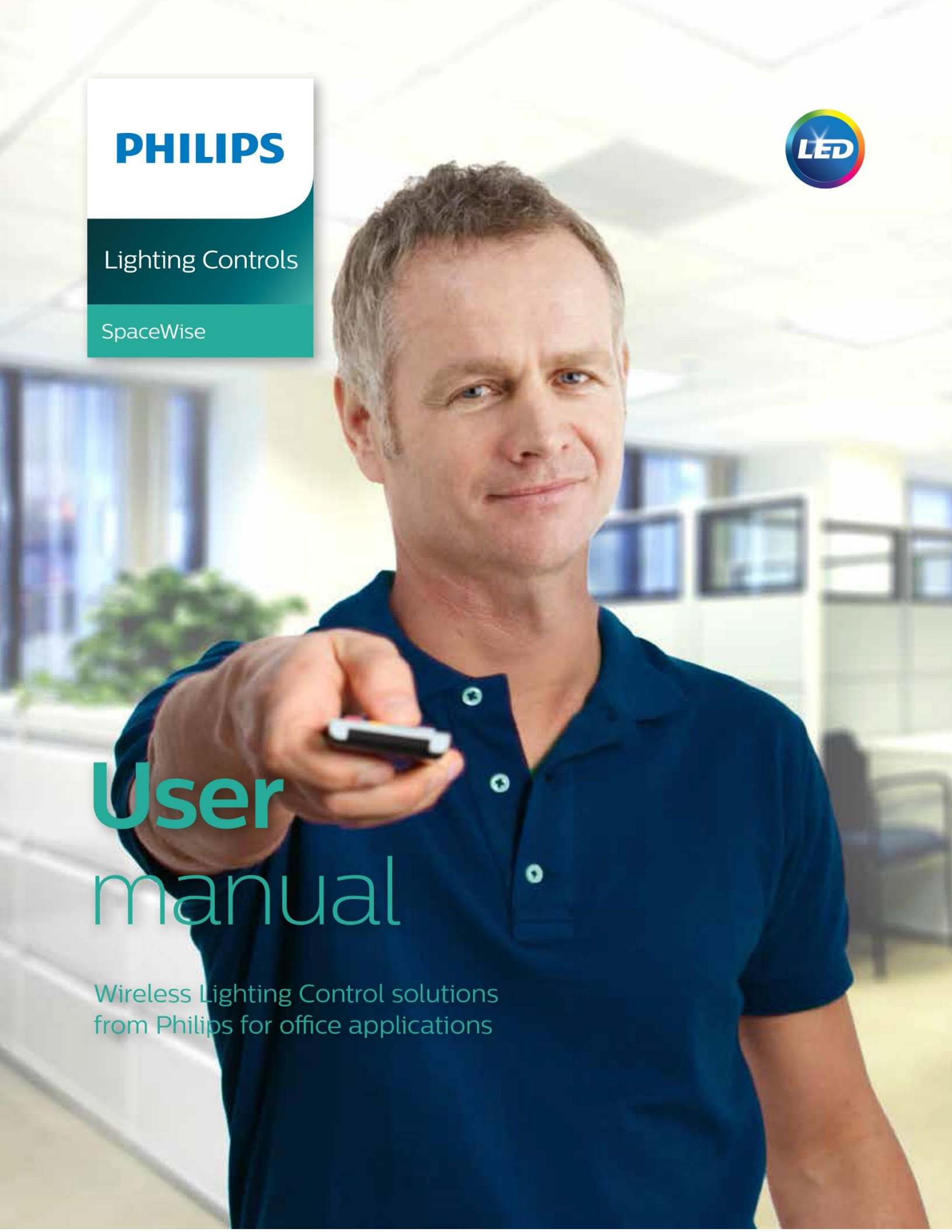
PHILIPS

Lighting Controls

SpaceWise



User manual

Wireless Lighting Control solutions
from Philips for office applications

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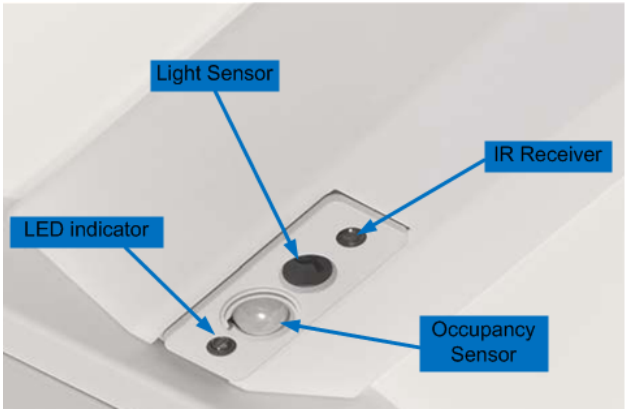
This document should only be used for commissioning a SpaceWise Office System. For Industrial applications, please refer to the commissioning manual of SpaceWise for Industrial Applications.

1. SpaceWise Technology Luminaire

Philips luminaires with wireless SpaceWise Technology are stand-alone LED lighting systems with integrated occupancy sensing and daylight harvesting, designed specifically for office spaces. Automated dimming behaviors are activated after installation using a SpaceWise remote control to create groups and connect wireless switches.

A SpaceWise Technology Luminaire contains an integrated MultiSensor which comprises of the following elements –



PIR based occupancy sensor: For detecting motion

Light sensor: For daylight dependent light level regulation

LED indicator: Red indication when motion is detected or yellow indication when motion is not detected

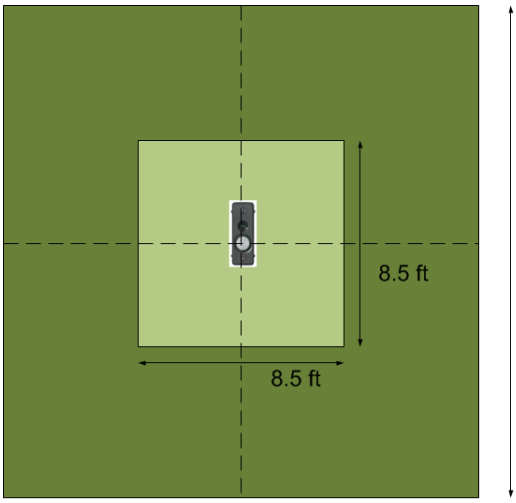
IR receiver: For receiving signals from the commissioning remote (IRT 9090)

A maximum of 50 luminaires can be grouped together using the SpaceWise remote. Users can pick a high, normal, low or minimum max light output per group to accommodate partition height, reflectances and light level requirements. Out of the box a group of SpaceWise Technology luminaires are optimized to deliver approximately 88% of the full light output of the luminaire under the following standard application space parameters:

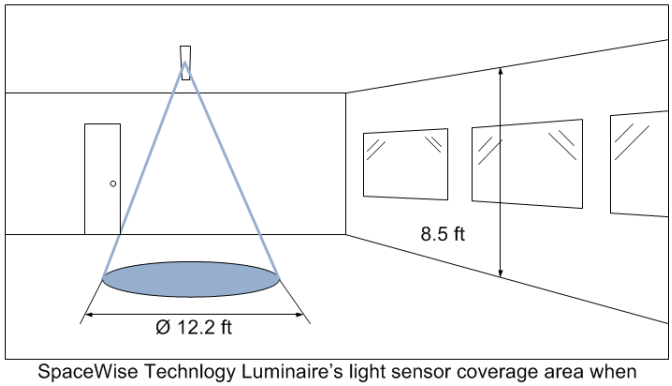
Luminaire length	Celling grid	Ceiling height	Partition height	Workstation
4 ft.	8 ft. x 10 ft.	8 to 9 ft	4.5 ft.	8 ft. x 12 ft. 2.5 ft.
2 ft.	8 ft. x 8 ft.	8 to 9 ft.	4.5 ft.	8 ft. x 12 ft. 2.5 ft.

