



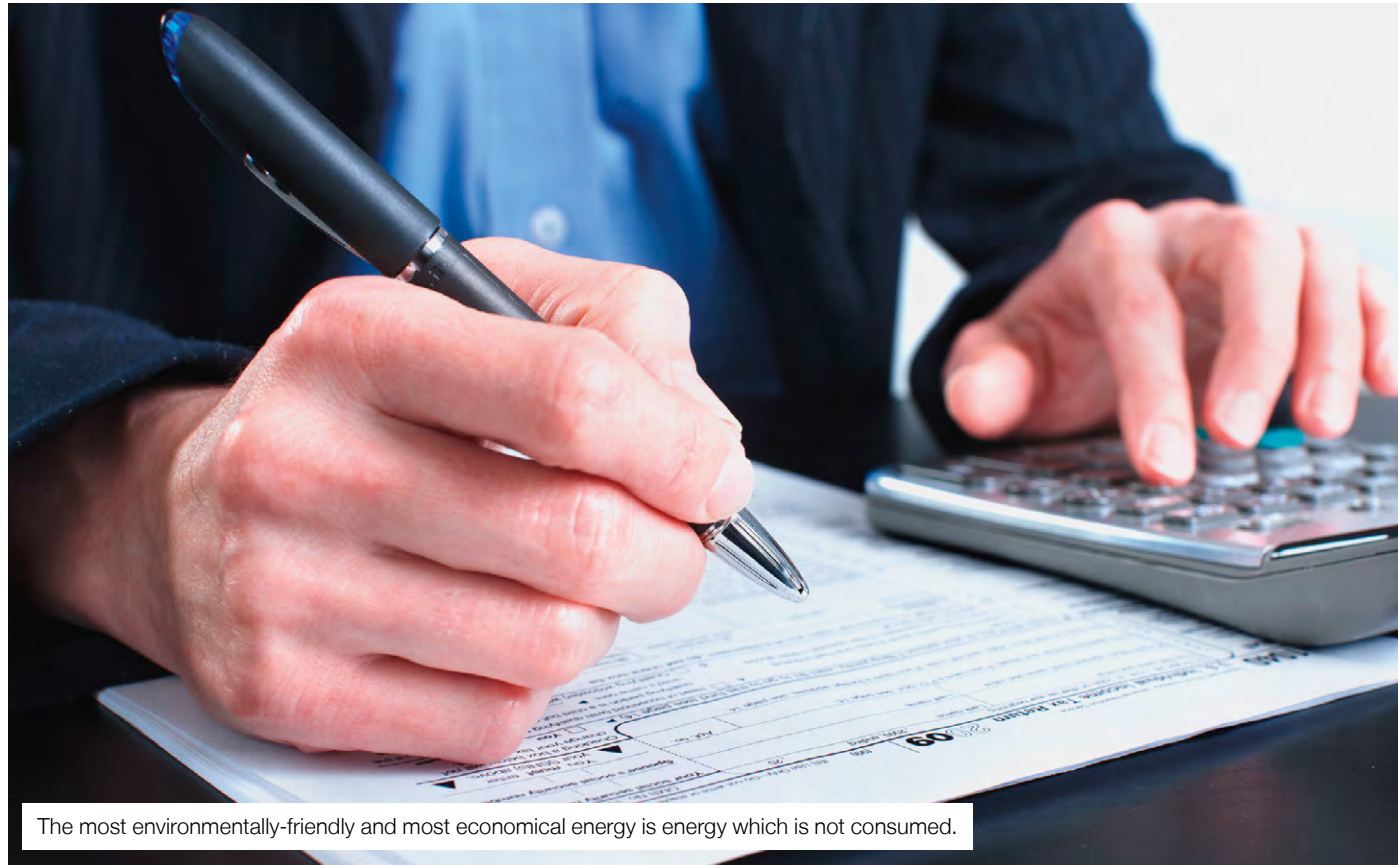
ECO B

## **ECO B** THE BEST LIGHTING SOLUTION FOR HUMANS, THE ENVIRONMENT AND ECONOMIC EFFICIENCY

ECO B is setting new standards for energy-efficient and ergonomic lighting solutions in the office. Due to the impressive efficiency up to 157 lm/W when combined with the application-optimised SENSONIC EDR light control system, resources are conserved and ergonomic workplace lighting is guaranteed at the same time. The patented light control system regulates direct and indirect light extraction in an asynchronous manner, thereby increasing efficiency in application further by up to 35%.

# INSPIRATION

RESOURCES MUST BE USED SUSTAINABLY. THIS APPLIES TO BOTH ECOLOGICAL PRINCIPLES AND TO HUMAN WORK PERFORMANCE AT THE SAME TIME.



The most environmentally-friendly and most economical energy is energy which is not consumed.



Smart technologies help us to conserve resources and provide us with effective support in using them.



A working environment which is optimised for the user promotes wellbeing and performance.

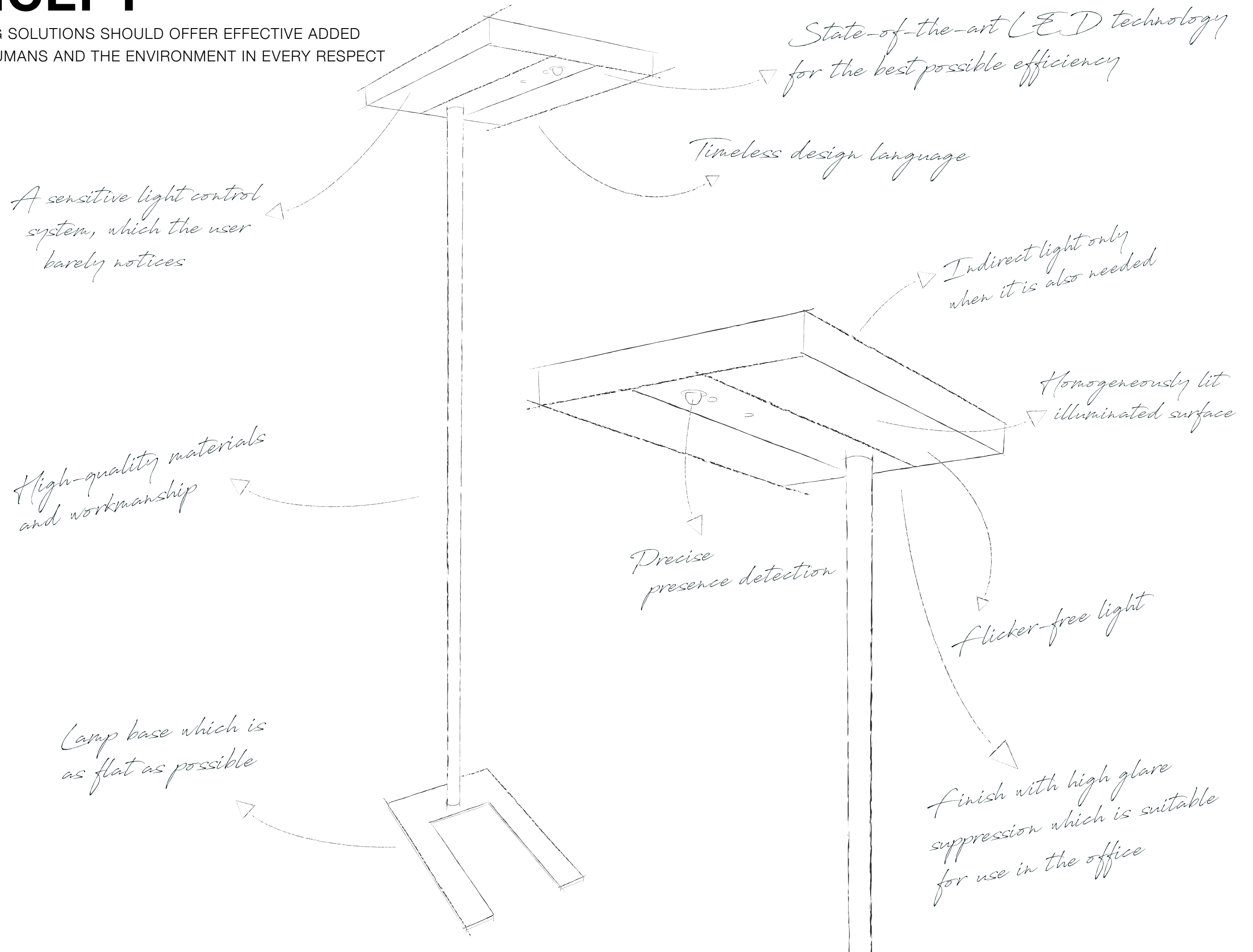


Flickering LEDs create annoying strobe effects and can have an adverse impact on our wellbeing depending on how frequently such effects occur.



