

# EDUCATION

# **EDUCATION**

"There is only one thing in the long run more expensive than education:  
no education."

John F. Kennedy

# **EDUCATION MAKES A DIFFERENCE**

## **PUBLIC.**

Educational institutions play a particularly important role in our society: as places of learning, research and community, they shape us from childhood.

## **Science & Education**

From elementary schools to science institutes, well-thought-out and economical LED lighting can help to improve learning and research environments and thus improve levels of education and knowledge.

PROLICHT offers individually configurable lighting solutions that impress with energy efficiency as well as the best quality of light. Our products can be used in a sophisticated way to improve teaching and learning conditions - this is the EDUCATION world of PROLICHT.

# LIGHT FOR ALL ROOMS



KINDERGARTEN  
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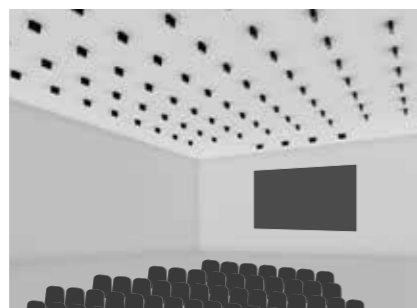
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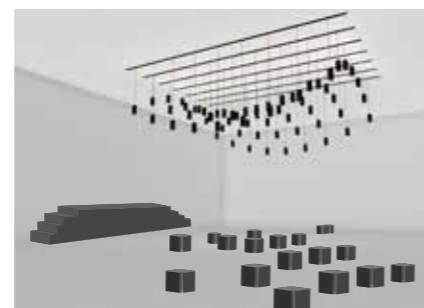
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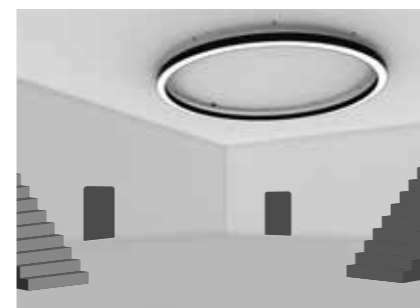
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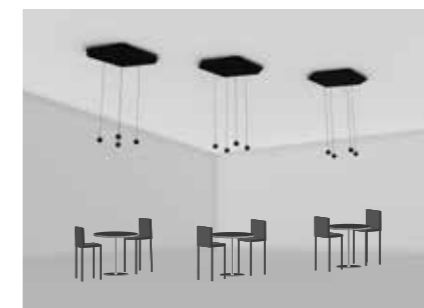
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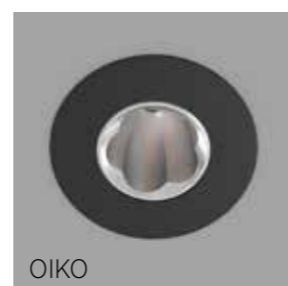
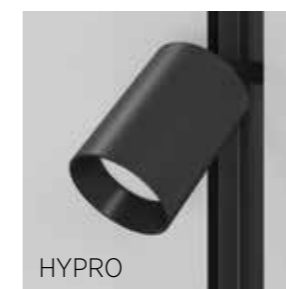
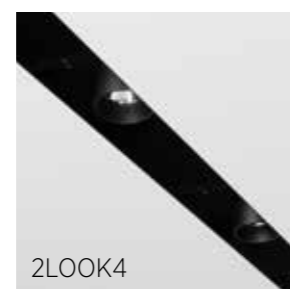
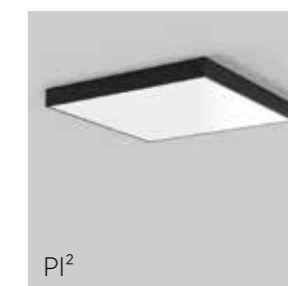
BREAK ROOM  
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# YOUR PROJECT MAKES YOUR PRODUCT



# KINDERGARTEN

## REQUIREMENTS & NORMS

Planning of the lightning system based on EN 12464-1

### PLAY ROOMS

Illuminance	min. 300 Lux
Uniformity (Uo)	0.4
Glare control	UGR ≤22

### CRAFT ROOMS

Illuminance	min. 300 Lux
Uniformity (Uo)	0.6
Glare control	UGR ≤19

- Direct-indirect lighting for an appealing room atmosphere
- Warm white light colors (3000K) for high levels of well-being
- Holistic lighting concept with integration of daylight for energy efficiency
- Emergency and safety lighting

Kindergartens are adventure spaces that should offer every child the best possible conditions and the best development opportunities.

However, since children's ability to perceive only evolves gradually, it is particularly important to create a stable atmosphere in which they can orientate themselves and feel comfortable.

Rooms that are used by young children place many demands on the architecture, as these spaces should offer room for movement, relaxation and security.

With the product families DICE, SUPER-G and GLORIOUS, individualized in the 25 PROLICHT colors, a lighting concept tailored to children is facilitated, which allows optimal and flexible use in everyday kindergarten life.

## PRODUCT RECOMMENDATIONS

	DICE WALL	INVADER	GLORIOUS	SUPER-G	SIGN	GROOVE
TRIMLESS						
RECESSED						
SURFACE						
SUSPENDED						







GLORIOUS | SURFACE MOUNTED





The GLORIOUS lights are available as built-in, surface-mounted and pendant versions available and can be supplied with individual diameters on request.



INVADER ON

PHOTO: ARMIN KUPRIAN



PHOTO: MARTIN VANDORY

GLORIOUS | PENDANT LAMP



PHOTO: ARMIN KUPRIAN

GLORIOUS | SURFACE - MOUNTED LIGHT



# CLASSROOM

## REQUIREMENTS & NORMS

Planning of the lighting system based on EN 12464-1

## ILLUMINANCE

Day school	min. 300 Lux
Evening school	min. 500 Lux
Board / Whiteboard	min. 500 Lux

- Glare control in all directions - UGR<16 / 19 / 65° < 1500/3000 cd/m<sup>2</sup>
- Preferably separately switchable circuits for general lighting, black-board lighting and room lighting
- Holistic lighting concept with integration of daylight to save energy
- Emergency and safety lighting

Each form of teaching creates its own demands on the classroom, with the illumination being of great importance. A well thought-out lighting concept makes a decisive contribution to concentrated and efficient learning.

