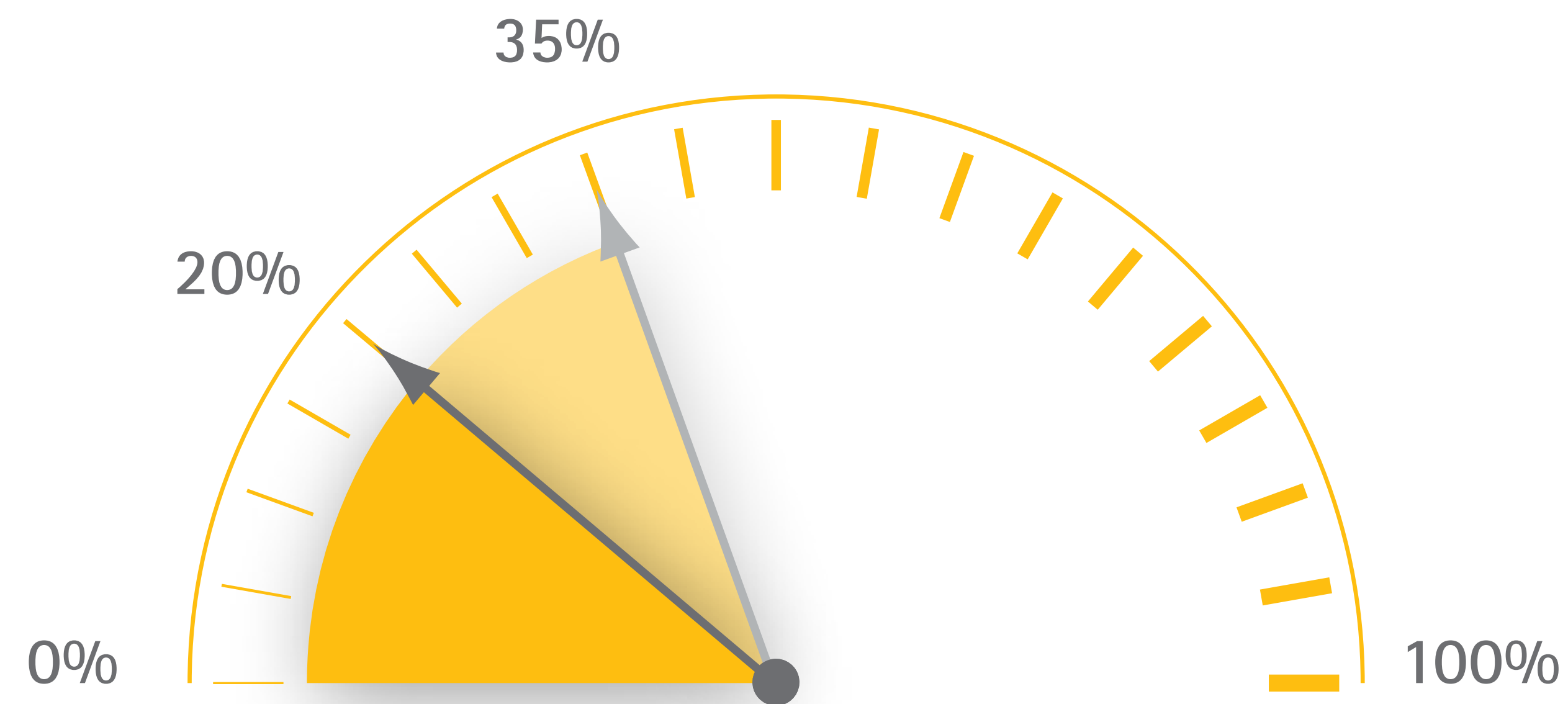




EasyDim2: save energy through local light control

How much energy do you use?



Approximately 20 to 35% of global electricity consumption goes to lighting (depending on building and activity).

How to save energy?

1. energy-friendly luminaires
2. sparing use of light: the right amount at the right time
3. optimal use of daylight

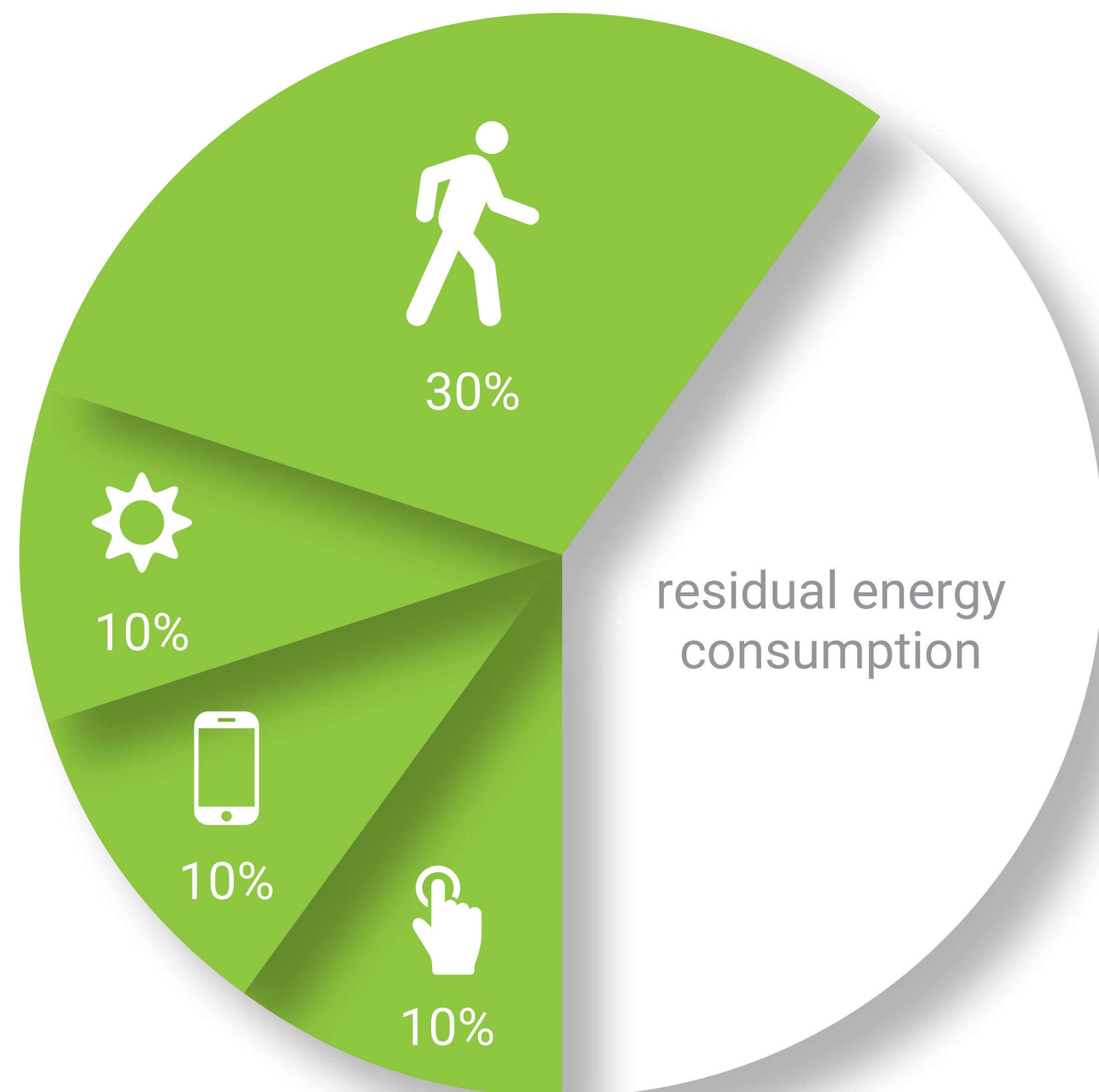


With **EasyDim2** you can save energy in an **EASY, FLEXIBLE** and **COST EFFECTIVE** way.







EasyDim2 helps you save energy

EasyDim2 is a local light control system you can easily save up to 60% energy with:



EasyDim2 energy savings

While the movement and daylight sensors manage your light automatically, you can also manually adjust the lighting to specific, sometimes varying needs via the app and the push buttons.

-  movement detection
-  daylight-dependent light control
-  EasyDim2 app
-  push buttons



Frequently used and in some countries even mandatory is the combination of manual switching on and automatic switching off (eg in classrooms). This way, you realize large energy savings.

How does EasyDim2 work?

EasyDim2 consists of a control unit with multisensor (CTRL) that is connected to (DALI-controlled) lighting luminaires.



The control unit receives signals from the environment (daylight and human movement) and controls the lighting according to an optimized scenario.

