



LIGHT MANAGEMENT

# Light under control

Indoor light management.  
Savings and a better quality of life.

CLUE<sup>IN</sup>





# What is light management?

It is

# CLUE<sup>IN</sup>

System that adapts light to current user's needs, while optimising the use of energy. **This is CLUE<sup>IN</sup>!**

"Properly adjusted light improves the comfort of life, efficiency and employees' safety, as well as the cognitive abilities of students. From work and education, through relaxation and fun."

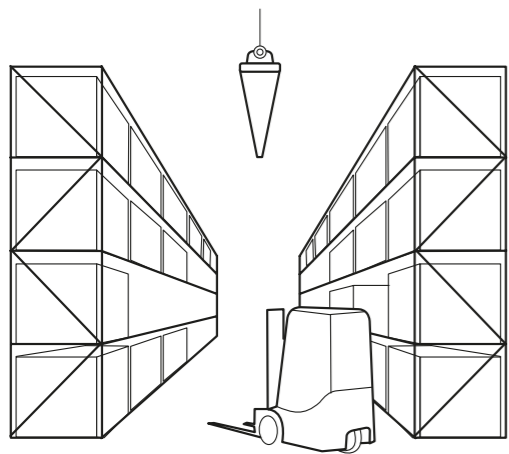
System's scalability allows CLUE<sup>IN</sup> to be applied regardless of the size of the facility. It will prove perfect in one room, as well as in the entire building complex. **No need for overhauls, cutting into walls or cabling.** Easy access via application installed in your smartphone enables to see the world in a better light.

CLUE<sup>IN</sup> is based on technical solutions

**HYTRONIK**<sup>®</sup>

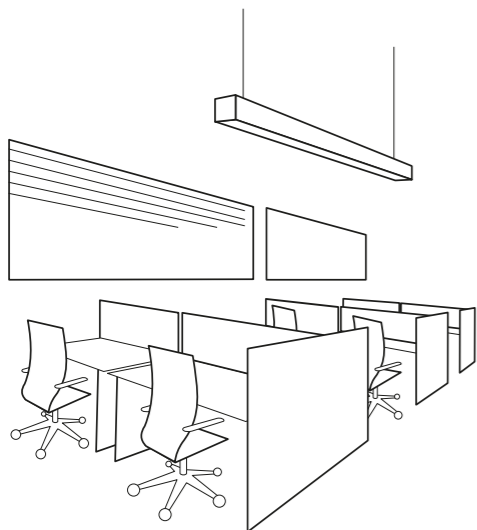
# Where can I apply CLUE<sup>IN</sup>?

Properly adjusted light wherever you are



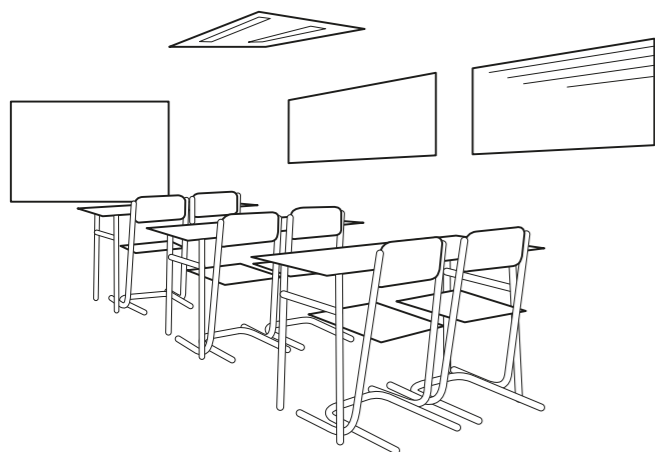
## CLUE<sup>IN</sup> for industry

Light plays an important role in maintaining employee safety and productivity in warehouses and production halls. The programmed scenes will provide lighting compatible with standards for individual workstations. The system's flexibility will allow you to modify the lighting settings with one click, e.g. when changing the production profile or the stock level of the warehouse.



## CLUE<sup>IN</sup> for offices

The optimal level of lighting helps office workers perform their duties efficiently, regardless of the time of day. The light automatically adapts to the human circadian rhythm and external conditions, improving people's well-being and intellectual performance. And can be used only when needed, which reduces the building's operating costs.



