ESYLUX

PRANA+ IS ESY, BECAUSE IT INTELLIGENTLY COMBINES DESIGN AND LIGHT

INTELLIGENT LIGHTING AND AUTOMATION SOLUTIONS FOR OFFICES

LIGHTING AND DESIGN
IN PERFECTION

PRANA+ PENDULUM LIGHT and PRANA+ OFFICE FLOOR LIGHT

THE PRANA+ SERIES. A COMPLETE CONCEPT FOR THE SMART OFFICE

Statistically, we spend almost 20 years of our lives at work. It is here where the skills, ideas and values that define our lives and take us forward are created. In short: This is where the future is created. But what does the workplace of the future look like?

Welcome to the smart office! In a time where everything always has to be faster, we constantly have to be more flexible and more efficient in our work, and provide greater performance. It is therefore all the more important that our environment at work also keeps pace with these demands. One response to the challenges of the future is called "smart lighting": New technologies that create the perfect lighting atmosphere in each situation. Powered by the state-of-the-art automation technology, a new form of intelligent lighting is thereby created that adapts itself perfectly to the users and their activities. Such lighting ensures that we can work more productively and feel more comfortable while doing so – and even boasts longterm benefits with regard to energy efficiency. It is time to see the workplace in a new light: Transform yours into a smart office with the PRANA+ series – made in Germany!

