



User Guide



UFO PICCOLO LED TRACK LIGHTING SYSTEM

Rev. D1 UK

This guide contains important safety information and installation instructions.

Please read fully before installing, operating or performing any maintenance on the product.

02

Introduction & Safety

Thank you for purchasing the UFO Piccolo Lighting System. This user guide contains important information and should be read fully before any installation work commences. Please keep for future reference.

UFO Piccolo is a discrete track lighting system which is fitted with tiny spotlight fittings which output either 3000K or 4000K light.

A Piccolo system consists of a length of track fitted with a number of spotlight luminaires, which is connected to the specified control gear. The track can be specified in rectangular, triangular or a round profile.

The spotlights are dimmable using a UFO supplied dimmer/driver system. Eclipse supports dimming via a number of industry standard methods, including DALI, 0-10V and bluetooth and can also be controlled manually via potentiometers.

Important

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product, its component parts and the hazards involved.

Electrical wiring and connection must be carried out by a suitably qualified person observing all local and statutory electrical regulations.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

The Piccolo system should only be connected to a class 2 or class 3 SELV power supply unit.

Important Safety Information

Risk of fire, do not install insulation within 75mm (3 inches) of unit or above unit in such a manner to entrap heat.

The Piccolo LED fittings operate on a low voltage constant current electrical supply. Constant current and constant voltage LEDs cannot be intermixed on the same driver. Refer to the specific section of this guide and any guides supplied with the driver unit for wiring and connection guidance.

Connecting constant current LED fittings to a driver with excessive minimum voltage output will result in catastrophic damage to the LED devices within these fittings. Always check the minimum voltage output voltage of the driver and ensure that, based on each LED using 3.2V, an adequate number of fittings are connected prior to powering up the system.

Hot plugging constant current LED fittings to a driver may result in catastrophic damage to the LED devices within the fittings. Always ensure that the driver is powered down before adding or removing a constant current fitting.

These LED fittings are suitable for indoor / dry area use only and must not be installed in damp or wet locations.

UFO splitters are supplied with removable continuity links. Retain these links for future use. See page 5 for further information.



$t_a 40^\circ\text{C}$



04 Model Overview

Systems Covered In This User Guide

Product Type	Description
UFO Piccolo Rectangular	Rectangular profile track
UFO Piccolo Triangular	Triangular profile track
UFO Piccolo Round	Round profile track

Round and rectangular profile Piccolo systems are generally supplied fully built however the triangular profile option will require a little assembly after it has been mounted to the surface.

See the appropriate sections in this user guide for more details.

Track Types and Parts

Piccolo extrusion is manufactured from either rectangular, triangular or round profile aluminium which is available in either anodised black or anodised silver.

Extrusion can be supplied in lengths upto 2800mm.

Power is supplied via one end of the extrusion.

Power is hardwired to each spotlight in the track, however tracks can be individually disconnected from the driver or splitter (in the case of multi-track systems) to provide ease of installation.

The front face of the track is fitted with LED spotlight luminaires. A maximum of 16 fittings, spread over a maximum of 12 tracks can be connected to each driver/dimmer.

A complete LED Piccolo system as supplied by UFO typically consists of:

- Between 1 & 12 tracks, fitted with a maximum of 16 spotlights
- A 12 way series splitter (if more than 1 track)
- A driver unit with control options as specified on order

Series Splitter

The series splitter maintains the constant current circuit at each splitter channel.

After the LED fittings have been installed (see opposite) each of them must be connected to an output port on the series splitter.

Unused output ports on the series splitter must be fitted with the supplied continuity link plugs. Failure to terminate each port with either an LED fitting or a link plug will result in an incomplete circuit and loss of light output.

Drivers

UFO offer a selection of constant current drivers for our LED fitting range. The unit specified will depend on the control options required. Consult the user guide supplied with the driver for all information regarding the driver unit.

If you are using a constant current driver which has not been supplied by UFO the following specification must be followed. UFO will accept no responsibility for loss or damage caused by using a driver which has not been approved by us.

- 150mA output
- Rated as class 2 or class 3 SELV
- UL / CE approved (territory dependant)
- Short circuit / overload / over voltage protection
- Min. voltage rating not to exceed the number of fittings
- Number of fittings not to exceed the max. voltage rating

06

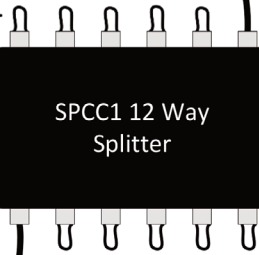
Electrical Connections

Multi Track System

Piccolo Track with 2 Luminaires



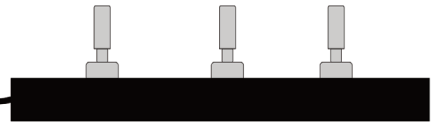
Continuity Plugs



Splitter Input

Max. 12 tracks with
max. 16 luminaires on
one driver.