With different illuminance levels for different zones within a classroom, the attention of the students is increased and an optimal learning environment is created.

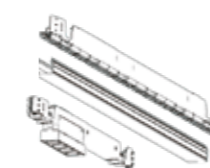
PROLICHT products support modern teaching with flexible lighting solutions and illuminance levels, individually adapted to the respective area of the classroom. The product families MAGIQ, SUPER-G, SIGN, HYPRO, GLORIOUS or IDAHO are especially suitable for these requirements.

## PRODUCT RECOMMENDATIONS

	HYPRO	IDAHO	SIGN	SIGN FLEX	GLORIOUS	SUPER-G	MAGIQ
TRIMLESS							
RECESSED							
SURFACE							
SUSPENDED							







## HYPRO X RICO REFLECTOR

In the HYPRO-X system, indirect and direct lighting are sensibly combined. The indirect lighting avoids the formation of shadows and does not create strong contrasts, the direct lighting with the RICO LINE ensures glare-free direct work lighting.

In classrooms, the eye often alternates between near and far, for instance from the desk to the board. If the brightness between these two areas differs too much, the eyes find themselves adjusting frequently and rapidly become tired.





SUPER-G lights are available in two widths (65 and 150 mm) and, as a special highlight, can also be illuminated indirectly.



PHOTO: CHRISTIAN FLATSCHER



SUPER-G SLIM | PENDANT LAMP

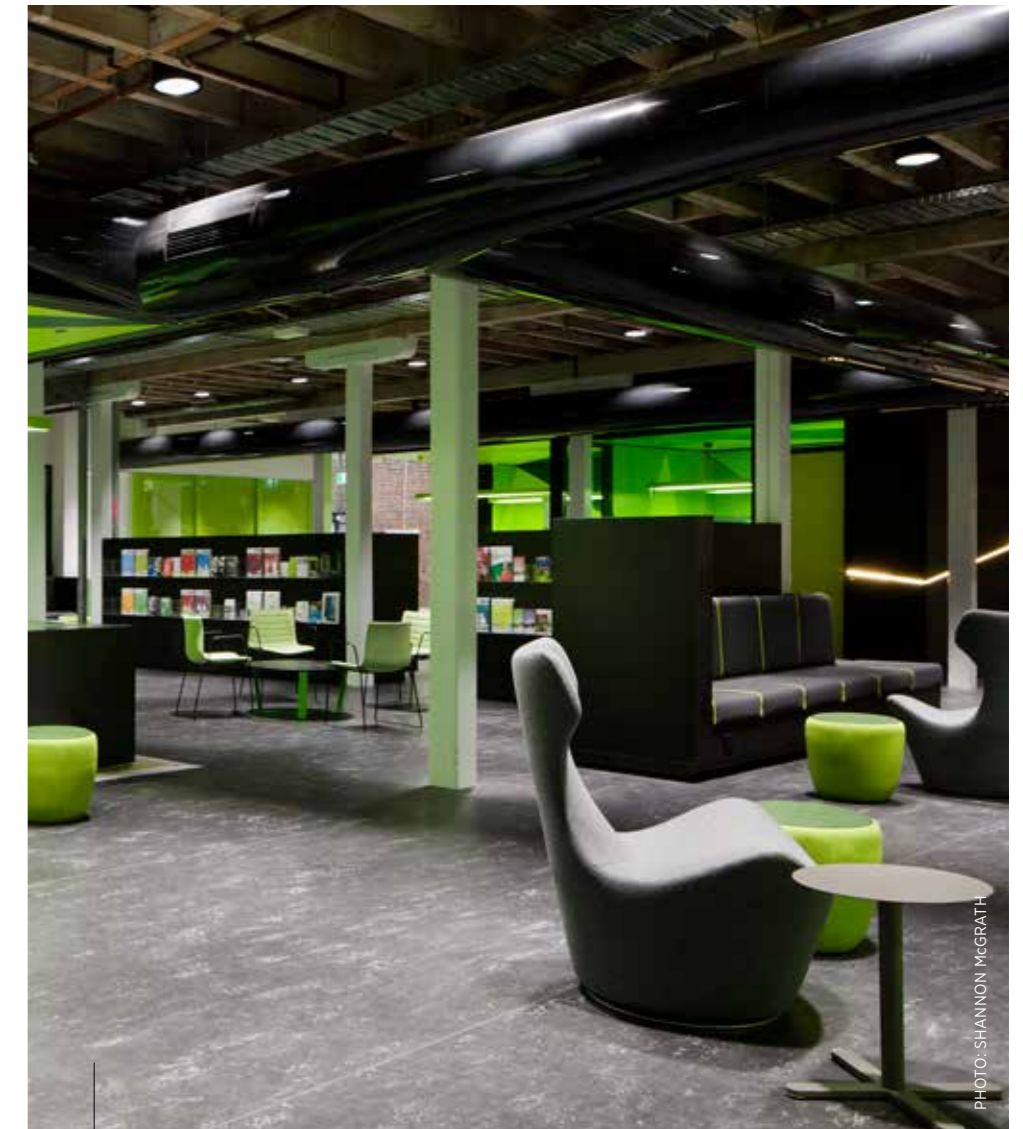




SIGN | SURFACE-MOUNTED

PHOTO: MARTIN TESSLER

## OPEN LEARNING



IDAHO | PROFIL LIGHTS

PHOTO: SHANNON MCGRATH



# FACULTY ROOM

## REQUIREMENTS & NORMS

Planning of the lighting system based on EN 12464-1

- Illuminance of 500 lx for room light / workplace
- Glare reduction for computer workspaces (UGR ≤ 19)
- Well balanced direct-indirect lighting for concentrated work and reading
- Emergency and safety lighting

Teachers' rooms are mostly meeting rooms, workplaces and break rooms in one. Different areas and niches can create the right environment for every purpose and ensure more efficiency in everyday work. In order to do justice to the different scopes of application a lighting solution is required that is suitable for all conditions.

