



Savio

Pure light

PHILIPS



Wide range

Savio is available in suspended, surface-mounted and recessed versions that can be clustered in block and line arrangements. Wall-mounted and free-standing versions are available to create an intimate and homely ambience.



Dynamic Lighting

A 'personal light' system offers the flexibility to adapt the lighting level and temperature of the light to the mood or task of the moment. The ambient lighting of an entire room can be controlled automatically with a 'dynamic ambience' system.

Experience light and atmosphere

The trend towards multi-skilled knowledge workers and flattening hierarchies will transform tomorrow's office. Office spaces will take on a more social role of bringing knowledge workers together in physical proximity. They will be places where people come together to think, communicate and create.

This vision has driven the design and development of Savio, with freedom in application and configuration being a key objective. Savio features Philips' new micro-lens optic (MLO) technology, which offers the ideal combination of stylish design and optimum performance for both task and general lighting solutions.

As employers battle to recruit and retain talent, working conditions and the well-being of staff have become a crucial issue. Longer working hours and the increasing pace and variety of work require flexibility and individualization in the workplace. Savio supports this with Dynamic Lighting.



Natural anodised aluminium housing with a translucent rim



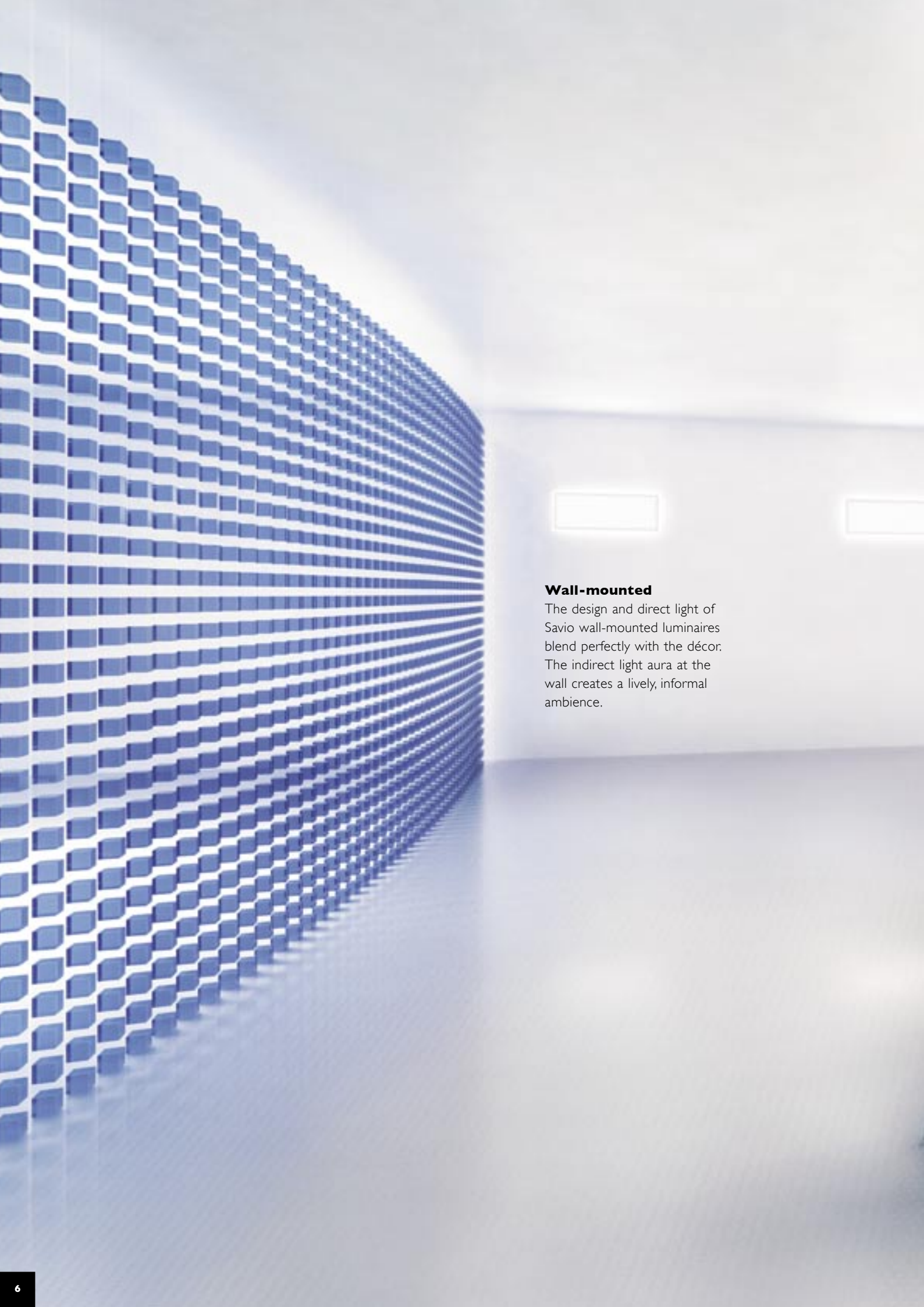
Micro-lens optic

Pure light

Savio has an edge-to-edge lighting appearance with a uniform and comfortable brightness impression – a real 'surface of light'. The patented micro-lens optic consists of a single plate and is embedded in a high-quality natural anodised aluminium housing. Savio ensures optimum light distribution and full glare control compliant with the latest office-lighting norm (EN 12464-1).

