PHILIPS

Lighting Controls

SpaceWise

Quick start
guide

Wireless lighting control solutions from Philips
for office and industrial applications
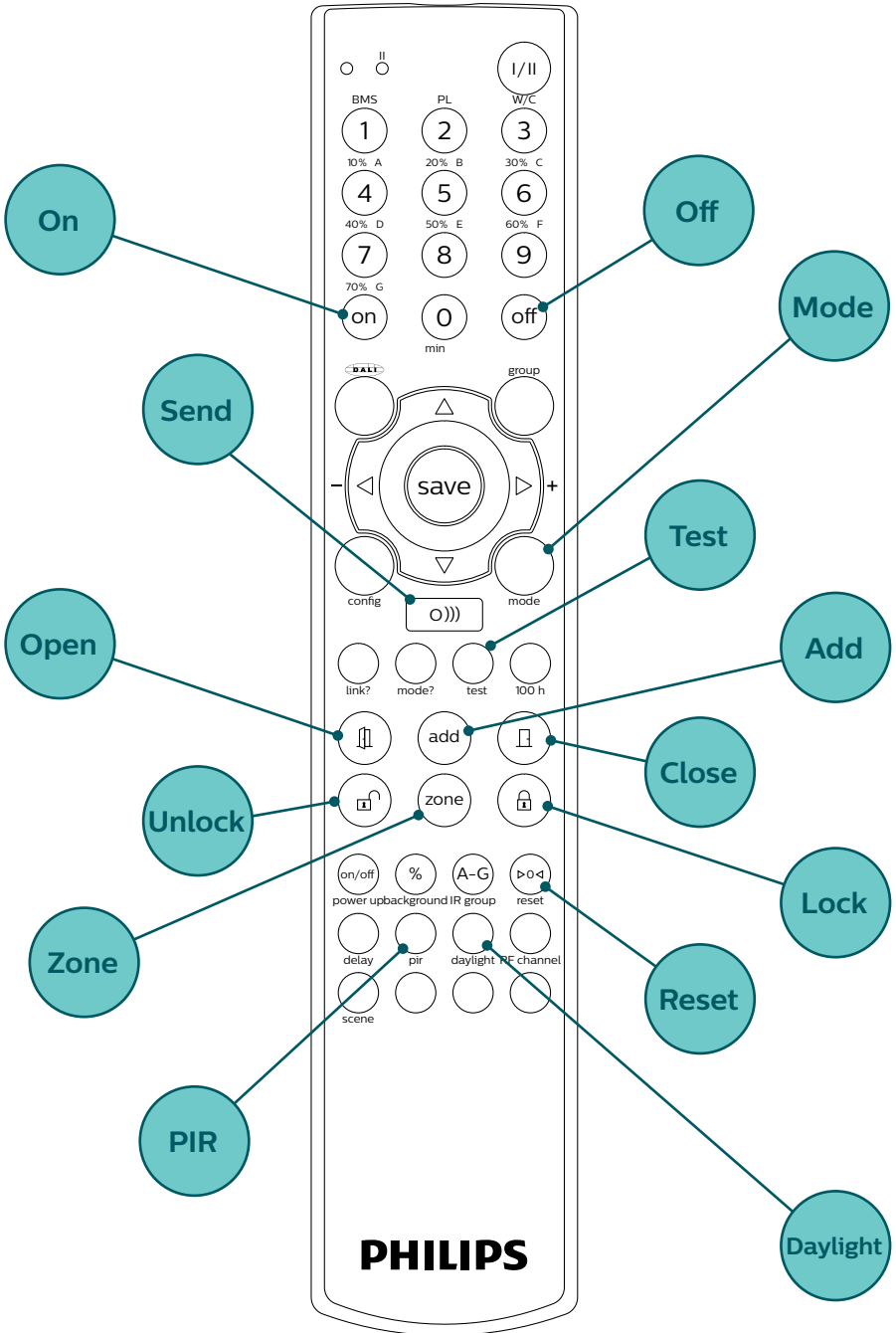
SpaceWise remote

On

Off

Send

Mode

Test

Open

Add

Unlock

Close

Zone

Lock

PIR

Reset

Daylight

II

I/II

BMS   PL   W/C

1   2   3

10% A   20% B   30% C

4   5   6

40% D   50% E   60% F

7   8   9

70% G

on   0   off

min

DALI   group

save

−   +

config   mode

O)))

link?   mode?   test   100 h

add

zone

on/off   %   A–G

power up   background IR group   reset

delay   pir   daylight   RF channel

scene

PHILIPS

Table of
contents

Getting Started: Office

Installation and configuration of luminaires with SpaceWise technology

⚠️ **Fixtures must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.**

1. Confirm all components received

Luminaires

SpaceWise remote

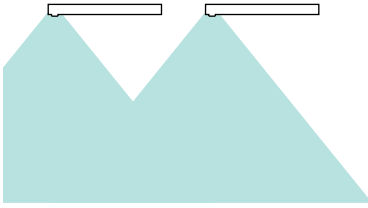Optional wireless wall switch, scene selector and external ceiling sensors.