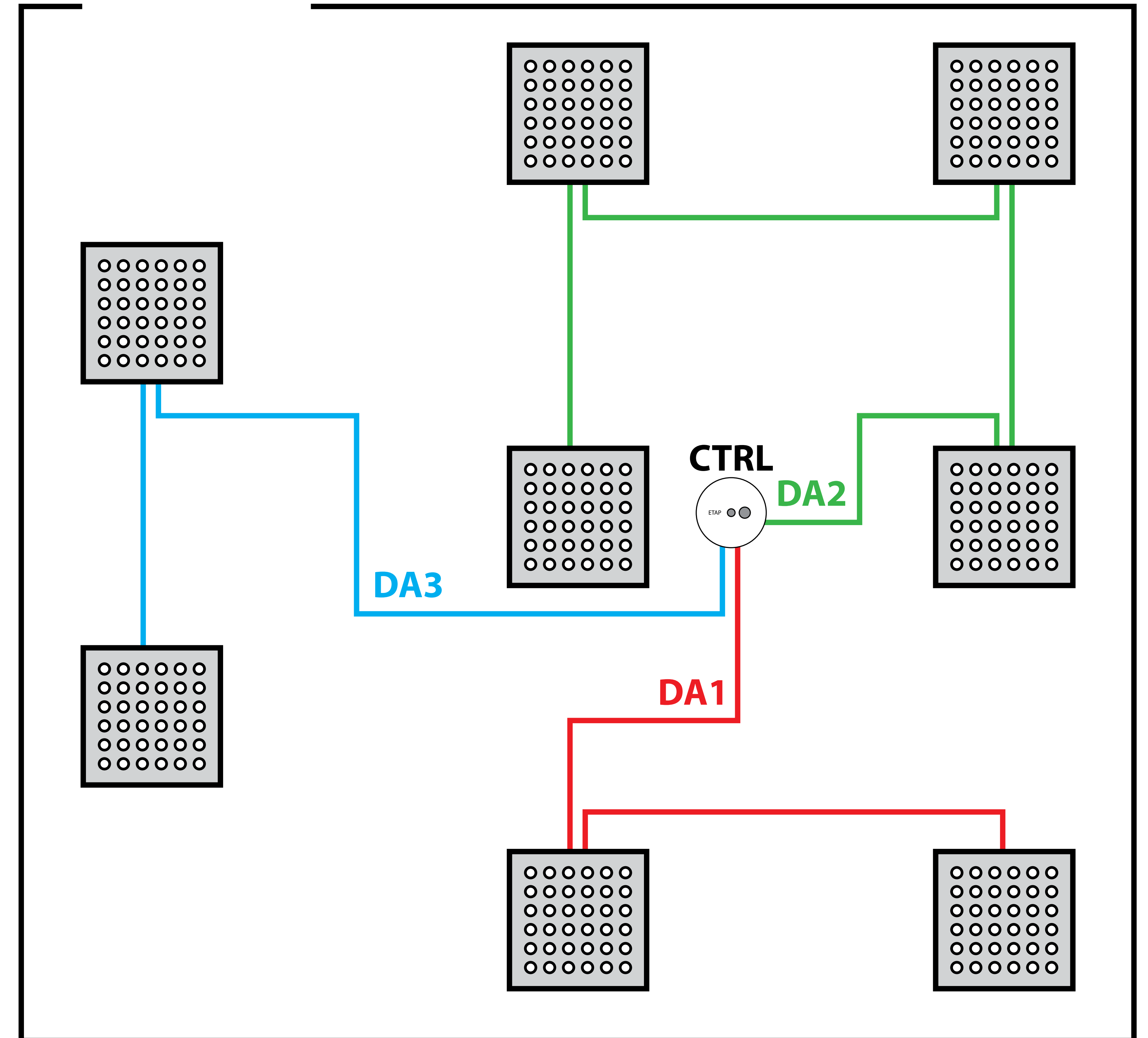
You can also manually manage the control unit using the



EasyDim2 app or push buttons.

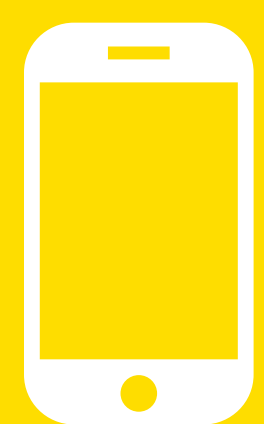
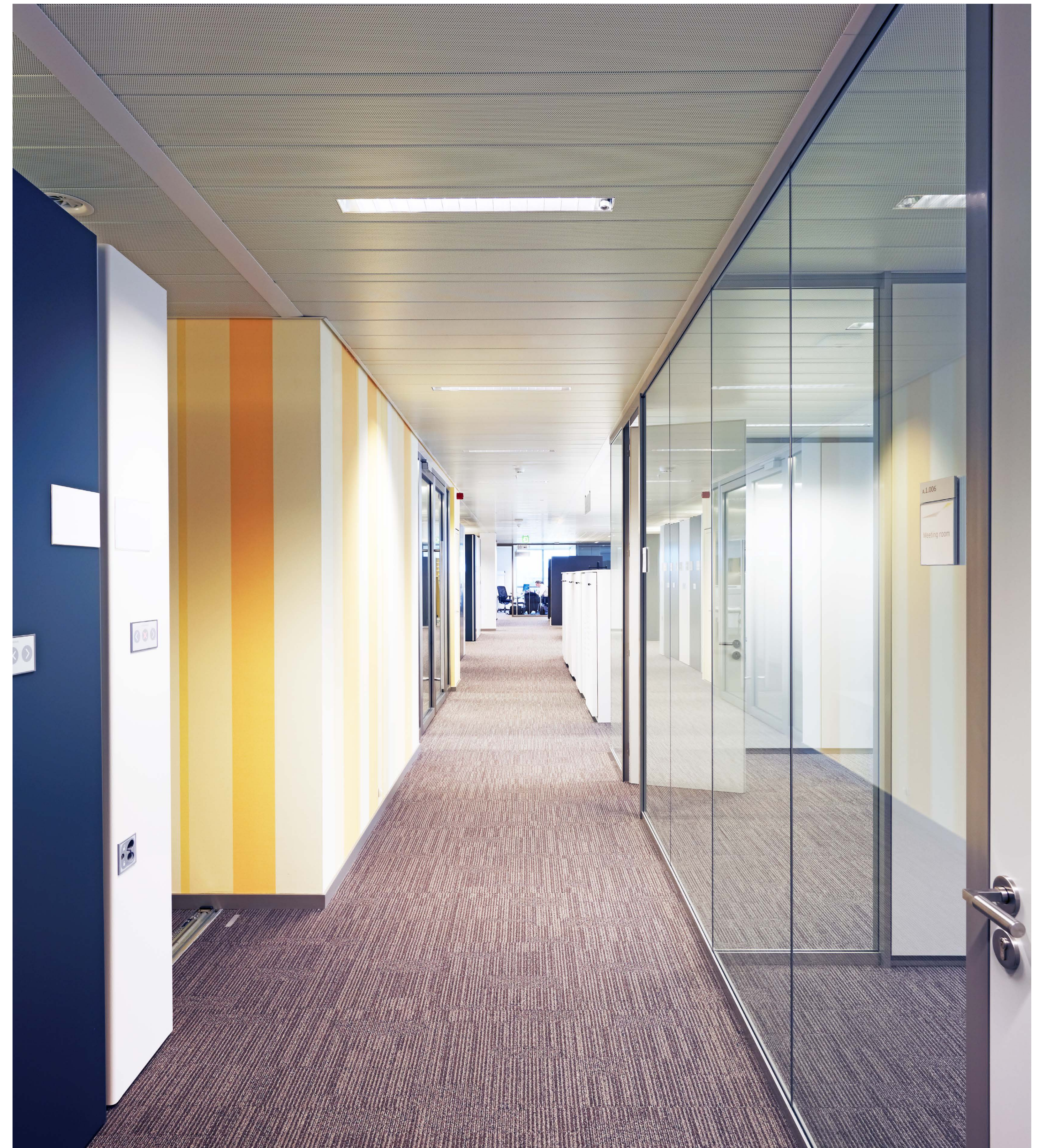


All luminaires are divided over 3 DALI circuits (DA1, DA2, DA3). Each circuit works as an area, within which all luminaires react in the same way, according to a fixed scenario.



ETAP has predefined an optimized scenario for the most frequent applications. Standard lighting scenes exist for:

- Classrooms / meeting rooms
- Auditoriums
- Small offices (3 variants)
- Landscape offices (2 variants)
- Corridors
- Canteens
- Washrooms



If you want, the facility manager or building manager can easily adjust the settings via the EasyDim2 app to your specific projects and/or wishes.

This is how the control unit works

The control unit receives signals from different sensors:

☀ Built-in daylight sensor

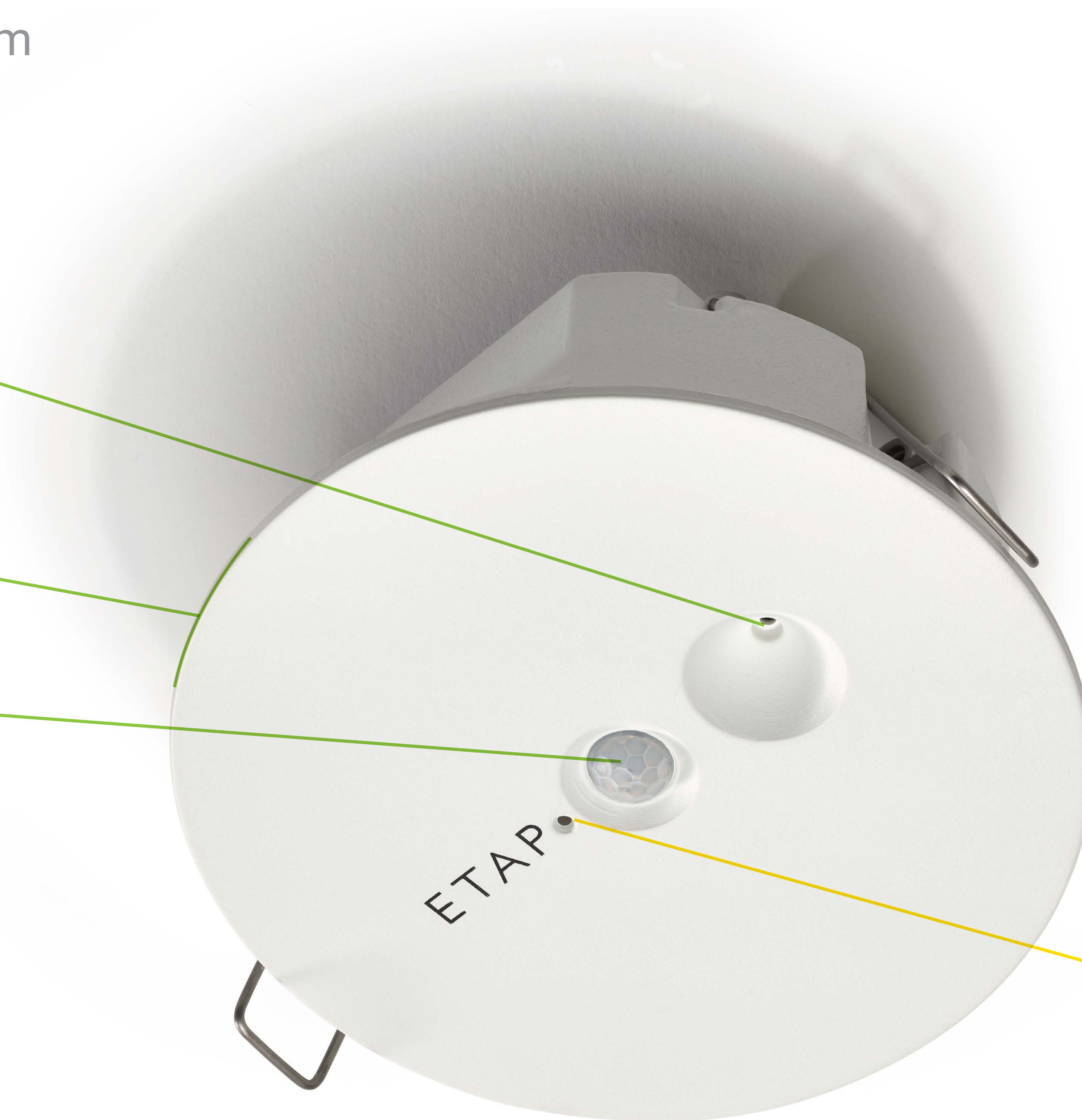
📶 Back fitted bluetooth sensor
(for control via the app)