The design allows multiple luminaires to be connected in a line or block arrangement. Savio is available as a full range – suspended, surface-mounted, recessed, free-standing and wall-mounted, offering maximum freedom in application.





Wall-mounted

The design and direct light of Savio wall-mounted luminaires blend perfectly with the décor. The indirect light aura at the wall creates a lively, informal ambience.

Arrangements

The illusion of a 'roof of daylight' is created by using Savio surface-mounted luminaires in a block arrangement. A surface of light can easily be created with suspended, surface-mounted or recessed luminaires in a block or line arrangement.





Task lighting

In task areas, Savio suspended luminaires light the desks very efficiently and separate the working area from the rest of the room, creating a more intimate ambience.

Glare control

Glare makes the eye tire quickly, because it has to adjust to large differences in luminance repeatedly. Savio's micro-lens optic is specially designed to prevent discomfort glare and disturbing reflections on PC and laptop screens, in accordance with glare restriction regulations EN12464-1 ($L_m < 1000 \text{ cd/m}^2$ in all viewing directions at $\gamma \geq 65^\circ$ and $UGR_R < 19$).



Light and well-being

Changes in light feel familiar and natural, and thus have a beneficial effect on our mood and alertness and, by extension, our productivity. Savio Dynamic Lighting luminaires create a 'natural' dynamic ambience since the brightness and colour temperature of the light can be varied during the course of the day, as happens with daylight.