Instructions:
- Luminaire installation instructions (In luminaire box)
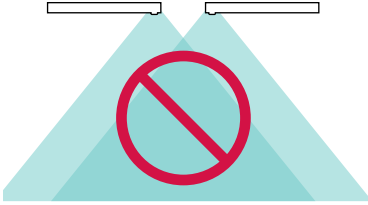- Accessory installation (In accessory box)

Additional information can be found at www.philips.com/spacewise:

- SpaceWise User Manual
- SpaceWise Design Guide

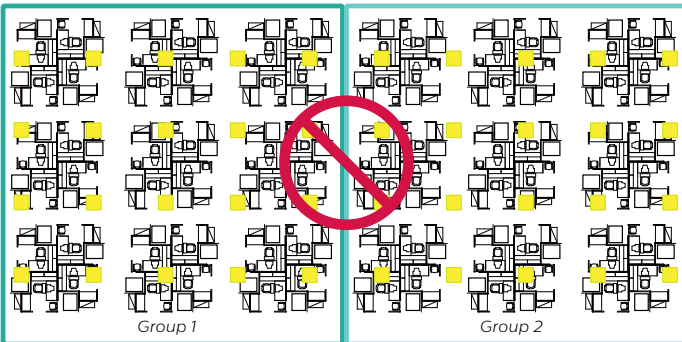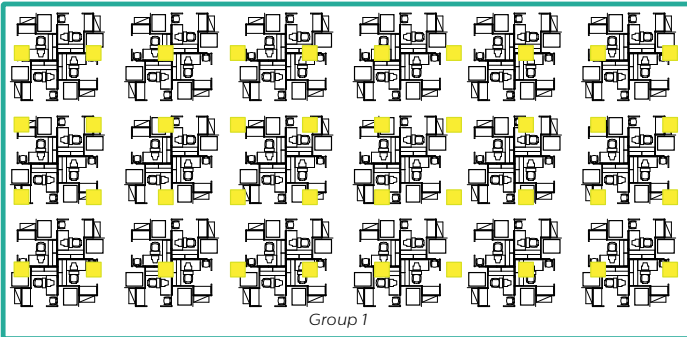## 2. Determine luminaire orientation

Ensure sensor is facing away from window.

Ensure sensors from adjacent luminaires are not positioned next to one another.

Install luminaires per manufacturer installation instructions.

3. Plan luminaire wireless groups

Group 1

Group 1   *Group 2*

When configuring open plan offices with the SpaceWise Remote, large groups of 30-50 luminaires are recommended to maintain the lighting aesthetics of the space. Smaller groups may turn off more frequently than desired.

4. Create a group

Grouping is required to initiate system functionality and dimming behaviors.

⚠️ **The Luminaire/s have to be in a factory new state to group them together. If changes were previously made on the luminaires then perform a factory reset as per the troubleshooting instructions on page 30 of this manual.**

All actions are to be performed by standing underneath a luminaire and pointing the remote directly towards the luminaire sensor.
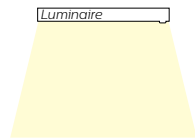
4a. Open Group
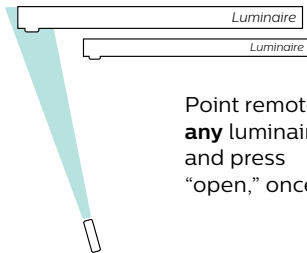
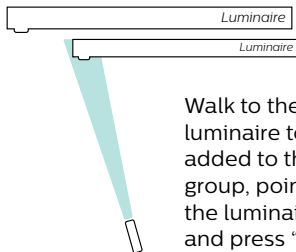Point remote to **any** luminaire and press "open," once.

Wait for the luminaire to dim down to 5%.

⚠️ **Make sure the button is pressed only once. Pushing multiple times can create multiple networks which can cause undesired operation.**
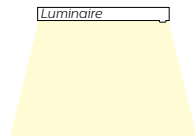
4b. Add luminaires to group

Walk to the next luminaire to be added to the group, point to the luminaire and press "add."
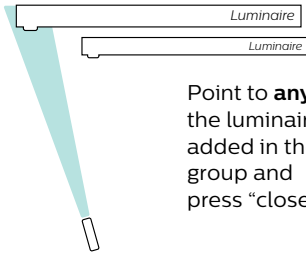
add

Luminaire will dim down to 5%.
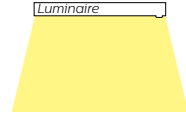
Repeat step for adding all the luminaires in the group.

4c. Close group

Luminaire
Luminaire
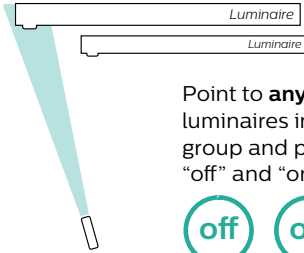
Point to **any** of the luminaires added in the group and press "close."

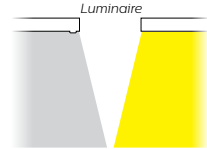All the luminaires in the group will go to 50% light level.

Luminaire

4d. Verify the group

Luminaire
Luminaire

Point to **any** of the luminaires in the group and press "off" and "on."
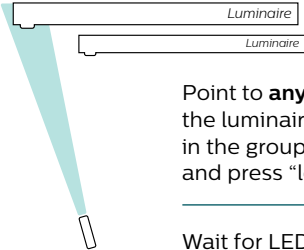
off **on**

All the luminaires in the group will turn OFF and ON together.

Luminaire

⚠️ **If any luminaires in the group do not turn ON/OFF, they are not part of the group. Go back to step 4a to add the luminaires back in to the group.**

4e. Lock the group

Luminaire
Luminaire

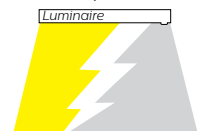Point to **any** of the luminaires in the group and press "lock."

Red LED on remote will start blinking.

Wait for LED to stop blinking (apx. 10 seconds) then press "send."

o)))

The luminaire will FLASH twice and group will turn OFF and ON once for daylight calibration. Group is ready for normal operation.
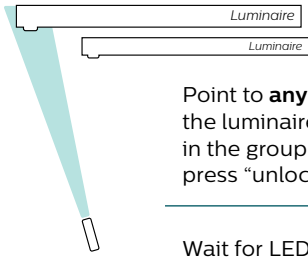
Luminaire

5. Choose an application mode

Choose the desired application mode per group. Behavior varies for each application. See the SpaceWise Design Guide for more details.