## CLUE<sup>IN</sup> for schools

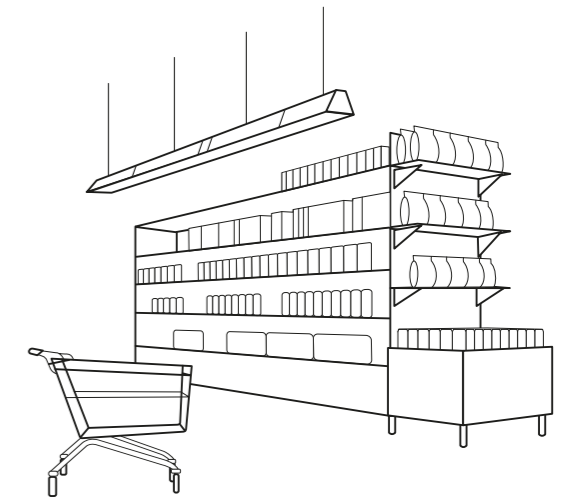
School is the place where young people are expected to be fully focused and committed to intellectual development. Breaks between classes help relieve stress and regain energy for next lessons. Lighting plays an enormous role in classrooms, sport halls and corridors. Adapted to students' activities, it improves concentration and increases comfort and safety.

CLUE<sup>IN</sup> was created for us – people and for our planet. So you can use CLUE<sup>IN</sup> wherever you need light: for work, study, rest, recovery or entertainment. Light scenes created with CLUE<sup>IN</sup> affect well-being and concentration. In industry and sports facilities, they will improve safety, in offices and schools, they will increase

the level of perception, in hospitals they will help people recover, and in hotels they will ensure a good mood. Adaptation of lighting to weather conditions, time of day or the occupancy of rooms, brings measurable benefits in the form of optimal energy use and reduction of greenhouse gas emissions.

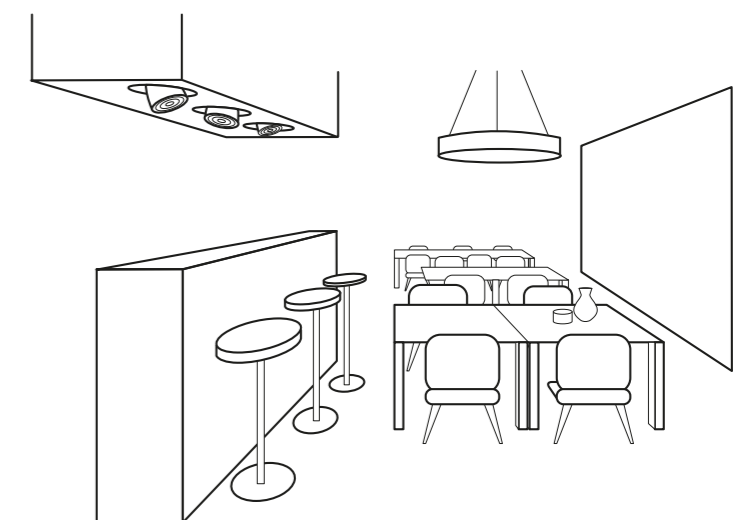
## CLUE<sup>IN</sup> for commerce

In commercial facilities, light is one of factors responsible for attractiveness of displays, mood and the overall atmosphere that accompanies shopping. It allows to accentuate selected product groups, direct customer interest and stimulate shopping reactions. Additionally, optimisation of light intensity together with the maximum use of natural light result in significant electricity consumption.



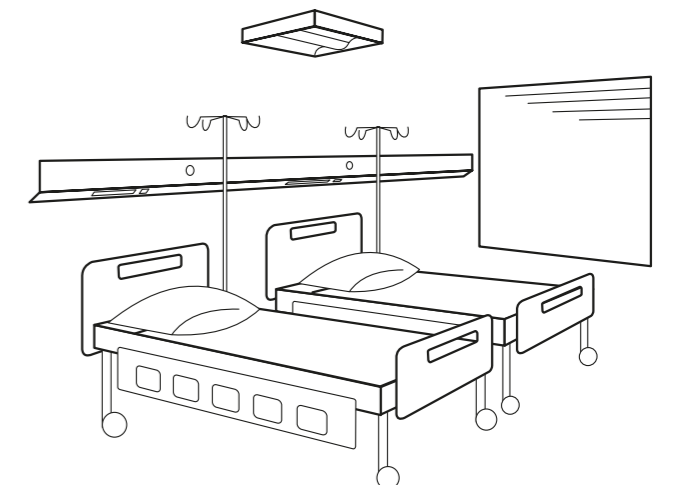
## CLUE<sup>IN</sup> for restaurants and hotels

Building a proper atmosphere in hotels and restaurants is a key marketing goal. Variety of rooms' functions and their flexibility for adaptation to customer expectations is a big challenge which can be managed thanks to the programmable lighting - it can be set individually for a specific events like, for example, an official conference, romantic dinner or an entertainment event.



