

SLI SYLVANIA



2006

INDUSTRIAL & COMMERCIAL LIGHTING

SYLVANIA

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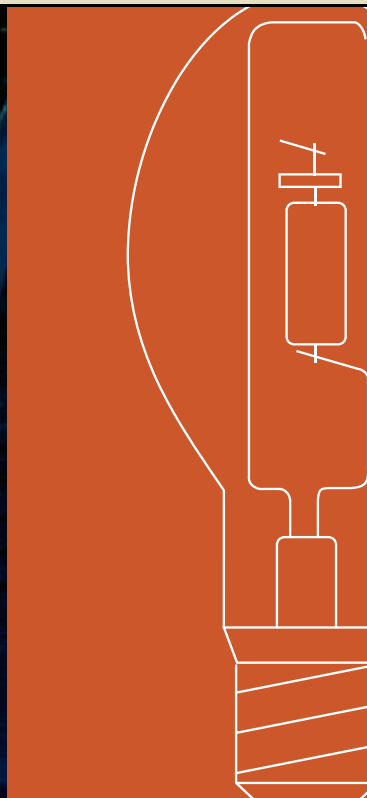
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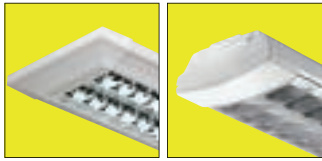
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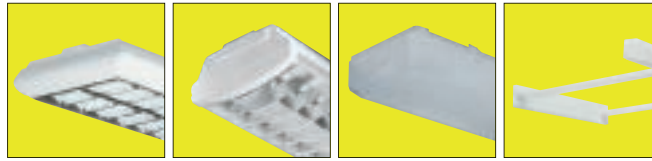
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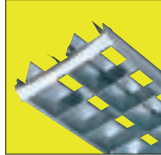
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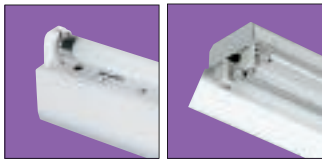
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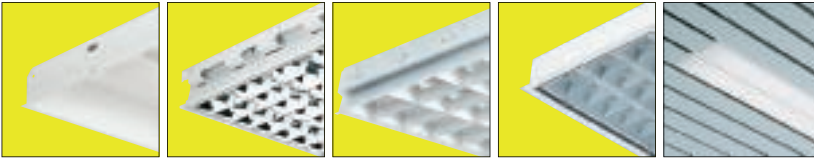
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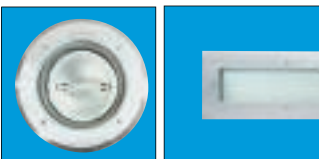
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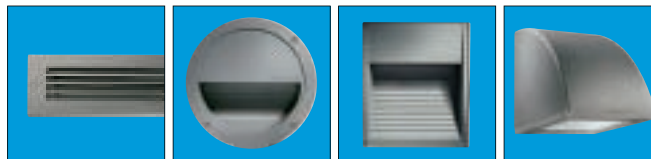
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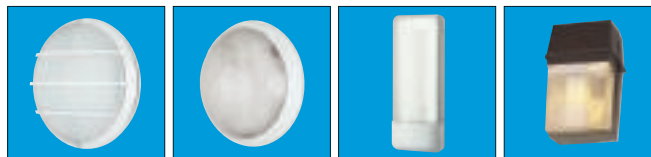
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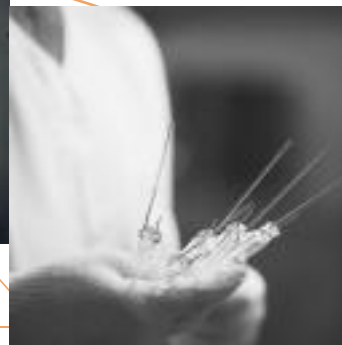
SLI SYLVANIA

The Creation
of light by
innovation, that's
our business.



- > **SLI Sylvania** is part of the US based SLI-LLC, one of the largest integrated lighting companies in the world.
- > **Total sales of SLI-LLC** for 2005 for its general and miniature lighting divisions were in excess of 750 million Euros.
- > **SLI-LLC** has sales and manufacturing operations for general and miniature lighting in North and South America, Europe, the Middle East, Africa and Asia.
- > **SLI Sylvania** is responsible for general lighting in the European, American, Latin American, Middle Eastern, African and Asian arenas.
- > **SLI Sylvania** is the owner of well-known, established lighting brands, including 'Sylvania', Concord:marlin, Lumiance, Sylvania:linolite and Claude.
- > **Total sales of SLI Sylvania** for 2005 were in excess of 460 million Euros.
- > **Lamps and fixtures** manufactured by **SLI Sylvania** are principally sold through our trade partners and distributors.
- > **The technological base of SLI Sylvania** is concentrated in competency centres based in Belgium, France, Germany, the Netherlands and the United Kingdom.
- > **All SLI Sylvania products** are made to recognized international standards of quality assurance and environmental safety, to satisfy the demand for security, comfort and lasting performance.
- > **SLI Sylvania** employs more than 4300 people, working on the development of first class lighting solutions.

*The Sylvania brand name is owned worldwide for general lighting by SLI Sylvania, apart for Australia, Canada, Mexico, New Zealand, Puerto Rico and the USA.



■ SLI Sylvania - Sales Locations

SLI Sylvania has direct sales offices in 17 European countries, in the Americas, the Middle East and Asia.

EUROPE - Austria Vienna - Benelux Antwerp - Czech Republic Prague - Finland Helsinki - France Paris - Germany Erlangen - Greece Athens - Italy Milan - Norway Oslo - Portugal Lisboa - Russia Moscow - Slovakia Modra - Spain Madrid - Sweden Stockholm - Switzerland Meyrin - UK Newhaven & Shipley

NORTH AMERICA - USA Mullins & Ft. Lauderdale

LATIN AMERICA - Argentina Buenos Aires - Brazil Sao Paulo - Colombia Bogota - Costa Rica San Jose - Ecuador Quito - El Salvador San Salvador - Guatemala Guatemala City - Mexico Mexico City - Panama Panama City - Venezuela Guatire

MIDDLE EAST - United Arab Emirates Dubai

ASIA - China Guangzhou & Hong Kong - Thailand Bangkok - Taiwan Taipei.

figures



■ SLI Sylvania - Manufacturing & Competency Centres

The technological base of SLI Sylvania is concentrated in competency centres based in Belgium, France, Germany, the Netherlands and the UK.

Newhaven, U.K. - Concord:marlin, architectural lighting fixtures

Haarlem, the Netherlands - Lumiance, architectural lighting fixtures

St. Etienne, France - Sylvania, industrial & commercial lighting fixtures

Tienen, Belgium - Sylvania, HID, halogen & LED lamps

Erlangen, Germany - Sylvania, linear fluorescent lamps

Shipley, U.K. - Sylvania, compact fluorescent lamps

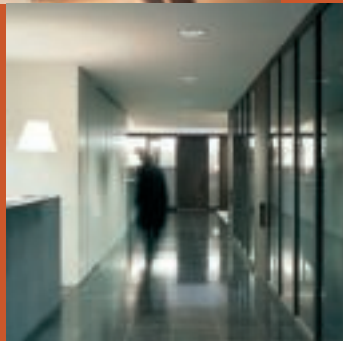
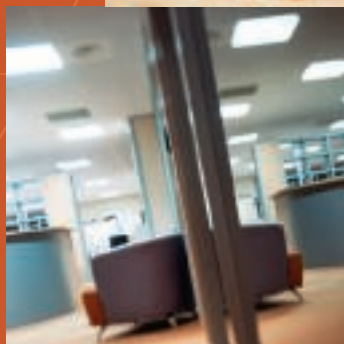
Kairouan, Tunisia - Sylvania, various lamps manufacturing

Sao Paulo, Brazil - Sylvania, HID lamps

Vinhedo, Brazil - glass manufacturing

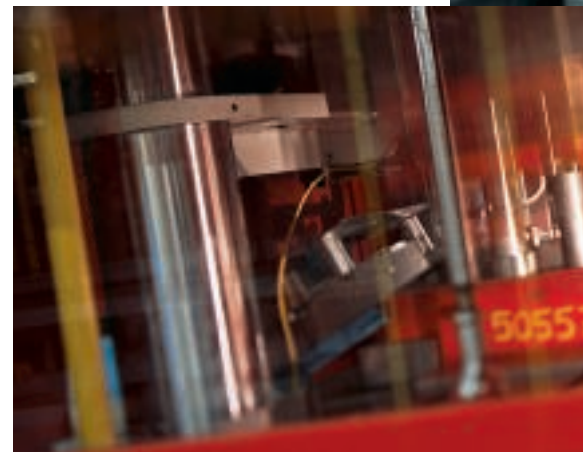
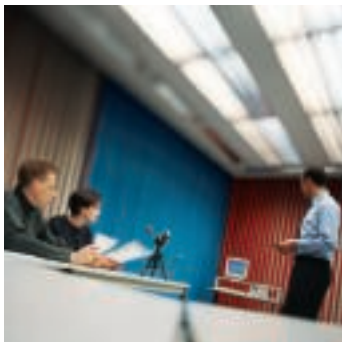
Alajuela, Costa Rica - Sylvania, starters & industrial/commercial fixtures

Bogota, Colombia - Sylvania, incandescent lamps



SYLVANIA

International centre of lighting competency



[Saint Etienne

SLI created the Saint-Etienne Centre of Lighting Competency for Industrial and Commercial Luminaires. This brings together Design, Marketing and Production facilities in a focused and coordinated environment.

The objective is to achieve the implementation of new product developments quickly and efficiently for our customers benefit.

[The Lighting Centre

is available to train and inform our employees and our customers and has comprehensive facilities which include a Lighting Laboratory, Meeting Areas and various lighting systems to enable the demonstration of:

- > Characteristics of alternative light sources.
- > Louvers classification.
- > Performance of Electrical components Performance.
- > Product application Simulation.
- > Product installations with moving ceilings.
- > New products and applications.

[The Laboratory

is essential to the development of innovative new products. Design and Development of high performance patented Optics such as BESS are achieved and tested using state of the art equipment.

The laboratory is Authorised to conduct tests and measurements on products to ensure full compliance to European Standards and approvals.

Bureau Veritas Quality International (BVQI)

has certified that the quality assurance of Saint-Etienne Competency Centre, Design and Manufacturing is in accordance with the requirements of the quality standard

NF EN ISO 9001 V2000 and ISO 14001 V2004.

Sylvania Commercial and Industrial lighting

[The Production Centre

The International manufacturing centre at Saint Etienne is at the forefront of production technology

- > Technical Innovation
- > Precision Performance
 - > High Quality
 - > Flexibility
- > Speed of Response
- > Competitive Prices

The manufacturing facilities at Saint-Etienne are at the forefront of the latest production techniques. Our highly trained and motivated personnel are complemented by machinery equipped with the very latest technology and advanced CAD systems.

Automated Production machinery, Painting, Wiring and 100% Testing facilities ensure consistent quality and reliability.

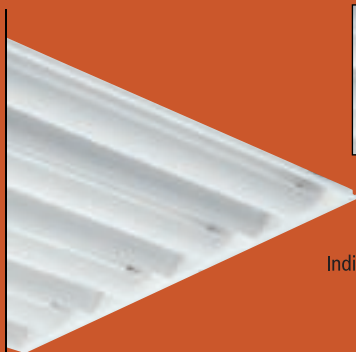
The international focus and flexibility of the factory enables it to respond rapidly to the different technical specifications of our customers.

[Custom Products

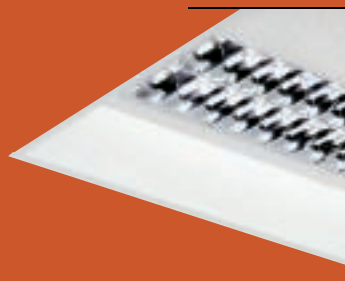
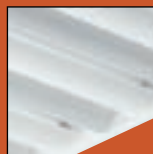
An important part of our business. We can adapt our existing product lines or collaborate with Lighting Designers and Engineers providing custom designed lighting solutions. Our Technical Ability, Flexibility and Speed of response is the value proposition we offer our customers.



> Capella
Modular extra-flat
offering different finishing.



> Merak
Indirect version using
T5 lamps.



> Equilibro Bess
How to combine
comfort indirect luminaire
using T5 lamps and Bess 4
optic.



> Alphard
Extra-flat T5 pendant
using sheet steel specially
coated, using circular
light distribution with
CLASS PA optic.

The Creation
of light by innovation,
That's our business.

SLI opens new

LIGHT & effect

Centre near



SLI is proud to announce the opening of a brand-new educational and demonstration facility for both clients and staff-the **LIGHT & effect** Centre. Located within SLI's principal European distribution centre at Le Plessis Belleville, north of Paris and close to Charles de Gaulle airport, the new facility is well positioned geographically to serve SLI's constituent European markets.



The **LIGHT & effect** Centre measures around 700 square metres and contains a modern, comfortable café-bar with state-of-the-art projection screens, a lecture room and a lighting exhibition area. Later in 2006 it will be equipped with a lighting effects demonstration suite. The exhibition and display area will contain a constantly changing selection of lighting products from all SLI's constituent brands – from May 2006, for example, the centre will temporarily house a re-creation of the company's extensive exhibition stand from Light & Building in Frankfurt.



Paris



In the long term, the facility will be used for lighting demonstrations, lectures, presentations, seminars and training courses. It will be open to all European lighting practitioners, as well as lighting and architecture students – and will be used to entertain clients and other lighting specifiers, as well as serving a fully equipped training base for staff from all SLI's companies across Europe.



Sylvania New website

Summer 2006 sees the launch of the new Sylvania website www.sylvania-lighting.com.

This website will have a completely new look and feel, concentrating on easy to use navigation and keeping you updated and informed about;

- Latest news
- New products
- Sylvania product ranges
- Up to date catalogues and brochure downloads

The website will also have a complete online product catalogue which can be searched by browsing through the product categories and also by application type or lamp category.

An advanced parametric search allows users to narrow down each search to the exact products that apply to their needs. A full PDF datasheet can be downloaded or printed for each individual product, providing complete specification details.

At the launch, the website will be available in English language with other languages added in the following months.



Lighting control



(Industry Standard Protocols

There are 2 ways of achieving control for the above purposes - one analogue and one digital. These are set down as industry standards and are the means of communicating lighting control information between components.

(Analogue

1-10V analogue regulated technology

These ballasts only incorporate a dimming circuit. Therefore, with this system there is no switching, just regulation of the lamp power - typically between 10-100 depending on lamp or fixture type. On/off control requires the addition of an on/off switch within the circuit.

Changes in light level tend to have a non-linear appearance to the human eye when the dimming is adjusted. The maximum number of ballasts on a circuit is dependent upon the total control circuit current the potentiometer (dimmer) capacity. Any change to the system may require the system to be re-wired.

(Digital

DALI - Digital addressable lighting interface

DALI ballasts incorporate an on/off switch along with a smart chip for data storage and communication. Regulation is through the control of the lamp current.

Additionally DALI can provide:

- > Function checks of ballasts and lamps in each fixture from a central position
- > Storage of pre-programmed information in the ballast (e.g. pre-set illumination levels or fixture grouping)

Changes in light level tend to have a linear appearance when the dimmer is adjusted.

With DALI, there is a potential for:

- > A maximum of 64 ballasts per system
- > A maximum of 16 groups within a system
- > A maximum of 16 scenes programmed into a ballast, within a system

Changes to the system can be achieved by simply reprogramming the ballasts in the system.



European standards & directives initiated new targets in term of energy control, energy saving, thermal issues to consider...
e.g. RT 2000

Main reasons to really consider lighting control equipments are,

- > Energy saving
- > Long term cost saving
- > Higher user comfort
- > Flexibility
- > Scene-setting in areas of multiple uses

[Communication

Communication with these systems can take place in a number of ways. Typically these are:

- > IR - infrared signal, usually a hand-held controller
- > RFI - radio signal, wall panels, hand-held units or via a transmitter within a sensing device (light/time/presence)
- > Hard-wired wall panels
- > Central processing unit of a building management system

[Control

Local control through switching or brightness adjustment to provide individual user satisfaction and comfort is usually achieved using wall controls or hand-held devices.

Grouping is easily achieved with DALI without additional cabling. Also, they can be easily adjusted as area applications change or develop,

Scene-setting in areas of multiple uses this reduces running costs by:

- > using only those fixtures required at the time
- > By adjusting them to the most appropriate illumination level for the area function at the time.

Building Management Systems (BMS) These use either EIB (European Installation Bus) or LON (Local Operating Network) building bus systems, they can interface with any of the above to create central control for a building.

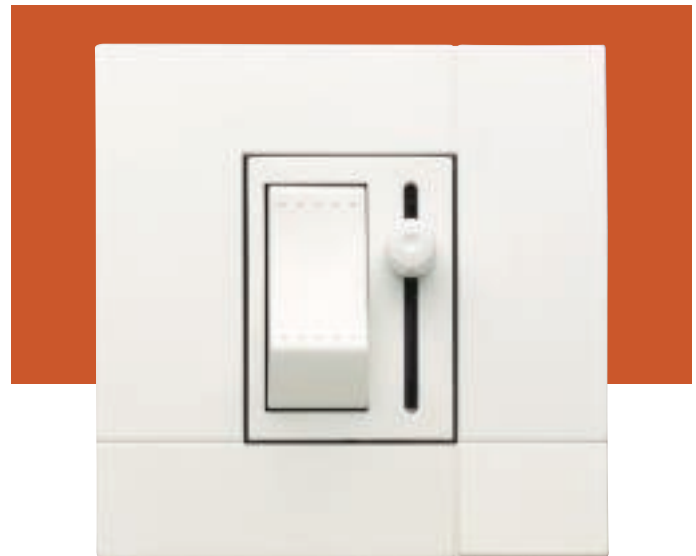
Light sensors (photocells) are used to maintain a set minimum illumination level within an area by either switching or dimming fixtures as the daylight increases or decreases. When coupled with PIR, energy savings of up to 50 can be achieved compared with normal use.

PIR - Passive Infra Red presence detectors provide information to switch fixtures on or off in relation to the presence of people within an area. Again significant savings can be made with this method of light management.

Slider Controller

TK4 Potentiometer

- > Suitable for controlling up to 50 x 1-10V ballasts complying to EN 60 929
- > Switches up to 20 EL-CHFC, EL-sc ballasts, (Use a contactor over this number)
- > Simple to install in standard UK and DIN backboxes
- > Double gang version can take up to 3 independent TK4 modules

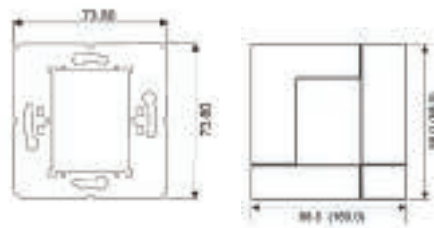
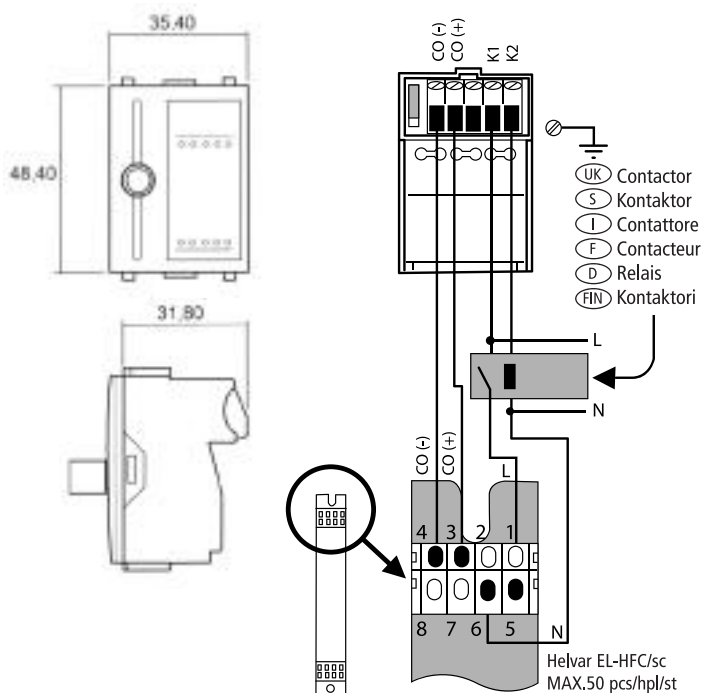


Description

The TK4 is an electronic slider controller for electronic ballasts using 1 - 10V complying to EN 60 929. The TK4 is styled to complement the Helvar DIGIDIM panel range and offers the flexibility of the modular concept, permitting any mix of TK4 and DIGIDIM control panels. Satin white plastic

Technical Data

- > **Switch Rating:** 10A (resistive) VAC
- > **Ambient Temperature:** 0-50°C
- > **IP Rating:** 30
- > **Maximum number of ballasts connected to the TK4 switch:** 20
- > **Maximum number of ballasts connected to 1-10V:** 50



Désignation

TK4 Potentiometer

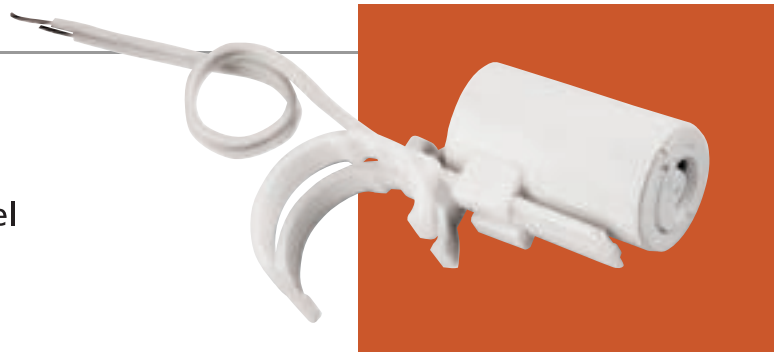
Code

5011711

Light Sensor

M2 Cell

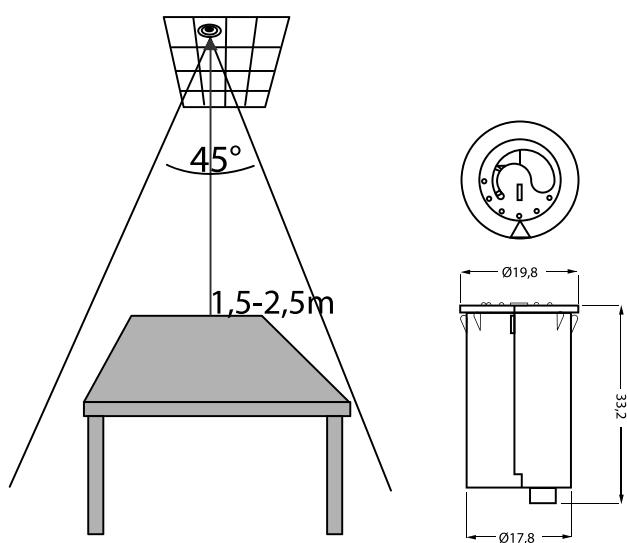
- > Easy installation into the luminaire
- > Simple setting of the constant light level
- > Start up at full level
- > Controls from 1 to 4 electronic ballasts
- > Supply voltage derived from the ballast
- > Response delay approximately 2 minutes
- > Compatible with EL-CHFC and EL-sc



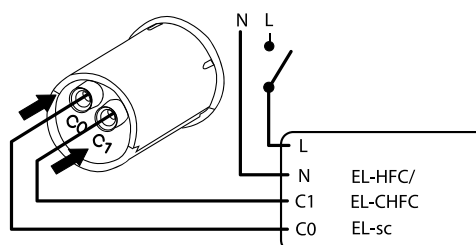
Description

M2 offers simple, automatic daylight control of fluorescent luminaires achieving maximum energy savings in offices, schools, factories, airports and shopping centres.

M2 Cell is a cylindrical light sensor that can be fitted into a luminaire housing. By using the T5 or T8 mounting brackets the M2 can also be retro fitted to existing luminaires. M2 connects directly to the control input of EL-CHFC/EL-sc 1-10V controllable ballasts only.



Light level selected
by means of rotary disc



Désignation	Code
M2 Cell	0011700
Clips ø16	5011712
Clips ø26	0011701

Modular Panels



- > Out of box operation, supplied pre-programmed.
- > Easily re-configured and fully programmable
- > Designed to fit both DIN and UK standard back boxes
- > Double gang version can take up to 3 independent module types

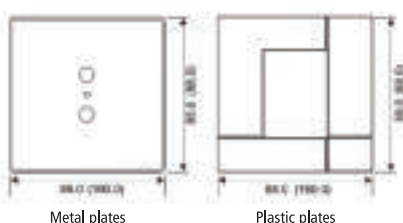
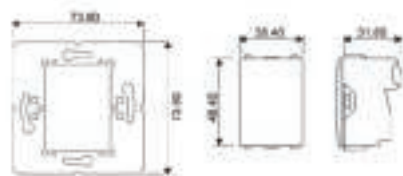
Description

Modular control panels are a fully DALI compatible range of user interfaces that allow basic adjustments to the system. The range includes pushbutton, rotary and slider controls in satin white finishes. Other finishing on request.

Each panel is fitted with an LED indicator and an infrared receiver that gives the option of remote operation using the hand held remote.

The hand held remote also allows additional control of the system's functions and can be used as a programming device on simple systems.

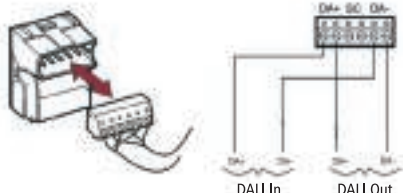
The modular panel concept allows every module type to be ordered in any of four available finishes, in either single or double gang formats.



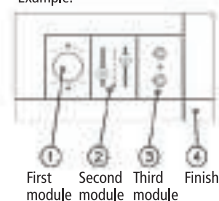
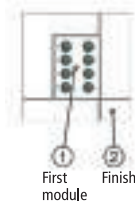
Metal plates

Plastic plates

() = Double gang dimensions



Example:



	Code
Off Panel	0011736
Up/Down Panel	0011737
4 scenes/off + Up/Down	0011739
Rotary Panel	0011740
Single Slider Panel	0011735
Double Panel (8 scenes - Up/Down)	9051057

Multi-Sensor

- > Presence detection has a default time out of 20 minutes and a test mode of 20 seconds.
- > Programmable constant light control for maximum energy efficiency.
- > Complete control using the hand held remote.

Constant Light Coverage without restrictor



Constant Light Coverage with restrictor



Presence detection Coverage



Infra-red Remote Control

- > Controls basic system functions
- > Excellent programming tool for simple lighting systems
- > Up to four lighting groups may be programmed
- > Can be used for setting fade time during scene changes

Additional Features

Remote controls may be individually addressed permitting the use of multiple remotes and receivers within one area, without cross interference. (Receivers must be programmed using DIGIDIM Toolbox software).

The two supplied AAA batteries must be installed before using the remote control



Description

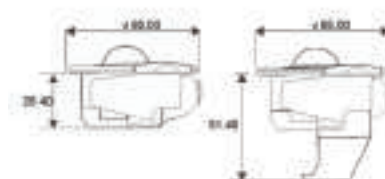
The Multi-sensor is a compact unit containing the necessary sensors to provide energy saving functions when used in a DALI system. It contains a light sensor, a passive infra-red detector (PIR) and an infra-red receiver that allows the multi-sensor to be operated by the hand held remote controller. The PIR enables the system to detect when a room is occupied and the light sensor measures the level of ambient light available. The infra-red receiver and remote controller allow the room occupants to set the required light levels and to carry out basic system programming. The multisensor is designed to push fit into a ceiling or luminaire housing.

Additional Functions

- > Most Multi-sensor functions programmable using the hand held remote, but full system access is available by using the Toolbox software.
- > If multiple linked PIR sensors are connected in one system they will communicate with each other and only switch off the loads when all are non-detecting.

	Code
Multi-sensor	9011728

Dimensions



Connections



Description

The Infra-red Remote Control is a fully DALI compatible unit for use in either controlling or configuring a DALI lighting control system. All DALI control panels and multi-sensor units are fitted with an IR receiver that allows them to be used in conjunction with the remote control unit. The remote control is a hand held unit and is fitted with seven buttons that can be used to control basic system functions such as on/off, raising and lowering the general light level and the selection of four scenes. The seven buttons can also be used in various combinations to provide basic programming functions. This includes creating and adding to groups and setting pre-set levels or scenes.

	Code
Infra-red remote control	0011731

DALI System

1-10V Converter

Description

The DALI 1-10V Converter has been designed to control electronic ballasts which comply with EN 60929 and ballasts.

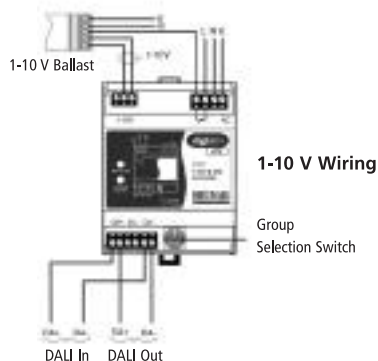
This ensures that DALI systems are compatible with and easily integrated into existing systems.

The converter can switch a maximum of 15 electronic ballasts EL-CHFC/EL-sc.

The analogue 1-10V output and the digital DSI signal can control 50 electronic ballasts.



Connections



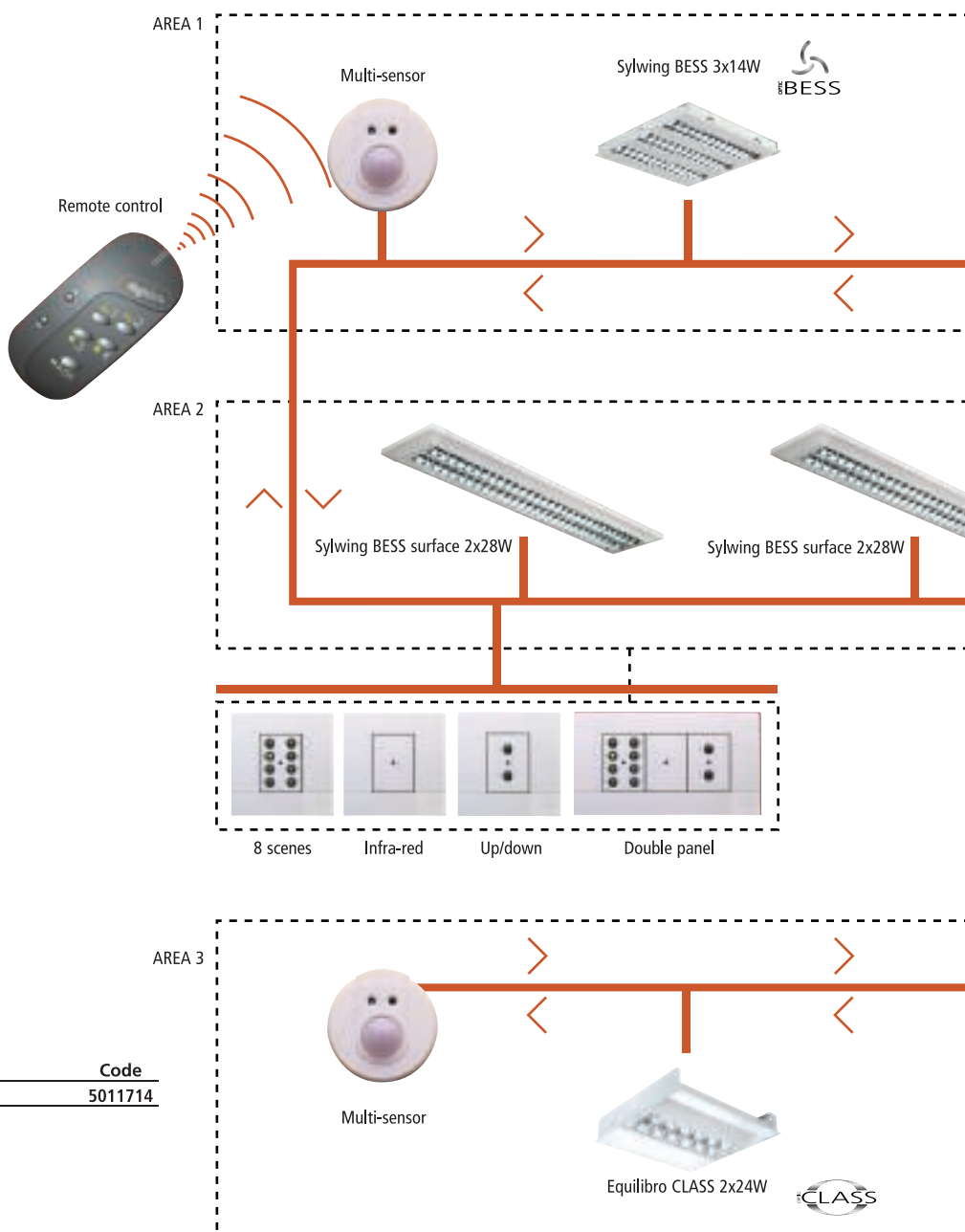
1-10 V Wiring

Group
Selection Switch

1-10V Converter

Code

5011714



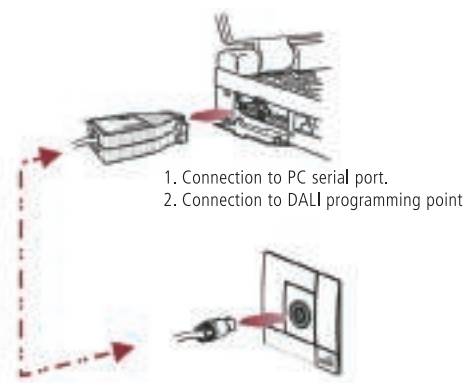
Toolbox Software Package



Description

The Toolbox Software Package is a complete Windows® based application for designing, programming and maintaining a DALI lighting control system. The package contains all software and hardware items necessary to ensure a safe connection to a DALI installation and includes the following items:

- > Toolbox Software CD
- > PC to DALI Interface including 5 m cable
- > Programming point



Code

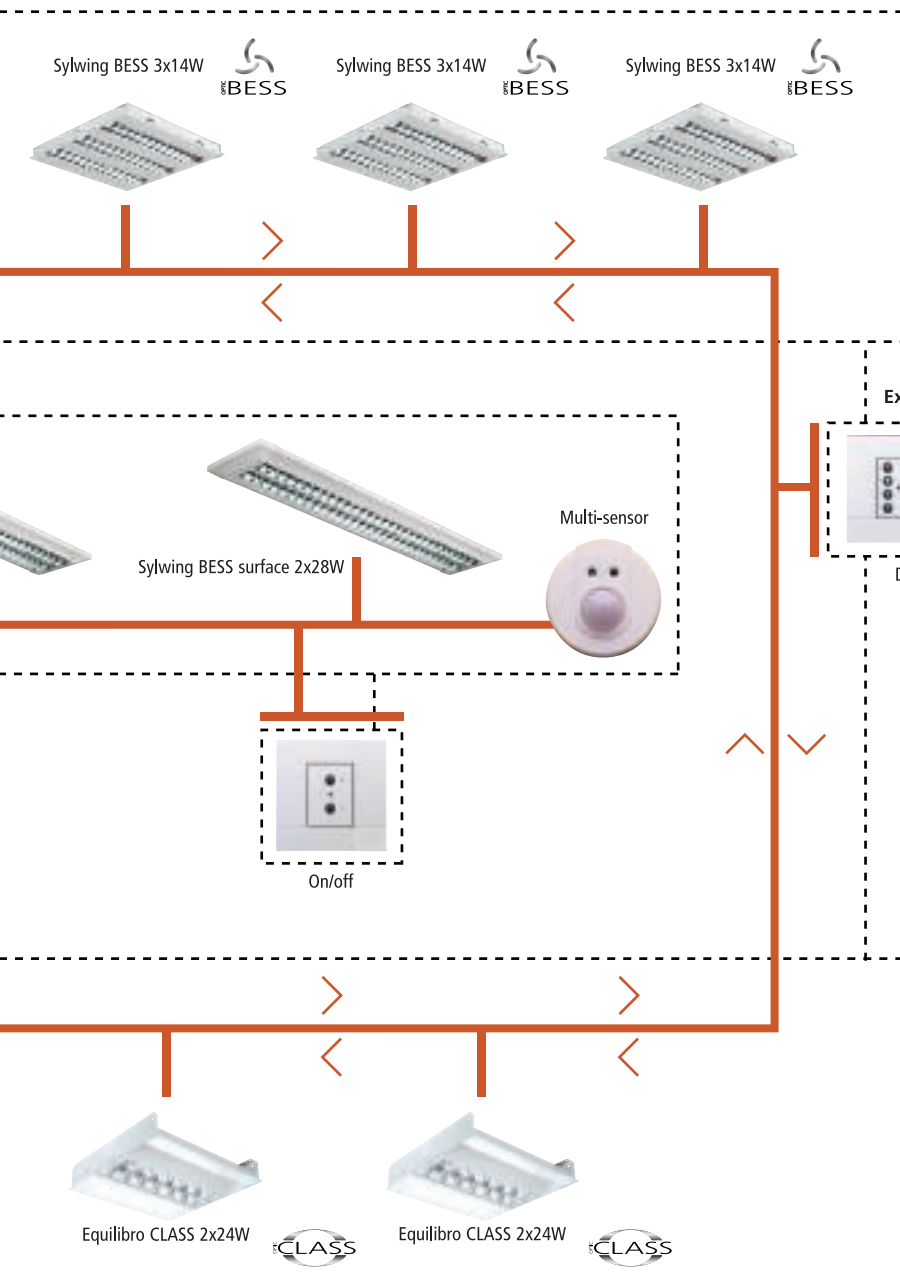
Toolbox software

5011715

Connection plug

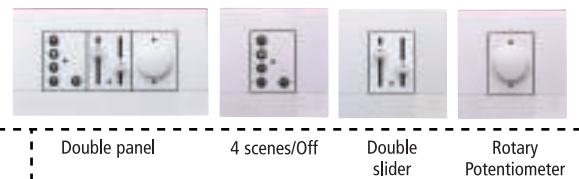
9011279

Ligthing control example...