Application	ON/OFF behavior	Mode	Hold time[1]	Prolong time[2]
Open Office	Auto ON/Auto OFF	**24**	10 min	15 min
Open Office	Manual ON/Auto OFF	**25**	10 min	0 min
Private Office/ Meeting room	Auto ON/Auto OFF	**1**	10 min	15 min
Private Office/ Meeting room	Manual ON/Auto OFF	**3**	10 min	0 min
Corridors and Stairwells	Auto ON/Auto OFF	**26**	5 min	15 min
Corridors and Stairwells	Auto ON/No auto OFF	**5**	5 min	Infinite

1. Hold time is the occupancy time out after which the luminaire dims from the task level to the background level.

2. Prolong time is the time for which the luminaire stays at the background level before switching off.
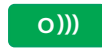
5a. Unlock the group

Luminaire

Luminaire

Point to **any** of the luminaires in the group and press "unlock."
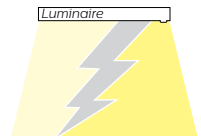
Red LED on remote will start blinking.

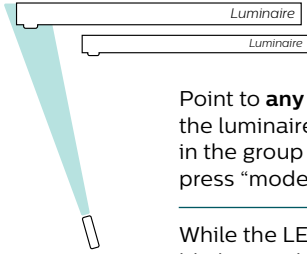Wait for LED to stop blinking (apx. 10 seconds) then press "send."

Red LED on remote will stop blinking.

The luminaire will FLASH twice and group light level will go to 50%.

Luminaire

5b.

Set application mode

Luminaire

Luminaire

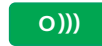Point to **any** of the luminaires in the group and press "mode."

mode

Red LED on remote will start blinking.

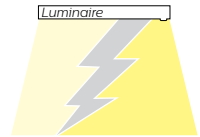While the LED is still blinking red, enter the number for the preferred mode (see list at step **5**).

Point to **any** of the luminaires in the group, press "send."

O)))

The luminaire will FLASH twice and group light level will go to 50%.

Lock the group, refer to step **4e**.

· After locking lighting group is operational in selected mode.

Luminaire

⚠ **If unsure about mode selection or remote blinking status then wait for the remote blinking to stop and redo step 5b.**

6.

Change maximum light output

Choice of max light output per group will be influenced by existing conditions such as partition height, reflectances, light level preference and energy goals.
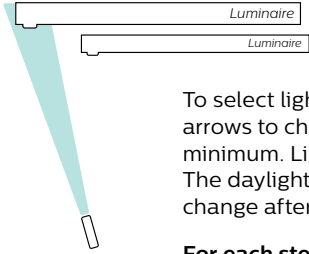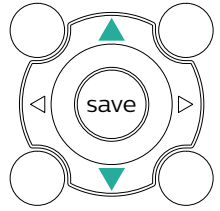
Light output setting	Max light output options
High	100%
Medium (Default)	88%
Low	77%
Minimum	66%

6a.

Set light output per group

Unlock the group, refer to step **5a.**

· Group will be unlocked for further operation.

Luminaire
Luminaire

To select light output settings, use the up and down arrows to change between high, medium, low and minimum. Light level can be altered one step at a time. The daylight button must be pressed to initiate a new change after every end of step.

For each step up or down:

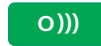|		
Point to **any** luminaire in the group and press "daylight."	daylight	Red LED on remote will start blinking.
While the remote is blinking, select: or		Red LED on remote will stop blinking.
Then press "send." End of step.	O)))	Depending on the sensor firmware version, lights may or may not flash twice to confirm the light level change.

Lock the group, refer to step **4e.**

· After locking, lighting group is operational at selected light level.

Note that the default setting is Medium. To get to high, go one step up. To get to Minimum, go two steps down.

|	
Medium to High	Will move light output setting from default of 88% to 100%.
Medium to Low	Will move light output setting from default of 88% to 77%.
Low to Minimum	Will move light output setting from default of 77% to 66%.

⚠️ **If unsure about light output selection, step up to the highest setting and observe the subtle reduction in light level each time you activate lower settings.**

7. Link a wireless switch to a group

Up to 5 switches and scene selectors can be linked together in a group. The switch uses EnOcean technology and does not need batteries or any power supply. Every time the switch is physically pressed it generates energy and transmits a wireless message to the luminaires.

- A small press and release action on the rocker will turn on or turn off the lights.

- A long press and hold action on the rocker will dim the lights accordingly.

7a. Unlock the group
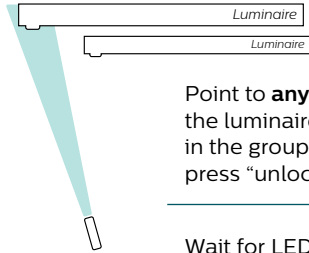
Luminaire

Luminaire

Point to **any** of the luminaires in the group and press "unlock."

Red LED on remote will start blinking.

Wait for LED to stop blinking (apx. 10 seconds) then press "send."

Red LED on remote will stop blinking.

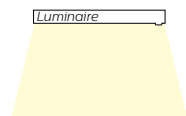The luminaire will FLASH twice and group light level will go to 50%.

Luminaire

7b. Open Group
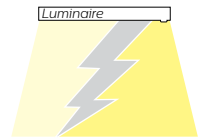
Luminaire
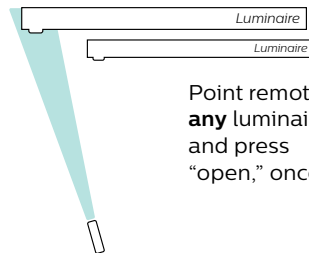
Luminaire

Point remote to **any** luminaire and press "open," once.