The lighting should primarily create a pleasant feeling that supports both concentrated work and a communicative atmosphere. With a combination of homogeneous general lighting and direct, individually adjustable light for desk workstations, a teacher's room is ideally equipped for all situations.

With the families HYPRO, IDAHO and HADI as well as the floor lamps HYPRO-F and @WORK, PROLICHT offers an extensive range of products for spaces in which communication and concentrated work are combined in order to create optimal conditions for teachers' rooms.

## PRODUCT RECOMMENDATIONS

	HYPRO + RICO	IDAHO	HADI Q	HADI M	@WORK	HYPRO - F 90	HYPRO - F 160
RECESSED							
SURFACE							
SUSPENDED							
FREE-STANDING LUMINAIRE							







PHOTO: TAE-HA JEON



PHOTO: ARMIN KUPRIAN

HYPRO-X SMALL | PENDANT LAMP



PHOTO: INGARCI LUBORSLADKY

GLORIOUS | SURFACE MOUNTED





PHOTO: TAE-HA JEON

# LIBRARY

## REQUIREMENTS & NORMS

Planning of the lighting system based on EN 12464-1

GENERAL	iniformity (Uo) 0.6 glare control UGR ≤19
Reading area	500 Lux
Bookshelves	200 Lux

- Glare reduction for computer works paces (UGR ≤19)
- Well balanced direct-indirectlighting for concentrated work and reading
- Accent lighting on shelves/doors to support the routing
- Emergency lighting


















Libraries are no longer just a place to get books. The length of stay of the visitors is oftentimes extensive and therefore great importance is attached to the creation of a pleasant atmosphere. Study stations and computer workstations are taking up more and more space and are changing the requirements for the interior design concept and hence for lighting.

Luminaires with direct and indirect light components create a pleasant and inviting atmosphere and at the same time prevent the risk of glare.

For separate reading or work areas, an individual workstation light is recommended in addition to a uniform general illumination.

With the PROLICHT product families such as SIGN, IDAHO and HYPRO-X, every requirement that is posed to the lighting concept in libraries can be met and thus enables every visitor to experience an optimal lighting atmosphere.

## PRODUCT RECOMMENDATIONS

	HYPRO-X	IDAHO	SUPER-G	NEVERENDING	GLORIOUS SLIM	SIGN FLEX	IMAGINE
TRIMLESS							
RECESSED							
SURFACE							
SUSPENDED							