## CLUE<sup>IN</sup> for health care

Medical care facilities must meet the expectations of both patients and staff. Due to the 24-hour availability of employees, lighting plays a significant role in stimulating professional activity. In the case of patients, properly selected and controlled lighting improves the comfort of rest, and thus reduces recovery time.





# How can I make use of CLUE<sup>IN</sup>?

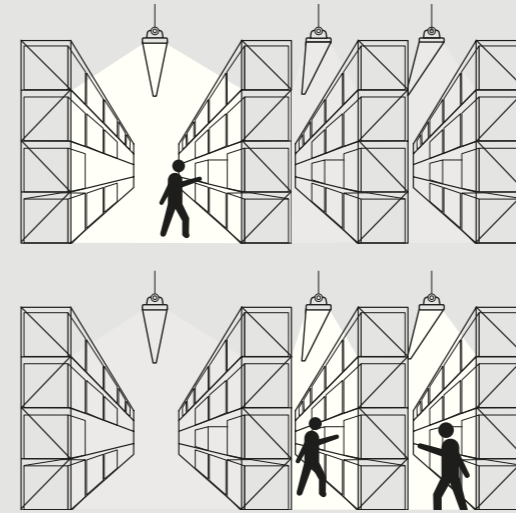
Light responds to your needs...

## in industry

CLUE<sup>IN</sup> can be used in **industrial halls, warehouses, offices, social rooms, passageways**. Regardless of the size of building and number of rooms, CLUE<sup>IN</sup> will adapt light to the needs of employees and the performed tasks.

### CLUE<sup>IN</sup> offers:

- energy savings
- scalability – from one room to the entire integrated multi-building complex
- selection of lighting dedicated for specific tasks
- easily and quickly changeable light scenes depending on the type of performed work
- automatic modification of lighting depending on the time of day and external conditions
- adaptation of lighting to room's occupancy level.



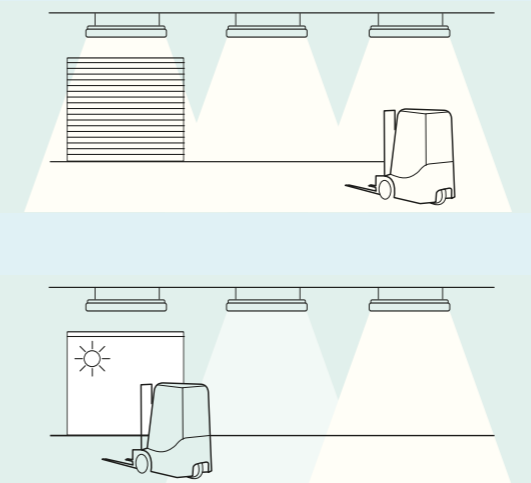
### EXAMPLE

Adaptation of lighting to room's occupancy level

With CLUE<sup>IN</sup> the light will be automatically adjusted to the place where people are currently staying. In unused spaces, the level of light intensity will be minimised to the expected value.

### ADVANTAGES:

- energy savings
- maintaining a constant level of safety



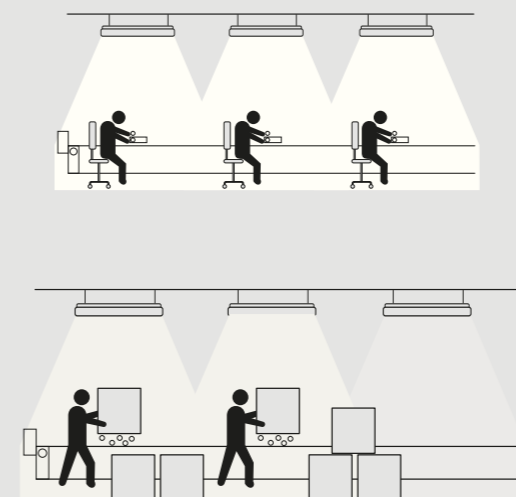
### EXAMPLE

Automatic modification of lighting depending on external conditions

CLUE<sup>IN</sup> will adjust the light intensity of individual luminaires, making the most of natural light.