Because all geographic area has different weather conditions, Offices has its specific orientation, Closed offices or open spaces are often subject to new configurations, Permanent end user comfort is basically the most important think to consider...

Example:



Off-line Functions

(Not connected to a DALI system)

- > Complete system design can be carried out remotely
- > All components can be fully configured
- > System behaviour can be tested before installation of the physical lighting control system
- > All load interfaces, groups and control buttons can be individually named
- > Off-line designs can be saved for later use

On-line Functions

(Connected to a DALI system)

- > Automatically discovers the connected DALI system
- > Ensures all DALI components have a unique short address
- > Automatic resolution of any address conflicts
- > Virtual components can be added that work with the physical network

Serial Interface Dimensions

The Serial Interface is a small, compact in-line interface that permits the connection of a DALI system to the RS232 port on a personal computer. There is full optical isolation between the DALI system and the RS232 input on the computer.

Connections

DALI: Connection to the system can only be made via the programming point
RS232: 9 Pin D Type connector

Commercial Surface

SURFACE MOUNTED & PENDANT LUMINAIRES

T5 ø16MM



24
➤ SYLWING SM & S



34
➤ SYLMASTER T5

T8 ø26MM

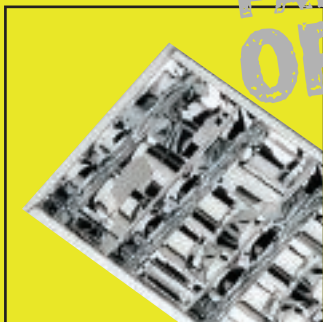


40
➤ SYL-LOUVER

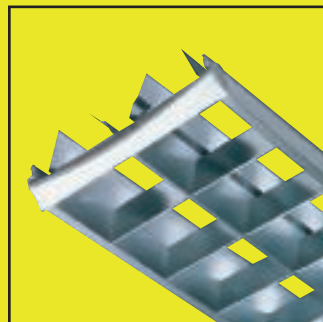


52
➤ SYLMASTER T8

OPTICS



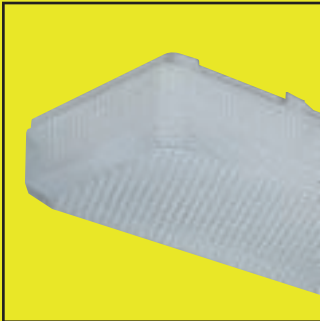
22
➤ T5



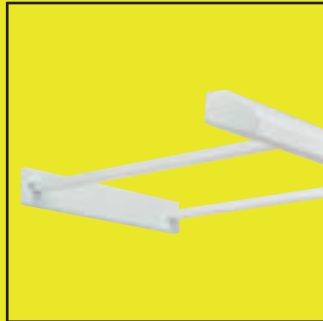
38
➤ T8

PATENTED
OPTICS

& Pendant index



65 - 66
> DFO / SYLDUST



68
> "AS"

T5 Optics

PATENTED
OPTIC

VERY LOW BRIGHTNESS & HIGH PERFORMANCES LOUVRES

Application:

- > Tertiary or commercial sectors
- > Offices with display screens (CAD-CAM)
- > Drawing rooms
- > Monitoring consoles
- > Meeting rooms
- > Banks and retail stores

**BESS 4****Specular tri-dimensional optic**

- > $L < 200 \text{ cd/m}^2$ for $\gamma = 65^\circ$ in all C planes
- > LOR up to 84%

**BESS 8****Semi-Specular tri-dimensional optic**

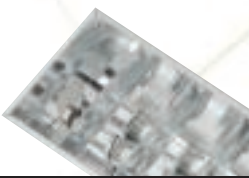
- > $L < 200 \text{ cd/m}^2$ for $\gamma = 65^\circ$ in all C planes
- > LOR up to 83%

**BESS 5****Satin tri-dimensional optic**

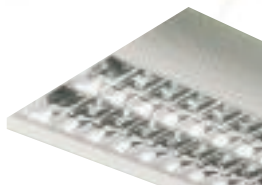
- > $L < 500 \text{ cd/m}^2$ for $\gamma = 65^\circ$ in all C planes
- > LOR up to 83%

**BESS 12****Brilliant aluminium tri-dimensional optic**

- > A BESS 4 good alternative where lower performances are required
- > LOR = 68%.

**BESS 20****Satin aluminium tri-dimensional optic**

- > A BESS 8 or 5 alternative
- > LOR = 66%.



Equilibro Bess 4 diffuser



WALL WASHER REFLECTOR

Application:

- > Class rooms
- > Meeting rooms
- > Wall washer in corridors or other displays

**ASYMMETRICAL**

- > Aluminium asymmetrical reflector designed for T5 lamps.



EXCELLENT LIGHT DISTRIBUTION UNIFORMITY & PERFORMANCES LOUVRES

Application:

- > Tertiary or commercial sector, offices
- > Drawing rooms
- > Classrooms
- > Halls, corridors
- > Meeting rooms
- > Banks and retail stores



CLASS PA Cylindrical lamellae and longitudinal mirrors in aluminium.

- > Visual Quality Class A for illuminance $E = 500 \text{ lux}$
- > LOR up to 69%



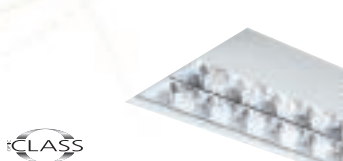
CLASS HR White coated steel cylindrical Lamellae and aluminium longitudinal mirrors.

- > Visual Quality Class A for illuminance $E = 500 \text{ lux}$
- > LOR up to 65%



CLASS LS Aluminium profiled cylindrical Lamellae and aluminium longitudinal mirrors.

- > Visual Quality Class A for illuminance $E = 500 \text{ lux}$
- > LOR up to 64%



Equilibrio Class Diffuser

(Body

A 52 mm rigid white or silver (RAL 9006) coated sheet steel body, reinforced with a fitted steel brace ended by an injected moulded end cap to finalise line style. Completely flat top, offering a technical design in Direct version. BESS or CLASS optic fixed in place by 4 metallic springs allowing hanging during maintenance and ensuring a continuous earth connection. Individual, in-line, L,T or X structures available.

In suspended version, 1, 2 or 3 lamps for Direct & Direct / indirect lighting, a perfect fluid line !

(Surface Mounted Installation & Maintenance

Two separate metallic brackets fix SYLWING SM on the ceiling through two holes for Ø6 mm screws. Mains supply through automatic terminal block.

1. Fix the two brackets on the ceiling with Ø6 mm screws.
2. Install SYLWING SM on them, and make the supply connection.
3. Put end caps on, ... SYLWING SM is ready !

Two plastic brackets (10 mm high) included in all SM versions for independent installation

(Suspended Installation & Maintenance

Ceiling fixing through two holes for Ø6 mm screws. Two automatic Y suspension cables (optional) easy to install through the four key holes on the top of the fixture, the installation height is easily adjustable. Mains supply through automatic terminal block.

1. Install the VARIOCLIP suspension kit in the ceiling and in the SYLWING S end fixing holes.
2. Make the supply connection.
3. Fit end caps, ...and it's done !



SYLWING SM & S



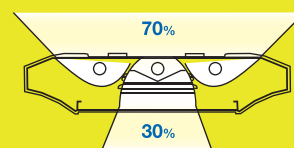
A new vision of T5 (Ø 16 mm lamp) lighting, **SYLWING SMS** has been designed to accompany BESS & CLASS optics, to get the best in terms of louvre, and also to offer a brand new style in lighting.

SYLWING SMS is a technical luminaire, combining style, performance and slim design.

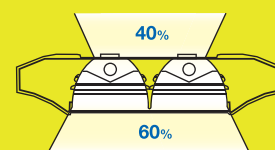
- > High performance : BESS or CLASS optic equipped
- > Fluid lines
- > Rapid installation
- > Wide range to cover most applications
- > Delivered as a complete equipped fixture

A luminaire which can be installed without removing either lamps or louvre.

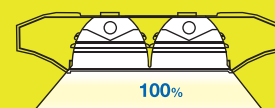
- > 830 or 840 lamps included.
- > A "peel-off" film protects louvre during installation.
- > SYLWING connections are located in product end part - except 4x14.



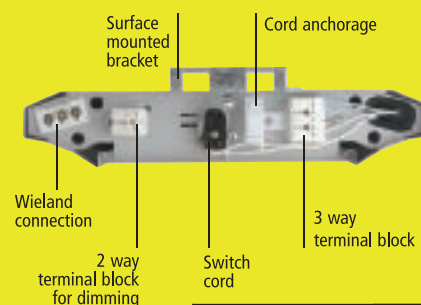
Suspended version



Suspended version



Surface mounted & suspended versions



(Photometric data

Lamp light output and luminaires performances are given at **25°C**.

(Accessories

- > In line, L, T, X mounting sets.
- > In line set mono.
- > In line set duo.
- > Through wiring 3x1.5 mm² or 5x1.5 mm² cable.
- > Suspension kit.

(Electrical equipment

- > High frequency (A2) or 1-10 V dimmable ballast 220-240V/50-60Hz.
- > Automatic 3 or 5 way terminal block.
- > 4 Ø 15 mm cable entries.
- > Cord anchorage on all versions.
- > Switch cord versions.

On request :

- > Wieland connections.
- > Emergency versions.

Sylwing SM & S BESS 4



**LAMP
INCLUDED**



- > High performances.
- > Very low brightness louvre.
- > Rapid installation.
- > Delivered as a complete equipped fixture.



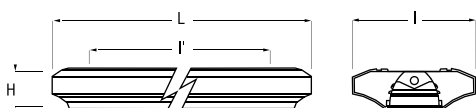
Optic description

Specular Visual 60,
Tri-dimensional optic.

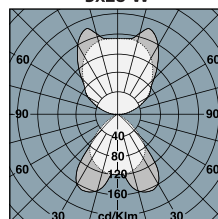
Luxline Plus FHE Ø16 14/28/35 W-G5	
Flux at 25°C	
14 W = 1230 lm	
28 W = 2640 lm	
35 W = 3300 lm	

dimensions (mm)

lamp	L	l'	l	H	Heaviest weight (kg)	
					SM	S
1x28	1305	1184	197	52	3.3	-
2x28	1305	1184	282	52	4.4	4
1x35	1605	1484	197	52	4	-
2x35	1605	1484	282	52	5.4	4.9
3x28	1605	1484	282	52	5.5	5.5
4x14	675	NC	675	52	4.6	-

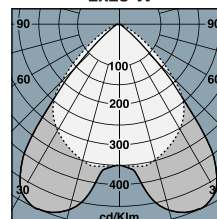


**SYLWING S BESS 4
3x28 W**



— Transversal plane
- - - Longitudinal plane

**SYLWING SM BESS 4
2x28 W**



— Transversal plane
- - - Longitudinal plane

Sylwing S BESS 4

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°...C90° planes
2x28	90%	0.60B+0.30T	67%	L< 200 cd/m² at γ=65°
2x35	90%	0.60B+0.30T	67%	L< 200 cd/m² at γ=65°
3x28	75%	0.28B+0.47T	37%	L< 200 cd/m² at γ=65°

Sylwing SM BESS 4

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°...C90° planes
1x28	84%	0.84B	100%	L< 200 cd/m² at γ=65°
2x28	84%	0.84B	100%	L< 200 cd/m² at γ=65°
1x35	84%	0.84B	100%	L< 200 cd/m² at γ=65°
2x35	84%	0.84B	100%	L< 200 cd/m² at γ=65°
4x14	82%	0.82B	100%	L< 200 cd/m² at γ=65°

Applications

Offices with display screens, drawing rooms, meeting rooms, school premises, bank counters, high buildings, public buildings.

SUSPENDED (S)	WHITE		SILVER	
	Emergency 3 hours		Emergency 3 hours	
830 Lamp				
Sylwing S 2x28 W 830	0054751	0054514	0054767	0054516
Sylwing S 3x28 W 830	0054752		0054768	
Sylwing S 2x35 W 830	0054755	0054515	0054771	0054517
830 Lamp + Pull switch				
Sylwing S 2x28 W 830+C	0054905		0054911	
Sylwing S 3x28 W 830+C	0054906		0054912	
Sylwing S 2x35 W 830+C	0054907		0054913	
830 Lamp dimmable 1-10V				
Sylwing S 2x28 W 830 D	0054783	0054522	0054815	0054524
Sylwing S 3x28 W 830 D	0054784		0054816	
Sylwing S 2x35 W 830 D	0054787	0054523	0054819	0054525
830 Lamp dimmable 1-10V + Pull switch				
Sylwing S 2x28 W 830 D+C	0054917		0054923	
Sylwing S 3x28 W 830 D+C	0054918		0054924	
Sylwing S 2x35 W 830 D+C	0054919		0054925	
840 Lamp				
Sylwing S 2x28 W 840	0054831		0054847	
Sylwing S 3x28 W 840	0054832		0054848	
Sylwing S 2x35 W 840	0054835		0054851	
840 Lamp dimmable 1-10V				
Sylwing S 2x28 W 840 D	0054863		0054879	
Sylwing S 3x28 W 840 D	0054864		0054880	
Sylwing S 2x35 W 840 D	0054867		0054883	

SURFACE MOUNTED (SM)	WHITE		SILVER	
830 Lamp				
Sylwing SM 1x28 W 830	0054749		0054765	
Sylwing SM 2x28 W 830	0054750	0054510	0054766	0054512
Sylwing SM 1x35 W 830	0054753		0054769	
Sylwing SM 2x35 W 830	0054754	0054511	0054770	0054513
Sylwing SM 4x14 W 830	0054756		0054772	
830 Lamp dimmable 1-10V				
Sylwing SM 1x28 W 830 D	0054781		0054813	
Sylwing SM 2x28 W 830 D	0054782	0054518	0054814	0054520
Sylwing SM 1x35 W 830 D	0054785		0054817	
Sylwing SM 2x35 W 830 D	0054786	0054519	0054818	0054521
Sylwing SM 4x14 W 830	0054788		0054820	
840 Lamp				
Sylwing SM 1x28 W 840	0054829		0054845	
Sylwing SM 2x28 W 840	0054830		0054846	
Sylwing SM 1x35 W 840	0054833		0054849	
Sylwing SM 2x35 W 840	0054834		0054850	
Sylwing SM 4x14 W 840	0054836		0054852	
840 Lamp dimmable 1-10V				
Sylwing SM 1x28 W 840 D	0054861		0054877	
Sylwing SM 2x28 W 840 D	0054862		0054878	
Sylwing SM 1x35 W 840 D	0054865		0054881	
Sylwing SM 2x35 W 840 D	0054866		0054882	
Sylwing SM 4x14 W 840 D	0054868		0054884	

Accessories see page 33.

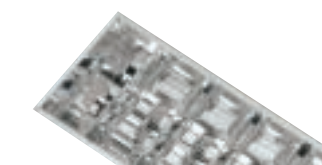
Sylwing SM & S BESS 8



**LAMP
INCLUDED**



- > High performances.
- > Very low brightness louvre.
- > Rapid installation.
- > Delivered as a complete equipped fixture.



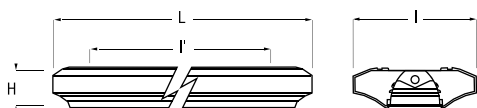
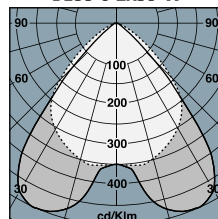
Optic description

Semi-specular Visual 60
tri-dimensional optic

Luxline Plus FHE Ø16 14/28/35 W-G5	
Flux at 25°C	
14 W = 1230 lm	
28 W = 2640 lm	
35 W = 3300 lm	

dimensions (mm)

lamp	L	I'	I	H	Heaviest weight (kg)	
					SM	S
1x28	1305	1184	197	52	3.3	-
2x28	1305	1184	282	52	4.4	4
1x35	1605	1484	197	52	4	-
2x35	1605	1484	282	52	5.4	4.9
3x28	1605	1484	282	52	5.5	5.5
4x14	675	NC	675	52	4.6	-

SYLWING SM
BESS 8 2x35 W

— Transversal plane
--- Longitudinal plane

Sylwing S BESS 8

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°, ... C90° planes
2x28	89%	0.59B+0.30T	66%	L< 200 cd/m² at γ=65°
2x35	89%	0.59B+0.30T	66%	L< 200 cd/m² at γ=65°
3x28	75%	0.28B+0.47T	37%	L< 200 cd/m² at γ=65°

Sylwing SM BESS 8

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°, ... C90° planes
1x28	83%	0.83B	100%	L< 200 cd/m² at γ=65°
2x28	83%	0.83B	100%	L< 200 cd/m² at γ=65°
1x35	83%	0.83B	100%	L< 200 cd/m² at γ=65°
2x35	83%	0.83B	100%	L< 200 cd/m² at γ=65°
4x14	81%	0.81B	100%	L< 200 cd/m² at γ=65°

Applications

Offices with display screens, drawing rooms, meeting rooms, school premises, bank counters, high buildings, public buildings.

SUSPENDED

830 Lamp

	WHITE	SILVER
Sylwing S 2x28 W 830	0054759	0054775
Sylwing S 3x28 W 830	0054760	0054776
Sylwing S 2x35 W 830	0054763	0054779

830 Lamp + Pull switch

	WHITE	SILVER
Sylwing S 2x28 W 830+C	0054908	0054914
Sylwing S 3x28 W 830+C	0054909	0054915
Sylwing S 2x35 W 830+C	0054910	0054916

830 Lamp dimmable 1-10V

	WHITE	SILVER
Sylwing S 2x28 W 830 D	0054807	0054823
Sylwing S 3x28 W 830 D	0054808	0054824
Sylwing S 2x35 W 830 D	0054811	0054827

830 Lamp dimmable 1-10V + Pull switch

	WHITE	SILVER
Sylwing S 2x28 W 830 D+C	0054920	0054926
Sylwing S 3x28 W 830 D+C	0054921	0054927
Sylwing S 2x35 W 830 D+C	0054922	0054928

840 Lamp

	WHITE	SILVER
Sylwing S 2x28 W 840	0054839	0054855
Sylwing S 3x28 W 840	0054840	0054856
Sylwing S 2x35 W 840	0054843	0054859

840 Lamp dimmable 1-10V

	WHITE	SILVER
Sylwing S 2x28 W 840 D	0054871	0054887
Sylwing S 3x28 W 840 D	0054872	0054888
Sylwing S 2x35 W 840 D	0054875	0054891

SURFACE MOUNTED

830 Lamp

	WHITE	SILVER
Sylwing SM 1x28 W 830	0054757	0054773
Sylwing SM 2x28 W 830	0054758	0054774
Sylwing SM 1x35 W 830	0054761	0054777
Sylwing SM 2x35 W 830	0054762	0054778
Sylwing SM 4x14 W 830	0054764	0054780

830 Lamp dimmable 1-10V

	WHITE	SILVER
Sylwing SM 1x28 W 830 D	0054805	0054821
Sylwing SM 2x28 W 830 D	0054806	0054822
Sylwing SM 1x35 W 830 D	0054809	0054825
Sylwing SM 2x35 W 830 D	0054810	0054826
Sylwing SM 4x14 W 830 D	0054812	0054828

840 Lamp

	WHITE	SILVER
Sylwing SM 1x28 W 840	0054837	0054853
Sylwing SM 2x28 W 840	0054838	0054854
Sylwing SM 1x35 W 840	0054841	0054857
Sylwing SM 2x35 W 840	0054842	0054858
Sylwing SM 4x14 W 840	0054844	0054860

840 Lamp dimmable 1-10V

	WHITE	SILVER
Sylwing SM 1x28 W 840 D	0054869	0054885
Sylwing SM 2x28 W 840 D	0054870	0054886
Sylwing SM 1x35 W 840 D	0054873	0054889
Sylwing SM 2x35 W 840 D	0054874	0054890
Sylwing SM 4x14 W 840 D	0054876	0054892

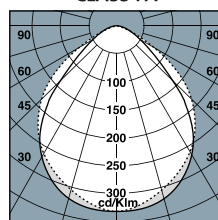
Emergency versions available on request. Please ask your local representative.

Accessories see page 33.

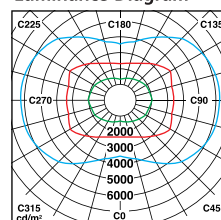
Sylwing SM & S CLASS PA



**LAMP
INCLUDED**

SYLWING SM & S
CLASS PA

Luminance Diagram



— $\gamma=55^\circ$
— $\gamma=65^\circ$
— $\gamma=75^\circ$

— Transversal plane
--- Longitudinal plane



Sylwing S CLASS PA

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
2x28	79%	0.49B+0.30T	62%	A for E=500 lx
2x35	79%	0.49B+0.30T	62%	A for E=500 lx
3x28	70%	0.23B+0.47T	33%	A for E=500 lx

Sylwing SM CLASS PA

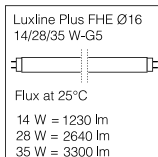
Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
1x28	69%	0.69C	100%	A for E=500 lx
2x28	69%	0.69C	100%	A for E=500 lx
1x35	69%	0.69C	100%	A for E=500 lx
2x35	69%	0.69C	100%	A for E=500 lx
4x14	69%	0.69C	100%	A for E=500 lx

- > New design in louvre.
- > Excellent light distribution uniformity.
- > Good visual comfort.
- > Rapid installation.



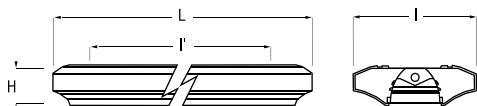
Optic description

Cylindrical lamellae and longitudinal mirrors in aluminium.



dimensions (mm)

lamp	L	l'	l	H	Heaviest weight (kg)	
					SM	S
1x28	1305	1184	197	52	3.3	-
2x28	1305	1184	282	52	4.4	4
1x35	1605	1484	197	52	4	-
2x35	1605	1484	282	52	5.4	4.9
3x28	1605	1484	282	52	5.5	5.5
4x14	675	NC	675	52	4.6	-



Applications

Offices with display screens, drawing rooms, meeting rooms, school premises, bank counters, high buildings, public buildings.

Suspended	WHITE	SILVER
830 Lamp		
Sylwing S 2x28 W 830	0057666	0057669
Sylwing S 3x28 W 830	0057667	0057670
Sylwing S 2x35 W 830	0057668	0057671
830 Lamp + Pull switch		
Sylwing S 2x28 W 830+C	0057672	0057675
Sylwing S 3x28 W 830+C	0057673	0057676
Sylwing S 2x35 W 830+C	0057674	0057677
840 Lamp		
Sylwing S 2x28 W 840	0057678	0057681
Sylwing S 3x28 W 840	0057679	0057682
Sylwing S 2x35 W 840	0057680	0057683

Surface mounted

830 Lamp		
Sylwing SM 1x28 W 830	0057684	0057689
Sylwing SM 2x28 W 830	0057685	0057690
Sylwing SM 1x35 W 830	0057686	0057691
Sylwing SM 2x35 W 830	0057687	0057692
Sylwing SM 4x14 W 830	0057688	0057693
840 Lamp		
Sylwing SM 1x28 W 840	0057694	0057699
Sylwing SM 2x28 W 840	0057695	0057700
Sylwing SM 1x35 W 840	0057696	0057701
Sylwing SM 2x35 W 840	0057697	0057702
Sylwing SM 4x14 W 840	0057698	0057703

1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 33.

Sylwing SM & S CLASS HR



**LAMP
INCLUDED**



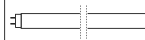
- > New design in louvre.
- > Excellent light distribution uniformity.
- > Good visual comfort.
- > Rapid installation.



Optic description

White coated steel cylindrical lamellae and aluminium longitudinal mirrors.

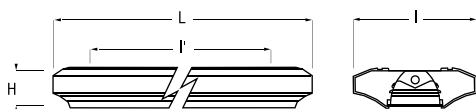
Luxline Plus FHE Ø16
14/28/35 W-G5



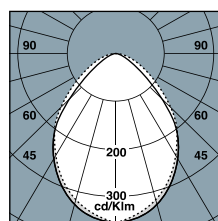
Flux at 25°C
14 W = 1230 lm
28 W = 2640 lm
35 W = 3300 lm

dimensions (mm)

lamp	L	l'	l	H	Heaviest weight (kg)	
					SM	S
1x28	1305	1184	197	52	3.3	-
2x28	1305	1184	282	52	4.4	4
1x35	1605	1484	197	52	4	-
2x35	1605	1484	282	52	5.4	4.9
3x28	1605	1484	282	52	5.5	5.5
4x14	675	NC	675	52	4.6	-

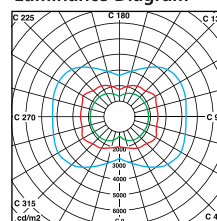


SYLWING SM & S CLASS HR



— Transversal plane
--- Longitudinal plane

Luminance Diagram



γ=55°
γ=65°
γ=75°

Sylwing S CLASS HR

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
2x28	79%	0.46B+0.30T	61%	A for E=500 lx
2x35	76%	0.46B+0.30T	61%	A for E=500 lx
3x28	69%	0.22B+0.47T	32%	A for E=500 lx

Sylwing SM CLASS HR

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
1x28	65%	0.65C	100%	A for E=500 lx
2x28	65%	0.65C	100%	A for E=500 lx
1x35	65%	0.65C	100%	A for E=500 lx
2x35	65%	0.65C	100%	A for E=500 lx
4x14	65%	0.65C	100%	A for E=500 lx

Applications

Offices with display screens, drawing rooms, meeting rooms, school premises, bank counters, high buildings, public buildings.

Suspended

	WHITE	SILVER
830 Lamp		
Sylwing S 2x28 W 830	0057704	0057707
Sylwing S 3x28 W 830	0057705	0057708
Sylwing S 2x35 W 830	0057706	0057709
830 Lamp + Pull switch		
Sylwing S 2x28 W 830+C	0057710	0057713
Sylwing S 3x28 W 830+C	0057711	0057714
Sylwing S 2x35 W 830+C	0057712	0057715
840 Lamp		
Sylwing S 2x28 W 840	0057716	0057719
Sylwing S 3x28 W 840	0057717	0057720
Sylwing S 2x35 W 840	0057718	0057721

Surface mounted

	WHITE	SILVER
830 Lamp		
Sylwing SM 1x28 W 830	0057722	0057727
Sylwing SM 2x28 W 830	0057723	0057728
Sylwing SM 1x35 W 830	0057724	0057729
Sylwing SM 2x35 W 830	0057725	0057730
Sylwing SM 4x14 W 830	0057726	0057731
840 Lamp		
Sylwing SM 1x28 W 840	0057732	0057737
Sylwing SM 2x28 W 840	0057733	0057738
Sylwing SM 1x35 W 840	0057734	0057739
Sylwing SM 2x35 W 840	0057735	0057740
Sylwing SM 4x14 W 840	0057736	0057741

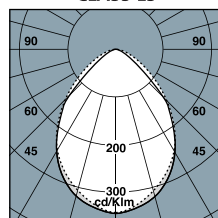
1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 33.

Sylwing SM & S CLASS LS

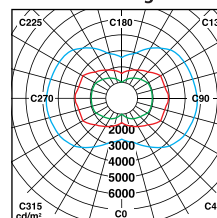


**LAMP
INCLUDED**

SYLWING SM & S
CLASS LS

— Transversal plane
- - - Longitudinal plane

Luminance Diagram



— $\gamma=55^\circ$
— $\gamma=65^\circ$
— $\gamma=75^\circ$



Sylwing S CLASS LS

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
2x28	76%	0.46B+0.30T	61%	A for E=500 lx
2x35	76%	0.46B+0.30T	61%	A for E=500 lx
3x28	68%	0.21B+0.47T	31%	A for E=500 lx

Sylwing SM CLASS LS

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
1x28	64%	0.64C	100%	A for E=500 lx
2x28	64%	0.64C	100%	A for E=500 lx
1x35	64%	0.64C	100%	A for E=500 lx
2x35	64%	0.64C	100%	A for E=500 lx
4x14	64%	0.64C	100%	A for E=500 lx

- > New design in louver.
- > Excellent light distribution uniformity.
- > Good visual comfort.
- > Rapid installation.



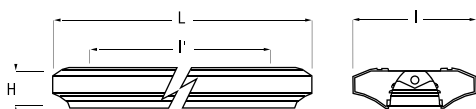
Optic description

Aluminium profiled cylindrical lamellae and aluminium longitudinal mirrors.

Luxline Plus FHE Ø16 14/28/35 W-G5
Flux at 25°C
14 W = 1230 lm
28 W = 2640 lm
35 W = 3300 lm

dimensions (mm)

lamp	L	I'	I	H	Heaviest weight (kg)	
					SM	S
1x28	1305	1184	197	52	3.3	-
2x28	1305	1184	282	52	4.4	4
1x35	1605	1484	197	52	4	-
2x35	1605	1484	282	52	5.4	4.9
3x28	1605	1484	282	52	5.5	5.5
4x14	675	NC	675	52	4.6	-



Applications

Offices with display screens, drawing rooms, meeting rooms, school premises, bank counters, high buildings, public buildings.

Suspended

WHITE

SILVER

	Emergency 3 hours	Emergency 3 hours
830 Lamp		
Sylwing S 2x28 W 830	0057742	0057780
Sylwing S 3x28 W 830	0057743	0057746
Sylwing S 2x35 W 830	0057744	0057781
830 Lamp + Pull switch		
Sylwing S 2x28 W 830+C	0057748	0057751
Sylwing S 3x28 W 830+C	0057749	0057752
Sylwing S 2x35 W 830+C	0057750	0057753
840 Lamp		
Sylwing S 2x28 W 840	0057754	0057757
Sylwing S 3x28 W 840	0057755	0057758
Sylwing S 2x35 W 840	0057756	0057759

Surface mounted

830 Lamp			
Sylwing SM 1x28 W 830	0057760	0057784	0057765
Sylwing SM 2x28 W 830	0057761	0057784	0057766
Sylwing SM 1x35 W 830	0057762		0057767
Sylwing SM 2x35 W 830	0057763	0057785	0057768
Sylwing SM 4x14 W 830	0057764	0057786	0057769
840 Lamp			
Sylwing SM 1x28 W 840	0057770		0057775
Sylwing SM 2x28 W 840	0057771		0057776
Sylwing SM 1x35 W 840	0057772		0057777
Sylwing SM 2x35 W 840	0057773		0057778
Sylwing SM 4x14 W 840	0057774		0057779

1-10V & Emergency versions available on request. Please ask your local representative.

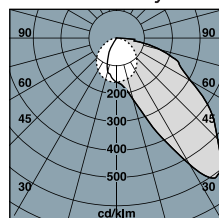
Accessories see page 33.

Sylwing SM Asymmetrical

**LAMP
INCLUDED**



SYLWING SM Asymmetrical



Wattages	LOR
1x28	80%
1x35	80%

- > Low glare.
- > High output.
- > Controlled flux distribution.
- > Rapid installation.

Optic description

Aluminium asymmetrical reflector designed for T5 lamps.

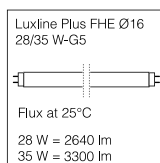
Applications

Specially designed for walls lighting in any tertiary and commercial sector. Class rooms, boards, meeting rooms, wall washer in corridors or other displays, exhibition...

	WHITE	SILVER
830 Lamp		
Sylwing SM 1x28 W 830	0054690	0054694
Sylwing SM 1x35 W 830	0054691	0054695
840 Lamp		
Sylwing SM 1x28 W 840	0054692	0054696
Sylwing SM 1x35 W 840	0054693	0054697

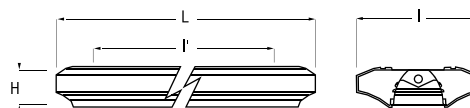
1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 33.

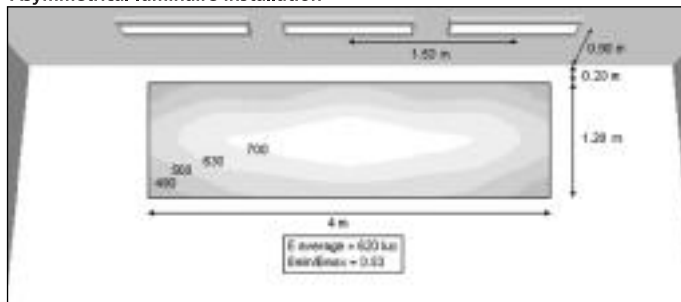


dimensions (mm)

lamp	L	I'	I	H	Heaviest weight (kg)	
					SM	S
1x28	1305	1184	197	52	3.3	-
1x35	1605	1484	197	52	4	-



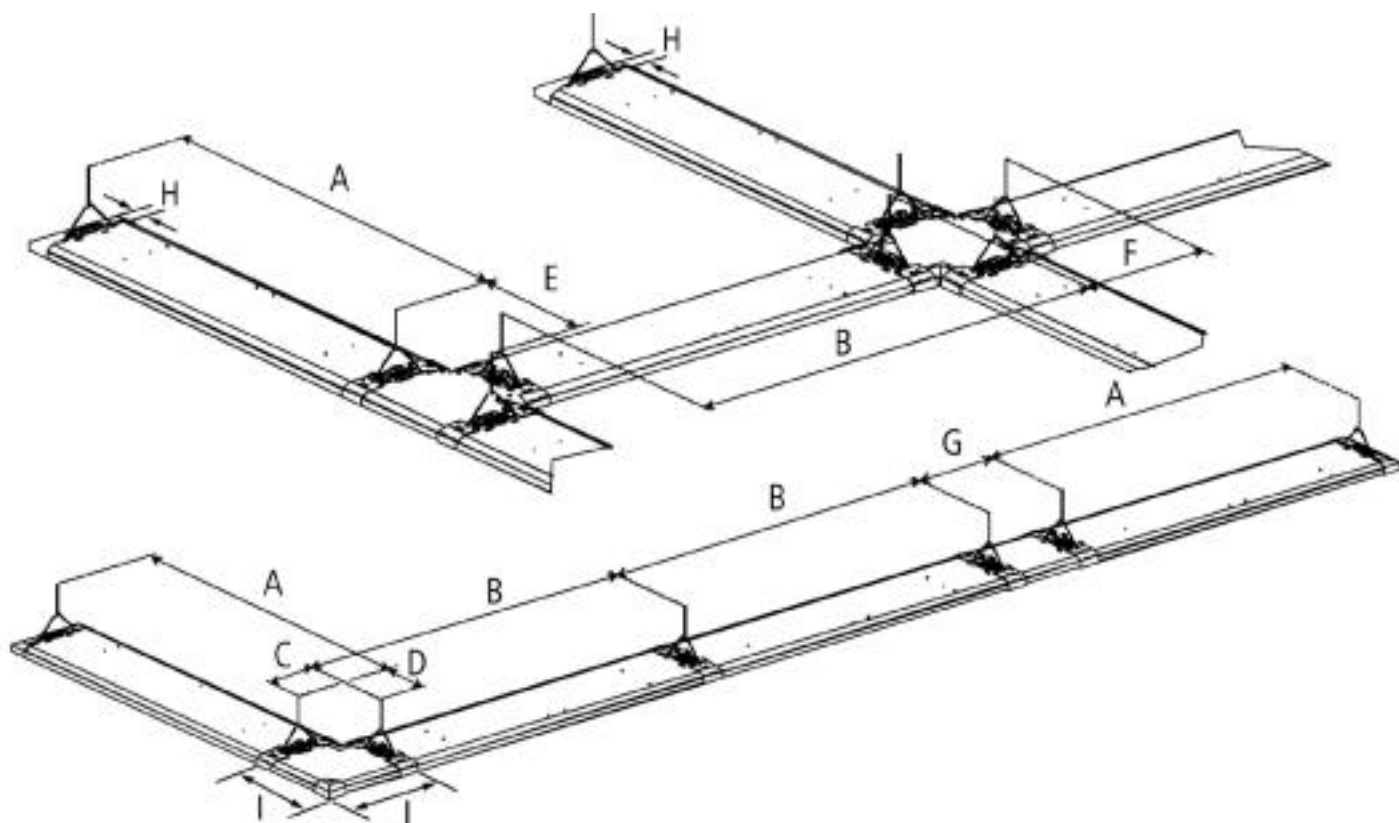
Asymmetrical luminaire installation



Sylwing Connections dimensions

Dimensions (mm)

	A	B	C	D	E	F	G	H	I
2 x 28	1215	1245	188	188	376	376	251	60,5	329
2 x 35	1515	1545	188	188	376	376	251	60,5	329
1 x 28	1215	1245	145	145	291	291	X	60,5	243,5
1 x 35	1515	1545	145	145	291	291	X	60,5	243,5
3 x 28	1215	1245	188	188	376	376	251	60,5	329



Through Wiring

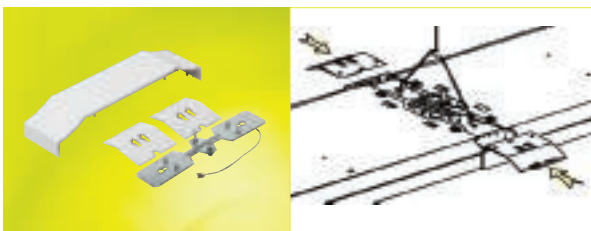
Sylwing cable 5x1.5mm ² 28W	5054791
Sylwing cable 5x1.5mm ² 35W	5054792
Sylwing cable 5x1.5mm ² structure accessory	5054793
Sylwing cable 3x1.5mm ² 28W	5054794
Sylwing cable 3x1.5mm ² 35W	5054795
Sylwing cable 3x1.5mm ² structure accessory	5054796
Sylwing cable 3x1.5mm ² structure accessory Wieland	5054799



Through wiring cable + Male/female Wieland connectors 3 way
An easier and faster way for in line installations.