Wait for the entire luminaire group to dim down to 5%..

Luminaire

Make sure the button is pressed only once. Pushing multiple times can create multiple networks which can cause undesired operation.
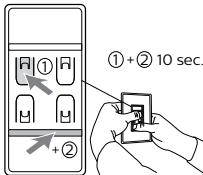
7c. Rocker switch

Remove the rocker pad cover of the switch by applying pressure at the back of the switch. You will find 4 small buttons behind the rocker pad.
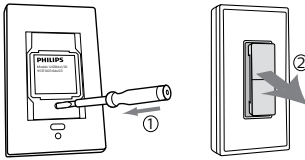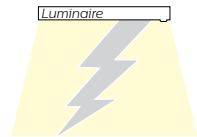

7d. Link the switch

Select the correct wireless channel by pressing and holding one of the small buttons (1) and horizontal bar (2) for at least 10 seconds.
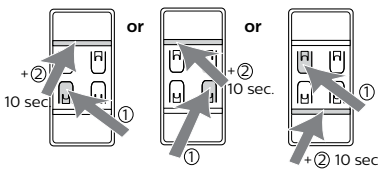
If the switch joins the group then the luminaire will FLASH twice and group light level will go to 5%.


⚠️ **Step 7d is a trial and error process. The 4 buttons signify 4 different wireless channels. To join the switch to the luminaire group the wireless channel of the switch and the luminaire must match. Since the wireless channel of the luminaire is not visible, one has to try out all the 4 channels via the buttons to determine the matching channel as described in step 7e.**
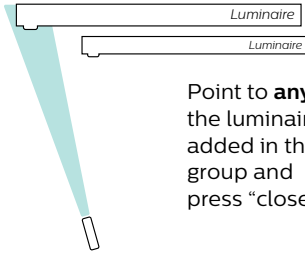
7e. Program the switch

If the switch did not join the group as per step d then repeat step d but with a different button (1) this time.

If the switch joins the group then the luminaire will FLASH twice and group light level will go to 5%.
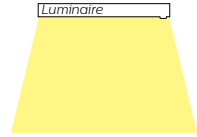
7f. Close group
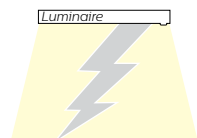
Luminaire

Luminaire

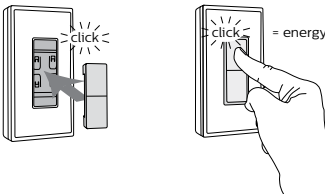Point to **any** of the luminaires added in the group and press "close."

All the luminaires in the group will go to 50% light level.

Luminaire
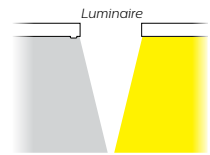

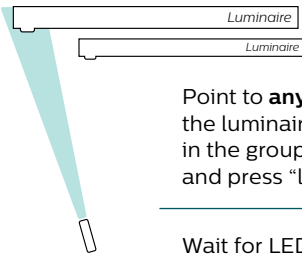## 7g. Test the switch

Install the rocker pad back on the switch and test the switch by pressing the rocker pads.

click

click   = energy

All the luminaires in the group will turn on/off based on the rocker pad action.

Luminaire

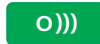## 7h. Lock the group

Luminaire

Luminaire

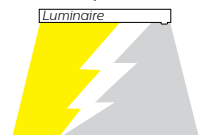Point to **any** of the luminaires in the group and press "lock."

Red LED on remote will start blinking.

Wait for LED to stop blinking (apx. 10 seconds) then press "send."

O)))

The luminaire will FLASH twice and group will turn OFF and ON once for daylight calibration. Group is ready for normal operation.

Luminaire

# 8. Link a wireless scene selector to a group

A maximum of 5 user interfaces, any combination of switches and/or scene selectors can be linked together in a group. The factory default reactions for each button are:

- "**I**" Activates the automatic behavior where the light levels are set by the sensor.

- "**O**" Turns off the lights.

- "•" Recalls scene 2 (default 20%) and overrides the light levels set by the sensor.

- "• •" Recalls scene 3 (default 40%) and overrides the light levels set by the sensor.
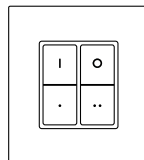
⚠️ **The scene selector can only recall a light level stored as a scene and does not act as a dimmer. For dimming functionality use the wireless switch. A long press action on the scene selector button will delink the scene selector from the SpaceWise group.**

8a. Unlock the group
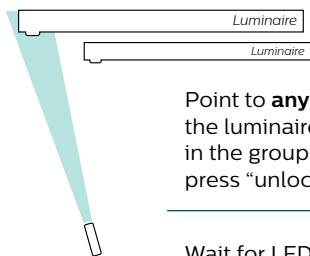
Luminaire
Luminaire

Point to **any** of the luminaires in the group and press "unlock."
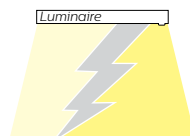
Red LED on remote will start blinking.

Wait for LED to stop blinking (apx. 10 seconds) then press "send."
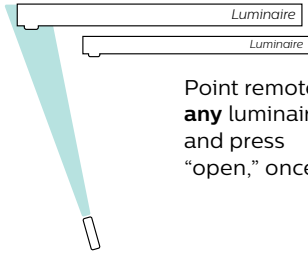
Red LED on remote will stop blinking.

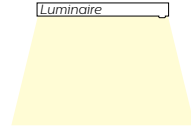The luminaire will FLASH twice and group light level will go to 50%.

Luminaire

8b. Open Group

Luminaire

Luminaire

Point remote to **any** luminaire and press "open," once.