# CONCEPT

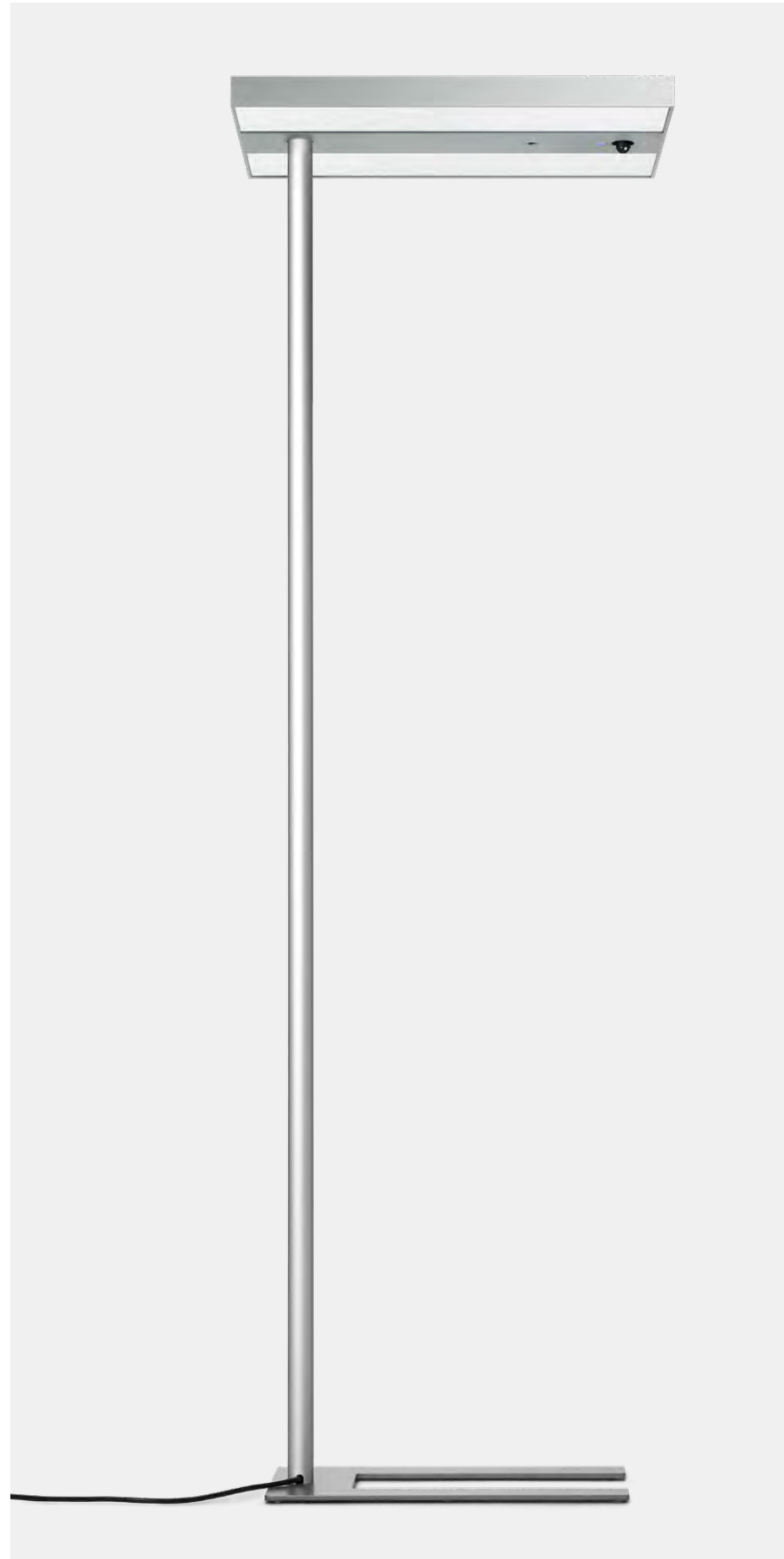
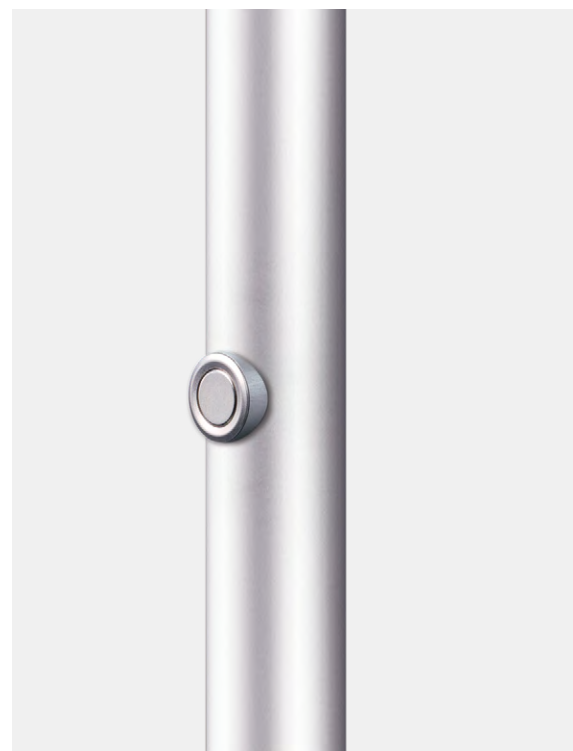
OUR LIGHTING SOLUTIONS SHOULD OFFER EFFECTIVE ADDED VALUE FOR HUMANS AND THE ENVIRONMENT IN EVERY RESPECT





# PRESENTATION

ECO B OFFERS THE PERFECT COMBINATION OF  
AESTHETICS AND ULTRA-MODERN LIGHTING TECHNOLOGY





# APPLICATION

OUR PRODUCTS PROVIDE MAXIMUM COMFORT IN  
THE OFFICE AND IMPROVE THE ENERGY FOOTPRINT

## TAMEDIA NEUBAU WERD

Location of project: Zurich, Switzerland  
Lighting concept: EBP Switzerland AG, Zurich  
Photography: Alexander Gempeler, Berne





## SWISSCOM BUSINESSPARK

Location of project: Ittigen, Switzerland  
Lighting concept: EBP Switzerland AG, Zurich  
Photography: Alexander Gempeler, Berne

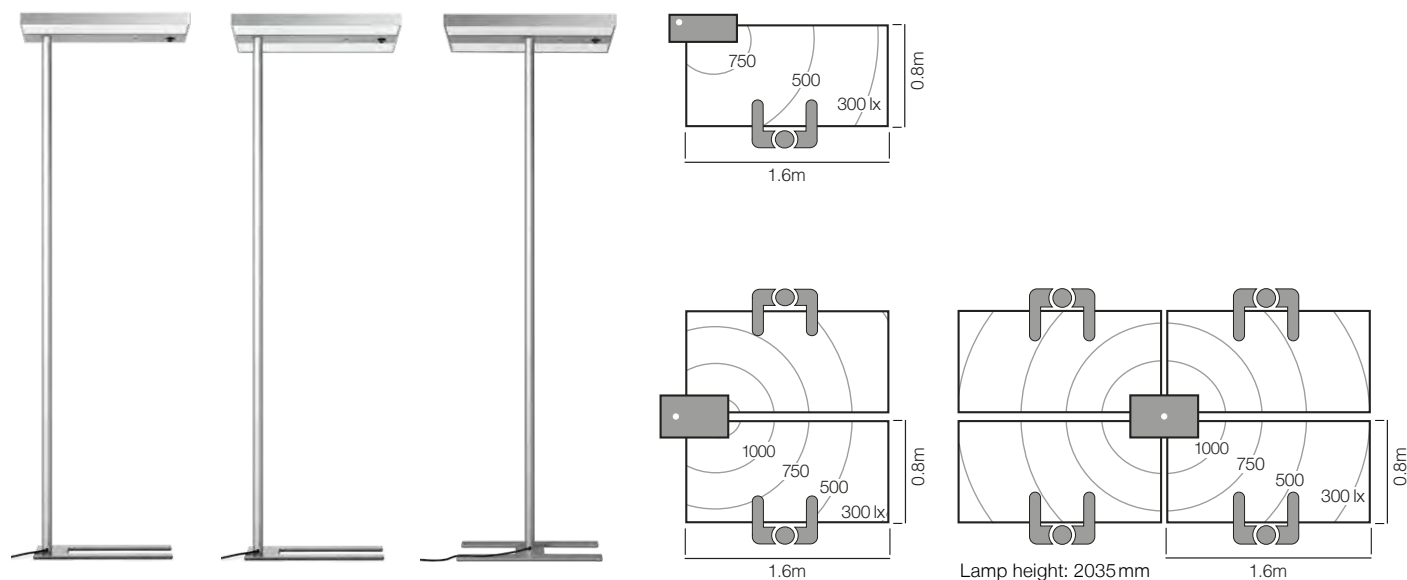




# FEATURES & BENEFITS

## MAXIMUM EFFICIENCY

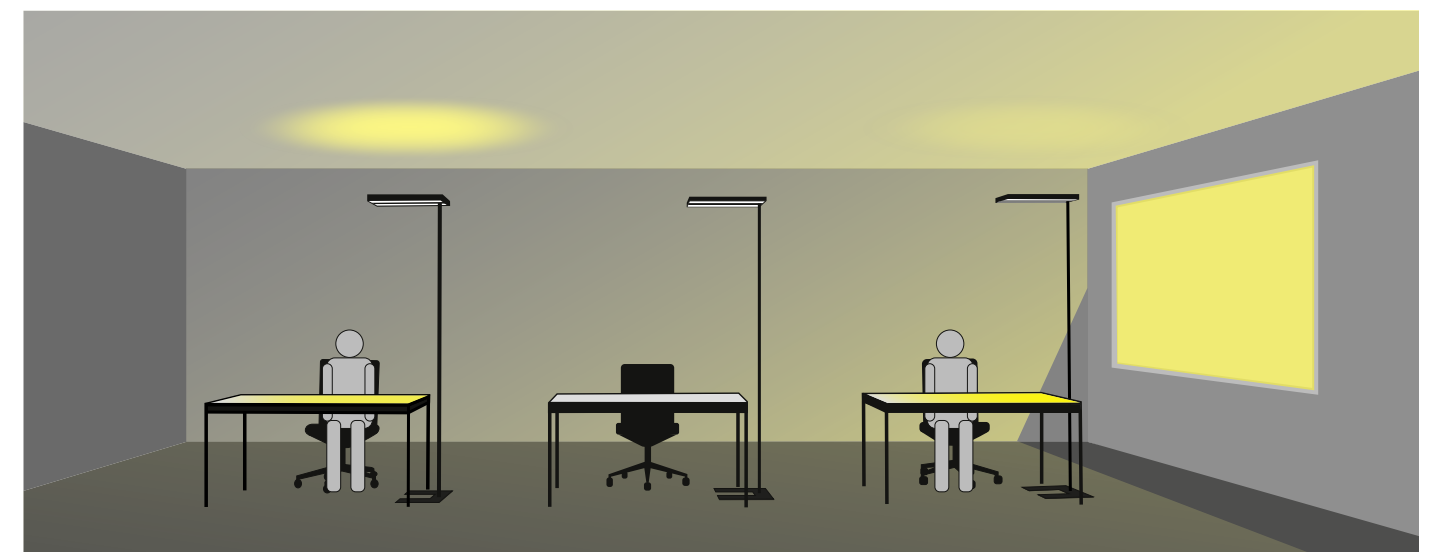
With up to 157lm/W, the MINERGIE-certified ECO B office floor lamp is one of the most energy-efficient workplace lighting products available on the market. With a net luminous flux of over 12950lm, two- or four-person workstations can be illuminated, with the maximum connected wattage required amounting to 82.5W. ECO B is also available as a variant with just one light field for use with single-person desks.