PRANA+

MADE IN GERMANY

reddot award 2016
winner lighting design

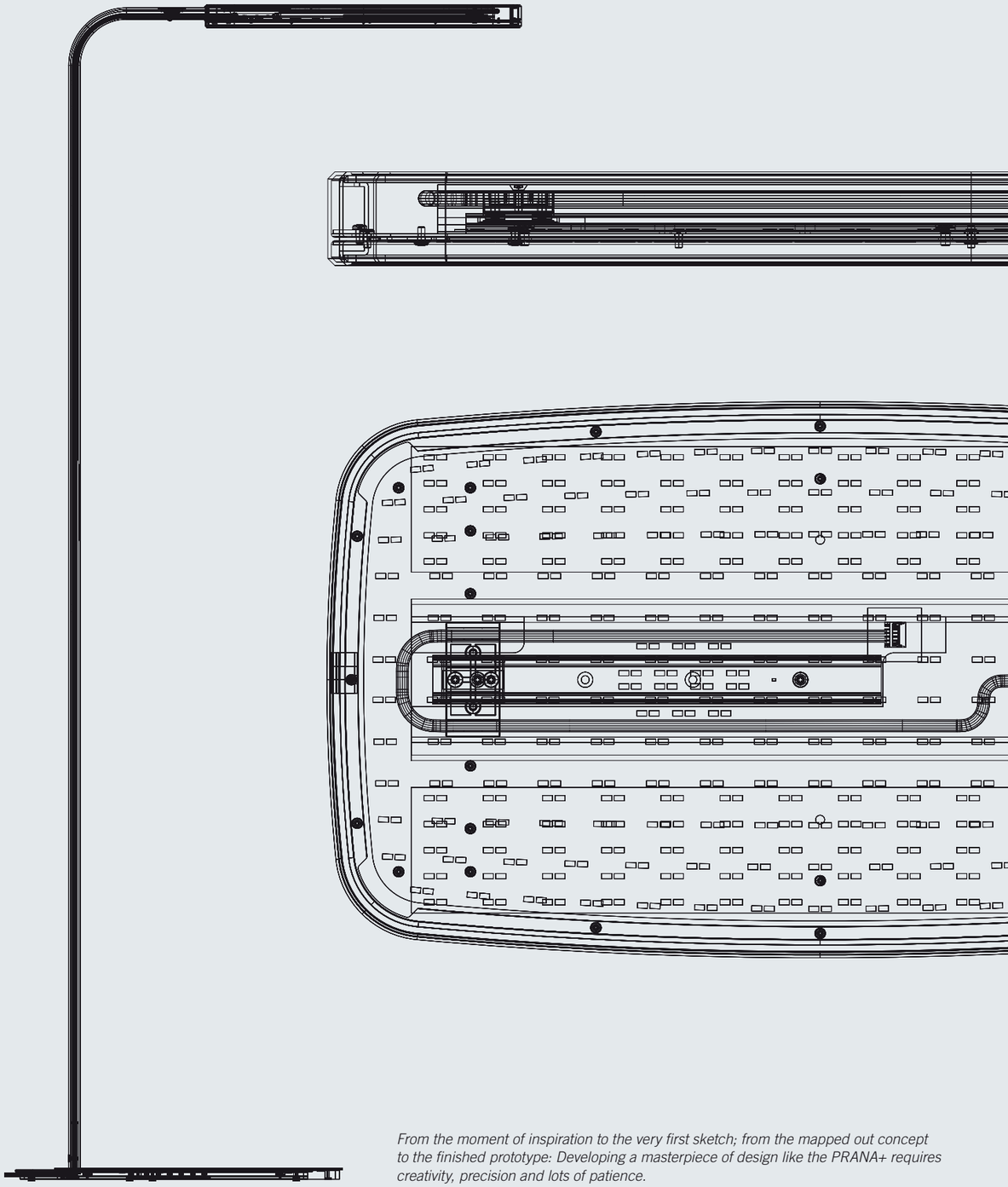
DESIGN CONCEPT

INNOVATION IN EVERY DETAIL

A SHAPE THAT PERFECTLY WORKS

Designed and developed by the renowned Hamburg-based design agency, Peter Schmidt, Belliero & Zandée, the PRANA+ design series focuses on natural structures with clear, elegant lines and high-quality materials to create a design language that lends a suitable style to the intelligent functionality and the pure, pleasant lighting effect of the light. This approach has resulted in a timeless, eye-catching look that at the same time is quite inconspicuous and that integrates harmoniously into any modern style of office architecture.

▼ *»We have to simplify our creations, take them back to their roots and subject them to structures, just like nature does.«*



From the moment of inspiration to the very first sketch; from the mapped out concept to the finished prototype: Developing a masterpiece of design like the PRANA+ requires creativity, precision and lots of patience.

FUNCTIONAL DESIGN
PRANA+ OFFICE FLOOR LIGHT

ALL ABOUT LIGHT, FROM TOP TO BOTTOM

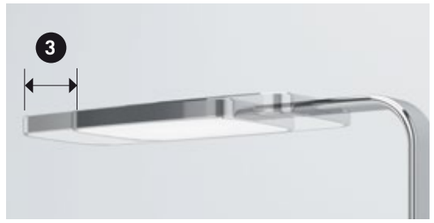
As well as serving the aesthetics of an object, the design elements must also stand the test of practical application, via maximum flexibility that adapts to the requirements of users and surroundings in any situation. Design is about uniting beauty and functionality.

To make the PRANA+ Office Floor Light compatible with all conceivable desk models, the base was kept extremely flat. In addition, a patented extendable versions was developed that allows the floor light to be used with desks that have closed-off, floor-level side panels. The base and desk then form a seamless unit that highlights the harmonious functionality of the light.

As desks can also vary in worktop length, the head and stem of the floor light are designed for linear movement and assembled accordingly. This allows the user to slide the head up to 18 cm along the horizontal axis – enough flexibility for just the right light at every desk.

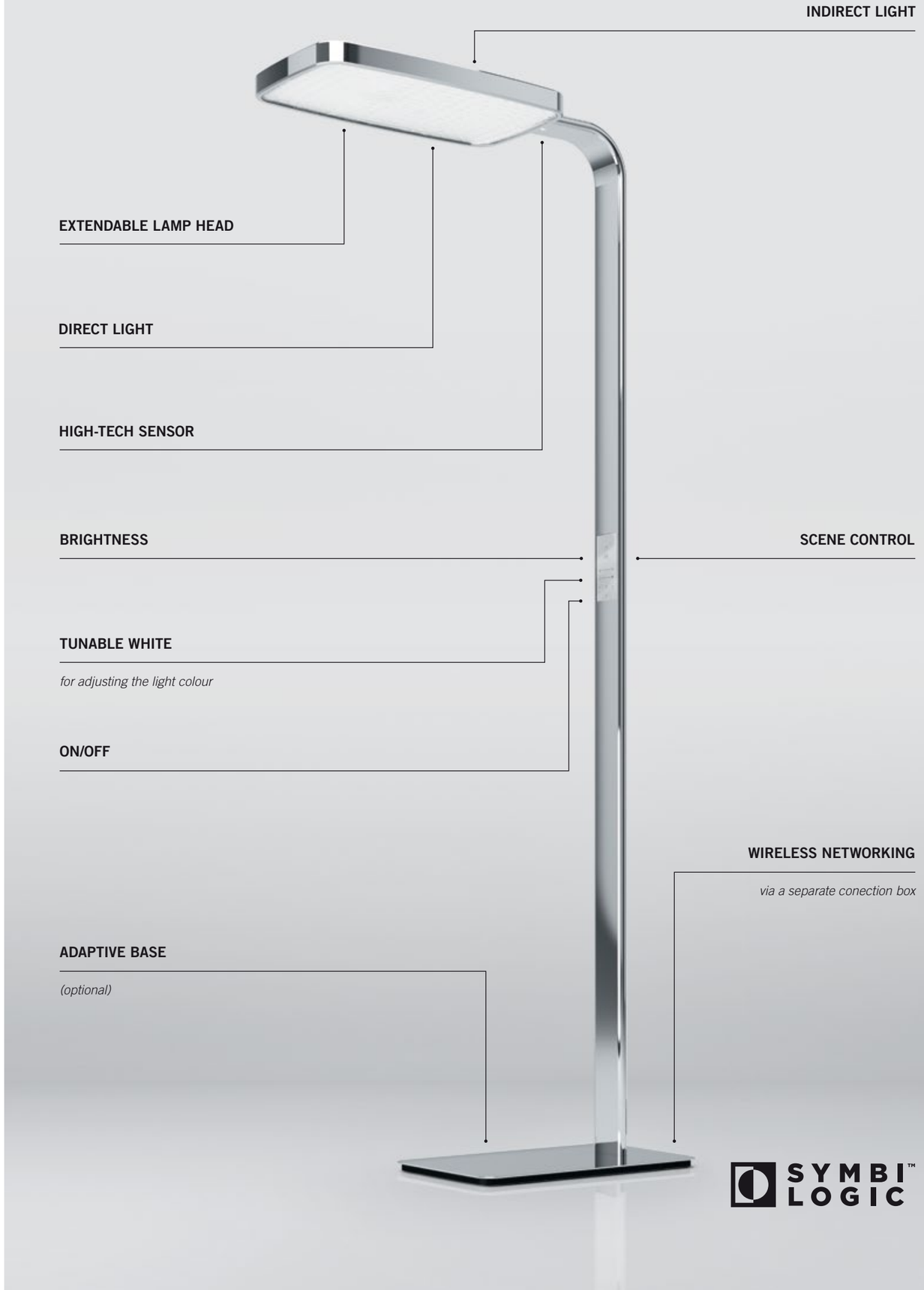
The crucial difference between good light and the best light can also be influenced by the diffusor. An uninterrupted workflow can only be maintained across the entire room when the light's structural design protects users at neighbouring desks from glare. For this purpose, a diffusor was developed for the PRANA+ Office Floor Light that even meets the high standard requirements for technical drawing.