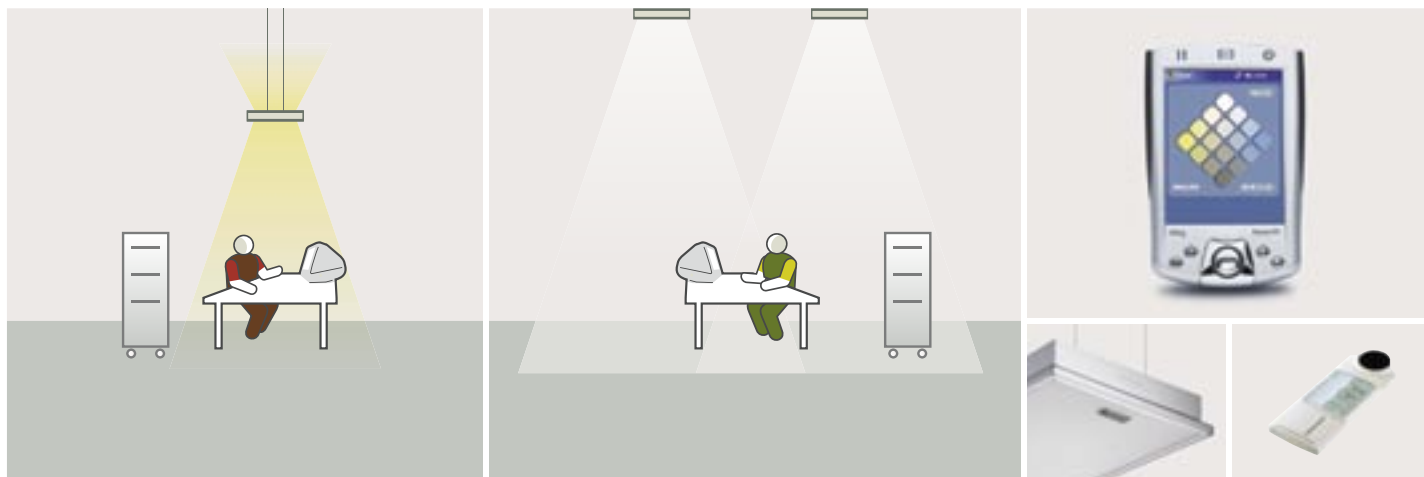
DynamicLighting

Daylight – the form of light with which we are most comfortable – is never constant. It changes in lighting level and colour temperature throughout the day and over the seasons, affecting our emotions, moods, perception and performance. It has been proven that the dynamics of daylight have a stimulating and inspiring effect. Utilising this potential of lighting in offices, Savio enables the creation of 'personal light' and 'dynamic ambience', which have a positive effect on the well-being of office workers.

For more information on Dynamic Lighting, visit www.dynamiclighting.philips.com

Personal light

Personal light enables individuals to control the lighting according to their personal preference. The desired lighting level and colour temperature can easily be set with a remote control to suit their working situation and mood. Personal light is very useful in cell offices, combi-offices and conference rooms.



Personal light above a desk

In this situation, a Savio Dynamic Lighting luminaire with built-in control unit and infrared sensor (master) enables the employee to adjust the light by remote control. He/she can set the lighting level and colour temperature of the light as desired. Presets can be programmed and adapted to personal preferences.

Personal light in a cell office

In a cell office the Savio Dynamic Lighting luminaire (master) can be combined with Dynamic Lighting luminaires without the built-in control unit (slave).

The employee can set the lighting level and colour temperature of the light to his/her own personal preference over multiple luminaires. The Savio luminaires will all react together in the same way. A maximum of three slave luminaires can be connected to one master luminaire.

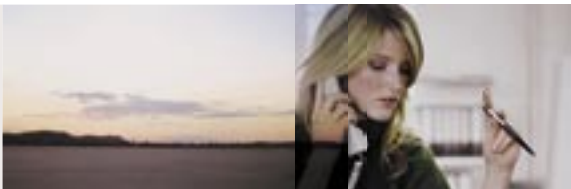
How to control Personal light

Personal light can be controlled with a dedicated remote control (IRT7090/00, EOC 51885500) according to one's personal preferences.

A dedicated software package that allows the lighting to be controlled with a PDA can be downloaded at www.savio.philips.com