For nonstandard application space parameters which demand above average max light output light levels a high setting option must be selected while for spaces which require below average max light output levels a low or minimum setting option must be selected. Please refer to section 6 “Maximum light output selection.” It is recommended to consult with the respective lighting designer or the facility manager for the desired light level requirements.

1.1 SpaceWise Technology Luminaire sensor coverage area



SpaceWise Technology Luminaire's minor and major motion sensing coverage area when mounted at a height of 8.5 ft.

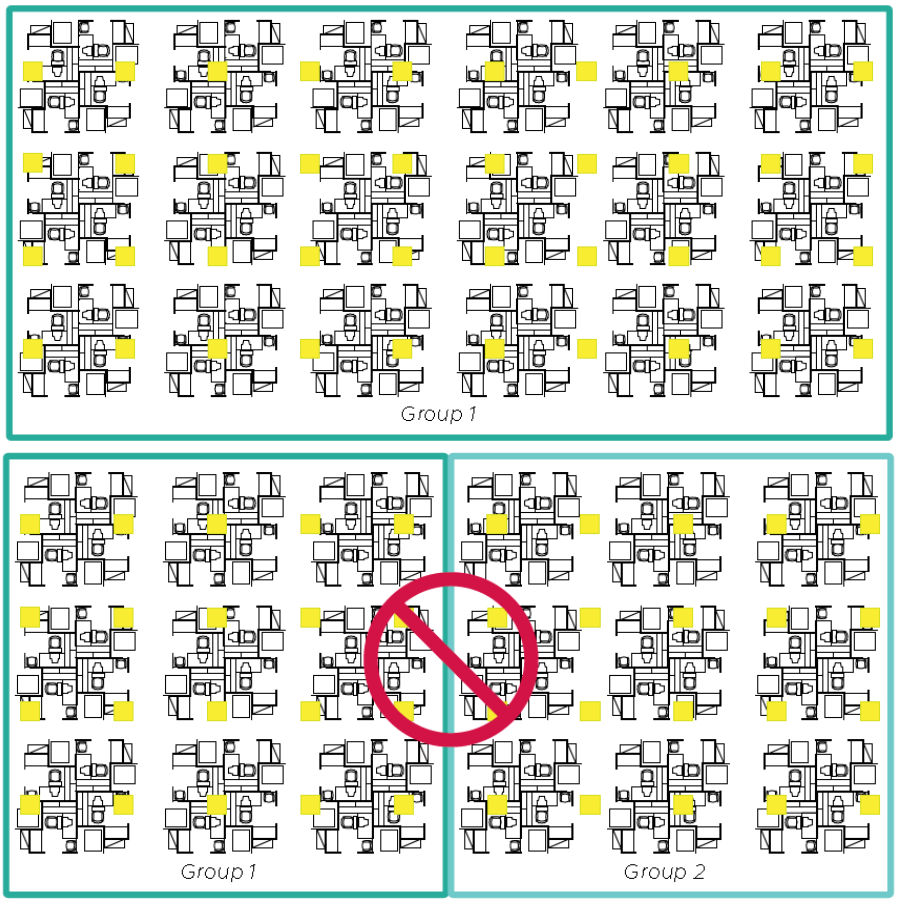


SpaceWise Technlogy Luminaire's light sensor coverage area when mounted at a height of 8.5 ft.

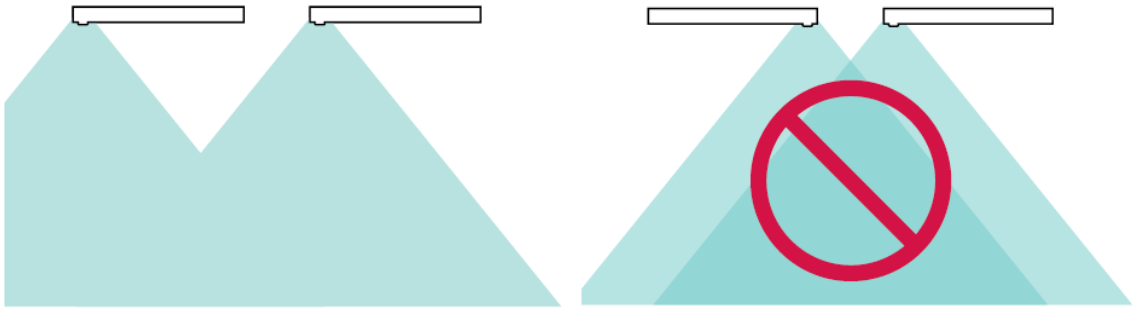
To limit unwanted motion detection, the coverage of the luminaire can be restricted by the sensor shield. The shield is a plastic circular ring located around the occupancy sensor lens. To install the shield, first pull out the ring completely and then reinsert it backwards so that the elongated part of the shield is facing downwards.

2. Layout

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.



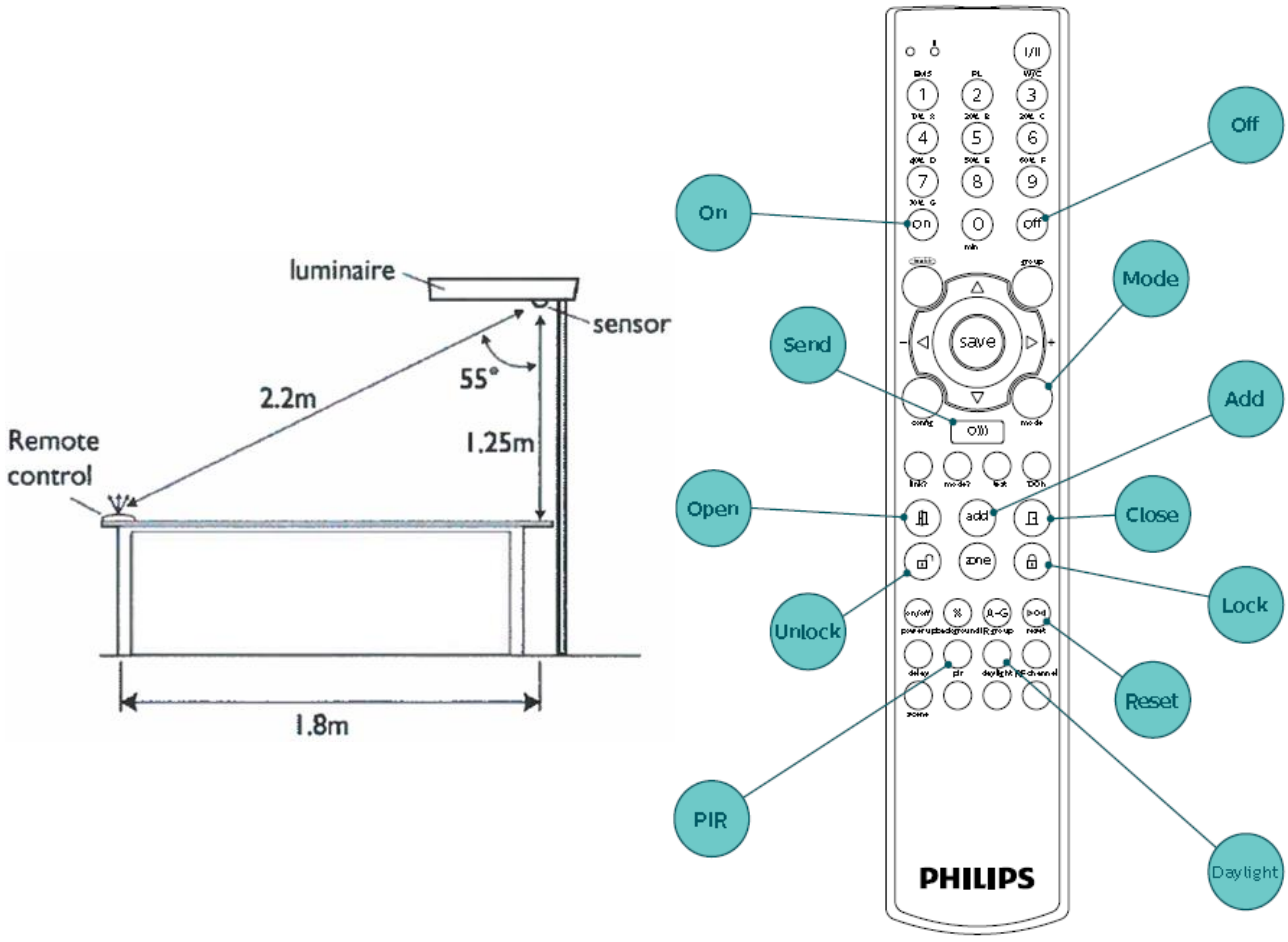
Install luminaires per manufacturer installation instructions and ensure sensors from adjacent luminaires are not positioned next to one another.