One base for all situations. *Always stable and a perfect fit: available in either the standard design (1) or as a separable, patented version for desks with floor-level edges (2).*



Linear movement with great flexibility. *Flexible light head for longer and shorter desk surfaces. 18-cm adjustment zone (3).*

For the most demanding visual tasks. *Glare-free light thanks to a high-end diffusor with optimum distribution.*



LIGHTMANAGEMENT

A LIGHT AS A NETWORKER, PARTNER AND MANAGER

Maximum comfort, energy-efficiency and safety can be achieved only when comprehensive individual setting options are combined with an intelligent light management system. For this reason, any cleverly designed modern lighting solution must also feature adequate integrated intelligence.

To perform this function, a high-tech sensor is built into the stem of the floor light. Using its presence and light sensing ability, the sensor decides when and how much artificial light is needed – always in combination with the presence of people and the amount of available daylight. As a result, the lamp consumes energy only when it is really needed and only at the necessary level.

Being a truly helpful partner, the light will not let you down when all your colleagues have already left the office: Via wireless networking and communication with other lights of the same type, a soft, pleasant orientation lighting is maintained in the rest of the room. This prevents the formation of isolated islands of light and creates a lighting atmosphere that still lifts your mood, even when it is well past end of business. When the last person has left the office, the sensor technology automatically switches off all the lights.

In addition to the direct light, the PRANA+ features an indirect light that floods the ceiling – for an appropriate level of versatility in a lighting concept. The user can adjust the brightness of both light sources and also has complete control over the light colour. The light's Tunable White function allows the colour temperature to be infinitely adjusted between warm white and cool white. Unlike most lights on the market, the brightness level is maintained when only the colour temperature is adjusted, meaning that the desired mood or the ability to complete visual tasks remains undisturbed.

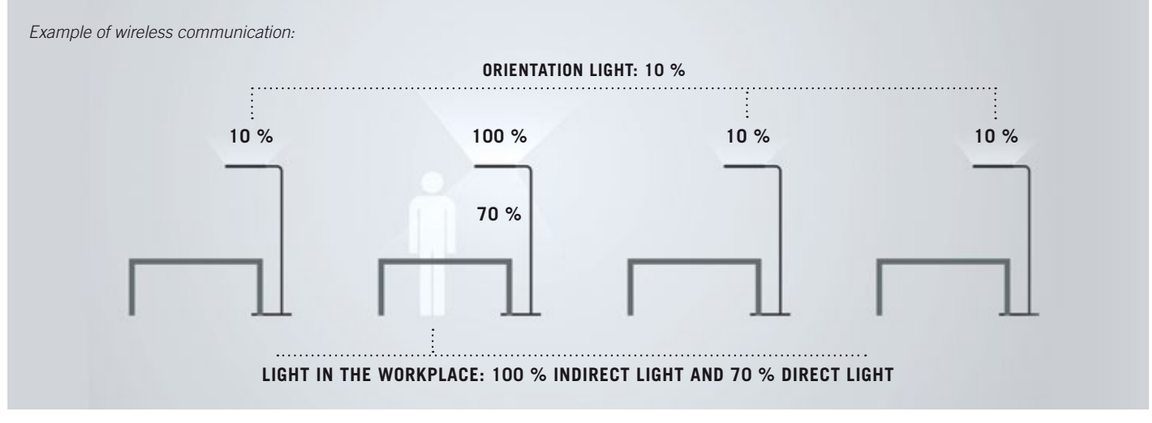
▲ ***Two light sources – One Floor light.*** *Direct and indirect lighting for different moods.*