## SENSONIC LIGHT CONTROL SYSTEM

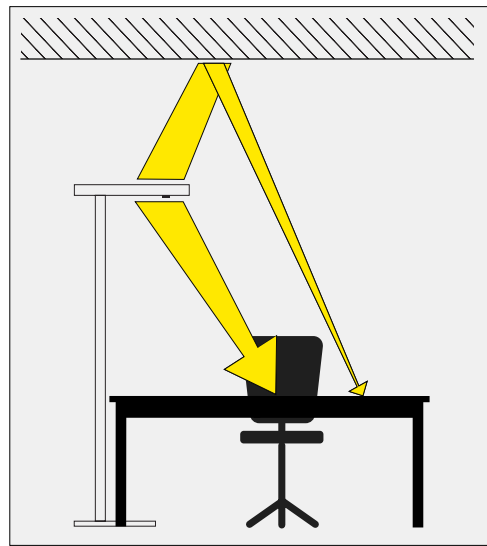
If it is used inefficiently, even the most efficient technology only offers limited added value. This is precisely why the ECO B floor lamp is equipped with the presence and ambient light-dependent SENSONIC control system, which provides optimum light conditions in the room in a fully automatic manner. The required luminous intensity is continuously adjusted to the available ambient light. The adjustable presence sensor detects even the smallest of movements in the detection range, ensuring that the lighting control system is optimised for the user.

In addition to the standard function, the control system can also be operated in semi-automatic mode. In semi-automatic mode, the floor lamp does not switch on autonomously; rather, it has to be deliberately switched on by the user. This prevents the lamp from switching on automatically if someone only enters a room for a short while, and also saves energy.



## EDR (ECONOMICAL DAYLIGHT REGULATION) AN UP TO 35% EXTRA EFFICIENCY INCREASE DUE TO ASYNCHRONOUS REGULATION

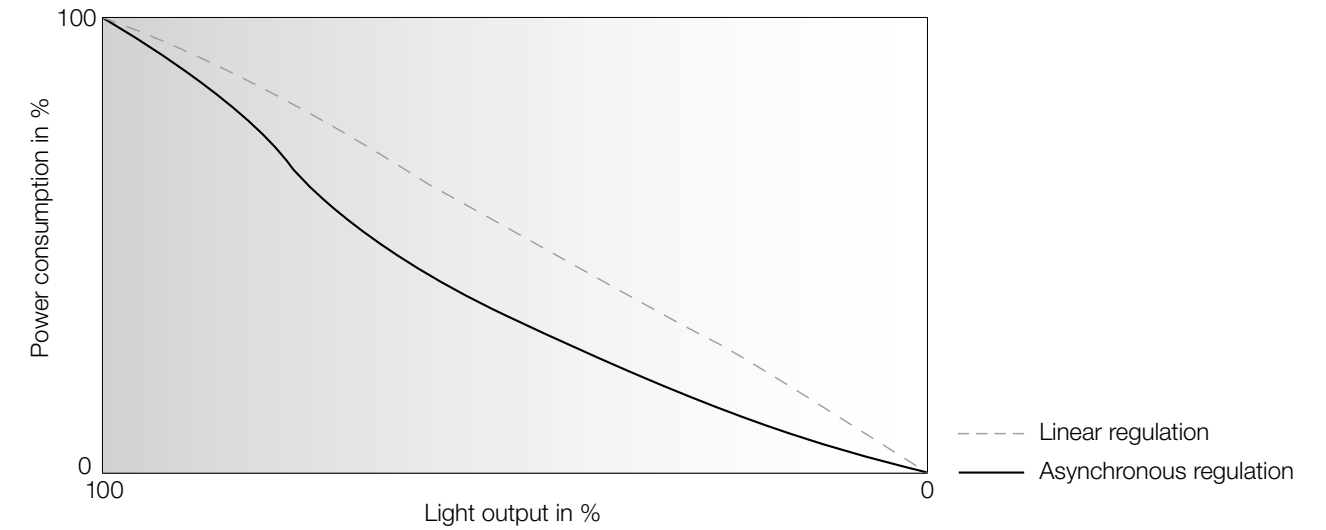
In practice, artificial light is normally used to supplement the available daylight. This is precisely why, most of the time they are used, daylight-regulated floor lamps are only operated at a fraction of their maximum light output. While the indirect light does indeed have a positive impact on the way the room is perceived, at the same time it is extremely inefficient for achieving the illuminance required in the office.



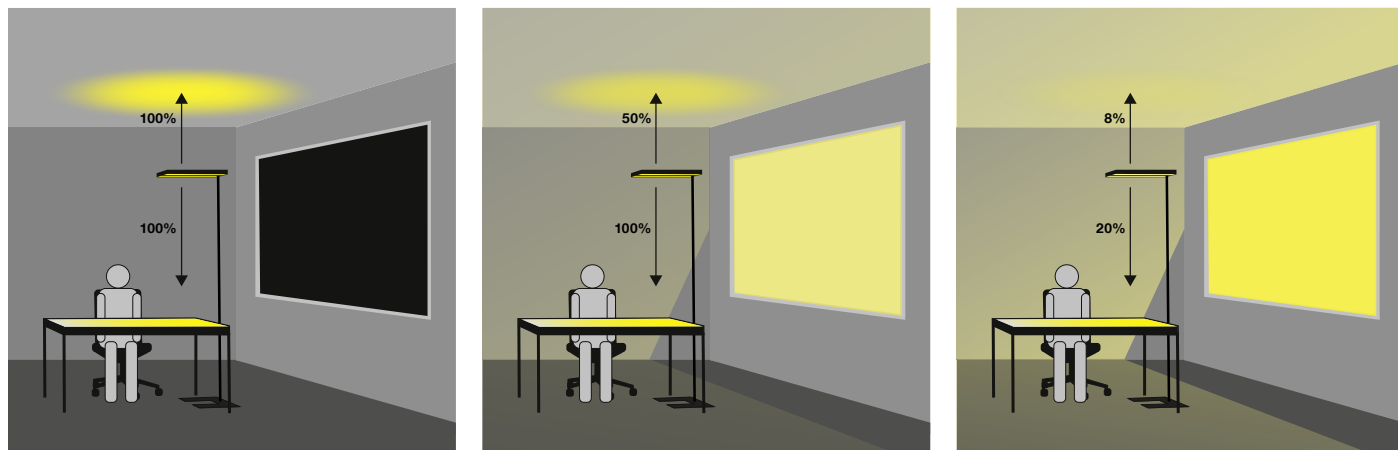
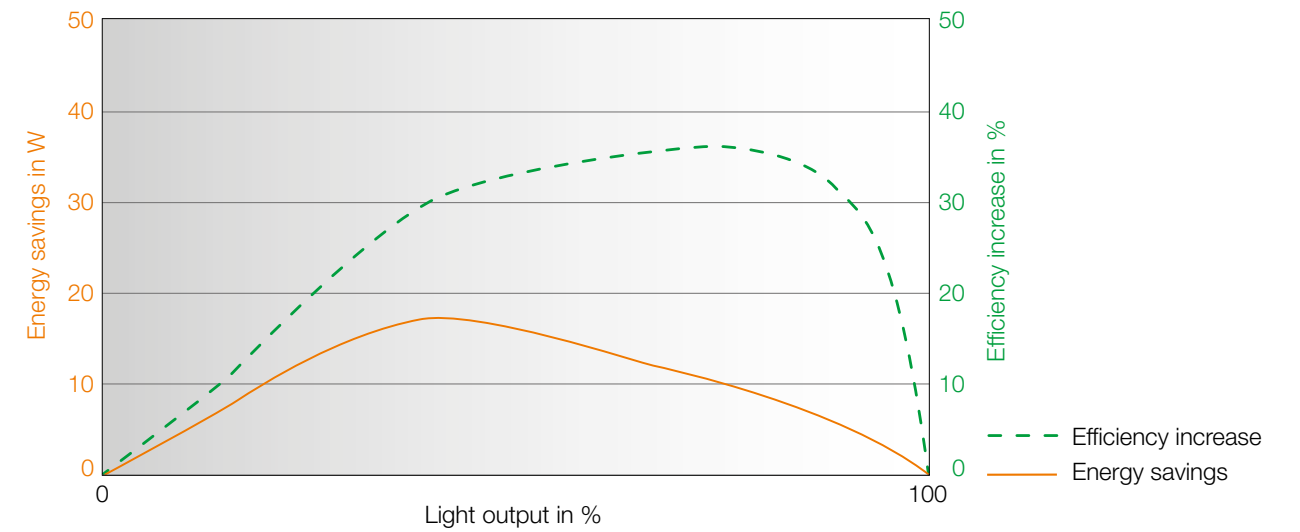
The luminous intensity emitted by a light source decreases proportionally to the covered distance at a factor of  $x^2$ . The ceiling's degree of reflection influences how much light is transferred onto the work surface from the indirect lighting.