### ADVANTAGES:

- constant level of light intensity
- energy savings



### EXAMPLE

Change of light scenes depending on the type of performed work

Clue<sup>IN</sup> will adapt the lighting to specific activities. Precise manual work, operation of industrial machines, maintenance work – all these activities require different intensity and colour of light.

### ADVANTAGES:

- improved working comfort
- increased efficiency of employees
- improved safety



# How can I make use of CLUE<sup>IN</sup>?

Light responds to your needs...

## in the office

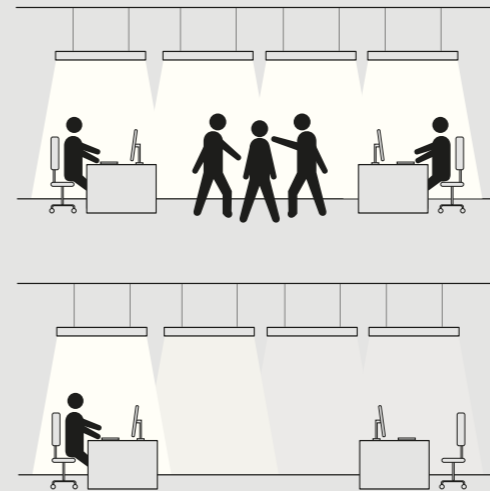
CLUE<sup>IN</sup> can be used in both **open space** office areas and in individual **offices**. It will prove perfect in **conference rooms, passageways, reception areas, lobbies** and **social rooms**. Regardless of the size of the building, the number of rooms and their functions, CLUE<sup>IN</sup> will adapt the light to the needs of employees and the performed tasks.

### CLUE<sup>IN</sup> offers:

- scalability – from one room to the entire office building
- adaptation of lighting to the time of day and the intensity of natural outside light
- detection of people in the rooms
- adaptation of lighting to individual needs
- optimised corridor lighting



### EXAMPLE



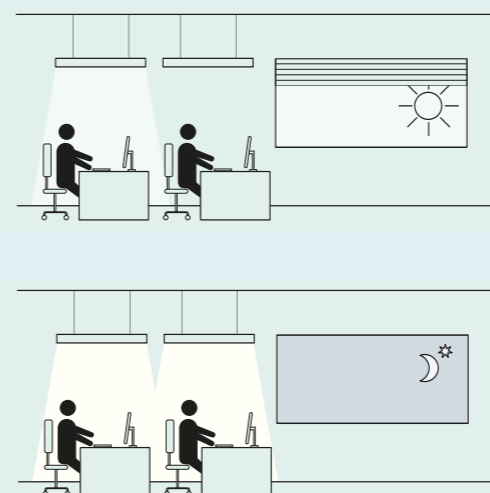
Adaptation of lighting to room's occupancy level

CLUE<sup>IN</sup> will automatically detect the presence of people in the room and choose a lighting scene appropriate for the workplace and the performed activity.

### ADVANTAGES:

- energy savings
- working comfort

### EXAMPLE



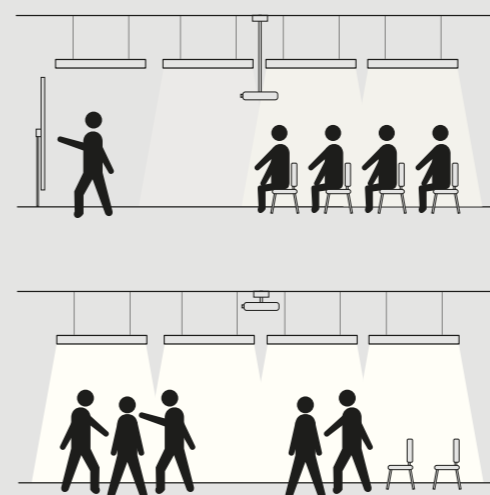
Adaptation of lighting to natural outside light

CLUE<sup>IN</sup> will automatically increase or decrease lighting level depending on the level of natural light intensity.