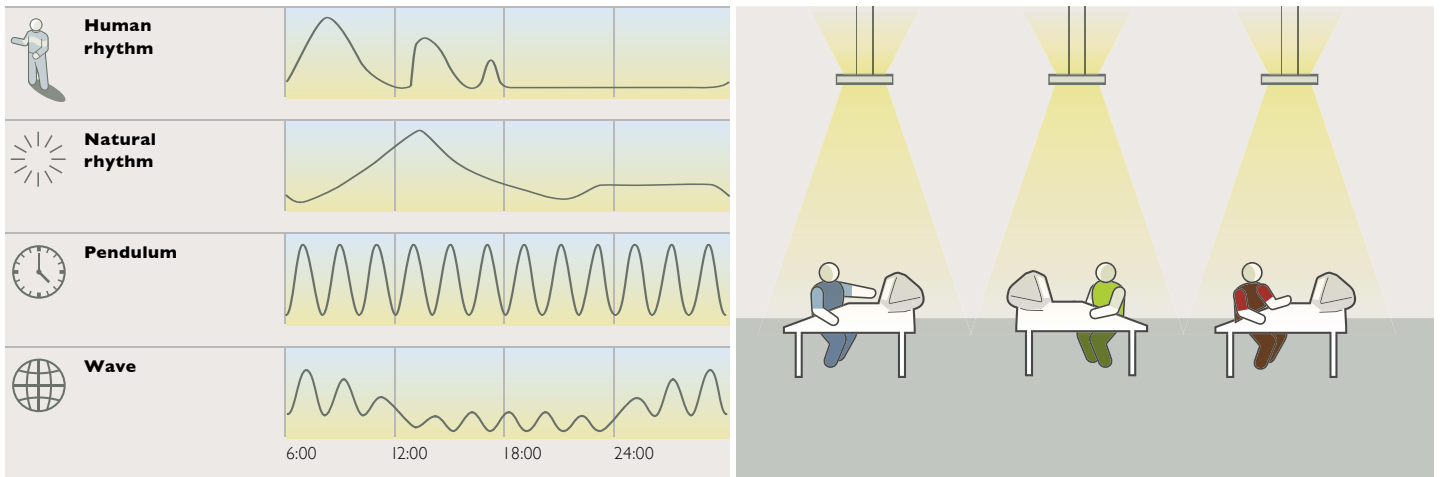
Dynamic Lighting

Dynamic Lighting allows the lighting level and colour temperature of the light to be varied throughout the day or according to personal preference.



Dynamic ambience

Dynamic ambience controls the lighting in an entire room, animating the workspace by changing the lighting level and colour temperature of the light according to a programmed rhythm. It can also be altered to create a different 'feel' in the room, or to revive flagging spirits as energy levels drop. Dynamic ambience is designed for usage in open-plan offices, conference rooms, entrances and lobbies.



Light rhythms for dynamic ambience

The mood, alertness and thus productivity of people at work fluctuate during the course of a working day. Savio makes it possible to create dynamic artificial lighting with four distinct lighting rhythms for the change of colour temperature over the course of a day to keep us feeling fresh and active.

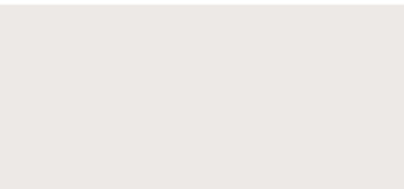
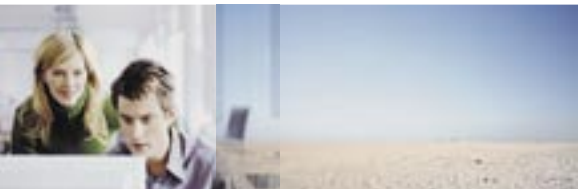
Dynamic ambience in an open-plan office

In larger office spaces, Savio Dynamic Lighting luminaires are all controlled together to create a dynamic ambience. The lighting level and colour temperature of the light vary automatically over time, offering office workers the ideal lighting at every moment of the day.

How to control dynamic ambience

A central controller is required; this is used stand-alone or as part of a building management system using the LonWorks® network protocol.

For stand-alone operation, a KIT is available (KIT7091, EOC 51920399), which includes all the components needed for dynamic ambience with up to 32 luminaires. For more luminaires in a dynamic ambience configuration, an additional controller is required (LRCS140/71, EOC 51892200).



Micro-lens optic

With the new patented micro-lens optic (MLO), the lamps are not directly visible and full glare control from all viewing angles is a reality (Omnidirectional Luminance Control, OLC). Even with $3 \times 49 \text{ W}$ direct lighting in recessed or surface-mounted luminaires the micro-lens optic meets office standards: $L_m < 1000 \text{ cd/m}^2$ in all viewing directions at $\gamma \geq 65^\circ$ and $UGR_R < 19$ (EN12464-1).

