



User Guide



UFO GEMINI BLU LED LIGHT SOURCE RANGE

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

Thank you for purchasing this UFO light source.

To ensure that the light source is set up optimally and gives a long service life, it is important that this user guide is read and understood before installing, operating or performing any maintenance on the unit. Please retain this user guide for future reference.

UFO will accept no liability for damage, or associated claims, caused by not following the installation and safety instructions contained within this user guide.

Features

The Gemini Blu is an LED light source which is designed for the illumination of both glass and PMMA fibre optic cable. The Gemini Blu outputs dimmable white light only and each unit can be manufactured and specified with one of the following control methods.

- Casambi Bluetooth control
- 0-10V control
- Dali control

The Gemini Blu is a 2 box design. The LED array is contained in one box whilst the other box holds the power supply unit and control module. The 2 parts of the light source are connected by a single 22AWG 2 core cable which can be up to 1 metre in length.

Important Safety Information

- This product must be installed in accordance with the applicable installation code, by a person familiar with the construction and operation of the product, and the hazards involved.
- These light sources are not mains dimmable.
- The LED array in this light source is not replaceable. When it reaches end of life the whole unit must be replaced.
- Type Y Attachment: If the external flexible cable or cord of this luminaire or associated PSU/driver is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person to avoid a hazard.
- Location: Do not locate this light source closer than 200mm from any flammable surface.
- Clearance / Ventilation: It is imperative that a gap of 200mm is left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation and must not have an ambient temperature higher than that specified for the unit.
- Mounting: The array box comes with integral mounting feet for securing the unit to a vertical or horizontal surface. The control box can be mounted by removed the lid and securing through the mounting holes in the base.
- Warning: Never look directly at the luminaire through the fibre port of the light source.
- Warning: The luminaire should be positioned so that staring into the luminaire at a distance closer than 2.7 metres is not expected.
- Warning: To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.

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Model Guide & Overview

Model Product Codes

Product Code	CCT	CRI	Control
UFO GEMB-2795-CA	2700K	95	Casambi Dimming
UFO GEMB-2795-V	2700K	95	0-10V Dimming
UFO GEMB-2795-D	2700K	95	DALI Dimming
UFO GEMB-3095-CA	3000K	95	Casambi Dimming
UFO GEMB-3095-V	3000K	95	0-10V Dimming
UFO GEMB-3095-D	3000K	95	DALI Dimming
UFO GEMB-4095-CA	4000K	95	Casambi Dimming
UFO GEMB-4095-V	4000K	95	0-10V Dimming
UFO GEMB-4095-D	4000K	95	DALI Dimming

Model Control Options

The Gemini Blu can be specified with 1 of 3 different control modules, all of which offer control over the units dimming functionality.

1. Casambi Bluetooth control. This requires the Casambi app to be installed on a mobile device such as a phone or tablet. The app can then be connected via Bluetooth used to control dimming functionality
2. 0-10V control. This requires a standard 0-10V controller be connected to the light source driver to control dimming functionality
3. Dali control. This requires that a standard DALI controller be connected to the light source driver so control the dimming functionality.

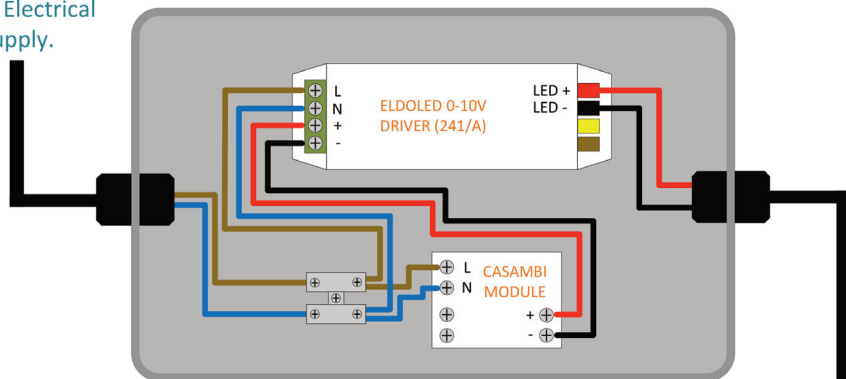
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Connection & Operation

Casambi Control Variants

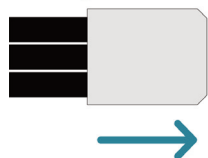
Control Box – Casambi Control Versions

To AC Electrical Supply.



LED Array Box – All Versions

Fibre Optic Harness



Jack Plug to LED Array Box



Casambi Control Variants

Firstly plug the fibre optic harness' connector into the fibre port on the front face of the light source.

Ensure the connector is pushed in as far as it will go and then tighten the M5 brass screw to secure it in place.