### ADVANTAGES:

- energy savings
- proper lighting – constant light level in the room, greater comfort
- guarantee of compatibility with lighting standards

### EXAMPLE



Adaptability of light scenes to the type of performed activities

Clue<sup>IN</sup> will adapt the lighting to current needs. During a presentation, it will dim the lighting by the screen. It will light up the whole room for the time of discussion.

### ADVANTAGES:

- energy savings
- comfort when conducting a presentation



# How can I make use of CLUE<sup>IN</sup>?

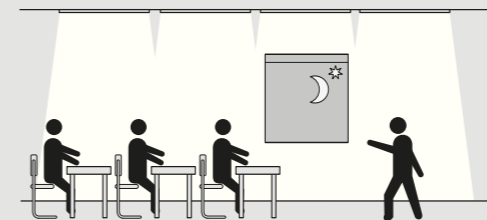
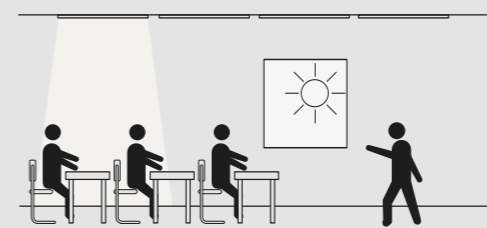
Light responds to your needs...

## in school

CLUE<sup>IN</sup> can be used in **classrooms, laboratories, sport halls, corridors, rooms and pedagogical offices, assembly halls, day rooms and canteens**. Regardless of the size of building, number of rooms and their functions, CLUE<sup>IN</sup> will adapt the light to the needs of students and educators and the performed tasks.

### CLUE<sup>IN</sup> offers:

- scalability – from one room to the entire integrated school complex
- adaptation of lighting to the time of day and intensity of natural outside light
- detection of people in the rooms
- improved comfort and safety of students and teachers
- adaptation of lighting to any activity.



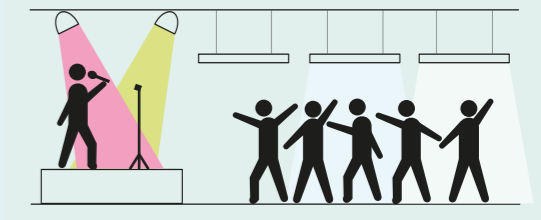
### EXAMPLE

Adaptation of lighting to natural outside light

CLUE<sup>IN</sup> will automatically increase or decrease the lighting level depending on the level of natural light intensity or the time of day.

### ADVANTAGES:

- energy savings
- proper lighting – constant light level in the room, greater comfort
- guarantee of compatibility with lighting standards



### EXAMPLE

Adaptability of light scenes to the type of activity

Programmed lighting scenes in the assembly hall will enhance the gravity of official ceremonies or adorn artistic performances.

### ADVANTAGES:

- atmosphere and prestige of events
- comfort and safety



# How can I make use of CLUE<sup>IN</sup> INDOOR ?

Light responds to your needs...

## in commerce

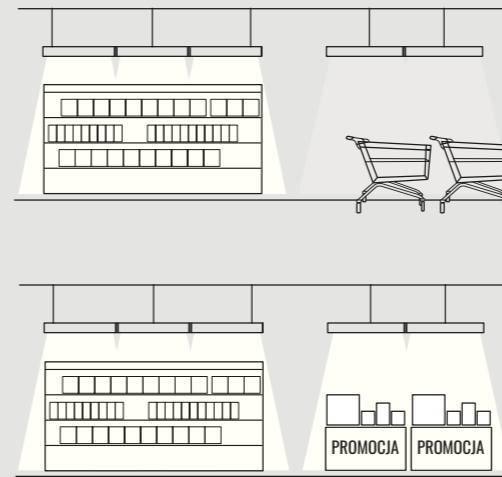
CLUE<sup>IN</sup> can be used in **small shops and boutiques, large-format supermarkets, galleries, bars and restaurants, cinemas and entertainment centres.** Regardless of the size of the object and the purpose of the room, CLUE<sup>IN</sup> will adapt the lighting to maximise the comfort of shopping and entertainment.