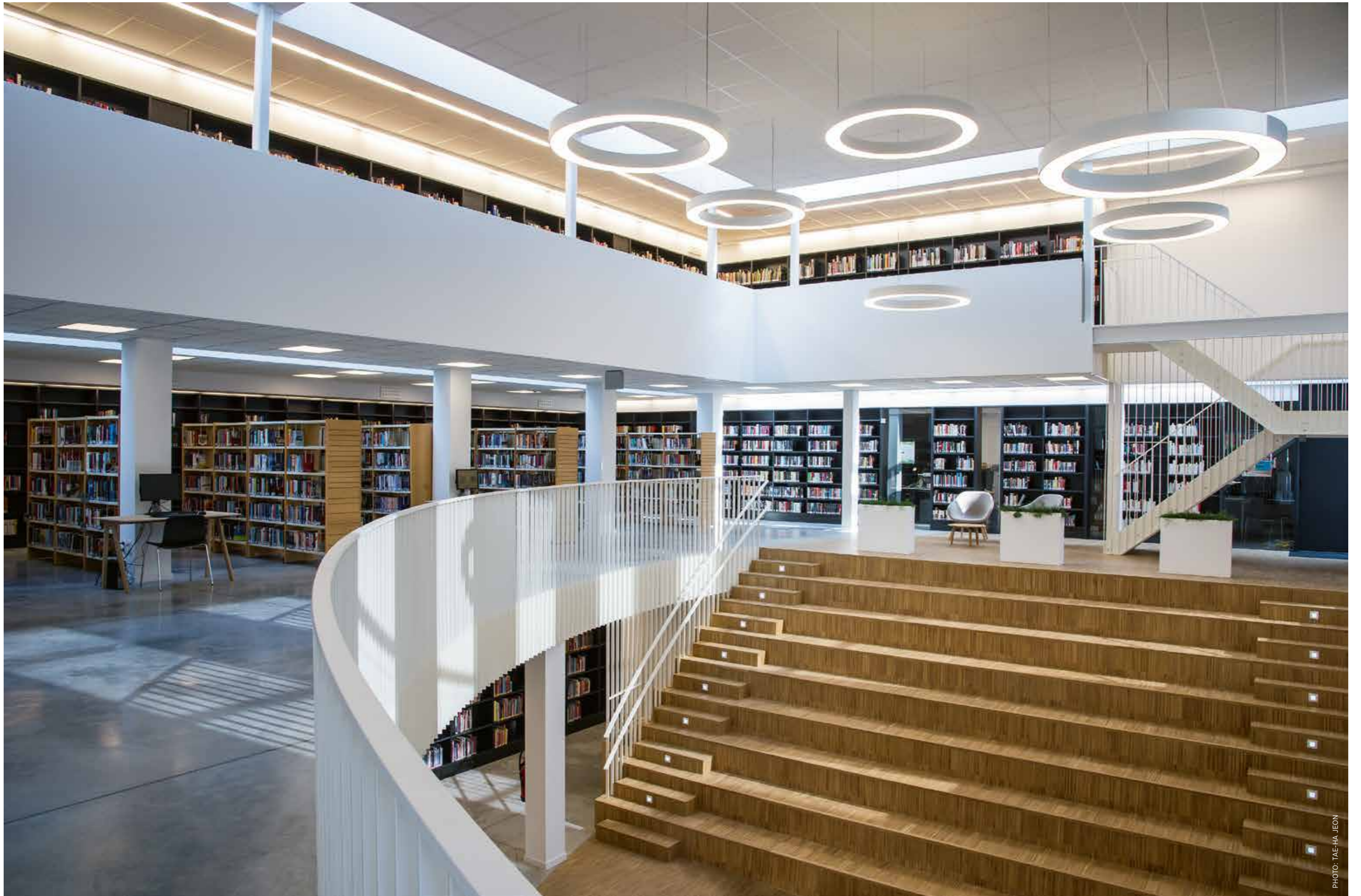


PHOTO: TAE-HA JEON





INSPIRATION: VIEWTURE.MEDIA



INSPIRATION: SYNA

SIGN DIVA DANCER

HYPRO-F | FREE-STANDING LUMINAIRE



PHOTO: WWW.KÜTTEL.CH



PHOTO: WWW.KÜTTEL.CH

SUPER- G | PENDANT LAMP

# LECTURE HALL

## REQUIREMENTS & NORMS

Planning of the lighting system based on EN 12464-1

- Preferably separately switchable circuits (Room light/ Board light/ Speaker's desk)
- Orientation lighting during lectures (Entrance/Exit, Stairs)
- Emergency and safety lighting

## ILLUMINANCE

min. 500 lx  
inifirmity (U<sub>o</sub>) 0.6  
Glare reduction UGR ≤19

Speaker's Desk / Stage	min. 750 Lux 0.7 U <sub>o</sub>
Board	min. 500 Lux 0.7 U <sub>o</sub>

Lecture rooms can be used for a wide variety of presentation purposes. Variable seating, different presentation techniques and different areas in these mostly large and often windowless rooms require a detailed lighting concept.

A flexible, variable lighting solution not only enables individual lighting of the individual areas in a lecture hall or adaptation to the type of lecture, but also harmonious lighting conditions throughout the event, from the introduction to the applause.

With the families 2LOOK4, IDAHO, GROOVE, MECHANIQ, OIKO PRO and MAGIQ PRO, PROLICHT enables an extensive range of lighting solutions to meet the complex requirements of a versatile lecture room.

