limeLITE

LSL

LimeLite Sensor Light

SMART LIGHTING

LimeLite Sensor Light (LSL)

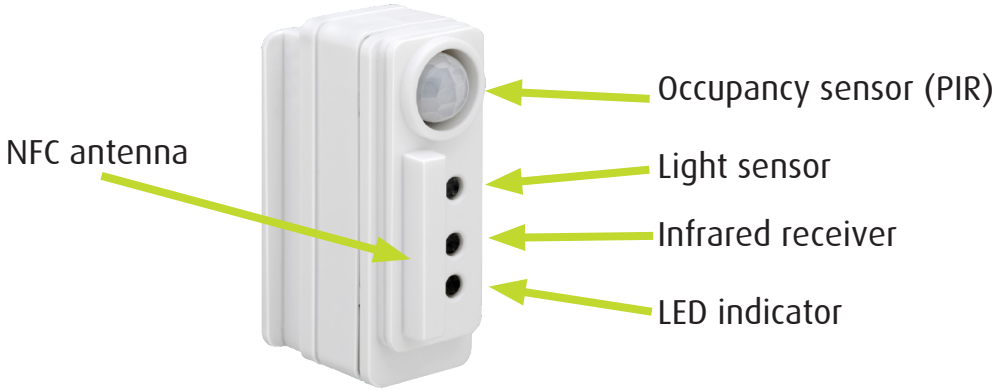
The LimeLite Sensor Light (LSL) is the ideal solution for luminaire control. It combines occupancy sensing, daylight harvesting and task tuning in a single, compact package for easy onsite installation. LSL operates with the Xitanium SR driver to make a simple two-wire connection between sensor and driver, thus eliminating the need for multiple components and auxiliary devices. An intuitive app makes configuration and commissioning during and after installation fast and easy using Philips field apps.

How to specify LimeLite Luminaires with Sensor?

Add **LSL** code to the end of your chosen product code.
This sensor is available to all products with the

 icon.

E.G. LIN-P-LO-1200-23W-4K-LSL



Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Compact size, 2-wire connection
- Operates with Philips Xitanium SR drivers and qualified wireless switches
- Preset with most common sensor parameters
- Configuration of sensor parameters– if desired – using NFC or IR via intuitive Android-based Philips field apps
- Simple grouping of luminaires to a wireless switch with Philips field apps

Benefits

- Combines functionality to reduce need for multiple components
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on application
- Cost-effective solution for energy savings
- Configuration and commissioning from the floor

LimeLite Sensor Light (LSL)