Through wiring cable 3x1.5 mm ² 28W	5054797
Through wiring cable 3x1.5 mm ² 35W	5054798

Sylwing Accessories



In line suspension kit

A screwed sheet steel fishplate allows an in line mounting between two luminaires. Suspension cables fixed through the accessory itself. Special plastic parts fits on to finish the profile.

	White	Silver
Sylwing S in line kit single	5054942	5054893
Sylwing S in line kit twin	5054943	5054894



In line surface mounted kit

A screwed sheet steel fishplate allows an in line mounting between two luminaires. Ceiling screws fixed through the accessory itself. Special plastic parts fits on to finish the profile.

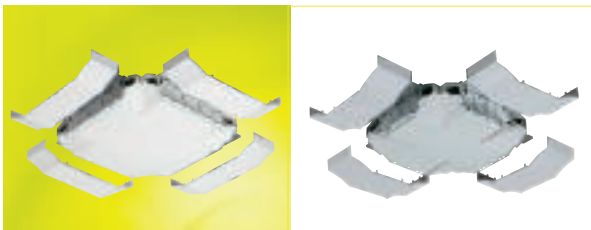
	White	Silver
Sylwing SM in line kit single	5054944	5054895
Sylwing SM in line kit twin	5054945	5054896



L connection for suspension or surface mounted

White coated sheet steel body and plastic angles. Suspension cables fixed through both end parts. Designed plastic parts fits on both end part to finish the profile.

	White	Silver
Sylwing L kit single	5054946	5054897
Sylwing L kit twin	5054949	5054900



X connection for suspension or surface mounted

White coated sheet steel body and plastic angles. Suspension cables or ceiling screw fixed through both end parts. Designed plastic parts fits on all end part to finish the profile.

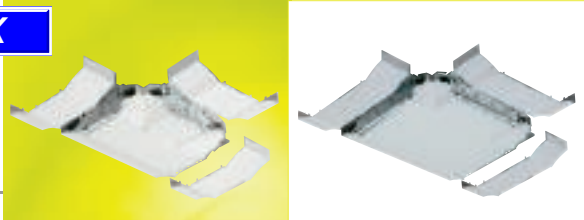
	White	Silver
Sylwing X kit single	5054948	5054899
Sylwing X kit twin	5054951	5054902



Track suspension set adaptors

For mounting and connecting surface fixtures onto track.

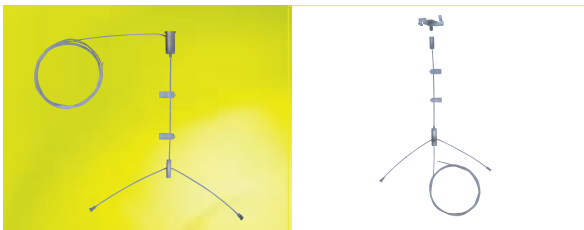
Max. 4A one phase (L1)	2011350
Max. 4A three phase (L3)	2019213



T connection for suspension or surface mounted

White coated sheet steel body and plastic angles. Suspension cables or ceiling screw fixed through all end parts. Designed plastic parts fits on all end part to finish the profile.

	White	Silver
Sylwing T kit single	5054947	5054898
Sylwing T kit twin	5054950	5054901



Suspension kits

Standard Vario-clip for a fast installation into the concrete. Rapid for a fast installation onto T bars directly. (T bars have to be safely secured-respecting European standards- to use this kit).

Suspension kit	5054686
Rapid suspension kit	5054952



Supply cables

Two options according to installations types.

3x1.5mm² 2.5 m long	5054789
3x1.5mm² 2.5 m long + plug	5054790



Surface mounted bracket

These brackets allow a 15 mm space for independent surface mounting luminaires. They are also required for any surface mounted structures connections. (one at each end structure part).

	White	Silver
Sylwing surface mounted brackets	5054941	5054800



Canopy

White canopy all ø	5054687
White canopy for ø 1,5mm cable	5054688



(Description

Strong body made of epoxy painted sheet steel.
UV stabilised injected flat end caps clipped on the body.

Good rigidity of all louvres due to the integrated V cover ballast.

(Installation & maintenance

Fast ceiling mounted fixing through 2 keyholes.
Automatic louvre mounting onto the body.
Easy access to lamp and electrical equipment by removing the louvre.
Louvre hanging position by 2 plastic cables.
Wire for continuous earth connection.
In line mounting using precut original end caps.



SYLMASTER T5

SYLMASTER T5 versions is a compact line of surface mounted luminaires for fluorescent $\varnothing 16$ mm lamps 28 W & 35 W.

A stylish and compact surface mounted line available in twin lamps

SYLMASTER T5 range is specially designed for comfortable lighting in commercial and further education sectors.

The rounded shaped louvres have a matched profile to the outer form of the luminaire.

- > Professional
- > Elegant
- > Economic
- > Fast and easy installation
- > In-line fixtures mounting

(Accessories (page 61))

- > In-line mounting
- > Sheet steel cover plate screwed on the top of the body ensuring the rigidity of the in line mounting luminaires.
- > Suspension accessories: Cover plate with steel cable, Spacers for $\varnothing 15$ mm cable which can be run along the top of the luminaire.

(Photometric data

- > Lamp light output and luminaires performances are given at 25° C.

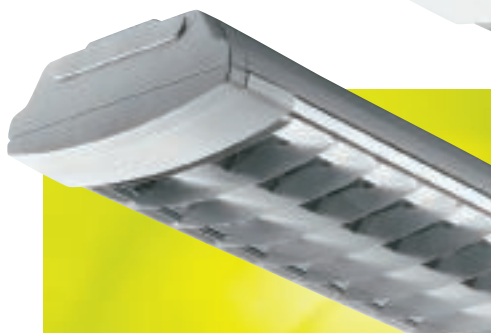
(Electrical equipment

- > Screwed standard ballast
220-240 V/50-60Hz
- > Automatic 5 way screwed terminal block.
- > 2 central entries for cables up to 10 mm - 15 mm, with spacer.
- > High frequency (A2) ballasts.

On request :

- > 1-10V dimmable ballasts.
- > Emergency versions.

Sylmaster T5 Aluminium Louvre



Silver



White



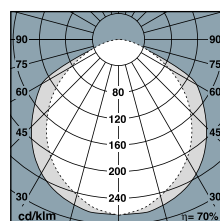
- > High output.
- > Wide distribution.



Louvre description

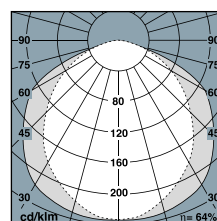
Aluminium louvre with central V ballast cover and rounded cross blades.

SYLMASTER 2x35 W
Aluminium Louvre



— Transversal plane
- - - Longitudinal plane

SYLMASTER Silver 2x35 W
Aluminium Louvre



— Transversal plane
- - - Longitudinal plane

SYLMASTER Aluminium Louvre

Wattages	Total	UTE	Visual Quality Class for illuminance
2x28	70%	0.70D	A for E=300 lx
2x35	70%	0.70D	B for E=300 lx

SYLMASTER Silver Aluminium Louvre

Wattages	Total	UTE	Visual Quality Class for illuminance
2x28	64%	0.64D	A for E=300 lx
2x35	64%	0.64D	A for E=300 lx

Applications

High buildings, public premises. Tertiary commercial sector premises: workshop administration and offices, entrance halls, schools, stores.

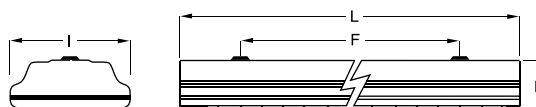
A2 Ballasts

	White	Silver
Sylmaster 2x28 W	0055722	0055724
Sylmaster 2x35 W	0055723	0055725

Luxline Plus FHE Ø16 28/35 W-G5
Flux at 25°C
28 W = 2640 lm
35 W = 3300 lm

dimensions (mm)

lamp	L	I	H	F	Heaviest weight (kg)
2x28	1250	202	85	1000	5
2x35	1550	202	85	1000	5

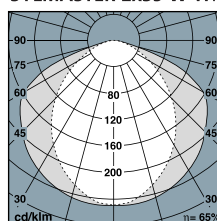


Sylmaster T5 White Painted Louvre



- > Economic white louvre.
- > High output.
- > Wide distribution.

SYLMASTER 2x35 W White Painted Louvre



— Transversal plane
- - - Longitudinal plane

Wattages	Total	UTE	Visual Quality Class for illuminance
2x28	65%	0.65D	B for E=300 lx
2x35	65%	0.65D	B for E=300 lx

Louvre description

White painted sheet steel louvre with central ballast cover and rounded cross blades.

Applications

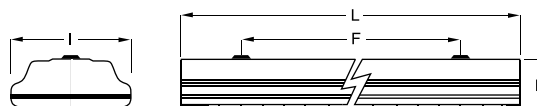
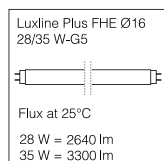
High buildings. General lighting: public premises, entrance halls, stores, administration and offices...

A2 Ballasts

Sylmaster 2x38 W	0055720
Sylmaster 2x35 W	0055721

dimensions (mm)

lamp	L	I	H	F	Heaviest weight (kg)
2x28	1250	202	85	1000	5
2x35	1550	202	85	1000	5



T8 Optics

VERY LOW BRIGHTNESS & HIGH PERFORMANCES LOUVRES

Application:

Any tertiary or commercial sector offices where display screens are used:

- > Drawing offices
- > CAD

- > Monitoring consoles
- > Technical offices
- > Show rooms
- > Meeting rooms
- > Banks and specialised stores



VISUAL 60

Parabolic mirrors and V shaped transversal lamellae in specular aluminium.

- > $L < 200 \text{ cd/m}^2$ at $\gamma = 65^\circ$ in all C planes
- > LOR up to 63%



Double Optic Brilliant

Parabolic mirrors and V shaped transversal lamellae in specular aluminium.

- > $L < 1000 \text{ cd/m}^2$ at $\gamma = 65^\circ$ in all C planes
- > LOR up to 67%



Double Optic Satin

Parabolic mirrors and V shaped transversal lamellae in semi specular aluminium.

- > $L < 1000 \text{ cd/m}^2$ at $\gamma = 65^\circ$ in all C planes
- > LOR up to 61%

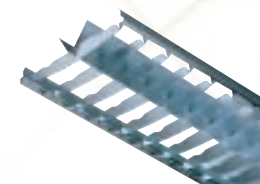
VISUAL COMFORT & HIGHT OUTPUT RATIO

Application:

Tertiary or commercial sector:

- > open-plan offices
- > executive offices

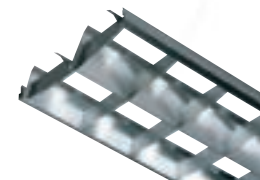
- > meeting rooms
- > halls
- > specialised stores
- > department stores
- > banks and classrooms



PA Louvre

Satin aluminium louvre with longitudinal mirrors and V shaped cross blade.

- > LOR = 70%



LS Louvre

Satin aluminium louvre with transversal V shaped aluminium profiled cross blade.

- > LOR = 67%



HR Louvre

Satin aluminium louvre with white painted transversal V shaped cross blade.

- > LOR up to 68%



PL Louvre

White painted sheet steel louvre with transversal and central V shaped cross blade.

- > LOR up to 62%

WALL WASHER REFLECTOR

Application:

> Class rooms

> Meeting rooms

> Wall washer in corridors or other displays



ASYMMETRICAL

> Aluminium asymmetrical reflector designed for T8 lamps.

> LOR: 74%.

WIDE LIGHT DISTRIBUTION, DECORATIVE ASPECT

Application:

> Tertiary sectors

> Industrial and commercial

> Corridors, halls, habitat

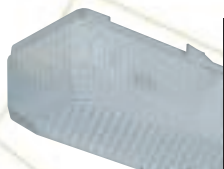
> Offices

> Buildings circulations

> Hospital facilities

> Commercial establishments

> Domestic lighting.



Prismatic

> LOR = 51%



Opal

> LOR = 51%

INDIRECT LIGHTING DIFFUSERS

Application:

Tertiary or commercial sector:

> Open-plan offices

> Executive offices

> Meeting rooms

> Technical offices

> Halls

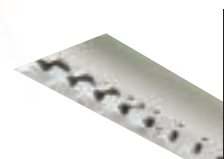
> Specialised stores

> Department stores

> Banks...



Micro Perforated Diffuser



Comfort Diffuser



(Optics performances

No compromise is possible for schools and offices lighting. Conceived to comply with security, performances and comfort standards requirements, SYL-LOUVER range brings a precise response to each visual 60 lighting need of these specific, and other premises. The wide range of lamp and louvre combinations ensures performance is maintained without compromising the overall design.

(Description

White painted sheet steel rigid body. Injected end caps or corners, clipped to the body. Ribbed bottom to ensure perfect stability. Facility to put the electric cables on top of the body. Louvres retained by wishbone springs providing easy maintenance.

(Installation & maintenance

Fixed to the ceiling by 2 or 4 key holes depending on model. Suspended mounting by separately specified steel cables with cover and supply cable. Central cable entry with facility for cable retention.



SYL-LOUVER

(Aesthetics and performance

A ceiling luminaire must meet very strict lighting constraints but this should not mean sacrificing aesthetics. In this spirit, **SYL-LOUVER** has been conceived to provide the ideal blend of performance and design.

- > Modern design: with its smooth and rounded shapes SYL-LOUVER blends in perfectly with its environment
- > Complete range of lighting solutions:
Direct, Direct/indirect, Compact fluorescent.
- > Wide range of louvres
- > Fast and easy installation

(Accessories

- > Suspension set, in-line mounting as well as L,T,X structures connections kits.
- > Supply cable.

(Electrical equipment

- > Depending on the model, screwed on the bottom centre line or on sides. 230V/50Hz.
- > Electronic (A2) or low loss (B2) ballasts (supplied as standard power factor corrected -PC).

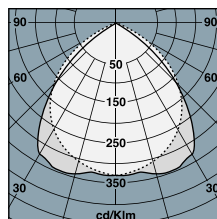
On request :

- > 1-10V dimmable ballasts
- > Emergency versions available.

Syl-Louver Visual 60



SYL-LOUVER 2x36 W Visual 60



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°...C90° planes
1x36	52%	0.52B	100%	L < 200 cd/m² at γ=65°
1x58	51%	0.51B	100%	L < 200 cd/m² at γ=65°
2x36	52%	0.52B	100%	L < 200 cd/m² at γ=65°
2x58	51%	0.51B	100%	L < 200 cd/m² at γ=65°
4x18	62%	0.62B	100%	L < 200 cd/m² at γ=65°

- > Very low brightness louvre.
- > High output.
- > Visual comfort.



Louvre Description

Specular aluminium high performance louvre.

Very low brightness louvre SYL-LOUVER ceiling luminaire. Average brightness less than 200 cd/m² for an angle of vision greater than or equal to 60° in relation to the vertical.

Applications

Tertiary or commercial sector: offices with display screens (CAD-CAM), drawing rooms, monitoring consoles, meeting rooms, banks and retail stores.

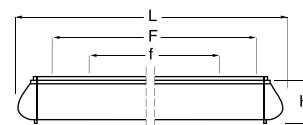
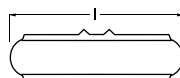
	3 way	5 way	3 hours
A2 Ballasts	terminal block	terminal block	emergency
Syl-Louver 1x36 W		0046457	0053958
Syl-Louver 2x36 W		0046458	0053959
Syl-Louver 1x58 W		0046459	0053960
Syl-Louver 2x58 W		0046460	0053961
Syl-Louver 4x18 W		0046461	0053962
B2 Ballasts			
Syl-Louver 1x36 W PC	0051770		
Syl-Louver 1x58 W PC	0051771		
Syl-Louver 2x36 W PC	0051773		
Syl-Louver 2x58 W PC	0051774		
Syl-Louver 4x18 W PC	0051759		

1-10V & Other emergency versions available on request. Please ask your local representative.
Accessories see page 51.

Luxline Plus Ø26 18/36/58 W-G13
18 W = 1350 lm 36 W = 3350 lm 58 W = 5200 lm

dimensions (mm)

lamp	L	I	H	F	f	heaviest weight (kg)
1x36	1298	192	88	1000		3.8
1x58	1599	192	88	1000		4.8
2x36	1302	310	88	1000		5.7
2x58	1603	310	88	1000		7.1
4x18	686	686	88	500	310	8.4

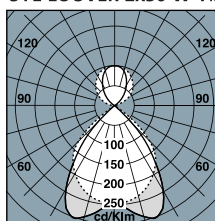


Syl-Louver Visual 60

Direct-indirect lighting



SYL-LOUVER 2x36 W Visual 60 Direct-Indirect



Wattages	LOR	UTE	DFP	Luminance in all C0°, C15°...C90° planes
1x36	65%	0.49B+0.16T	75%	L < 200 cd/m² at γ=65°
1x58	64%	0.48B+0.16T	75%	L < 200 cd/m² at γ=65°
2x36	65%	0.49B+0.16T	75%	L < 200 cd/m² at γ=65°
2x58	64%	0.48B+0.16T	75%	L < 200 cd/m² at γ=65°

- > Balanced illumination.
- > Comfortable direct-indirect lighting.
- > Low brightness louvre.



Louvre Description

Specular aluminium high performance louvre.

Very low brightness louvre SYL-LOUVER suspended luminaire. Average brightness less than 200 cd/m² for an angle of vision greater than or equal to 60° in relation to the vertical.

Applications

Tertiary or commercial sector: offices with display screens (CAD-CAM), drawing rooms, monitoring consoles, meeting rooms, banks and retail stores.

	3 way	5 way	3 hours
A2 Ballasts	terminal block	terminal block	emergency
Syl-Louver 1x36 W		0046612	0053776
Syl-Louver 2x36 W		0046613	0053777
Syl-Louver 1x58 W		0046614	0053778
Syl-Louver 2x58 W		0046615	0053779
B2 Ballasts			
Syl-Louver 1x36 W NC & PC		0046616	
Syl-Louver 2x36 W NC & PC		0046617	
Syl-Louver 1x58 W NC & PC		0046618	
Syl-Louver 2x58 W NC & PC		0046619	
Syl-Louver 1x36 W PC	0046620		
Syl-Louver 2x36 W PC	0046622		
Syl-Louver 2x58 W PC	0046623		

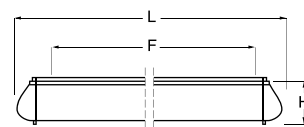
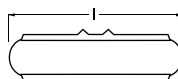
1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 51.

Luxline Plus Ø26 18/36/58 W-G13
18 W = 1350 lm 36 W = 3350 lm 58 W = 5200 lm

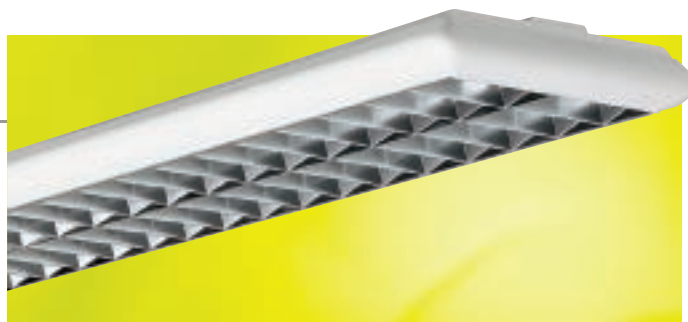
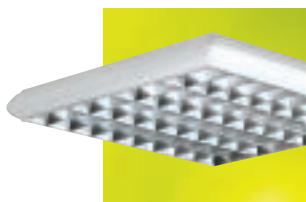
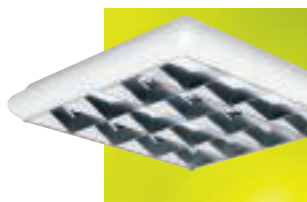
dimensions (mm)

lamp	L	I	H	F	heaviest weight (kg)
1x36	1298	192	88	1000	3.8
1x58	1599	192	88	1000	4.8
2x36	1302	310	88	1000	5.7
2x58	1603	310	88	1000	7.1

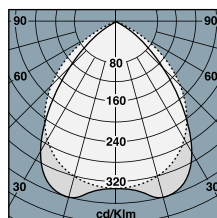


Syl-Louver Double Optic

+ Compact fluorescent lamps



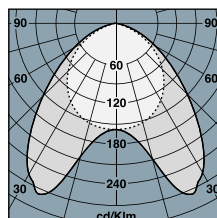
SYL-LOUVER 2x36 W Double Optic



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°...C90° planes
1x36	64%	0.64B	100%	L < 500 cd/m² at γ=65°
1x58	63%	0.63B	100%	L < 500 cd/m² at γ=65°
2x36	64%	0.64B	100%	L < 500 cd/m² at γ=65°
2x58	63%	0.63B	100%	L < 500 cd/m² at γ=65°
4x18	67%	0.67C	100%	L < 500 cd/m² at γ=65°

SYL-LOUVER 2x36 W L Compact fluorescent lamps



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°...C90° planes
FC 2x18	75%	0.75C	100%	Visual quality class A for E=300 lx
FC 2x36	56%	0.56C	100%	Visual quality class A for E=500 lx

- > Low brightness.
- > Visual comfort.



Louvre description

High performance louvre with specular aluminium longitudinal mirrors and V shaped satin cross blades.

Applications

Tertiary or commercial sector: meeting rooms, technical offices, halls, department stores, banks and public premises.
Corridors and entrance halls.

A2 Ballasts

3 way terminal block

5 way terminal block

Syl-Louver 1x36 W		0046145
Syl-Louver 1x58 W		0046148
Syl-Louver 2x36 W		0046189
Syl-Louver 2x58 W		0046258
Syl-Louver 4x18 W		0046259

B2 ballasts

Syl-Louver 1x36 W PC	0051780	0053804
Syl-Louver 1x58 W PC	0051781	0053805
Syl-Louver 2x36 W PC	0051783	0053807
Syl-Louver 2x58 W PC	0051784	0053808
Syl-Louver 4x18 W PC	0051785	

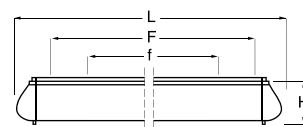
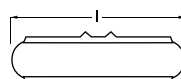
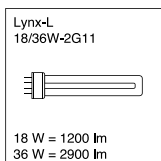
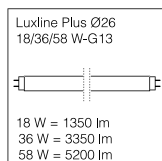
COMPACT FLUORESCENT LAMPS

Syl-Louver 2x18 W Lynx-L PC	0051786
Syl-Louver 2x36 W Lynx-L PC	0051787

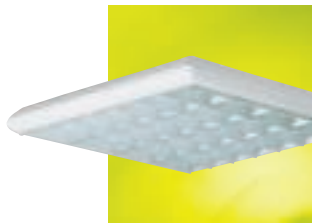
1-10V & Emergency versions available on request. Please ask your local representative.
Accessories see page 51.

dimensions (mm)

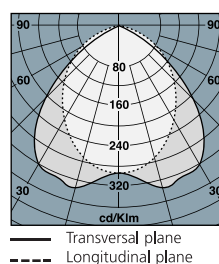
lamp	L	I	H	F	f	heaviest weight (kg)
1x36	1298	192	88	1000		3.8
1x58	1599	192	88	1000		4.8
2x36	1302	310	88	1000		5.7
2x58	1603	310	88	1000		7.1
4x18	686	686	88	500	310	8.4
2x18 Lynx-L	340	340	88	212	170	2.0
2x36 Lynx-L	516	516	88	388	280	7.0



Syl-Louver HR Louvre



SYL-LOUVER 2x36 W HR Louvre



- > High output ratio.
- > Visual comfort.

Louvre description

Louvre with satin aluminium longitudinal mirrors and white painted flat cross blades.

Applications

Tertiary or commercial sector premises requiring high levels of lighting: offices, retail areas, entrance halls and public premises.

A2 Ballasts	3 way terminal block	5 way terminal block
Syl-Louver 1x36 W		0046124
Syl-Louver 1x58 W		0046125
Syl-Louver 2x36 W		0046126
Syl-Louver 2x58 W		0046127

B2 Ballasts	
Syl-Louver 1x36 W PC	0051800
Syl-Louver 1x58 W PC	0051801
Syl-Louver 2x36 W PC	0051803
Syl-Louver 2x58 W PC	0051804
Syl-Louver 4x18 W PC	0051805

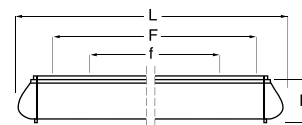
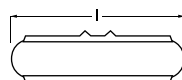
1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 51.

Luxline Plus Ø26 18/36/58 W-G13
18 W = 1350 lm 36 W = 3350 lm 58 W = 5200 lm

dimensions (mm)

lamp	L	I	H	F	f	heaviest weight (kg)
1x36	1298	192	88	1000		3.8
1x58	1599	192	88	1000		4.8
2x36	1302	310	88	1000		5.7
2x58	1603	310	88	1000		7.1
4x18	686	686	88	500	310	8.4



Syl-Louvre HR Louvre

Direct-indirect lighting



- > Balanced illumination.
- > Comfortable direct-indirect lighting.
- > High output ratio.
- > Visual comfort.

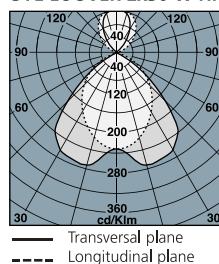


Louvre description

Optic with satin aluminium mirrors and white painted flat cross blades.



SYL-LOUVER 2x36 W HR Louvre direct-indirect



Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
1x36	81%	0.65B+0.16T	80%	A for E=750 lx
1x58	80%	0.64B+0.16T	80%	A for E=750 lx
2x36	81%	0.65B+0.16T	80%	A for E=750 lx
2x58	80%	0.64B+0.16T	80%	A for E=750 lx

Applications

Tertiary or commercial sector premises in which balanced brightness and visual comfort are important, such as: individual offices, offices with display screens, open-plan offices, managerial offices, meeting rooms, technical offices, specialised stores, show rooms and banks.

A2 Ballasts	3 way terminal block	5 way terminal block
Syl-Louvre D/I 1x36 W		0046640
Syl-Louvre D/I 1x58 W		0046641
B2 Ballasts		
Syl-Louvre D/I 1x58 W PC	0051841	
Syl-Louvre D/I 2x58 W PC	0051844	

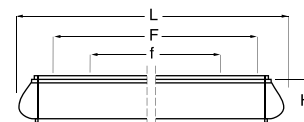
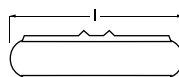
1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 51.

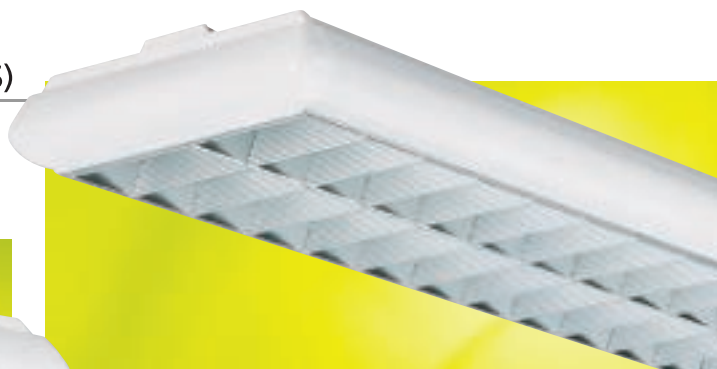
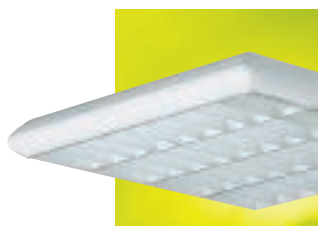
Luxline Plus Ø26 18/36/58 W-G13
36 W = 3350 lm 58 W = 5200 lm

dimensions (mm)

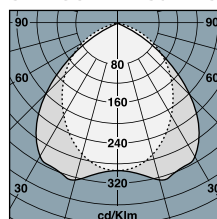
lamp	L	I	H	F	f	heaviest weight (kg)
1x36	1298	192	88	1000		3.8
1x58	1599	192	88	1000		4.8
2x58	1603	310	88	1000		7.1



Syl-Louver Christmas Tree Louvre (LS)



SYL-LOUVER 2x36 W LS Louvre



Wattages	LOR	UTE	DFF	Visual Quality Class for illuminances
1x36	65%	0.65C	100%	A for E=750 lx
1x58	64%	0.64C	100%	A for E=500 lx
2x36	65%	0.65C	100%	A for E=750 lx
2x58	64%	0.64C	100%	A for E=500 lx
4x18	71%	0.71D	100%	A for E=750 lx



— Transversal plane
- - - Longitudinal plane

Applications

Tertiary or commercial sector premises requiring high levels of lighting : offices, retail stores, entrance halls and public premises.

A2 Ballasts

5 way terminal block

Syl-Louver 1x36 W	0046130
Syl-Louver 1x58 W	0046138
Syl-Louver 2x36 W	0046139
Syl-Louver 2x58 W	0046141
Syl-Louver 4x18 W	0046455

B2 Ballasts

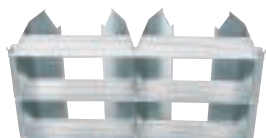
Syl-Louver 2x18 W PC	0053815
Syl-Louver 2x36 W PC	0053816
Syl-Louver 2x58 W PC	0053817
Syl-Louver 4x18 W PC	0053818

1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 51.

Louvre description

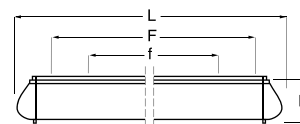
Louvre with satin aluminium longitudinal mirrors and aluminium profiled transversal cross blades.



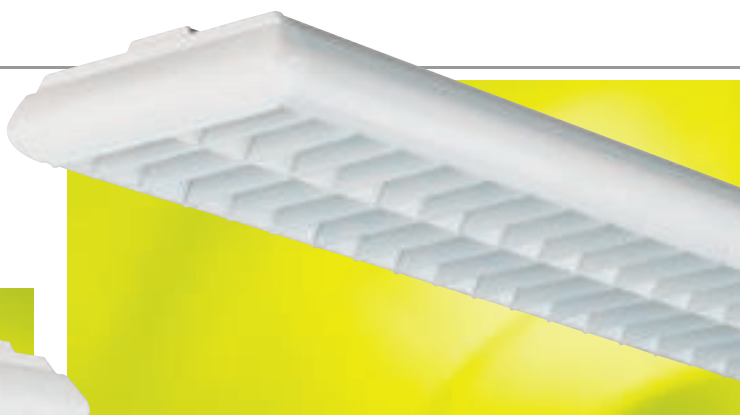
Luxline Plus Ø26 18/36/58 W-G13
18 W = 1350 lm
36 W = 3350 lm
58 W = 5200 lm

dimensions (mm)

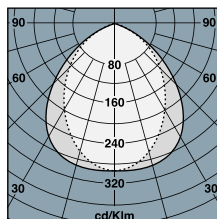
lamp	L	I	H	F	f	Heaviest weight (kg)
1x36	1298	192	88	1000		3.8
1x58	1599	192	88	1000		4.8
2x18	689	310	88	460		3.1
2x36	1302	310	88	1000		5.7
2x58	1603	310	88	1000		7.1
4x18	686	686	88	500	310	8.4



Syl-Louver Painted Louvre



SYL-LOUVER 2x36 W Painted Louvre



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminances
1x36	60%	0.60C	100%	A for E=750 lx
1x58	59%	0.59C	100%	A for E=500 lx
2x36	60%	0.60C	100%	A for E=750 lx
2x58	59%	0.59C	100%	A for E=500 lx
4x18	66%	0.66D	100%	A for E=750 lx

- > Visual comfort.
- > High output.

Applications

Tertiary or commercial sector premises requiring high levels of lighting: offices, retail stores, entrance halls and public premises.

Louvre description

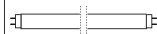
Louvre with longitudinal sides and white painted sheet steel cross blades.

A2 Ballasts	3 way terminal block	5 way terminal block
Syl-Louver 1x36 W		0046450
Syl-Louver 2x36 W		0046451
Syl-Louver 1x58 W		0046452
Syl-Louver 2x58 W		0046453
Syl-Louver 4x18 W		0046454
B2 Ballasts		
Syl-Louver 1x36 W PC	0051810	
Syl-Louver 1x58 W PC	0051811	
Syl-Louver 2x36 W PC	0051813	
Syl-Louver 2x58 W PC	0051814	
Syl-Louver 4x18 W PC	0051815	

1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 51.

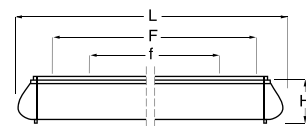
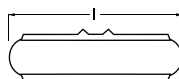
Luxline Plus Ø26
18/36/58 W-G13



18 W = 1350 lm
36 W = 3350 lm
58 W = 5200 lm

dimensions (mm)

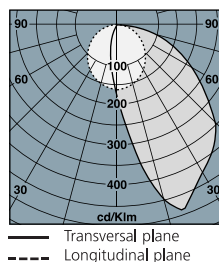
lamp	L	I	H	F	f	Heaviest weight (kg)
1x36	1298	192	88	1000		3.8
1x58	1599	192	88	1000		4.8
2x36	1302	310	88	1000		5.7
2x58	1603	310	88	1000		7.1
4x18	686	686	88	500	310	8.4



Syl-Louver Asymmetrical



SYL-LOUVER 1x58 W



Wattages	LOR
1x36	67%
1x58	67%

- > Asymmetric louvre.
- > Low glare.
- > High output.
- > Even illumination.

Description

Satin aluminium asymmetrical reflector.