Wait for the the entire luminaire group to dim down to 5%.
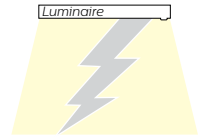
Luminaire

⚠️ **Make sure the button is pressed only once. Pushing multiple times can create multiple networks which can cause undesired operation.**

8c. Link the scene selector

Select the correct wireless channel by pressing and holding one of the 4 buttons for at least 10 seconds and then release the button.
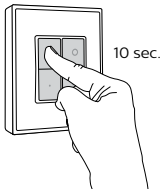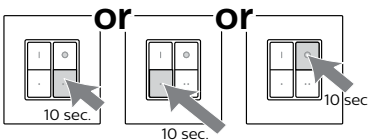
10 sec.

If the switch joins the group then the luminaire will FLASH twice and group light level will go to 5%.
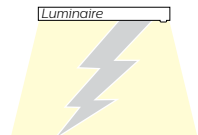
Luminaire

⚠️ **Step 8c is a trial and error process. The 4 buttons signify 4 different wireless channels. To join the scene selector to the luminaire group the wireless channel of the scene selector and the luminaire must match. Since the wireless channel of the luminaire is not visible, one has to try out all the 4 channels via the buttons to determine the matching channel as described in step 8d.**

8d. Program the scene selector

If the switch did not join the group as per step d then repeat step d but with a different button (1) this time.

or **or**

10 sec.

10 sec.

10 sec.

If the switch joins the group then the luminaire will FLASH twice and group light level will go to 5%.
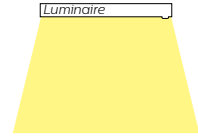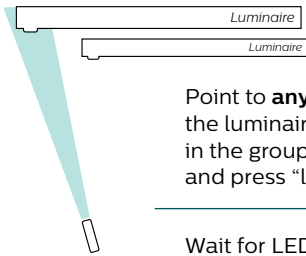
Luminaire

8e. Close group

Luminaire

Luminaire

Point to **any** of the luminaires added in the group and press "close."
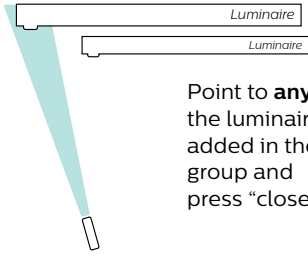
All the luminaires in the group will go to 50% light level.

Luminaire

8f. Lock the group

Luminaire

Luminaire

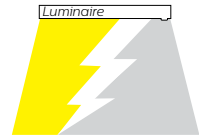Point to **any** of the luminaires in the group and press "lock."

Red LED on remote will start blinking.

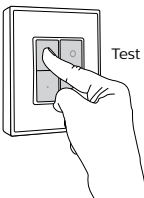Wait for LED to stop blinking (apx. 10 seconds) then press "send."

The luminaire will FLASH twice and group will turn OFF and ON once for daylight calibration. Group is ready for normal operation.
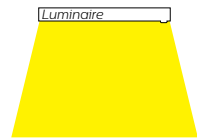
Luminaire

8g. Scene selector

Test the scene selector by pressing the buttons.

All the luminaires in the group will react to the button action.

Luminaire

Test

Industrial
applications

Getting Started: Industrial

Installation and configuration of luminaires with SpaceWise technology

⚠️ **Fixtures must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.**

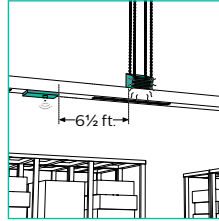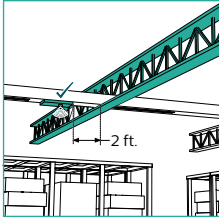# 1. Confirm all components received

Luminaires

SpaceWise remote

Instructions: · Luminaire installation instructions
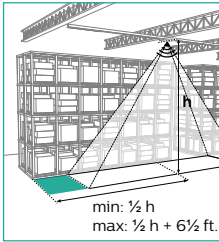(In luminaire box)

· Accessory installation (In accessory box)

Additional information can be found at www.philips.com/spacewise:

· SpaceWise User Manual

· SpaceWise Design Guide

2. Determine luminaire orientation

Do not install the luminaire close to steel or concrete constructions and maintain a safe distance between air outlets and the luminaire.

Orient the first luminaire in the isle in the right position with respect to the edge of the isle.

Install luminaires per manufacturer installation instructions.

3. Plan luminaire wireless groups

Group 1

Group 1   Group 2
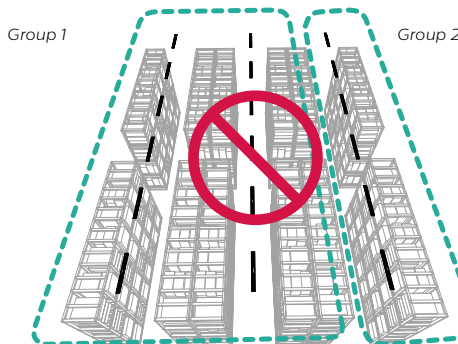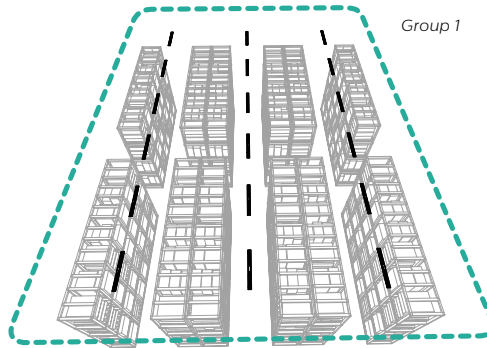
When configuring open plan areas with the SpaceWise Remote, large groups of 30-50 luminaires are recommended to maintain the lighting aesthetics of the space. Smaller groups may turn off more frequently than desired.
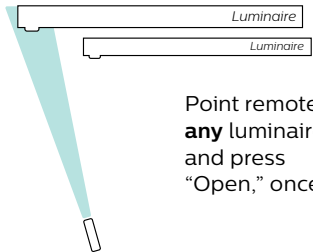
4. Create a group

Grouping is required to initiate system functionality and dimming behaviors.

