## PHILIPS

## SlimBlend

Office lighting

Product guide

## Performance combined with ultimate control possibilities



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# Improving building performance and empowering employees through lighting 

Organizations are considering state-of-the-art workplace strategies to enhance the comfort and well-being of their employees. In common with real estate companies, they also seek to create workplaces that integrate in-house and third-party systems that collect and share information about building use and operation. The goal is for inhabitants of a space to use it more efficiently. As more people are coming to realize, lighting can play a central role in each of these areas. Networked technologies are creating new opportunities to use lighting infrastructure to deliver "great places to work.

Optimizing operations
Of primary importance here are efficiency, compliance, and sustainable, future-ready solutions that can help building owners maximize their investments. Having an energy-efficient solution in place is considered important as well, but as the transition to LED has already significantly decreased energy consumption, finding the ultimate energyfficient solution, one that will minimize costs as much as possible, isn't a top priority.

## Boosting employee comfort and engagement

deally, office design should help employees perform and engage better with each other and the company as a whole. Trends are pointing in that direction and there's visibly growing interest in creating workspaces hat suit the different needs and behaviors of a diverse workforce. Concerns with health and wellbein are driving factors in this transition. For knowledgera companies especially, its crucial to attract and etain and atmosphere of a workspace are key factors in
recruitment. The offices that stand out are those whose workspaces have been designed in line with a clear vision, a vision that links directly to desired business outcomes.

## Enhancing the performance of a space and its users

 In terms of performance, the key issue is how lighting can enhance a building's efficiency and let users use it as effectively as possible. It's recognized that different office areas-open spaces, meeting rooms, breakout and hospitality areas, and so on-need to lit differently. Different ligizable areas in the office, further optimizing the use of space.
## Meet SlimBlend

High performance combined with ultimate control


Appealing slim design
Looking for a distinct look \& feel in your office lighting? SlimBlend comes in a complete family of slim, squar and rectangular luminaires - recessed, surface and suspended - that can be used across the office space This flexible approach allows you to install attractive ligh win design into your ceiling architecture.

Comfortable office-compliant lighting
SlimBlend is designed to provide comfortable pleasant and office-compliant lighting for office workers. Luminaires use the 'trapped' light under the edge to create a subtle glow, creating a smooth and soft transition (Soft Edge'), and lowering the brightness perception. The light distribution is optimized, with a more tailored beam, and mor light in lower angles

Fast Return on Investment
With SlimBlend, you get the ideal balance between initial cost and return on investment; payback is less than three years. Its side-lit solution efficacy is good. Both installation and maintenance of SlimBlend are quick and easy, which leads to further time and cost savings.

Application and form flexibility
The luminaires in the SlimBlend family have been designed to fit into various recessed ceilings architectures, including those with limited space in the plenum. Furthermore, SlimBlend comes in a complete family of recessed, surface-mounted and suspended luminaires. This flexibility enables you to perform 1:1 replacement, and bring consistency across offices with different ceiling architectures.

Scalable and compatible with lighting systems and controls
SlimBlend can be combined with controls to further enhance savings and comfort. It can even be part of a connected lighting system to deliver additional benefits like data collection on space usage, occupancy and wayfinding

# Shining the light on quality lighting 

When it comes to designing new office luminaires, Philips has one over-riding objective: the luminaires must deliver lighting of the highest possible quality. Quality is always our number one priority. At Philips, quality lighting means lighting that is fully compliant with all office norms and that delivers a comfortable working experience for office employees.
See how SlimBlend delivers this above-standard quality of light.

Soft Edge transition - for improved brightness perception
SlimBlend luminaires use the 'trapped' light under the masking to create a subtle glow, creating a smooth and soft transition, and lowering the brightness perception for a more comfortable working environment.
Philips has conducted research to validate the relevance of the Soft Edge. The figure displays the percentage of participants with a positive response to the question "Is the brightness of the luminaire acceptable?" Different luminance patterns were investigated, representing the results for were investigated, representing the results for middle rim, homogeneous). It can be clearly seen that positive acceptance of the brightness of the luminaire increased significantly when a Soft Edge is present (minimal, middle and homogeneous) compared to when it is not (no rim).