🚶 Built-in movement sensor

Optional: additional movement
sensors or push buttons on DALI
line.



Based on the received signals and
the selected scenario, the lighting
is optimally controlled.



LED indicator shows system
status:

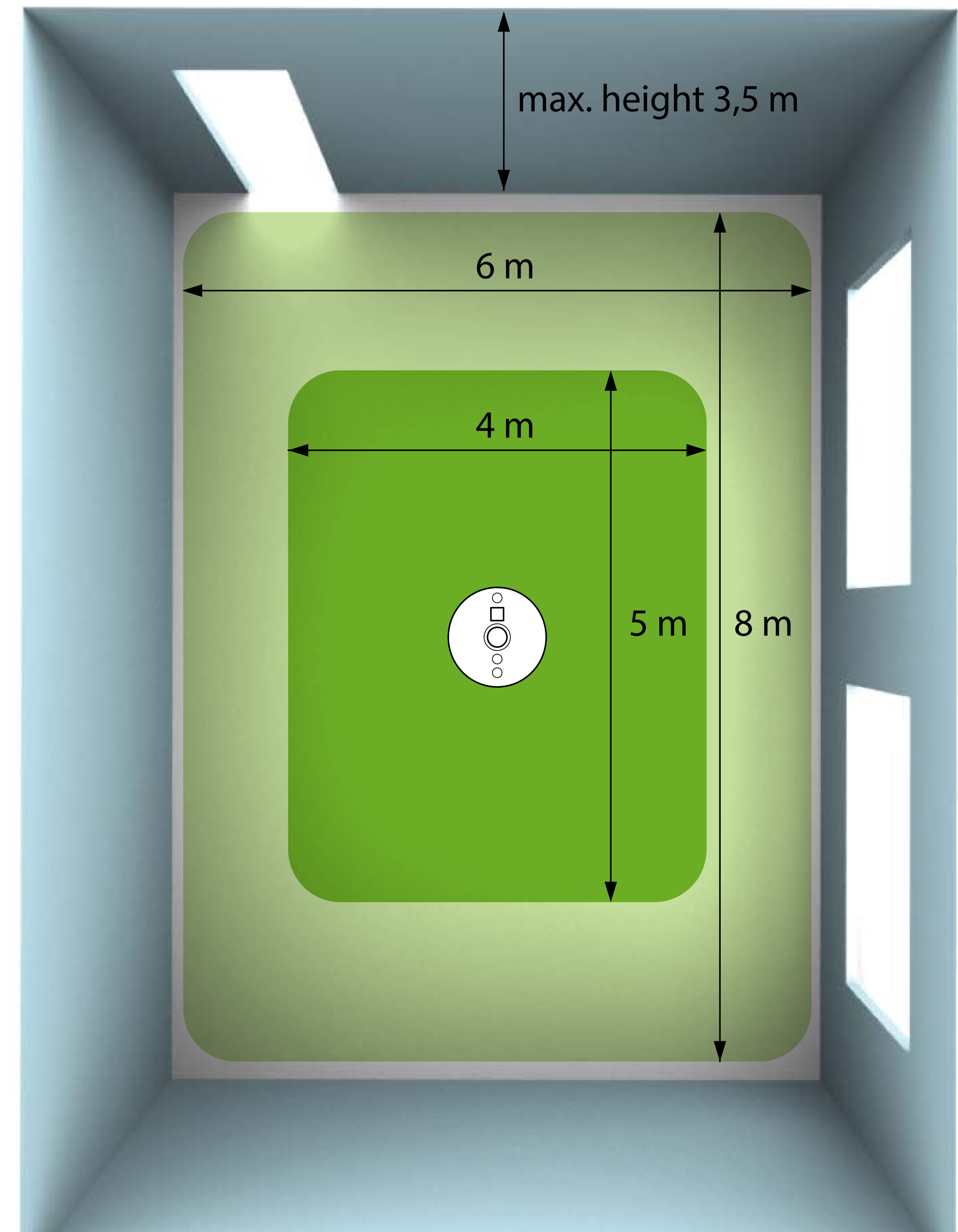
- Green: supply voltage
- Yellow: bluetooth
connection

The sensor has the following range:

- up to 20 m² for small fine movements (office applications);
- up to 48 m² for larger movements (education);
- 3.5 m maximum height.

For each DALI line, you can

- connect a maximum of 15 luminaires;
- add up to 3 extension sensors;
- connect a maximum of 3 push button interfaces.



Top view sensor range

Depending on the installation and application, you can have the push buttons programmed in the following way:

- Four different lighting scenarios (button 1 to 4)
e.g. dimming scenarios in classrooms or auditoria for using blackboards, giving presentations, ...
- Control three lighting areas individually (buttons 1 to 3) or all areas together (button 4) by a short push (switch on or off) or a long push (dimming).
- Switch all luminaires on (button 1), off (button 3), dim higher (button 2) or lower (button 4).



	BUTTON 1	BUTTON 2	BUTTON 3	BUTTON 4
Scenes	Scene 1	Scene 2	Scene 3	Scene 4
Areas (on/off/dimming)	Area 1	Area 2	Area 3	All areas
General	All on	Higher dimming	All off	Dimming lower



Recessed EasyDim2



Recessed EasyDim2 with cable and installation box



Surface-mounted EasyDim2



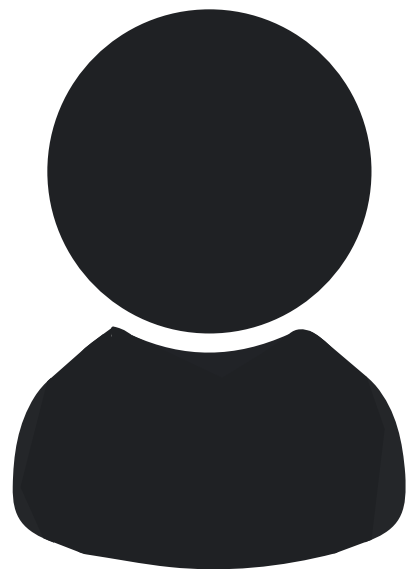
INSTALLER

Does the initial commissioning.