This means no disturbing glare on PC or laptop screens, regardless of where they are positioned in the room. The excellent glare control, combined with the high efficiency of over 75% for recessed versions and up to 87% for direct-indirect suspended versions, makes the micro-lens optic an outstanding proposition. And this innovative single-plate optic provides an excellent homogeneous light distribution over the working area.



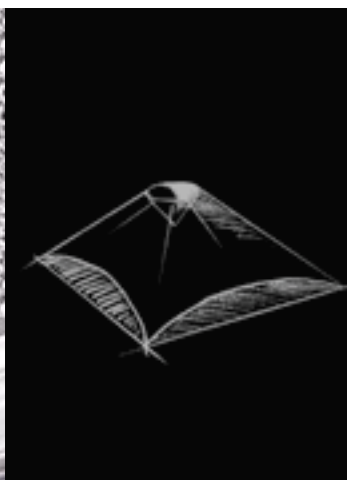
Edge-to-edge lighting

The micro-lens optic is secured by a transparent rim around the luminaire. It provides a uniform light distribution, ensuring a uniform and comfortable brightness impression – a real 'surface of light'. Even the transparent rim has a micro structure for optimum visual comfort.



The principle of the micro-lens optic

The patented micro-lens optic design uses conical lenses with inverted tops that are positioned in a square array for the best possible glare control. The optic fully justifies the designation 'micro' since there are over 35 high-precision lenses per square centimetre.



Peter Holten
Optics development
Philips Lighting Luminaires

Integrated controls

Luminaires can be delivered with miniaturised DALI-based controls, seamlessly integrated in the micro-lens optic. Once the luminaire is installed, the controls are ready to be used.



Dynamic Lighting control

The Savio Dynamic Lighting luminaire for personal light (master) is delivered with an integrated controller to adjust the lighting level and colour temperature. It combines a colour variation control device with an infrared sensor.

A dedicated remote control or PDA can be used to control Dynamic Lighting according to personal preference. One luminaire for personal light (master) can control up to three Dynamic Lighting luminaires without integrated controller.

Ominisense control

Ominisense is optional for standard Savio luminaires. It offers the highest level of interactive control for the modern office. Combining three miniature sensors in a single unit, it provides daylight regulation, occupancy control and interactive individual regulation. The result – maximum visual comfort, flexibility and energy saving.

The range



Suspended

direct or direct-indirect lighting
(Dynamic lighting and standard versions)



Wall-mounted

(standard versions only)



Surface-mounted

(Dynamic Lighting and standard versions)



Recessed

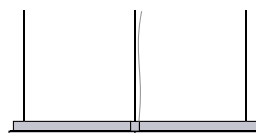
(Dynamic Lighting and standard versions)



Free-standing

(standard versions only)

Arrangements and suspension



Line arrangement

Savio suspended and surface-mounted luminaires can be coupled in a line arrangement. Dedicated line luminaires are available, which include through-wiring and all coupling and suspension elements needed to build a line. No additional parts need to be ordered.

All you have to order is one 'Line end' (LE) luminaire and as many 'Line feature' (LF) luminaires as are needed to create the line you want. For instance, to create a line of three luminaires, order one LE and two LF luminaires.

Block arrangement

Savio suspended square luminaires can be coupled in a block arrangement. All you have to order are four suspended square luminaires (without suspension set) and a coupling set which includes all coupling and suspension elements needed to build a block arrangement (ZPH760 CP-BLOCK SET, EOC 75031600).



SMS suspension

Double-steel-wire suspension set with ceiling fixation and ceiling caps. Fast fine adjustment can be performed with a clutch device. A metal-like power cord is included. The set is delivered along with the rectangular luminaire types.

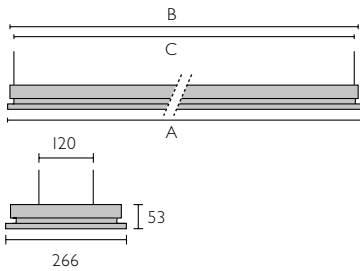
SM4 suspension

Set of four single-steel-wire suspensions with ceiling fixation. A separate ceiling cap is included for the metal-like power cord. The set is delivered along with the square luminaire types.