## PRODUCT RECOMMENDATIONS

	2LOOK4	IDAHO	GROOVE	MECHANIQ	OIKO PRO	MAGIQ PRO
TRIMLESS						
RECESSED						
SURFACE						
SUSPENDED						







INSPIRATION: SYNA

MAGIQ LFO

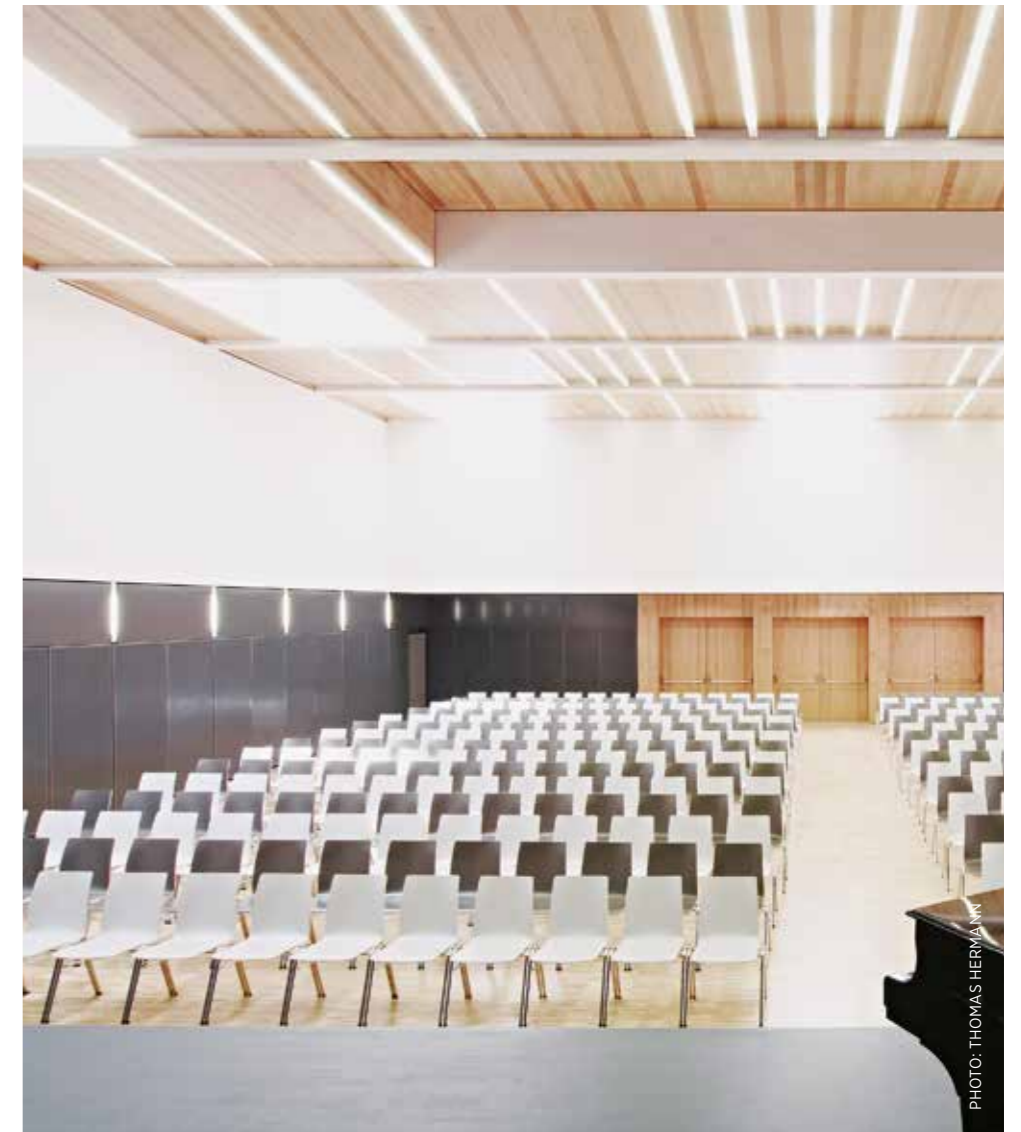


PHOTO: THOMAS HERMANN



# ASSEMBLY HALL

## REQUIREMENTS & NORMS

Planning of the lighting system based on EN 12464-1

Illuminance	200 Lux
Uniformity (Uo)	0.4
Glare control	UGR ≤ 22

- Different lighting systems and scenarios for an inviting lighting mood and atmosphere
- Light management system with time and daylight dependent scenes
- Holistic lighting concept with integration of daylight to save energy
- Emergency and safety lighting

The auditorium in educational institutions is usually designed as a multi-purpose room that is used for a large number of events. Due to the different usage scenarios, the lighting requirements are also diverse. First and foremost, the lighting must be flexible in order to ensure a communicative, festive or business-like atmosphere if necessary.

As a meeting place, its lighting concept should ideally be equipped for a wide variety of situations and create an environment in which people like to come together and feel comfortable.

With the product families 2LOOK4, IDAHO, GROOVE, MECHANIQ, OIKO PRO and MAGIQ PRO, PROLICHT offers ideal products to be flexibly and easily equipped for any type of use of an auditorium.

## PRODUCT RECOMMENDATIONS

	GLORIOUS	GLORIOUS QUANTUM	GLORIOUS VICTORY	SIGN	BIONIQ	MAGIQ PRO	GHOST BUNGA
TRIMLESS							
RECESSED							
SURFACE							
SUSPENDED							