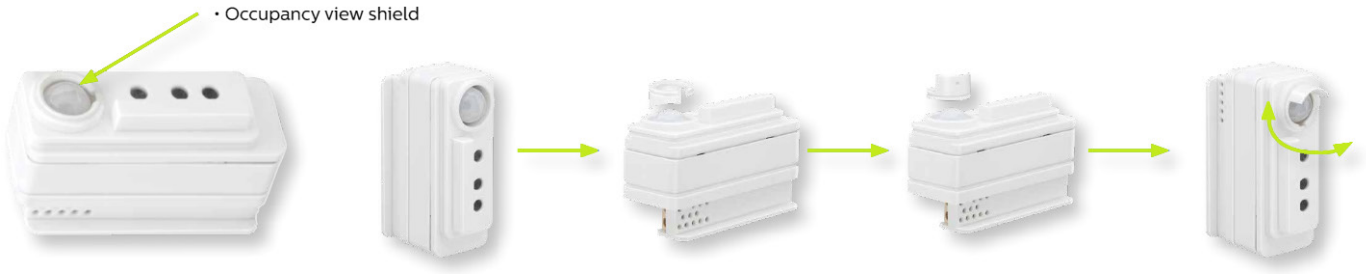
Sensor Data

Electrical Information	
Input Voltage	Powered by SR driver low-voltage interface
Current Consumption	13 mA
Nominal Power Consumption	200 mW
Standby Power	< 1 W on luminaire level, including driver standby power
Occupancy Sensing	
Type	Passive infrared (PIR)
Enable/Disable	Default enabled
Occupancy Mode	Auto-on/off, Manual-on/off, Manual-on/auto-off; Red LED indicates “on”
Occupancy Sharing	Enabled/disabled
Elsewhere Occupancy Level	Background level, task level
Hold Time	0.5 - 60 minutes
Viewing Angle	X = 72°, Y = 86° (See detection pattern)
Background Light Level	0-100%
Prolong Time	0 minutes - infinity
Grace Fading	0-25 sec
Response Time/Fading to Switch On/Off	0.7 sec
Daylight Sensing	
Enable/Disable	Default enabled
Auto-calibration	Upon power-up
Viewing Angle	40° (half value sensitivity); 2% cut-off point at 75°
Task Tuning	
Full Light Setting	0-100%
Environment & Approbation	
Operating Ambient Temperature Range	0 °C to 55 °C
Operating Humidity	0 – 95% non condensing
Storage Temperature	-25 °C to 85 °C
Storage Humidity	0-95% non condensing
Max Case Temperature (Tcase)	55 °C
Agency Approbations	CE, ENEC, RTTE, EMC
Digital Interface	Xitanium SR
Other	
Status Indicators	Red, Yellow. Yellow LED on: Vacancy & Sensor is functional; Red LED on: Motion is detected
Energy reporting	Calculated from last “power on”: % On, Energy Consumed (Whr), System on time (hrs), Avg power consumed (w-hr), Lamp on time (hrs)
Max Distance Switch-to-First-Luminaire	10 m line-of-sight
Max Distance Luminaire-to-Luminaire	12 m line-of-sight
No. Switches per Group	10 max
Field Configuration	via NFC or IR, parameters set via Philips field apps

LimeLite Sensor Light (LSL)

Occupancy View Shield

The sensor comes with an occupancy view shield that can be used to block the movement detection by the sensor in a certain area. The shield comes inverted. This view shield can be pulled out, flipped and inserted back in the sensor and then rotated so the correct area is shielded off from the detection area. If such shield is not needed in the application, it can be easily pulled out from the sensor or left inverted.



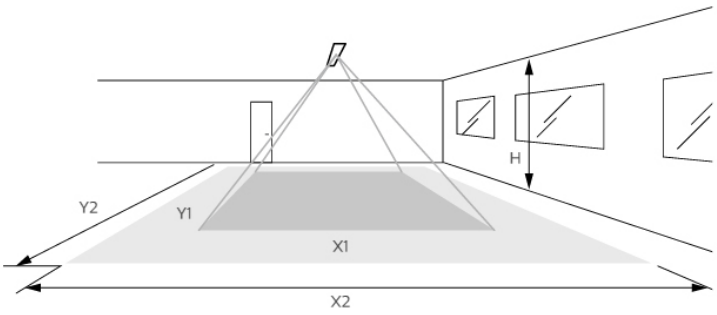
Occupancy Sensor

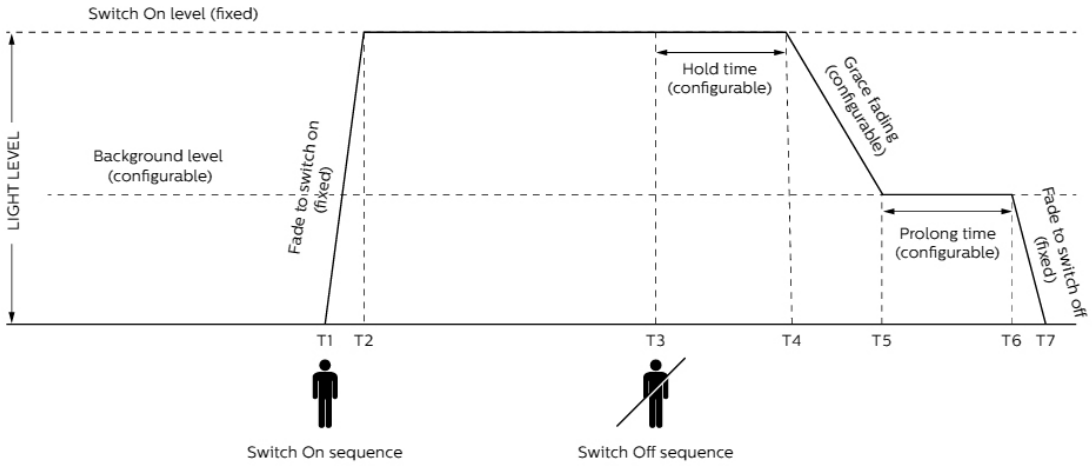
The detection area for the movement sensor can be roughly divided into two parts:

- Minor movement (person moving ≤ 0.9 m/s).
- Major movement (person moving ≥ 0.9 m/s)..