As the ambient light increases, EDR decreases the indirect light first of all. The direct light is only regulated afterwards. Due to this asynchronous light regulation, the spatial effect is supported at the same time, achieving up to 35% better efficiency than a light control system with synchronous regulation.

## COMPARISON OF POWER CONSUMPTION: EDR / LINEAR LIGHT REGULATION



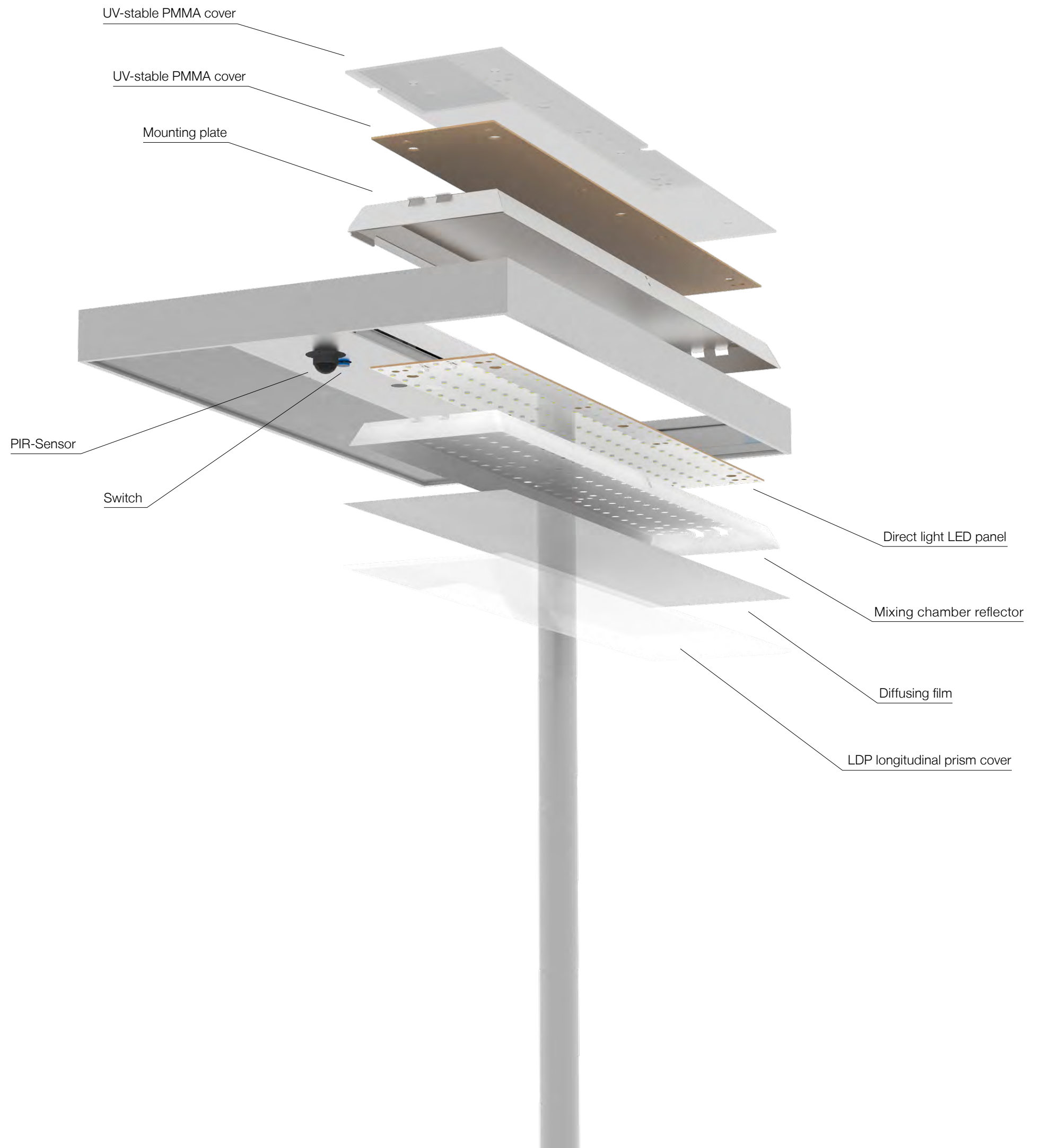
## ENERGY SAVINGS AND EFFICIENCY INCREASE DUE TO THE EDR FUNCTION



## LILO MODE (LIMITED INDIRECT LIGHT OUTPUT)

In room conditions which are not ideal due to poorly reflecting ceilings or tall rooms, for example, the control system can be operated in the Limited Indirect Light Output mode. During this process, the indirect light is limited to max. 7750 lm, while the connected wattage is reduced from 82.5W to max. 67W.\*

\* Values for the two-person and four-person desk lighting solution



## OUTSTANDING TECHNOLOGY FOR MAXIMUM ERGONOMICS

Application-optimised illumination is counted among the most important prerequisites for guaranteeing ergonomic working. This is why the ECO B series of floor lamps was consistently designed to suit the needs of users.

The light is regulated across the entire dimming range from 100% to 0.1% without any flickering, whereby the individual dimming steps are unnoticeable. Due to the combination of a mixing chamber reflector, diffusing film and an LDP longitudinal prism cover in the direct light, homogeneous illumination of the light field and glare suppression which is suited to computer work are achieved at the same time.



## CONTROL SYSTEM OPTIMISED TO THE USER

The best floor lamp is one that the user barely notices is there.

A sudden drop in illuminance is generally perceived as very annoying. If a lighting control system is not optimised to the needs of users, in many cases the luminous intensity is increased manually, so that the desired illuminance does not drop below a certain level. Manual interventions such as these can mean that you miss out on the benefits of daylight control, since your workplace is constantly illuminated.

SENSONIC EDR is programmed so that regulation is barely noticed and, at the same time, the desired illuminance is kept constant.

If the level of ambient light drops suddenly, SENSONIC EDR adjusts the luminous intensity immediately to guarantee the right level of brightness without any noticeable interruption.

If the light only changes slightly, the control system reacts more slowly to the light situation, so the user is less irritated by noticeable changes in brightness in the lamp head's light field.

The control system thus reacts to changes in light conditions in a way similar to most users: **"intervene as little as possible, but intervene immediately if necessary"**.

When needed, a switch on the lamp also allows the user to adjust the light control system manually at any time.





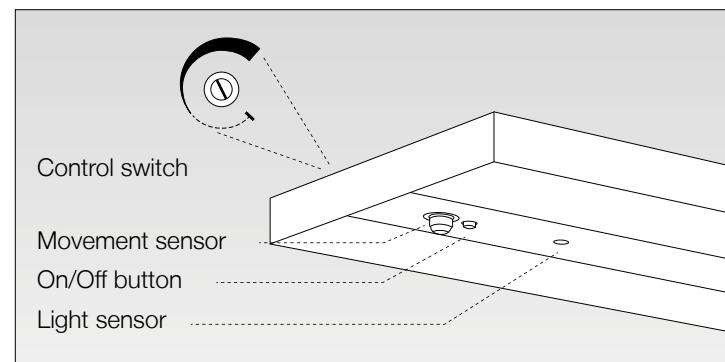


## SIMPLE CONFIGURATION AND OPERATION

To enable simple configuration, for the ECO B and SENSONIC EDR a high degree of importance was attached to uncomplicated and intuitive operation. The lamp can be switched on and off and dimmed using a single switch. As soon as the lamp is dimmed, the electronics system automatically saves the new illuminance as a target value, and then continuously adjusts the luminous intensity to the available ambient light.

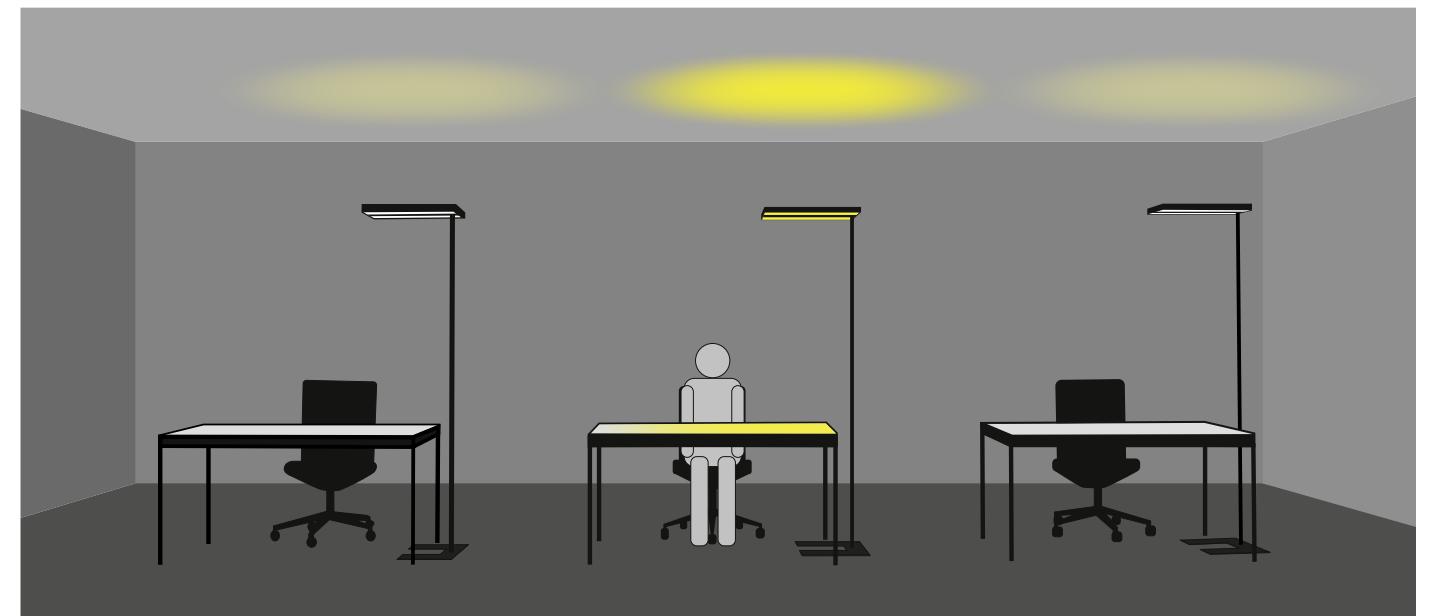
The shut-off time can be set individually between 2 and 30 minutes using a control knob.