3. SpaceWise Remote (IRT 9090)

The SpaceWise remote is the only tool required by the installer to group the SpaceWise Technology Luminaires together and to change any default configuration settings. A set of 2 AAA batteries of 1.5V each are supplied with the remote. Before proceeding to the commissioning instructions, make sure that the batteries are correctly installed in the remote and the luminaires are powered. The angle under which the IR receiver in the sensor will receive signal is a 55 degree angle.

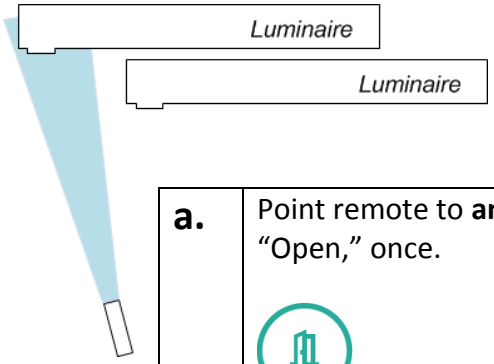
PREPLAN WHICH FIXTURES YOU'LL WANT TO BE IN A GROUP, AND TRY TO ANSWER QUESTIONS BEFORE STARTING SO YOU CAN COMPLETE & LOCK WITHOUT DISTRACTIONS.

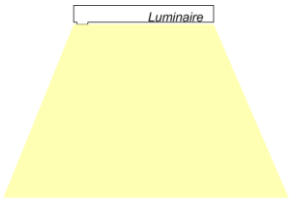
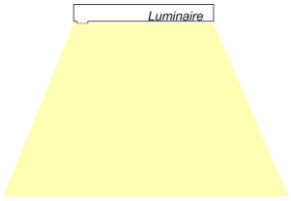
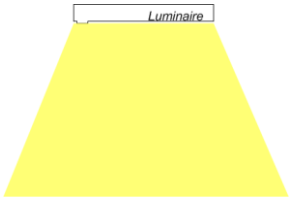


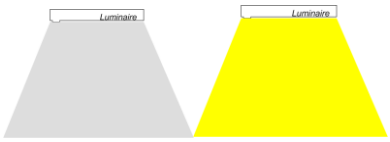
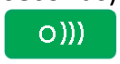
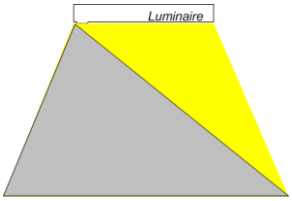
4. Grouping

Grouping is required to initiate system functionality and dimming behaviors.

The Luminaires 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 instructions in section 12 "Troubleshooting" **before proceeding.**



a.	Point remote to **any** luminaire and press "Open," once.	Wait for the luminaires 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.	
b.	Walk to the next luminaire to be added to the group, point to the luminaire and press "add." Repeat step for adding all the luminaires in the group.	Added luminaire will dim down to 5%. 
c.	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. 

d.	Verify the group by pointing to **any** of the luminaires in the group and pressing “off” and “on.” 	All the luminaires in the group will turn OFF and ON together. 
	If any luminaires in the group do not turn ON/OFF, they are not part of the group. Go back to step “a” to add the luminaires back in to the group.	
e.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.” 	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for daylight calibration. Group is ready for normal operation. 
	Once the group is locked it will not accept any configuration changes. To make any changes the group has to be unlocked first. In order to save time, you can choose to lock the group after finishing all configuration changes such as max light level changes, scene customization, etc have been executed. **Refer to the FAQ section for additional information on how to correct non responsive luminaires.**	

5. Application Modes

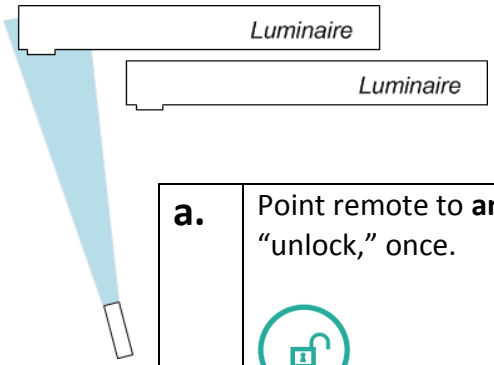
Various application modes are supported within SpaceWise Technology. Since behavior varies for each mode so it is recommended to select the mode that closely reflects the installed application space. See the SpaceWise Design Guide (www.philips.com/spacewise) for details.

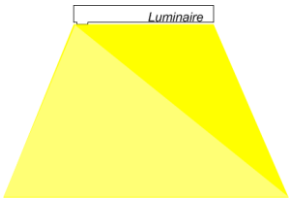
Application	ON/OFF behavior	Mode
Open Office	Auto ON/Auto OFF	24
Open Office	Manual ON/Auto OFF	25
Private Office/Meeting Room	Auto ON/Auto OFF	1
Private Office/Meeting Room	Manual ON/Auto OFF	3
Corridors and Stairwells	Auto ON/Auto OFF	26
Corridors and Stairwells	Auto ON/No Auto Shutoff	5

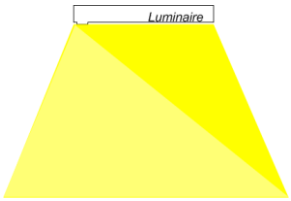
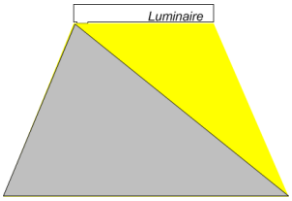
Application setting	Mode 1: Private Office/ Meeting Room - Auto On	Mode 3: Private Office/Meeting Room - Manual On	Mode 24: Open Office – Auto On	Mode 25: Open Office – Manual On	Mode 26: Corridors & Stairwells	Mode 5: Corridors & Stairwells
Out of the box behavior	**Behavior of the luminaires before grouping or being altered via the commissioning remote.**					
Power-up state	On	On	On	On	On	On
Hold Time[1]	10 min	10 min	10 min	10 min	10 min	10 min
Background Level	25%	25%	25%	25%	25%	25%
Prolong Time[2]	Infinite	Infinite	Infinite	Infinite	Infinite	Infinite
Start-up and Dim behavior	**Behavior of the luminaires after grouping.**					
Background Level	27%	27%	27%	27%	27%	10%
Fading to Switch On	1s	1s	1s	1s	1s	1s
Hold Time	10 min	10 min	10 min	10 min	5 min	5 min
Fading to Background Level	10s	10s	10s	10s	10s	10s
Prolong Time	15 min	0 min	15 min	0 min	15 min	Infinite
Occupancy Mode	Auto On / Auto Off	Manual On / Auto Off	Auto On / Auto Off	Manual On / Auto Off	Auto On / Auto Off	Auto On / No Auto Shutoff

[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.

