## How to configure lighting control for a small-office setting

Before using the cheat sheet, please make sure you have the basic Casambi App knowledge for creating a network, pairing devices, creating groups and enabling control hierarchy. For more information, please refer to the tutorial videos on: https://casambi.com/training/

### Scenario

#### Small-office with one lux/presence sensor

An office with 2 luminaires (L1 and L2) and one presence/lux sensor (S1) positioned over the desk. When occupied, lights automatically switch on and try to maintain the illumination on the desk at 500 lux.

## Key Programming Overview

#### 1 Scene

 Office - Daylight scene (Closed loop daylight with target lux level set to 500 lux).

#### 1 Sensor

- Presence mode: It activates the Office scene while movement is detected.
- Daylight: It measures the lux level and adjusts the lights to maintain the target lux level set.

CASAMBI



Casambi Cheat Sheet: V2.0 EN

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# **Casambi Cheat Sheet**

# Office: Small-Office (Close loop)

STEP 2: SENSOR	Casambi App
C Back     S1       INFORMATION     Name       Name     S1       Icon     Tap to set 3       Vendor     Casambi Technologies Dy       Model     DemoCube Sensor       Details     3       IMESENCE Sensor       Details     3       Imesence Sensor	
<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	Image: New York       New York         Image: New York       Image: New York         <
	<ul> <li>Sensitivity and Tolerance adjustment to ensure lights do not react too fast to rapid changes of external illumination.</li> <li>Configuring a closed loop scene to achieve 500lx on a surface: <ol> <li>Place a lux meter on the surface below the sensor</li> <li>Dim the lighting to achieve the desired lux on the surface (500lx measured by the lux meter positioned on the desk)</li> <li>In the Casambi app, read the lux value being measured by the sensor (this is likely to be different from the 500lux target, for example, 400lx)</li> <li>Use the sensor lux value (400lx) as the target lux value (Desired iluminance) in the Closed loop daylight scene.</li> </ol> </li> <li>Set up the daylight scene when no "external light" is affecting the lux in the room (e.g. at night). So, <u>ONLY</u> the 2 luminaires provide the illumination.</li> </ul>
STEP 3: PERFORMANCE	Casambi App $\longrightarrow$ More $\longrightarrow$ Network Setup $\longrightarrow$ Performance & Security
Cancel         Performance & Security         Done           Image: Min sensor reporting time         00.01         >           Reduces network data traffic. Increase the time to	Min sensor reporting time defines how often lux sensors report values to the network. Choosing a higher interval reduces network traffic, especially in networks with many sensors.

Allow unpair
 Allow flick unpair

Allow firmware updates

Devices always visible

ISSION POWER



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### Scenario

# Small-office with a switch and outdoor lux sensor

- An office with 2 luminaires (L1 and L2), one lux sensor (S1) positioned outside the building, and one EnOcean switch.
- Lights are switched on/off from the switch.
- While On, the lights automatically dim up or down as it gets brighter or darker outside.

## Key Programming Overview

#### 1 Scene

 Office - Daylight scene: (Open loop daylight with appropriate response graph defined).

#### 1 Sensor

• Daylight: It measures the lux level and adjusts the dimmed level of the scene while it is active.

#### **1 Switch**

Scene

The switch triggers on/off the Office scene.

#### STEP 1: SCENE



**Open loop:** Sensors should not be affected by any light from the luminaires in the network.





Casambi App



Define the **Response Graph** so that it doesn't get too dark in the room when there is insufficient natural light.





## **Casambi Cheat Sheet**

## Office: Small-Office (Open loop)

STEP 2: SENSOR		Casambi App $\longrightarrow$	More —> Sensor		
Classical S1       RAGINARATION       Name     S1       Icon     Tap to set >       Icon     Danlers Limited       Model     CBU-CESR       Details     >       Details     >       Present/CE Striktorr     Note loss       Overside statution     Striktorr       Overside statution     1066 lucs       Overside statution     1066 lucs	Cancel     Sale state       Sensitivity     88.8 st       Margin calculation with a sensors the	Sensitivity and Tolerance a external illumination.	Sensitivity: How big the char Tolerance: How much ove permitted before a change	ange in lux must b er-/under-shoot o occurs. do not react too	e before any sensor reaction. of the actual target value is a fast to rapid changes of
STEP 3: PERFORMA	NCE	Casambi App	More — Network Se	etup $\longrightarrow$ F	Performance & Security
<ul> <li>Min sensor reporting time</li> <li>0:01</li> <li>Reduces network data traffic: Increase the time to increase are not required to continuously and information.</li> <li>Allow unpair</li> <li>Allow flick unpair</li> <li>RADIO TEAMSMISSION POWER</li> <li>Indianda Maximum</li> <li>Andrease Joset also has near a sensor and the maximum of the sensor canaditise.</li> </ul>	1	Min sensor reporting time higher interval reduces net	defines how often lux sens work traffic, especially in net	ors report values works with many	s to the network. Choosing a sensors.



**Use toggle:** If enabled, one push of a switch will activate the set function (e.g. Select a scene). A second push will deactivate it. Disabling this function means that pushing a switch will only activate the selected function.

Disable dimming: Disabling dimming prevents a long button push from adjusting the preset scene dimmed level.

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Devices always visible