

CUPOWER

BORN TO BE LIGHT.



Instruction manual

Fixture settings

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1. Function of fixture sharing

Change manufacturer name, device name, and device icon.

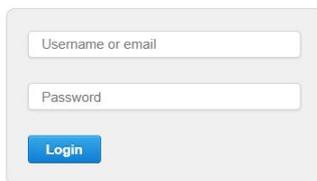
Change the specific configuration parameters of the module.

CCT range, dimming curve.

Change the default values of manufacturer parameters and whether they are visible in the app or not.

2. Configuration steps

Enter the username and password log in to the Casambi website.



Click "Fixtures" to enter the fixture configuration interface.



Fixtures Groups Modules Products Logout

Utility App

Casambi Utility App can be installed from this page when logged in using browser on iPhone, iPad or iPod.

Click "New fixture".



Fixtures Groups Modules Products Logout

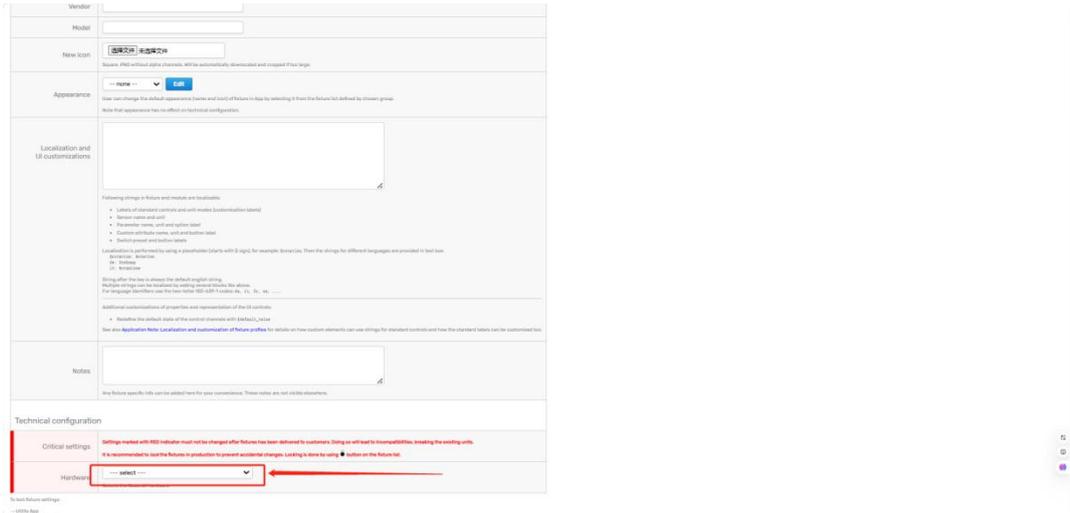
Fixtures Shared fixtures **New fixture**

Account: -- My account and parent accounts --

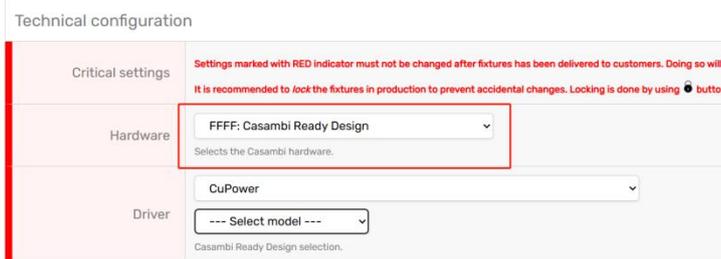
Search: Search by id, hardware id, name, category, or * for all.

Search

After clicking on it, the following screen will pop up, select the "Hardware" in the box below.

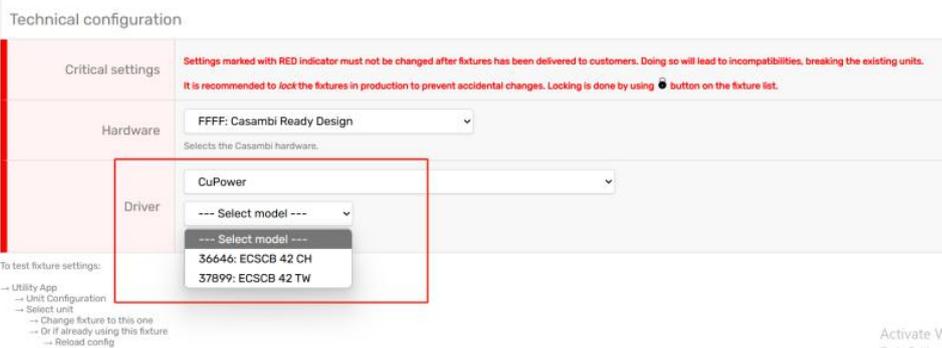


Select FFFF:Casambi Ready Design.