Technical data

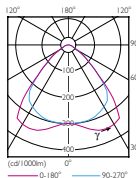
Type

Savio suspended _ rectangular



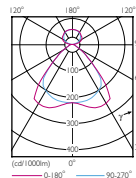
	A	B	C
28 W / 54 W	1259	1235	1200
35 W / 49 W / 80 W	1559	1535	1500

Standard versions



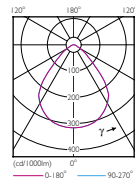
TPS760 2 x 28 W
ND AC-MLO

LOR 69%
UGR_R < 15
L_m < 1000 cd/m²



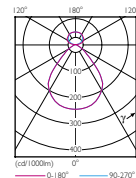
TPS762 2 x 28 W
ND AC-MLO

LOR 74%
UGR_R < 12
L_m < 1000 cd/m²



TPS770 3 x 49 W
AC-MLO

LOR 56%
UGR_R < 16
L_m < 1000 cd/m²



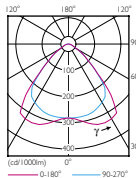
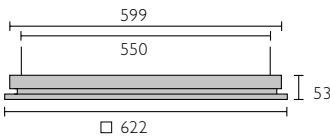
TPS772 3 x 49 W
AC-MLO

LOR 62%
UGR_R < 13
L_m < 1000 cd/m²

Product family

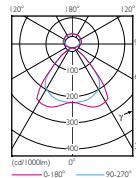
- Lamp type
- Lamp wattage
- Lamp colour
- Gear
- Suspension
- Lighting controls (optional)
- Emergency lighting (optional)
- Cord & plug (optional)
- Fuse (optional)

Savio suspended _ square



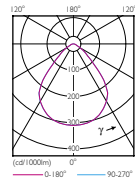
TPS760 4 x 14 W
ND AC-MLO

LOR 65%
UGR_R < 14
L_m < 1000 cd/m²



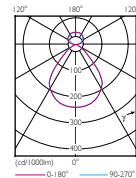
TPS762 4 x 14 W
ND AC-MLO

LOR 70%
UGR_R < 11
L_m < 1000 cd/m²



TPS770 6 x 14 W
AC-MLO

LOR 55%
UGR_R < 14
L_m < 1000 cd/m²



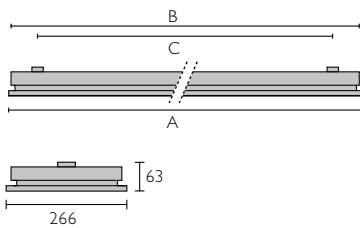
TPS772 6 x 14 W
AC-MLO

LOR 61%
UGR_R < 11
L_m < 1000 cd/m²

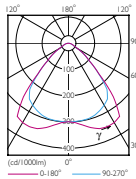
Product family

- Lamp type
- Lamp wattage
- Lamp colour
- Gear
- Suspension
- Lighting controls (optional)
- Emergency lighting (optional)
- Cord & plug (optional)
- Fuse (optional)

Savio surface-mounted _ rectangular

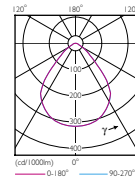


	A	B	C
28 W / 54 W	1259	1235	1100
35 W / 49 W / 80 W	1559	1535	1400



TCS760 2 x 28 W
ND AC-MLO

LOR 69%
UGR_R < 15
L_m < 1000 cd/m²



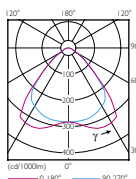
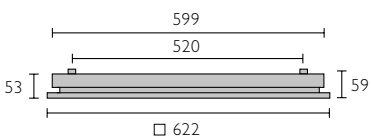
TCS770 3 x 49 W
AC-MLO

LOR 56%
UGR_R < 16
L_m < 1000 cd/m²

Product family

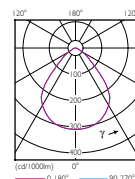
- Lamp type
- Lamp wattage
- Lamp colour
- Gear
- Lighting controls (optional)
- Emergency lighting (optional)
- Fuse (optional)

