting bar(s), the foreman, supervisor or similar person responsible for the works should fill out and sign this record.

Installation Record	
Type	Jands JLX-LITE
Serial No(s):	
Number of Lighting bars	
Installed by (Company)	
Installation Date	
Installer's Name	
Signed	
Dated	

6.4 Annual Equipment Inspection/Maintenance Log

Annual Equipment Inspection/Maintenance Log			
Type: Jands JLX-LITE			
Number of Lighting bars:			
Serial Number(s):			
Inspection Date:			
Inspected/Maintained by (name):			
Action	Pass	Fail	Sign
Inspect the chassis for evidence of impact damage or physical abuse			
Inspect electrical outlets for evidence of wear and damage			
Inspect mains cable and plugs for evidence of wear and damage			
Inspect all screws, nuts, bolts for correct tightness and physical integrity			
Inspect the visible portions of the central extrusion for distortion or cracks			
Inspect attachment clamps, brackets and standoffs for distortion or damage			
Perform safety tests (test & tag) to AS3760	Permit Number		

6.5 Fault Finding

FAULT SYMPTOM	POSSIBLE CAUSE	REMEDY
Fixture lamp not working	Faulty lamp	Replace lamp
	Faulty fixture cable	Replace fixture cable
	Faulty Socket/plug	Repair by Licensed Electrician
No power at socket	Circuit breaker tripped	Reset circuit breaker
	Incorrectly patched multicore	Check patching
	Dimmer level at zero	Alter dimmer level
	Faulty multicore	Repair by Licensed Electrician

6.6 Service Contact Details

NOTE

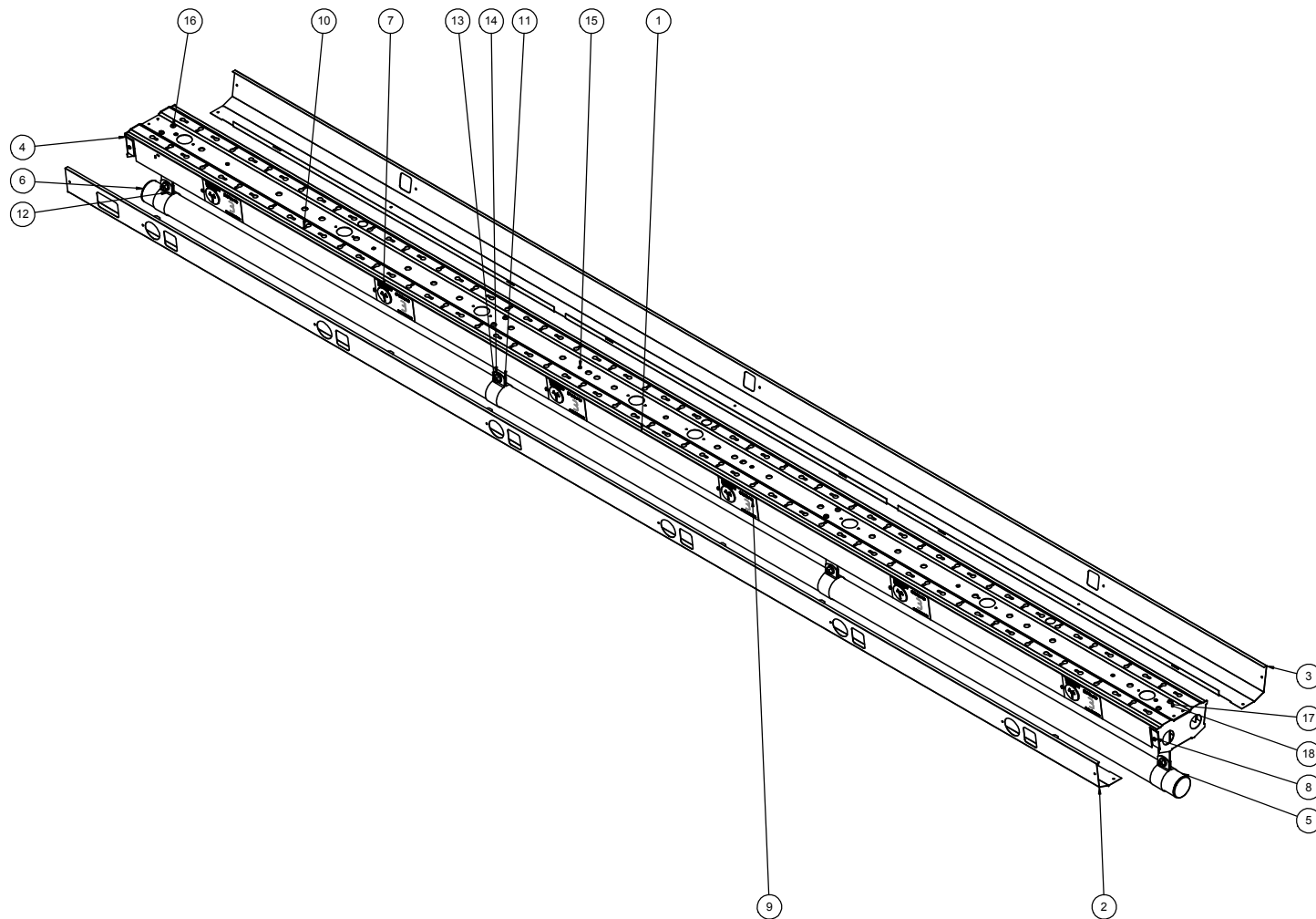
Contact your authorised JANDS Distributor for repairs or servicing.
In Australia refer all repairs to an authorised JANDS service agent or
return the faulty unit in suitable packaging to:

JANDS Pty Ltd
Service Department
Building C, 40 Kent Rd
MASCOT NSW 2020
P: +61-2-9582-0909
F: +61-2-9582-0999

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**APPENDIX A –
GENERAL ASSEMBLY DIAGRAM**

ITEM NO.	QTY.	DESCRIPTION
1	1	JLX LITE BASE PLATE
2	1	JLX LITE LV COVER
3	1	JLX LITE ELV COVER
4	2	JLX LITE END CAP
5	1	ALU PIPE 48.41 OD x 3000mm LONG
6	2	PIPE END CAP
7	6	ETD AC 02F SOCKET 10A 240V
8	20	6-32 X 3/8 PAN PHILLIPS TYPE 23 ZINC
9	6	JLX LITE COMPLIANCE LABEL
10	1	JLX LITE DIVIDER
11	4	JLX LITE PIPE BRIDGE
12	4	EZYSTRUT E1 LDUTY CLAMP
13	4	HB M8 x 16
14	4	FN M8
15	8	3.3 POP RIVET
16	8	BHHS-M6 x 10
17	8	PLAIN WASHER (PW) M6
18	8	HNP M6



A	ORIGINAL ISSUE	GB	GB	22/02/11
#	Description	Drawn	Chk'd	Date
Revisions				
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<small>IR: 009855.stl/dwg</small>		<input type="checkbox"/> Internal Use Only <input type="checkbox"/> Issued for: SAMPLE		
Drawn	GB	STANDARD MANUFACTURED PRODUCT		
Dept	ERG	LIGHTING BAR		
Date	22OCT10	JLX LITE		
Approved		GENERAL ARRANGMENT		
Scale	1:10	Sheet # of	1 - 1	Job #
		Drawing #	009855	Rev
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