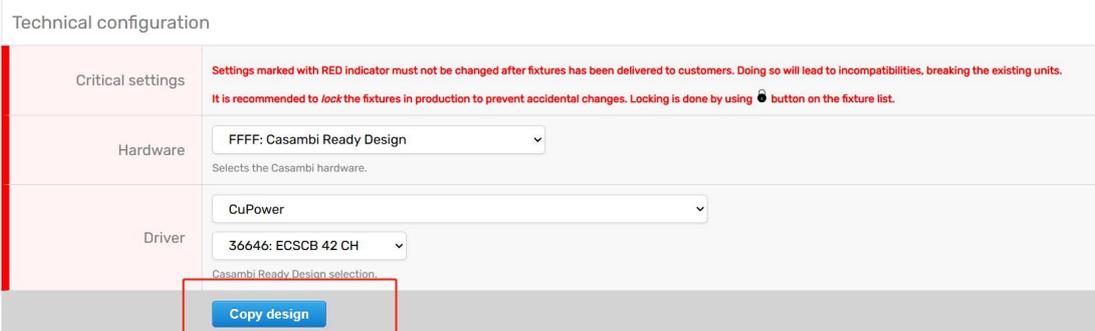


Select "CuPower" and the needed product.

We only shared 36646 and 37899 now, if the vendors need more drivers, please let us know and we will create.



Select Copy design, please pay attention to whether the ID matches.



3. Customize fixtures

3.1 UI interface

After the above operation is completed, the following page will pop up, customers can complete the customisation of the product UI interface according to their own needs, including the manufacturer name, device name, device icon, as well as the customisation of the APP UI interface elements.

UI customisation, it's optional, please see the details in link:

[https://admin.casambi.com/downloads/476/AN Localization and customization of Casambi fixture profiles](https://admin.casambi.com/downloads/476/AN%20Localization%20and%20customization%20of%20Casambi%20fixture%20profiles)

3.2 Module function configurations

Customisation of the functional configuration of the modules can be done according to vendors' needs, and the configuration definitions can be seen in the comments of the corresponding positions.

Technical configuration

Critical settings	Settings marked with RED indicator must not be changed after fixtures has been delivered to customers. Doing so will lead to incompatibilities, breaking the existing units. It is recommended to lock the fixtures in production to prevent accidental changes. Locking is done by using  button on the fixture list.												
Hardware	FFFF: Casambi Ready Design Selects the Casambi hardware.												
Driver	CuPower 36646: ECSCB 42 CH Casambi Ready Design selection.												
Type	Luminaire Type affects where and how the fixture will presented on app user interface. <ul style="list-style-type: none"> Luminaire & Driver: appears in the luminaire grid PushButton & BatterySwitch: appears in More / Switches Sensor & BatterySensor: appears in More / Sensors Gateway: appears in More / Gateways Additionally the BatterySwitch and BatterySensor are low energy devices that are powered by a battery and in the module settings the section Power management for battery powered switch or sensor should be												
Mode	EXT/1ch/Dim Basic one channel dimmer using extension interface (EXTIF mode 0). <table border="1"> <thead> <tr> <th>Enabled</th> <th>Type</th> <th>Info</th> </tr> </thead> <tbody> <tr> <td>YES</td> <td>Overheat indicator</td> <td>Detection is always active but this sensor also allows it to be shown in the user interface.</td> </tr> <tr> <td>NO</td> <td>Board temperature</td> <td>Onboard sensor measuring the operating temperature inside unit. Intended for development purposes only.</td> </tr> <tr> <td>YES</td> <td>Overcurrent indicator</td> <td>Overcurrent protection is always active, and this sensor provides status to show in the user interface.</td> </tr> </tbody> </table>	Enabled	Type	Info	YES	Overheat indicator	Detection is always active but this sensor also allows it to be shown in the user interface.	NO	Board temperature	Onboard sensor measuring the operating temperature inside unit. Intended for development purposes only.	YES	Overcurrent indicator	Overcurrent protection is always active, and this sensor provides status to show in the user interface.
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Number of Custom Elements	0 Elements offer a way to create custom user interface controls appearing along with regular lightino controls.												

3.3 Dimming curve and special parameters

In the following example, relay mode and various delays can be customised, click "Edit" to customise the dimming curve, and in the case of colour temperature products, you can also modify the CCT range on this page (as shown in the figure below).

