

## Lighting design guide

# Classroom



## Classrooms are multitasking, multi-media environments with specific requirements. Lighting needs to be:

Challenges

· Adaptable to students' activity levels over the course of a school day: from staying focused while reading and taking tests, to listening to the teachers' presentations, to relaxing

- during break. Uniform and visually comfortable, while avoiding glare · Designed for flexible table arrangements · Energy efficient

## these spaces are panels and light lines.

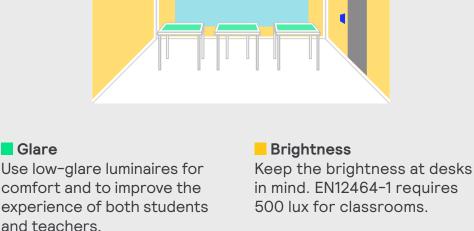
Our solution

Illuminate classrooms with general uniform light. This solution is usually based on a grid of recessed or surface-mounted luminaires with limited glare. The most common luminaires in

- Our lighting products contribute to productivity while supporting daytime vitality and alertness with well-designed and well-lit spaces. Our smart luminaires and sensors work seamlessly with smart
- meet the lighting requirements for different visual tasks, such as different learning modes.

lighting systems such as Interact Pro. This allows users to

Lighting design insights



#### presence detection. Lights activate instantly when sensors detect movement.

Controls

Glare

Locate the controls directly above the desks to optimize

#### smartboards and projectors need a more dim setting. To

For better contrast

Board

lighting, add smart luminaires and control systems like Interact Pro. Standard light plan

Room height: 2.8m

simultaneously provide the classroom with sufficient

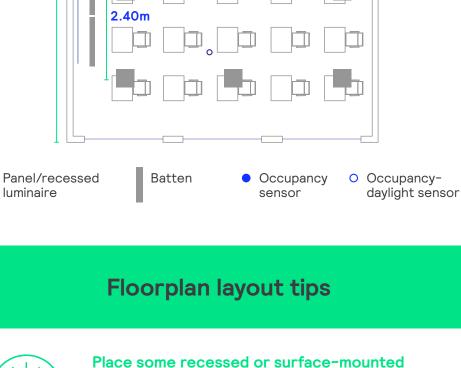
#### This floorplan and luminaire placement meet the minimum norm requirements for classroom lighting. Interact Ready luminaires together with smart wireless sensors enable you to access the benefits of our smart lighting system Interact Pro.

Typical arrangement of luminaires and stand-alone sensors

# 2.40m

2.40m

7.40m



luminaires above the tables. Maximum distance: 2.4m (=3 empty 60 × 60cm tiles). Lower ceiling

heights will need a shorter distance.

Light up the board. Place battens in front of it to make it more visible. Keep them in a different circuit, so they can be switched on and off on

Place daylight sensors over the tables that are

sensor every 4 or 6 luminaires.

Include some intelligent switches. These

(e.g. focus mode, presentation mode...)

accessories will let you pre-set different scenes

#### closer to windows for optimal daylight detection. $((\circ))$ Luminaires will dim with higher natural light levels leading to greater energy savings. Guidance: One

demand.

Product recommendations

**Philips** 

occupancy-

daylight sensor

**Exemplary order list** 55 m<sup>2</sup> classroom

**Philips** 

occupancy

sensor

interact

interact ready.

interact ready.

ready. interact

ready.

ready.

4-button

switch

9

3

1

1

1

# **Product name**

**Optional** 

4-button switch

Philips CoreLine panel

Philips Coreline batten

RC132V 36S/840 WIA W60L60 OC

Philips occupancy sensor IA CM WH

Philips occupancy-daylight sensor IA CM WH

DN140B LED20S/840 WIA-E-C

**Philips** 

CoreLine

panel

### 80% energy\* with automated lighting, schedules, daylight

**Energy and** 

cost efficient

Help save up to

## and motion sensing. and productivity

Another tool to your next project

\* In combination with LED lighting. Source: Building Energy Exchange 2017

signal cables.

Use our handy 6-step-checklist to create a lighting proposal for a classroom, and convince every

potential new customer!

# Check it out

We aim to help you work faster, better, and smoother. How? Check:

interact

**Signify** 

PHILIPS



**Philips** 

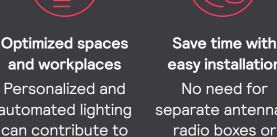
CoreLine

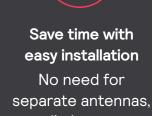
batten

interact



and workplaces Personalized and automated lighting can contribute to more wellbeing





Our global brands:

signify.com/installers