◀ ***Intelligent timer.*** *High-tech sensor for increased comfort, energy efficiency and safety.*

▶ ***Never again alone in the office.*** *Wireless controls for orientation lighting and more.*

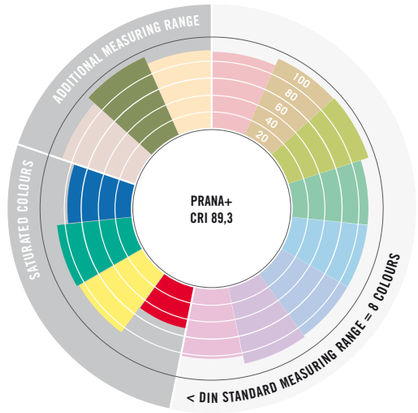
▼ ***The last one switches off the light.*** *Better energy efficiency and light atmosphere thanks to networked sensor technology.*

Example of wireless communication:

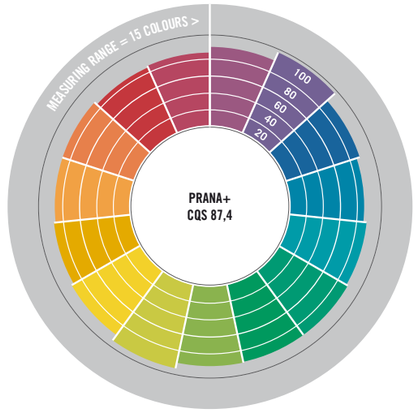


GIVING OUT THE BEST LIGHT

FIRST-CLASS LIGHT QUALITY FOR MAXIMUM VISUAL COMFORT



ESYLUX CRI spectrum
PRANA+ measurement result



ESYLUX CQS spectrum
PRANA+ measurement result

ESYLUX is not only an illuminating example in terms of top-class design, but also in terms of the core of every lighting solution – the quality of light itself. Here there is only one measure: daylight.

We are perfectly positioned to replicate this benchmark as closely as possible. In our headquarters, referenced light laboratory, all light-relevant quality characteristics are tested and continuously improved throughout the whole development process. This enables us to achieve results that far exceed the standard minimum requirements. One example to highlight: Securing the best possible colour rendering. The eight prescribed test colours of the Color Rendering Index CRI fall a long way short of our requirements in this matter – therefore we use all fifteen colours, thereby creating LED light that far exceeds the standard colour rendering. ESYLUX is also one of the first manufacturers to integrate the Color Quality Scale (CQS) into its measuring methods. Together, the CRI and CQS guarantee the realistic rendering of even weak colours and highly saturated colours. This ensures that surfaces and objects are accurately rendered in the correct light, creating a more pleasant lighting atmosphere and greater visual comfort. A brilliant idea.

LOW FLICKER FACTOR, HIGH VISUAL QUALITY

LEDs respond much more quickly and directly to the natural variations in alternating current than the classic incandescent lamp: They tend to flicker – a special challenge when developing top quality LED lighting. Even if the flickering is within a frequency range not visible to the human eye, it can still be tiring, create feelings of dizziness and, in some cases, even have far-reaching health consequences. Anyone who cares about the end users of a building will therefore look for lighting with the lowest possible flicker factor – ESYLUX offers a clear perspective well above the standard in this area.

LIGHT, THAT WORKS SIMPLY BETTER: HIGH PRODUCTIVITY AND HEALTHY SLEEP

Light is fascinating and it enriches human life. It is only thanks to light that we can see in colour, watch films or paint pictures. Light casts out shadow and gives us a clear view that reveals the beauty of this world. It helps us to navigate and instils us with a sense of security and protection.