### CLUE<sup>IN</sup> offers:

- scalability – from one boutique to the entire shopping mall
- comfort for customers and shop attendants
- better sales – boosts the quality of product displays
- energy savings – adjusts the lighting to the time of day and the intensity of natural outside light



### EXAMPLE



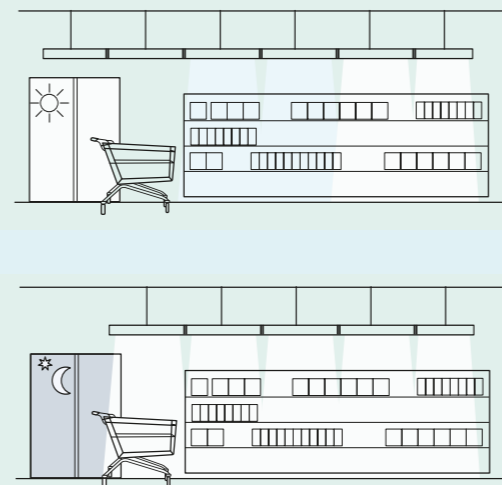
Adaptation of lighting to the type of product displays

CLUE<sup>IN</sup> will adapt the type of lighting to selected products offered in the shop (or its part). Programmed lighting scenes can support sales promotion.

### ADVANTAGES:

- better display of goods
- support for promotional campaigns
- greater shopping comfort

### EXAMPLE



Maximum use of natural light

CLUE<sup>IN</sup> will automatically increase or decrease the lighting level depending on the level of natural light intensity.

### ADVANTAGES:

- energy savings
- proper lighting – constant light level in the room



# How can I make use of CLUE<sup>IN</sup>?

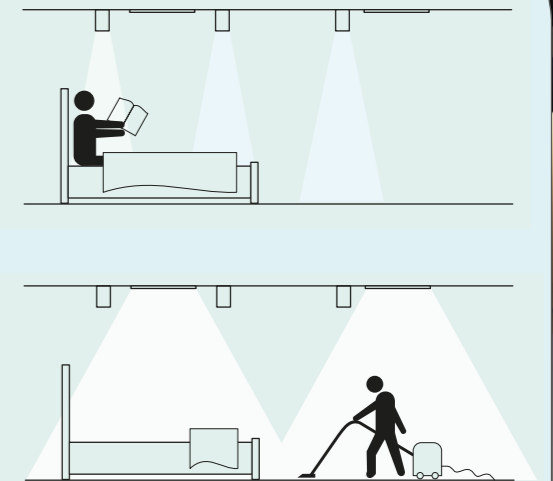
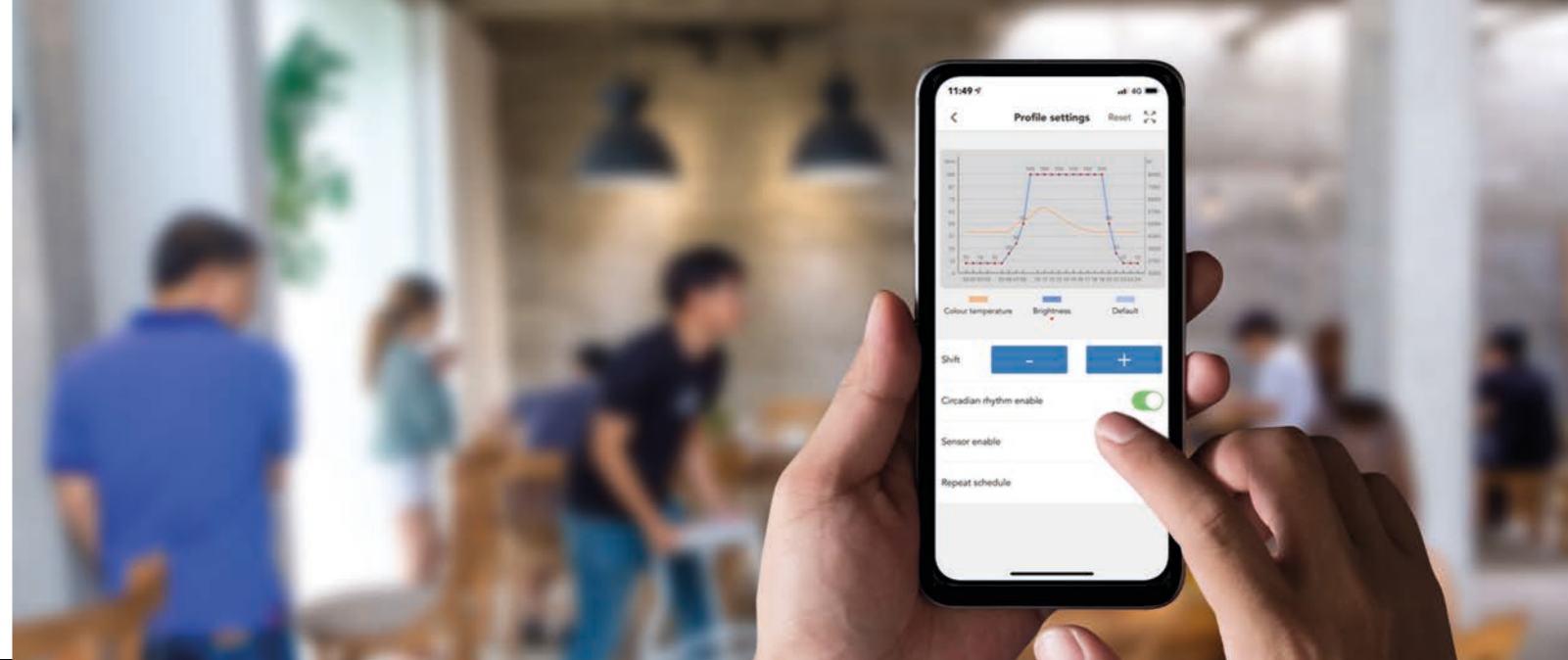
Light responds to your needs...