A2 Ballasts

3 way terminal block

5 way terminal block

Syl-Louver 1x36 W	0046635
Syl-Louver 1x58 W	0046634

B2 Ballasts

Syl-Louver 1x36 W NC & PC	0046636
Syl-Louver 1x58 W NC & PC	0046637
Syl-Louver 1x36 W PC	0051765
Syl-Louver 1x58 W PC	0051766

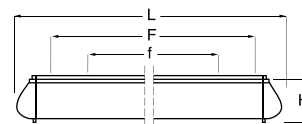
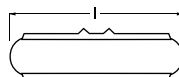
1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 51.

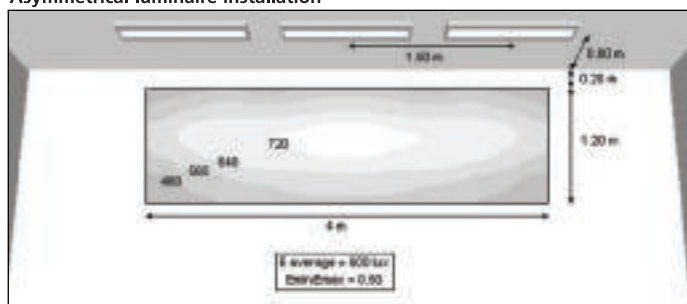
Luxline Plus Ø26 36/58 W-G13
36 W = 3350 lm 58 W = 5200 lm

dimensions (mm)

lamp	L	I	H	F	f	heaviest weight (kg)
1x36	1298	192	88	1000		3.8
1x58	1599	192	88	1000		4.8



Asymmetrical luminaire installation



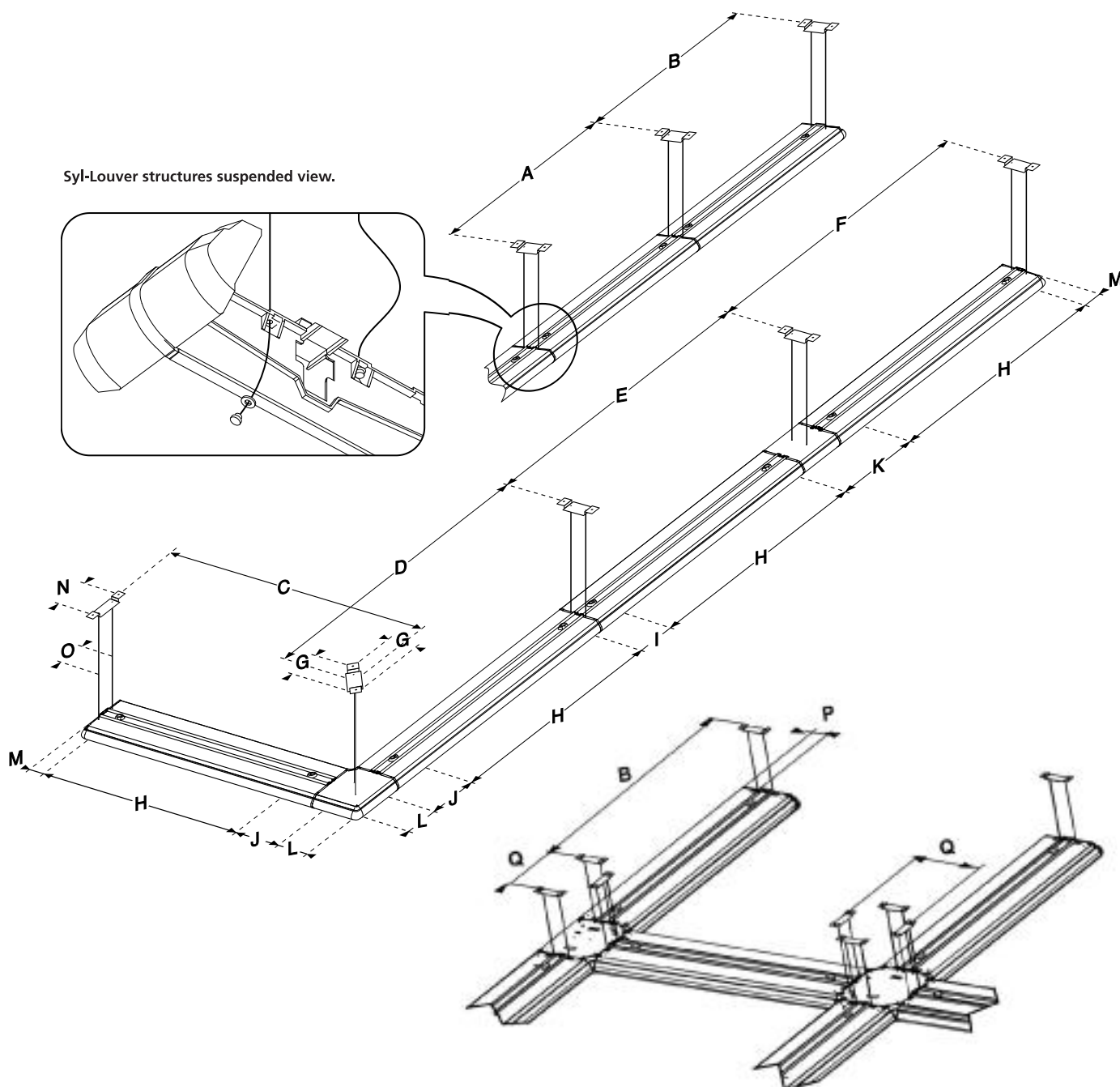
Syl-Louver Structures

Installation/maintenance

Syl-Louver structures can be either suspended or surface mounted.



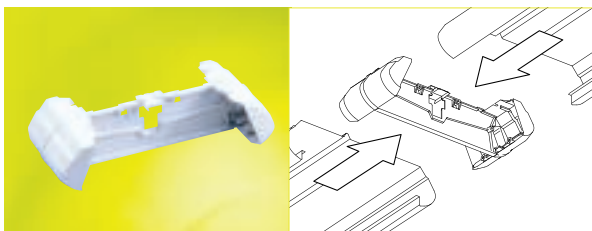
Syl-Louver structures suspended view.



Dimensions (mm)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1 x 36	1239	1232	1329	1336	1375	1368	86	1000	239	217	512	96	149	121	77	58	195
1 x 58	1540	1533	1630	1637	1676	1669	86	1000	540	367	813	96	299	121	77	58	195
2 x 36	1239	1232	1388	1395	1375	1368	86	1000	239	276	512	155	151	121	77	58	313
2 x 58	1540	1533	1689	1696	1676	1669	86	1000	540	426	813	155	302	121	77	58	313

Syl-Louver Structures



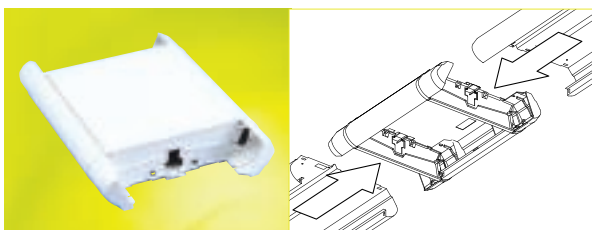
In line connection

A screwed fishplate allows an uninterrupted light distribution between two luminaires. Suspension cables fixed through the accessory itself (see page 50).

Single version **5051015**

Twin version **5051016**

Asymmetrical version on request.



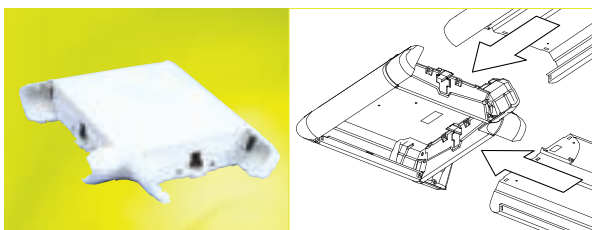
In line module

White coated sheet steel body & plastic angles. Suspension cables can be fixed through accessories or on module centre itself.

Single version block **5051020**

Twin version block **5051021**

Asymmetrical version on request.



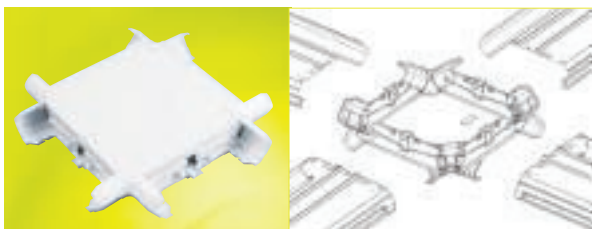
L module

White coated sheet steel body and plastic angles.

Suspension cables can be fixed through accessories or in diagonal on module centre itself.

L single **5051030**

L twin **5051031**



X module

White coated sheet steel body and plastic angles.

Suspension cables fixed through accessories (2 suspension kit needed).

X single **5051013**

X twin **5051014**

Through wiring

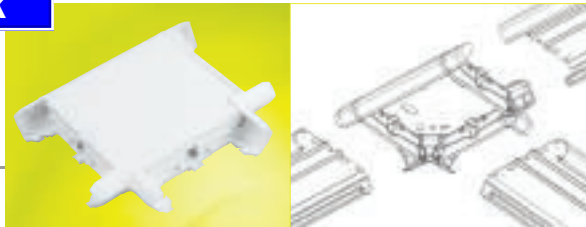
Syl-Louver 3x2.5mm² 36 Wieland **5051042**

Syl-Louver 3x2.5mm² 58 Wieland **5051043**

Syl-Louver Start 3x2.5 mm² **5051044**

Syl-Louver Acc. 3x2.5 mm² **5051045**

Wieland 3p Male + Female Connect **5051046**



T module

White coated sheet steel body and plastic angles.

Suspension cables fixed through accessories (2 suspension kit needed).

T single **5051011**

T twin **5051012**

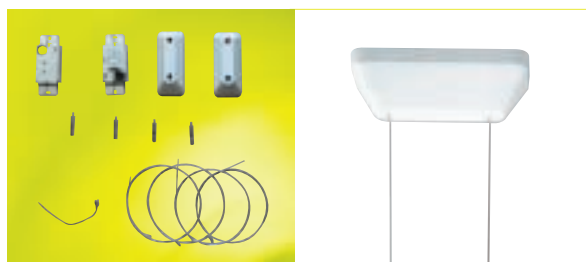


Suspension kit

Standard suspension kit including 2 steel brackets, 2 covers and 4 adjustable cables. Cable length 1.5m.

Suspension kit for 3 way terminal block **0044611**

Suspension kit for 5 way terminal block **0044490**



Rapid suspension kit

This kit allows a faster installation thanks to Vario-clip cable length adjustable system. It also includes 2 steel brackets, 2 covers and 4 cables. Cable length 1.5 m.

Rapid suspension kit for 3 way terminal block **5044670**



Supply cable

3x1.5 mm spiralled supply cable for a suspension height from 0.5 m to 1.5 m. 3x1.5mm supply cable **0044612**



Track suspension set adaptors

For mounting and connecting surface fixtures onto track.

Max. 4A one phase (L1) **2011350**

Max. 4A three phase (L3) **2019213**



(Description

Strong body made of epoxy painted sheet steel.
UV stabilised injected flat end caps clipped on the body.

A wide choice of effective louvres.
Good rigidity of all louvres due to the integrated V cover ballast.
Pre painted reflector located behind the lamp for single versions also used as ballast cover.
Correct spacing of the ballasts to ensure  mark compliance.

(Installation & maintenance

Fast ceiling mounted fixing by 2 keyholes.
Automatic louvre mounting onto the body.
Easy access to lamp and electrical equipment by removing the louvre and the reflector for single version.
Louvre hanging position by 2 plastic cables.
Wire for continuous earth connection.
In line mounting using precut original end caps.



SYLMASTER

SYLMASTER is a compact line of surface mounted luminaires for fluorescent ø26 mm lamps 36 W & 58 W.

A stylish and compact surface mounted line available either single or twin lamp units in one single body

SYLMASTER range is specially designed for comfortable lighting in commercial and further education sectors. The rounded shaped louvres have a matched profile to the outer form of the luminaire. This original and modern design combines elegance with performance and visual comfort

- > Professional
- > Elegant
- > Economic
- > Fast and easy installation
- > In-line fixtures mounting

(Accessories)

- > In-line mounting
- > Sheet steel cover plate screwed on the top of the body ensuring the rigidity of the in line mounting luminaires.
- > Suspension accessories: Cover plate with steel cable. Spacers for Ø15 mm cable which can be run along the top of the luminaire.

(Electrical equipment)

- > Screwed standard ballast 230 V/50Hz
- > 3 or 5 way screwed terminal block (1,5 mm² wire)
- > 2 central entries for cables up to 10 mm - 15 mm, with spacer.
- > High frequency (A2) or low loss (B2) ballasts. (Parallel compensation Cos γ > 0.9)

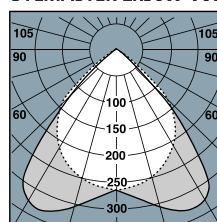
On request :

- > 1-10V dimmable ballasts.
- > Emergency versions.

Sylmaster Visual 60



SYLMASTER 2x36W V60



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	Luminance in all C0°, C15°, ... C90° planes
1x36	55%	0.558	$L < 200 \text{ cd/m}^2$ at $\gamma = 65^\circ$
1x58	55%	0.558	$L < 200 \text{ cd/m}^2$ at $\gamma = 65^\circ$
2x36	55%	0.558	$L < 200 \text{ cd/m}^2$ at $\gamma = 65^\circ$
2x58	55%	0.558	$L < 200 \text{ cd/m}^2$ at $\gamma = 65^\circ$

- > Very Low brightness louvre.
- > High performance.
- > Visual comfort.



Louvre description

Parabolic mirror and V-shaped cross blades in specular aluminium.
 $L < 200 \text{ cdm}^2$ under $\gamma \geq 60^\circ$.

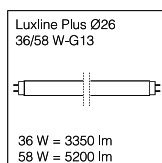
Applications

Tertiary or commercial sector premises: offices with display screens (CAD-CAM), drawing rooms, monitoring consoles, technical offices, meeting rooms.

	3 way	5 way	Emergency
	terminal block	terminal block	1 hour
Sylmaster 1x36 W		0055095	
Sylmaster 2x36 W		0055096	0055072
Sylmaster 1x58 W		0055085	
Sylmaster 2x58 W		0055086	0055073
B2 Ballasts			
Sylmaster 2x36 W PC	0055639		0055074
Sylmaster 2x58 W PC	0055631		0055076

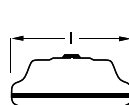
1-10V & other emergency versions available on request. Please ask your local representative.

Accessories see page 61.



dimensions (mm)

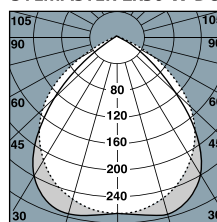
lamp	L	I	H	F	heaviest weight (kg)
1x36	1250	202	85	1000	4.2
1x58	1550	202	85	1000	5.2
2x36	1250	202	85	1000	5.7
2x58	1550	202	85	1000	7.1



Sylmaster Double Optic Satin



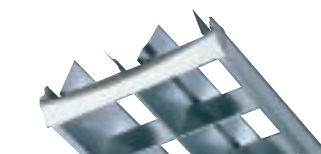
SYLMASTER 2x36 W DOS



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	Luminance in all C0°, C15°, ... C90° planes
2x36	53%	0.53C	L < 1500 cd/m² at γ=65°
2x58	53%	0.53C	L < 1500 cd/m² at γ=65°

- > Low brightness louvre.
- > Visual comfort.



Louvre description

Parabolic mirrors and V-shaped cross blades in satin aluminium.

Applications

High buildings, Tertiary or commercial sector premises : offices, banks, technical offices, meeting rooms

A2 Ballasts	3 way terminal block	5 way terminal block
Sylmaster 2x36 W		0055060
Sylmaster 2x58 W		0055112
B2 Ballasts		
Sylmaster 2x36 W PC	0055266	
Sylmaster 2x58 W PC	0055267	

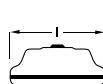
1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 61.

Luxline Plus Ø26 36/58 W-G13
36 W = 3350 lm 58 W = 5200 lm

dimensions (mm)

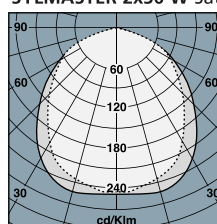
lamp	L	I	H	F	Heaviest weight (kg)
2x36	1250	202	85	1000	5.7
2x58	1550	202	85	1000	7.1



Sylmaster Satin Aluminium Louvre



SYLMASTER 2x36 W Satin Aluminium Louvre

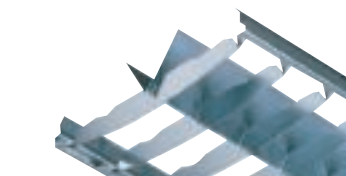


Wattages	Total	UTE	Visual Quality Class for illuminance
1x36	73%	0.73C	A for E=300 lx
1x58	73%	0.73C	A for E=300 lx
2x36	65%	0.65D	B for E=300 lx
2x58	65%	0.65D	C for E=300 lx



— Transversal plane
- - - Longitudinal plane

- > High output ratio.
- > Wide distribution.



Louvre Description

Aluminium louvre with central V ballast cover and rounded cross blades.

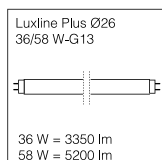
Applications

High buildings, public premises, Tertiary commercial sector premises: workshop administration and offices, entrance halls, schools, stores.

A2 Ballasts	3 way terminal block	5 way terminal block	Emergency 1 hour
Sylmaster 2x36 W		0055115	
Sylmaster 2x58 W		0055099	
B2 Ballasts			
Sylmaster 1x36 W PC	0055260		
Sylmaster 1x58 W PC	0055261		
Sylmaster 2x36 W PC	0055262		0055064
Sylmaster 2x58 W PC	0055263		0055065

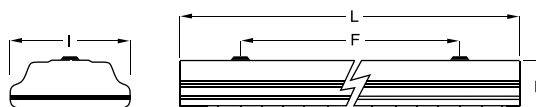
1-10V & other emergency versions available on request. Please ask your local representative.

Accessories see page 61.



dimensions (mm)

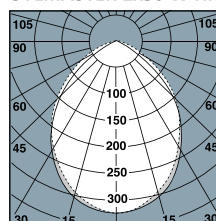
lamp	L	I	H	F	Heaviest weight (kg)
1x36	1250	202	85	1000	4,2
1x58	1550	202	85	1000	5,2
2x36	1250	202	85	1000	5,7
2x58	1550	202	85	1000	7,1



Sylmaster HR Louvre



SYLMASTER 2x36 W HR



— Transversal plane
 --- Longitudinal plane

Wattages	total	UTE	Visual Quality Class for illuminance
1x36	61%	0.61C	A for E=500 lx
1x58	61%	0.61C	A for E=500 lx
2x36	61%	0.61C	A for E=500 lx
2x58	62%	0.62C	A for E=500 lx

- > High output.
- > Low brightness.
- > Visual comfort.



Louvre description

Longitudinal mirrors in satin aluminium and white painted sheet steel cross blades.

Applications

High buildings. Tertiary or commercial sector premises offices, banks, technical offices meeting rooms...

B2 Ballasts

3 way terminal block

Sylmaster 1x36 W PC	0055256
Sylmaster 1x58 W PC	0055257
Sylmaster 2x36 W PC	0055258
Sylmaster 2x58 W PC	0055259

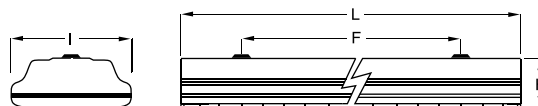
1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 61.

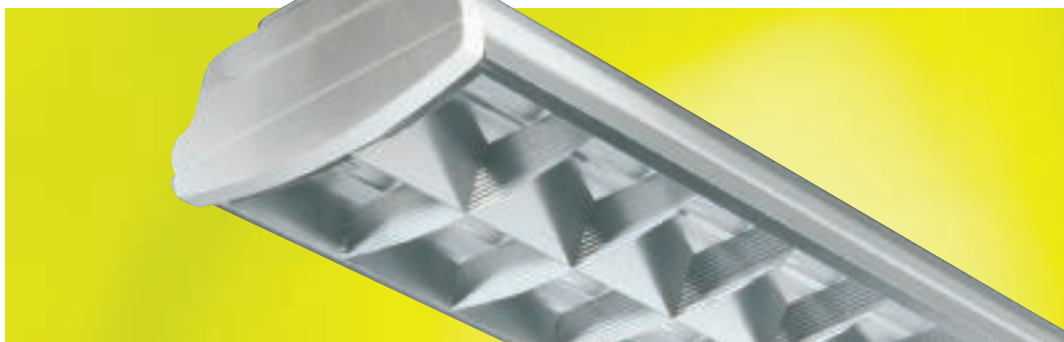
Luxline Plus Ø26 36/58 W-G13
36 W = 3350 lm 58 W = 5200 lm

dimensions (mm)

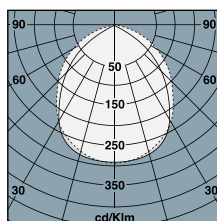
lamp	L	I	H	F	Heaviest weight (kg)
1x36	1250	202	85	1000	4.2
1x58	1550	202	85	1000	5.2
2x36	1250	202	85	1000	5.7
2x58	1550	202	85	1000	7.1



Sylmaster Christmas Tree Louvre (LS)



SYLMASTER 2x36 W LS



Wattages	LOR	UTE	Visual Quality Class for illuminance
2x36	61%	0.61C	A for E=300 lx
2x58	61%	0.61C	B for E=300 lx



— Transversal plane
- - - Longitudinal plane

Applications

High buildings. Tertiary or commercial sector premises : offices, banks, technical offices, meeting rooms.

- > Low brightness.
- > Visual comfort.

Louvre description

Longitudinal mirrors in satin aluminium and aluminium profiled cross blades.

A2 Ballasts

3 way terminal block

5 way terminal block

Sylmaster 1x36 W		0055093
Sylmaster 2x36 W		0055094
Sylmaster 1x58 W		0055087
Sylmaster 2x58 W		0055088

B2 Ballasts

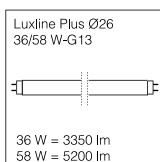
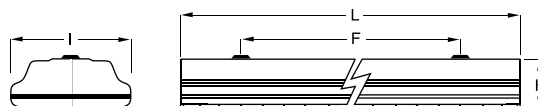
Sylmaster 1x36 W NC & PC		0055131
Sylmaster 2x36 W NC & PC		0055132
Sylmaster 1x58 W NC & PC		0055133
Sylmaster 2x58 W NC & PC		0055134
Sylmaster 2x36 W PC	0055264	
Sylmaster 2x58 W PC	0055265	

1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 61.

dimensions (mm)

lamp	L	I	H	F	Heaviest weight (kg)
1x36	1250	202	85	1000	4.2
1x58	1550	202	85	1000	5.2
2x36	1250	202	85	1000	5.7
2x58	1550	202	85	1000	7.1



Sylmaster White Painted Louvre

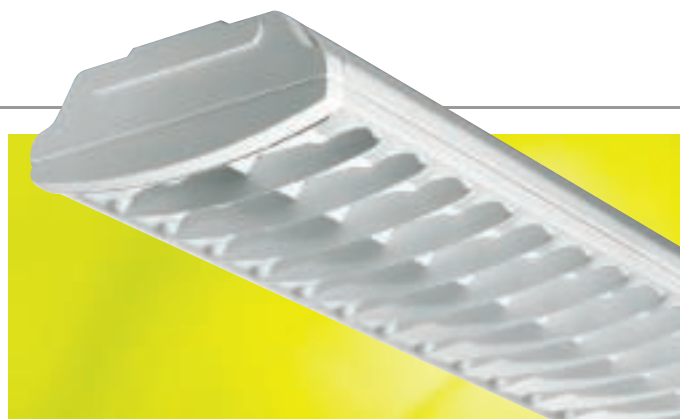


- > Economic white louvre.
- > High output.
- > Wide distribution.

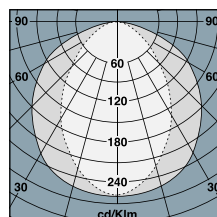


Louvre description

White painted sheet steel louvre with central ballast cover and rounded cross blades.



SYLMASTER 2x36 W White Painted Louvre



— Transversal plane
- - - Longitudinal plane

Wattages	Total	UTE	Visual Quality Class for illuminance
1x36	65%	0.65D	B for E=300 lx
1x58	65%	0.65D	B for E=300 lx
2x36	62%	0.62D	B for E=300 lx
2x58	62%	0.62D	B for E=300 lx

Applications

High buildings. General lighting: public premises, entrance halls, stores, administration and offices...

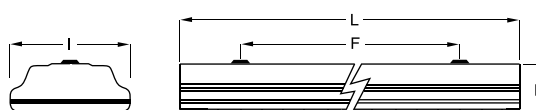
A2 ballasts	3 way terminal block	5 way terminal block
Sylmaster 1x36 W		0055089
Sylmaster 1x58 W		0055090
Sylmaster 2x36 W		0055091
Sylmaster 2x58 W		0055092
B2 Ballasts		
Sylmaster 1x36 W PC	0055252	
Sylmaster 1x58 W PC	0055253	
Sylmaster 2x36 W PC	0055254	
Sylmaster 2x58 W PC	0055255	

1-10V & Emergency versions available on request. Please ask your local representative.
Accessories see page 61.

Luxline Plus Ø26 36/58 W-G13
36 W = 3350 lm 58 W = 5200 lm

dimensions (mm)

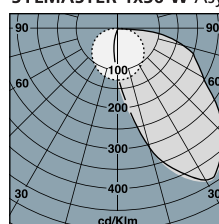
lamp	L	I	H	F	Heaviest weight (kg)
1x36	1250	202	85	1000	4.2
1x58	1550	202	85	1000	5.2
2x36	1250	202	85	1000	5.7
2x58	1550	202	85	1000	7.1



Sylmaster Asymmetrical



SYLMASTER 1x36 W Asymmetrical



Wattages	Total
1x36	71%
1x58	71%



— Transversal plane
- - - Longitudinal plane

- > Asymmetric reflector.
- > Low glare.
- > High output.
- > Even illumination.

Louvre description

Satin aluminium asymmetrical louvre.

Applications

High buildings, public areas. Specially adapted for the lighting of walls in tertiary and commercial sector: class-rooms boards, corridors, exhibitions.

A2 Ballasts	3 way terminal block	5 way terminal block
Sylmaster 1x36 W		0055097
Sylmaster 1x58 W		0055098
B2 Ballasts		
Sylmaster 1x36 W PC	0055250	
Sylmaster 1x58 W PC	0055251	

1-10V & Emergency versions available on request. Please ask your local representative.

Accessories see page 61.

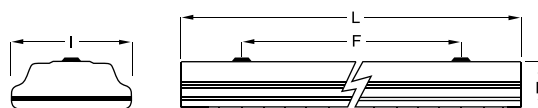
Luxline Plus Ø26
36/58 W-G13



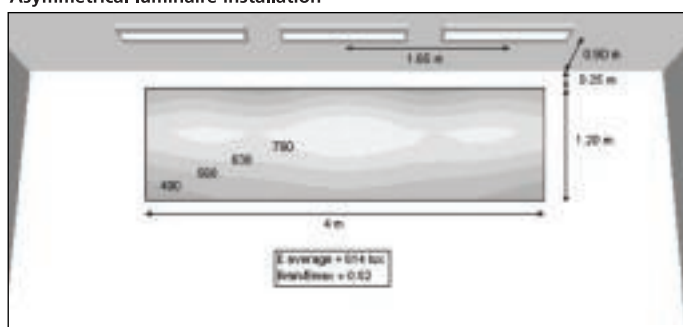
36 W = 3350 lm
58 W = 5200 lm

dimensions (mm)

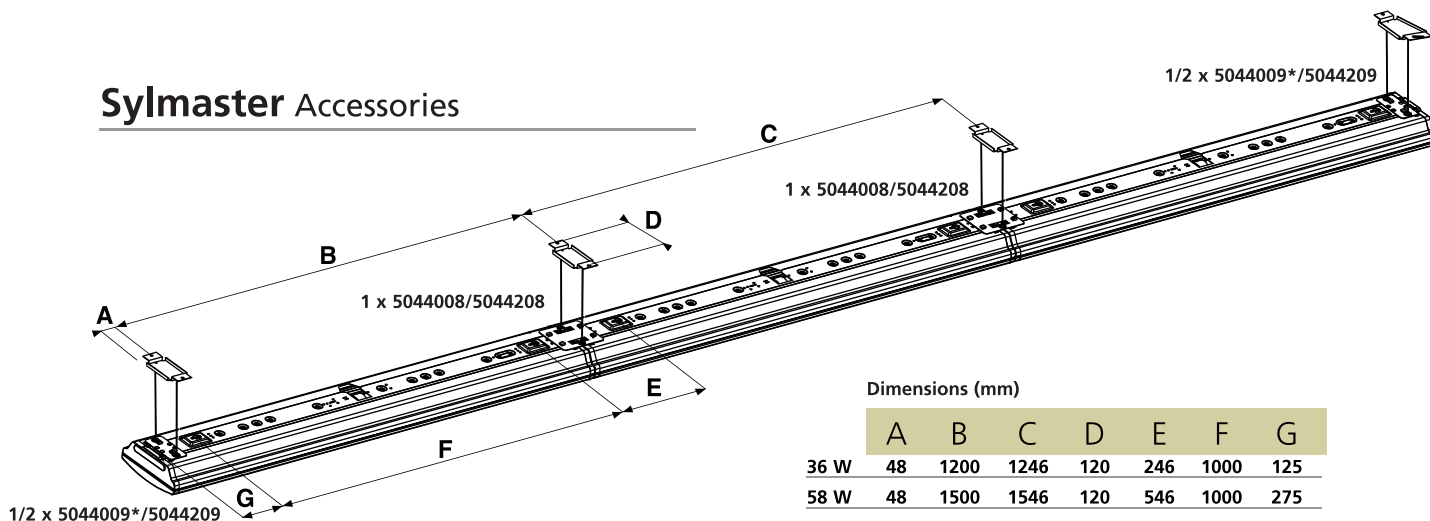
lamp	L	I	H	F	Heaviest weight (kg)
1x36	1250	202	85	1000	4.2
1x58	1550	202	85	1000	5.2



Asymmetrical luminaire installation

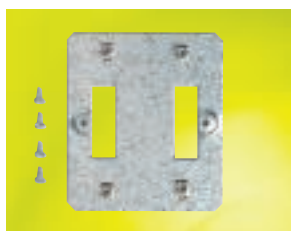


Sylmaster Accessories



Dimensions (mm)

	A	B	C	D	E	F	G
36 W	48	1200	1246	120	246	1000	125
58 W	48	1500	1546	120	546	1000	275



In line kit

5044007

In line connection

Supplied with a sheet steel fishplate and its 4 screws

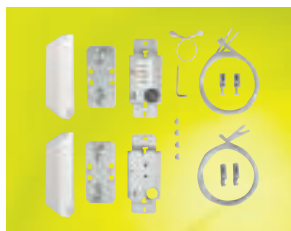


Mains Supply Cable 3x1,5 mm²

5044010

Supply cable

3x1.5 mm² supply cable for a suspension height from 0,5 m to 1,5 m.



Suspension kit

5044009

Suspension kit

Standard suspension kit including 2 steel fishplates, 2 brackets (one 5 way terminal block screwed), 2 covers and 4 adjustable cables (1.5 m length).

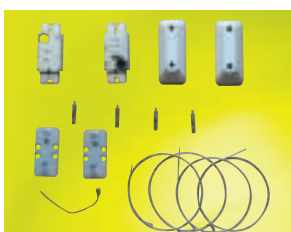


In line suspension kit

5044008

In line single suspension kit

Supplied with a sheet steel fishplate and its 4 screws, 1 steel bracket (5 way terminal block screwed), 1 cover and 2 adjustable cables (1.5 m length).

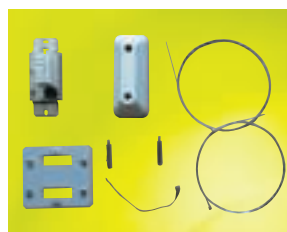


Rapid suspension kit

5044209

Rapid suspension kit

This kit allows a faster installation thanks to Vario-clip cable length adjustable system. It includes also 2 steel brackets (one 5 way terminal block screwed), 2 covers and 4 adjustable cables (1.5 m length).

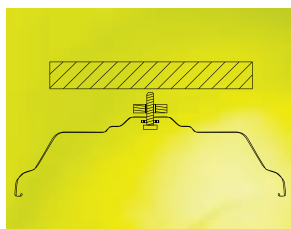


Rapid in line single suspension kit

5044208

Rapid in line single suspension kit

Supplied with a sheet steel fishplate and its 4 screws. This kit allows a faster installation thanks to Vario-clip cable length adjustable system. It includes also a steel bracket (one 5 way terminal block screwed), 1 cover and 2 adjustable cables (1.5 m length).



Spacer Ø 15 mm cable

5044012

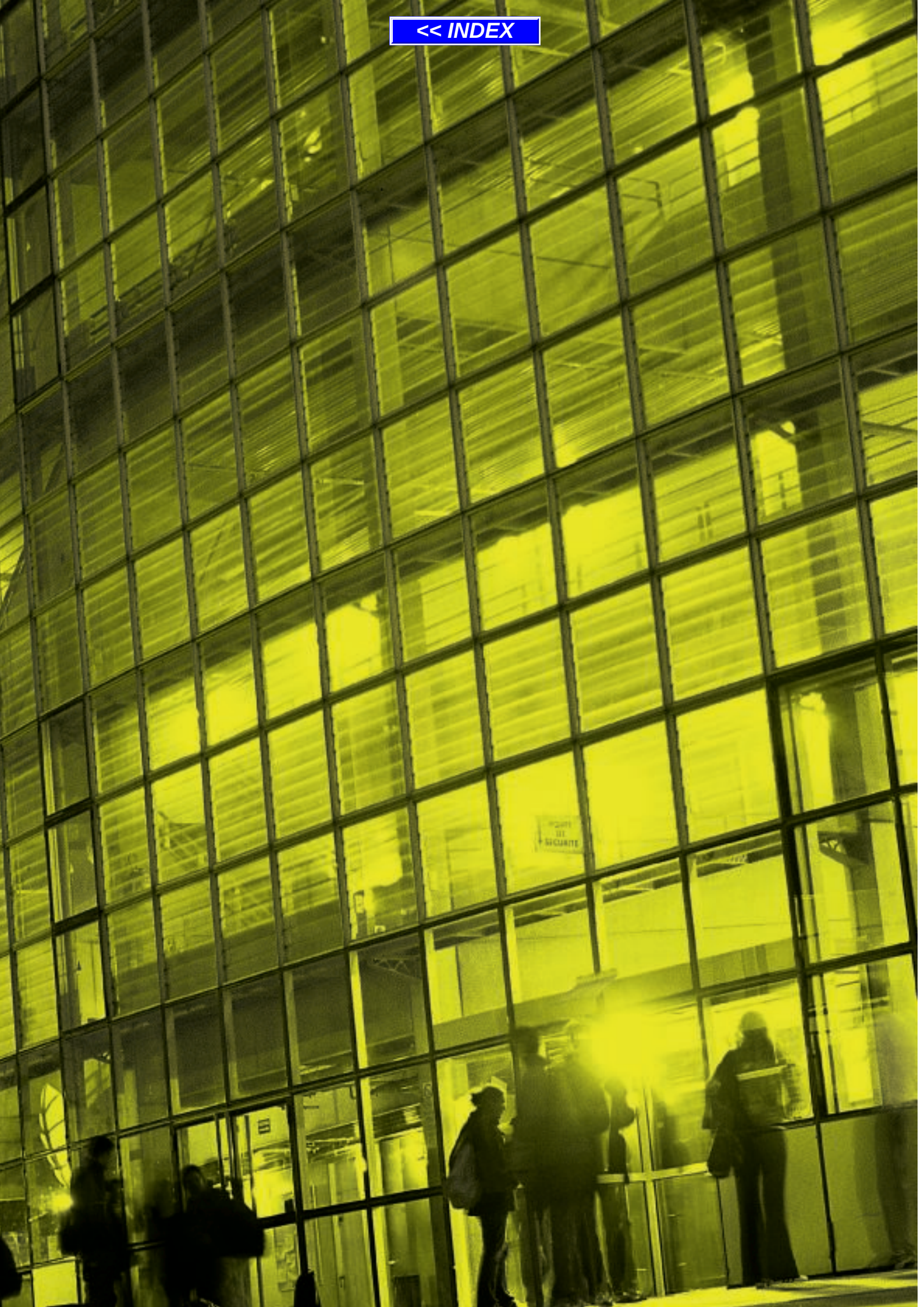
Spacer for Ø15 mm supply cable



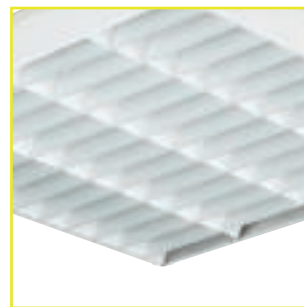
Track suspension set adaptors

For mounting and connecting surface fluorescents onto track.