However, light is a giver of life to people not only because of its visual elements – its potential impact goes much further than that. As shown by many scientific studies, the healthiest light for humans must be based on the dynamic light of the sun, due to the positive biological effects of natural daylight. There is a term that best encompasses this aim: human centric lighting, the highlight of indoor lighting. When a lighting solution pursues this principle, it brings a little sunlight indoors. This approach combines direct light with large-area lighting and generates a dynamic progression of light colour and light brightness throughout the day. The result: People's hormonal systems continuously receive an optimum mixture of light that promotes vitality, wellbeing and concentration, as well as benefiting health by synchronising people's biorhythms with the time of day. As a result, people can get off to a better start into the day and achieve a higher level of productivity than ever before, and in the evening, the light helps to prepare them for a refreshing night's sleep – ensuring that they are energised to face the challenges of the next day.

To also enhance people's quality of life using a biodynamic light in the workplace, we have developed our own technology and integrated it into the PRANA+ Office Floor Light: the SymbiLogic Technology. This technology is optimised for more than just the positive biological effect of everyday lighting in the office. Using high-tech sensors, it also enables highly energy-efficient implementation by harnessing the "real" daylight entering from outside with its dynamic light programme. The result is a special kind of symbiosis: On the one hand, people benefit from nature because they have been able to learn from it which lighting is best for them, and are then able to simulate that lighting in indoor spaces. On the other hand, nature benefits from the implementation of a resource-efficient, sustainable lighting solution. In this way, our SymbiLogic Technology promotes a more balanced relationship between people and nature, and continuously supplies the user with the most suitable light. This technology represents the impressive culmination of our experience in electronics and automation that we have acquired over decades. It is the ultimate proof that light can provide so much more than just illumination.

SYMBILOGIC IS THE ESYLUX TECHNOLOGY FOR ENERGY-EFFICIENT HUMAN CENTRIC LIGHTING

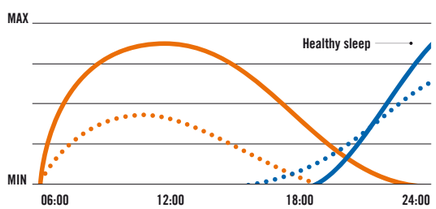
The biologically effective light of SymbiLogic solutions sustainably improves quality of life. This benefits every individual employee and the entire company. because motivation and satisfaction levels in the workplace rise and performance significantly increases. At the same time, Human Centric Lighting can prevent illness-related absences and help to reduce the risk of work accidents.

SYMBI LOGIC™

INCREASES
MOTIVATION
PRODUCTIVITY
EMPLOYEE LOYALTY

REDUCES
ERRORS
ABSENCES
WORKPLACE ACCIDENTS

Source:
Report, Quantified benefits of Human Centric Lighting' by LightingEurope & ZVEI, April 2015



Example vitality curve: with SymbiLogic
*Example vitality curve: conventional lighting**
Example melatonin production: with SymbiLogic
*Example melatonin production: conventional lighting**

**Estimates based on design guidelines from DIN SPEC 67600*

THE FIRST LIGHT

THAT'S REALLY BRIGHT

When all of the factors that constitute a high-quality lighting solution are optimised, perfectly balanced and skillfully combined, the result is more than just the sum of all these individual factors. Design, intelligent functionality and light quality blend into an organic whole – into an ideal, balanced composition that inspires people. That captures the imagination. That conveys a concept of perfection.

THAT IS PRANA+.

BY THE PUSH OF A BUTTON TO ROME

OPERATION AND PERSONALISED LIGHTING

Comprehensive and clear
The wide range of setting options offered by the web application allows the light to be adjusted to meet your exact personal requirements.

WEB APP ON TABLETS, PCS AND SMARTPHONES

Convenient operation via digital communication has long been a matter of course when a product solution needs to be easy to use. So it goes without saying that we have enabled the same technology in the PRANA+ Office Floor Light: For smartphone, tablet or PC to complement the functionality of the intuitive control element in the light stem. The wide range of controllable parameters is exactly what you would expect from the high standards of the PRANA+ series: Whether it is needed to tweak the brightness or light colour, direct or indirect light, the user is given a full spectrum of options to adjust the PRANA+ to his or her precise requirements. The ability to save individual profiles is just one of these options, as is the ability to fine-tune the presence automation or configure the network settings as required.

Sunlight on demand
Simply adapt the biodynamic lighting programme to the lighting conditions of different world cities – easy: with our SymbiLogic technology.

STOCKHOLM **NEW YORK** **DUBAI** **RIO**

However, the absolute highlight is a special lighting feature that can only be adapted perfectly to user requirements using our software. The geo-physical backstory to this is the fact that the light from the sun changes dynamically throughout the day, varying in colour and brightness in different ways and in different locations around the world – different latitudes result in different light. For this reason, we have programmed the PRANA+ to simulate the natural light progressions of a diverse range of world cities, which can be selected or deselected using the web application. Only you can decide where your lighting journey will take you: to 5th Avenue in the Big Apple? The Stockholm archipelago? Or how about a cappuccino in the "Eternal City" by the Tiber River?