Optimized light distribution - for low glare
and excellent coverage
Another way to ensure high-quality lighting with SlimBlend is to optimize the light distribution through a more tailored beam $\left(2 \times 47^{\circ}\right)$, and to produce more light in the lower angles, keep glare well under control, and ensure the most efficient coverage of horizontal surfaces.
Due to these features, the lighting effects of SlimBlend result in:

- UGR: <19

L65: $3000 \mathrm{~cd} / \mathrm{m}^{2}$

Micro Lens Optics - for an outstanding look and feel
Philips' use of patented Micro Lens Optics in Stimblend is designed to limit light from angles between $65^{\circ}$ and $90^{\circ}$. The conical shape produces identical luminance cut-off in all directions; an inverted cone results in less light scattering. The end result is a high-end look and feel due to the liveliness of surface, and the optimal balance between depth and visual appearance of the structure being illuminated.


Polar intensity diagram




## Family range

You can equip your entire office with SlimBlend as the family covers all the main office areas such as open spaces, meetings rooms and corridors as well as places that are used for client visits. All SlimBlend luminaires are slim and attractive, and come in a variety of modern designs: recessed, surface mounted and suspended, including rimless types.


Three types of recessed versions are available



# Maximize savings and comfort with ActiLume 

ActiLume is a wired lighting control system based on the DALI automation protocol (Digital Addressable Lighting Interface). It is designed specifically for office applications, from open-plan to cell offices, lobbies to small meeting rooms, and even corridors and reception areas. By monitoring the daylight levels with light sensors, ActiLume can seamlessly adapt the luminaires'
output levels to "harvest" the available natural light and improve visual comfort for users, while making sure no unnecessary artificial lighting is added. By responding to human moverporating extended delays, the motion sensors guarantee optimally functional lighting leaving the lights off or dimmed where and when they are not needed.

## SpaceWise

## An easy to use lighting

 system for modern officesInstalling a lighting system used to be hard work - complicated designs, tricky wiring, difficult commissioning. SpaceWise saves you all the hassle.

Why pay for lighting you're not using? With controllable wireless lighting you don't have to. Embedded sensors 'talk' to each other and detect when someone is in the the available daylight - saving money while providing a constant light level.

The days of wasting energy after-hours are over too, Background lighting gives evening workers a feeling of security - despite luminaires operating at a fraction
of their full output. Connect your SlimBlend luminaires to SpaceWise today, and start enjoying the benefits!

## Emergency lighting Safety and peace of mind, with TrustSight

Without emergency lighting in place, power cuts can have devastating consequences in offices, plunging them into darkness and making escape routes impossible to find. TrustSight LED Emergency drivers and batteries provide a fail-safe solution for total peace of mind. In the event of AC power loss, the emergency driver immediately switches from battery charge mode to illumination mode. It takes over the function of the standard LED driver, operating your LED luminaire as a decentralized system when mains power fails.
TrustSight LED Emergency systems are ideal for office environments as they complement original architectural and lighting designs. Their standard housing and small system dimensions make TrustSight easy to design into SlimBlend luminaires. Moreover, they are easy to install and configure.


## SpaceWise benefits at a glance

## Saves energy, cuts costs

LED luminaires and embedded sensors reduce energy usage by up to $70 \%$. Automatic dimming ensures you only pay for lighting when and where it is needed.

## Provides visual comfort

Set lighting levels to keep employees happy, productive and feeling safe.

## Easy to install

Plug-and-play setup makes installation hasslefree. As a stand-alone system, there's no need for any network, computer or light-meter.

## Flexible

The configuration app provides total flexibility: you can easily alter sensor configuration patterns and reconfigure lighting groups or individual luminaires to meet your needs.

## Improve your sustainability credentials

Sustainable LED technology doesn't just help the environment - it helps keep you compliant and you may qualify for Green Building Certification credits.