PHOTO: ING. ARCH. LUBOR SLADKY

VICTORY SUSPENDED



PHOTO: TOM ROE

GLORIOUS SUSPENDED



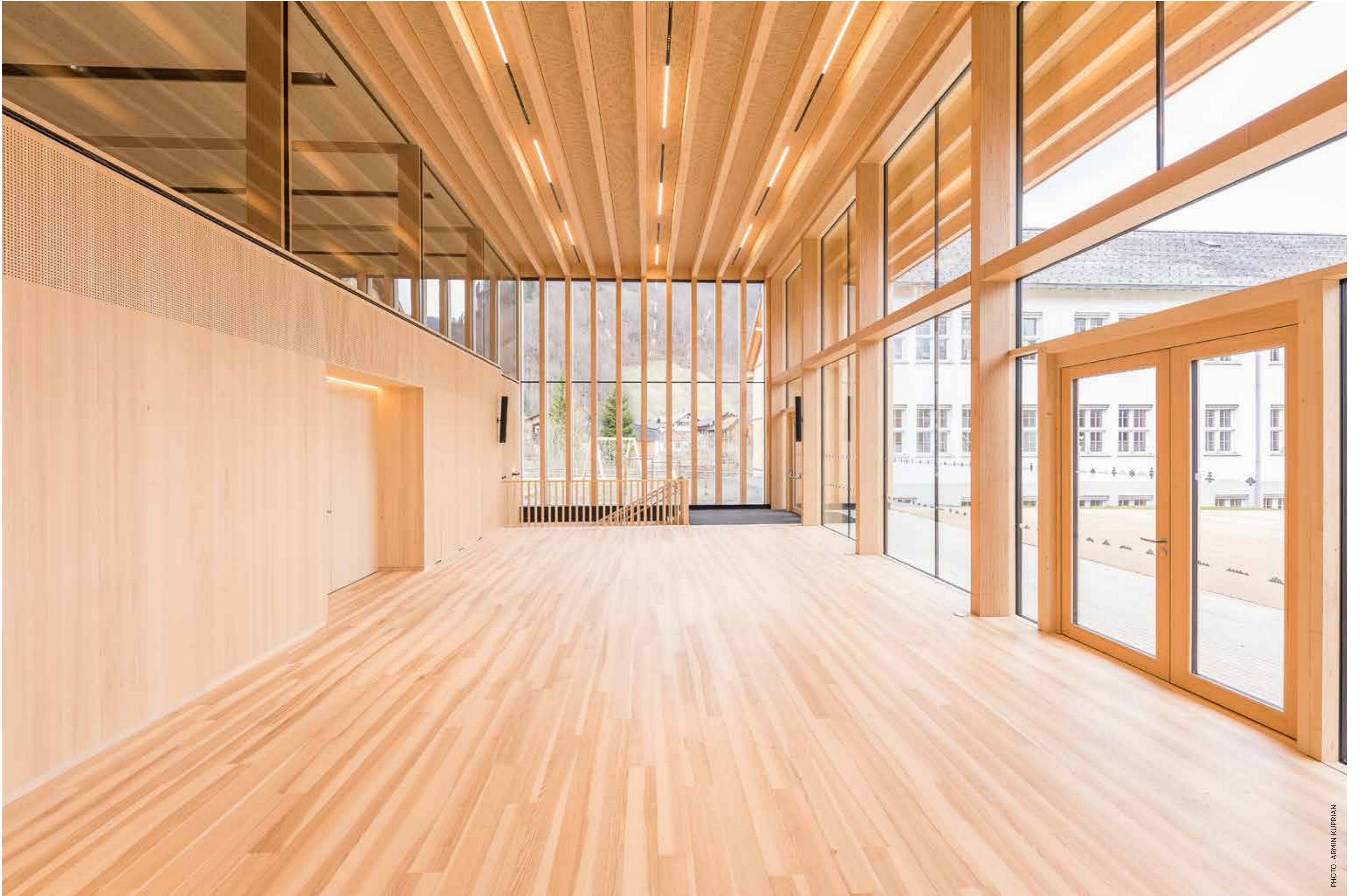


PHOTO: ARMIN KUPRIAN



# CORRIDORS

## REQUIREMENTS & NORMS

Planning of the lightning system based on EN 12464-1

### CORRIDORS:

Illuminance	min. 100 Lux
Uniformity (Uo)	0.4
Glare control	UGR ≤ 28

- Presence and daylight sensors for optimal energy efficiency
- Accent lighting for information areas (information boards, Orientation plans, etc.)
- Well-distributed light and bright walls for an attractive room feel
- Emergency and safety lighting

### STAIRS:

Illuminance	min. 150 Lux
Uniformity (Uo)	0.4
Glare control	UGR ≤ 25

Hallways, stairs and corridors usually also function as waiting rooms and meeting areas in educational institutions. In addition to the safety and control aspect, also other tasks for the lighting concept emerge from that.

A pleasant atmosphere through direct or diffuse ceiling lights stimulate communication between the students and support a pleasant stay in the school building. Especially in large buildings, light can also make a significant contribution to orientation and serve as a guidance system for the students. Particularly dangerous zones such as stairs must be well lit in order to ensure everyone's safety even in hectic situations by providing a high-contrast environment.

The PROLICHT product families NEVERENDING and ONLY LIGHT are particularly suitable for safety and guidance lighting for corridors and create a communicative atmosphere.

## PRODUCT RECOMMENDATIONS

	MAGIQ PRO	INVADER	GLORIOUS	SUPER-G	ONLY LIGHT	IDAHO	NEVERENDING
TRIMLESS							
RECESSED							
SURFACE							
SUSPENDED							







PHOTO: CHRISTIAN FLATISCHER

GLORIOUS | SURFACE



The GLORIOUS lights are available as recessed, surface-mounted and pendant versions. available and can be produced with individual diameters on request.



SUPER-G lights are available in two widths (65 and 150 mm) and, as a special highlight, can also be illuminated indirectly.



PHOTO: THOMAS SCHROTT

SUPER-G | PROFIL SYSTEMS





PHOTO: PHILIP KOTTLORZ



PHOTO: MARTIN VANDORY



PHOTO: MARTIN VANDORY



PHOTO: LUKAS SCHALLER



INSPIRATION: REINHOLD ERK



PHOTO: AITOR ORTIZ





# BREAK ROOM

## REQUIREMENTS & NORMS

Planning of the lightning system based on EN 12464-1

Illuminance	min. 200 Lux
Uniformity (Uo)	0.4
Glare control	UGR ≤22

- Warm light colors (2700K- 3000K) for a feel-good atmosphere in the room
- Mix of accentuated and indirect light
- Different lighting moods for a flexible use of space
- Holistic lighting concept with integration of daylight to save energy
- Emergency and safety lighting

Break rooms play a major role in educational institutions. In order to be able to concentrate and study well, breaks are immensely important. Specially designed rooms or areas that separate learning and relaxation are ideal for rapid regeneration.

Break areas are mostly multifunctional rooms and therefore make extensive demands on the lighting concept. Well-designed color rendering is necessary for dining areas in order to make food look appetizing. With a mix of accentuated and indirect light in warm light colors, a pleasant ambience is created, which at the same time enables flexible use of the space.

The PROLICHT product families SNOOKER, CODE and SIGN are particularly suitable for creating a relaxing and inviting lighting atmosphere as well as an appealing design concept.