WHEN BEAUTY IS PASSED ON

THE PRANA+ SERIES PENDANT LIGHT

It is unmistakably part of the family from the very first glance. The PRANA+ pendant light perfectly complements the floor lights in the series and promises a harmonious overall design for lighting planning in all offices. The pendant light is just as timelessly sleek and elegant in appearance, featuring high-quality materials and excellent light quality. Every detail is designed to impress: To preserve the clean-cut, aesthetic design, the cable routing is hidden in the suspension. DALI-compatibility enables integration into digital environments with corresponding individual control to create the perfect lighting moods. And even the pendulum light is available in designs with indirect overhead light and Tunable White function.

PRANA+

MADE IN GERMANY

PRANA+ PENDULUM LIGHT

PERFECTION IN LIGHTING AND DESIGN.
PRANA+ PENDULUM LIGHT

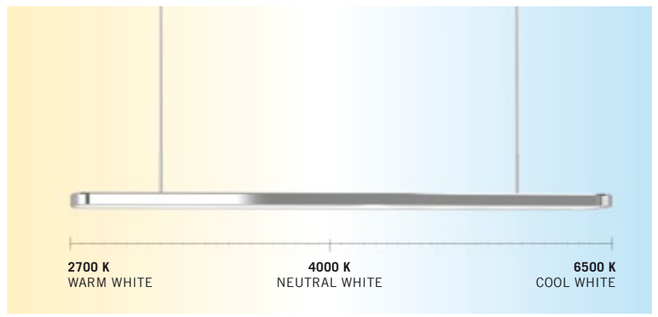
BETTER TO SEE AND BE SEEN

The PRANA+ pendant light complements the series with adequate ceiling lighting for a harmonious overall design in all offices. The light features the same clear, linear form and styling as the rest of the series and employs the same high-quality materials while maintaining its own balanced aesthetic through the use of intelligent details.

Furthermore, the Tunable White setting for infinitely adjusting the white tone, an optional indirect overhead light and DALI compatibility enable intelligent light management according to the user's individual preferences.

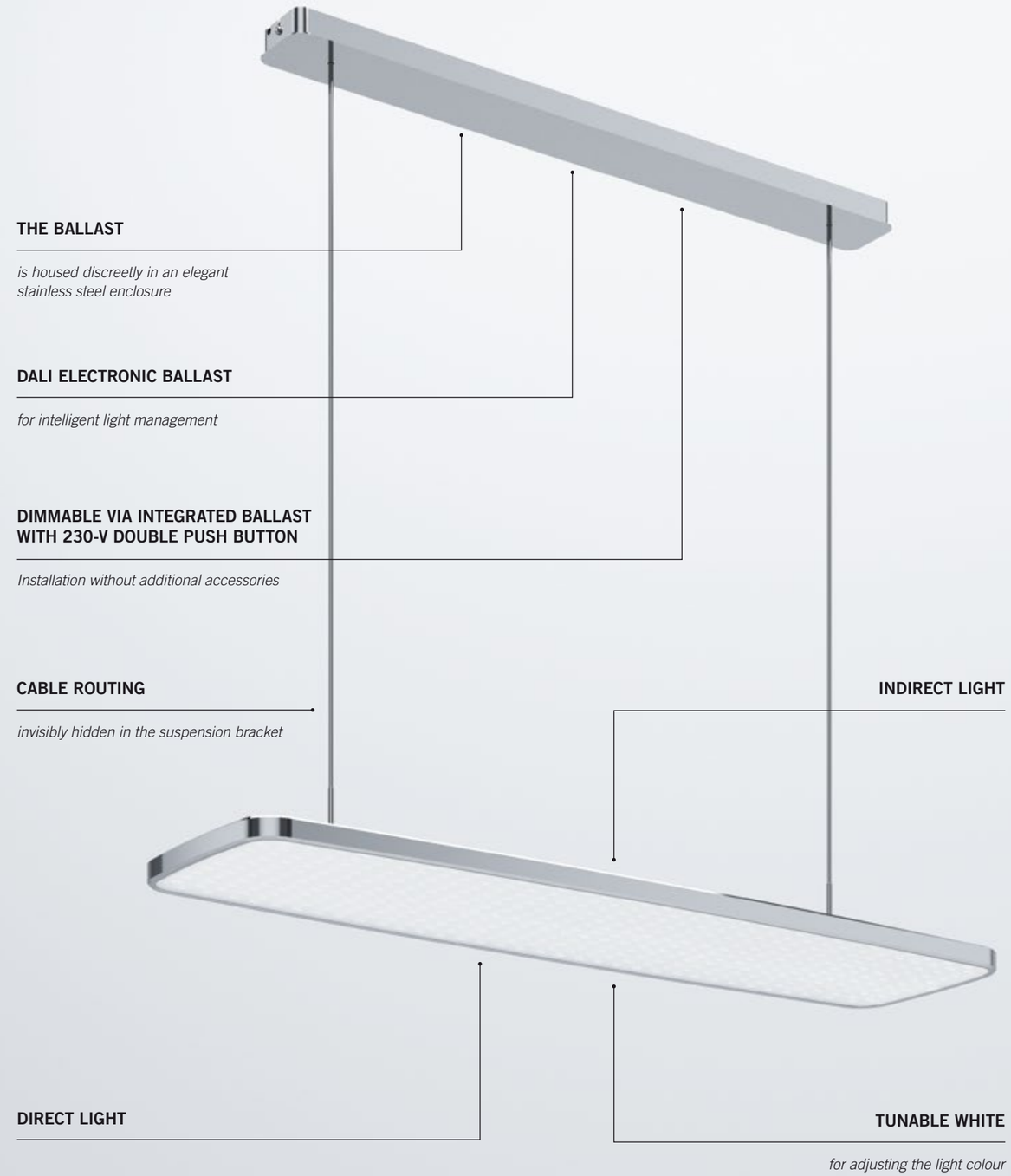
Ideal illumination for any workspace. *A direct light and an optional ceiling-flooding light create individual moods. The brightness level can be controlled independently.*