## Create a smarter workplace with Interact Office

Interact Office IoT connected lighting system and software helps you optimize your lighting investment by delivering granular insights into your use of space and energy. The connected lighting infrastructure delivers valuable information which allows you optimize your space, deliver efficiencies in building operations, create productive workspaces and save up to 80\% on lighting energy bills

Philips LED luminaires with integrated oT sensors, such as SlimBlend, collect, send and receive anonymous data on anything from occupancy to temperature ornd elivering you valuable insights and remotem en over your fife lighting Visible Cover your (VLC) from the ginaires creates a hyper-accurate indoor positioning grid; coupled with Interact Office software and apps it can be used forwayinding room booking asset and olleague location.

With Interact Office you can track and optimize how space is used over time.

Illuminate spaces only when people are present. See when meeting rooms are free or need cleaning. And give employees control over their persona workspace environment.

Welcome to a new era of 'building intelligence with light'. It's the smart way to lift employee engagement, enhance comfort and performance, improve your bottom line through operational efficiencies and meet your business sustainability goals. Take advantage of the huge potential of the Internet of Things with an Interact connected lighting system that's ready for tomorrow.
For more information about Interact Office visit: www.interact-lighting.com/office


## What to consider when selecting new office lighting

In some respects, office lighting is working optimally when it's not noticed. This is when it provides consistent, high quality illumination of the office without causing discomfort or any annoying or undesirable effects.

Here are some aspects of office lighting that ensure a healthy, enjoyable, comfortable, productive and even costefficient working environment.

## Constant Light Output through lifetime

Like all light sources, LED depreciates over time When power is constant, luminaires will deliver less light at the end of their lifetime than at the start.

The illustration below left shows a typical solution to counteract this effect. It involves specifying more light initially to ensure a sufficient amount of light later However, this gives too much light immediately after installation and therefore more energy consumption than is needed to comply with requirements.

The graph below right shows the Constant Light Output (CLO) solution from Philips Lighting. It involves dimming the light at the start (and using less power) and over time increasing the power to correct for the depreciation. The result is that over the full lifetime of the LED luminaire, its light output will remain constant, while energy consumption falls by up to $10 \%$.

## Eliminating all types of glare

The unwanted effects of overly bright light sources on desks, screens or working areas are all too commonly experienced. They can be due to one or all of the following:
Direct glare (a bright light source directly in your field of view)

Indirect glare (a reflected bright light source,
for example in a screen)
Overhead glare (a bright light source above you and outside your field of view).

Office-compliant lighting is required to eliminate direct and indirect glare; elimination of overhead glare is more of a recommended feature.

## Reducing flicker and stroboscopic effect

Flicker and stroboscopic effects are associated with a rapidly fluctuating light source. They may lead to undesired effects for office workers such as annoyance fatigue, headache or reduced performance.

By helping you select the right equipment and components to reduce current fluctuations, we can ensure that flicker and stroboscopic effects are kept within acceptable limits.

## ENEC+ certification

Users of LED based products seek validation of the various claims regarding the long-term benefits and performance of LED technology. Responding to this market need, Lighting Europe, the voice of the European lighting industry, and the ENEC Mark, the pan-European independent third party certification scheme for low-voltage products, have combined heir efforts to create the ENEC+ Mark.

ENEC+ certification of luminaires and components assures customers that these products are completely safe and perform as promised.


# Lighting design insights 


he bulk of our offices still consist of open plan ffices where employees have fixed or flexible desks. Used mainly for individual work with the occasional chat with co-workers, this space demands a lighting design that focuses on getting the job done. As such a regular grid of recessed luminaires (either square or rectangular) with a comfortable and soft appearance helps with creating an environment where employees can truly focus on the work and the environment itself does not distract or disturb but instead 'disappears' into the background.