⚠️ **The Luminaire/s have to be in a factory new state to group them together. If changes were previously made on the luminaires, then perform a factory reset as per the troubleshooting instructions on page 30 of this manual.**

All actions are to be performed by standing underneath a luminaire and pointing the remote directly towards the luminaire sensor.
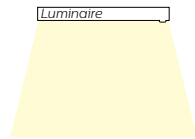

4a. Open Group

Luminaire

Luminaire

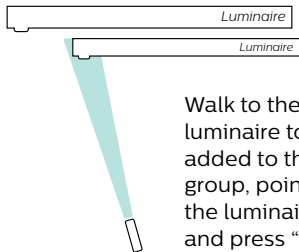Point remote to **any** luminaire and press "Open," once.

Wait for the luminaire to dim down to 5%.

Luminaire

⚠️ **Make sure the button is pressed only once. Pushing multiple times can create multiple networks which can cause undesired operation.**

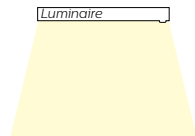# 4b. Add luminaires to group

Luminaire

Luminaire

Walk to the next luminaire to be added to the group, point to the luminaire and press "add."
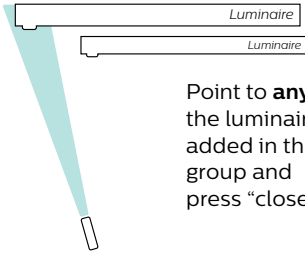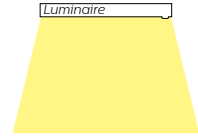
add

Luminaire will dim down to 5%.

Luminaire

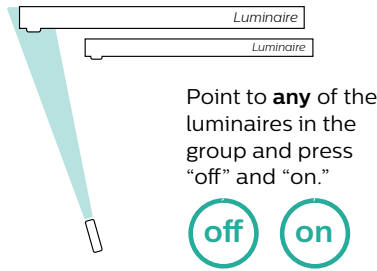Repeat step for adding all the luminaires in the group.

4c. Close group

Luminaire

Luminaire
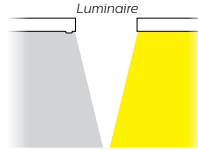
Point to **any** of the luminaires added in the group and press "close."

All the luminaires in the group will go to 50% light level.

Luminaire

4d. Verify the group

Luminaire

Luminaire

Point to **any** of the luminaires in the group and press "off" and "on."

off **on**
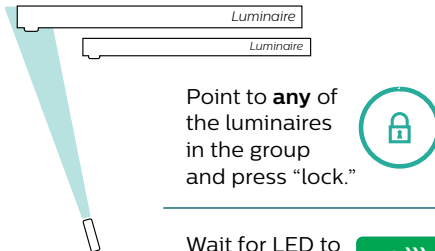
All the luminaires in the group will turn OFF and ON together.

Luminaire

⚠️ **If any luminaires in the group do not turn ON/OFF, they are not part of the group. Go back to step 4a to add the luminaires back in to the group.**
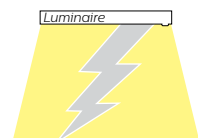
4e. Lock the group

Luminaire

Luminaire

Point to **any** of the luminaires in the group and press "lock."

Red LED on remote will start blinking.

Wait for LED to stop blinking (apx. 10 seconds) then press "send."

o)))

The luminaire will FLASH twice. Group is ready for normal operation.
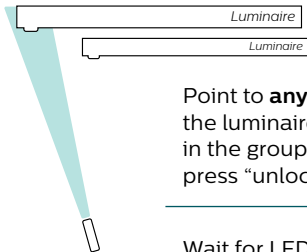
Luminaire

5. Choose an application mode

Choose the desired application mode per group. Behavior varies for each application. See the SpaceWise Design Guide for more details.

Application	ON/OFF behavior	Mode	Hold time[1]	Prolong time[2]
Warehouse	Auto ON/Auto OFF	**6**	2 min	2 min
Gymnasium	Auto ON/Auto OFF	**7**	5 min	5 min
Warehouse Comfort	Auto ON/Auto DIM to Background Level	**8**	2 min	Infinite
Manufacturing	Auto ON/Auto DIM to Background Level	**9**	5 min	Infinite

1. Hold time is the occupancy time out after which the luminaire dims from the task level to the background level.
2. Prolong time is the time for which the luminaire stays at the background level before switching off.
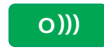
5a. Unlock the group

Luminaire
Luminaire

Point to **any** of the luminaires in the group and press "unlock."
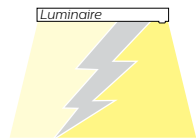
Red LED on remote will start blinking.

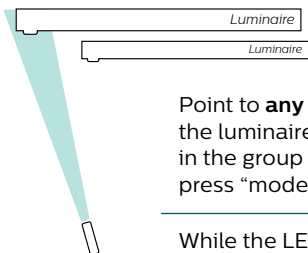Wait for LED to stop blinking (apx. 10 seconds) then press "send."

Red LED on remote will stop blinking.

The luminaire will FLASH twice and group light level will go to 50%.

Luminaire

5b. Set application mode

Luminaire
Luminaire

Point to **any** of the luminaires in the group and press "mode."

mode

Red LED on remote will start blinking.

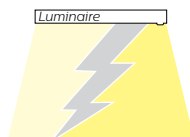While the LED is still blinking red, enter the number for the preferred mode (see list at step **5**).