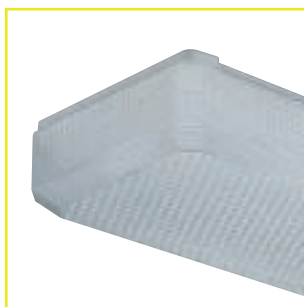
Max. 4A one phase (L1)	2011350
Max. 4A three phase (L3)	2019213



T8 ø26 Surface or wall mounted luminaires



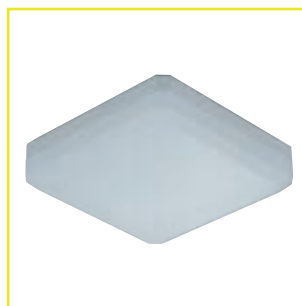
P.64



P.65



P.66



P.67



P.67



P.68



P.69

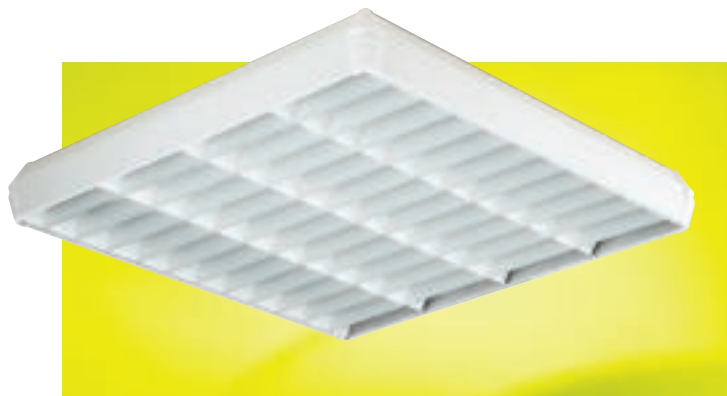


P.69

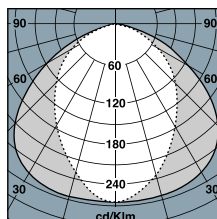


P.69

Sylfit White painted louvre



SYLFIT 4x18 PL



Wattage	LOR	UTE	DFF	Visual Quality Class for Illuminance
4x18	60%	0,60D	100%	A for E=1000 lx



— Transversal plane
- - - Longitudinal plane

Applications

Tertiary and commercial sector: offices, stores.

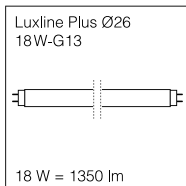
- > Square surface mounted
- > Visual comfort.
- > High output.

Louvre description

Longitudinal sides and flat cross blades in white painted sheet steel.

Body description

Square surface mounted for 4x18W lamps. Body made of sheet steel white laquered. "Lift and tilt" mounting.

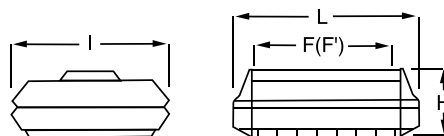


B2 Ballasts

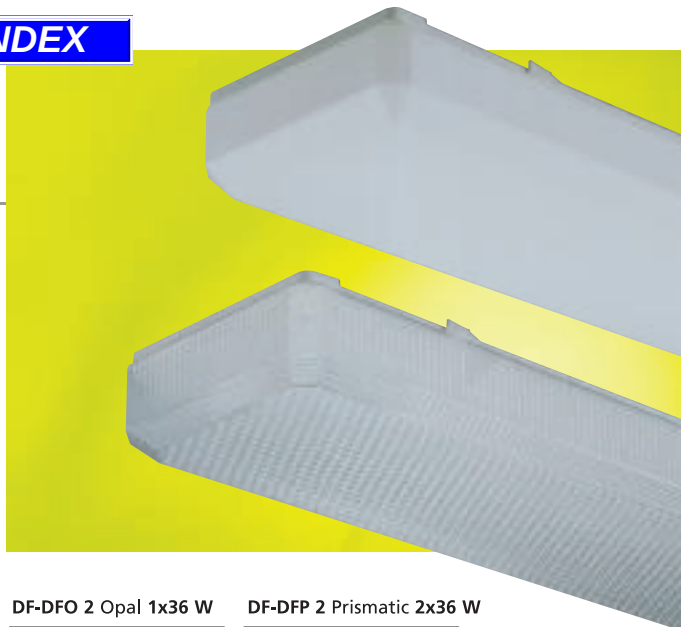
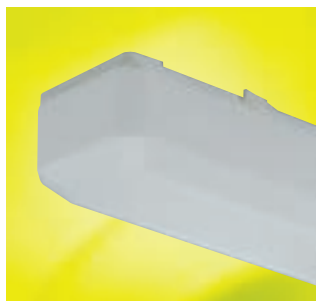
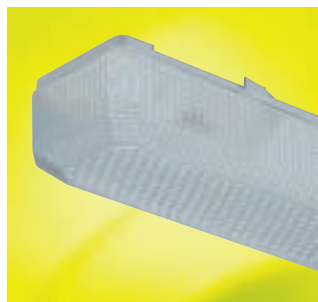
Sylfit 4x18 W PC	0055162
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dimensions (mm)

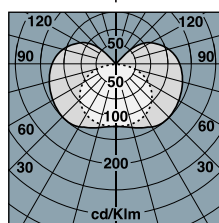
lamp	L	I	H	F	F'	Heaviest weight (kg)
4x18	665	665	87	316	316	8.2



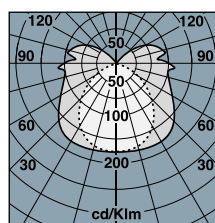
DF-DFO 2/DF-DFP 2



DF-DFO 2 Opal 1x36 W



DF-DFP 2 Prismatic 2x36 W



— Transversal plane
- - - Longitudinal plane

— Transversal plane
- - - Longitudinal plane

- > Wide light distribution.
- > Decorative aspect.
- > Easy installation and maintenance.

Gear tray description

White coated flat steel sheet for ø26 mm fluorescent lamps. Two cable entries allowing central or extremity connections. Fixation of the diffuser thanks to metallic rotary lockers.

Diffusers description

Trapezoidal opal (DFO) or transparent prismatic (DFP) in PMMA. It guarantee stable corners, UV resistance as well as an attractive design.

Applications

Tertiary, industrial or commercial sector, Habitat.

Offices, buildings circulations, hospital facilities, commercial establishments, domestic lighting. Surface mounting or suspended thanks to accessories in page 55.

Magnetic Ballasts	NC	PC
DF Gear tray 1x18 W	0043097	
DF Gear tray 1x36 W	0043098	0045079
DF Gear tray 1x58 W	0043099	0045080
DF Gear tray 2x18 W	0043269	
DF Gear tray 2x36 W	0043270	0045081
DF Gear tray 2x58 W	0043271	0045082
DF Gear tray 4x18 W		0045083
Diffusers	Opal (DFO 2)	Prismatic (DFP 2)
Diffuser 1x18 W	0043081	0043091
Diffuser 1x36 W	0043082	0043092
Diffuser 1x58 W	0043083	0043093
Diffuser 2x18 W	0043084	0043094
Diffuser 2x36 W	0043085	0043095
Diffuser 2x58 W	0043086	0043096
Diffuser 4x18 W	0043087	

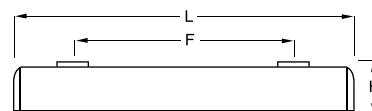
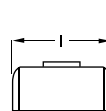
1-10V, A2 Ballasts & Emergency versions available on request.

Please ask your local representative.

Luxline Plus Ø26 18/36/58 W-G13	
18 W = 1350 lm	
36 W = 3350 lm	
58 W = 5200 lm	

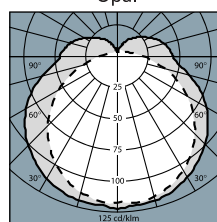
dimensions (mm)

lamp	L	l	H	F	heaviest weight (kg)
1x18	659	106	84	460	1.8
1x36	1270	106	84	900	2.6
1x58	1570	106	84	1200	3.8
2x18	665	190	87	445	3.7
2x36	1270	190	87	900	4.6
2x58	1570	190	87	1200	6.6
4x18	665	665	87	316	4.0

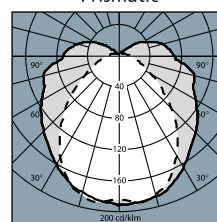


SYLDUST

IP 50

SYLDUST 2x58 W
Opal

— Transversal plane
- - - Longitudinal plane

SYLDUST 2x58 W
Prismatic

— Transversal plane
- - - Longitudinal plane

SYLDUST
Opal diffuser

Wattages	LOR
2x18	58%
1x36	64%
2x36	58%
1x58	64%
2x58	58%

SYLDUST
Prismatic diffuser

Wattages	LOR
2x18	71%
1x36	71%
2x36	71%
1x58	71%
2x58	71%

- > IP 50 rating.
- > Decorative aspect.
- > Easy installation and maintenance.

Description

Back plate made of deep-drawn sheet steel, white stove-enamelled. Diffusers are secured by a plastic rotary toggle and sealed by foam plastic gasket. Two cable entries for through-wiring which can be led out of the luminaire without any problem.

Diffusers description

Trapezoidal opal PMMA diffusers. Trapezoidal transparent PMMA diffusers with prismatic texture. The materials used guarantee stable corners, resistance to ultraviolet light, and attractive design.



Luxline Plus Ø26
18/36/58 W-G13



18 W = 1350 lm
36 W = 3350 lm
58 W = 5200 lm

Applications

Offices, circulation routes in buildings, general rooms, hospital facilities and training establishments.

	A2 Ballasts	B2 Ballasts
Syldust 1x18 W	9090850	9090820
Syldust 1x36 W	9090851	9090821
Syldust 1x58 W	9090852	9090822
Syldust 2x18 W	9090853	9090823
Syldust 2x36 W	9090854	9090824
Syldust 2x58 W	9090855	9090825

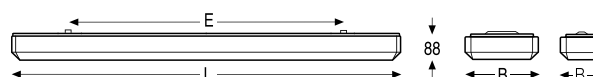
Diffusers	Opal	Prismatic
Syldust 1x18 W	9090830	9090840
Syldust 1x36 W	9090831	9090841
Syldust 1x58 W	9090832	9090842
Syldust 2x18 W	9090833	9090843
Syldust 2x36 W	9090834	9090844
Syldust 2x58 W	9090835	9090845

A2 Ballasts & Emergency versions available on request.

Please ask your local representative.

dimensions (mm)

lamp	L	B	E	heaviest weight (kg)
1x18 W	660	106	460	1.7
1x36 W	1270	106	900	2.6
1x58 W	1570	106	1200	3.5
2x18 W	665	190	445	2.2
1x36 W	1270	190	900	4.3
1x58 W	1570	190	1200	5.7



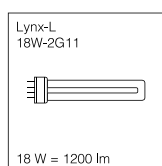
RD-RDO



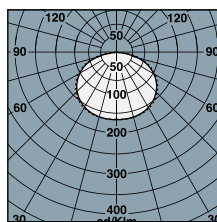
- > Many applications.
- > Functional and economical solution.
- > Waterproof.

Louvre description

White polycarbonate housing with an opal PMMA diffuser. Electrical equipment fixed on a steel sheet internal gear. Diffuser is clipped on the body.



RD-RDO



— Transversal plane
- - - Longitudinal plane

Applications

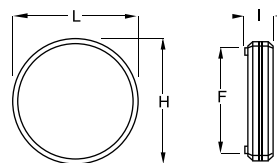
Entrance halls, garage access, corridors, cloakrooms, changing rooms, commercial or industrial areas. Wet and dusty atmospheres.

Magnetic Ballasts	NC
Rd-Rdo 2x18 Lynx-L	0043162

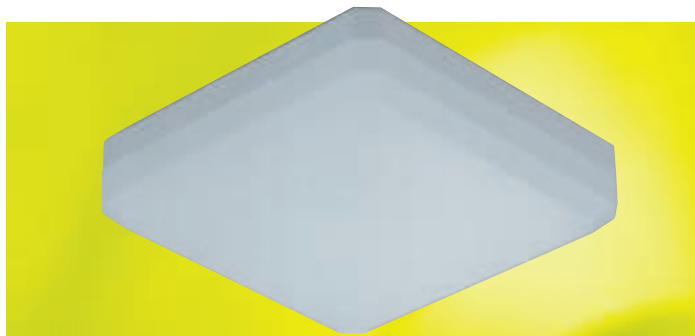
1-10V & Emergency versions available on request. Please ask your local representative.

dimensions (mm)

lamp	L	I	H	F	heaviest weight (kg)
2x18 W Lynx-L	360	83	360	200	2.0



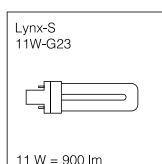
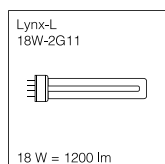
SD-SDO



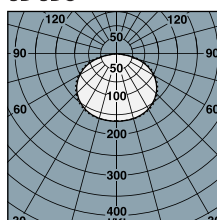
- > Many applications.
- > Functional and economical solution.
- > Waterproof.

Louvre description

White polycarbonate housing with an opal PMMA diffuser. Electrical equipment fixed on a steel sheet internal gear. Diffuser is clipped on the body.



SD-SDO



— Transversal plane
- - - Longitudinal plane

Applications

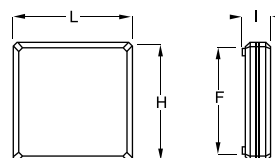
Entrance halls, garage access, corridors, cloakrooms, changing rooms, commercial or industrial areas. Wet and dusty atmospheres.

Magnetic Ballasts	NC
Sd-Sdo 2x11 W Lynx-S	0043105
Sd-Sdo 2x18 W Lynx-L	0043106

1-10V & Emergency versions available on request. Please ask your local representative.

dimensions (mm)

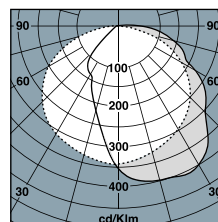
lamp	L	I	H	F	heaviest weight (kg)
2x11 W Lynx-S	303	83	303	200	2.0
2x18 W Lynx-L	303	83	303	200	2.0



"AS" Wall-Mounted Fitting



AS 1x36 W



Wattages	LOR	DFF
1x36	86%	100%
1x58	86%	100%



— Transversal plane
- - - Longitudinal plane

- > Asymmetric reflector.
- > Low glare.
- > High output.

Electrical equipment

230V-50Hz magnetic or electronic, non-compensated starter.

Installation - maintenance

Wall mounting. Suspended with ceiling suspension set.

Description

Body and end-caps in white lacquered sheet steel.

Asymmetric louvre in satin aluminium. Two fixing brackets, with bracket covers. Power supply through bracket or through end.

Applications

Lighting of vertical surfaces: classrooms, interior notice-boards, wall panels.

A2 Ballasts

AS/90 1x36 W	0052445
AS/90 1x58 W	0052446

B2 Ballasts

As 1x36 W NC	0052325
As 1x58 W NC	0052326

Accessories

Ceiling fixation	9052318
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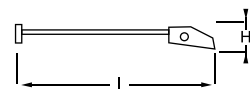
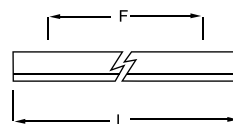
Luxline Plus Ø26
36/58 W-G13



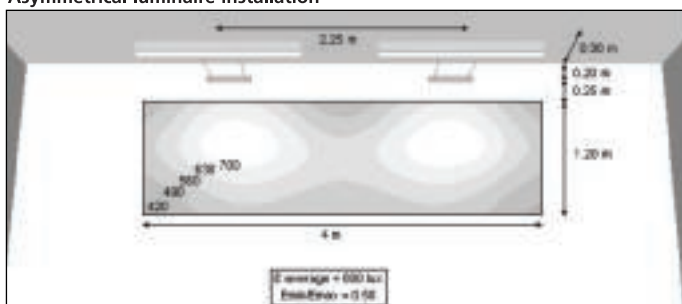
36 W = 3350 lm
58 W = 5200 lm

dimensions (mm)

lamp	L	I	H	F	Heaviest weight (kg)
1 x 36W	1227	900	91	529	4.5
1 x 58W	1527	900	91	529	5.7



Asymmetrical luminaire installation



Surface or wall mounted luminaires Suspension/bracket accessoires

> Reversible wall brackets

Description

Brackets with, 2 independent white coated sheet steel. Fits with Sylmaster, Syl-Louver, Sylwing, DFO, Sylref-E.

Wall to central product length is 900 mm.



Reversible wall brackets

5054689

> Suspension tubes with a rectangular cover. Earth continuity provided.

Suspension with rectangular cover: tubes in white lacquered steel with hooks. Cover locked through washers. Earth continuity.

Centre to centre 550 mm : fixed by nuts through the folding flaps of the housing.

Centre to centre 1000 mm : fixed by nuts through the key holes of the housing. Used for Sylmaster, Syl-louver, DFO, Sylref-E.



Applications

Suspension for surface mounted fixtures and battens.

Suspension block

Suspension A Pavillon 1000 0.3	0083813
Suspension A Pavillon 1000 0.5	0083814
Suspension A Pavillon 1000 1.0	0083815
Suspension A Pavillon 550 0.5	1083817
Suspension A Pavillon 550 1.0	0083818

> Independent tubes

Description

Suspension with 2 independent white lacquered steel tubes: with hooks and screw eye covers. Fixed with nuts through the key holes of the housing. Earth continuity. For Syl-Louver, Sylmaster, DFO, Sylref-E, SSE.



Independant suspension drop rod

Suspension 0.3 m	0083832
Suspension 0.5 m	0083833
Suspension 1.0 m	0083834

Commercial

RECESSED LUMINAIRES

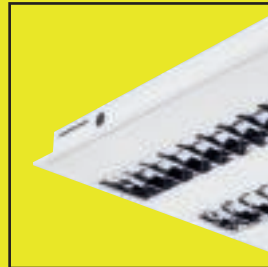
T5 $\varnothing$ 16MM



72
> SYLWING R



78
> SYLWING R CLASS LS



80
> 3-4 T5



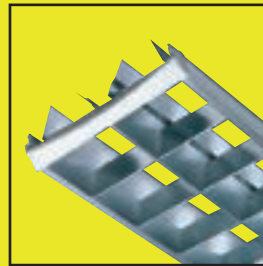
86
> EQUILIBRO BESS 4

OPTICS

PATENTED
OPTICS



22
> T5



38
> T8

Recessed index

T8 ø26MM



88
➤ EQUILIBRO



90
➤ SYLREC 2 / SYLREC



96
➤ SYLPACK 2 / SYLPAC



110
➤ SYLCLEAN



108
➤ ELS



(Body

White coated 0.8 mm sheet steel body.
Micro- perforated panels on longitudinal sides.
The quadruple lamp 600 mm modules are provided with central and lateral micro-perforated panel separations.
BESS or CLASS optics clip in with special springs allowing hanging during maintenance and ensuring an automatic earth continuity.

(Installation & maintenance

Safely fixed to the ceiling through 4 holes Ø6,5mm completes a lay-in mounting.
For pull-up mounting use complementary side arms (optional).
Mains supply through automatic 3 way terminal block (MPM connector).

SYLWING R



SYLWING R is a 50 mm depth fixture, suitable for 300 mm and 600 mm suspended ceiling modules. Lay-in and pull-up (with side arms suspension kit) fixture. A luminaire which can be installed without removing either lamps or louvre frame.

With BESS, no light leak through micro-perforated panels, increasing fixture finishing.

- > High performance : **BESS** or **CLASS** optic equipped
- > Precise luminance control
- > Fast and easy to install
- > Wide range to cover most applications
- > Delivered as a complete equipped fixture

A luminaire which can be installed without removing either lamps or louvre

- 830 or 840 lamps included.
- Rapid connection using an automatic 3 terminal block (MPM connector).
- A "peel-off" film protects louvre during installation.



Photometric data

Lamp light and luminaires performances are given at 25°C.

Accessories

Set of two adjustable side arms in galvanised steel for pull-up mounting.

(Electrical equipment

- > High frequency (A2) or dimmable 1-10 Volts ballast 220-240V 50-60Hz.
- > MPM connection system top located.
- > 2 Ø10 mm cable entries.
- On request :
 - > Wieland connections.
 - > Emergency kit.

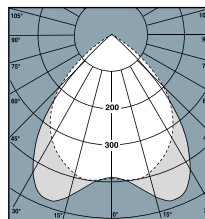
Sylwing R BESS 4



**LAMP
INCLUDED**



SYLWING R BESS 4 3x14 W



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°...C90° planes
1x28	84%	0.84B	100%	L< 200 cd/m² at γ=65°
2x28	84%	0.84B	100%	L< 200 cd/m² at γ=65°
1x35	84%	0.84B	100%	L< 200 cd/m² at γ=65°
2x35	84%	0.84B	100%	L< 200 cd/m² at γ=65°
3x14	82%	0.82B	100%	L< 200 cd/m² at γ=65°
4x14	82%	0.82B	100%	L< 200 cd/m² at γ=65°

- > High performances.
- > Very low brightness louvre.
- > Rapid installation.



Optic description

Specular tri-dimensional optic
200 cd/m² for γ=65°.

600x600 Modules

FHE LAMPS 830

		Emergency	1-10V
		3 hours	dimmable
Sylwing R 1x28 W	0054711	0054450	0054723
Sylwing R 2x28 W	0054712	0054451	0054724
Sylwing R 1x35 W	0054350	0054452	0054352
Sylwing R 2x35 W	0054351	0054453	0054353
Sylwing R 3x14 W	0054709	0054442	0054721
Sylwing R 4x14 W	0054710	0054443	0054722

FHE LAMPS 840

Sylwing R 2x28 W	0054736	0054744
Sylwing R 1x35 W	0054354	0054356
Sylwing R 2x35 W	0054355	0054357
Sylwing R 3x14 W	0054733	0054741
Sylwing R 4x14 W	0054734	0054742

625x625 Modules

FHE LAMPS 840

		1-10V
		dimmable
Sylwing R 1x28 W	0054607	0054629
Sylwing R 2x28 W	0054608	0054630
Sylwing R 1x35 W	0054584	0054586
Sylwing R 2x35 W	0054585	0054587
Sylwing R 3x14 W	0054605	0054627
Sylwing R 4x14 W	0054606	0054628

Accessory

T5 side arms set	5052328
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Other emergency versions available on request. Please ask your local representative.

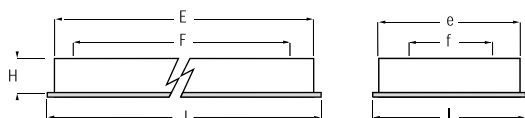
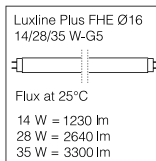
Any other specific configuration can be studied.

dimensions (mm)

lamp	L	L'	E	E'	F	F'	H
1x28	1196	296	1174	274	1050	200	50
2x28	1196	296	1174	274	1050	200	50
1x35	1496	296	1474	274	1050	200	50
2x35	1496	296	1474	274	1050	200	50
3x14	596	596	574	574	440	440	50
4x14	596	596	574	574	440	440	50

dimensions (mm) 625x625 modules

lamp	L	L'	E	E'	F	F'	H
1x28	1246	308.5	1174	274	1050	200	50
2x28	1246	308.5	1174	274	1050	200	50
1x35	1546	308.5	1474	274	1050	200	50
2x35	1546	308.5	1474	274	1050	200	50
3x14	621	621	574	574	440	440	50
4x14	621	621	574	574	440	440	50



Sylwing R BESS 5



**LAMP
INCLUDED**

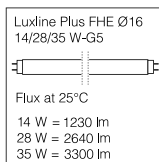


- > High performances.
- > Very low brightness louvre.
- > Rapid installation.



Optic description

Satin tri-dimensional optic.

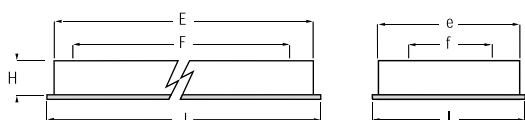


dimensions (mm)

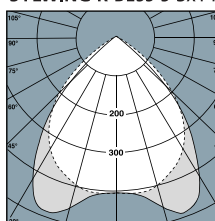
lamp	L	L'	E	E'	F	F'	H
1x28	1196	296	1174	274	1050	200	50
2x28	1196	296	1174	274	1050	200	50
1x35	1496	296	1474	274	1050	200	50
2x35	1496	296	1474	274	1050	200	50
3x14	596	596	574	574	440	440	50
4x14	596	596	574	574	440	440	50

dimensions (mm) 625x625 modules

lamp	L	L'	E	E'	F	F'	H
1x28	1246	308.5	1174	274	1050	200	50
2x28	1246	308.5	1174	274	1050	200	50
1x35	1546	308.5	1474	274	1050	200	50
2x35	1546	308.5	1474	274	1050	200	50
3x14	621	621	574	574	440	440	50
4x14	621	621	574	574	440	440	50



SYLWING R BESS 5 3x14 W



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°,...C90° planes
1x28	83%	0.83B	100%	L < 500 cd/m² at γ=65°
2x28	83%	0.83B	100%	L < 500 cd/m² at γ=65°
1x35	83%	0.83B	100%	L < 500 cd/m² at γ=65°
2x35	83%	0.83B	100%	L < 500 cd/m² at γ=65°
3x14	81%	0.81B	100%	L < 500 cd/m² at γ=65°
4x14	81%	0.81B	100%	L < 500 cd/m² at γ=65°

Applications

Offices with display screens, drawing rooms, meeting rooms, school premises, bank counters, high buildings, public building.

600x600 Modules

FHE LAMPS 830	1-10V
	dimmmable
Sylwing R 1x28 W	0054715 0054727
Sylwing R 2x28 W	0054716 0054728
Sylwing R 1x35 W	0054358 0054360
Sylwing R 2x35 W	0054359 0054361
Sylwing R 3x14 W	0054713 0054725
Sylwing R 4x14 W	0054714 0054726

FHE LAMPS 840

Sylwing R 1x28 W	0054739 0054747
Sylwing R 2x28 W	0054740 0054748
Sylwing R 1x35 W	0054362 0054364
Sylwing R 2x35 W	0054363 0054365
Sylwing R 3x14 W	0054737 0054745
Sylwing R 4x14 W	0054738 0054746

625x625 Modules

FHE LAMPS 840	1-10V
	dimmmable
Sylwing R 1x28 W	0054621
Sylwing R 2x28 W	0054622
Sylwing R 1x35 W	0054592 0054594
Sylwing R 2x35 W	0054593 0054595
Sylwing R 3x14 W	0054619
Sylwing R 4x14 W	0054620

Accessory

T5 side arms set	5052328
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Emergency versions available on request. Please ask your local representative.

Any other specific configuration can be studied.

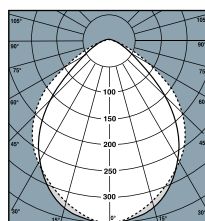
Sylwing R CLASS PA



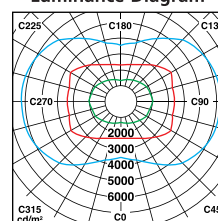
**LAMP
INCLUDED**



**SYLWING R
CLASS PA 3x14W**



Luminance Diagram



— $\gamma=55^\circ$
— $\gamma=65^\circ$
— $\gamma=75^\circ$

— Transversal plane
--- Longitudinal plane

- > New design in louvre.
- > Excellent light distribution uniformity.
- > Good visual comfort.
- > Rapid installation.



Optic description

Cylindrical lamellae and longitudinal mirrors in aluminium.

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
1x28	69%	0.69C	100%	A for E=500 lx
2x28	69%	0.69C	100%	A for E=500 lx
1x35	69%	0.69C	100%	A for E=500 lx
2x35	69%	0.69C	100%	A for E=500 lx
3x14	69%	0.69C	100%	A for E=500 lx
4x14	69%	0.69C	100%	A for E=500 lx

Applications

Offices with display screens, drawing rooms, meeting rooms, school premises, bank counters, high buildings, public buildings.

600x600 Modules

FHE LAMPS 830

Sylwing R 1x28 W	0057410
Sylwing R 2x28 W	0057411
Sylwing R 1x35 W	0057412
Sylwing R 3x14 W	0057414
Sylwing R 4x14 W	0057415

FHE LAMPS 840

Sylwing R 1x28 W	0057416
Sylwing R 2x28 W	0057417
Sylwing R 1x35 W	0057418
Sylwing R 2x35 W	0057419
Sylwing R 3x14 W	0057420
Sylwing R 4x14 W	0057421

Accessory

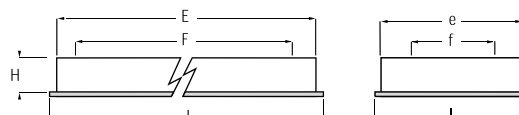
T5 side arms set	5052328
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1-10V & Emergency versions available on request. Please ask your local representative.

Any other specific configuration can be studied.

dimensions (mm)

lamp	L	L'	E	E'	F	F'	H
1x28	1196	296	1174	274	1050	200	50
2x28	1196	296	1174	274	1050	200	50
1x35	1496	296	1474	274	1050	200	50
2x35	1496	296	1474	274	1050	200	50
3x14	596	596	574	574	440	440	50
4x14	596	596	574	574	440	440	50



Luxline Plus FHE Ø16 14/28/35 W-G5
Flux at 25°C
14 W = 1230 lm
28 W = 2640 lm
35 W = 3300 lm

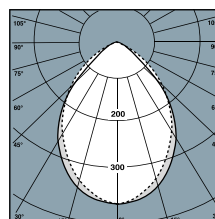
Sylwing R CLASS HR



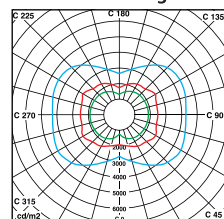
**LAMP
INCLUDED**



**SYLWING R
CLASS HR 3x14W**



Luminance Diagram



— $\gamma=55^\circ$
— $\gamma=65^\circ$
— $\gamma=75^\circ$

— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°, ... C90° planes
1x28	65%	0.65C	100%	A for E=500 lx
2x28	65%	0.65C	100%	A for E=500 lx
1x35	65%	0.65C	100%	A for E=500 lx
2x35	65%	0.65C	100%	A for E=500 lx
3x14	65%	0.65C	100%	A for E=500 lx
4x14	65%	0.65C	100%	A for E=500 lx

- > New design in louvre.
- > Excellent light distribution uniformity.
- > Good visual comfort.
- > Rapid installation.



Optic description

White coated steel cylindrical Lamellae and aluminium longitudinal mirrors.

Applications

Offices with display screens, drawing rooms, meeting rooms, school premises, bank counters, high buildings, public buildings.

600x600 Modules

FHE LAMPS 830

Sylwing R 1x28 W	0057422
Sylwing R 2x28 W	0057423
Sylwing R 1x35 W	0057424
Sylwing R 3x14 W	0057426
Sylwing R 4x14 W	0057427

FHE LAMPS 840

Sylwing R 1x28 W	0057428
Sylwing R 2x28 W	0057429
Sylwing R 1x35 W	0057430
Sylwing R 3x14 W	0057432
Sylwing R 4x14 W	0057433

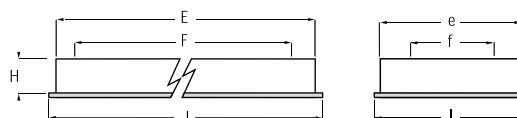
Accessory

T5 side arms set	5052328
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1-10V & Emergency versions available on request. Please ask your local representative.

Any other specific configuration can be studied.

Luxline Plus FHE Ø16 14/28/35 W-G5
Flux at 25°C
14 W = 1230 lm
28 W = 2640 lm
35 W = 3300 lm



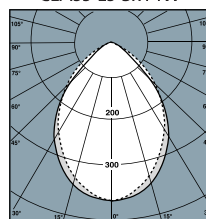
Sylwing R CLASS LS



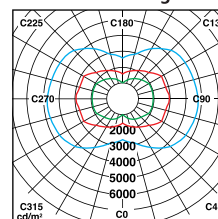
**LAMP
INCLUDED**



SYLWING R
CLASS LS 3x14W



Luminance Diagram



— $\gamma=55^\circ$
— $\gamma=65^\circ$
— $\gamma=75^\circ$

— Transversal plane
--- Longitudinal plane

- > New design in louver.
- > Excellent light distribution uniformity.
- > Good visual comfort.
- > Rapid installation.



Optic description

Aluminium profiled cylindrical Lamellae and aluminium longitudinal mirrors.

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
1x28	64%	0.64C	100%	A for E=500 lx
2x28	64%	0.64C	100%	A for E=500 lx
1x35	64%	0.64C	100%	A for E=500 lx
2x35	64%	0.64C	100%	A for E=500 lx
3x14	64%	0.64C	100%	A for E=500 lx
4x14	64%	0.64C	100%	A for E=500 lx

Applications

Offices with display screens, drawing rooms, meeting rooms, school premises, bank counters, high buildings, public buildings.

600x600 Modules

Emergency 3 hours

FHE LAMPS 830

Sylwing R 1x28 W	0057434	0057446
Sylwing R 2x28 W	0057435	0057447
Sylwing R 1x35 W	0057436	0057448
Sylwing R 2x35 W	0057437	0057449
Sylwing R 3x14 W	0057438	0057450
Sylwing R 4x14 W	0057439	0057451

FHE LAMPS 840

Sylwing R 1x28 W	0057440
Sylwing R 2x28 W	0057441
Sylwing R 1x35 W	0057442
Sylwing R 2x35 W	0057443
Sylwing R 3x14 W	0057444
Sylwing R 4x14 W	0057445

625x625 Modules

FHE LAMPS 840

Sylwing R 1x28 W	0057476
Sylwing R 2x28 W	0057477
Sylwing R 1x35 W	0057478
Sylwing R 2x35 W	0057479
Sylwing R 3x14 W	0057480
Sylwing R 4x14 W	0057481

Accessory

T5 side arms set	5052328
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1-10V & Emergency versions available on request. Please ask your local representative.

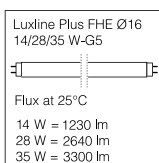
Any other specific configuration can be studied.

dimensions (mm)

lamp	L	L'	E	E'	F	F'	H
1x28	1196	296	1174	274	1050	200	50
2x28	1196	296	1174	274	1050	200	50
1x35	1496	296	1474	274	1050	200	50
2x35	1496	296	1474	274	1050	200	50
3x14	596	596	574	574	440	440	50
4x14	596	596	574	574	440	440	50

dimensions (mm) 625x625 modules

lamp	L	L'	E	E'	F	F'	H
1x28	1246	308.5	1174	274	1050	200	50
2x28	1246	308.5	1174	274	1050	200	50
1x35	1546	308.5	1474	274	1050	200	50
2x35	1546	308.5	1474	274	1050	200	50
3x14	621	621	574	574	440	440	50
4x14	621	621	574	574	440	440	50

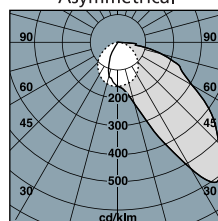


Sylwing R Asymmetrical

**LAMP
INCLUDED**



SYLWING R 1x28 W
Asymmetrical



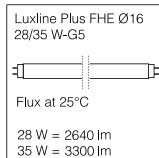
Wattages	LOR
1x28	80%
1x35	80%

— Transversal plane
- - - Longitudinal plane

- > Low glare.
- > High output.
- > Controlled flux distribution.

Optic description

Aluminium asymmetrical reflector designed for T5 lamps.



dimensions (mm)

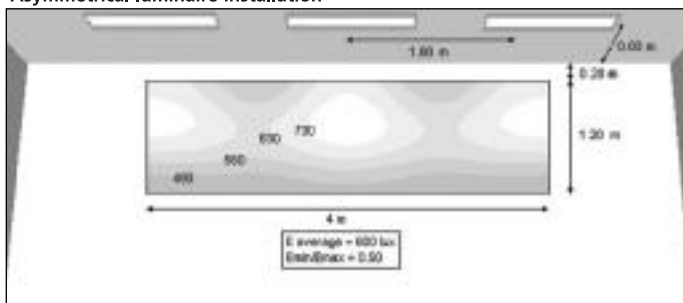
lamp	L	L'	E	E'	F	F'	H
1x28	1196	296	1174	274	1050	200	50
1x35	1496	296	1474	274	1050	200	50

dimensions (mm) 625x625 modules

lamp	L	L'	E	E'	F	F'	H
1x28	1246	308.5	1174	274	1050	200	50
1x35	1546	308.5	1474	274	1050	200	50



Asymmetrical luminaire installation



Applications

Specially designed for walls lighting in any tertiary and commercial sectors. Class rooms, boards, meeting rooms, wall washer in corridors or other displays, exhibition...