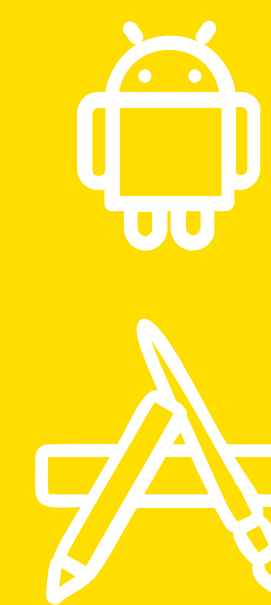
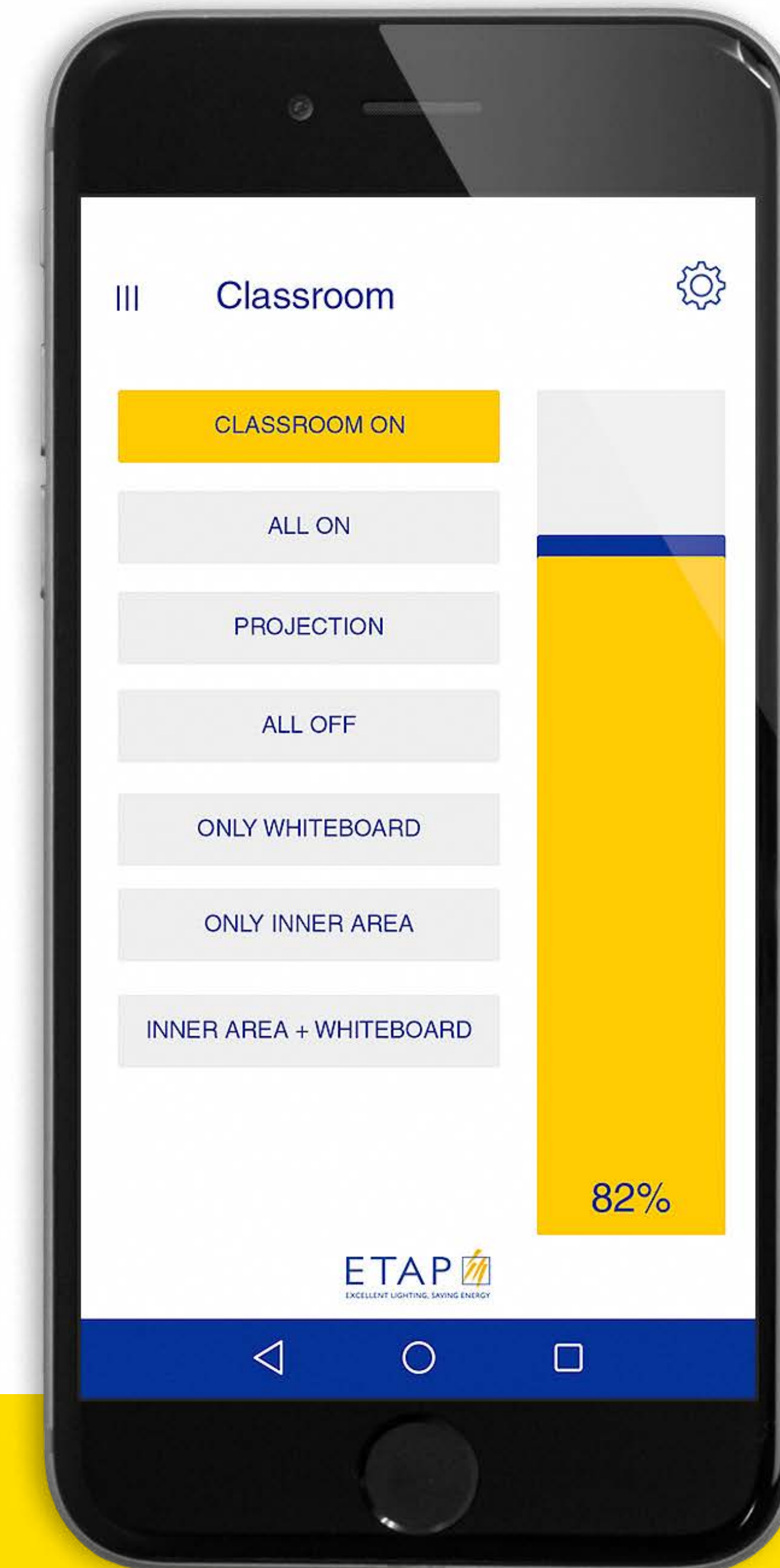
BUILDING MANAGER OR FACILITY MANAGER

Can easily adjust parameters.



THE USER

Selects the requested room, scene, area, dimming scenario, etc. Can change the name of the controlled rooms.



The EasyDim2 app (available for Android) allows easy commissioning (for the installer) or adjusting (for the facility manager). Users can easily adapt the lighting to their instant, personal needs via the app.

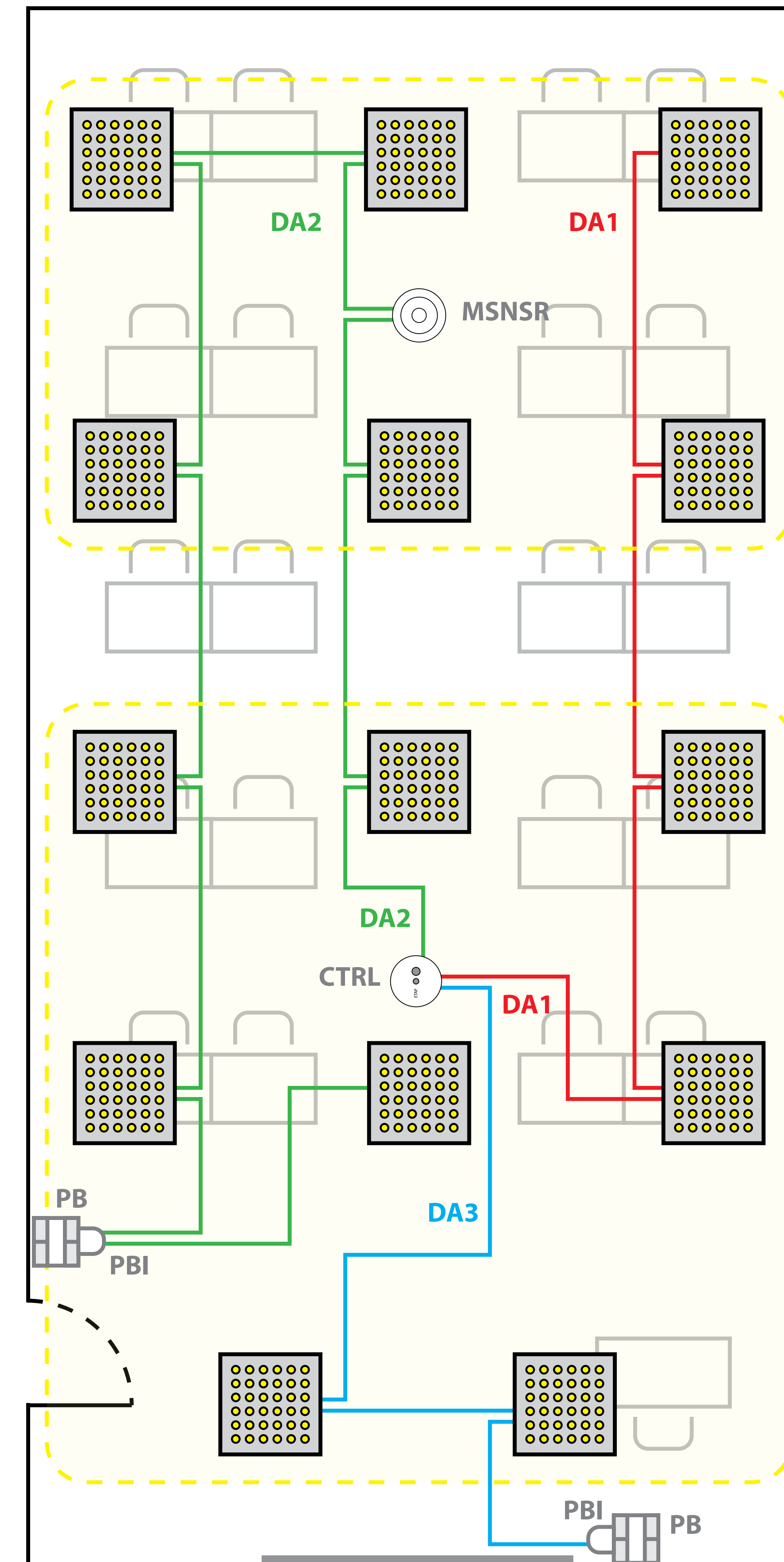
CLASSROOM / MEETING ROOM / TRAINING ROOM

Needs:

- Layout according to daylight (large windows).
- Window and interior area can be switched separately (in some countries compulsory by law).
- Different board scenarios: lots of light with board use, darkening with projection.

Saving ways:

- 🚶 Luminaires in window and inner area switch on by movement.
- 🚶 Luminaires switch off 10' after last movement detection.
- ☀ Luminaires in the inner and window area are dimmed.
- ☀ With sufficient daylight, the luminaires on the window area switch off.



CTRL: control unit with multisensor
DA1/2/3: DALI-kring 1/2/3
PB: Pushbutton
PBI: Pushbutton Interface
MSNSR: movement sensor