Piccolo Track with 3 Luminaires



Driver Output

LED Constant
Current Driver
(models can vary)

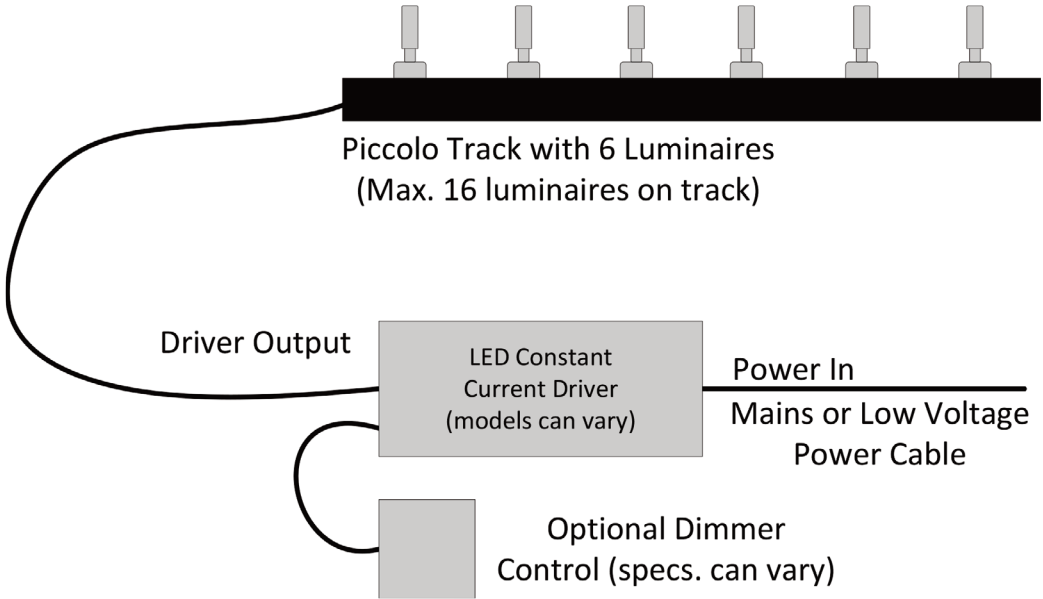
Power In

Mains or Low Voltage
Power Cable

Optional Dimmer
Control (specs. can vary)



Single Track System



Maximum Tracks & Luminaires

The maximum number of tracks which can be connected to one driver, via the UFO SPCC1 splitter is 12. A maximum of 16 Piccolo luminaires can be fitted to these tracks. So for example, if 4 tracks are connected, then each track could have 4 luminaires.

On a single track system, which does not use a splitter, a maximum of 16 luminaires can be fitted to the track.

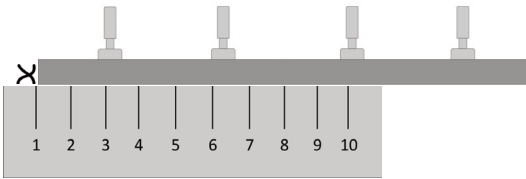
08 Installation

Triangular Profile Track

The track is straight and the clips **MUST** be installed in a straight line. Any bend in the installation or attempt to make the track fit in improperly aligned clips could damage the track, fittings and clips.

A clip must be installed at each end of the track, and at a maximum of 250mm centres if eyelid is fitted or 500mm centres if no eyelid is used.

- 1 Using a straight edge or laser mark the track position on the mounting surface.



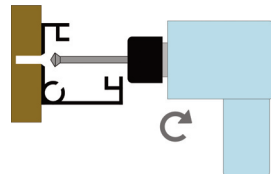
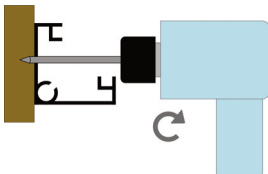
- 2 Slide the front face of the track and the luminaires out of the rear triangular section. The power-in connector should already be loose but if not, remove it before sliding the track off.



- 3 Line the triangular extrusion up with the previously marked positions.

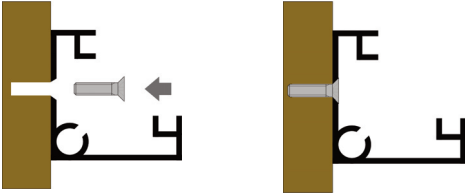
Drill a 2mm hole through the triangular extrusion and the mounting surface at both ends of the extrusion and at least every 500mm in between.

- 4 Use an M3 countersink bit to add a countersink to each hole in the inside of the triangular extrusion.