600x600 Modules

FHE LAMPS 830

Sylwing R 1x28 W	0054406
Sylwing R 1x35 W	0054407

FHE LAMPS 840

Sylwing R 1x28 W	0054408
Sylwing R 1x35 W	0054409

625x625 Modules

FHE LAMPS 840

Sylwing R 1x28 W	0057484
Sylwing R 1x35 W	0057485

Accessory

T5 side arms set	5052328
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(Body

White pre-coated 0,6 mm sheet steel body.

(Photometric data

Lamp light and luminaires performances are given at 25°C.

(Installation & maintenance

Lay-in or pull-up mounting using complementary side arms.
Mains supply through automatic 3 way terminal block (MPM connector).
Security cable provided.
No need to remove lamps or louvres to install.
A "peel off" film protects the louvres during installation.





A basic recessed fluorescent fitting for general purpose applications. Performance photometry - BESS patented optics. Straggered configuration.

- > Fast and easy installation
- > Simple and economical
- > Lamps included

3·4·T5



(Accessories

- > Set of two ajustable side arms in galvanised steel for pull-up mounting.

(Electrical equipment

- > High frequency (A2) ballast 220-240V / 50-60 Hz.
- > MPM connection system top located.
- > 2 ø10 mm cable entries.

3·4·T5 BESS-12

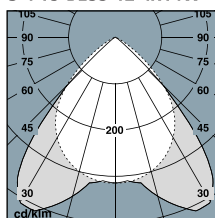
**LAMP
INCLUDED**



- > Very low brightness.
- > Performing louvres.
- > Rapid installation.

**Optic description**

Brilliant aluminium tri-dimensional optic.

3·4·T5 BESS 12 4x14W

— Transversal plane
--- Longitudinal plane

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°...C90° planes
3x14	68%	0.688	100%	L<500 cd/m² at γ=65°
4x14	68%	0.688	100%	L<500 cd/m² at γ=65°

Applications

Offices with display screen, drawing rooms, meeting rooms, school premises, bank counters, public buildings.

lamps

600x600 Modules	830	840
3·4·T5 BESS 12 3x14W	5055750	5055752
3·4·T5 BESS 12 4x14W	5055751	5055753

625x625 Modules	840
3·4·T5 BESS 12 3x14W	5055758
3·4·T5 BESS 12 4x14W	5055759

Accessory

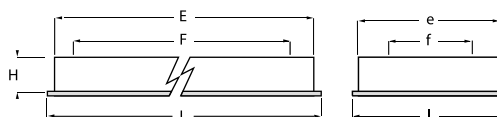
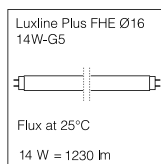
Side arm fixation set	5055762
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dimensions (mm)

lamp	L	l	E	e	F	f	H
3x14	596	596	574	574	440	440	53
4x14	596	596	574	574	440	440	53

dimensions (mm) 625x625 modules

lamp	L	l	E	e	F	f	H
3x14	621	621	574	574	440	440	53
3x14	621	621	574	574	440	440	53



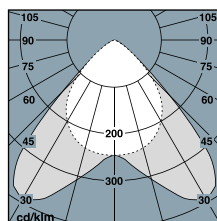
3·4·T5 BESS-20



**LAMP
INCLUDED**



3·4·T5 BESS 20 4x14W



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°, ... C90° planes
3x14	66%	0.66B	100%	L<1000 cd/m² at γ=65°
4x14	66%	0.66B	100%	L<1000 cd/m² at γ=65°

- > Low brightness.
- > Performing louveres.
- > Rapid installation.



Optic description

Satin aluminium tri-dimensional optic.

Applications

Offices with display screen, drawing rooms, meeting rooms, school premises, bank counters, public buildings.

	lamps	
600x600 Modules	830	840
3·4·T5 BESS 20 3x14W	5055754	5055756
3·4·T5 BESS 20 4x14W	5055755	5055757

625x625 Modules	840
3·4·T5 BESS 20 3x14W	5055760
3·4·T5 BESS 20 4x14W	5055761

Accessory

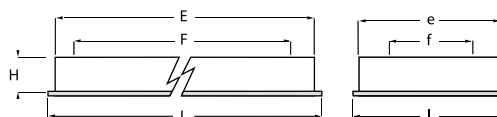
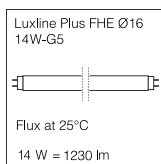
Side arm fixation set	5055762
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dimensions (mm)

lamp	L	I	E	e	F	f	H
3x14	596	596	574	574	440	440	53
4x14	596	596	574	574	440	440	53

dimensions (mm) 625x625 modules

lamp	L	I	E	e	F	f	H
3x14	621	621	574	574	440	440	53
3x14	621	621	574	574	440	440	53





(Description

Body made of white polyester/epoxy powder painted steel. Rigid outer frame covers the T bars of the suspended ceiling or enables the luminaires to rest on the bars.

(Installation & Maintenance

Lay-in installation (on T bars).
Equilibro can be mounted underneath the suspended ceiling by using suspension cables or threaded rods (not supplied) connected directly to the building frame.
Automatic terminal block.
Direct screw fixing allowing earth continuity on the MPD version.





EQUILIBRO

EQUILIBRO represents a new concept in lighting, ideally suited to the exacting demands of the modern workplace. The range combines compact fluorescent lamps benefits with a unique reflector system in a variety of stylish and harmonious bodies, to provide comfortable and original lighting solution.

The light is controlled by computer designed dual reflectors which provide a combination of direct and indirect lighting, eliminating glare and maintaining an optimum level of balanced lighting. The flexibility of the system is achieved through the variety of body and reflector options which means that Equilibro can be specified for use in prestigious offices, bank and meeting rooms.

- > Integration to suspended ceilings with exposed frames T15 mm and T24 mm and concealed fix
- > 2 modules: 600x600 & 625x625
- > 2 body types:
Central symmetrical,
Lateral symmetrical
- > 4 screen types.

(Electrical equipment

- > For single or twin lamps Lynx-L 36W or Lynx-LE 55W, 230V/50Hz high power factor or twin 24W T5 ones.
- > Ballasts: Electronic (A2) or Low loss (B2) ballasts according to lamps types.

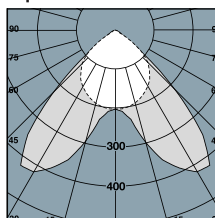
Equilibro Bess 4



NEW



Equilibro BESS 4 2x24 W



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
FH 2x24	69%	0.69D	100%	L<1000 cd/m ² at y=65°

- > Recessed direct and indirect.
- > 600x600 lay-in module.
- > Very low brightness.
- > Bess 4 high performance louvre.
- > Visual comfort.

Applications

Tertiary or commercial sector: open-plan offices, executive offices, meeting rooms, technical offices, halls, specialised stores, department stores, banks...

Screen description:

White coated perforated screen with internal polycarbonate foil. Combined with Specular Bess 4 high performance aluminium louvre.

600x600 Modules

A2 Ballasts

Equilibro Bess 4 2x24W

Emergency

3 hours

0058870 0058871

1-10V versions available on request. Please ask your local representative.

Any other specific configuration can be studied.

Luxline Plus FHO Ø 16
24W-G5

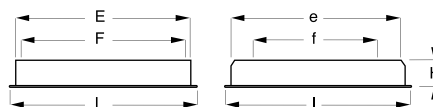


Flux at 25°C

24 W ≈ 1700 lm

dimensions (mm)

lamp	Module	L	I	E	e	F	f	H	heaviest weight (kg)
2x24W T5	600x600	596	596	571	572	552	500	111	7.1

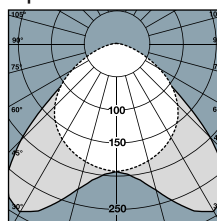


Equilibro Class LS

NEW



Equilibro Class LS 2x24 W



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFP	Visual Quality Class for illuminance
FH 2x24	65%	0.65D	100%	A for E=500 lx

- > Recessed direct and indirect.
- > 600x600 lay-in module.
- > Low brightness louvre.
- > High performance.
- > Visual comfort.

Applications

Tertiary or commercial sector: open-plan offices, executive offices, meeting rooms, technical offices, halls, specialised stores, department stores, banks...

Screen description:

White coated perforated screen with internal polycarbonate foil. Combined with Class LS high performance aluminium louvre.

600x600 Modules

A2 Ballasts

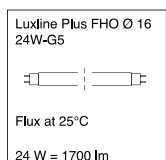
Equilibro Class LS 2x24W	0058882	0058883
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Emergency

3 hours

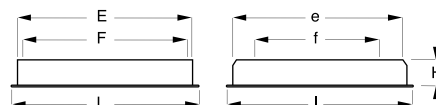
1-10V versions available on request. Please ask your local representative.

Any other specific configuration can be studied.



dimensions (mm)

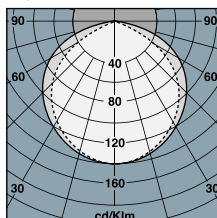
lamp	Module	L	l	E	e	F	f	H	heaviest weight (kg)
2x24 T5	600x600	596	596	571	572	552	500	111	7.1



Equilibro central



Equilibro MPD 2x36 W-L



Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
FC 2x36	45%	0.45D	100%	A for E=500 lx
FC 2x55	45%	0.45D	100%	A for E=300 lx



- > Recessed indirect lighting solution.
- > High performance.

Applications

Tertiary or commercial sector: open-plan offices, executive offices, meeting rooms, technical offices, halls, specialised stores, department stores, banks...

600x600 Modules	Without lamp	3 hours emergency	Lamp
A2 Ballasts			840
Equilibro MPD 2x36 W	0058832	0058855	
Equilibro MPD 2x55 W	0058834	0058856	

Rapid versions	
Rap. Equilibro MPD 2x36 W	0058839
Rap. Equilibro MPD 2x55 W	0058843

1-10V

Equilibro MPD 2x36 W	0058833
Equilibro MPD 2x55 W	0058835

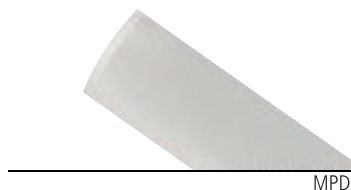
B2 ballasts

Equilibro MPD 2x36 W PC	0058830
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Rapid versions	
Rap. Equilibro MPD 2x36 W PC	0058837

Screen description:

White coated microperforated diffuser, with internal polycarbonate foil.

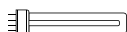


MPD

625x625 Modules	5 way terminal block
A2 Ballasts	
Equilibro MPD 2x36 W	0058847
Equilibro MPD 2x55 W	0058849
1-10V	
Equilibro MPD 2x36 W	0058848
Equilibro MPD 2x55 W	0058850
B2 Ballasts	
NC & PC	
Equilibro MPD 2x36 W	0058858

Other emergency versions available on request. Please ask your local representative.

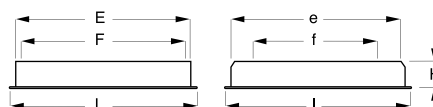
Lynx-L 36W-2G11
Lynx-LE 55W-2G11



36 W = 2900 lm
55 W = 4800 lm

dimensions (mm)

lamp	Module	L	I	E	e	F	f	H	heaviest weight (kg)
2x36 W-L	600x600	596	596	571	572	552	500	111	7.1
2x55 W-LE	600x600	596	596	571	572	552	500	111	6.3



dimensions 625x625 Modules (mm)

lamp	L	I	E	e	F	f	H
2x36 W-L	621	621	596	597	577	500	111
2x55 W-LE	621	621	596	597	577	500	111

Equilibro lateral



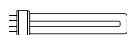
- > Recessed indirect lighting.
- > Lateral screens for visual comfort.



Screens description

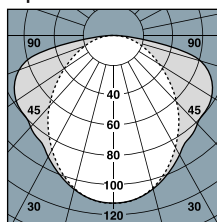
White coated microperforated diffuser with internal polycarbonate foil.

Lynx-L 36W-2G11
Lynx-LE 55W-2G11



36 W = 2900 lm
55 W = 4800 lm

Equilibro L/MP 2x36 W-L



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
FC 2x36	36%	0.36E	100%	B for E=300 lx
FC 2x55	36%	0.36E	100%	C for E=300 lx

Applications

Tertiary or commercial sector : open-plan offices, executive offices, meeting rooms, technical offices, halls, specialised stores, department stores, banks, corridors...

A2 Ballasts

Equilibro BIL MP 2x55 W LE **5052177**

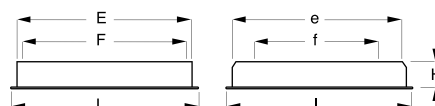
B2 Ballasts

Equilibro BIL MP 2x36 W PC **5052176**

1-10V & Emergency versions available on request. Please ask your local representative.

dimensions (mm)

lamp	Module	L	I	E	e	F	f	H	heaviest weight (kg)
2x36 W-L	600x600	596	596	573	573	554	547	117	5.5
2x55 W-LE	600x600	596	596	573	573	554	547	117	5



Equilibro Comfort



1x55 W



1x36 W

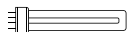


NEW

Screen description:

White coated perforated screen with internal polycarbonate foil. Combined with Specular Comfort high performance aluminium louver.

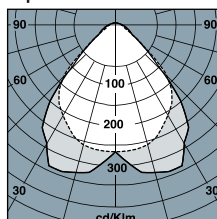
Lynx-L 36W-2G11
Lynx-LE 55W-2G11



36 W = 2900 lm
55 W = 4800 lm

- > Recessed direct and indirect.
- > 600x600 lay-in module.
- > Low brightness louver.
- > High performance.
- > Visual comfort.

Equilibro Comfort 1x55



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
FC 1x36	60%	0.60B	100%	A for E=500 lx
FC 1x55	65%	0.65B	100%	A for E=300 lx

Applications

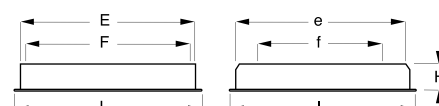
Tertiary or commercial sector: open-plan offices, executive offices, meeting rooms, technical offices, halls, specialised stores, department stores, banks...

600x600 Modules

A2 Ballasts	Emergency	1-10V
Equilibro 1x36 W	0058872	3 hours
Equilibro 1x55 W	0058873	0058875

dimensions (mm)

lamp	Module	L	I	E	e	F	f	H	heaviest weight (kg)
1x36 W-L	600x600	596	596	571	572	552	500	111	7.1
1x55 W-LE	600x600	596	596	571	572	552	500	111	6.3





(Description

White coated sheet steel body.
Sloping sides or a better output ratio in basic models.
Rigid outer frame covers the suspended ceiling
T bars or enables the luminaire to rest on T bars.
Lamps longitudinally centred for optimum output ratio.

(Installation & Maintenance

Pull up or lay in mounting.
On T 24 bars, fix the body on primary extremities or laterally thanks to adjustable lamp holder boxes.
On T15 bars, body installation suspension by using side arms to adjust.
Facility to secure to the building frame by threaded rod through 2 or 4 Ø8.5 mm key holes provided in the back, or by chains.
Central supply connection. Automatic terminal block.
Facility for supply cable retention. Louvres retained by a spring system providing a permanent earth continuity.
Access to the lamps and starters by unhooking the louvre.



SYLREC 2 / SYLREC

(Electrical equipment

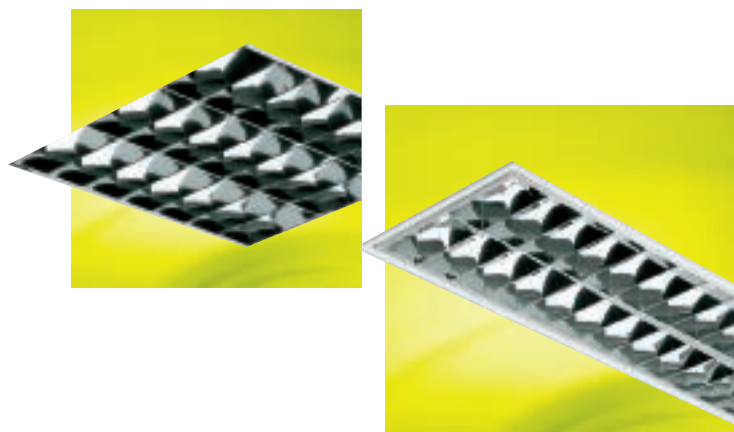
- > Designed for 2, 3 or 4 Ø26 mm fluorescent lamps in 18, 36 or 58W
- > 230V/50 Hz.
- > In-line cables for increased reliability.
- > Supplied with high frequency (A2) or low loss (B2) ballasts.
- > NC or PC power factor correction.
- > 1-10 Volt dimmable & emergency versions available on request.

Complete adaptability: the modular recessed luminaire solution.

SYLREC 2 range offers a large number of low brightness and very low brightness louvers which correspond to all lighting levels required for different applications. Even in the case of very specific work-stations, an adapted solution is possible. A monobloc design with exposed frame of small width and centred lamps, **SYLREC 2** range integrates perfectly 300 mm ceiling module of either exposed T15 mm and T24 mm or concealed fix suspended ceilings, whereas Sylrec fits with 312,5 mm modules.

- > Integration to suspended ceilings with exposed frames T15 mm and T24 mm and concealed fix
- > Sylrec 2 does not require sides arms on 38mm high T(24) bars pull-up mounting achieved by lamp holder movable box
- > Fast lay-in installation
- > Numerous lighting solutions with the range of high-performance louvers
- > Lamps centred in the body for improved output ratio
- > Frame constructed to give body good rigidity
- > Fast and easy to install with a automatic terminal block and a louver suspension system providing:
 - permanent earth continuity
 - easy installation and maintenance

Sylrec 2 / Sylrec Visual 60



- > Very low brightness louvre.
- > Ideal for display screens.
- > Precise control of light.

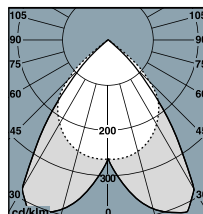
Visual 60 recessed luminaire
L < 200 cd/m² at γ=60° in C0° & C90° plans

Louvre Description

Parabolic mirrors and V shaped transversal lamellae in specular aluminium.



SYLREC2 4x18 W V 60



— Transversal plane
--- Longitudinal plane

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°, ... C90° planes
2x36	58%	0.58B	100%	L < 200 cd/m ² at γ=65°
2x58	58%	0.58B	100%	L < 200 cd/m ² at γ=65°
3x18	58%	0.58B	100%	L < 200 cd/m ² at γ=65°
4x18	60%	0.60B	100%	L < 200 cd/m ² at γ=65°

Applications

Any tertiary or commercial sector offices where display screens are used: drawing offices, CAD, monitoring consoles, technical offices, show rooms, meeting rooms, banks and specialised stores.

Sylrec 2 600x600 Modules

A2 Ballasts 3 way terminal block

Sylrec 2 2x36 W	0058653
Sylrec 2 3x18 W	0058654
Sylrec 2 4x18 W	0058655

B2 Ballasts

Sylrec 2 2x36 W PC	0058650
Sylrec 2 3x18 W PC	0058651
Sylrec 2 4x18 W PC	0058652

Sylrec 625x625 Modules

A2 Ballasts 5 way terminal block

Sylrec 2x36 W	0051926
Sylrec 2x58 W	0051928

B2 Ballasts

Sylrec 2x36 W NC & PC	0058697
Sylrec 2x58 W NC & PC	0058698

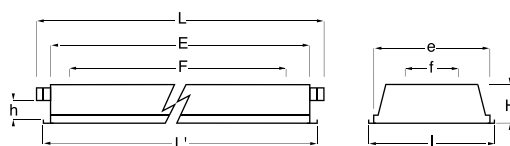
1-10V & Emergency versions available on request. Please ask your local representative.

Accessory

Side arms set	0051933
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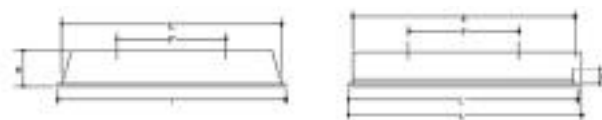
dimensions Sylrec 2 (mm)

lamp	L	L'	I	E	e	F	f	H	h
3x18	622	596	596	574	574	470	255	88	38
4x18	622	596	596	574	574	420	330	88	38
2x36	1222	1196	296	1174	274	880		88	38
2x58	1522	1496	296	1474	274	1180		88	38



dimensions Sylrec (mm)

lamp	L	L'	I	E	E'	F	F'	H	H'
2x36	1246	1246	308.5	1225	287.5	960		92	
2x58	1546	1546	308.5	1525	287.5	960		92	



Luxline Plus Ø26 18/36/58 W-G13
18 W = 1350 lm 36 W = 3350 lm 58 W = 5200 lm

Sylrec 2 Double Optic Satin



- > Low brightness louvre.
- > High output ratio.

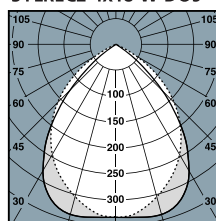


Louvre Description

Parabolic mirrors and V shaped transversal lamellae in satin aluminium.



SYLREC2 4x18 W DOS



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFP	Luminance in all C0°, C15°, ... C90° planes
2x36	57%	0.57B	100%	L < 1500 cd/m² at γ=65°
3x18	58%	0.58C	100%	L < 1000 cd/m² at γ=65°
4x18	59%	0.59B	100%	L < 1000 cd/m² at γ=65°

Applications

Tertiary or commercial sector: open-plan offices, executive offices, meeting rooms, technical offices, halls, specialized stores, department stores, banks and classrooms.

Sylrec 2 600x600 Modules

A2 Ballasts	3 way terminal block
Sylrec 2 2x36 W	0058633
Sylrec 2 3x18 W	0058634
Sylrec 2 4x18 W	0058635
B2 Ballasts	
Sylrec 2 2x36 W PC	0058630
Sylrec 2 3x18 W PC	0058631
Sylrec 2 4x18 W PC	0058632

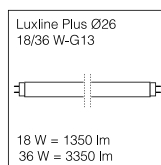
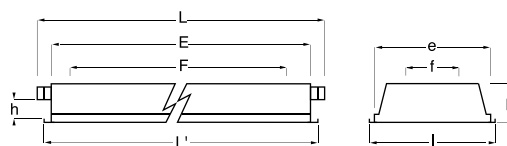
1-10V & Emergency versions available on request. Please ask your local representative.

Accessory

Side arms set	0051933
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dimensions (mm)

lamp	L	L'	I	E	e	F	f	H	h
3x18	622	596	596	574	574	470	255	88	38
4x18	622	596	596	574	574	420	330	88	38
2x36	1222	1196	296	1174	274	880		88	38

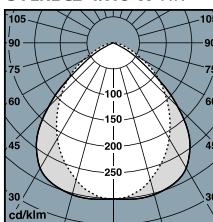


18 W = 1350 lm
36 W = 3350 lm

Sylrec 2 HR Louvre



SYLREC2 4x18 W HR



— Transversal plane
--- Longitudinal plane

Wattages	LOR	UTE	DFP	Visual Quality Class for illuminance
2x36	62%	0.62C	100%	A for E=500 lx
3x18	65%	0.65C	100%	A for E=1000 lx
4x18	64%	0.64C	100%	A for E=1000 lx

- > High output ratio.
- > High lighting level.
- > Visual comfort.



Louvre Description

Satin aluminium louvre with white painted transversal V shaped cross blade.

Sylrec 2 600x600 Modules

A2 Ballasts	3 way terminal block
Sylrec 2 2x36 W	0058612
Sylrec 2 4x18 W	0058613

B2 Ballasts	
Sylrec 2 2x36 W PC	0058610
Sylrec 2 3x18 W PC	0058637
Sylrec 2 4x18 W PC	0058611

1-10V & Emergency versions available on request. Please ask your local representative.

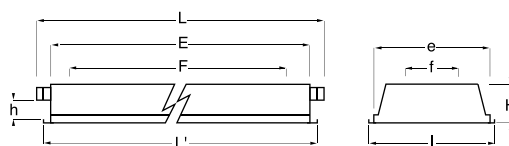
Accessory

Side arms set	0051933
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Luxline Plus Ø26 18/36 W-G13
18 W = 1350 lm 36 W = 3350 lm

dimensions (mm)

lamp	L	L'	l	E	e	F	f	H	h
3x18	622	596	596	574	574	470	255	88	38
4x18	622	596	596	574	574	420	330	88	38
2x36	1222	1196	296	1174	274	880		88	38



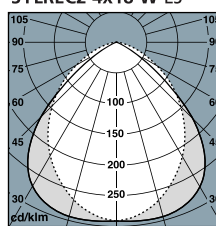
Sylrec 2 / Sylrec Christmas Tree Louvre (LS)



- > High performance.
- > Visual comfort.
- > Decorative aspect.



SYLREC2 4x18 W LS



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
2x36	61%	0.61C	100%	A for E=500 lx
3x18	65%	0.65D	100%	A for E=1000 lx
4x18	63%	0.63C	100%	A for E=500 lx

Applications

Tertiary or commercial sector: open-plan offices, meeting rooms, halls, retrain stores and banks.

Sylrec 2 600x600 Modules

A2 Ballasts 3 way terminal block

Sylrec 2 2x36 W	0058623
Sylrec 2 4x18 W	0058624

B2 Ballasts

Sylrec 2 2x36 W PC	0058620
Sylrec 2 3x18 W PC	0058621
Sylrec 2 4x18 W PC	0058622

Sylrec 625x625 Modules 5 way terminal block

B2 Ballasts	
Sylrec 2x58 W NC & PC	0058696

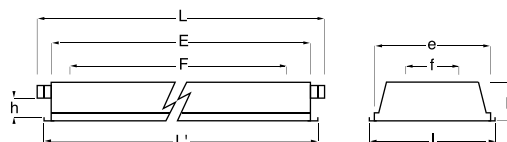
1-10V & Emergency versions available on request. Please ask your local representative.

Accessory

Side arms set	0051933
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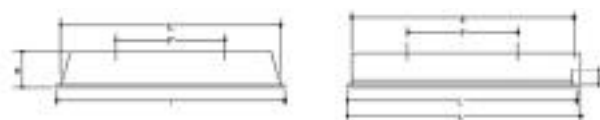
dimensions Sylrec 2 (mm)

lamp	L	L'	I	E	e	F	f	H	h
4x18	622	596	596	574	574	420	330	88	38
3x18	622	596	596	574	574	470	255	88	38
2x36	1222	1196	296	1174	274	880		88	38



dimensions Sylrec (mm)

lamp	L	L'	I	E	E'	F	F'	H	H'
2x58	1546	1546	308.5	1525	287.5	360		92	



Louvre Description

Satin aluminium louvre with transversal V shaped aluminium profiled cross blade.



Luxline Plus Ø26 18/36/58 W-G13
18 W = 1350 lm 36 W = 3350 lm 58 W = 5200 lm



(Description

White coated sheet steel body.
Entirely enclosed monobloc design.
Rigid outer frame of the luminaire, self positions on the ceiling structure.
A wide louvre choice, from very low brightness to white painted.
Prismatic diffuser solution.

(Installation & Maintenance

Sylpac 2: Lay-in mounting installation.
Fixed to the building frame by threaded rods passing through 2 or 4 Ø8.5 mm holes in the back of the luminaire or by chains.
Electrical supply by central cable. Facility to ensure supply cable retention.
Louvres are retained and suspended by a specific spring system, ensuring earth continuity.
Access to the lamps and electrical components by unhooking the louvre.

Sylpac: Pull-up or Lay-in mounting installation.
Fixed to the building frame by threaded rods passing through 2 or 4 Ø8.5 mm holes in the back of the luminaire or by chains or with side arms on T bars.
Electrical supply by central cable.
Facility to ensure supply cable retention.
Louvres are retained and suspended by a specific spring system, ensuring earth continuity.
Access to the lamps and electrical components by unhooking the louvre.

SYLPACK 2 / SYLPAC

SYLPACK 2:

Recessed luminaire for 300 modules

SYLPAC:

Recessed luminaire for 312.5 modules

SYLPACK 2 / SYLPAC modular fluorescent lighting fixtures provide flexible and economic general purpose lighting in applications with false ceilings.

Fast installation is a key feature saving time and money.

In use costs are also low, especially with high-frequency electronic versions.

SYLPACK 2 / SYLPAC ranges cover most popular types of application and are a flexible & low cost alternative for general lighting.

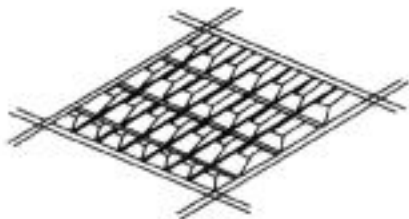
- > Fast and easy installation on T bars
- > Automatic earth continuity (thanks to special louvre spring)
- > Different RAPID versions available (see following page)
- > Integration with suspended ceilings with exposed frames 300 and 312.5 modules for T15 or T24 mm

(Electrical equipment

- > Equipped for Ø26 mm fluorescent lamps.
- > Supplied with electronic (A2) or low loss (B2) ballast 230V/50Hz.
- > Non compensated or Compensated (0.93) power factor correction.
- > 3 or 5 way automatic terminal block available.
- > Emergency versions available.

Rapid versions explanations

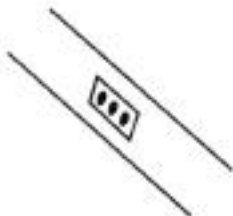
> Rapid



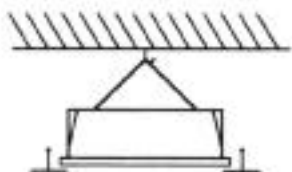
Luminaire + Peel of film



Lamps

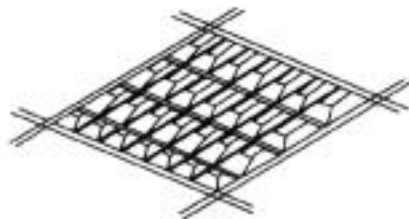


Male Wieland
GST18 connectors



Security cable
to fix on concrete

> MPM



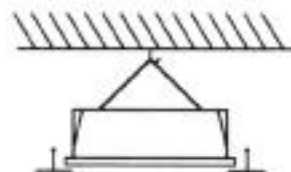
Luminaire + Peel of film



Lamps



MPM Connector

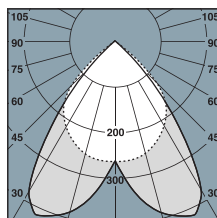


Security cable
to fix on concrete

Sylpack 2 & Sylpac Visual 60



SYLPACK2 4x18 W V60



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°, ..., C90° planes
2x36	58%	0.58B	100%	L < 200 cd/m² at γ=65°
3x18	58%	0.58B	100%	L < 200 cd/m² at γ=65°
4x18	60%	0.60B	100%	L < 200 cd/m² at γ=65°

> Very low brightness louvre.



Louvre description

Parabolic mirrors and V shaped transversal lamellae in specular aluminium. The frame around the louvre improves its rigidity and provides a better fixture aspect.

Applications

Tertiary or commercial sector where display screens are often used: drawing offices, CAD, meeting rooms, technical offices, banks and public premises.

SYLPACK2 600x600 Modules

	3 way	Emergency
A2 Ballasts	terminal block	3 hours 1 hour
Sylpack2 3x18 W	0058490	0058494
Sylpack2 4x18 W	0058540	0058495

RAPID VERSIONS	MPM
	+ 840 Lamp
RAP Sylpack2 4x18 W PC	0054509

B2 Ballast

Sylpack2 2x36 W PC	0058538	
Sylpack2 3x18 W PC	0058486	
Sylpack2 4x18 W PC	0058539	0057321

RAPID VERSIONS	MPM	RAPID
	+ 840 Lamp	
RAP Sylpack2 4x18 W PC	0058802	0058542

SYLPAC 625x625 Modules

	5 way
A2 Ballasts	terminal block
Sylpac 3x18 W	0051116
Sylpac 4x18 W	0051119

B2 Ballasts

Sylpac 3x18 W NC & PC	0051150
Sylpac 4x18 W NC & PC	0051151

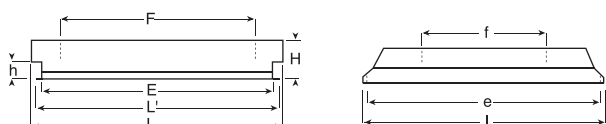
Accessories

Side arms set	0051933
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1-10V & other emergency versions available on request. Please ask your local representative.

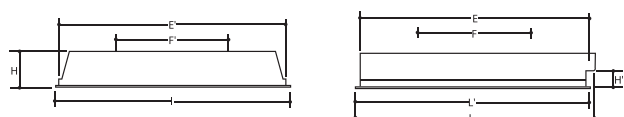
dimensions (mm)

lamp	L	I	L'	E	e	h	H	F	f	heaviest weight (kg)
2x36	1220	296	1196	1173	274	38	88	880		5.7
3x18	620	596	596	573	574	38	88	500	265	4.3
4x18	620	596	596	573	574	38	88	500	265	4.7



dimensions (mm) 625x625 Modules

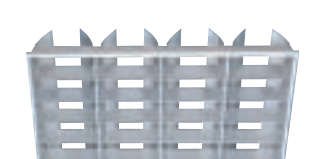
lamp	L	I	L'	E	E'	H	H'	F	F'	heaviest weight (kg)
3x18	633	621	621	600	600	92.5	40	420	189	4.3
4x18	633	621	621	600	600	92.5	40	360	291.5	4.7



Sylpack 2 Double Optic Satin



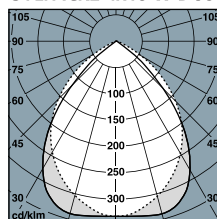
- > Low brightness louvre.
- > Visual comfort.



Louvre Description

Parabolic mirrors and V shaped transversal lamellae in semi-specular aluminium. The frame around the louvre improves its rigidity and provides a better aspect of the fixture.

SYLPACK2 4x18 W DOS



Wattages	LOR	UTE	DFF	Luminance in all C0°, C15°...C90° planes
2x36	57%	0.57B	100%	L< 1500 cd/m² at γ=65°
3x18	58%	0.58C	100%	L< 1000 cd/m² at γ=65°
4x18	59%	0.59B	100%	L< 1000 cd/m² at γ=65°

Applications

Tertiary or commercial sector: offices, halls, technical offices, meeting rooms, banks and public premises.

Sylpack2 600x600 Modules

Wieland (GST18i3)

A2 Ballasts	3 way terminal block	+ 2m supply cable
Sylpack2 2x36 W	0058551	0057269
Sylpack2 3x18 W	0058492	
Sylpack2 4x18 W	0058532	0057261

RAPID VERSIONS

+ 840 Lamp	MPM
RAP Sylpack2 4x18 W	0054507

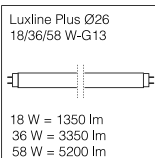
B2 Ballasts

Sylpack2 2x36 W PC	0058530	0057268
Sylpack2 4x18 W PC	0058531	0057260

RAPID VERSIONS

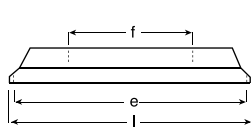
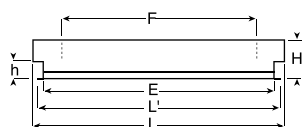
+ 840 Lamp	MPM
RAP Sylpack2 4x18 W PC	0058801

1-10V & Emergency versions available on request. Please ask your local representative.



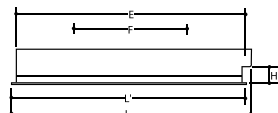
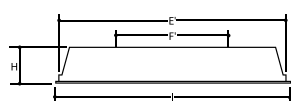
dimensions Sylpack2 (mm)

lamp	L	I	L'	E	e	h	H	F	f	heaviest weight (kg)
2x36	1220	296	1196	1173	274	38	88	880		5.7
3x18	620	596	596	573	574	38	88	500	265	4.3
4x18	620	596	596	573	574	38	88	500	265	4.7



dimensions Sylpack (mm)

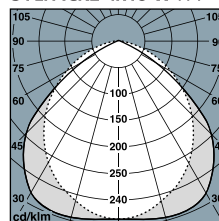
lamp	L	L'	I	E	E'	F	F'	H	H'
1x58	1530	1496	296	1476	276	1000	140	77	38



Sylpack 2 Satin Aluminium Louvre (PA)



SYLPACK2 4x18 W PA



Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
2x36	70%	0.70C	100%	A for E=300 lx
3x18	70%	0.70D	100%	A for E=750 lx
4x18	67%	0.67D	100%	A for E=500 lx

— Transversal plane
- - - Longitudinal plane

- > High output ratio.
- > Visual comfort.