– window area
 – Inner area
 – Black/white board

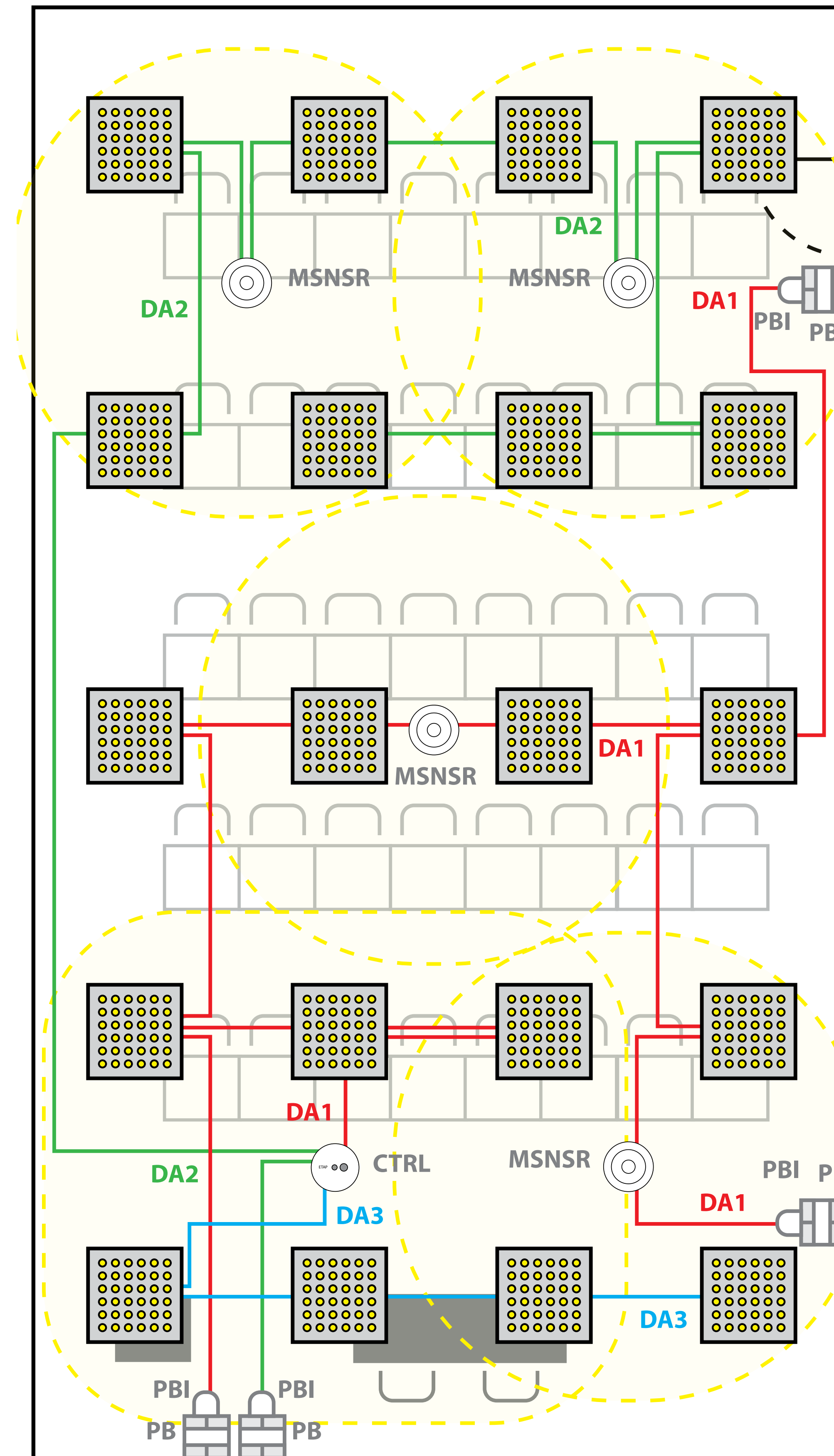
AUDITORIUM

Needs:

- Separate lighting seating rows vs. stage.
- Partial or full lighting of seating area depending on occupancy.
- Dimming scenario for projection on stage.

Saving ways:

- 🚶 Movement detection activates the luminaires in the front and back rows.
- 🚶 The luminaires go out 10' after the last movement detection.
- ☀ Luminaires in the front and the back rows are dimmed equally, but not completely switched off (default settings).



CTRL: control unit with multisensor
DA1/2/3: DALI-kring 1/2/3
PB: Pushbutton
PBI: Pushbutton Interface
MSNSR: movement sensor

– Front rows
 – Back rows
 – Stage

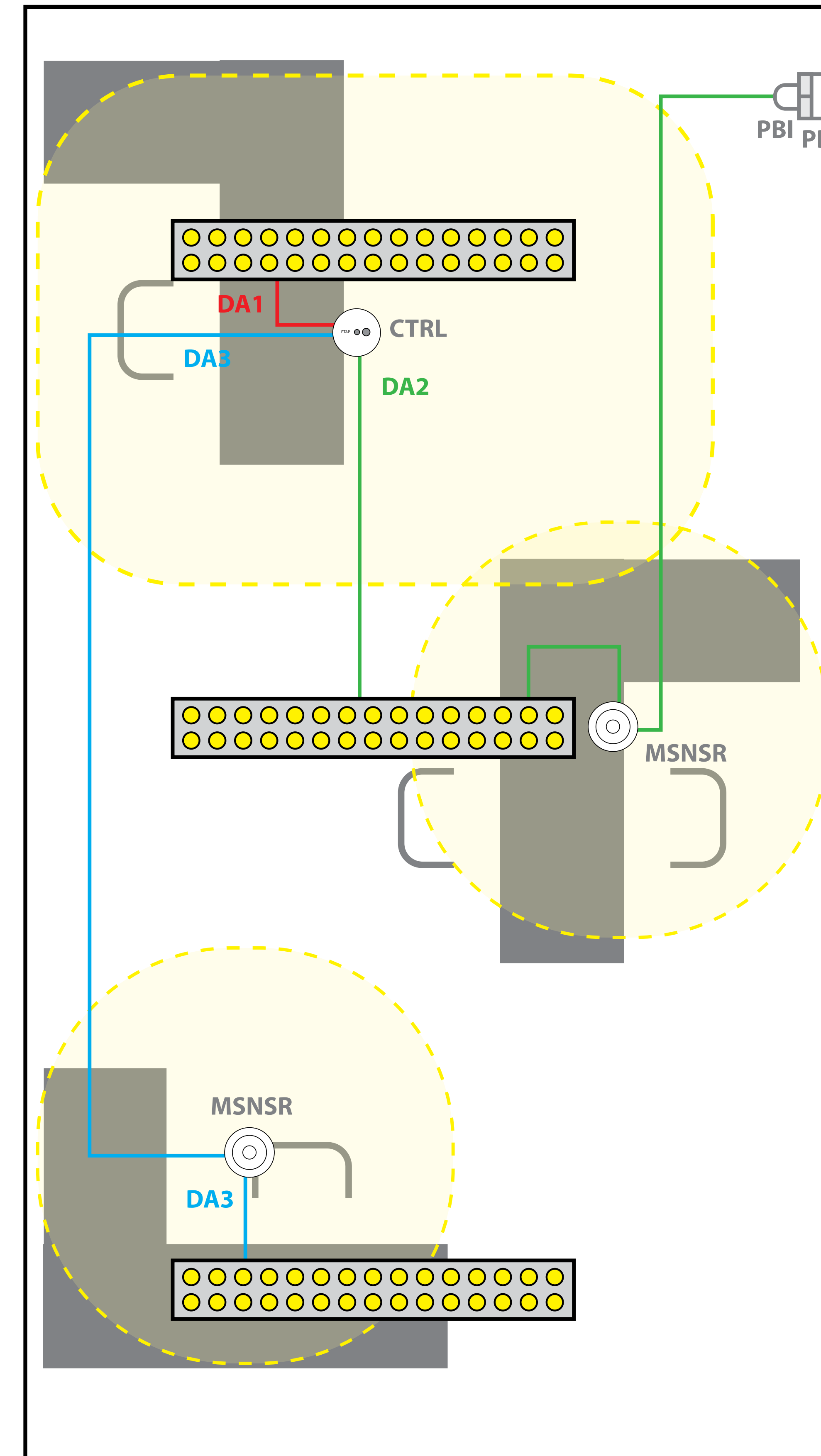
LANDSCAPE OFFICE WITH 3 WORKING AREAS

Needs:

- Flexible lighting in function of occupancy and activity (movement detection per area).
- Not to end up in the dark without warning when there's no movement.
- Individual control per area according to personal needs.

Saving ways:

- 🚶 In the case of movement detection, the luminaires of the respective area switch on automatically.
- 🚶 30' after the last movement detection, the luminaires are dimmed and after 60' they're switched off.
- ⚙️ The light sensor dims all luminaires equally, but does not completely switch off the lighting (default settings).



CTRL: control unit with multisensor
DA1/2/3: DALI-kring 1/2/3
PB: Pushbutton
PBI: Pushbutton Interface
MSNSR: movement sensor

– Area 1

– Area 2

– Area 3

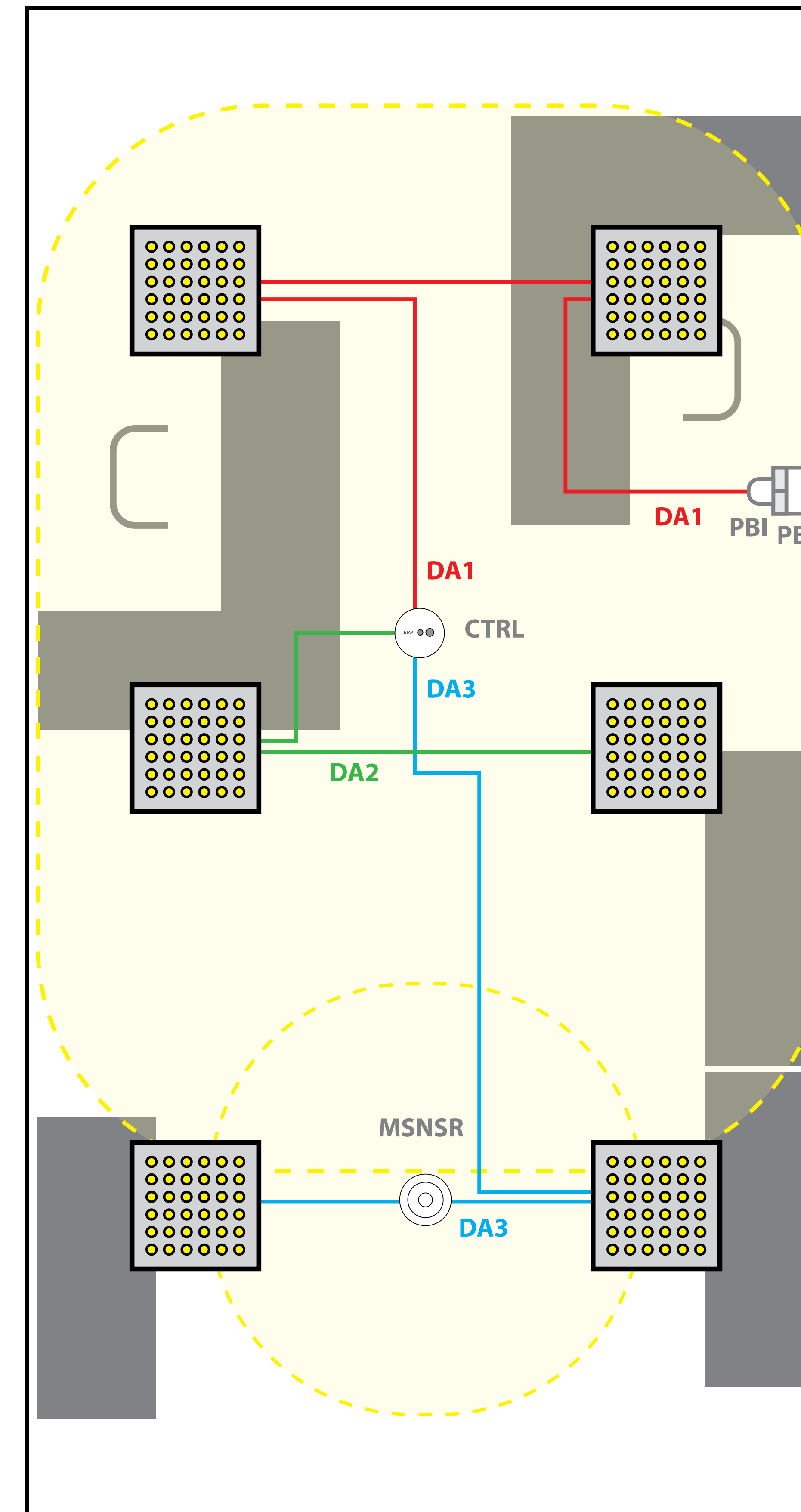
LANDSCAPE OFFICE WITH WINDOW AREA, MIDDLE AREA AND CORRIDOR