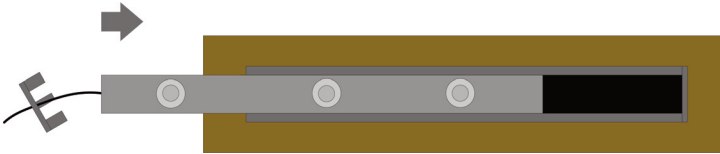


Triangular Profile Track

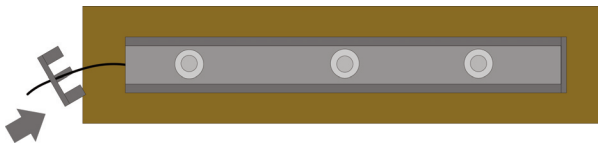
- 5 Select 3mm screws which are suitable for the mounting surface and secure the triangular extrusion through each hole.



- 6 Slide the front face of the track and the luminaires into the rear triangular section.



- 7 Slide the power-in connector up the power cable.



- 8 Push the power-in connector into the end of the track.



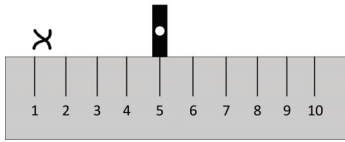
10 Installation

Round & Rectangular Profile Tracks

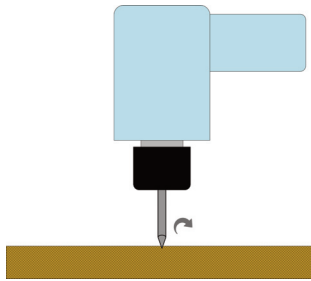
The track is straight and the clips **MUST** be installed in a straight line. Any bend in the installation or attempt to make the track fit in improperly aligned clips could damage the track, fittings and clips.

A clip must be installed at each end of the track, and at a maximum of 500mm centres.

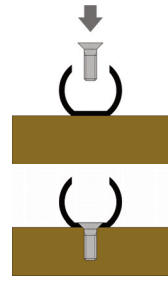
- 1 Using a straight edge or laser mark the clip positions.



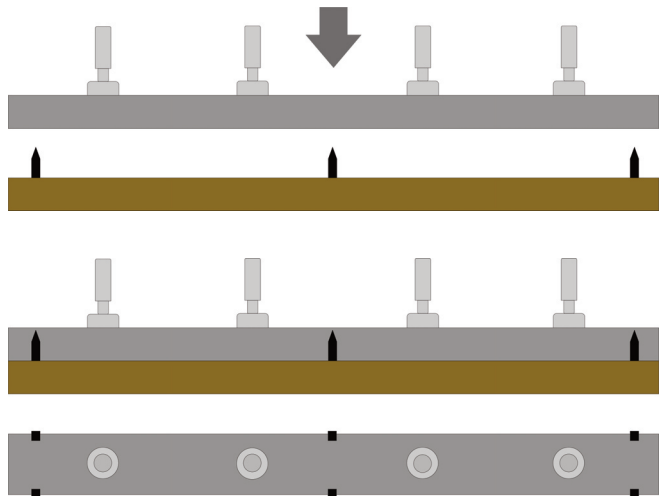
- 2 Use a 2mm or smaller drill bit to create pilot holes for the mounting screws.



- 3 Use M3 countersunk screws suitable for the mounting surface to secure the clips.



- 4 Push Piccolo track into the clips to secure it to the surface.



Note that diagrams on this page show the round profile clips.

Fitment of the rectangular profile is an identical process.

System is dead No light output from luminaires	Mains supply off	Check supply & reinstate
	Loose mains plug(s)	Check plugs
	Loose DC output wire or connection	Check all connections
	Splitter channel not terminated	Check all splitter channels have tracks or continuity links fitted
	Single luminaire failed	Replace faulty luminaire
	Multiple luminaires failed	Gradually replace track plugs with continuity links until luminaires light. Do not reduce the number of luminaires plugged into the splitter below the driver minimum
	Driver failed	Check output with multi-meter. With power on and no luminaires lit, DC output voltage should be at maximum
Some luminaires not illuminating	Short circuit damaged cable between LED & splitter	Replace or repair
	Luminaire short circuit	Replace luminaire and cable
	Faulty or wrong connection at driver	Check driver & dimmer connections.
Luminaires on full illumination but not dimming	Faulty dimmer or damaged dimmer control cable.	Remove dimmer control cable from dimmer. Check continuity of cable and dimmer control.
	Failed driver	Replace driver

14 Maintenance



Universal Fibre Optics

Home Place
Coldstream, TD12 4DT
United Kingdom
+44 (0) 1890 883416
www.ufo.lighting

Universal Fiber Optics USA

1749 Northgate Blvd
Sarasota, FL34238
United States
941-343-8115
www.fiberopticalighting.com

UFO Licht GmbH

Andreastrasse 20
93059 Regensburg
Deutschland
+49 (0) 9491 955880
www.ufo-licht.de



DESIGN



SPECIFY



BUILD



INSTALL