The reception area is the business card for any company. It is quite often the first thing that people see when they enter a building. The intention here is leave a good first impression and make customers feel welcome, whereas for the employees it should also be a space which every day still feels like an impressive space making them feel proud of their company. By using a base layer of general lighting with recessed downlights in combination with suspended luminaires over the reception desk this area becomes bright and truly inspiring.
he meeting room is a versatile space where focused work collaboration and learning activities are combined with the occasional social events. As such creating a lighting solution to support communication and interactions is key. To do this, a balanced lighting nstallation is needed lighting both the 'backdrop' (the walls) and the faces in a proper manner. By using ecessed downlights around the perimeter of the room, an even brightness is created on the walls. Additionally, a suspended luminaire is added above the table to enhance the illumination of faces to improv facial recognition and interaction

Whether used for a quick meeting with a colleague or as a private ffice, these smaller rooms should llow for both focused work and ommunication. By using four square suspended luminaires, all the lighting requirements are met as with the large meeting room) while creating an inspiring space to work in

An area to retreat to, relax in and take your mind off work for a little while, and quite often get an important change of scenery As such, SlimBlend surface mounted luminaires can give a different look to the breakout area and differentiate it from the surroundings. As such, SlimBlend surface mounted luminaires can give a different look in the breakout area and differentiate it from the surroundings.

## Accessories and options



Support throughout the entire project lifecycle

Lighting is in our DNA. We've been designing and delivering lighting


## Professional services:

pre installation
We offer help at the planning stage through our unique professional services approach by doing an initial audit and recommending a design solution to ensure best outcomes.

## Audit

## On-site data collection and data analysis

We make recommendations for improving performance, with a clear base line, and ensure you receive the most up-to-date information on the lighting installation

- Lead
- Scope
- Data collection
- Data analysis


## Consulting

## Solution design arising out of data analysis

We come up with the most cost-effective design, incorporating data from the field, and implement the design according to your precise specifications

- Solution design

Business case
Solution implementation
Sign off

## Lifecycle services:

post installation
And post installation we offer a menu of options to choose from, with three packages, from Essential to Premium and Premium+ depending on your needs

| Essential Package | Premium Package | Premium+ Package |
| :--- | :--- | :--- |
| Protecting your investment | Ensuring hassle-free | Optimize performance and |
| and budgeted operation | meet your business objectives |  |
| - Help desk and service ticketing | - Everything in the Essential | - Everything in the Premium |
| - Preventive maintenance | Package | Package |
| via field support | - Comprehensive maintenance | - Documentation and project |
| - Corrective maintenance | via trained service engineers <br> information in a customer <br> fia remote call support | portal |
| - Spare parts and additional service activities |  |  |
| services at discounted prices | - Spare-part kit and |  |
| replacement for failures | - Ongoing user training |  |

## Choice sheet

These are the standard codes: the complete SlimBlend family can be configured on request to meet your needs.


# Range overview 

SlimBlend Square RC400 - recessed
RC400B LED36S/830 PSD W60L60 CPC PIP RC400B LED365/830 PSD W60L60 PCV PIP RC400B LED365/830 PSD W60L60 VPC ACL PIP RC400B LED36S/830 PSD W60L60 VPC PIP RC400B LED36S/830 PSD W60L60 VPC W RC400B LED365/830 PSU W60L60 VPC PIP RC400B LED36S/840 POE W60L60 VPC RC400B LED365/840 POE W60L60 VPC MSE RC400B LED36S/840 PSD W60L60 CPC PIP RC400B LED36S/840 PSD W60L60 CPC W RC400B LED36S/840 PSD W60L60 PCV W RC400B LED36S/840 PSD W60L60 VPC ACL RC400B LED36S/840 PSD W60L60 VPC ACL W RC400B LED36S/840 PSD W60L60 VPC PIP RC400B LED36S/840 PSD W60L60 VPC W RC400B LED42S/840 PSU W60L60 VPC PIP
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Slimblend Rectangular RC400 - recessed RC400B LED36S/830 PSD W30L120 PCV PIP RC400B LED36S/830 PSD W30L120 VPC ACL PI RC400B LED36S/830 PSD W30L120 VPC PIP RC400B LED365/840 POE W30L120 VPC RC400B LED36S/840 POE W30L120 VPC MSE RC400BLED36S/840 PSD W 30 LI20 VPC ACL PIP RC400B LED365/840 PSD W30 120 VPC PIP RC400B LED36S/840 PSD W30L20 VPC W RC400B LED365/840 PSU W30L120 VPC PIP RC400B LED36S/840 PSU W60L60 VPC PIP RC400B LED42S/830 PSD W60L60 PCV PIP RC400B LED42S/840 PSD W30L120 PCV PIP RC400B LED42S/840 PSU W30L120 VPC PIP

