

**PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR MAINTAINING THIS EQUIPMENT. THIS DATA SHOULD BE USED AS A GUIDE ONLY. GOOD ELECTRICAL PRACTICES SHOULD BE FOLLOWED AT ALL TIMES. MUST ONLY BE INSTALLED BY A LICENSED ELECTRICIAN.**

## Installation Instructions for Futchu Luminaires

### 1. Specification

Type of Protection:	Class 1 Luminaire
IP Rating:	IP20
Nominal Voltage:	230-240V
Nominal Frequency (Hz):	50
Rated Maximum Ambient Temperature	35°C



Suitable for direct mounting on flammable surfaces.

### 2. Approvals

The C-Tick marking of this product applies to AS/NZS CISPR15:2002 "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment"

This product is designed to conform to AS/NZS 60598 "Luminaires, general requirements and tests"

### 3. Application

General purpose linear fluorescent troffer available in T-bar, plaster and surface mounting versions. A range of louvre options are available to suit different applications.

### 4. Storage

Luminaires are to be stored in cool dry conditions preventing ingress of moisture and condensation

### 5.0 Installation and Safety

This product when operated under normal use shall provide years of service with minimal or no maintenance needed. However, care is expected in installing this product.

The health and safety requirements of Workcover shall be met.

Handling and electrical work associated with this product is to be in accordance with AS/NZS3000:2000 "Australian/New Zealand wiring rules"

The luminaires are Class 1 and should be effectively earthed.

Certification details on the rating plate must be verified against the application requirements before installation. The information in this leaflet is correct at the time of publication. The company reserves the right to make specification changes as required.

### 5.1 Tool requirements

Installation tools may include a 3mm flat blade insulated screwdriver, insulated pliers, knife and wire strippers or cutters.

### 5.2 Electrical Supplies

Always ensure the correct supply voltage is as the rating label on the product. Slight variations of the nominal line voltage within the range of +6%/-6% are expected, although luminaires should not be operated continuously at more than +6%/-10% of the rated supply voltage of the control gear.

### 5.3 Lamps

All lamps used are of a standardised type, as stated on the lamp replacement label. This label is located so as upon replacing the lamp the label is clearly visible. Do not replace lamps with different wattages or types other than indicated on the lamp replacement label. There are no preferences between make and colour, unless specified on the lamp replacement rating.

Care must be taken to fit the correct replacement lamp in order to preserve the certification conditions and obtain the designed photometric performance. Lamps should be replaced shortly after they do not light.

**On twin T5 lamp luminaires, always place the lamp labels at the same end of the fitting.**

**For dimming ballasts – run lamps at 100% output for 100 hours before dimming.**

### 5.4 Mounting

Luminaires should be installed where access for maintenance is practical and in accordance with any lighting design information provided for the installation.

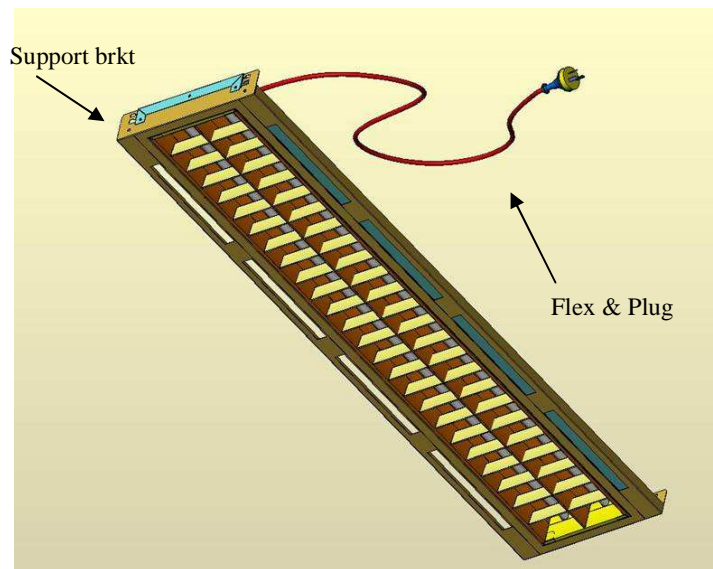
### 5.5 Installing T-bar luminaires F5.....

- All T-bar luminaires are fitted with a flex and plug. Louvred fittings are supplied with a protective film. (Do not touch louvre with bare hands or operate with film in place.)
- Support brackets suit 38, 43 and 50mm primary rails. Fold out support brackets at each end if required. See point (g)
- Lift luminaire into ceiling cavity, insert plug into power socket.
- Lower luminaire onto T-bar rails, handle fitting by the face trim only, do not touch the louvre.
- Remove plastic film after all building work is completed.
- Louvres are removed by pulling down gently on the end cross blades (remove one end at a time by lowering the louvre to the first stop). Pull straight down, do not twist the louvre. The spring acts as a hinge and supports the louvre while changing lamps.
- Fittings need to be installed in compliance with T Rail manufacturers installation instructions.