Needs:

- Dimming in function of daylight.
- Not ending up in the dark without warning when there's no movement.

Saving ways:

- 🚶 In the case of movement detection, the luminaires of the respective area switch on automatically.
- 🚶 In the window and middle area, luminaires are dimmed 30' after the last movement detection and switched off after 60'. For the corridor this is after respectively 10' and 20'.
- ⚙️ Luminaires in the window and middle area are dimmed, but not completely switched off (default settings).



CTRL: control unit with multisensor
DA1/2/3: DALI-kring 1/2/3
PB: Pushbutton
PBI: Pushbutton Interface
MSNSR: movement sensor

– Window area

– Middle area

– Corridor

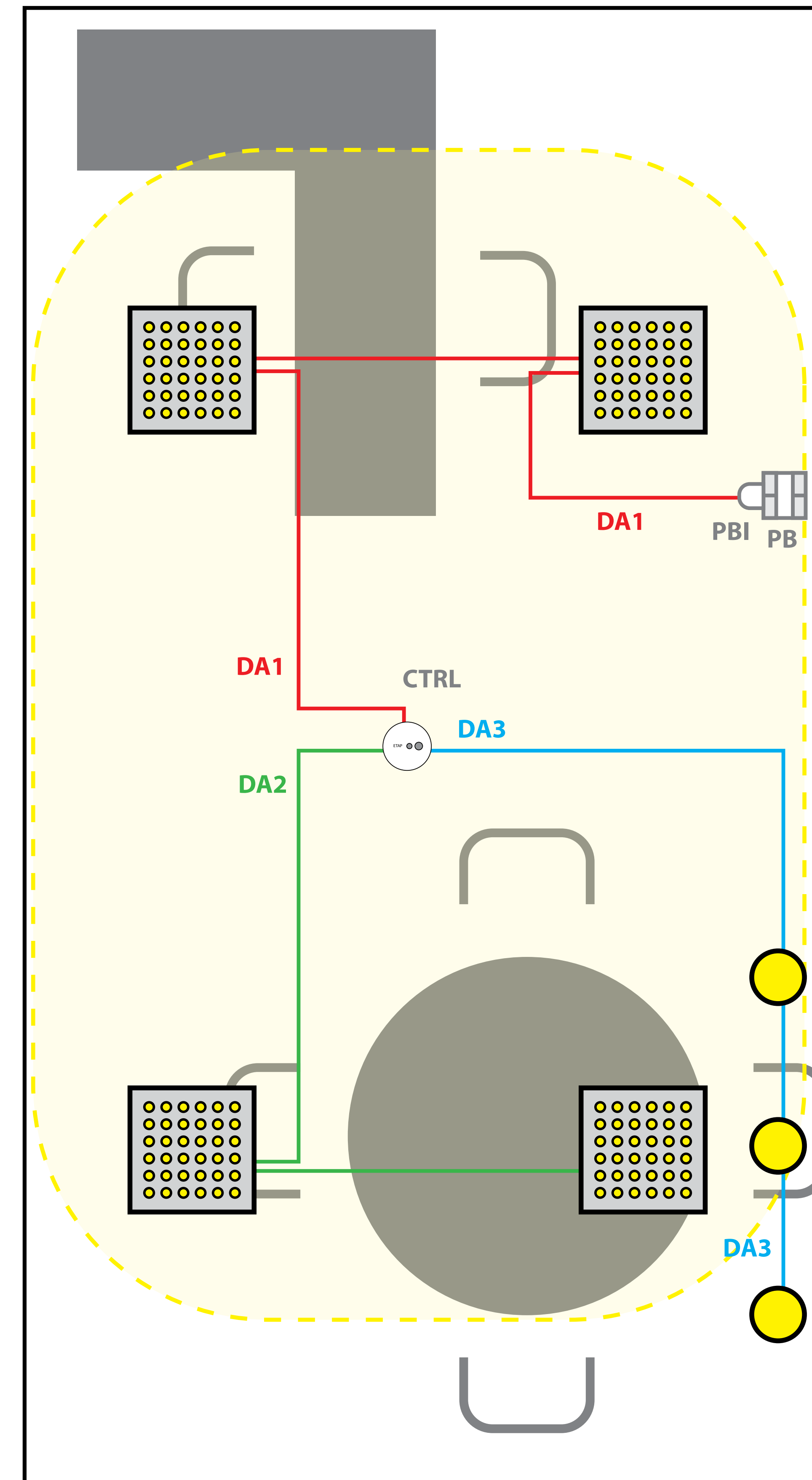
SMALL OFFICE WITH DESK AND MEETING AREA

Needs:

- Employees of small offices are often out of place: lighting in function of presence and activity.
- Separately switchable areas in function of activity (meeting or office work).

Saving ways:

- 🚶 Movement detection activates all luminaires.
- 🚶 All luminaires go out 15' after the last movement.
- ⚙ Equal dimming in the work and meeting area.
- ⚙ The accent lighting is only dimmed if there is lots of daylight.
- ⚙ With sufficient daylight, all luminaires are completely switched off.



CTRL: control unit with multisensor
DA1/2/3: DALI-kring 1/2/3
PB: Pushbutton
PBI: Pushbutton Interface
MSNSR: movement sensor

– Desk area
– Meeting area
– Accent lighting

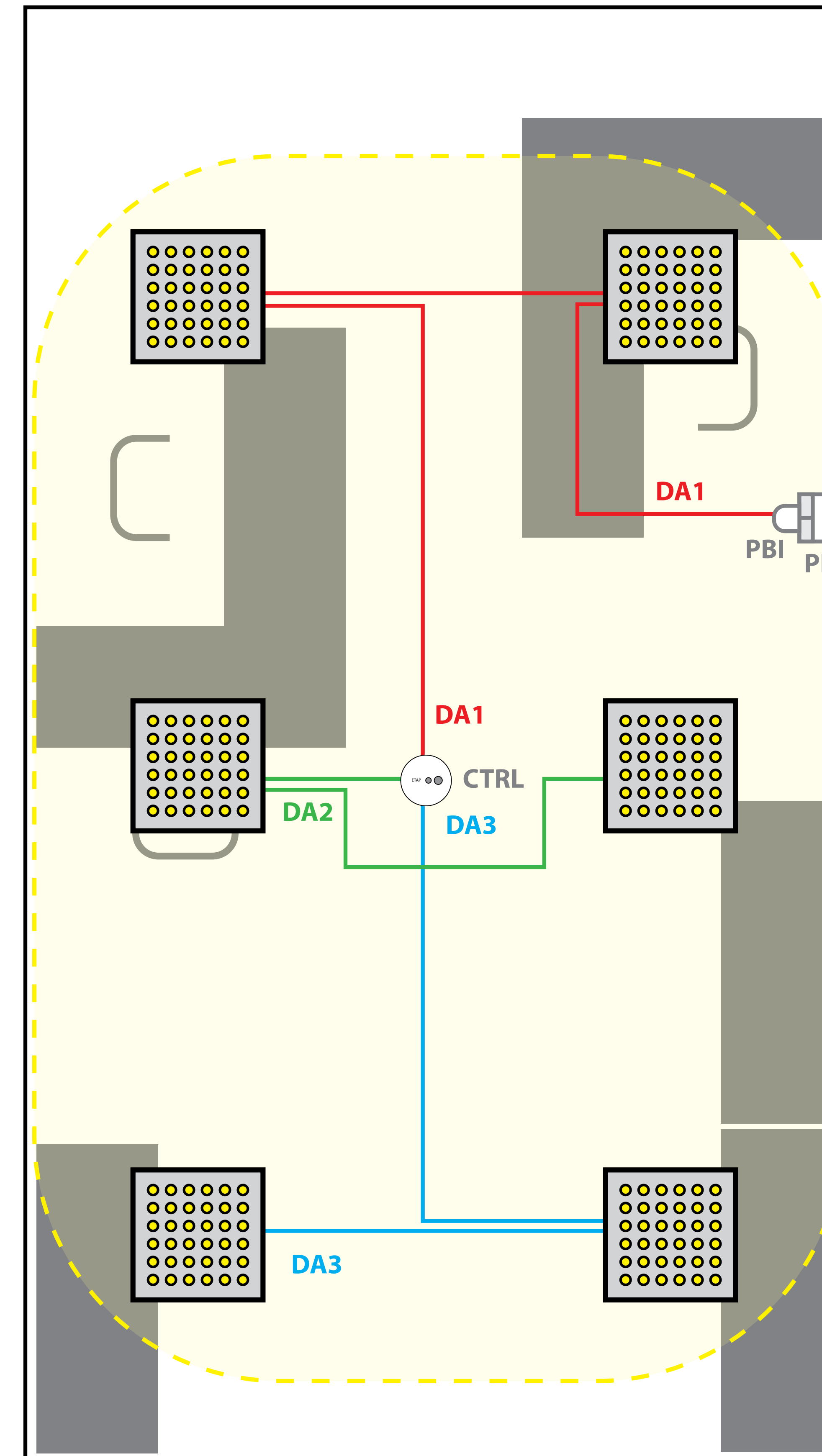
SMALL OFFICE WITH WINDOW, MIDDLE AND CORRIDOR AREA

Needs:

- Room layout according to the daylight.
- Dimming in function of daylight (windows) and movement.