To enable simplified alignment of the motion sensor, there is an Area Test mode available to the user which can also be activated using the control knob.



## SPREAD NETWORKED SWARM

Several ECO B lamps can be controlled as a swarm with the optional Sensonic SPREAD add-on module. If only a single desk is occupied in a large room, an unpleasant atmosphere in the room is prevented. All of the presence-detecting lamps regulate their luminous power at the defined target value. Additionally, all of the lamps located within a defined operating radius of the master lamp help to achieve the spatial effect by operating their indirect light at 30% of the maximum light output.



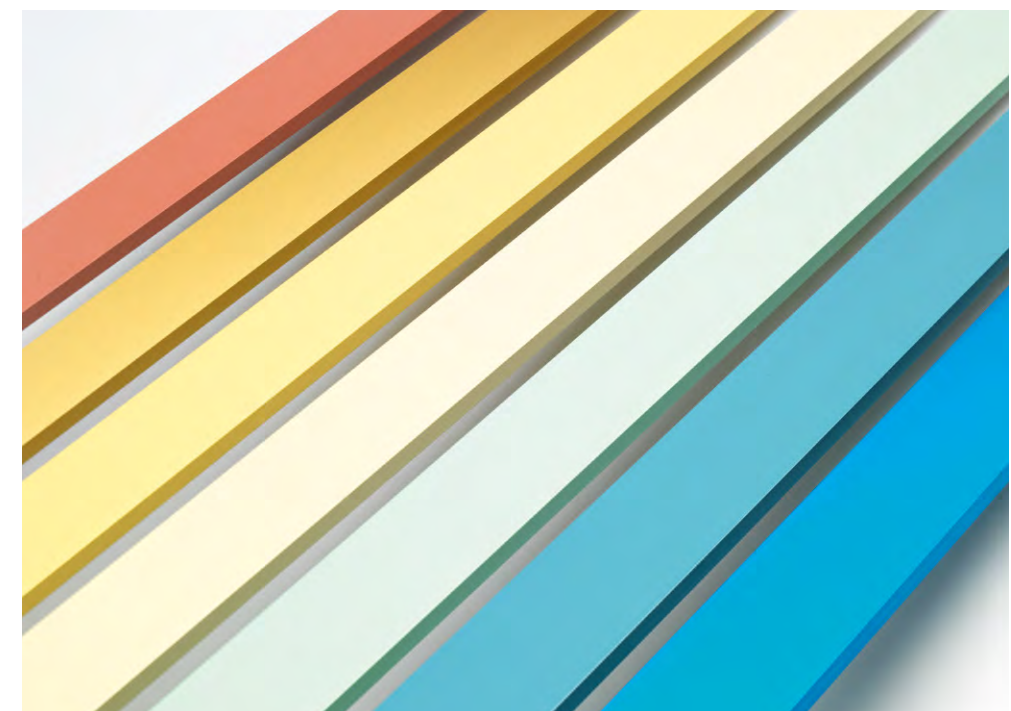
## REMOTE & SPREAD CONTROL APP

All of the SPREAD parameters can be conveniently programmed using the iOS app available for iPhone. When used in combination with the SPREAD module, the app also enables convenient operation of each ECO B lamp using a smartphone



## SIMPLE DESIGN AND HIGH-QUALITY MATERIALS

During the ECO B design process, special emphasis was placed on a simple and timeless design language. Due to its unobtrusive appearance, ECO B can be perfectly integrated into any modern work area. In addition to the standard version made of chemically matted and transparently anodised aluminium, project-specific enamels, coloured anodisation and chrome plating are also possible.

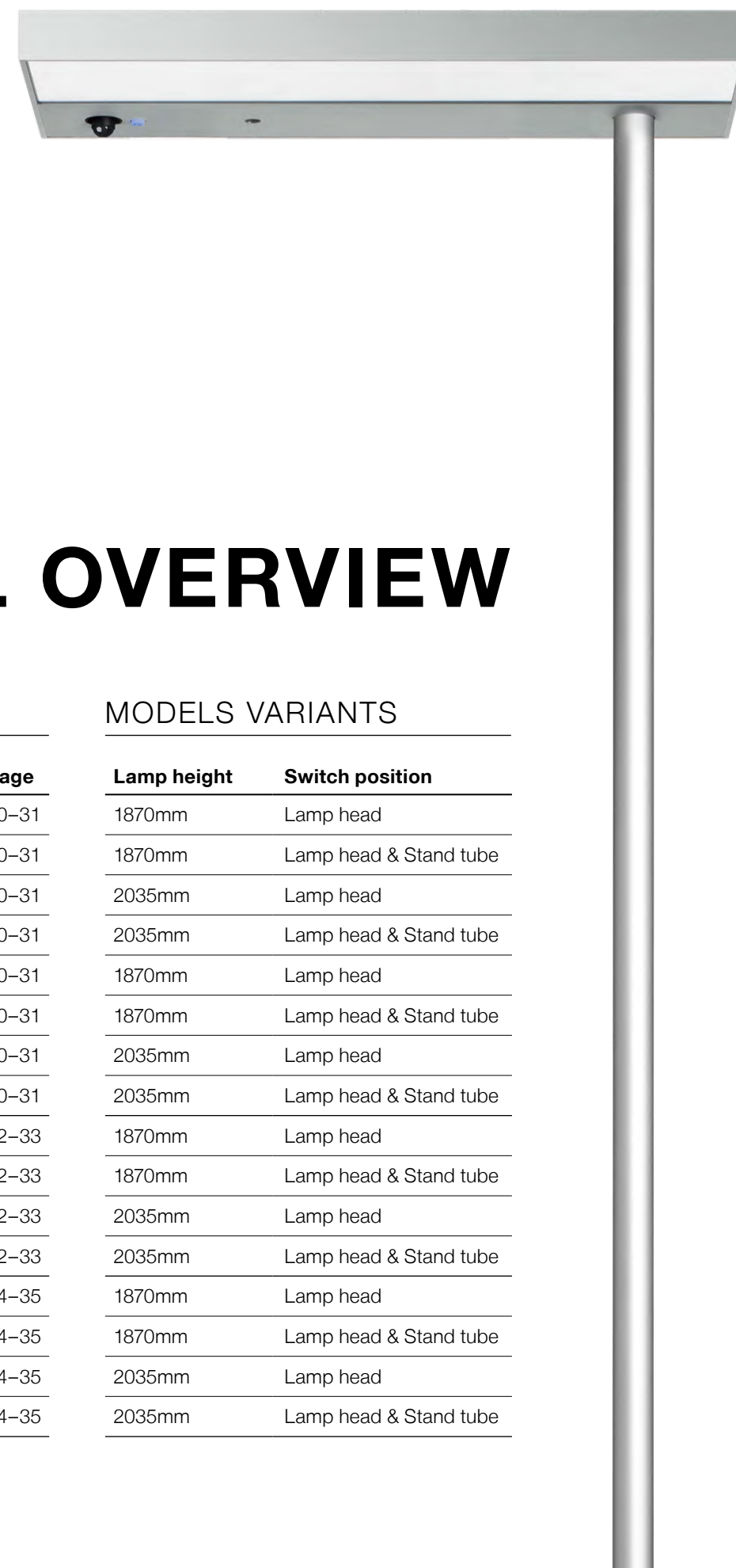
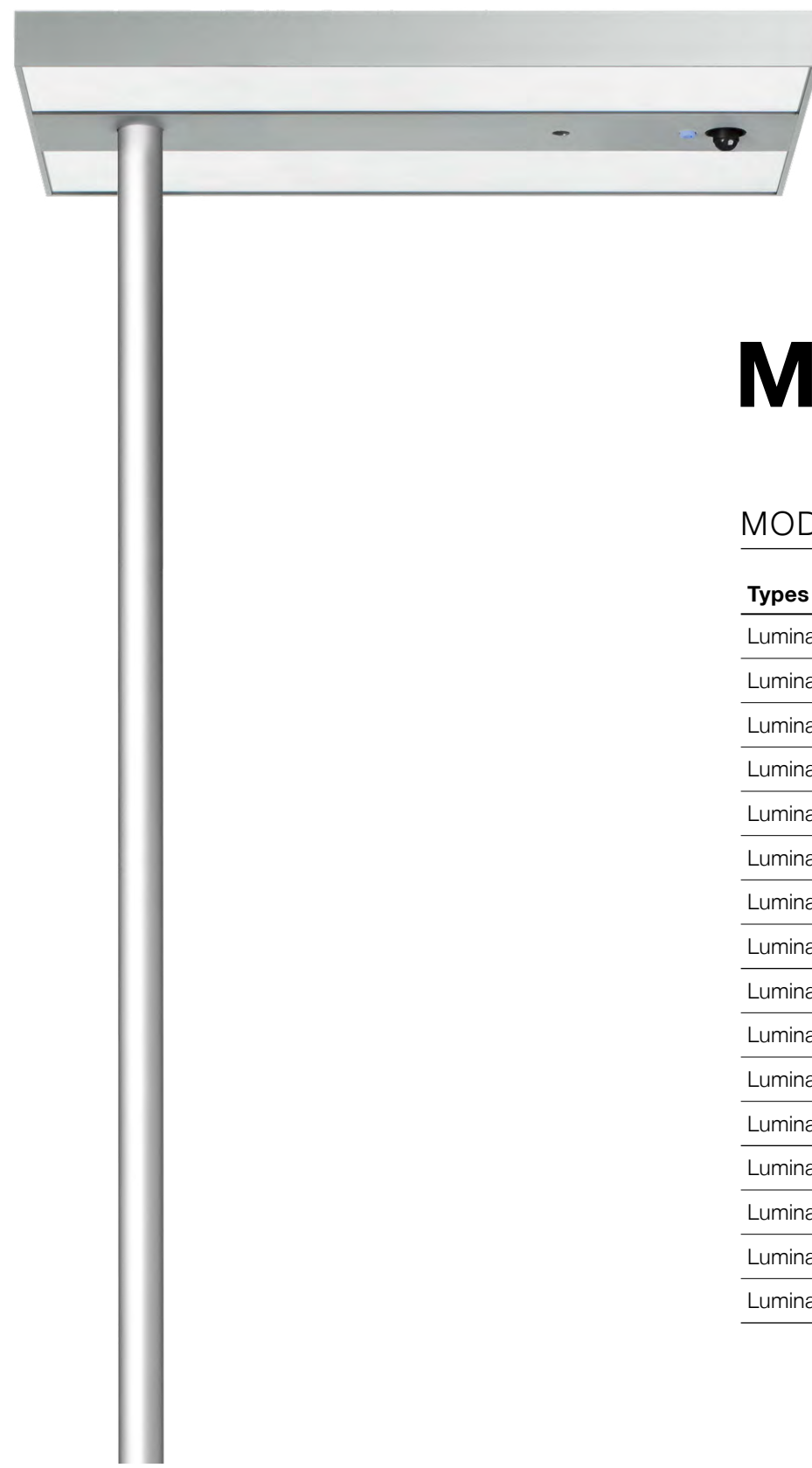