## Slimblend Square RC402 - recessed

 RC4028 LED285/840 PSD W62L62 PCV PI RC4028 LED285/840 PSD W62L62 VPC PIP RC4028 LED285/840 PSU W62L62 PCV PIP RC402B LED365/830 PSD W62162 PCV PIP RC402B ED365/830 PSD W62162 VPC PI RC402B LED36S/840 POE W62162 PCV RC402B LED36S/840 POE W621. 62 VPC RC402B LED36S/840 PSD W62L62 PCV PIP RC402B LED36S/840 PSD W62L62 VPC PIP RC402B LED36S/840 PSU W62L62 PCV PIP RC402B LED36S/840 PSU W62L62 VPC PIP RC402B LED42S/830 PSD W62L62 PCV PIP RC402B LED42S/830 PSD W62L62 VPC PIP RC402B LED42S/840 POE W62L62 VPC MSE RC402B LED42S/840 PSD W62L62 PCV PIP RC402B LED42S/840 PSD W62L62 VPC PI RC402B LED425/840 PSU W3LI25 PCV P P RC402B LED42S/840 PSU W31125 VPC PIP$87869917706500 \quad 17706500$ $871869917470500 \quad 17470500$ $871869917467500 \quad 17467500$ 87186991768600017686000 $871869917688400 \quad 17688400$ $\begin{array}{lll}871869917471200 & 17471200 \\ 871869917472900 & 1747290\end{array}$ 878669917468200 174429200 871869917469900 17469900 $871869917705800 \quad 17705800$ $878669917693800 \quad 17693800$ 87186991769380017693800 $871869917707200 \quad 17707200$ 87186991770890017708900

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Product Description
EOC
Short EOC
12NC

SlimBlend Rectangular RC402 - recessed
RC402B LED36S/840 POE W31L125 VPC MSE RC402B LED36S/840 PSD W31L125 PCV PIP RC402B LED36S/840 PSD W31L125 VPC PIP RC402B LED36S/840 PSU W31L125 PCV PIP RC402B LED36S/840 PSU W31L125 VPC PIP RC402B LED42S/840 PSD W31L125 PCV PIP RC402B LED42S/840 PSD W31L125 VPC PIP RC402B LED42S/840 PSU W62L62 PCV PIP RC402B LED42S/840 PSU W62L62 VPC PIP

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SlimBlend Square SM400 - Surface Mounted SM400C LED36S/830 PSD W60160 SM400C LED36S/830 PSU W60L6 SM400C LED36S/840 PSD W60L60
SM400C LED36S/840 PSU W60L60
$371869917712600 \quad 17712600$ $871869917711900 \quad 17711900$ 871869917710200 1771020 87186991770960017709600 050045996 10500459963 10500459962

SM400C LED36S/830 PSD W30L120
$871869917713300 \quad 17713300$
lolle
SM402C LED36S/840 PSD W62L62
SM402C LED36S/840 PSU W62L62
$871869917733100 \quad 17733100$
910500459986

SlimBlend Rectangular SM402 - Surface Mounted
SM402C LED36S/840 PSD W31L125 $\qquad$

Sillar
SP400P LED50S/830 PSD W30L120 D/I ACL SM
SP400P LED50S/830 PSD W30L120 D/I SMT
SP400P LED50S/840 PSD W30L120 D/I ACL SMT
SP400P LED50S/840 PSD W30L120 D/I SMT

SlimBlend Rectangular SP402 - Suspended
Stimblend Rectangular SP402 - Suspended
SP402P LED50S/830 PSD W31L125 D/I ACL SMT SP402P LED50S/830 PSD W31L125 D/I SMT SP402P LED50S/840 PSD W31L125 D/I ACL SMT SP402P LED50S/840 PSD W31L125 D/I SMT $871869917750800 \quad 17750800$ $871869917749200 \quad 17749200$

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05045992 10500459928 50045996 10500459968
Product Description Luminaire type EOC $\quad$ 12NC Comment

Safety cable
Can be combined with SMB
RC400ZSC
Al types

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