Height	Minor Movement		Major Movement	
h	Y1	X1	Y2	X2
2.4 m	2.9 m	2.7 m	4.5 m	2.9 m
3 m	3.6 m	3.4 m	5.4 m	3.6 m

Note: Longer dimension of detection area (Y1, Y2) is parallel to longer dimension of EasySense.





LimeLite Sensor Light (LSL)

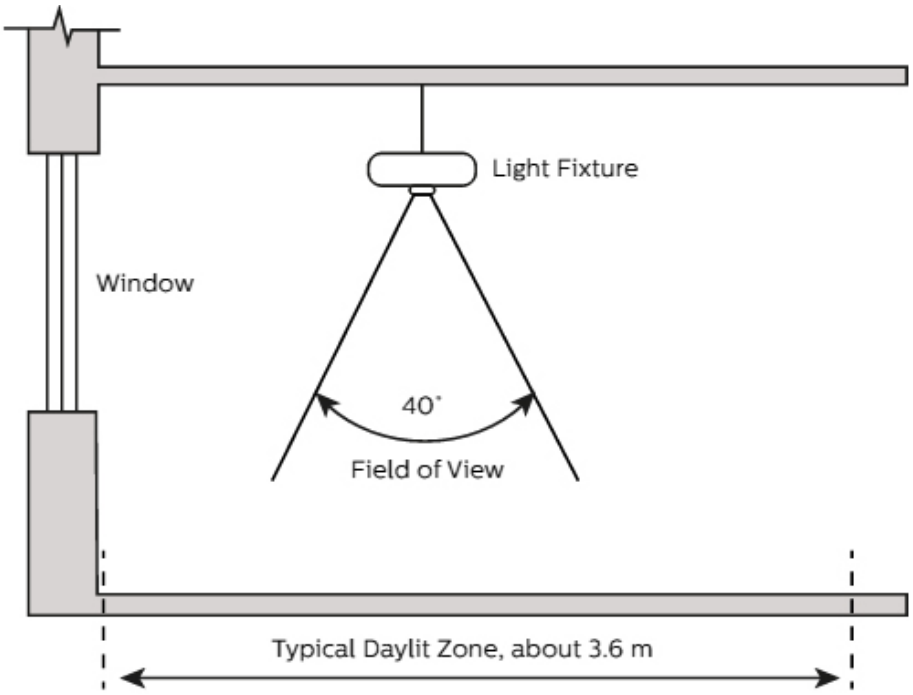
Daylight Sensor

The light sensor measures the total amount of light in a circular field of ≈ 80% of the PIR detection area. The following aspects should be observed during installation:

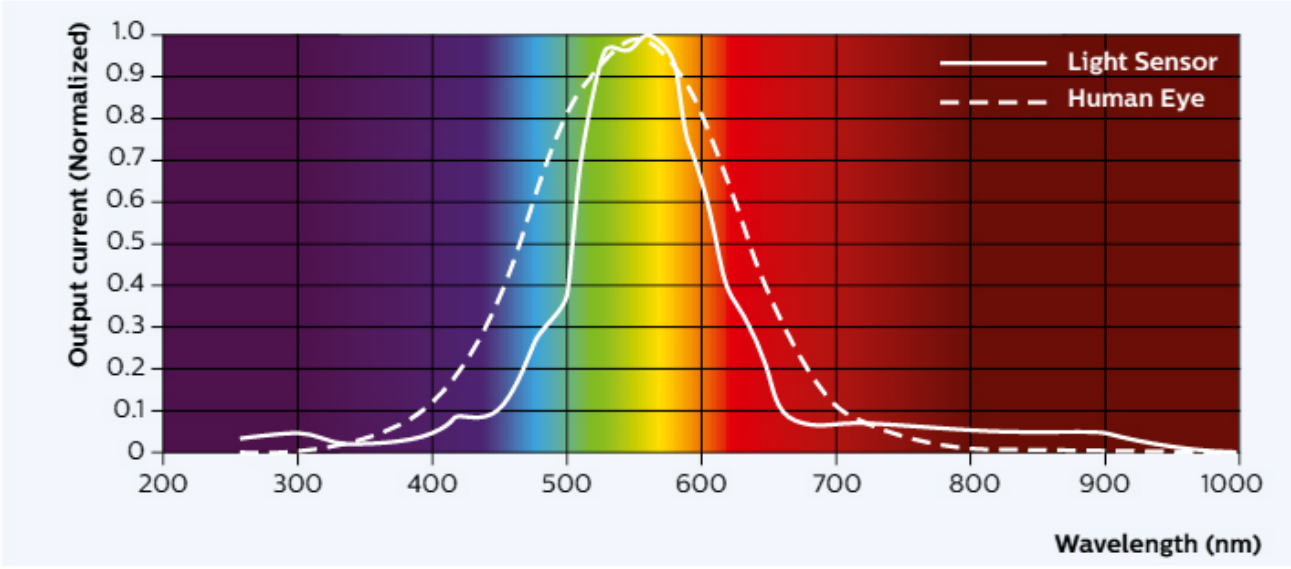
- Minimum distance from the window ≥ 0.6 m.
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