## TABLE ADAPTER

As well as the version with the unobtrusive stand base, ECO B can also be ordered with a universal table adapter and a vertical tube in the suitable length. When used in combination with the ECO B one-person desk lighting solution, ergonomic solutions can therefore also be created for use with height-adjustable tables. What's more, table adapters are also available for the USM-tables. We are also happy to offer special designs upon request.



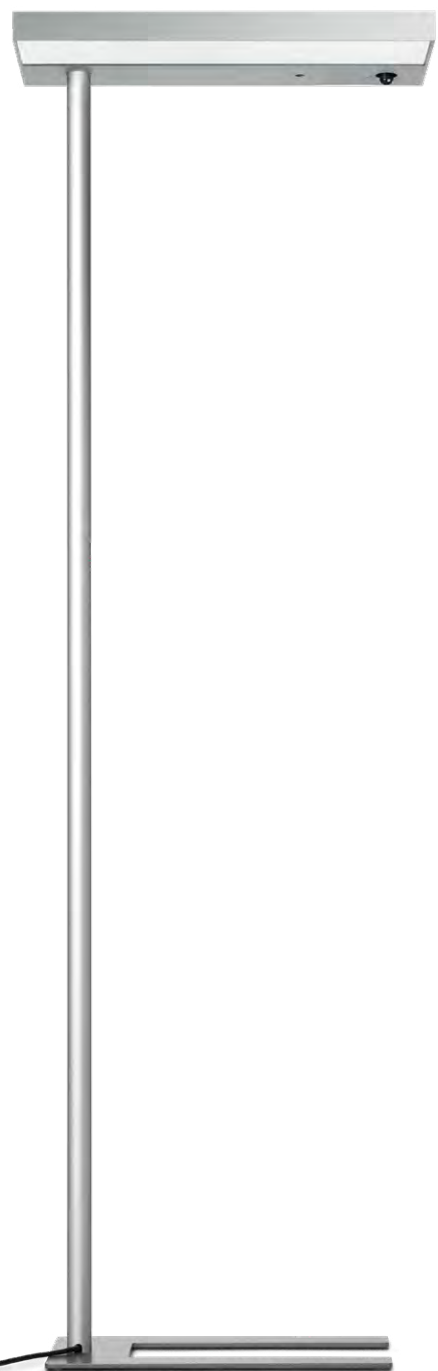
# MODEL OVERVIEW

## MODELS VERSIONS

Types of luminaires	Page
Luminaire for 1 workplace left	30–31
Luminaire for 1 workplace left	30–31
Luminaire for 1 workplace left	30–31
Luminaire for 1 workplace left	30–31
Luminaire for 1 workplace right	30–31
Luminaire for 1 workplace right	30–31
Luminaire for 1 workplace right	30–31
Luminaire for 1 workplace right	30–31
Luminaire for 2 workplaces	32–33
Luminaire for 2 workplaces	32–33
Luminaire for 2 workplaces	32–33
Luminaire for 2 workplaces	32–33
Luminaire for 4 workplaces	34–35
Luminaire for 4 workplaces	34–35
Luminaire for 4 workplaces	34–35
Luminaire for 4 workplaces	34–35

## MODELS VARIANTS

Lamp height	Switch position
1870mm	Lamp head
1870mm	Lamp head & Stand tube
2035mm	Lamp head
2035mm	Lamp head & Stand tube
1870mm	Lamp head
1870mm	Lamp head & Stand tube
2035mm	Lamp head
2035mm	Lamp head & Stand tube
1870mm	Lamp head
1870mm	Lamp head & Stand tube
2035mm	Lamp head
2035mm	Lamp head & Stand tube



# ECO B LUMINAIRE FOR 1 WORKPLACE

Lamp head with incline levelling and aluminium vertical tube measuring 34 mm in diameter, chemically matted and transparently anodised. Form-locked LDP inlays with diffusing film for high glare suppression and homogeneous light distribution on the finish. Protection of the indirect light LED panels using a transparent and UV-stable PMMA cover. Halogen-free internal wiring. Stand base made of silver steel, powder-coated with 6 base pads. Supply line black, length=2700mm with a lamp height of 2035mm, or 2850mm with a lamp height of 1870mm. Cable outlet laterally above the base plate. Dimming range from 100% to approx. 0.1%. Flicker-free and silent analogue dimming in a range from 100% to 5%. Visually unnoticeable PWM dimming from 5% at approx. 1500Hz; can also be deactivated upon request. Presence-dependent Sensonic EDR daylight control with asynchronous direct/indirect light regulation.

## Sensonic EDR

1 LED switch for light control. 1 control knob for the shut-off time (2–30 min.) on the top; can be used as a switch for the area test (presence detector alignment) at the same time. Adjustable presence detector. Ambient light-dependent, asynchronous light regulation with up to 35% energy savings compared to synchronous light regulation. Default setting Auto On/Auto Off. On/Auto Off can be manually adjusted for additional energy savings.

LILO (Limited Indirect Light Output) mode to reduce the indirect light to 75% (7070lm) can be adjusted at a 8345lm lamp luminous flux and a reduced lamp connected wattage of 59W.

## Optional Sensonic SPREAD upgrade kit

Can be classified into up to four lamp groups, which communicate wirelessly and thus ensure a pleasant lighting situation with a fluid transition from bright to dark. Direct control via the iPhone app. (See the operating instructions for a detailed description.)



## DESIGNS

Item no.	Height	Switch	P	CRI	Nd	Ni	Φ Ng	ε Ng
L1X 25Y5.C	1870mm	Lamp head	75.1 W	≥80 (84)	1272lm (12%)	9326lm (88%)	10598lm (100%)	141 lm/W
L1X 26Y5.C	1870mm	Lamp head & Stand tube	75.1 W	≥80 (84)	1272lm (12%)	9326lm (88%)	10598lm (100%)	141 lm/W
L1X 65Y5.C	2035mm	Lamp head	75.1 W	≥80 (84)	1272lm (12%)	9326lm (88%)	10598lm (100%)	141 lm/W
L1X 66Y5.C	2035mm	Lamp head & Stand tube	75.1 W	≥80 (84)	1272lm (12%)	9326lm (88%)	10598lm (100%)	141 lm/W