### 5.6 Installing Plaster luminaires F5P.....

Plaster recessed luminaires come supplied with a Plaster Master frame.

- Separate the frame from the body of the luminaire.
- Cut out the correct hole size for your fitting.
- Fit the Plaster Master frame as per the instructions supplied.



- d) Insert the luminaire diagonally into aperture and lower it down flat onto the inside face of the frame.

**Standard Plaster Cut out Sizes**

Fitting	Dimensions LxW
1&2 x 14/24W	610 x 310
3&4 x 14/24W	610 x 610
1&2 x 28/54W	1210 x 310

Custom designed project luminaires may have non standard cut out sizes.

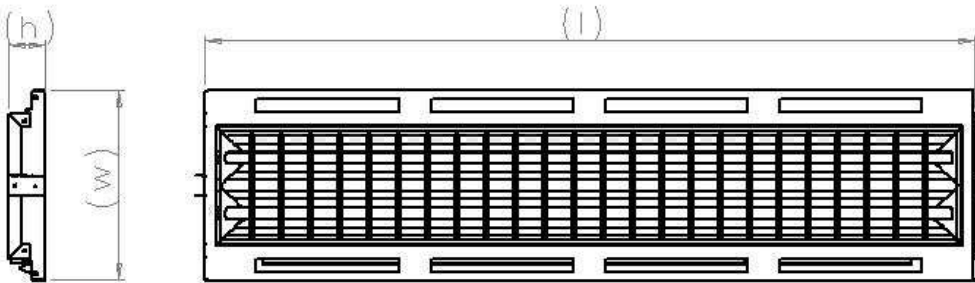
**5.7 Installing Surface Mounted luminaries F5S.....**

- a) Surface mount luminaires must be hard wired into the supply. Remove louvre or lens panel.
- b) Feed supply cable through entry hole as fitting is located onto ceiling.
- c) Fix the body onto the mounting surface with appropriate screws or bolts (not supplied).
- d) Install the conductors into the appropriate terminals. Do not strip the insulator excessively, 1mm bare conductor outside the terminal is a maximum. Any unused terminal should be fully tightened. After cabling is complete make a final tightness and connection check.
- e) Refit louvre or lens. Lamps must be of the correct type as specified by the lamp replacement label and must be properly inserted and locked.

**5.8 Cabling**

All cabling must meet the current draw requirements for the installation. The current draw for individual fittings are shown at the bottom of this document. DO NOT MEGGER TEST BETWEEN A & N – Tie A to N and Megger to earth only.

**6.0 Nominal Dimensions**



Fitting	Dimensions lxwxh	Weight
1x14/24W	592 x 294 x 58	2.5
2x14/24W	592 x 294 x 58	2.7
1x21/39W	892 x 294 x 58	3.6
2x21/39W	892 x 294 x 58	3.8
1x28/54W	1192 x 294 x 58	4.5
2x28/54W	1192 x 294 x 58	4.7
1x35/80W	1492 x 294 x 58	5.7
2x35W	1492 x 294 x 58	5.9

**7.0 Routine Maintenance**

The supply must be isolated before opening the luminaire. Visual inspection should be carried out at a minimum of 12 monthly intervals and more frequently if conditions are severe. If the diffuser needs cleaning, use a damp cloth to wipe the diffuser.

**Warning** – Dimming luminaires may have a dual supply.

**8.0 Electrical Fault finding and Replacement**

The supply must be isolated before opening the luminaire. In most instances any electrical faults are simple, namely loose or broken connections, unserviceable lamps or open circuit control gear. If all connections are verified to be correct, the products environment may be having an adverse effect to the components. If this is the case please contact your supplier for a more suitable replacement.

Any fault finding must be done by a fully qualified electrician and, if carried out with the luminaire in place, under a permit to work. With replacement of any part ensure that wires and connections are checked, and any wire sleeving refitted and all wires are fixed into their original positions.

**9.0 Fuse Ratings**

Fuses can be fitted to all Pierlite products on request. Switchboard circuit breaker ratings must take into account inrush currents to electronic components which can be greater than 2 times the nominal current. Pierlite can advise of acceptable breaker ratings for special and multi-configuration luminaires.

Rating	Electronic Ballast		Rating	Electronic Ballast	
	Nominal Current	Power Factor		Nominal Current	Power Factor
1x14	70mA	1	1x54	260 mA	1
2x14	130ma	1	2x54	520 mA	1
1x24	120mA	1	1x35	170 mA	1
2x24	220mA	1	2x35	340 mA	1
1x28	130mA	1	1x80	370 mA	1
2x28	280mA	1			