3.3.1 No colour temperature function, no CCT range.

Relay mode	Not used <ul style="list-style-type: none"> Normal: relay will switch ON and OFF based on dimming level. Always ON: relay is switched ON in startup, and kept always ON after that. Not used: relay is switched OFF at startup, and can be set ON only with a custom element. Note that "Normal" and "Always ON" relay operation are overlaten by the first qualifying custom element (slider with "Relay" option, ON/OFF toggle or button element)																																																																		
Startup delay	0 x 10 ms General delay before Casambi module initializes its control functions. This delay is applied only once every system start and before any possible activities on the Extension Interface (before the Init message). Note that this delay is unconditional while the additional Power on delay is applied for switching from ON(OFF) status after the system initialization. Diagram																																																																		
Power on delay	0 x 10 ms Delay after relay is switched ON and start of dimming. When cold booting, some LED drivers (especially DALI) require a small delay before it can accept commands. Diagram Note that Power on delay is attached to relay handling so delay mode setting will affect the when the delay is applied.																																																																		
Power off advance	0 x 10 ms Specifies the advance time when the relay is switched off when fading out to OK. This gives a small time window to drive the LED with drivers capacitors, thus employing them and preventing the after glow. Diagram																																																																		
Fade in/out duration	10 x 10 ms Duration of full range light animation (from 0% to 100%). Zero for no smoothing.																																																																		
Fade in/out duration (at startup)	100 x 10 ms Duration of full range light animation (from 0% to 100%), used at startup. Zero for no smoothing.																																																																		
Dim/Save duration	800 x 10 ms Duration for doing full dim range Dim/Save or Push button transition. Between 250 and 2000.																																																																		
Dimmer	 Dimming curve adjustment. Generated values can be copy/pasted. Empty field indicates linear response. Preview																																																																		
Parameters	<table border="1"> <thead> <tr> <th>Name</th> <th>Min</th> <th>Value</th> <th>Max</th> <th>Unit</th> <th>On App?</th> </tr> </thead> <tbody> <tr> <td>Output Current</td> <td>0</td> <td>Read-only</td> <td>1050</td> <td>mA</td> <td>Yes</td> </tr> <tr> <td>Read Mode</td> <td></td> <td>Read-only</td> <td>-</td> <td></td> <td>Yes</td> </tr> <tr> <td>Read AOC</td> <td>300</td> <td>Read-only</td> <td>1050</td> <td>mA</td> <td>Yes</td> </tr> <tr> <td>Read DC Emergency</td> <td>0</td> <td>Read-only</td> <td>1</td> <td>-</td> <td>Yes</td> </tr> <tr> <td>Read DCE Level</td> <td>0</td> <td>Read-only</td> <td>100</td> <td>%</td> <td>Yes</td> </tr> <tr> <td>Read Fade Time</td> <td>0</td> <td>Read-only</td> <td>100</td> <td>-</td> <td>Yes</td> </tr> <tr> <td>Read Connect Failure Level</td> <td>0</td> <td>Read-only</td> <td>100</td> <td>%</td> <td>Yes</td> </tr> <tr> <td>Set Mode</td> <td></td> <td>Dim</td> <td>-</td> <td></td> <td>Yes</td> </tr> <tr> <td>Set AOC</td> <td>300</td> <td>300</td> <td>1050</td> <td>mA</td> <td>Yes</td> </tr> <tr> <td>Set DC Emergency</td> <td>0</td> <td>Enable</td> <td>1</td> <td>-</td> <td>Yes</td> </tr> </tbody> </table>	Name	Min	Value	Max	Unit	On App?	Output Current	0	Read-only	1050	mA	Yes	Read Mode		Read-only	-		Yes	Read AOC	300	Read-only	1050	mA	Yes	Read DC Emergency	0	Read-only	1	-	Yes	Read DCE Level	0	Read-only	100	%	Yes	Read Fade Time	0	Read-only	100	-	Yes	Read Connect Failure Level	0	Read-only	100	%	Yes	Set Mode		Dim	-		Yes	Set AOC	300	300	1050	mA	Yes	Set DC Emergency	0	Enable	1	-	Yes
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3.3.2 Adjustable colour temperature products, CCT range can be modified, can also be achieved cold and warm light dimming curve calibration, cold and warm light ratio curve calibration.

4. Manufacturer's parameters

Customisation of default values for manufacturer parameters and whether they are visible on the app is possible.

Name	Min	Max	Unit	On App?
Output Current	0	1000	mA	Yes
Read Mode	0	-	-	Yes
Read AOC	300	1000	mA	Yes
Read DC Emergency	0	1	-	Yes
Read DCE Level	0	100	%	Yes
Read Fade Time	0	100	-	Yes
Read Connect Failure Level	0	100	%	Yes
Set Mode	0	-	-	Yes
Set AOC	300	1000	mA	Yes
Set DC Emergency	0	1	-	Yes
Set DCE Level	0	100	%	Yes
Set Fade Time	0	100	-	Yes
Set Connect Failure Level	0	100	%	Yes

After completing the above configuration, click "Save changes" to generate a new fixture ID based on the product module, change the Bluetooth product ID to the new fixture ID to complete the product customisation, as follows.

Edit fixture

Appearance & Branding

ID	40227
Category	Driver
Vendor	CUPOWER
Model	ID CCCB30W

Icon





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