As a guideline the formula 0.72 x H can be used to calculate the minimum distance between the window and sensor whereby H is the height from the bottom of the window to the ceiling.

Photosensor Spatial Response

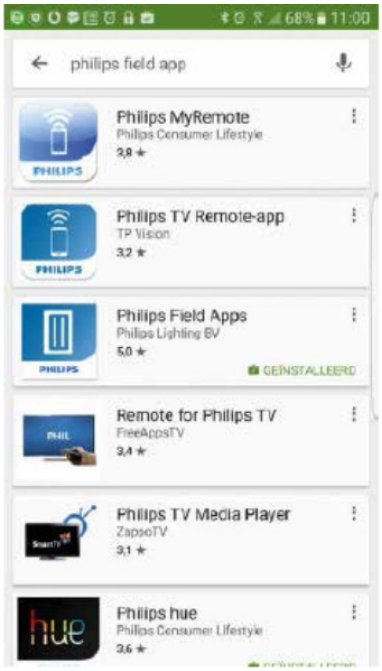


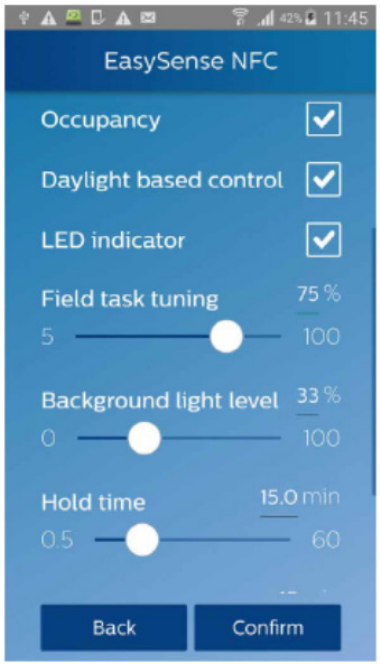
Photosensor Spectral Response



LimeLite Sensor Light (LSL)

Configuration App





Sensor parameters can be configured via Philips field apps. Two versions are available:

1. EasySense NFC – This app allows configuring Sensor parameters only, when you can physically access the sensor with a smartphone.

2. EasySense IR – This app allows configuring EasySense parameters plus enables grouping to a wireless switch, which can be done with the IR feature of applicable phones from floor level.

You must first register for the app to receive a username and password, then download Philips field apps from the Google Play Store. Refer to www.philips.com/easysense for details including applicable Android phones and user manuals.

LimeLite Sensor Light (LSL)

Default Factory Settings

Occupancy Detection	Auto-on, Enabled
Daylight Based Control	Auto-on, Enabled
LED Indicator	Enabled
Occupancy Mode	Auto-on/off
Occupancy Sharing	Enabled
Elsewhere Occupancy Level	Background level
Field Task Tuning	100%
Background Light Level	20%
Hold Time	15 minutes
Prolong Time	15 minutes
Grace Fading	10 seconds
Fade to Switch On	0.7 seconds
Fade to Switch Off	0.7 seconds

limeLITE

T: (03) 9465 8235
E: sales@limelitesales.com.au
www.limelitesales.com.au