## in a restaurant and in a hotel

CLUE<sup>IN</sup> will be used in **bars, restaurants, kitchens, social rooms, hotel lobbies, rooms, corridors, banquet and conference rooms**. Regardless of the size of the object and the purpose of the room, CLUE<sup>IN</sup> will adapt the lighting to ensure the comfort of guests and employees.

### CLUE<sup>IN</sup> offers:

- scalability – from one room to the entire hotel and restaurant facility
- energy savings – adjusts the lighting to the time of day and the intensity of natural outside light
- bringing up programmed light scenes depending on the situation and event
- comfort of guests and service



### EXAMPLE

## Adaptability of light scenes to the type of activity

CLUE<sup>IN</sup> will bring up a lighting scene suited to current needs. Different lighting is expected by a guest who wants to relax in the evening, and other is necessary for the staff to carry out cleaning work.

### ADVANTAGES:

- comfort and satisfaction of guests
- comfort and efficiency of employees



# How can I make use of CLUE<sup>IN</sup>?

Light responds to your needs...

## in health care

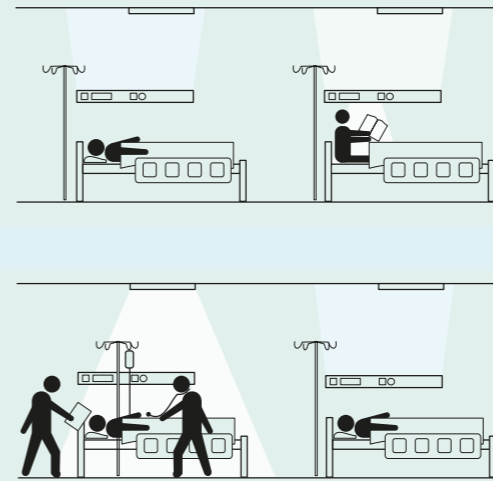
CLUE<sup>IN</sup> can be used in **patient rooms, medical and treatment rooms, emergency rooms, corridors, reception rooms, doctor's offices, day rooms, canteens**. Regardless of the size of the building, the number of rooms and their functions, CLUE<sup>IN</sup> will adapt the light to the needs of patients and employees and the performed tasks.