Do not disturb. *The special diffusor of the PRANA+ pendant light guarantees glare-free work thanks to its particularly low UGR value – meaning that you can complete even the most demanding visual tasks.*



A white tone to suit every mood. *As an option, the pendulum light also features a Tunable White setting for infinitely adjusting the light temperature between warm and cool white.*

Perfectly formed. *To preserve the clean-cut, aesthetic design, the cable routing is invisibly hidden in the suspension. Even the ballast is contained within the elegant stainless steel housing.*



PRODUCT OVERVIEW

PRANA+ OFFICE FLOOR LIGHT

A STYLISH PERFORMANCE IN EVERY SETTING

To ensure that the floor light can be seamlessly integrated into their surroundings, we add different finishes to the light's surfaces. Whether you choose anodised black, powder-coated white or chrome, there is a variant to suit every indoor setting.

chrome

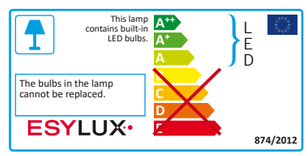
anodised black

powder-coated white

TECHNICAL DATA

Colour temperature			**2700–6500 K (Tunable White)**
Item no.	with standard base	powder-coated white	EV10401039
	with extendable base	powder-coated white	EV10401008
	with standard base	anodised black	EV10401046
	with extendable base	anodised black	EV10401015
	with standard base	chrome	EV10401053
	with extendable base	chrome	EV10401022
Nominal voltage			110–230 V/50–60 Hz
Rated output			110 W
Luminous Flux (light)			11475 lm
Luminous efficacy			104 lm/W
Beam angle			95°
Glare rating			UGR ≤ 16
LED service life at T_a = 25 °C			$L_{80}B_{10}$ = 50.000 h
Colour Rendering Index (CRI)			> 85
Colour Quality Scale (CQS)			> 85
Overall power factor of electronics			> 0,95
Colour tolerance			SDCM < 3
Permissible ambient temperature			0 °C...+40 °C
Protection type			IP 20
Protection class			I
Connection			with separate power supply
Interface			WIFI Access Point EnOcean receiver
Dimensions		Length:	780 mm
		Width:	310 mm
		Height/Depth:	2000 mm
Material			Aluminium
With integrated presence detector			•
Detection angle			340°
Detection range			Ø 6 m
Switch-off delay			approx. 1–10 minutes

Technical and design features may be subject to change. The power output may deviate from the specified value by +/- 10 %.
The light contains built-in LED lamps. The lamps in the light cannot be changed.



PRODUCT OVERVIEW

PRANA+ PENDULUM LIGHT

A STYLISH PERFORMANCE IN EVERY SETTING

To ensure that the pendulum light can be seamlessly integrated into their surroundings, we add different finishes to the light's surfaces. Whether you choose anodised black, powder-coated white or chrome, there is a variant to suit every indoor setting.