## PRODUCT RECOMMENDATIONS



















	SNOOKER	INVADER	GLORIOUS	SUPER-G	SIGN	CODE	CLICKTRACK
TRIMLESS							
RECESSED							
SURFACE							
SUSPENDED							







PHOTO: DONAL MURPHY



PHOTO: BARA PRASLOVA



INSPIRATION: BIEFFE

SIGN DIVA | MAGIQ PRO



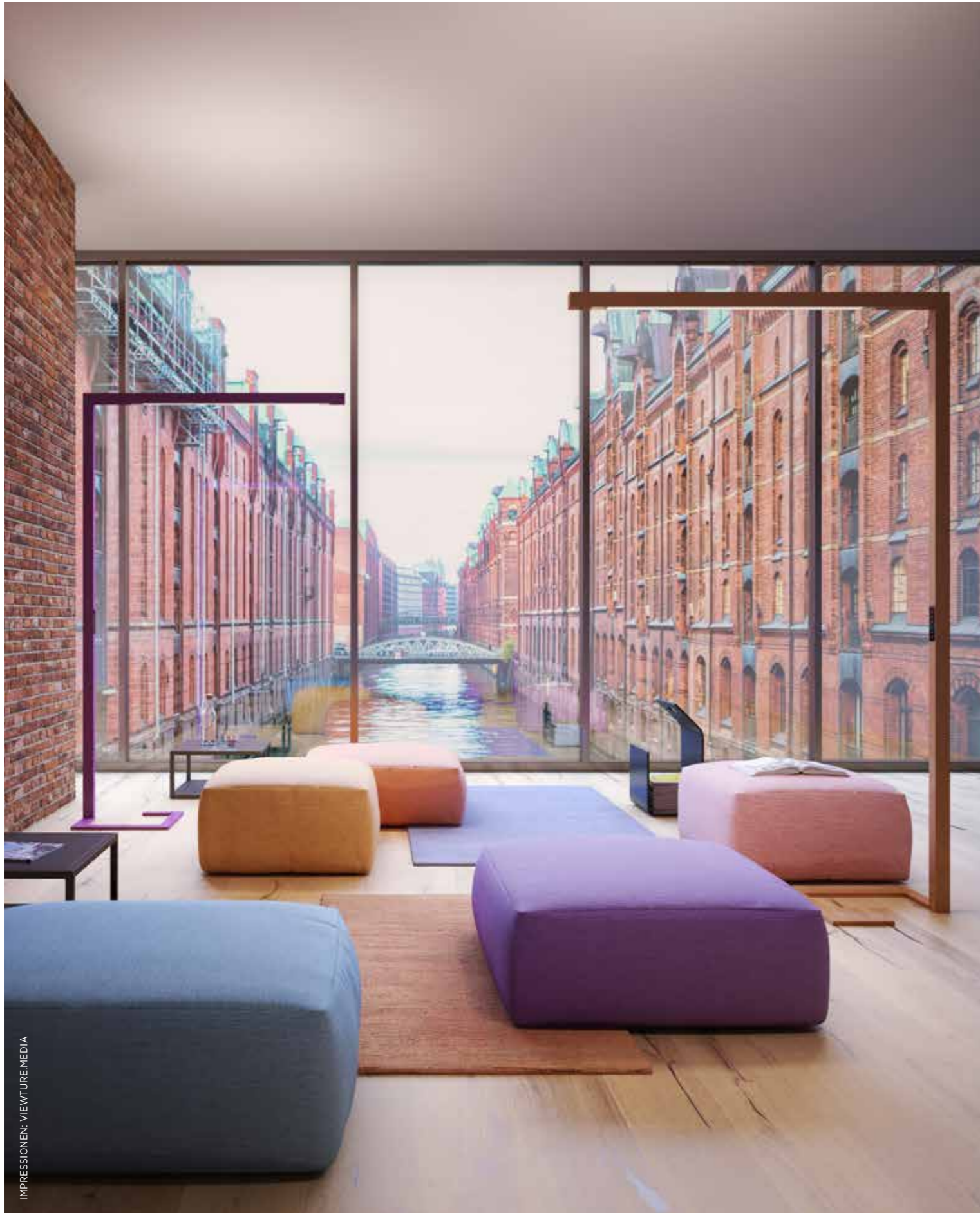
PHOTO: ING. ARCH. LUBOR SLADKY

HYPRO | INVADER HANGOVER 30



ARCHITECT: ARTELIER HEISS ARCHITECTEN







# GYM

## REQUIREMENTS & NORMS

Planning of the lightning system based on EN 12464-1

Illuminance	300 Lux
Uniformity (Uo)	0.6
Glare control	UGR ≤ 22

- Ball impact resistant and shockproof luminaires
- Good color rendering (CRI > 80) with neutral white light colors
- Separately controlable lighting for multi-purpose halls
- Emergency and safety lighting

Sports halls in educational institutions are mostly used for a wide range of sports. Therefore, flexible and individually controllable lighting is of great importance to ensure that optimal light is provided for gymnastics lessons, slow sports and competitions.

When it comes to lighting sports halls, the quality of light is particularly important. Especially perfect illuminance, homogeneous light distribution, freedom from glare and good color rendering are parameters that have to be addressed in the lighting concept.

PROLICHT offers for the special requirements of a sports hall with the product families HYPRO, GROOVE and OIKO the best products for the optimal illumination of sports halls.

## PRODUCT RECOMMENDATIONS







	HYPRO	GROOVE	OIKO COMFORT
RECESSED			
SURFACE			
SUSPENDED			







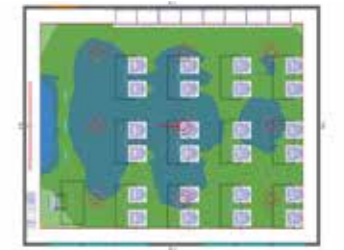
PHOTO: CHRISTIAN FLATSCHER

HYPRO | RICO LINE



Height to luminaire surface 3 m  
 Maintenance factor 0.8  
 Total power 571.2 W  
 Illuminance at blackboard vertical Em 900 lx  
 Uniformity Emin/Em (Uo) 0.77  
 Position 0.75 m

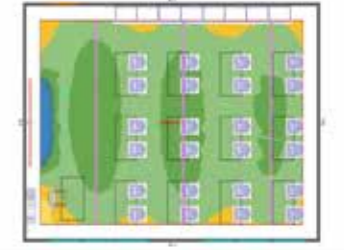
SIGN DIVA



-92 -91 -90 -89 -88 -87 -86 -85 -84 -83 -82 x [m]

Height to luminaire surface 3 m  
 Maintenance factor 0.8  
 Total power 463.2 W  
 Illuminance at blackboard vertical Em 756 lx  
 Uniformity Emin/Em (Uo) 0.71  
 Position 0.75 m

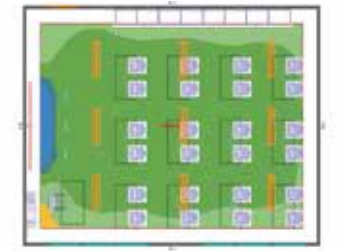
IDAHO 75



-92 -91 -90 -89 -88 -87 -86 -85 -84 -83 -82 x [m]

Height to luminaire surface 3 m  
 Maintenance factor 0.8  
 Total power 431.7 W  
 Illuminance at blackboard vertical Em 851 lx  
 Uniformity Emin/Em (Uo) 0.75  
 Position 0.75 m

HADI M



-92 -91 -90 -89 -88 -87 -86 -85 -84 -83 -82 x [m]

Height to luminaire surface 3 m  
 Maintenance factor 0.8  
 Total power 393.0 W  
 Illuminance at blackboard vertical Em 782 lx  
 Uniformity Emin/Em (Uo) 0.73  
 Position 0.75 m