### CLUE<sup>IN</sup> offers:

- scalability – from one room to the entire integrated hospital complex
- adaptation of lighting to the time of day and the intensity of natural outside light
- detection of people in the rooms
- improved comfort of patients and employees
- adaptation of lighting to different activities



### EXAMPLE



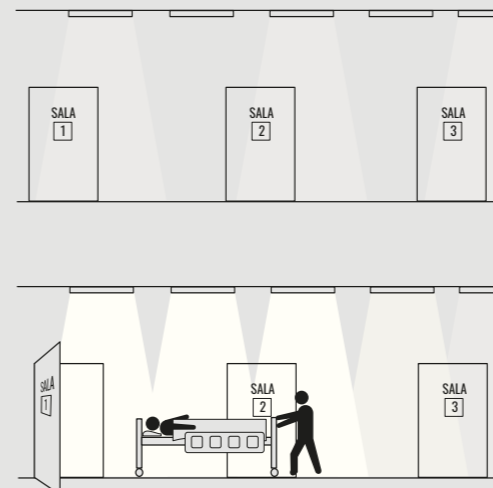
Adaptation of lighting to current needs

CLUE<sup>IN</sup> will adapt the lighting to performed activities and the current situation. Relaxation lighting will accompany patients during rest. In the event of a sudden medical intervention, only the work space of the medical staff will be illuminated.

#### ADVANTAGES:

- comfort of patients
- energy savings

### EXAMPLE



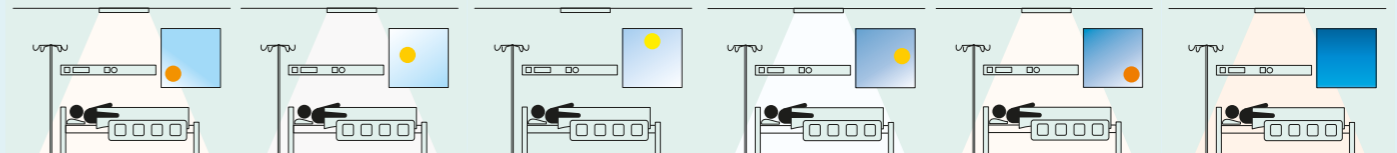
Adaptation of lighting to room's occupancy level

CLUE<sup>IN</sup> will automatically increase/decrease the light level in the corridor when it detects the presence of people. When the space is unused, minimum lighting is switched on to ensure safety.

#### ADVANTAGES:

- energy savings
- comfort and safety

### EXAMPLE



Adjustment of light colour to the human circadian rhythm

Clue<sup>IN</sup> will automatically adjust the type and colour of light to the human circadian rhythm.

#### ADVANTAGES:

- shorter recovery time of patients
- better concentration and performance of the personnel
- less fatigue of personnel working in shift system



# What do I need to start using CLUE<sup>IN</sup>?

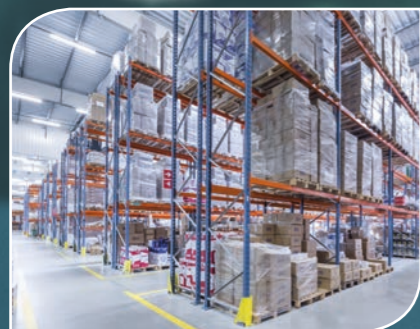
**Installation of CLUE<sup>IN</sup> is very simple. It does not require any overhauls or extra cabling.** All you need is luminaire/Lena Lighting luminaire compatible with the system, lighting switch and the CLUE<sup>IN</sup> app (installed on your smartphone). Our consultants will help with the first configuration of the system and setting up the light scenes. You will be able to make further modifications yourself due to a very intuitive interface of the application.

With CLUE<sup>IN</sup> system, you can control luminaires through the application or a regular wall switch. Additionally, you can control the whole group of luminaires connected wirelessly via a Bluetooth network. Advantages of this solution include the comfort of use and the ability to control luminaires that are not electrically connected to the switch. **CLUE<sup>IN</sup> solution eliminates need to lay extra electrical wiring.**

## What will I gain by choosing CLUE<sup>IN</sup>?

CLUE<sup>IN</sup> gives you **full control over lighting**. Scalability of the system enables it to be installed virtually anywhere, **from a single room to the entire complex of buildings**. With CLUE<sup>IN</sup>, the lighting will always be suited to your needs. Choosing CLUE<sup>IN</sup>, you are given:

- easy and non-intrusive installation of the lighting control system
- comfort of use
- great functionality
- a higher standard of the facility/investment
- care for the natural environment





# LIGHT MANAGEMENT



**Light**  
under  
control

A hand holding a smartphone displaying a light management app interface. The screen shows a line graph with a peak and a trough, and several control buttons below it, including a plus sign, a minus sign, and a power icon. The text "Light under control" is positioned to the left of the phone.

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