chrome

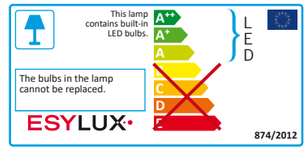
anodised black

powder-coated white

TECHNICAL DATA

Colour temperature				**3000 K**		**4000 K**		**2700–6500 K (Tunable White)**	
Item no.	Downlight	**DALI***	powder-coated white	EV10125256		EV10125263		EV10125270	
	Downlight	**DALI**	anodised black	EV10125157		EV10125164		EV10125171	
	Downlight	**DALI**	chrome	EV10125058		EV10125065		EV10125072	
	Up/Downlight	**DALI**	powder-coated white		EV10125201		EV10125218		EV10125225
	Up/Downlight	**DALI**	anodised black		EV10125102		EV10125119		EV10125126
	Up/Downlight	**DALI**	chrome		EV10125003		EV10125010		EV10125027
	Downlight	**DIM***	powder-coated white	EV10125096		EV10125188		EV10125034	
	Downlight	**DIM**	anodised black	EV10125133		EV10125195		EV10125041	
	Downlight	**DIM**	chrome	EV10125188		EV10125232		EV10125089	
	Up/Downlight	**DIM**	powder-coated white		EV10125300		EV10125331		EV10125294
	Up/Downlight	**DIM**	anodised black		EV10125317		EV10125348		EV10125287
	Up/Downlight	**DIM**	chrome		EV10125324		EV10125355		EV10125249
Nominal voltage				230 V/50 Hz, DALI	230 V/50 Hz, DALI	230 V/50 Hz, DALI	230 V/50 Hz, DALI	230 V/50 Hz, DALI	230 V/50 Hz, DALI
Rated output				30 W	60 W	30 W	60 W	30 W	60 W
Luminous Flux (light)				3300 lm	6210 lm	3360 lm	6300 lm	3560 lm	6760 lm
Luminous efficacy				110 lm/W	103 lm/W	112 lm/W	105 lm/W	118 lm/W	112 lm/W
Beam angle				98°	98°	98°	98°	98°	98°
Glare rating				UGR ≤ 16	UGR ≤ 16	UGR ≤ 16	UGR ≤ 16	UGR ≤ 16	UGR ≤ 16
LED service life at T_a = 25 °C				$L_{80}B_{10}$ = 50.000 h	$L_{80}B_{10}$ = 50.000 h	$L_{80}B_{10}$ = 50.000 h	$L_{80}B_{10}$ = 50.000 h	$L_{80}B_{10}$ = 50.000 h	$L_{80}B_{10}$ = 50.000 h
Colour Rendering Index (CRI)				> 80	> 80	> 80	> 80	> 85	> 85
Colour Quality Scale (CQS)				> 80	> 80	> 80	> 80	> 85	> 85
Overall power factor of electronics				> 0,9	> 0,9	> 0,9	> 0,9	> 0,9	> 0,9
Permissible ambient temperature				0 °C...+40 °C	0 °C...+40 °C	0 °C...+40 °C	0 °C...+40 °C	0 °C...+40 °C	0 °C...+40 °C
Protection type				IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Protection class				II	II	II	II	II	II
Connection				Electronic ballast	Electronic ballast	Electronic ballast	Electronic ballast	Electronic ballast	Electronic ballast
Installation type				Pendant suspension max. 2000 mm	Pendant suspension max. 2000 mm	Pendant suspension max. 2000 mm	Pendant suspension max. 2000 mm	Pendant suspension max. 2000 mm	Pendant suspension max. 2000 mm
Dimensions	Length:			1200 mm	1200 mm	1200 mm	1200 mm	1200 mm	1200 mm
	Width:			335 mm	335 mm	335 mm	335 mm	335 mm	335 mm
	Height/Depth:			28 mm	28 mm	28 mm	28 mm	28 mm	28 mm
Material				Aluminium	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium

** The DIM versions of the PRANA+ Pendulum Light can be operated with a simple, standard 230-V switch. The DALI variants require a DALI control to be installed.*



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BIOLOGICALLY EFFECTIVE LIGHTING

ENSURES THE BEST LIGHT FOR THE WORKPLACE

SYMBI LOGIC™

USER-FRIENDLY LIGHT SOLUTIONS – DESIGNED BY SIMPLICITY

Light is an indispensable resource and a giver of life – an existential energy source for people. That is why for ESYLUX, people's needs and requirements are the most important of all things when it comes to the development of high-quality lighting.

With more than 40 years of experience on the market, we have made more thant just an international name for ourselves, thanks to our expertise in sensor-based building automation and our focus on Germany as a geographical centre for research, development and production. Who else, if not us, can build on such extensive specialised knowledge as a provider of modern lighting solutions? After all, in addition to high light quality, sophisticated 21st century lighting also requires the option to have an intelligent control concept – only then can lighting fixtures be transformed into a tangible solution.

Whenever and wherever the sun's rays are not sufficient, we can create an alternative to complement or adequately replace them with our LED solutions. To achieve this, we combine the highest light quality with intelligent, energy-efficient technology and provide people with the right light at the right time. Driven by our unrelenting innovative spirit, which is documented in various trademark rights and patents, there is one goal that we always keep in focus, despite the complexity of all the necessary requirements: the performance for simplicity. We live simplicity in all areas, processes and products because a solution only helps people to advance when it is easy to implement, install and use.

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