Never run the luminaire with the fibre optic connector out of the collar.

Connect the control box to the LED array box using the jack plug and then connect the control box to the mains AC power supply and power on. The power indicator LED on the array box should illuminate.

Light should then be produced from the fibre port and the fibre harness or its end fittings should illuminate.

Download and install the Casambi app from either the Google Play Store or the Apple App Store onto a compatible smart phone or tablet.

Start the app and then use it to connect via bluetooth to connect the light source. Dimming control should then be available through the app interface.

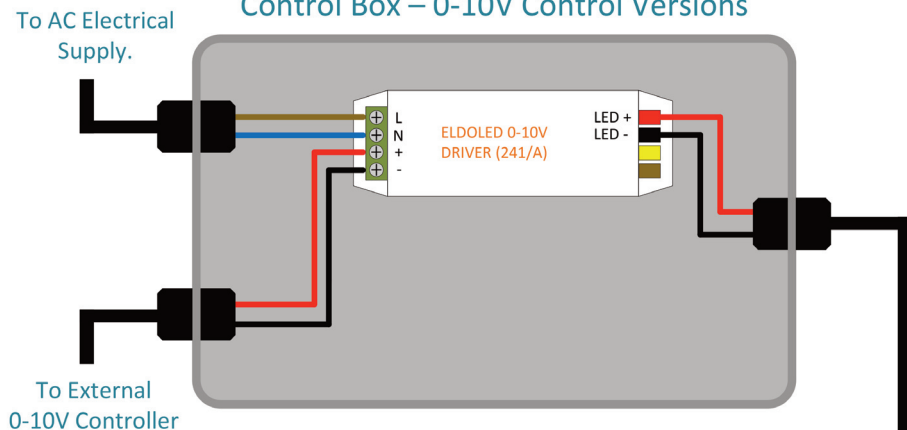
If no light is produced or dimming does not work properly then consult the troubleshooting section at the end of this guide.

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Connection & Operation

0-10V Control Variants

Control Box – 0-10V Control Versions



LED Array Box – All Versions



0-10V Control Variants

To connect a 0-10V controller

Ensure that there is no power going to the control box.

Remove the 4 screws on the control box which secure the lid to the base. Feed a 2 core cable from the 0-10V controller through the empty gland on the same side that the mains electrical supply cable gland is located.

Connect the 2 core cable to the positive (+) and negative (-) connectors on the green terminal connector.

Replace the lid and secure with the 4 screws.

Other connections & powering up

Plug the fibre optic harness' connector into the fibre port on the front face of the light source.

Ensure the connector is pushed in as far as it will go and then tighten the M5 brass screw to secure it in place.

Never run the luminaire with the fibre optic connector out of the collar.

Connect the control box to the LED array box using the jack plug and then connect the control box to the mains AC power supply and power on. The power indicator LED on the array box should illuminate.

Light should then be produced from the fibre port and the fibre harness or its end fittings should illuminate.

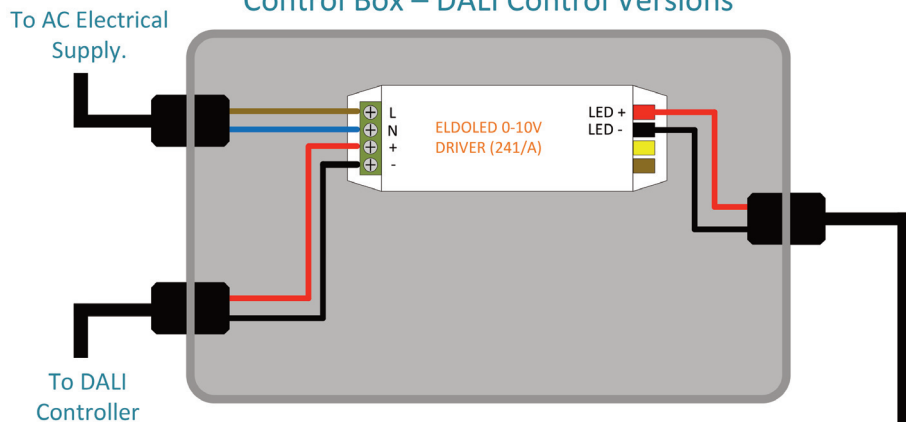
The 0-10V controller can then be used to control the dimming level of the light source..

If no light is produced or dimming does not work properly then consult the troubleshooting section at the end of this guide.

10 Connection

DALI Control Variants

Control Box – DALI Control Versions



LED Array Box – All Versions



DALI Control Variants

To connect a DALI controller

Ensure that there is no power going to the control box.

Remove the 4 screws on the control box which secure the lid to the base. Feed a 2 core cable from the DALI controller through the empty gland on the same side that the mains electrical supply cable gland is located.