6. Application Mode Selection



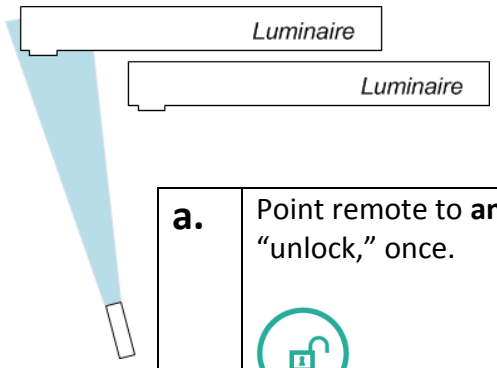
a.	Point remote to **any** luminaire and press "unlock," once. Wait for LED to stop blinking (apx. 10 seconds). Point remote to **any** of the luminaires and press "send." 	Red LED on remote will start blinking. Red LED on remote will stop blinking. The luminaire will FLASH twice and group light level will go to 50%. 
b.	Point to **any** of the luminaires in the group and press "mode." While the LED is still blinking red, enter the number for the preferred mode (see list at step 5).	Red LED on remote will start blinking. Red LED on remote will stop blinking.

	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%. 
	If unsure about mode selection or remote blinking status then wait for the remote blinking to stop and redo step “b.”	
c.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.” O)))	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for Daylight calibration. Group is ready for normal operation. 

7. Maximum light output selection

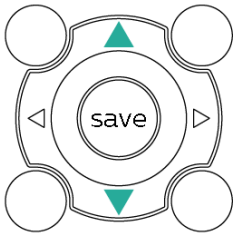
Choice of max light output per group will be influenced by existing conditions such as partition height, reflectances, light level preference and energy goals.

Light output setting	Percentage
High	100%
Medium (default)	88%
Low	77%
Minimum	66%



a.	Point remote to **any** luminaire and press “unlock,” once. Wait for LED to stop blinking (apx. 10 seconds). Point remote to **any** of the luminaires and press “send.”	Red LED on remote will start blinking. Red LED on remote will stop blinking. The luminaire will FLASH twice and group light level will go to 50%.

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.

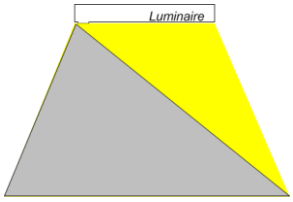


b.	*FOR EACH STEP UP OR DOWN:* Point to **any** of the luminaires in the group and press "daylight." daylight While the LED is still blinking red, select: OR Then press "send." *END OF STEP*	Red LED on remote will start blinking. Red LED on remote will stop blinking. This will move the light output setting by one step. The luminaire may or may not flash at the end of the step depending upon firmware version.

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

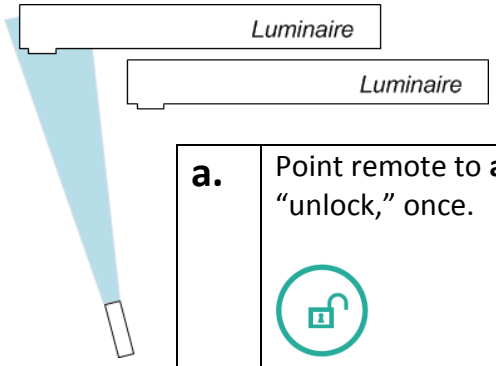
Medium to High: Will move light output setting from default of 88% to 100%.
Medium to low: Will move light output setting from default of 88% to 77%.
Low to minimum: Will move light output setting from 77% to 66%.

During programming, the fixture is temporarily at 50% (unlocked state). So, while changing the light level from default 88% to 77%, you will notice the fixture getting brighter because it is actually going from the temporary 50% light level to permanent 77% light level. If you repeat the step down sequence again then upon careful observation you will see the subtle change in light level from 77% to 66%.

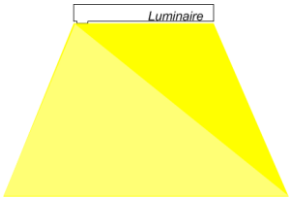
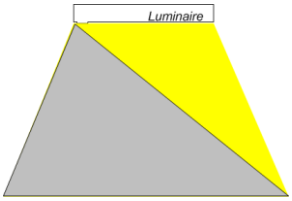
c.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.” 	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for Daylight calibration. Group is ready for normal operation. 

8. Activate / Deactivate occupancy sensor

Occupancy sensor is active by default. Changes have to be performed on each luminaire in the group.

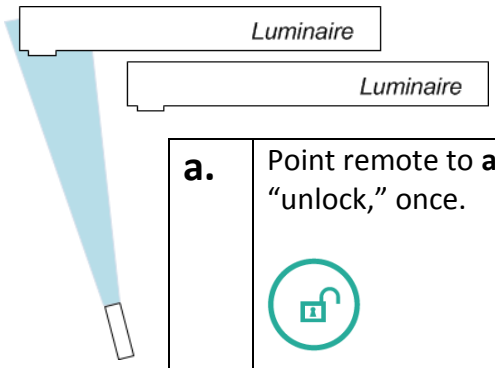


a.	Point remote to **any** luminaire and press "unlock," once. Wait for LED to stop blinking (apx. 10 seconds). Point remote to **any** of the luminaires and press "send." o)))	Red LED on remote will start blinking. Red LED on remote will stop blinking. The luminaire will FLASH twice and group light level will go to 50%. Luminaire
b.	Press "pir" button. pir While the LED is still blinking red, enter the numbers: "**10**": Enable occupancy sensing "**12**": Disable occupancy sensing (lights will stay at 100%)	Red LED on remote will start blinking. Red LED on remote will stop blinking.

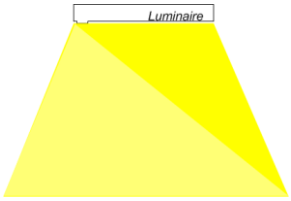
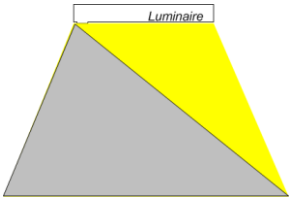
	Point to the luminaire that needs to be altered, press “send.” O)))	The luminaire will FLASH twice and group light level will go to 50%. 
	Repeat step “b” for all the luminaires that need to be reconfigured.	
c.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.” O)))	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for Daylight calibration. Group is ready for normal operation. 

9. Activate / Deactivate daylight sensor

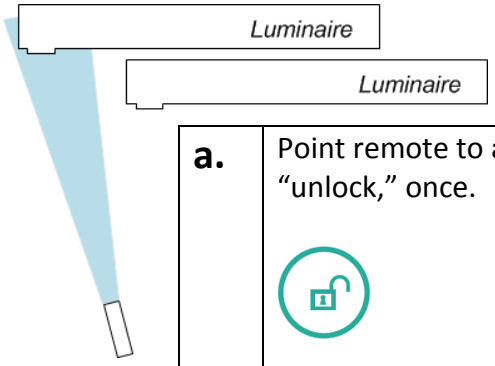
Daylight sensor is active by default. Changes have to be performed on each luminaire in the group.

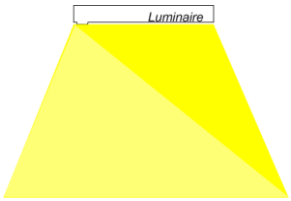


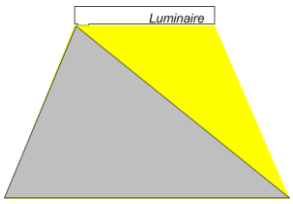
a.	Point remote to **any** luminaire and press "unlock," once. Wait for LED to stop blinking (apx. 10 seconds). Point remote to **any** of the luminaires and press "send." O)))	Red LED on remote will start blinking. Red LED on remote will stop blinking. The luminaire will FLASH twice and group light level will go to 50%. Luminaire
b.	Press "daylight" button. daylight While the LED is still blinking red, enter the numbers: "**1**": Disable daylight sensing "**2**": Enable daylight sensing	Red LED on remote will start blinking. Red LED on remote will stop blinking.