Saving ways:

- 🚶 Movement detection activates all luminaires.
- 🚶 After the last movement detection, there is a 15' waiting time before all luminaires switch off.
- ☀ Luminaires of window and middle area are dimmed.
- ☀ With sufficient daylight, all luminaires are completely switched off.



CTRL: control unit with multisensor
DA1/2/3: DALI-kring 1/2/3
PB: Pushbutton
PBI: Pushbutton Interface
MSNSR: movement sensor

– Window area
– Middle area
– Corridor

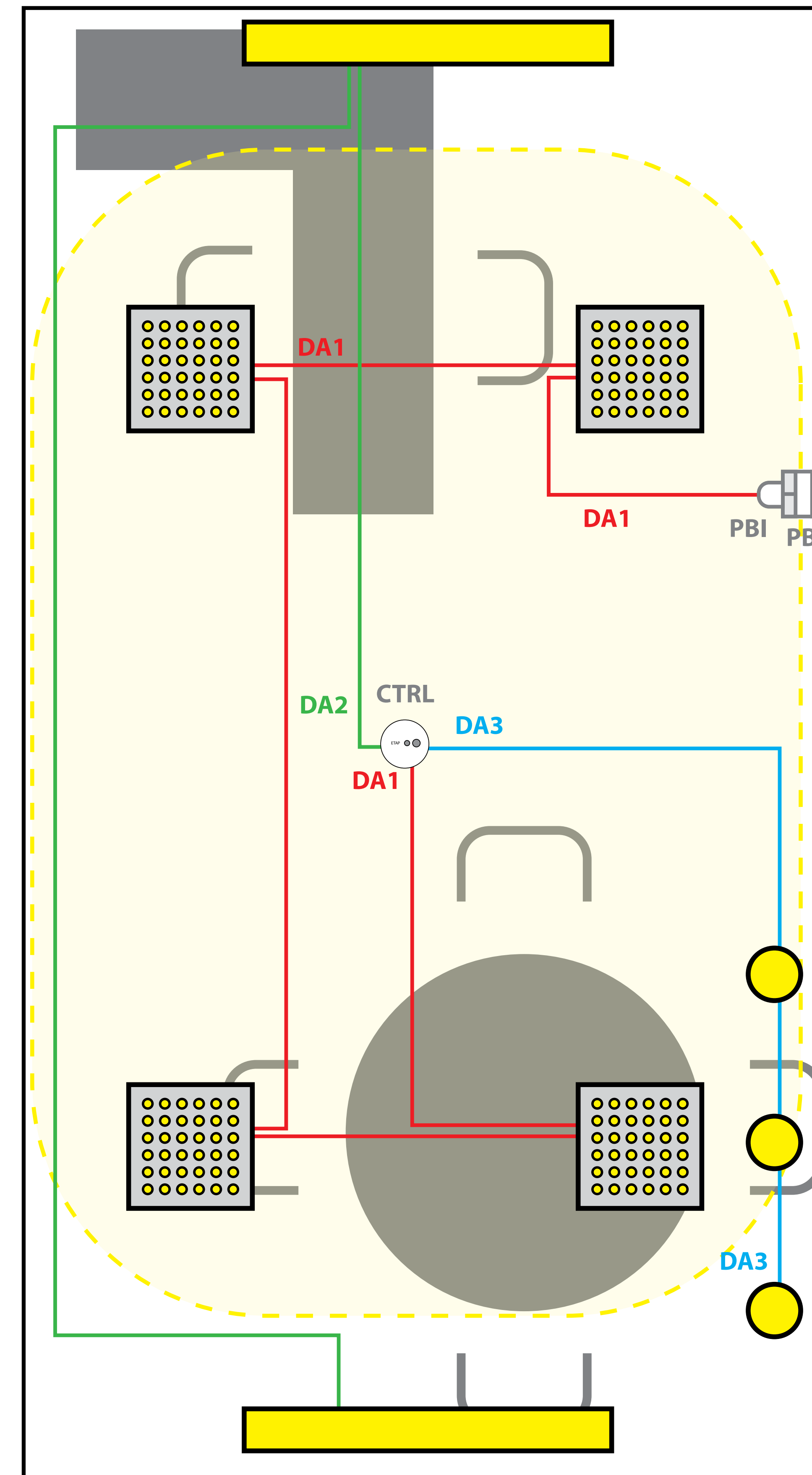
SMALL OFFICE WITH DIRECT, INDIRECT AND ACCENT LIGHTING

Needs:

- Employees in small offices are often out of place (movement detection).
- Separately switchable areas in function of activity (meeting or office work).
- Due to the indirect lighting, a central daylight sensor is not recommended.

Saving ways:

- 🚶 Movement detection activates all luminaires.
- 🚶 After the last movement detection, there is a 15' waiting time before all luminaires switch off.



CTRL: control unit with multisensor
DA1/2/3: DALI-kring 1/2/3
PB: Pushbutton
PBI: Pushbutton Interface
MSNSR: movement sensor

– Direct lighting
– Indirect lighting
– Accent lighting

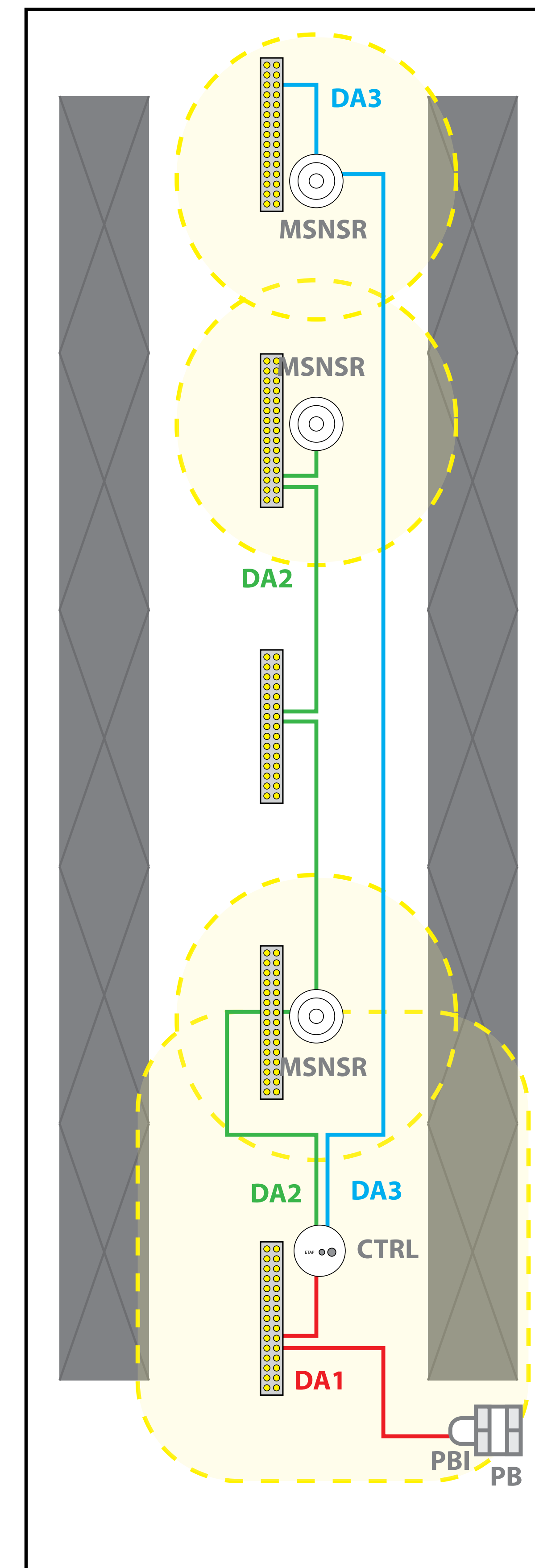
CORRIDOR

Needs:

- Corridors are used frequently, but are also often lit for no reason.
- Good lighting of entrances and exits to find your way out.
- Gradual downshift based on movement detection so that users don't suddenly end up in the dark without warning.

Saving ways:

- 🚶 Movement detection activates all luminaires.
- 🚶 10' after the last movement detection, the luminaires at the entrances are dimmed and after 20' they are switched off.
- 🚶 For the middle area this is respectively 5' and 10'.
- ☀ In case of daylight, all luminaires are dimmed to the same degree, but not completely switched off (default settings).