Connect the 2 core cable to the positive (+) and negative (-) connectors on the green terminal connector.

Replace the lid and secure with the 4 screws.

Other connections & powering up

Plug the fibre optic harness' connector into the fibre port on the front face of the light source.

Ensure the connector is pushed in as far as it will go and then tighten the M5 brass screw to secure it in place.

Never run the luminaire with the fibre optic connector out of the collar.

Connect the control box to the LED array box using the jack plug and then connect the control box to the mains AC power supply and power on. The power indicator LED on the array box should illuminate.

Light should then be produced from the fibre port and the fibre harness or its end fittings should illuminate. The DALI controller can then be used to control the dimming level of the light source..

If no light is produced or dimming does not work properly then consult the troubleshooting section at the end of this guide.

12 Basic Troubleshooting

All Models

Problem	Possible Cause	Solution
Unit is dead - no light output Mains power indicator is not illuminated	Mains supply off	Check supply & reinstate
	Loose connector(s)	Check connections
	Plug fuse blown (UK)	Check & replace if needed
	Mains supply cable faulty	Acquire replacement cable

Casambi Control Models

Problem	Possible Cause	Solution
Unit is dead - no light output Mains power indicator is illuminated	Dimming set to minimum in Casambi app.	Turn dimming control up in Casambi app
	Failed internal component	Contact UFO
No control over dimming	Casambi app misconfiguration	Check configuration of app

0-10V Control Models

Problem	Possible Cause	Solution
Unit is dead - no light output Mains power indicator is illuminated	Dimming set to minimum on 0-10V controller	Turn dimming control up on 0-10V controller
	Failed internal component	Contact UFO
No control over dimming	Faulty 0-10V controller or controller not wired correctly	Check controller wiring and/or replace controller

DALI Control Models

Problem	Possible Cause	Solution
Unit is dead - no light output Mains power indicator is illuminated	Dimming set to minimum on DALI controller	Turn dimming control up on DALI controller
	Failed internal component	Contact UFO
No control over dimming	Faulty or misconfigured DALI controller or controller not wired correctly	Check controller configuration and wiring and/or replace controller

If you are unable to sort or diagnose an issue with the light source please contact your local UFO technical department using the contact details on the back page of this guide.

14 Maintenance

Maintenance Procedures

To ensure a long working life and the safe, reliable operation of the light source, it is very important to maintain it properly and ensure it is installed in an appropriate and safe location.

Before performing any maintenance on the light source it should be disconnected from the power supply and allowed to cool down.

- The light source fans and vents should be blown out with compressed air at least every 12 months, or more often if located in a dusty environment.
- Do not allow dust to build up on internal pcb's & components as this will increase heat within the light source and lead to failure. Units should be checked regularly and all dust must be vacuumed off. Failure caused by excessive dust will not be covered under warranty.
- After the light source has been installed, check the fans and vents to ensure they are clear of dust and debris. Blow out with compressed air if required.
- The body of the light source can be cleaned using a soft damp cloth. Do not use any abrasives on the unit.

Note that a record of all maintenance MUST be kept in the table on the next page, indicating what maintenance was undertaken. This must be dated and is required for warranty purposes.

Safety Guidance

- A gap of 200mm (8") MUST be left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation and must not have an ambient temperature higher than that specified for the luminaire.
- The outer body of the light source may become hot - keep away from all combustible materials and DO NOT locate this light source within 200mm (8") of any flammable surface.
- The light source must not be run without the fibre optic harness fitted.



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Technical Specifications

General Information

Port Connector Size	30mm diameter
Fibre Type	Glass / PMMA
Array Box Details	Material: ABS, light grey Dimensions: 222 x 114 x 81mm
Driver & Control Box Details	Material: ABS, RAL7035 grey Dimensions: 180 x 120 x 45mm
Control to Array Box Interface Cable	22AWG 2 core cable Max. length is 1 metre
Operating Environment	Indoor use only - IP20
Ambient Temperatures	-10° C to +45°C

Electrical Data

Supply Voltage	198-264VAC
Mains Running Current	0.15A @ 230VAC
VA Rating	33VA
Fan Type	None
Constant Current PSU	Ecodrive 241/A

LED Array Data

LED Array Type	White light, 9mm LED CoB
LED Array Model	Luxeon 1203 CoB
LED Drive Current	250mA
LED Array Power	8.55W
LED Array Life (L70, B10)	>50,000 hours (typical)
Colour Temperature Options	2700K / 95CRI / 975lm 3000K / 95CRI / 975lm 4000K / 95CRI / 975lm
R9	91

18 Notes



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DESIGN



SPECIFY



BUILD



INSTALL