Applications

Tertiary or commercial sector: offices, school, stores, banks, public premises...

Sylpack2 600x600 Modules	3 way	Wieland (GST18i3)	Emergency
A2 Ballasts	terminal block	+ 2m supply cable	1 hour
Sylpack2 3x18 W	0058493		
Sylpack2 4x18 W	0058517	0057257	
Sylpack2 2x36 W	0058549	0057265	
Sylpack 1x36 W		0057273	
Sylpack 1x58 W		0057278	

RAPID VERSIONS

+ 840 Lamp	MPM
RAP Sylpack2 4x18 W	0054504

B2 Ballasts

Sylpack2 2x36 W PC	0058515	0057264	
Sylpack2 3x18 W PC	0058489		
Sylpack2 4x18 W PC	0058516	0057256	0057319
Sylpack 1x36 W PC		0057272	

+ 830 Lamp

Sylpack2 2x36 W PC	0057290
Sylpack2 4x18 W PC	0057293

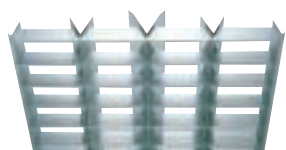
RAPID VERSIONS

+ 840 Lamp	MPM	RAPID
RAP Sylpack2 4x18 W PC	0058806	0058519

1-10V & other emergency versions available on request. Please ask your local representative.

Louvre Description

Satin aluminium louvre with transversal V shaped cross blade.

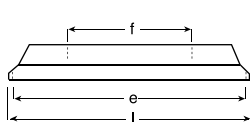
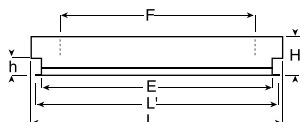


Luxline Plus Ø26
18/36/58 W-G13

18 W = 1350 lm
36 W = 3350 lm
58 W = 5200 lm

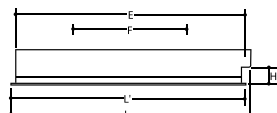
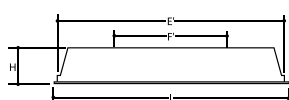
dimensions Sylpack2 (mm)

lamp	L	I	L'	E	e	h	H	F	f	heaviest weight (kg)
2x36	1220	296	1196	1173	274	38	88	880		5.7
3x18	620	596	596	573	574	38	88	500	265	4.7
4x18	620	596	596	573	574	38	88	500	265	4.7



dimensions Sylpack (mm)

lamp	L	L'	I	E	E'	F	F'	H	H'
1x36	1230	1196	296	1176	276	1000	140	77	38
1x58	1530	1496	296	1476	276	1000	140	77	38

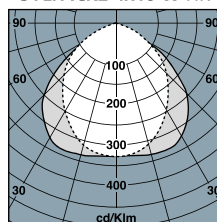


Sylpack 2 HR Louvre



- > High output.
- > Visual comfort.

SYLPACK2 4x18 W HR



Wattages	LOR	UTE	DFP	Visual Quality Class for illuminance
2x36	67%	0.67C	100%	A for E=750 lx
4x18	64%	0.64C	100%	A for E=1000 lx

— Transversal plane
- - - Longitudinal plane

Applications

Tertiary or commercial sector: offices, halls, technical offices, department stores, banks and public premises...

Louvre Description

Satin aluminium louvre with white painted transversal V shaped cross blade.

Sylpack2 600x600 Modules

A2 Ballasts 3 way terminal block

Sylpack2 4x18 W	0058522
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RAPID VERSIONS

+ 840 Lamp	MPM
RAP Sylpack2 4x18 W	0054505

B2 Ballasts

Sylpack2 2x36 W	0058520
Sylpack2 4x18 W	0058521

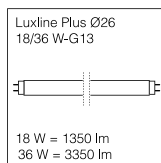
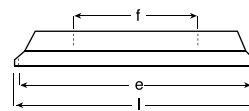
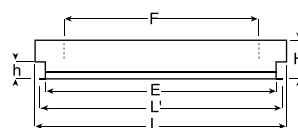
RAPID VERSIONS

+ 840 Lamp	MPM	Rapid
RAP Sylpack2 4x18 W PC	0058805	0058524

1-10V & Emergency versions available on request. Please ask your local representative.

dimensions (mm)

lamp	L	I	L'	E	e	h	H	F	f	heaviest weight (kg)
2x36	1220	296	1196	1173	274	38	88	880		5.7
4x18	620	596	596	573	574	38	88	500	265	4.7



Luxline Plus Ø26
18/36 W-G13

18 W = 1350 lm
36 W = 3350 lm

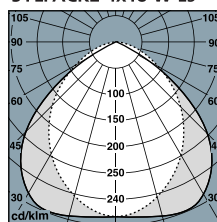
Sylpack 2 & Sylpac Christmas Tree Louvre (LS)



- > High performance.
- > Visual comfort.
- > Decorative appearance.



SYLPACK2 4x18 W LS



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
2x36	67%	0.67C	100%	A for E=500 lx
3x18	68%	0.68D	100%	A for E=1000 lx
4x18	64%	0.64C	100%	A for E=1000 lx

Louvre Description

Satin aluminium louvre with aluminium V shaped profiled cross blade.

Applications

Tertiary or commercial sector: meeting rooms, halls, department stores, banks, public premises...

Sylpack2 600x600 Modules 3 way Wieland (GST18i3) +

A2 Ballasts	terminal block	2m supply cable
Sylpack2 2x36 W	0058550	0057267
Sylpack2 4x18 W	0058527	0057259

RAPID VERSIONS

+ 840 Lamp	MPM
RAP Sylpack2 4x18 W	0054506

B2 Ballasts

Sylpack2 2x36 W PC	0058525	0057266
Sylpack2 3x18 W PC	0058557	
Sylpack2 4x18 W PC	0058526	0057258

+ 830 Lamp

Sylpack2 2x36 W	0057289
Sylpack2 4x18 W	0057295

RAPID VERSIONS

+ 840 Lamp	MPM	RAPID
RAP Sylpack2 4x18 W PC	0058809	0058529

SYLPAC 625x625 Modules 5 way

A2 Ballasts	terminal block
Sylpac 3x18 W	0051117
Sylpac 4x18 W	0051120

B2 Ballasts

Sylpac 3x18 W NC & PC	0051152
Sylpac 4x18 W NC & PC	0051153

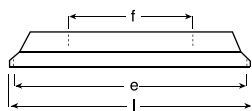
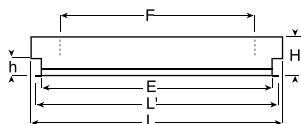
Accessoires

Side arms set	0051933
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1-10V & Emergency versions available on request. Please ask your local representative.

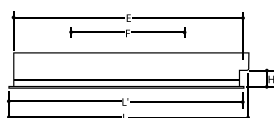
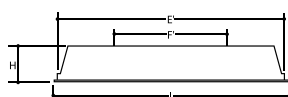
dimensions Sylpack2 (mm)

lamp	L	I	L'	E	e	h	H	F	f	heaviest weight (kg)
2x36	1200	296	1196	1173	274	38	88	880		5.7
3x18	620	596	596	573	574	38	88	500	265	4.3
4x18	620	596	596	573	574	38	88	500	265	4.7



dimensions Sylpac (mm)

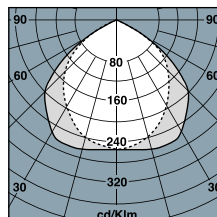
lamp	L	L'	I	E	E'	F	F'	H	H'
3x18	633	621	621	600	600	420	189	92.5	40
4x18	633	621	621	600	600	360	291.5	92.5	40



Sylpack 2 & Sylpac White Painted Louvre



SYLPACK2 4x18 W PL



Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
2x36	61%	0.61D	100%	A for E=500 lx
3x18	65%	0.65D	100%	A for E=750 lx
4x18	62%	0.62D	100%	A for E=1000 lx

> White painted steel louvre.

Applications

Tertiary or commercial sector premises high levels of lighting: offices, stores, public premises...

Sylpack2 600x600 Modules	3 way terminal block	Wieland (GST18i3) + 2m supply cable	Emergency 1 hour
A2 Ballasts			
Sylpack2 4x18 W	0058512	0057255	
Sylpack2 2x36 W	0058546	0057263	
Sylpack 1x36 W		0057271	
Sylpack 1x58 W		0057276	

RAPID VERSIONS

+ 840 Lamp	MPM
RAP Sylpack2 4x18 W	0054503

B2 Ballasts

Sylpack2 2x36 W	0058510	0057262	
Sylpack2 4x18 W	0058511	0057254	0057320
Sylpack 1x58 W		0057275	
+ 840 Lamp			
Sylpack2 4x18 W 840		0057291	

RAPID VERSIONS

+ 840 Lamp	MPM	RAPID
RAP Sylpack2 4x18 W PC	0058803	0058514

Sylpac 625x625 Modules

A2 Ballasts	5 way terminal block
Sylpac 3x18 W	0051118
Sylpac 4x18 W	0051121

B2 Ballasts

Sylpac 3x18 W NC & PC	0051154
Sylpac 4x18 W NC & PC	0051155

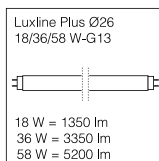
Accessories

Side arms set	0051933
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1-10V & Emergency versions available on request. Please ask your local representative.

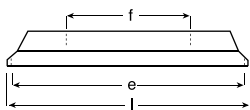
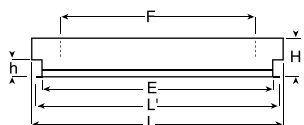
Louvre Description

White painted sheet steel louvre with transversal V shaped cross blade.



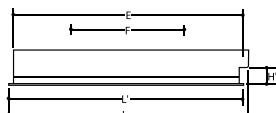
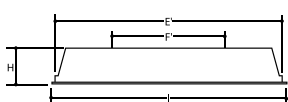
dimensions Sylpack2 (mm)

lamp	L	I	L'	E	e	h	H	F	f	heaviest weight (kg)
1x36	1230	296	1196	1176		38	77	1000	140	
1x58	1530	296	1496	1476		38	77	1000	140	
2x36	1200	296	1196	1173	274	38	88	880		4.92
4x18	620	596	596	573	574	38	88	500	265	4.90



dimensions Sylpac (mm)

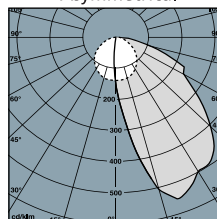
lamp	L	L'	I	E	E'	F	F'	H	H'
3x18	633	621	621	600	600	420	189	92.5	40
4x18	633	621	621	600	600	360	291.5	92.5	40



Sylpack 2 Asymmetrical



SYLPACK2 1x58 W
Asymmetrical



Wattages	LOR
1x36	73%
1x58	73%



— Transversal plane
- - - Longitudinal plane

- > Asymmetrical reflector.
- > Controlled flux distribution.

Louvre Description

Asymmetrical reflector in satin aluminium.

Sylpack2 600x600 Modules 3 way terminal block

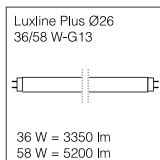
A2 Ballasts

Sylpack2 1x36 W	0058775
Sylpack2 1x58 W	0058776

B2 Ballasts

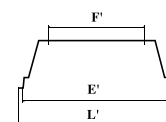
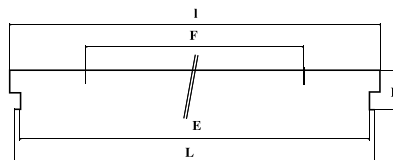
Sylpack2 1x36 W PC	0058572
Sylpack2 1x58 W PC	0058573

1-10V & Emergency versions available on request. Please ask your local representative.

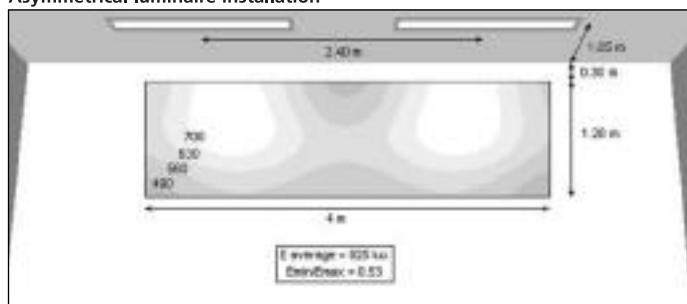


dimensions (mm)

lamp	L	L'	I	E	E'	F	F'	H
1x36	1196	296	1220	1173	274	880	180	88
1x58	1496	296	1520	1473	274	880	180	88



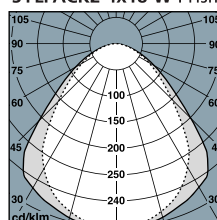
Asymmetrical luminaire installation



Sylpack 2 Prismatic Diffuser



SYLPACK2 4x18 W Prismatic



Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
2x36	52%	0.52C	100%	A for E=500 lx
3x18	51%	0.51D	100%	A for E=1000 lx
4x18	51%	0.51D	100%	A for E=1000 lx



— Transversal plane
- - - Longitudinal plane

- > Wide light distribution.
- > Decorative aspect.
- > Easy installation.

Diffuser description

Prismatic diffuser in PETG fixed in a sheet steel frame.

Applications

Tertiary or commercial sector premises requiring high levels of lighting.
Offices, buildings circulations, hospital facilities, commercial establishments.

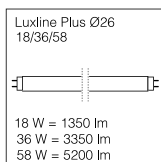
Sylpack2 600x600 Modules	3 way	Emergency
A2 Ballasts	terminal block	3 hours
Sylpack2 3x18 W	0057350	0057352
Sylpack2 4x18 W	0057351	0057353

1-10V & Emergency versions available on request. Please ask your local representative.

Sylpac 625x625 Modules	5 way
B2 Ballasts	terminal block
Sylpac 2x36 W NC& PC	0051105
Sylpac 2x58 W NC& PC	0051106
Sylpac 3x18 W NC& PC	0051107
Sylpac 4x18 W NC& PC	0051108

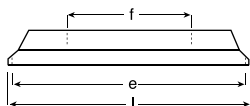
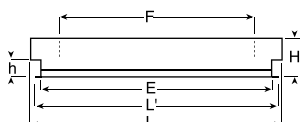
Accessory

Side arms set	0051933
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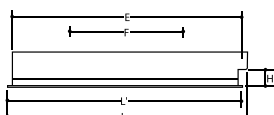
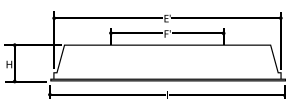
dimensions Sylpack 2 (mm)

lamp	L	I	L'	E	e	h	H	F	f	heaviest weight (kg)
2x36	1200	296	1196	1173	274	38	88	880		4.92
3x18	620	596	596	573	574	38	88	500	265	4.90
4x18	620	596	596	573	574	38	88	500	265	4.90



dimensions Sylpac (mm)

lamp	L	L'	I	E	E'	F	F'	H	H'
2x36	1246	1246	308.5	1225	287.5	960		92	
2x58	1546	1546	308.5	1525	287.5	960		92	
3x18	633	621	621	600	600	420	189	92.5	40
4x18	633	621	621	600	600	360	291.5	92.5	40





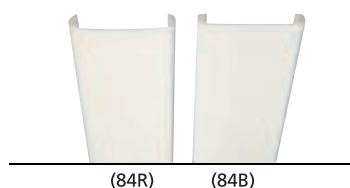
ELS Opal Diffuser



ELS Opal Diffuser

Wattages	LOR	UTE
2x36	42%	0.42E

> Recessed luminaire for module 100 strip ceilings.



Diffuser description

White lacquered steel body, white lacquered central bar for duo model.
Sliding fixing plates for fitting on to the supporting sections.
Methacrylate opal diffuser with edges round (84R) or square (84B).

Applications

Tertiary sector or commercial with module 100 strip ceiling: offices, reception halls, walkways, public premises...

B2 Ballasts

Non compensated

ELS 2x18 W NC	0054445
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Parallel compensated

ELS 1x36 W PC	0054529
ELS 2x36 W PC	0054543
ELS 1x58 W PC	0054635
ELS 2x58 W PC	1054640

Opal diffuser with round edges (84R)

ELS 1x18 W	0046149
ELS 1x36 W	0046151
ELS 1x58 W	0046153

Opal diffuser with square edges (84B)

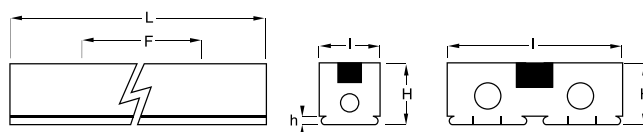
ELS 1x36 W	0046152
ELS 1x58 W	0046154

For twin version, 2 diffusers have to be ordered

Luxline Plus Ø26 18/36/58 W-G13
18 W = 1350 lm 36 W = 3350 lm 58 W = 5200 lm

dimensions (mm)

lamp	L	I	H	h	F	Weight heaviest (kg)
1x36W	1230	100	82	15	700	3.30
1x58W	1530	100	82	15	900	4.20
2x18W	620	200	62	15	400	3.15
2x36W	1230	200	62	15	700	3.65
2x58W	1530	200	62	15	900	7.50



ELS Lacquered Grid



ELS Lacquered Grid

Wattages	LOR	UTE
2x36	32%	0.32C

> Recessed luminaire for module 100 strip ceilings.

Louvre Description

White lacquered steel body, white lacquered central bar for duo model.

Sliding fixing plates for fitting on to the supporting sections.

Lacquered grid with cells 17x17, clipped on to the body.

Applications

Tertiary sector or commercial with module 100 strip ceiling: offices, reception halls, walkways, public premises...

B2 Ballasts

Non compensated

ELS 2x18 W NC	0054445
---------------	---------

Parallel compensated

ELS 1x36 W PC	0054529
ELS 2x36 W PC	0054543
ELS 1x58 W PC	0054635
ELS 2x58 W PC	1054640

Lacquered grid

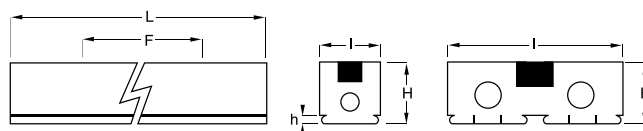
ELS 1x18 W	0046156
ELS 1x36 W	0046158
ELS 1x58 W	0046164

For twin version, 2 lacquered grids have to be ordered

Luxline Plus Ø26 18/36/58 W-G13	
18 W = 1350 lm	
36 W = 3350 lm	
58 W = 5200 lm	

dimensions (mm)

lamp	L	I	H	h	F	Weight heaviest (kg)
1x36W	1230	100	82	15	700	3.30
1x58W	1530	100	82	15	900	4.20
2x18W	620	200	62	15	400	3.15
2x36W	1230	200	62	15	700	3.65
2x58W	1530	200	62	15	900	7.50





Sylclean is designed to fit into a false ceiling with specific cutting size (see enclosed dimensions) or standard 600x600 modules.

(Description

Rigid body and gear tray in white painted sheet steel. Electrical equipment screwed and mounted onto removable tray gear. Standard equipment includes power factor correction (PC), centralised cabling, standard starter 230V/50Hz. Automatic 3 way terminal block. Gasket between the glass and the body to ensure dust and waterproofness. Compressible gasket between the body and the ceiling. Tempered glass (6 mm) retained by 2 plastic safety ties.

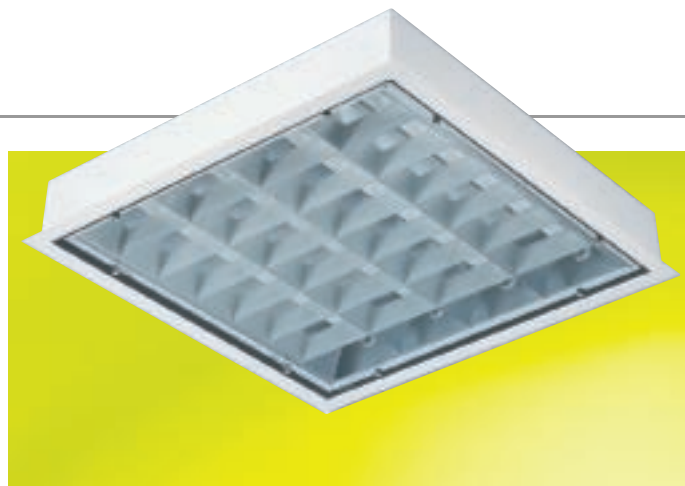
(Installation & Maintenance

Fixed to the building frame by threaded rods passing through 4 holes Ø8mm in the back of the luminaires. Rubber washers maintain dust tightness. Sylclean supplied with a set of rubber and metallic washers to ensure the waterproofness at the fixing points. The protection glass is fastened by a set of screws and sealing washers. Cross 4mm diameter screw (torque: 1.2 Nm). 2 plastic safety ties maintain the glass to the body of the luminaire for maintenance operations. The louvre is held in place by 4 fixing springs. A built-in waiting position provides an easy access to the lamps and gear tray. Central cable entry via a waterproof grommet.



Sylclean HR

IP 65



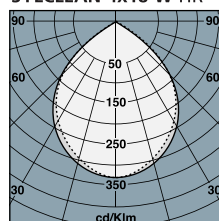
- > Clean room luminaire.
- > Shock resistance.
- > High output ratio.

Recessed luminaires equipped for 2x36W, 2x58W or 4x18W 26 mm diameter fluorescent lamps.

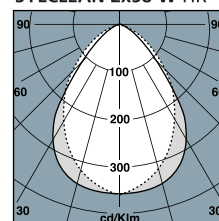
Louvre description

Longitudinal mirrors in satin aluminium and white lacquered cross blade. Permanent earth connection. Louvre retained by spring system.

SYLCLEAN 4x18 W HR



SYLCLEAN 2x58 W HR



— Transversal plane
--- Longitudinal plane

— Transversal plane
--- Longitudinal plane

Wattages	LOR	UTE	DFF	Visual Quality Class for illuminance
2x36	60%	0.60C	100%	A for E=1000 lx
2x58	60%	0.60C	100%	A for E=750 lx
4x18	62%	0.62C	100%	A for E=1000 lx

Applications

Clean room luminaires designed for dust controlled and high hygiene areas: laboratories, electronic industry, hospitals.

600x600 Modules

		Emergency	
A2 Ballasts		3 Hours	
Sylclean 4x18 W		9058928	9058929
B2 Ballasts			
Sylclean 2x36 W PC	0052330		
Sylclean 2x58 W PC	0052331		
Sylclean 4x18 W PC	0052332	5052333	

On request:

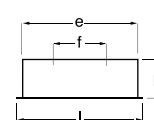
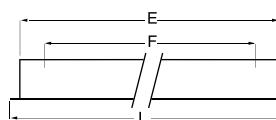
- Surface mounted version.
- 2 x36 W, 2x58 W, 4 x 18 W models with specular double parabolic louvre.

Other A2 & emergency versions available on request. Please ask your local representative.

Luxline Plus Ø26 18/36/58 W-G13
18 W = 1350 lm 36 W = 3350 lm 58 W = 5200 lm

dimensions (mm)

lamp	L	I	E	e	F	f	H	heaviest weight (kg)
2x36	1333	383	1293	343	954	200	110	16.0
2x58	1633	383	1593	343	1254	200	110	24.0
4x18	708	708	668	668	350	350	110	20.0
4x18	612	612	572	572	300	255	100	20.0



Industrial

BATTENS / INDUSTRIAL REFLECTORS



116
➤ SYLFAST/SSE



124
➤ SYLREF-E

WATERPROOF RANGES



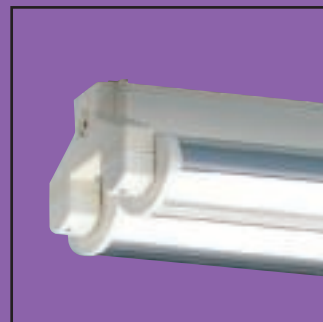
130
➤ SYLPROOF-CAP



134
➤ SYLPROOF-PRO



140
➤ SYLFOG



144
➤ SYLFOG (-25°/-50°C)

HIGH BAY & LOW BAY FIXTURES



154
➤ SBH O-SBH S



158
➤ ALIOTH



161
➤ ALIOTH PMMA



162
➤ YAREN

index



145
➤ SYLFOG (+60°C)



146
➤ R-POP2



148
➤ PST



SSE Battens Industrial reflectors



P.118



P.120



P.120



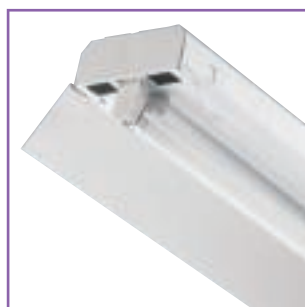
P.121



P.122



P.123



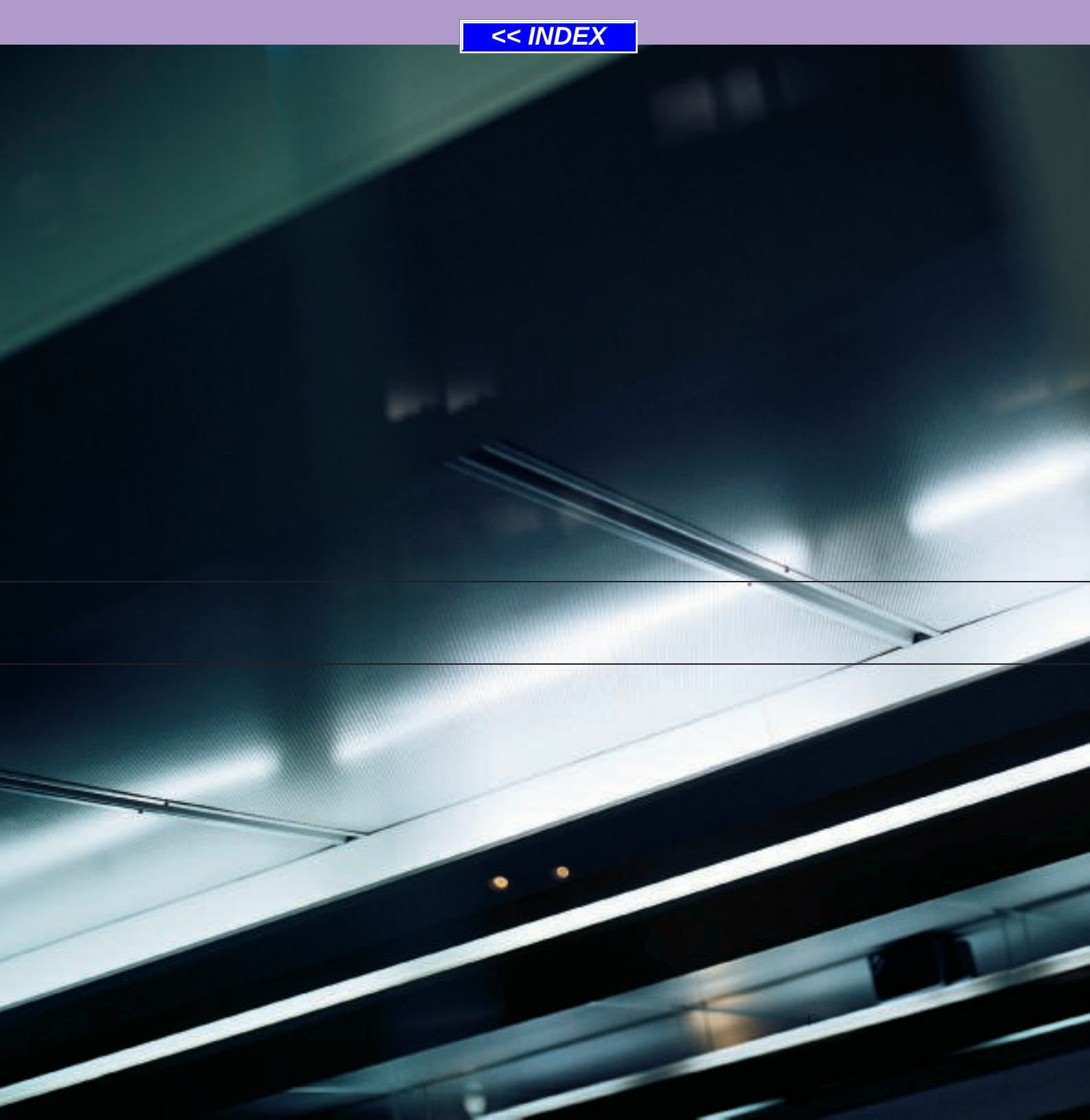
P.126



P.126



P.127



(Description

SYLFAST T5:

White coated sheet steel body and cover slid on the body.

SSE T8:

White coated sheet steel body and cover clipped onto the body.
End caps clipped on to the body, retaining lamp holders.

SMI:

White coated sheet steel body and polycarbonate fixing tray, for miniature fluorescent lamps 6, 8 and 13 W SMI with lamp is fully equipped. Without lamp version, lamp holders and starter have to be clipped.

(Installation & Maintenance

Wall or ceiling mounted,
Suspended thanks to drop rods,
Chains, or a trunking system using the 6 mm diameter key holes.

Cable supply through central hole on the back of the batten or
via a knock-out in the end cap.

(Photometric data

Lamp light output and luminaires performances are given at **25°C**.

SYLFAST/SSE

- > Simplicity
- > Performance
- > Compact shape for Ø16 & Ø26 mm fluorescent lamps
- > Easy installation

Using a compact shape and a variety of attachments **SSE BATTENS**, in single or twin lamps versions, can be used in a variety of different applications.

Different attachments:

- semi-reflectors
- reflectors
- diffusers

(Electrical equipment

> SYLFAST T5

Pre-wired high frequency (A2) ballasts either FHO or FHE lamps, 1-10V dimmable versions.
Lamp holders clipped, Ø10 mm supply cable entry.
Automatic 3 way terminal block.

> SSE T8

Pre-wired battens with high frequency (A2) or low loss (B2) ballasts for single or twin Ø26 mm lamps.
NC, PC or SC power factor correction.
Lamp holders to be clipped.
Ø20 mm central supply entry hole on the body, except the 15 W and 18 W where it is off-centre, or by a (16 mm knock-out in end caps.
230V/50Hz or 240V/50Hz.

> SMI

Pre-wired magnetic (C) ballast with starter for Ø16 mm 6, 8 and 13 W lamps.
2 additional switch versions 8 and 13 W.
Lateral supply entry hole on the body of the batten.

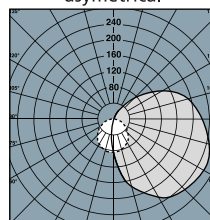
SYLFAST SSE-T5



* 850° C using the diffuser.

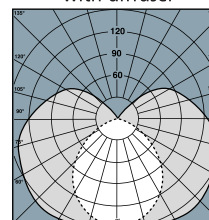


SSE T5 1x35 W
asymetrical



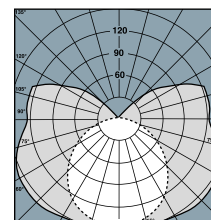
— Transversal plane
--- Longitudinal plane

SSE T5 1w35 W
with diffuser



— Transversal plane
--- Longitudinal plane

SSE T5 1x35 W



— Transversal plane
--- Longitudinal plane

SSE T5 1x35 W asymetrical

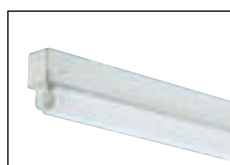
Wattages	LOR	DFF
1x14	76%	71%
1x21	76%	71%
1x28	76%	71%
1x35	76%	71%

SSE T5 1x35 W with diffuser

Wattages	LOR	UTE	DFF
1x14	89%	0.66H+0.23T	74%
1x21	89%	0.66H+0.23T	74%
1x28	89%	0.66H+0.23T	74%
1x35	89%	0.66H+0.23T	74%

SSE T5 1x35 W

Wattages	LOR	UTE	DFF
1x14	94%	0.70H+0.24T	74%
1x21	94%	0.70H+0.24T	74%
1x28	94%	0.70H+0.24T	74%
1x35	94%	0.70H+0.24T	74%



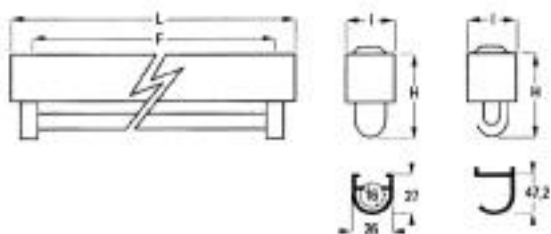
Diffuser

Luxline Plus FHO Ø16 24/39/54/49 W-G5
24 W = 1700 lm
39 W = 3220 lm
54 W = 4450 lm
49 W = 4165 lm

Luxline Plus FHE Ø16 14/21/28/35 W-G5
14 W = 1230 lm
21 W = 1910 lm
28 W = 2640 lm
35 W = 3300 lm

dimensions (mm)

lamp	L	I	H	F	heaviest weight (kg)
Sylfast/SSE-T5					
1x14	578	33.4	64	450	0.8
1x21	878	33.4	64	700	1
1x28	1178	33.4	64	900	1.5
1x35	1478	33.4	64	900	2
Sylfast/SSE-T5 Asymmetrical					
1x14	578	33.4	86.4	450	1
1x21	878	33.4	86.4	700	1.2
1x28	1178	33.4	86.4	900	1.7
1x35	1478	33.4	86.4	900	2.2
Ribbed Diffuser					
1x14	545	26	27	-	0.055
1x21	845	26	27	-	0.085
1x28	1145	26	27	-	0.115
1x35	1445	26	27	-	0.145



Applications

Industrial, tertiary or commercial sectors and housing. Indirect hidden lighting, hotels, retail stores, displays,...

Facility to integrate into false ceilings or in continuous lines.

FHE Lamps

1-10V

Sylfast SSE-T5 1x14 W	0046301	
Sylfast SSE-T5 1x21 W	0046302	0057650
Sylfast SSE-T5 1x28 W	0046303	0057651
Sylfast SSE-T5 1x35 W	0046304	0057652

FHO Lamps

Sylfast SSE-T5 1x24 W	0046382	
Sylfast SSE-T5 1x39 W	0046383	
Sylfast SSE-T5 1x54 W	0046385	
Sylfast SSE-T5 1x49 W	0046384	

Asymmetrical

Sylfast SSE-T5 1x14 W	0046204	
Sylfast SSE-T5 1x21 W	0046205	
Sylfast SSE-T5 1x28 W	0046206	
Sylfast SSE-T5 1x35 W	0046207	

Accessories

Polycarbonate diffuser

14 W/24 W	5046208
21 W/39 W	5046210
28 W/54 W	5046211
35 W/49 W	5046212



SMI-T5



- > Easy installation.
- > Short lenght.

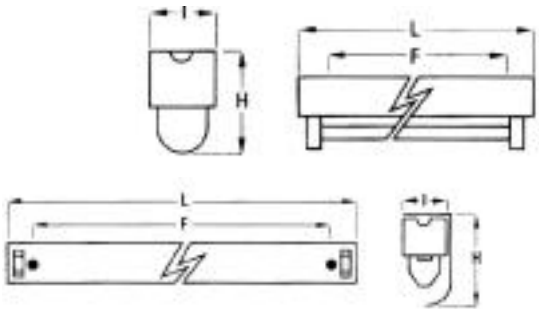
Applications

Industrial, tertiary or commercial sectors and housing, hotels, retail stores,...

B2 Ballasts		+ switch
SMI-T5 1x6 W-NC	0040139	
SMI-T5 1x8 W-NC	0040140	0040144
SMI-T5 1x13 W-NC	0041660	0041666

T5 Short Ø16 6/8/13 W-G5
6 W = 280 lm 8 W = 400 lm 13 W = 880 lm

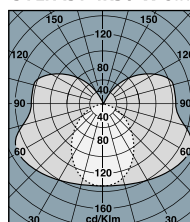
dimensions (mm)					
lamp	L	I	H	F	heaviest weight (kg)
1x6	238	31	54	190	0.53
1x8	314	31	54	267	0.56
1x13	544	31	54	495	0.69
Ministrip with diffuser					
1x8	314	31	73	267	0.8
1x13	544	31	73	495	1.15



SSE-T8



SYLFAST 1x36 W Single



— Transversal plane
 - - - Longitudinal plane

Wattages	LOR	UTE	DFF
1x36	92%	0.65H+0.27T	71%
1x58	94%	0.67H+0.27T	71%
2x36	89%	0.53GH+0.36T	60%
2x58	91%	0.54GH+0.37T	59%

- > Easy installation.
- > Small section.