Point to **any** of the luminaires in the group, press "send."

o)))

The luminaire will FLASH twice and group light level will go to 50%.

Lock the group,refer to step **4e.**

- After locking lighting group is operational in selected mode.
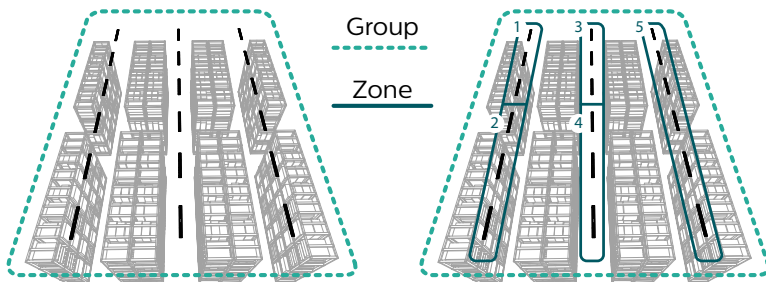
Luminaire

⚠️ **If unsure about mode selection or remote blinking status then wait for the remote blinking to stop and redo step 5b.**

6. Creating zones in a group

Up to 16 zones can be created within a SpaceWise group and each luminaire can be part of just one zone.

All luminaires within the zone will react the same way to any sensor in the zone. That is, all luminaires in the zone will simultaneously increase light level upon motion detection or will simultaneously dim down to background level when there is no motion.

Group
- - - - -

Zone

1 3 5
2 4

⚠️ **Zones can only be created within a group. A group needs be created first as per the instructions in section 4.**

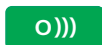# 6a. Unlock the group
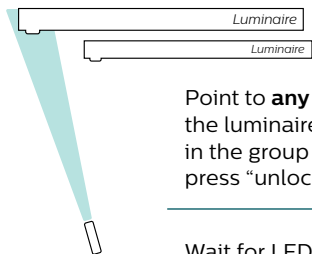
Luminaire

Luminaire

Point to **any** of the luminaires in the group and press "unlock."

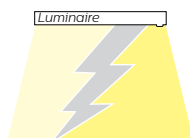Red LED on remote will start blinking.

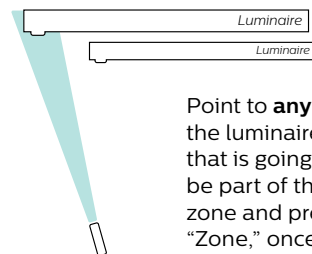Wait for LED to stop blinking (apx. 10 seconds) then press "send."

o)))

Red LED on remote will stop blinking.

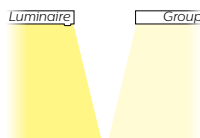The luminaire will FLASH twice and group light level will go to 50%.

Luminaire

6b. Set zone

Luminaire

Luminaire

Point to **any** of the luminaires that is going to be part of the zone and press "Zone," once.

zone

The luminaire will go to 50% while the rest of the luminaires go to 5%.

Luminaire   *Group*

⚠ **Make sure the zone button is pressed only once. Up to 16 zones can be defined and every time the zone button is pressed a new zone creation process is initiated.**
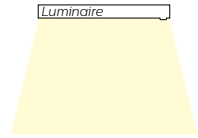
6c.

Build zone

Luminaire
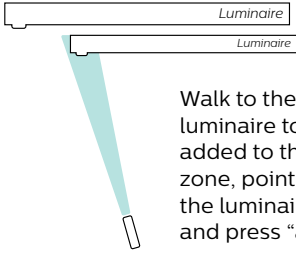
Luminaire

Walk to the next luminaire to be added to the zone, point to the luminaire and press "add."

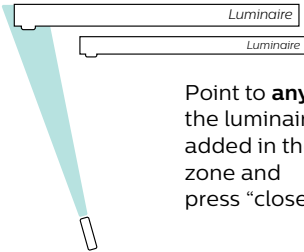**add**

Added luminaire will go to 50%.

Luminaire

Repeat step for adding all the luminaires in the zone.

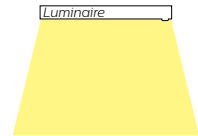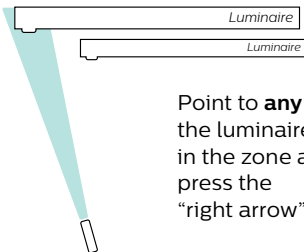⚠️ **To create new zones repeat steps 6b and 6c. Note that a luminaire can only be part of one zone.**

6d.

Close zone

Luminaire

Luminaire

Point to **any** of the luminaires added in the zone and press "close."

All the luminaires in the group will go to 50% light level.
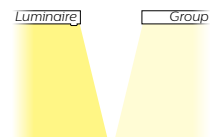
Luminaire

6e.

Test zone

Luminaire

Luminaire

Point to **any** of the luminaires in the zone and press the "right arrow"
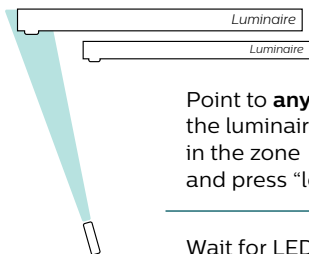
All the luminaires in the selected zone will go to 50% while the luminaires in other zone/s will go to 5%.

Luminaire   *Group*

Press the right arrow key again to move to verify the next zone.

6f. Lock the zone

Luminaire

Luminaire

Point to **any** of the luminaires in the zone and press "lock."
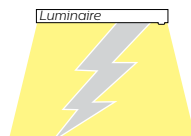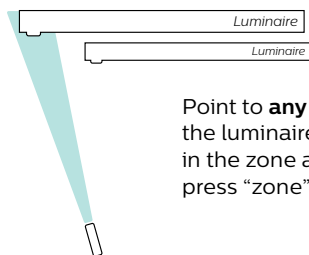
Red LED on remote will start blinking.