	Point to the **luminaire that needs to be altered**, press “send.” o)))	The luminaire will FLASH twice and group light level will go to 50%. 
	Repeat step “b” for all the luminaires that need to be reconfigured.	
c.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.” o)))	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for Daylight calibration. Group is ready for normal operation. 

10. Test occupancy coverage area (walk test)



a.	Point remote to **any** luminaire and press “unlock,” once. Wait for LED to stop blinking (apx. 10 seconds). Point remote to **any** of the luminaires and press “send.” 	Red LED on remote will start blinking. Red LED on remote will stop blinking. The luminaire will FLASH twice and group light level will go to 50%. 
b.	Point remote to **any** of the luminaires and press “test.” To stop the test feature, press the “test” button again.	Test feature is activated; users can now walk in the space to estimate the occupancy coverage area.

c.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.”	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for Daylight calibration. Group is ready for normal operation. 

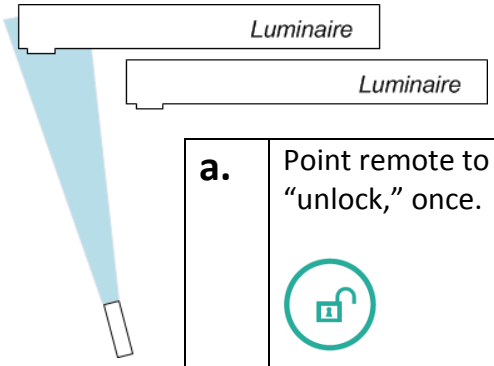
11. Path of egress mode for emergency applications

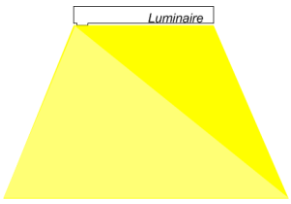
For emergency applications the luminaire can be configured as “path of egress” luminaire wherein the automatic turn off feature is disabled. The luminaire behaves in accordance with the commissioned group and the only difference is that it never automatically turns off; instead, if the space is unoccupied then background light level of 27% will be delivered.

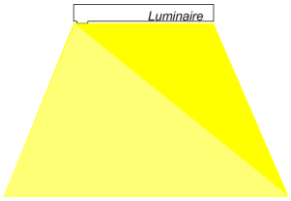
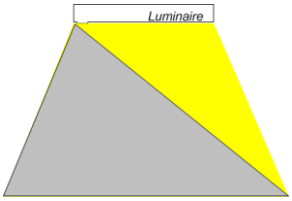
SpaceWise luminaires can also be ordered with a Philips emergency driver option[3]. If this configuration is purchased then luminaires don’t have to be configured as “path of egress” because of the built in battery capability of the emergency driver and the non-reliance on the generator back up system. During emergency, the battery will bypass the sensors and therefore the luminaire will not shut off automatically. When normal power is restored the luminaire will behave like a standard SpaceWise system.

The “path of egress” luminaire should be powered on the emergency circuit. As long as the luminaire is powered an adequate light level will be delivered by the luminaire. The emergency circuit is usually regulated by the backup generator so the system relies on the generator’s ability to provide power for at least 90 minutes.

[3] For Evokit, emergency backup drivers have to be ordered separately and need to be field installed.

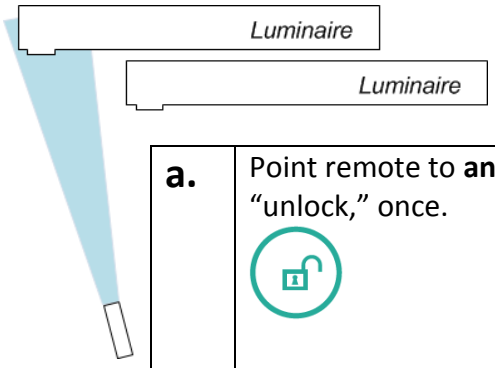


a.	Point remote to **any** luminaire and press “unlock,” once. Wait for LED to stop blinking (apx. 10 seconds). Point remote to **any** of the luminaires and press “send.” 	Red LED on remote will start blinking. Red LED on remote will stop blinking. The luminaire will FLASH twice and group light level will go to 50%. 
b.	Press “pir” button. While the LED is still blinking red, enter the numbers: “**11**”: Enable path of egress feature “**10**”: Disable path of egress feature	Red LED on remote will start blinking. Red LED on remote will stop blinking.

	Point to the luminaire that needs to be altered, press “send.” O))) Repeat step on all the luminaires that need to be configured with the path of egress feature.	The luminaire will FLASH twice and group light level will go to 50%. 
C.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.” O)))	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for Daylight calibration. Group is ready for normal operation. 

12. 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.

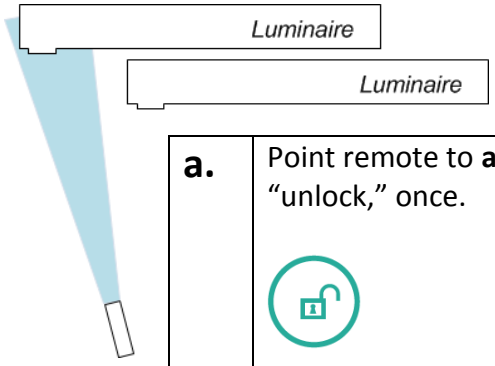


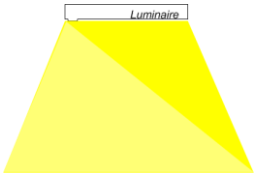
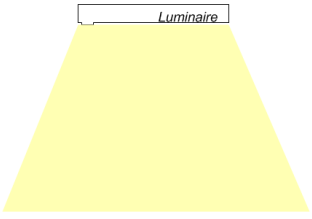
a.	Point remote to **any** luminaire and press “unlock,” once. Wait for LED to stop blinking (apx. 10 seconds). Point remote to **any** of the luminaires and press “send.”	Red LED on remote will start blinking. Red LED on remote will stop blinking. The luminaire will FLASH twice and group light level will go to 50%.
b.	Point to **any** of the luminaires in the group and press “reset.” reset Once LED stops blinking, with remote still pointing to the luminaire in the group, press “send.”	Red LED on remote will start blinking. Luminaire will turn OFF and then turn back ON to indicate reset.
	Repeat step “b” for all the luminaires that need to be reset.	

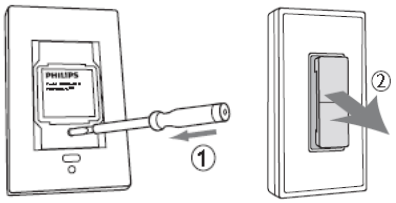
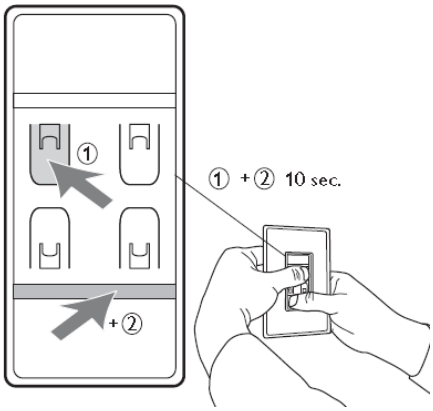
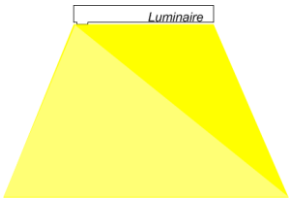
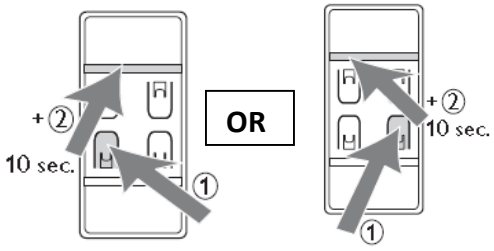
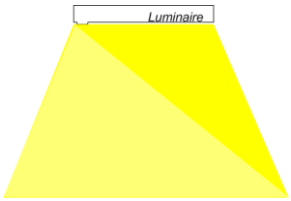
13. Linking a wireless switch to the SpaceWise group