CTRL: control unit with multisensor

DA1/2/3: DALI-kring 1/2/3

PB: Pushbutton

PBI: Pushbutton Interface

MSNSR: movement sensor

– Entrance 1

– Middle area

– Entrance 2

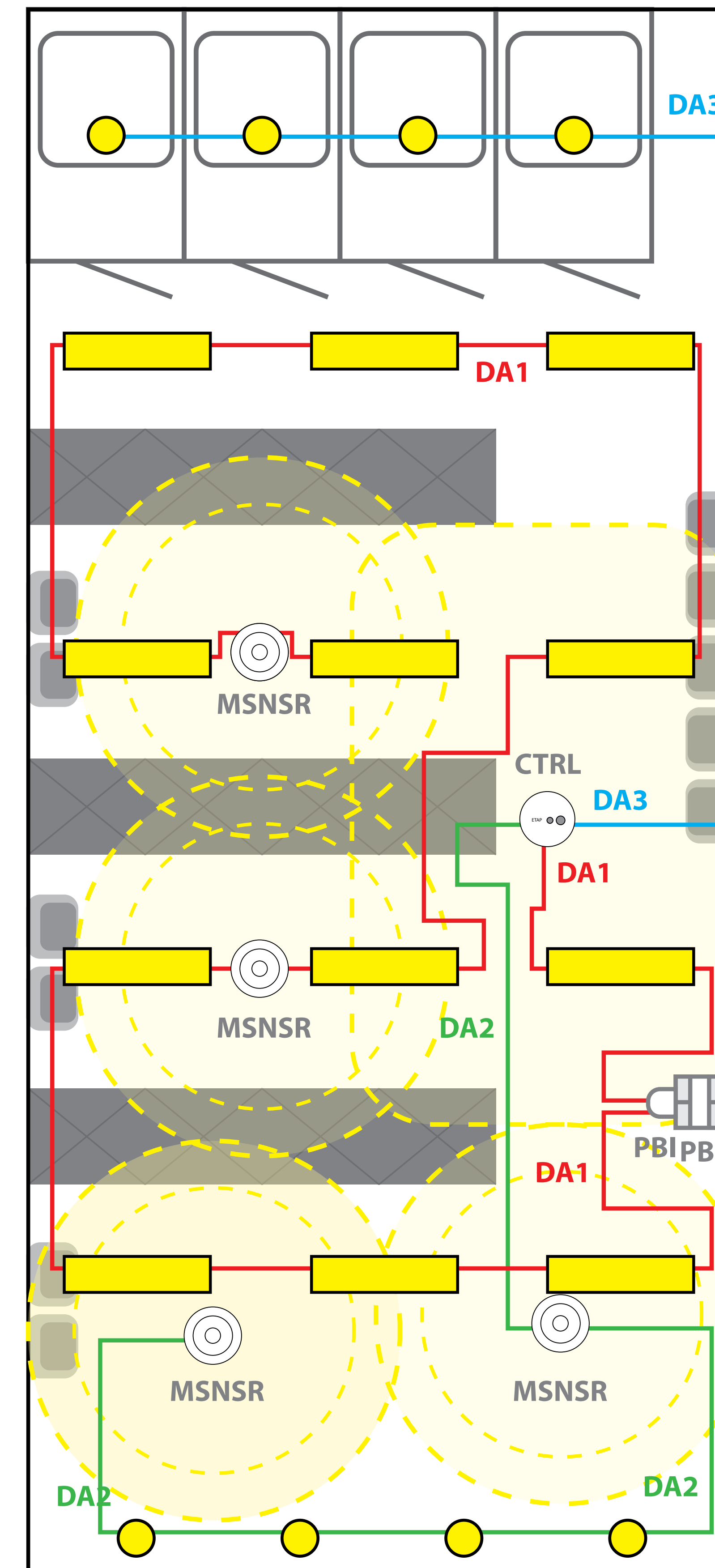
WASHROOMS

Needs:

- For comfort reasons, the movement sensors work globally for all areas.
- Gradual downshift based on movement detection so that users don't suddenly end up in the dark without warning.
- Usually no daylight available, so daylight sensor is switched off (default settings).

Saving ways:

- 🚶 Movement detection activates all luminaires.
- 🚶 5' after the last movement detection, the changing room luminaires are dimmed and switched off after 10'. For the washbowls this is after respectively 2' and 4' and for the cubicles 10' and 20'.



CTRL: control unit with multisensor
DA1/2/3: DALI-kning 1/2/3
PB: Pushbutton
PBI: Pushbutton Interface
MSNSR: movement sensor

- Changing area
- Washbowls
- Restroom cubicles

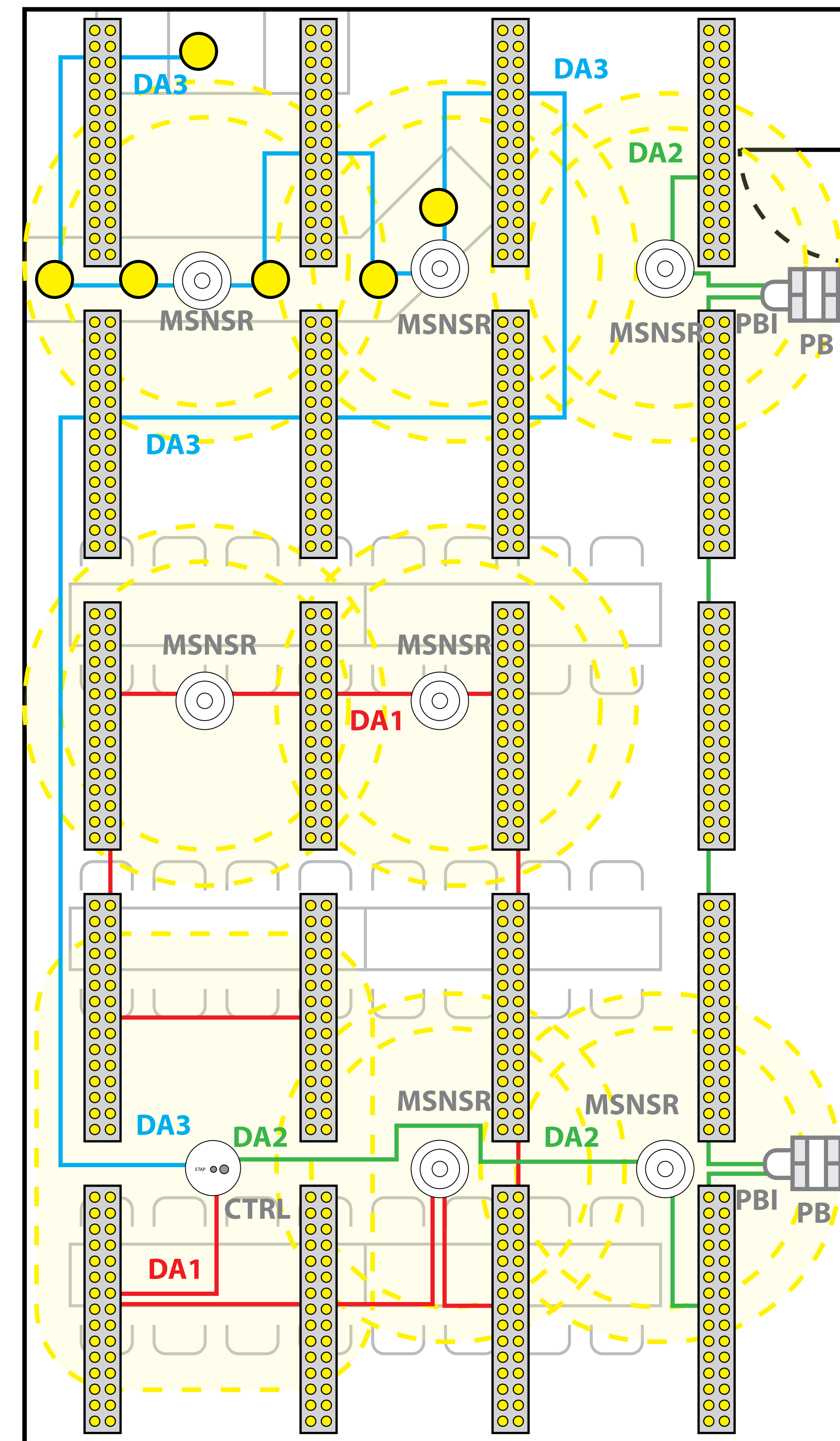
COFFEE CORNER OR CANTEEN

Needs:

- Locally operating movement sensors (within own area) so that, for example, you can work in the kitchen without lighting the main area.
- Manual activation of the main area so that the lighting does not light up unnecessarily in the event of a brief presence.

Saving ways:

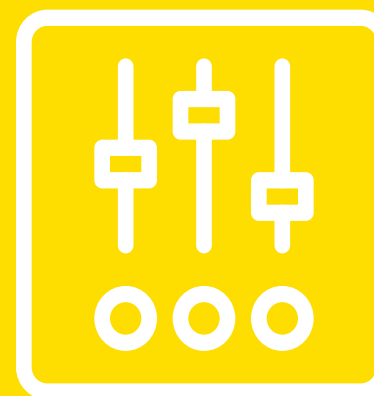
- 🚶 Movement detection activates the luminaires of the entrance and the kitchen.
- 🚶 Manual operation in main area by push button or app.
- 🚶 20' after the last detection, the luminaires of the main area are dimmed and switched off after 40'. In the hallway and kitchen this is after respectively 5' and 10'.
- ☀ The daylight sensor only dims the main area. The lighting is not completely switched off based on daylight (default settings).



CTRL: control unit with multisensor
DA1/2/3: DALI-kring 1/2/3
PB: Pushbutton
PBI: Pushbutton Interface
MSNSR: movement sensor

– Main area
 – Entrance
 – Kitchen

You can find layout and detailed information of all applications in [the installation manual](#)



You have other needs? Do you want customized scenarios or waiting times? No problem: the installer, building manager or facility manager can easily adapt the settings to your situation and specific needs.