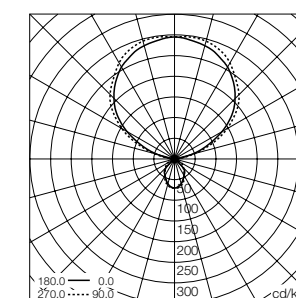
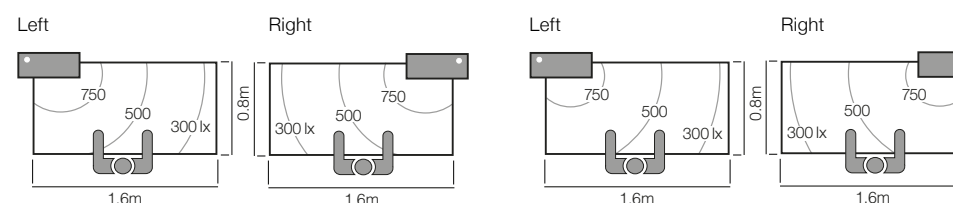
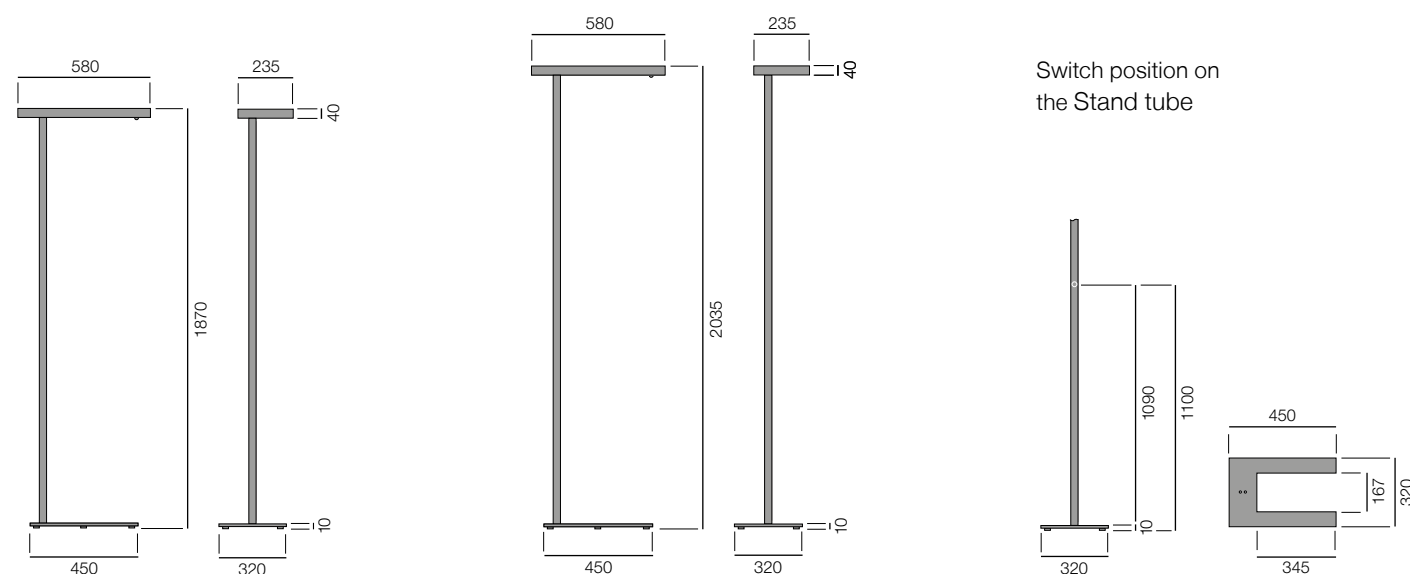
## DESIGN OPTIONS

### Installation type X

Left	L*4 ***.C	Floor Luminaire left
Right	L*5 ***.C	Floor Luminaire right

### Connector type Y

Schuko	L** **2*.C
T12	L** **1*.C







# ECO B LUMINAIRE FOR 2 WORKPLACES

Lamp head with incline levelling and aluminium vertical tube measuring 34 mm in diameter, chemically matted and transparently anodised. Form-locked LDP inlays with diffusing film for high glare suppression and homogeneous light distribution on the finish. Protection of the indirect light LED panels using a transparent and UV-stable PMMA cover. Halogen-free internal wiring. Stand base made of silver steel, powder-coated with 6 base pads. Supply line black, length=2700mm with a lamp height of 2035mm, or 2850mm with a lamp height of 1870mm. Cable outlet laterally above the base plate. Dimming range from 100% to approx. 0.1%. Flicker-free and silent analogue dimming in a range from 100% to 5%. Visually unnoticeable PWM dimming from 5% at approx. 1500Hz; can also be deactivated upon request. Presence-dependent Sensonic EDR daylight control with asynchronous direct/indirect light regulation.

## Sensonic EDR

1 LED switch for light control. 1 control knob for the shut-off time (2–30 min.) on the top; can be used as a switch for the area test (presence detector alignment) at the same time. Adjustable presence detector. Ambient light-dependent, asynchronous light regulation with up to 35% energy savings compared to synchronous light regulation. Default setting Auto On/Auto Off. On/Auto Off can be manually adjusted for additional energy savings.

LILO (Limited Indirect Light Output) mode to reduce the indirect light to 75% (7750lm) can be adjusted at a 10390lm lamp luminous flux and a reduced lamp connected wattage of 67 W.

## Optional Sensonic SPREAD upgrade kit

Can be classified into up to four lamp groups, which communicate wirelessly and thus ensure a pleasant lighting situation with a fluid transition from bright to dark. Direct control via the iPhone app. (See the operating instructions for a detailed description.)



## DESIGNS

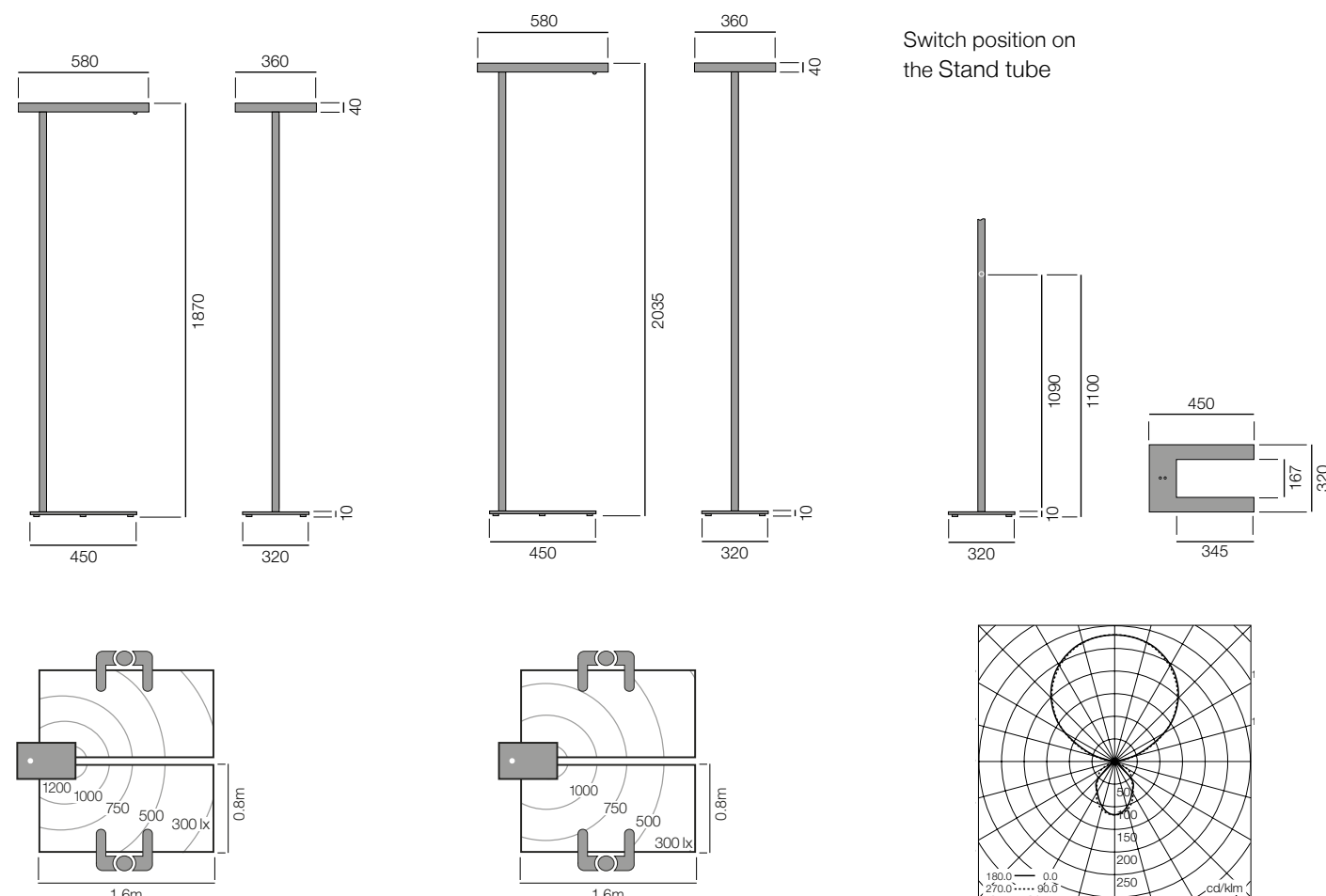
Item no.	Height	Switch	P	CRI	Nd	Ni	Φ Ng	ε Ng
L22 25Y5.C	1870mm	Lamp head	82.5 W	≥80 (84)	2640lm (20%)	10310lm (80%)	12950lm (100%)	157 lm/W
L22 26Y5.C	1870mm	Lamp head & Stand tube	82.5 W	≥80 (84)	2640lm (20%)	10310lm (80%)	12950lm (100%)	157 lm/W
L22 65Y5.C	2035mm	Lamp head	82.5 W	≥80 (84)	2640lm (20%)	10310lm (80%)	12950lm (100%)	157 lm/W
L22 66Y5.C	2035mm	Lamp head & Stand tube	82.5 W	≥80 (84)	2640lm (20%)	10310lm (80%)	12950lm (100%)	157 lm/W

## DESIGN OPTIONS

### Connector type Y

Schuko L\*\* \*\*2\*.C

T12 L\*\* \*\*1\*.C





# ECO B LUMINAIRE FOR 4 WORKPLACES

Lamp head with incline levelling and aluminium vertical tube measuring 34 mm in diameter, chemically matted and transparently anodised. Form-locked LDP inlays with diffusing film for high glare suppression and homogeneous light distribution on the finish. Protection of the indirect light LED panels using a transparent and UV-stable PMMA cover. Halogen-free internal wiring. Stand base made of silver steel, powder-coated with 6 base pads. Supply line black, length=2700mm with a lamp height of 2035mm, or 2850mm with a lamp height of 1870mm. Cable outlet laterally above the base plate. Dimming range from 100% to approx. 0.1%. Flicker-free and silent analogue dimming in a range from 100% to 5%. Visually unnoticeable PWM dimming from 5% at approx. 1500Hz; can also be deactivated upon request. Presence-dependent Sensonic EDR daylight control with asynchronous direct/indirect light regulation.