Wait for LED to stop blinking (apx. 10 seconds) then press "send."

o)))

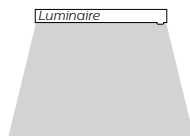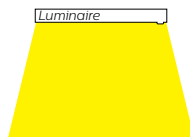The luminaire will FLASH twice. Group is ready for normal operation.

Luminaire

6g. Test zone while locked

Luminaire

Luminaire

Point to **any** of the luminaires in the zone and press "zone"

zone

The entire zone turns on or off accordingly.

Luminaire

Point to the **same** luminaire in the zone and press "on" **or** "off."

on   off

Luminaire

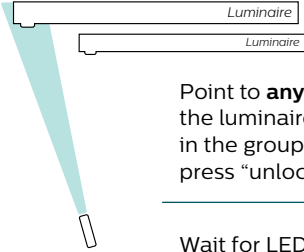To stop the test process, point to the same luminaire and press "close."

7. Daylight Calibration

⚠️ **Daylight calibration should be performed during night time. Daylight calibration is set for all the luminaires in the group.**

7a. Unlock the group

Point to **any** of the luminaires in the group and press "unlock."

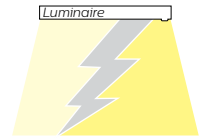Red LED on remote will start blinking.

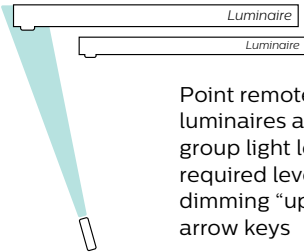Wait for LED to stop blinking (apx. 10 seconds) then press "send."

Red LED on remote will stop blinking.

The luminaire will FLASH twice and group light level will go to 50%.

7b. Calibrate the group

Point remote to any of the luminaires and adjust the group light level to the required level using the dimming "up" or "down" arrow keys
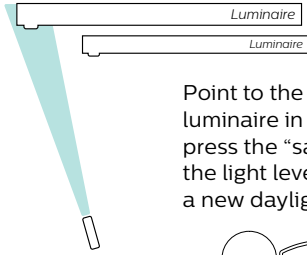
▲ or ▼

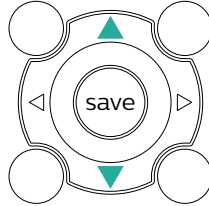When the arrow keys are pressed, red LED on remote will keep blinking.

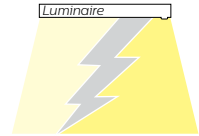The group will dim up or down accordingly.

7c. Save the calibration

Luminaire

Luminaire

Point to the **same** luminaire in the group and press the "save" button, the light level is stored as a new daylight set-point.

save

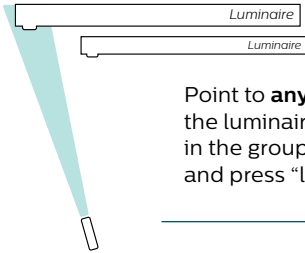Red LED on remote will start blinking.

The luminaire will FLASH twice and group light level will go to 50%.

Luminaire

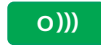# 7d. Lock the new light level

Luminaire

Luminaire

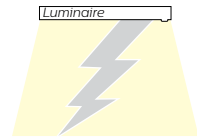Point to **any** of the luminaires in the group and press "lock."

Red LED on remote will start blinking.

Wait for LED to stop blinking (apx. 10 seconds) then press "send."

O)))

The luminaire will FLASH twice and the group will adjust its light level as per the new daylight set point.

Luminaire

& Troubleshooting FAQ
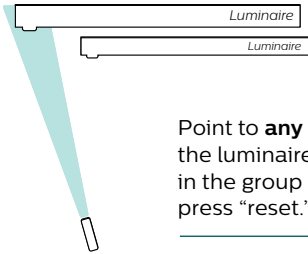
Troubleshooting

⚠️ **Factory reset will restore the luminaire to its default state and all the group configuration settings will be deleted.**

Reset operation can be used to bring any wrongly configured luminaire back to its original factory reset condition.

Unlock the group, refer to step **5a**

· Group will be unlocked for further operation.

Luminaire

Luminaire

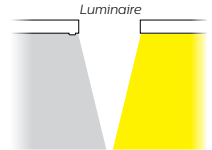Point to **any** of the luminaires in the group and press "reset."

▶O◀
reset

Red LED on remote will start blinking.

Once the LED stops blinking, with remote sill pointing to the same luminaire, press "send."

O)))

Luminaire will turn OFF and then turn back ON to indicate reset.

Luminaire

Repeat step for every luminaire that needs to be reset.

Frequently asked questions

My luminaire group is at low light level and does not respond to SpaceWise remote buttons.

Luminaire may be in "open" group state. "close" the group by referring to instructions in step **4c.**

My luminaires are not turning off at night.

Ensure the luminaire group is in "locked" operational state. Refer to instructions in step **4e** to lock the luminaire group.

Some luminaires do not react with rest of the group on/off command.

Luminaires are not properly grouped with the rest of group. Reset the luminaire by following the instructions on page **30**. Then re-group the luminaire by referring to instructions in step **4**.

My luminaires do not turn on.

If luminaires are in manual "on" mode, they may have been turned "off" by accessory wall switch. Try turning "on" using the switch.

Luminaires can also be accidentally turned off by remote in "unlocked" state. Refer to instruction in step **4e** to "lock" the group.

Do my luminaires forget their settings after power is lost?

No, all settings are retained as long as the luminaires have not been factory reset or there has been a hardware failure.

Technical Support

For technical support please contact 1-800-372-3331 and select the controls prompt option.

PHILIPS