Savio surface-mounted _ square



TCS760 4 x 14 W
ND AC-MLO

LOR 65%
UGR_R < 14
L_m < 1000 cd/m²



TCS770 6 x 14 W
AC-MLO

LOR 59%
UGR_R < 15
L_m < 1000 cd/m²

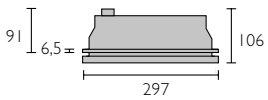
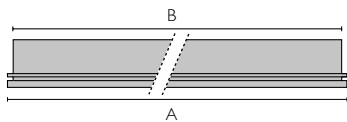
Product family

- Lamp type
- Lamp wattage
- Lamp colour
- Gear
- Lighting controls (optional)
- Emergency lighting (optional)
- Fuse (optional)

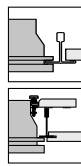
Technical data

Type

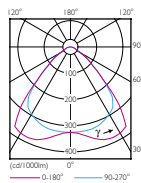
Savio recessed _ rectangular



	A	B
28 W / 54 W	1197	1173
35 W / 49 W / 80 W	1497	1473



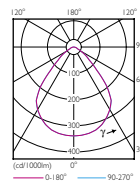
Standard versions



TBS760 2 x 28 W
ND AC-MLO

LOR 75%
UGR_R < 15
L_m < 1000 cd/m²

Dynamic Lighting versions

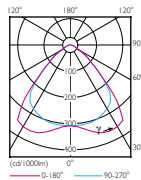
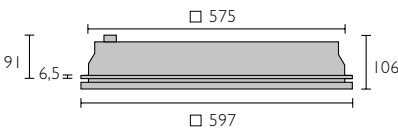


TBS770 3 x 49 W
AC-MLO

LOR 60%
UGR_R < 16
L_m < 1000 cd/m²

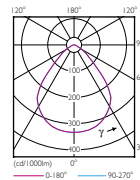
- Product family
- Lamp type
- Lamp wattage
- Lamp colour
- Gear
- Lighting controls (optional)
- Emergency lighting (optional)
- Cord & plug (optional)
- Fuse (optional)
- Safety cable (optional)

Savio recessed _ square



TBS760 4 x 14 W
ND AC-MLO

LOR 71%
UGR_R < 15
L_m < 1000 cd/m²

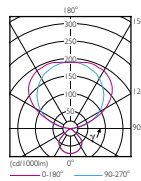
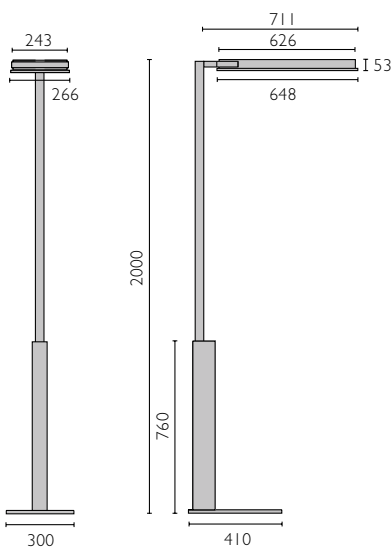


TBS770 6 x 14 W
AC-MLO

LOR 59%
UGR_R < 15
L_m < 1000 cd/m²

- Product family
- Lamp type
- Lamp wattage
- Lamp colour
- Gear
- Lighting controls (optional)
- Emergency Lighting (optional)
- Cord & plug (optional)
- Fuse (optional)
- Safety cable (optional)