## Sensonic EDR

1 LED switch for light control. 1 control knob for the shut-off time (2–30 min.) on the top; can be used as a switch for the area test (presence detector alignment) at the same time. Adjustable presence detector. Ambient light-dependent, asynchronous light regulation with up to 35% energy savings compared to synchronous light regulation. Default setting Auto On/Auto Off. On/Auto Off can be manually adjusted for additional energy savings.

LILO (Limited Indirect Light Output) mode to reduce the indirect light to 75% (7750lm) can be adjusted at a 10390lm lamp luminous flux and a reduced lamp connected wattage of 67 W.

## Optional Sensonic SPREAD upgrade kit

Can be classified into up to four lamp groups, which communicate wirelessly and thus ensure a pleasant lighting situation with a fluid transition from bright to dark. Direct control via the iPhone app. (See the operating instructions for a detailed description.)



## DESIGNS

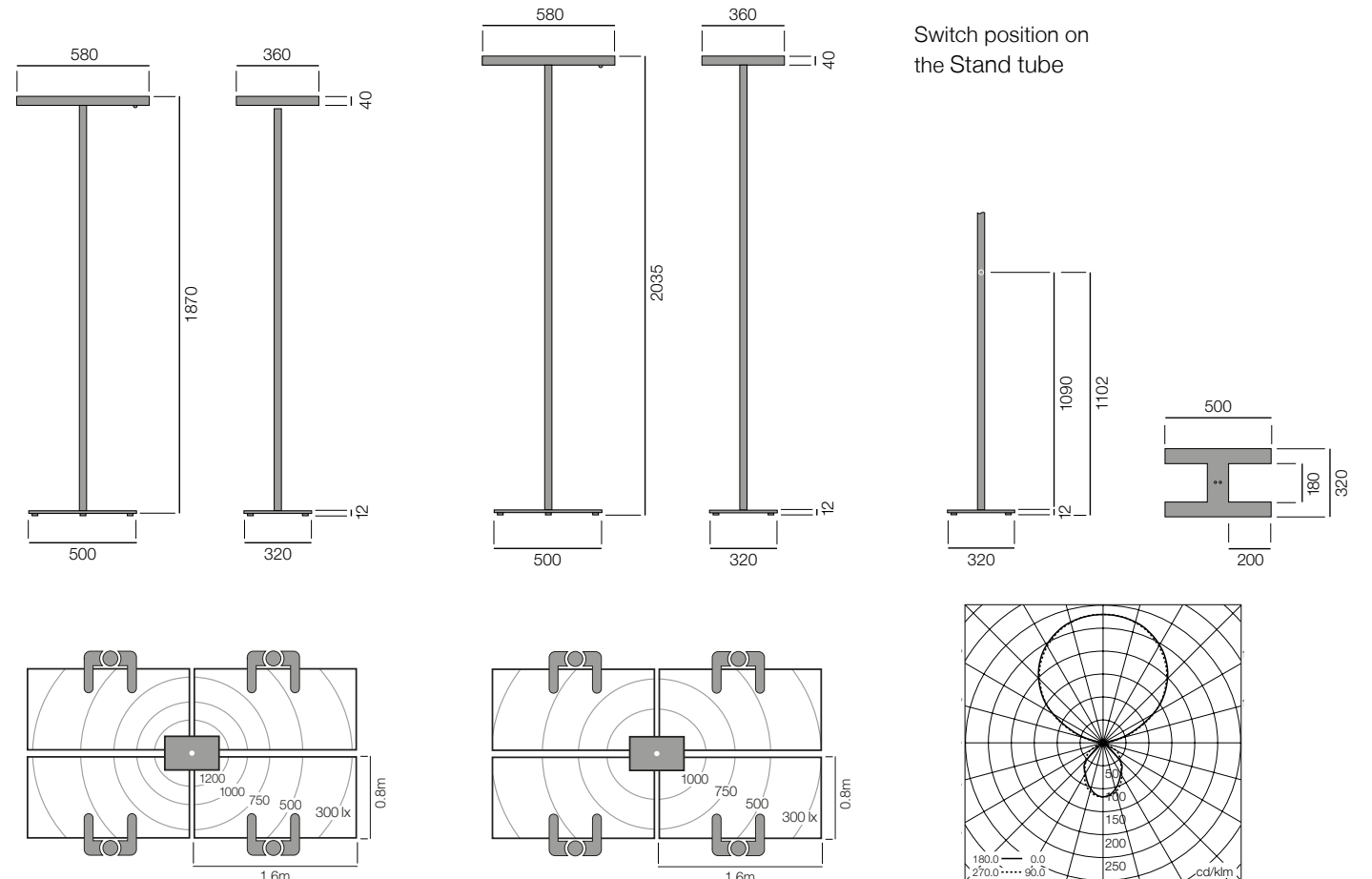
Item no.	Height	Switch	P	CRI	Nd	Ni	Φ Ng	ε Ng
L41 25Y5.C	1870mm	Lamp head	82.5 W	≥80 (84)	2640lm (20%)	10310lm (80%)	12950lm (100%)	157 lm/W
L41 26Y5.C	1870mm	Lamp head & Stand tube	82.5 W	≥80 (84)	2640lm (20%)	10310lm (80%)	12950lm (100%)	157 lm/W
L41 65Y5.C	2035mm	Lamp head	82.5 W	≥80 (84)	2640lm (20%)	10310lm (80%)	12950lm (100%)	157 lm/W
L41 66Y5.C	2035mm	Lamp head & Stand tube	82.5 W	≥80 (84)	2640lm (20%)	10310lm (80%)	12950lm (100%)	157 lm/W

## DESIGN OPTIONS

### Connector type Y

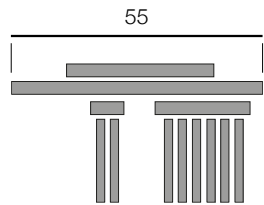
Schuko L\*\* \*\*2\*.C

T12 L\*\* \*\*1\*.C



Switch position on the Stand tube

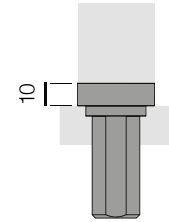
# ACCESSORIES



## SPREAD EXTENSION MODULE

For SENSONIC EDR incl. unit cover with window

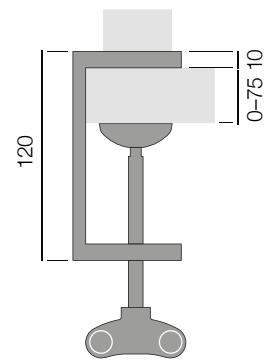
L95 9001



## TABLE ADAPTER USM

Anodised in black. Matching stand tube available on request.

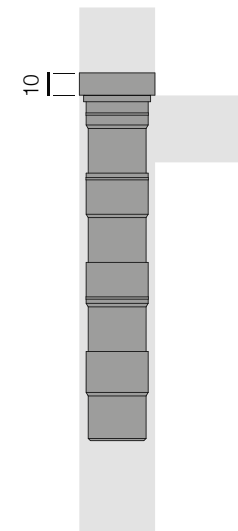
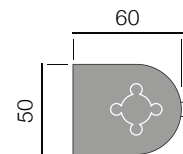
L91 0520



## UNIVERSAL TABLE ADAPTER

Aluminium transparently anodised. Clamping area of 0–75 mm. Matching stand tube available on request.

L91 0110



## USM HALLER TABLE ADAPTER

high polish, matching stand tube available on request.

L91 0630

# GENERAL INFORMATION

## GENERAL INFORMATION






We reserve the right to make technical and design changes to our products owing to new technical developments. The images and descriptions reflect the products as they were when this luminaire brochure went to print. Errors are reserved. We would be happy to provide you with current documents upon request.

The colours and surfaces of our products are supplied in accordance with the product descriptions. Unless otherwise mentioned, these colours are as follows:

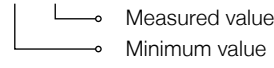
White	(similar to RAL 9016)
Black	(similar to RAL 9005)
Silver	(similar to RAL 9006)

All dimensions are given in millimetres. Where available, the photometric data can be found in the corresponding light distribution curves.

## SYMBOLS AND ACRONYMS

-  Products comply with European Union Directives
- IP20** Protection against the ingress of solid foreign bodies measuring more than 12 mm in diameter
-  Only for use indoors
-  Luminaires in protective class I – with protective earth terminal
-  Halogen free internal wiring
- LED** LED lamps can be replaced at the factory
- SENSONIC EDR** Asynchronous control system developed in house
- 0 Hz SAFETY** DC operation possible, product suitable for emergency power (see operating device label)
- EN12464** Meets the requirements for office workspaces in accordance with the relevant standard
-  Certified in accordance with the current Minergie certification standards
- MINERGIE PENDING** Not certified, but complies with the current Minergie requirements

## LIGHTING TECHNOLOGY

- $\Phi$  Ng [lm] Total net luminous flux
- CCT Colour temperature (in Kelvin)
- CRI Colour rendering index  
Example:  
≥ 80 (84)  

- UGR glare rating (unified glare rating)  
X=4 H, Y=8 H, S=0.25 H  
Reflectances 70/50/20  
Reference value in accordance with EN12464-1
- ISOLUX Room dimensions (LxBxH) 6x6x2.5 m  
Reflectances 70/50/20  
Maintenance factor 0.8

## LEGAL NOTICE

Alteme Licht AG  
Gysulastrasse 21  
CH-5000 Aarau

Issue: July 2018