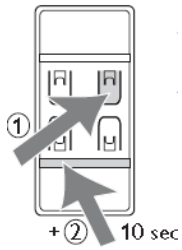
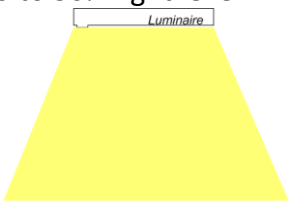
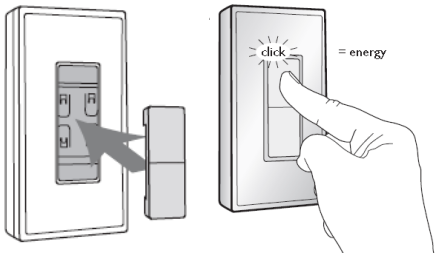
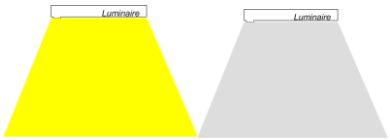
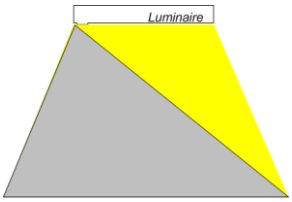
A maximum of 5 user interfaces, any combination of switches and/or scene selectors, can be linked together in a group. The switch uses EnOcean technology and does not need batteries or any power supply. Every time the switch is physically pressed it generates energy and transmits a wireless message to 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.



a.	Point remote to **any** luminaire and press "unlock," once. Wait for LED to stop blinking (apx. 10 seconds). Point remote to **any** of the luminaires and press "send." 	Red LED on remote will start blinking. Red LED on remote will stop blinking. The luminaire will FLASH twice and group light level will go to 50%. 
b.	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.	

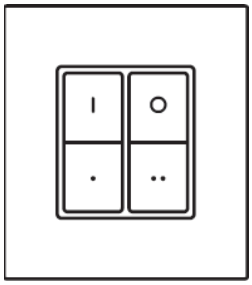
c.	Remove the rocker pad cover of the switch by applying pressure at the back of the switch. You will find 4 small buttons behind the rocker pad. 	
d.	Select the correct wireless channel by pressing and holding one of the small buttons (1) and horizontal bar (2) for at least 10 seconds and then release the buttons. 	If the switch joins the group then the luminaire will FLASH twice and group light level will go to 5%. 
⚠	**Step "d" 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 "e."**	
e.	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 switch has joined the group then go to step "f." 	If the switch joins the group then the luminaire will FLASH twice and group light level will go to 5%. 

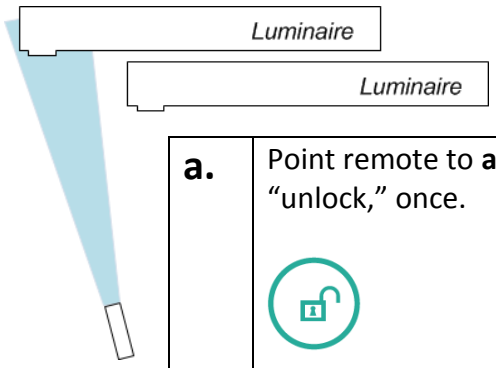
	OR 	
f.	Point to **any** of the luminaires in the group and press “close.”	All the luminaires in the group will go to 50% light level. 
g.	Install the rocker pad back on the switch and test the switch by pressing the rocker pads. 	All the luminaires in the group will turn on/off based on the rocker pad action. 
h.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.”	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for Daylight calibration. Group is ready for normal operation. 

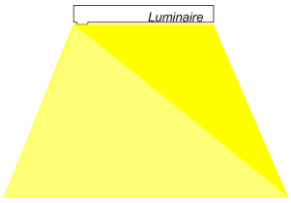
14. Linking a wireless scene selector to the SpaceWise group

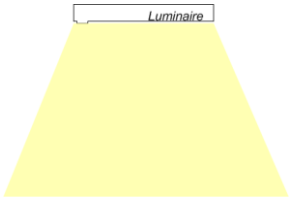
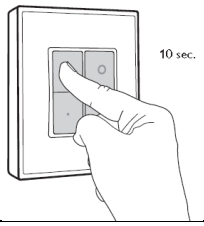
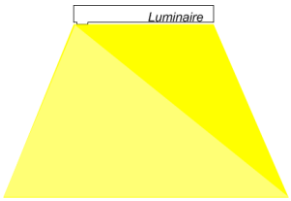
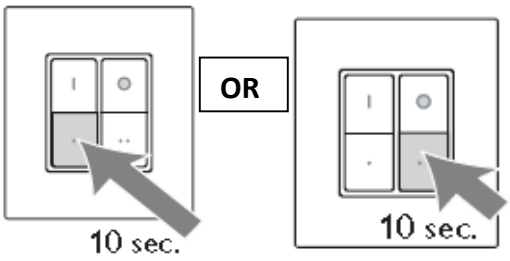
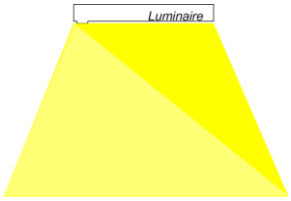
A maximum of 5 user interfaces, any combination of switches and/or scene selectors can be linked together in a group. The scene selector uses EnOcean technology and does not need batteries or any power supply. Every time the switch is physically pressed it generates energy and transmits a wireless message to the luminaires. The factory default reactions for each button are:

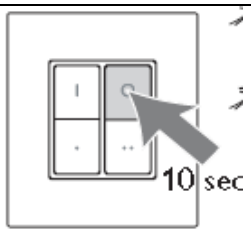
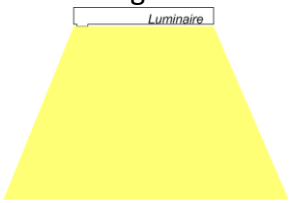
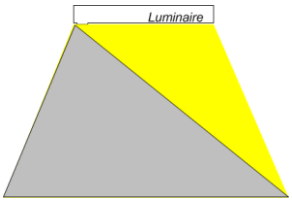
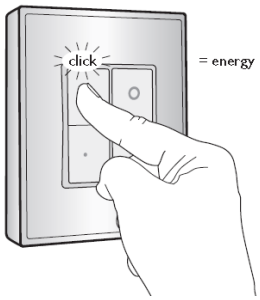
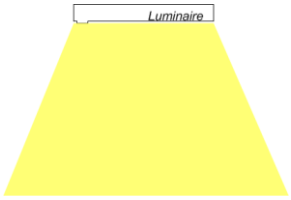
- "**I**" Activates the automatic behavior where the light levels are set by the sensor.
- "**O**" Turns off the lights.
- "**.**" Recalls scene 2 (default 20%) and overrides the light levels set by the sensor.
- "**..**" Recalls scene 3 (default 40%) and overrides the light levels set by the sensor.





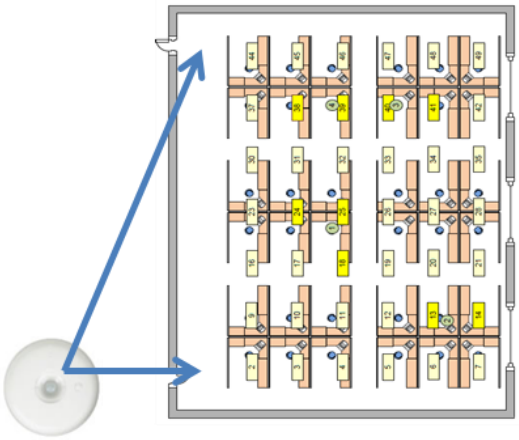
a.	Point remote to **any** luminaire and press "unlock," once. Wait for LED to stop blinking (apx. 10 seconds). Point remote to **any** of the luminaires and press "send." 	Red LED on remote will start blinking. Red LED on remote will stop blinking. The luminaire will FLASH twice and group light level will go to 50%. 