Savio free-standing



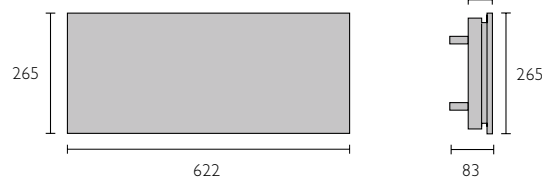
FFS760 3 x PL-L55 W
AC-MLO

LOR 78%
L_m < 1000 cd/m²

Product family

- PL-L lamps
- TL5 lamps
- Lamp colour
- Gear

Savio wall-mounted



Product family

- Lamp type
- Lamp colour
- Gear

Standard versions	Dynamic Lighting versions	Remarks	Preferred selection	EOC
TBS760	TBS770	<ul style="list-style-type: none"> _ Luminaires delivered including lamps _ Standard versions are delivered without diffuser (ND) _ PMMA micro-lens optic (AC-MLO) _ Recessed housing made of zinc-coated steel _ Polycarbonate micro-lens optic for EL3 (PC-MLO) _ All luminaires are equipped with Wieland connector _ Dedicated versions available for air handling (TBN types) _ Optional: Luminaires based on 625 module size (TBS761/771) <p>Accessories:</p> <ul style="list-style-type: none"> _ Ceiling bracket set for mounting in concealed ceiling grids, ZBS300 _ Commissioning tool for Omnisense-enabled luminaires, IRT8099/00 _ Remote control for IRT7090/00 _ Control kit including all components for dynamic ambience, KIT7091 _ Separate controller for dynamic ambience, LRCS140/71 	Standard versions	
2 x TL5	3 x TL5		TBS760 2x28W/840 HFP ND AC-MLO	75696700
28 W, 35 W, 49 W, 54 W, 80 W	49 W, 54 W		TBS760 2x35W/840 HFP ND AC-MLO	75700100
840, 830, 827	1 x 827 and 2 x 865		TBS760 4x14W/840 HFP ND AC-MLO	75710000
HFR, HFR, HFD, HFR-T	HFD		Dynamic Lighting versions	
Omnisense (OS)	Colour variation controller (CVC)		TBS770 3x54W/827/865 HFD AC-MLO	74772900
3-hours (EL3)	3-hours (EL3)		TBS770 3x54W/827/865 HFD AC-MLO CVC	74773600
CCE (cord 2m, CEE7 plug)	CCE (cord 2m, CEE7 plug)		Accessories	
FU	FU		Ceiling bracket set ZBS300 CB	59814799
SC	SC		Commissioning tool IRT8099/00	51889300
			Remote control IRT7090/00	51885500
			Control kit KIT7091	51920399
			Controller LRCS140/71	51892200
TBS760	TBS770	<ul style="list-style-type: none"> _ Commissioning tool for Omnisense-enabled luminaires, IRT8099/00 _ Remote control for IRT7090/00 _ Control kit including all components for dynamic ambience, KIT7091 _ Separate controller for dynamic ambience, LRCS140/71 		
4 x TL5	6 x TL5			
14 W, 24 W	14 W			
840, 830, 827	2 x 827 and 4 x 865			
HFR, HFR, HFD, HFR-T	HFD			
Omnisense (OS)	Colour variation controller (CVC)			
3-hours (EL3)	3-hours (EL3)			
CCE (cord 2m, CEE7 plug)	CCE (cord 2m, CEE7 plug)			
FU	FU			
SC	SC			

FFS760 (PL-L lamps)	n. a.	<ul style="list-style-type: none"> _ Luminaires delivered including lamps _ Luminaire includes electrical wire (metal design, 600 cm) and plug _ Polycarbonate micro-lens optic (PC-MLO) _ Custom solutions available on request 	FFS760 3xPL-L55W/840 HFP PC-MLO	75035400
TFS760 (TL5 lamps)				
3 x 55 W, 3 x 80 W				
4 x 24 W				
840, 830				
HFR, HFR, HFD, HFR-T				

IP20

TWS760	n. a.	<ul style="list-style-type: none"> _ Luminaires delivered including lamps _ Polycarbonate micro-lens optic (PC-MLO) _ Custom solutions available on request _ Decorative aura of light on the wall 	TWS760 2xTL5-14W/840 HFP PC-MLO	75039200
2xTL5-14 W				
840, 830				
HFR, HFR, HFD				

IP20

Savio

More information:

www.savio.philips.com

www.dynamiclighting.philips.com

Data subject to change

Printed in The Netherlands 4-2005

3222 635 5209 I

Concept + Design: jung und pfeffer, Bremen | Amsterdam