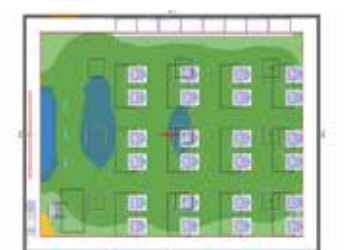
SUPER-G SLIM



-92 -91 -90 -89 -88 -87 -86 -85 -84 -83 -82 x [m]

Height to luminaire surface 3 m  
 Maintenance factor 0.8  
 Total power 542.4 W  
 Illuminance at blackboard vertical Em 850 lx  
 Uniformity Emin/Em (Uo) 0.75  
 Position 0.75 m

PI<sup>2</sup>



-92 -91 -90 -89 -88 -87 -86 -85 -84 -83 -82 x [m]



# YOUR PROJECT OUR SOLUTION



SPECIAL SOLUTIONS

Some project requirements cannot be met even with the greatest customization options for standard products, which is why PROLICHT also offers special solutions. These lights are specially developed by our experts in close consultation with our customers and are built exactly according to their needs to handle difficult scenarios.



LIGHT & ACOUSTICS

In large rooms with a great number of people there is often a high level of noise pollution. In order to keep the learning and working processes as efficient as possible, PROLICHT has developed various acoustic lights in collaboration with acoustic experts IMPACT ACOUSTIC, which ensure a quiet atmosphere and ideal lighting conditions at the same time.



TUNABLE WHITE

The innovative TUNABLE WHITE function covers a color temperature range from 2700K to 6500K. This enables to adjust the lighting of a space exactly to the present time of day or activity.



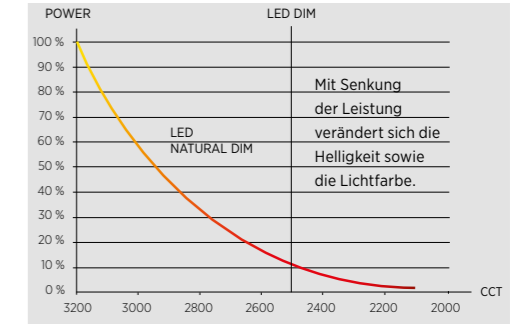
GUIDANCE SYSTEMS

The lighting of hallways, corridors and stairways occupies an indispensable function. Used as a guidance tool, it takes the visitor through the building, structured spaces and directs his attention. Special PROLICHT products are ideal for illuminating a wide variety of routes within the building.



SYSTEM INTEGRATION

Various intelligent control systems enable lighting solutions to be operated easily, whether for a room or an entire building. Not only the operation is simplified, the usage of control systems can also increase energy efficiency and wellbeing. PROLICHT offers a lighting control system that meets the needs and requirements of complex projects.



NATURAL DIM

PROLICHT offers a NATURAL DIM technology in selected products, which changes the color temperature in a reddish or warmer direction. In this way, the effect of classic dimming, which is perceived as very pleasant and comfortable, can also be imitated with efficient LEDs.



I am always fascinated by how many facets and how much power are hidden in each one of our colors. In practical use, they repeatedly show a new, even exciting effect.

— Carina | Product management Headquarter PROLICHT

## COLORS THAT MAKE THE DIFFERENCE

Color creates the basis for creativity – it generates emotions, working its effect on the entire human organism, on the psyche, memory and orientation. The individual colors chosen not only affect the appearance, but also the mood. The emotional power of color fundamentally helps to shape a facility.

Color gives a room a visual and emotional face, and the right choice of color is an essential part of the design process. The slightest color accent can have a huge impact. PROLICHT gives you the opportunity to choose from 25 unique shades for the design of all its luminaires. On many products, it is even possible to have different components in different colors, enabling endless color combinations. From timeless classics, through natural organics to fresh, vibrant colors or rich and opulent shades, our PROLICHT color palette offers an outstanding range of colors. Warm color tones create a cosy, convivial atmosphere, while cooler colors have a more modest and functional effect. Combining them with white dilutes the colors, whereas black increases their intensity.

Working with colors also means working with

materials: each of the 25 PROLICHT colors offers a perfectly optimised surface with a range of gloss levels and effects. Each luminaire is powder-coated in precisely the desired color combination when ordered, all at our high-tech manufacturing facility in the Tyrolean Alps. These flexible design options are intended to inspire and invite you to add accents, emphasise contrasts or create a harmonious whole: PROLICHT opens up new opportunities and gives your creativity free rein.

## MAKE IT YOURS

CONFIGURE ONLINE:  
[PROLICHT.AT/HANGOVER](https://prolicht.at/hangover)



# FRIENDSHIP MAKES A DIFFERENCE



Your projects create spaces in which people come together and that play an important part in our daily lives. Your creativity and vision for the adaptation of these spaces for their requirements, involves both working creatively whilst considering social parameters. You're setting the foundation stones for places with a special value in our hearts.

In PROLICHT you'll find a reliable and steadfast partner, offering you our unique understanding of how to inter-connect design, function and use. The high quality of our products, combined with the lighting expertise of our employees are the fundamentals of our success. Our originality offers us the flexibility needed to help realise the ideas and visions of our partners. We plan with people, for people, and strive to achieve the perfect solution for any concept.

In order to meet the requirements of the variety and diversity of specifications involved in the planning of public spaces, you need a partner that can provide you with a similarly diverse and varied range of products. Whichever size, color or shape – all of our light fittings can be custom-made in shortest time.

**Your partnership with PROLICHT  
makes the difference.**

WALTER NORZ  
Gründer | Soul & Spirit





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Johanna Lorenz, PROLICHT

**TEXT**

Julia Kopp, PROLICHT

**EDITION**

November 2021



**PROLICHT  
MAKES A  
DIFFERENCE**



Don't be like  
the rest of  
them