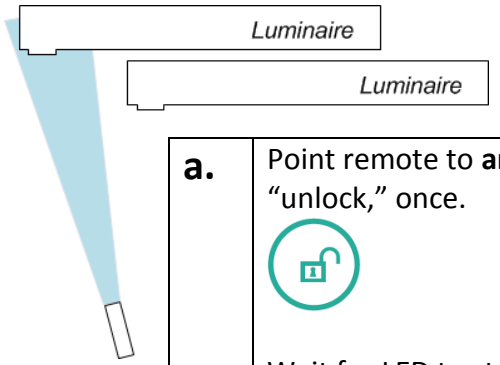
b.	Point remote to **any** luminaire and press "Open," once.	Wait for the luminaire to dim down to 5%. 
	Make sure the button is pressed only once. Pushing multiple times can create multiple networks which can cause undesired operation.	
c.	Select the correct wireless channel by pressing and holding one of the 4 buttons for at least 10 seconds and then release the button. 	If the switch joins the group then the luminaire will FLASH twice and group light level will go to 5%. 
	Step "c" 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 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 "d."	
d.	If the scene selector did not join the group as per step "c" then repeat step "c" but with a different button (1) this time. If scene selector has joined the group then go to step "e." 	If the scene selector joins the group then the luminaire will FLASH twice and group light level will go to 5%. 

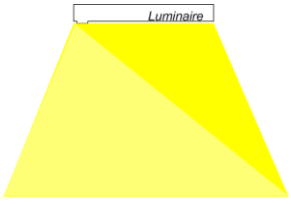
	OR 	
e.	Point to **any** of the luminaires in the group and press “close.”	All the luminaires in the group will go to 50% light level. 
f.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.”	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for Daylight calibration. Group is ready for normal operation. 
g.	Test the scene selector by pressing the buttons. 	All the luminaires in the group will react to the button action. 

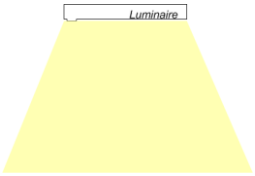
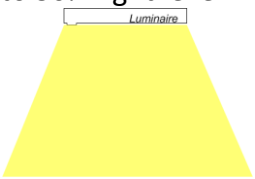
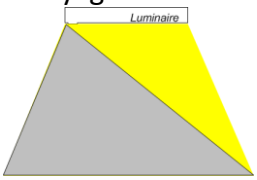
15. Linking an external wireless ceiling sensor to the SpaceWise group

The OccuSwitch wireless (OSW) sensor can be used to increase the detection area of the luminaire group. For example, in applications where there are no luminaires near the passage way entrance, an OSW ceiling sensor can be installed near the entrance to detect an incoming occupant and trigger the group lights thereby avoiding the possibility of any dark passage way for the user.





a.	Point remote to **any** luminaire and press “unlock,” once. Wait for LED to stop blinking (apx. 10 seconds). Point remote to **any** of the luminaires and press “send.” 	Red LED on remote will start blinking. Red LED on remote will stop blinking. The luminaire will FLASH twice and group light level will go to 50%. 

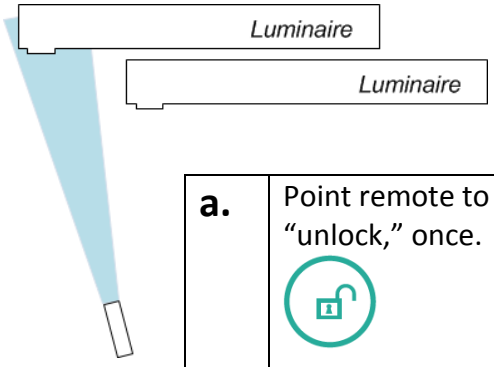
b.	Point remote to **any** luminaire and press “Open,” once.	Wait for the luminaire to dim down to 5%. 
	Make sure the button is pressed only once. Pushing multiple times can create multiple networks which can cause undesired operation.	
c.	Press the “link” button on the sensor once.	Yellow LED indicator on OSW sensor will start blinking. The LED indicator on OSW sensor will turn green upon successful linking of the sensor to the group.
	If the OSW sensor fails to join the group then red LED will turn on. In case of failure repeat step “c.”	
d.	Point to **any** of the luminaires in the group and press “close.”	All the luminaires in the group will go to 50% light level. 
e.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.”	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for Daylight calibration. 

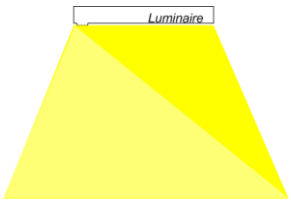
16. Creating zones in a group

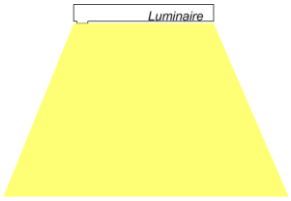
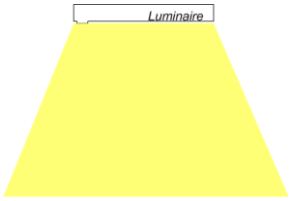
When a group is created with zones, occupancy detected by one SpaceWise luminaire is distributed across the zone and also across the whole group. All luminaires within the zone, where occupancy has been detected, will react in the same way. All other luminaires that are in the same group but in a different or no zone will react on the occupancy signal by going to background level.

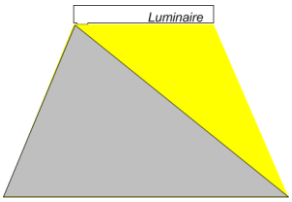
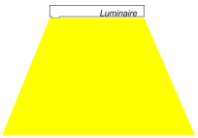
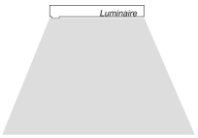
Zones can only be created within a group so a group should be created first as per the instructions in section 4.

Switch and the scene selector cannot be added to the zone. They can only be linked at a group level.



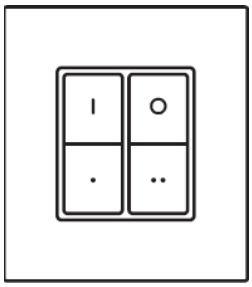
a.	Point remote to **any** luminaire and press "unlock," once.	Red LED on remote will start blinking.
	Wait for LED to stop blinking (apx. 10 seconds).	Red LED on remote will stop blinking.
	Point remote to **any** of the luminaires and press "send."	The luminaire will FLASH twice and group light level will go to 50%. 

b.	Point remote to **any** luminaire that is going to be part of the zone and press "Zone," once. 	The luminaire will go to 50% while the rest of the luminaires go to 5%.
	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.	
c.	Walk to the next luminaire to be added to the zone, point to the luminaire and press "add." Repeat step for adding all the luminaires in the zone.	Added luminaire will go to 50%. 
	To create new zones execute steps "b" and "c" again. Note that a luminaire can only be part of one zone.	
d.	To stop the zone creation process, point to **any** of the luminaires added in the zone and press "close." 	All the luminaires in the group will go to 50%. 
e.	To test the zone, point to any luminaire and press the "right arrow" key. Press the right arrow key again to move to verify the next zone.	All the luminiare in the selected zone will go to 50% while the luminaires in the other zone will go to 5%.

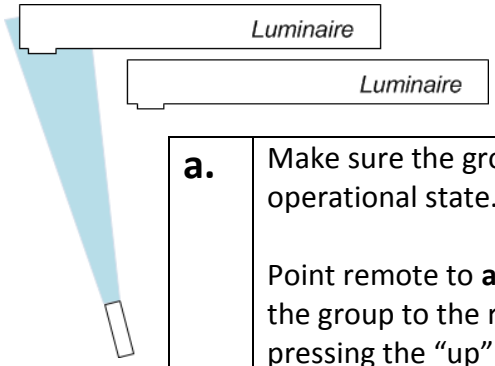
f.	Point to any of the luminaires in the group and press “lock.” Wait for LED to stop blinking (apx. 10 seconds) then press “send.” 	Red LED on remote will start blinking. The luminaire will FLASH twice and group will turn OFF and ON once for Daylight calibration. Group is ready for normal operation. 
g.	Alternately zones can also be re-tested after locking the group. Point remote to **any** of the luminaires in the created zone and press “zone”. Point to the same luminaire and press “on” or “off.” To stop the test process, point to the same luminaire and press “close.” 	The entire zone turns on or off accordingly.  

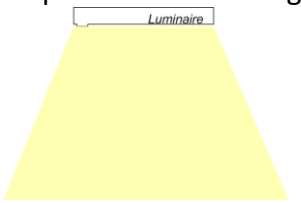
17. Altering the default scenes on the scene selector (with no zones)

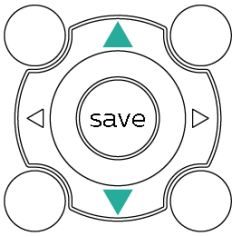
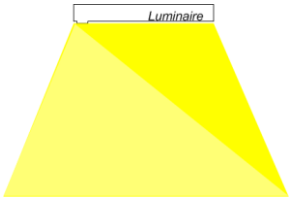
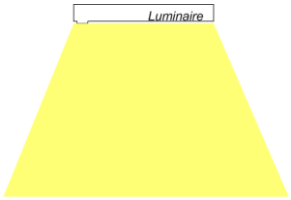
The default scenes available on the scene selector are:



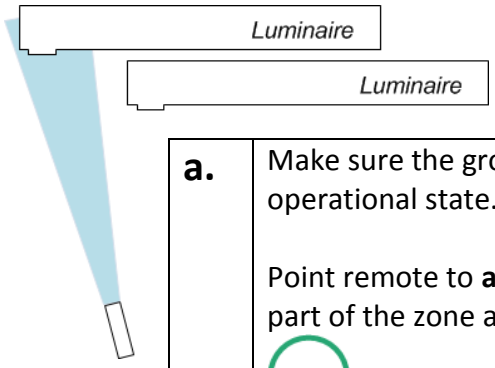
- "**I**" Activates the automatic behavior where the light levels are set by the sensor.
- "**O**" Turns off the lights.
- "**.**" Recalls scene 2 (default 20%) and overrides the light levels set by the sensor.
- "**..**" Recalls scene 3 (default 40%) and overrides the light levels set by the sensor.

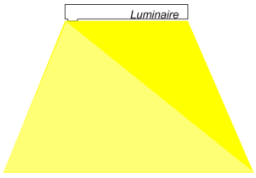
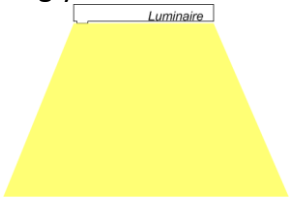


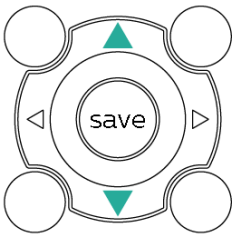
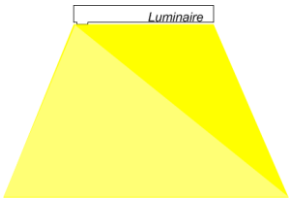
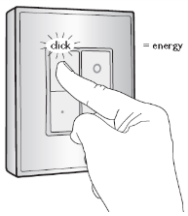
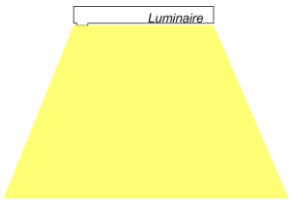
a.	Make sure the group is locked and in the operational state. Point remote to **any** luminaire and dim the group to the required light level by pressing the "up" or "down" arrow keys. or	The group will dim accordingly. 
b.	Press "scene," once. While the LED is still blinking red, enter the scene number to be stored. Select number "**2**" to store the scene on the "**.**" (bottom left) button on the scene selector. Select number "**3**" to store the scene on the "**. .**" (bottom right) button on the scene selector.	Red LED on remote will start blinking. Red LED on remote will stop blinking.

c.	Point to **any** of the luminaires in the group and press “save.” 	The luminaire will FLASH twice. 
d.	Test the scene selector by pressing “**.**” and/or “**. .**” buttons. 	All the luminaires in the group will react to the button action. 

18. Altering the default scenes on the scene selector (with zones)



a.	Make sure the group is locked and in the operational state. Point remote to **any** luminaire that is part of the zone and press “Zone,” once. 	The luminaire will go to 50% while the rest of the luminaires go to 5%. 
b.	Point remote to **the same** luminaire and dim the zone to the required light level by pressing the “up” or “down” arrow keys or switch the zone on/off via the “on” or “off” buttons. 	The zone will dim or switch accordingly. 

	To alter the light levels of another zone execute steps “a” and “b” again on the new zone.	
c.	After all the zones have been adjusted to the required light levels press “scene,” once. While the LED is still blinking red, enter the scene number to be stored. Select number “**2**” to store the scene on the “**.**” (bottom left) button on the scene selector. Select number “**3**” to store the scene on the “**. .**” (bottom right) button on the scene selector.	Red LED on remote will start blinking. Red LED on remote will stop blinking.
d.	Point to **any** of the luminaires in the group and press “save.”  	The luminaire will FLASH twice. 
e.	Test the scene selector by pressing “**.**” and/or “**. .**” buttons.  	All the luminaires in the group will react to the button action. 

19. FAQs

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

Luminaire may be in an "open" group state. In this state, the luminaire level is at 5% and won't respond to ON/OFF or locking and unlocking commands. Press the close door button to close the group. The luminaire will now respond to normal commands.

B. *The luminaire light level is high but it is not responding to any commands. Sometimes it responds to ON/OFF commands. As a result, I cannot group the luminaires.*

Turn the luminaire OFF using the "OFF" button. Now test the other commands such as locking, unlocking, open door etc. If the luminaire responds to these commands then finish all the grouping steps.

If the luminaire is not responding to ON/OFF commands, then perform a power cycle on the luminaire either from a wall switch (non SpaceWise switch) or from the breaker panel – turn the power off for 5 seconds and then turn it back on. After a power cycle, the luminaire will take 30 seconds to stabilize. After these 30 seconds test the ON/OFF commands on the luminaire.

Please note that, if power cycle is performed or interrupted in between the grouping sequence, then those luminaires that were successfully grouped will be in a locked state while the remaining ones on that circuit will be in the factory state (unlocked). To continue grouping, unlock and open the successful group first.

C. *What is the recommended distance between two SpaceWise luminaires?*

Standard grid spacing must be maintained between luminaires. It is recommended to keep the distance as short as possible but it can be extended up to 20 ft. if other physical parameters of the space are conducive for wireless transmission.

D. *Do my luminaires forget their settings after power is lost or interrupted?*

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

20. FCC Compliance Statement

The luminaire complies with the part 15 of the FCC rules. Operation is subject to the following two conditions:

- This luminaire may not cause harmful interference, and
- This luminaire must accept any interference received, including interference that may cause undesired operation

Any changes or modification not expressly approved by Philips could void the user's authority to operate this equipment. This product is intended for commercial use only.

21. Warranty

A detailed product warranty statement can be found on the Philips website http://www.lighting.philips.com/us_en/connect/tools_literature/warranties.wpd.

22. Technical support

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

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