Applications

Industrial, tertiary or commercial sectors and housing, hotels, retail stores, ...
 Facility to integrate into false ceilings or in continuous lines.

A2 Ballasts

Emergency 3 hours

SSE-T8 1x18 W	0046420	
SSE-T8 1x36 W	0046421	0046160
SSE-T8 1x58 W	0046422	0046162
SSE-T8 2x36 W	0046407	0046161
SSE-T8 2x58 W	0046408	0046163

Non compensated
& parallel compensable

B2 Ballasts

with Lamps

SSE-T8 1x18 W	0084627
SSE-T8 1x36 W	0084628
SSE-T8 1x58 W	0084629

Non
CompensatedParallel
Compensated

B2 Ballasts

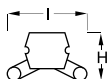
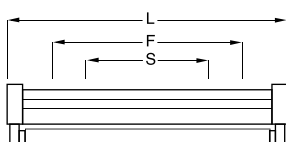
SSE-T8 1x15 W	0046320	
SSE-T8 1x18 W	0046321	0046381
SSE-T8 1x30 W	0046322	0046367
SSE-T8 1x36 W	0046323	0046324
SSE-T8 1x58 W	0046326	0046327
SSE-T8 2x18 W	0046329	
SSE-T8 2x36 W	0046331	0046332
SSE-T8 2x58 W	0046334	0046335

Luxline Plus Ø26
 15/18/30/36/58 W-G13

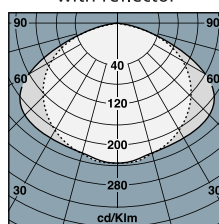
15 W = 950 lm
 18 W = 1350 lm
 30 W = 2400 lm
 36 W = 3350 lm
 58 W = 5200 lm

dimensions (mm)

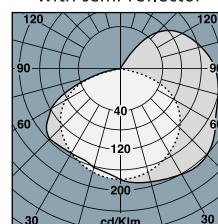
lamp	L	I	H	F	S	Heaviest weight (kg)
1x15	466	51	82	343.5	-	1.05
1x18	618	51	82	495.5	-	1.15
1x30	922.5	51	82	800	550	1.35
1x36	1227	51	82	800	550	1.35
1x58	1527	51	82	800	550	2.40
2x18	618	118	53.5	495.5	-	1.15
2x36	1227	118	53.5	800	550	2.35
2x58	1527	118	53.5	800	550	3.55



REFLECTORS for SSE

SSE Batten 1x36 W
with reflector

— Transversal plane
- - - Longitudinal plane

SSE Batten 1x36 W
with semi-reflector

— Transversal plane
- - - Longitudinal plane

SSE T8 asymmetrical

Wattages	LOR	DFF
1x36	85%	84%
1x58	86%	84%

SSE T8 + reflector

Wattages	LOR	UTE	DFF
1x36	79%	0.79E	100%
1x58	80%	0.80E	100%
2x36	75%	0.75E	100%
2x58	76%	0.76E	100%

> Easy installation.

Description

Adaptable white coated sheet steel casings:
semi-reflector on single batten,
RF reflector: on both.

Applications

Tertiary, industrial or commercial sectors.

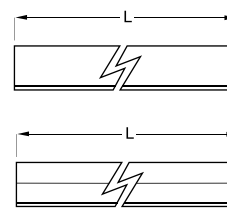
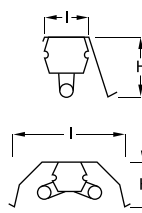
	Reflectors	Semi-reflectors
1x36 W SSE	0046169	0046173
1x58 W SSE	0046170	0046174
2x36 W SSE	0046171	
2x58 W SSE	0046172	

Example of order

SSE-T8 with reflector	
SSE-T8 1x36W	0046324 (product p.121)
SSE reflector 1x36	0046169

dimensions (mm)

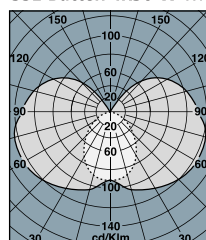
Reflector	L	I	H	Heaviest weight (kg)
Wattage				
1x36	1227	208	110	2.33
1x58	1527	208	110	2.85
2x36	1227	238	68	1.90
2x58	1527	238	68	2.40
Semi-reflector				
Wattage				
1x36	1227	132	110	1.40
1x58	1527	132	110	1.75



DIFFUSERS for SSE



SSE Batten 1x36 W white diffuser



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF
1x36	82%	0.54HJ+0.28T	64%
1x58	82%	0.54HJ+0.28T	64%
2x36	74%	0.34GH+0.40T	46%
2x58	75%	0.34GH+0.41T	45%

- > Easy installation.
- > Diffused light.

Description

Polystyrene clear & opal diffusers for single versions.
Methacrylate opal one for twin versions.

Applications

Tertiary, industrial, commercial or housing sectors.

Diffuser	Clear Polystyrene	Ridged Opal polystyrene	Opal methacrylate
1x15 SSE	0046175	9046220	
1x18 SSE	0046176	9046221	
1x30 SSE	0046177	9046222	
1x36 SSE	0046178	9046223	
1x58 SSE	0046179	9046224	
2x18 SSE			9046186
2x36 SSE			9046187
2x58 SSE			9046188

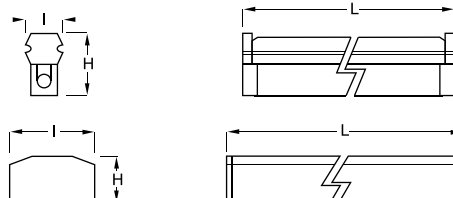
Example of order

SSE-T8 with opal diffuser

SSE-T8 2x36W	0046331 (product p.121)
SSE opal diffuser	9046187

dimensions (mm)

Diffuser	L	I	H	Heaviest weight (kg)
Wattage				
1x15	466	51	88	0.20
1x18	618	51	88	0.24
1x30	922	51	88	0.35
1x36	1227	51	88	0.46
1x58	1527	51	88	0.56
2x18	623	141	81	0.75
2x36	1232	141	81	1.20
2x58	1532	141	81	1.50





(Description

White painted body with fixed end caps,
Ribbed reflectors in white painted sheet steel
or Aluminium.

(Installation & Maintenance

Ceiling mounting using the key hole slots or suspended using chains,
hooks or steel cables.
Central cable entry or through the end caps.
Direct access to starters.



SYLREF-E

Adaptability and simplicity: the qualities that make the difference.

It's because in industrial environment, more than anywhere else, lighting quality is essential to ensure effective working as well as personnel safety, that the **SYLREF-E** has been designed. The luminaire combines efficient lighting with rigidity and ease of installation and maintenance.

Large range of applications: industrial and sporting

- > Easy to install
- > Large range of functional accessories

The choice for efficiency

Added to the ease of installation and maintenance of the **SYLREF-E** range of industrial reflectors, is a range of attachments corresponding to different types of applications.

For industrial or sport facilities, suspended ceilings or not, **SYLREF-E** can be adapted to each situation.

(Accessories

- > White coated sheet steel louvre clipped onto the reflector providing IK 07 energy impact.
- > End caps when using the louvre.
- > Louver fixing jaws.
- > Protective grid made in Ø5 mm zinc rod will withstand IK 08 energy impacts.
- > Retaining bracket wraps around reflector and protective grid (2 per luminaire).
- > Extra end caps clipped over lamp holders with protective grid for added protection

Ability to mount in continuous lines.

(Electrical equipment

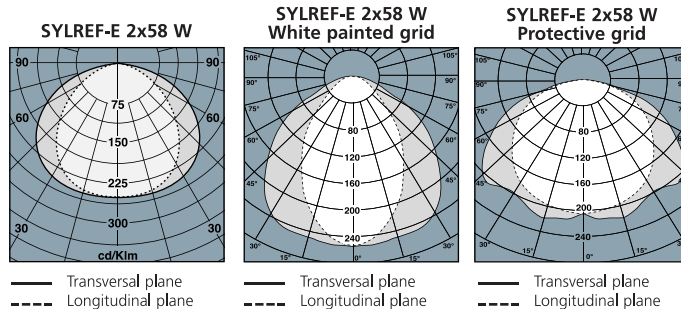
- > Pre-wired luminaire for 1, 2 or 3 fluorescent lamps, 36W or 58W.
- > High frequency (A2 or A3) and low loss (B2) ballasts.
- > Non compensated, parallel power factor correction (PC) or in series (SC).
- > 230V-50Hz versions.
- > Through wiring versions.
- > Dimmable 1-10V and emergency versions on request.

Sylref-E White painted reflector



(1) With protective louvre
(2) With protective grid

- > Fast installation.
- > White coated body.
- > Numerous applications.
- > Functional accessories.



White painted reflector

Wattages	LOR	UTE	DFF
1x36	84%	0.84EG	100%
1x58	84%	0.84EG	100%
2x36	82%	0.82EG	100%
2x58	82%	0.82EG	100%
3x58	81%	0.81E	100%

White louvre

Wattages	LOR	UTE	DFF
2x36	51%	0.51CD	100%
2x58	51%	0.51CD	100%
3x58	51%	0.51CD	100%

Protective grid

Wattages	LOR	UTE	DFF
2x36	76%	0.76EG	100%
2x58	74%	0.74E	100%
3x58	72%	0.72E	100%

Applications

Industrial premises and sport facilities, workshops, warehouses and assembly lines.

		Emergency	
		3 hours	
A2 Ballasts			
Sylref-E 1x36 W	0052104		
Sylref-E 2x36 W	0052105	0054010	
Sylref-E 1x58 W	0052106		
Sylref-E 2x58 W	0052068	0054011	
Sylref-E 3x58 W	0054009	0054012	
A3 Ballast		5053069	
Sylref-E 2x58 W	5053069		
B2 Ballasts		Parallel	Serie Non
		compensated	compensated
Sylref-E 1x36 W	0052060	0052133	
Sylref-E 1x58 W	0052061	0052134	
Sylref-E 2x36 W	0052062	0052139	0052135
Sylref-E 2x58 W	0052063	0052064	0052136
Sylref-E 3x58 W		0052066	

White painted grid

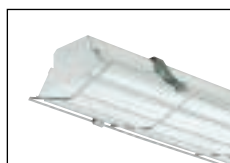
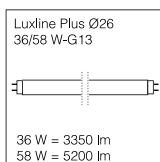
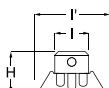
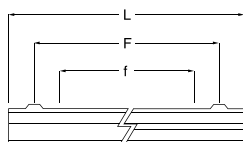
36 W module	9091912
58 W module	9091913
White painted grid end caps	0098292
Fixing jaws (pair)	0052120

Protective grid

58 W module	9056510
Protective grid end caps	0056482
Fixing brackets (2 needed per grid)	9056511

dimensions (mm)

lamp	L	I	I'	H	F	f	heaviest weight (kg)
1x36	1227	111	218	94	1000	700	3.4
1x58	1527	111	218	94	1000	700	3.9
2x36	1227	111	218	94	1000	700	4.0
2x58	1527	111	218	94	1000	700	5.0
3x58	1527	111	218	94	1000	700	6.1



Protective grid

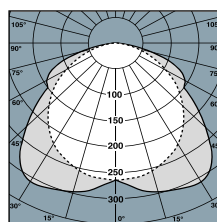


White painted louvre

Sylref-E Brilliant aluminium reflectors



SYLREF-E 2x36 W
Brilliant aluminium



Wattages	LOR	UTE	DFF
2x36	88%	0.88DE	100%
2x58	92%	0.92DE	100%
3x58			



(1) With protective louvre
(2) With protective grid

— Transversal plane
- - - Longitudinal plane

- > Fast installation.
- > Numerous industrial applications.
- > High output.
- > Functional accessories.

Applications

Industrial premises and sport facilities, workshops, warehouses and assembly lines.

A2 Ballasts

Emergency 3 hours

Sylref-E 2x36 W	0054063	0054076
Sylref-E 2x58 W	0054064	0054077
Sylref-E 3x58 W	0054065	0054078

A3 Ballast

Sylref-E 2x58 W	0054066
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B2 Ballasts

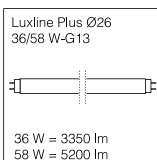
Parallel
compensated

Serie
compensated

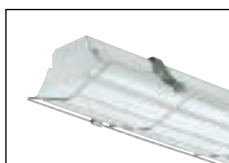
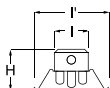
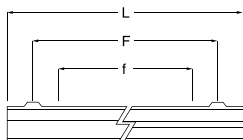
Sylref-E 2x36 W	0054067	0054070
Sylref-E 2x58 W	0054068	0054071
Sylref-E 3x58 W	0054069	0054072

dimensions (mm)

lamp	L	I	H	F	f	heaviest weight (kg)
1x36	1227	111	218	1000	700	3.4
1x58	1527	111	218	1000	700	3.9
2x36	1227	111	218	1000	700	4.0
2x58	1527	111	218	1000	700	5.0
3x58	1527	111	218	1000	700	6.1



36 W = 3350 lm
58 W = 5200 lm



Protective grid



White painted louvre

White painted louvre

36 W module	9091912
58 W module	9091913
White painted grid end caps	0098292
Fixing jaws (pair)	0052120

Protective grid

58 W module	9056510
Protective grid end caps	0056482
Fixing brackets (2 needed per grid)	9056511



Waterproof ranges



P.132



P.132

For further information on material **chemical resistances**, please refer to the appropriate chart page 240.



Sylproof-Pro T5 and A2 versions comply with  mark.



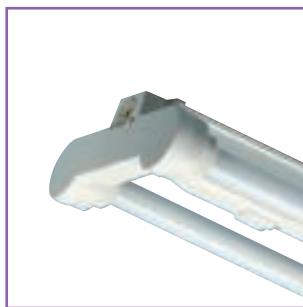
P.136



P.138



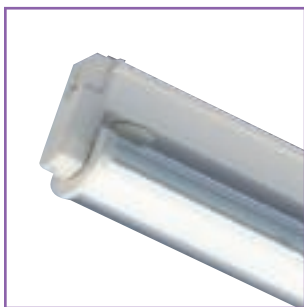
P.138



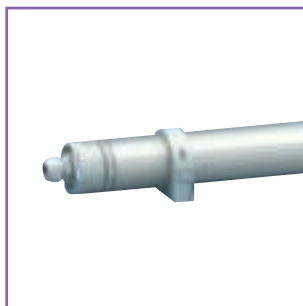
P.142



P.143



P.145



P.147



P.150



P.151



(Product description

Body: compressed reinforced polyester with long glass fibres providing the best protection against chemical substances, heat and impact.

Diffuser: injection moulding works by forcing plastic material into a mould. This method ensures consistent thickness and light transmission.

The PMMA diffuser is made by this process with internal linear prisms and a frosted internal upper profile.

Stainless steel clips fix diffuser to the body, providing the necessary pressure on the gasket and allowing it to hang down during maintenance.

Cable entries through both ends.

Polyurethane gasket.

Stainless steel clips as a standard.

The gear tray is a removable rigid, white coated steel sheet.

(Installation & Maintenance

Direct ceiling mounting or suspended, using special hooks.

The gear tray held in place with two butterfly nuts.

Two polyamide cords allow it to hang down during maintenance.

Supply cable entrance at one end through a special PG16 screw plug and a cable gland on through the other end.

Continuous linear mounting is possible with through wiring accessories.



Gear tray retained by 2 butterfly nuts



Gear tray connected to body by 2 plastic straps for easy maintenance



SYLPROOF-CAP

Evidence technology.

For humid and dusty environments, **SYLPROOF-CAP** is the waterproof luminaire to meet the lighting requirement.

- > Compression moulded body
- > Injection moulding PMMA diffuser
- > Optimised photometry

(Electrical equipment

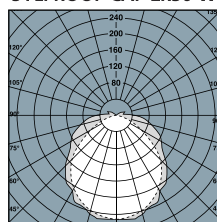
- > 230V/50Hz, 240V/50 Hz.
- > Pre-wired gear tray for single or twin version.
- > 18W, 36W or 58W lamps, T5 versions on request.
- > Ballasts and capacitors (if needed) are screwed in, starter included, lamp holder to be clipped in.
- > High frequency (A2) or low loss (B2) ballasts.
- > NC, PC or SC power factor correction.
- > 3 or 5 way terminal block at one end part.

Sylproof-CAP PMMA

IP 67



SYLPROOF-CAP 2x36 W



— Transversal plane
 - - - Longitudinal plane

Wattages	LOR	UTE	DFF
1x18	79%	0.67H+ 0.12T	84%
1x36	79%	0.68H+ 0.11T	86%
1x58	79%	0.68H+ 0.11T	86%
2x18	79%	0.68G+ 0.09T	88%
2x36	79%	0.69G+ 0.10T	87%
2x58	79%	0.69G+ 0.10T	87%
1x36 + ref	83%	0.77G+ 0.06T	93%
1x58 + ref	81%	0.75G+ 0.05T	93%
2x36 + ref	81%	0.76E+ 0.05T	96%
2x58 + ref	81%	0.76E+ 0.06T	93%

- > Unequalled chemical and thermal resistance.
- > GRP body with PMMA diffuser.
- > Removable gear tray.
- > Stainless steel clips.
- > High output.
- > Effective light distribution.

Applications

Humid or dusty environments: underground passageways, petrol stations, slaughterhouses, swimming pools, industries, workshops, warehousing areas breeding areas, canopies and car wash areas.

	3 way terminal block	5 way terminal block
A2 Ballasts		Through wired
Sylproof-CAP 1x18 W	0046932	
Sylproof-CAP 1x36 W	0046933	
Sylproof-CAP 1x58 W	0046934	
Sylproof-CAP 2x18 W	0046935	
Sylproof-CAP 2x36 W	0046936	
Sylproof-CAP 2x58 W	0046937	0046984
B2 Ballasts		
Series compensated		
Sylproof-CAP 1x36 W	0046960	
Sylproof-CAP 1x58 W	0046961	
Sylproof-CAP 2x36 W	0046963	
Sylproof-CAP 2x58 W	0046964	
Non compensated & Parallel compensable		
Sylproof-CAP 1x18 W		0046684
Sylproof-CAP 1x36 W		0046685
Sylproof-CAP 1x58 W		0046686
Sylproof-CAP 2x18 W		0046687
Sylproof-CAP 2x36 W		0046688
Sylproof-CAP 2x58 W		0046689
Parallel compensated		Trough wired
Sylproof-CAP 1x18 W	0046926	
Sylproof-CAP 1x36 W	0046927	
Sylproof-CAP 1x58 W	0046928	
Sylproof-CAP 2x18 W	0046929	
Sylproof-CAP 2x36 W	0046930	
Sylproof-CAP 2x58 W	0046931	0046982
Non compensated		
Sylproof-CAP 1x18 W	0046920	
Sylproof-CAP 1x36 W	0046921	
Sylproof-CAP 1x58 W	0046922	
Sylproof-CAP 2x18 W	0046923	
Sylproof-CAP 2x36 W	0046924	
Sylproof-CAP 2x58 W	0046925	

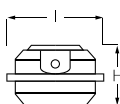
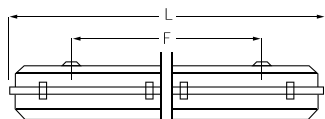
Luxline Plus Ø26
 18/36/58 W-G13



18 W = 1350 lm
 36 W = 3350 lm
 58 W = 5200 lm

dimensions (mm)

lamp	L	I	H	F	Heaviest weight (kg)	
					Magnetic (C)	A2
1x18	671	101	93	360	1.7	1.6
1x36	1281	101	93	1000	2.6	2.3
1x58	1581	101	93	1000	3.6	2.9
2x18	671	161	93	360	2.3	2.1
2x36	1281	161	93	1000	4.1	3.5
2x58	1581	161	93	1000	5.6	4.0



1-10V available on request. Please ask your local representative.

Accessories see page 133.

Facilities included



Washers



Polyamide cords



Screw plug



Cable gland



Clips

(A pair is delivered with through wired versions.)



Cable Gland

Through wiring

Cable 5x1.5 mm ² for 1x18 W + clamps	5046994
Cable 5x1.5 mm ² for 1x36 W + clamps	5046995
Cable 5x1.5 mm ² for 1x58 W + clamps	5046996
Cable 5x2.5 mm ² for 2x18 W + clamps	5046997
Cable 5x2.5 mm ² for 2x36 W + clamps	5046998
Cable 5x2.5 mm ² for 2x58 W + clamps	5046999

Cable Gland

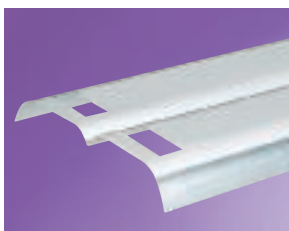
5046989



Stainless steel suspension hooks

Hooks

5046988



Aluminium reflector for higher output

Reflector 1x36 W	5046990
Reflector 1x58 W	5046991
Reflector 2x36 W	5046992
Reflector 2x58 W	5046993



(Product description

Body made of injected polycarbonate, grey RAL 7035 colour.

Stainless steel clips designed to ensure constant pressure on the polyurethane gasket.

Guarantees installation in low temperature conditions down to -20°C*.

UV stabilized polycarbonate or acrylic injection moulded diffusers specially designed to optimise light output and minimise glare.

The diffuser can be opened from either side to allow easy access to lamps and starters for maintenance.

White painted profiled gear tray, 0.6 mm thickness, made of sheet steel pre-wired and supporting the electrical equipment.

Hanging position during maintenance.

The gear tray is clipped in the body.

*not in continuous use

(Installation & Maintenance

Suspended with special hooks, surface mounted using fixing brackets or directly on to the ceiling by drilling the body*.

In line connection possible by using through-wiring accessory. Easy maintenance access to lamps and starters, as the diffuser hinges down.



*recommended procedures must be followed

SYLPROOF-PRO has shown its capabilities in car parks, warehouses, workshops, technical premises and underground areas.

- > Fast and simple installation and maintenance
- > Good material stress and thermal resistance
- > High performances

SYLPROOF-PRO

(Electrical equipment

- > 230V/50Hz
- > 3 way automatic terminal block on one end part (2.5 mm² wire).
- > Supply entries at both ends through cable grommets from 3x1.5 mm² up to 5x2.5 mm² cable.
- > Starters separated from lamp holders.
- > Electronic (A2) or low lost (B2) ballasts.
- > NC, PC or SC power factor correction.
- > 18,36 and 58W single or twin versions.
- > T5 twin versions in T8 single body.

(Photometric data

Lamp light output and luminaires performances are given at 25°C.

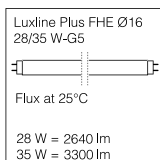
Sylproof-Pro T5 Polycarbonate



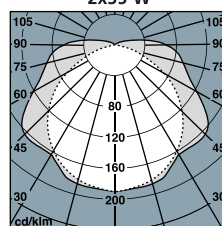
IP 65



- > Polycarbonate body and diffuser.
- > Removable gear tray.
- > Stainless steel fixings.
- > High output.
- > Effective light distribution.



SYLPROOF Pro T5
2x35 W



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF
2x28	72%	0.66G+ 0.06T	92%
2x35	72%	0.66G+ 0.06T	92%

Applications

Humid or dusty environments: car parks, garages, underground, passageways, industries, workshops, storage warehouses, and areas with high impacts risks or particular fire safety constraints.

3 way terminal block

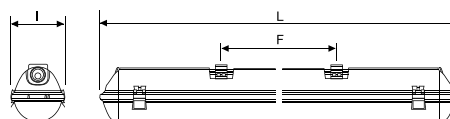
Emergency 3 hours

T5 versions

Sylproof-Pro 2x28 W	5053771	5053768
Sylproof-Pro 2x35 W	5053772	5053769

dimensions (mm)

lamp	L	I	H	F	weight (kg) A2
2x28	1278	97	100	850	2.2
2x35	1578	97	100	850	2.7



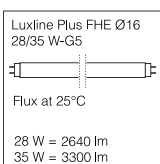
Sylproof-Pro T5 Acrylic



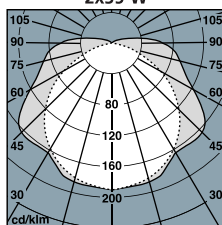
IP 65



- > Polycarbonate body and diffuser.
- > Removable gear tray.
- > Stainless steel fixings.
- > High output.
- > Effective light distribution.



SYLPROOF Pro T5
2x35 W



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF
2x28	74%	0.68G+0.06T	92%
2x35	74%	0.68G+0.06T	92%

Applications

Humid or dusty environments: industries, underground passageways, workshops, canopies,...

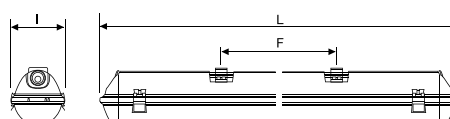
3 way terminal block

T5 versions

Sylproof-Pro 2x28 W	5053774
Sylproof-Pro 2x35 W	5053775

dimensions (mm)

lamp	L	I	H	F	weight (kg) A2
2x28	1278	97	100	850	2.2
2x35	1578	97	100	850	2.7



CAUTION: not for use near chemical agents or their vapour (e.g. oils, petrol derivatives, acids, cleaning solvents) as they can on occasions degenerate some raw materials used in this luminaire.

For more information on this luminaires chemical resistance or to select an alternative product, refer to our chemical chart on page 240.



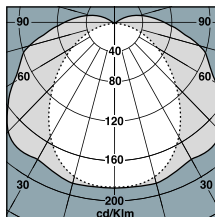
Sylproof-Pro Polycarbonate

IP 65



- > Polycarbonate body and diffuser.
- > Removable gear tray.
- > Stainless steel fixings.
- > High output.
- > Effective light distribution.

SYLPROOF Pro 2x58 W



— Transversal plane
- - - Longitudinal plane

Wattages		LOR	UTE	DFF
1x18		79%	0.70G+ 0.09T	89%
1x36		79%	0.69G+ 0.10T	87%
1x58		80%	0.70G+ 0.10T	87%
2x36		78%	0.71G+ 0.07T	91%
2x58		79%	0.72G+ 0.07T	91%
1x36	+ ref	78%	0.73E+ 0.04T	94%
1x58	+ ref	78%	0.73E+ 0.04T	94%
2x36	+ ref	79%	0.74E+ 0.05T	94%
2x58	+ ref	79%	0.74E+ 0.05T	94%

Applications

Humid or dusty environments: car parks, garages, underground, passageways, industries, workshops, storage warehouses, and areas with high impacts risks or particular fire safety constraints.

3 way terminal block

Emergency

1 hour 3 hours

A2 Ballasts

Sylproof-Pro 1x18 W	0046763	
Sylproof-Pro 1x36 W	0046764	0053742
Sylproof-Pro 1x58 W	0046765	0053743
Sylproof-Pro 2x36 W	0046766	0053744
Sylproof-Pro 2x58 W	0046767	0053745

A3 Ballasts

Sylproof-Pro 2x36 W	5046698
Sylproof-Pro 2x58 W	5046699

B2 Ballasts

Parallel compensated + COP Starter

Sylproof-Pro 1x18 W	0046785
Sylproof-Pro 1x36 W	0046786
Sylproof-Pro 1x58 W	0046787
Sylproof-Pro 2x36 W	0046788
Sylproof-Pro 2x58 W	0046789

Parallel compensated

Sylproof-Pro 1x18 W	0046715
Sylproof-Pro 1x36 W	0046716
Sylproof-Pro 1x58 W	0046717
Sylproof-Pro 2x36 W	0046718
Sylproof-Pro 2x58 W	0046719

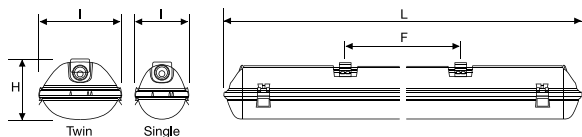
1-10V versions available on request. Please ask your local representative.

CAUTION: not for use near chemical agents or their vapour (e.g. oils, petrol derivatives, acids, cleaning solvents) as they can on occasions degenerate some raw materials used in this luminaire.

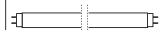
For more information on this luminaires chemical resistance or to select an alternative product, refer to our chemical chart on page 240.

dimensions (mm)

lamp	L	I	H	F	Heaviest weight (kg)	
					Magnetic	A2
1x18	668	97	100	340	1.7	1.6
1x36	1278	97	100	850	2.5	2.2
1x58	1578	97	100	850	3.4	2.7
2x36	1278	147	104	850	3.9	3.3
2x58	1578	147	104	850	5.4	5.9



Luxline Plus Ø26
18/36/58 W-G13



18 W = 1350 lm
36 W = 3350 lm
58 W = 5200 lm

Sylproof-Pro Accessories

Cable Gland



Cable Gland

5046989

Hooks for suspension



Paire of suspension hooks

9083019

Flexible connector



Flexible connector

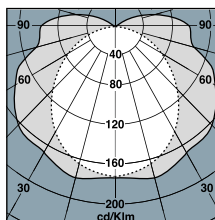
9056757

Sylproof-Pro Acrylic

IP 65


- > Polycarbonate body.
- > Acrylic diffuser.
- > Stainless steel fixing.
- > High output.
- > Effective light distribution.

SYLPROOF Pro 1x58 W



— Transversal plane
 ---- Longitudinal plane

Wattages		LOR	UTE	DFF
1x18		81%	0.72G+0.09T	89%
1x36		81%	0.71G+0.10T	87%
1x58		83%	0.72G+0.10T	87%
2x36		70%	0.73G+0.07T	91%
2x58		81%	0.73G+0.07T	91%
2x28		74%	0.68G+0.06T	92%
2x35		74%	0.68G+0.06T	92%
1x36	+ ref	80%	0.76E+0.05T	94%
1x58	+ ref	80%	0.76E+0.05T	94%
2x36	+ ref	81%	0.76E+0.05T	94%
2x58	+ ref	81%	0.76E+0.05T	94%

Applications

Humid or dusty environments: industries, underground passageways, workshops, canopies,...

3 way terminal block

A2 Ballasts

Sylproof-Pro 1x18 W	0046710
Sylproof-Pro 1x36 W	0046711
Sylproof-Pro 1x58 W	0046712
Sylproof-Pro 2x36 W	0046713
Sylproof-Pro 2x58 W	0046714

B2 Ballasts

Series compensated + COP Starter

Sylproof-Pro 1x36 W	0046759
Sylproof-Pro 1x58 W	0046760
Sylproof-Pro 2x36 W	0046761
Sylproof-Pro 2x58 W	0046762

Parallel compensated

	Through wired	Equipped
Sylproof-Pro 1x18 W	0046705	0046739
Sylproof-Pro 1x36 W	0046706	0046740
Sylproof-Pro 1x58 W	0046707	0046741
Sylproof-Pro 2x36 W	0046708	0046742
Sylproof-Pro 2x58 W	0046709	0046743

Non compensated

	+ COP starter
Sylproof-Pro 1x18 W	0046700
Sylproof-Pro 1x36 W	0046701
Sylproof-Pro 1x58 W	0046702
Sylproof-Pro 2x36 W	0046703
Sylproof-Pro 2x58 W	0046704

1-10V versions available on request. Please ask your local representative.

CAUTION: not for use near chemical agents or their vapour (e.g. oils, petrol derivatives, acids, cleaning solvents) as they can on occasions degenerate some raw materials used in this luminaire.

For more information on this luminaires chemical resistance or to select an alternative product, refer to our chemical chart on page 240.

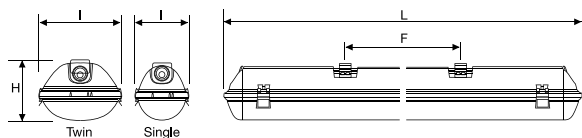
dimensions (mm)

lamp	L	I	H	F	Heaviest weight (kg)	
					Magnetic	A2
1x18	668	97	100	340	1.7	1.6
1x36	1278	97	100	850	2.5	2.2
1x58	1578	97	100	850	3.4	2.7
2x36	1278	147	104	850	3.9	3.3
3x58	1578	147	104	850	5.4	5.9

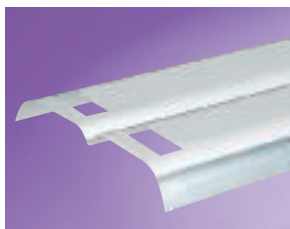
Luxline Plus Ø26
 18/36/58 W-G13



18 W = 1350 lm
 36 W = 3350 lm
 58 W = 5200 lm



Aluminium reflectors



Reflector 1x36 W	5056750
Reflector 1x58 W	5056751
Reflector 2x36 W	5056752
Reflector 2x58 W	5056753

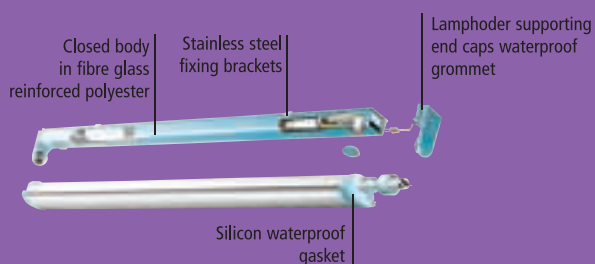
Through wiring

Tw + Clamp 5x1.5 mm ² for 1x18 W Pro/Eco	5056737
Tw + Clamp 5x1.5 mm ² for 1x36 W Pro/Eco	5056738
Tw + Clamp 5x1.5 mm ² for 1x58 W Pro/Eco	5056739
Tw + Clamp 5x2.5 mm ² for 2x36 W Pro/Eco	5056740
Tw + Clamp 5x2.5 mm ² for 2x58 W Pro/Eco	5056741



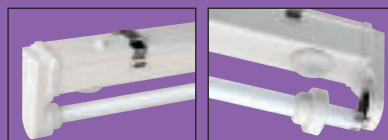
(Description

Closed body in glass fibre reinforced polyester.
Silicon waterproof gasket.
End caps support lamp holders with waterproof grommet.
Wide hatches allow easy access to the terminal blocks.
Fixing brackets in stainless steel.



(Installation & Maintenance

Fixed simply by clipping the body onto two variable inter-axis brackets.
Electrical connection through one end by waterproof grommet and access hatch.
Through-wiring through waterproof grommets at each end of the luminaire.
Cable gland available.
Easy replacement of the lamps by direct insertion without rotation.
Access to starter directly through hatch.



Adjustable inter-axis fixing by stainless steel brackets.

SYLFOG

Completely waterproof luminaires.

In humid, dusty or corrosive atmospheres, the range of **SYLFOG** luminaires is designed to maintain a constant optimal efficiency of waterproofness and optical output. The range includes versions to provide the lighting required in environments where temperature ranges are from -50°C to +60°C.

RANGE:

1 or 2 lamps 18W, 36W or 58W for:

- Bare lamp
- Methacrylate (TM) or polycarbonate (TP) protective tube.
- Methacrylate (RPM) or polycarbonate (RPP) ribbed parabolic tube with internal reflector.
- Methacrylate (HRM) or polycarbonate (HRP) clear parabolic tube with internal reflectors for extensive or intensive light distribution.

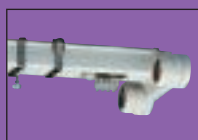
- > Completely waterproof
- > Optimised photometry
- > Double insulation class II
- > Specific models for various applications

[Accessories

- > TM or TP (methacrylate or polycarbonate protective tubes).
- > RPM or RPP (ribbed tube and specular aluminium internal reflector).
- > HRM or HRP (clear and specular aluminium internal reflector) for extensive or intensive light distribution.

[Electrical equipment

- > Pre-wired harness for 1 or 2 18W, 36W or 58W lamps.
- > High frequency (A2) and low loss (B2) ballasts.
- > 230V-50Hz.
- > Capacitor for power factor correction (except SYLFOG -50°C, +60°C and 18W types).



Sylfog

Simple With Protection Tube

IP 65



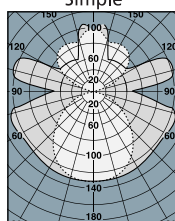
* With tube TM
** With tube TP
*** Simple Version

- > Double insulation class II.
- > Completely waterproof.
- > Easy installation and maintenance.
- > Lamp protection.***

For humid, dusty or corrosive atmospheres, a technical waterproof range designed to maintain a constant level of waterproofness and optical performance.

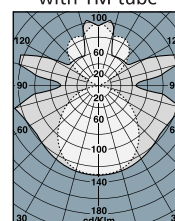


SYLFOG 2x36W Simple



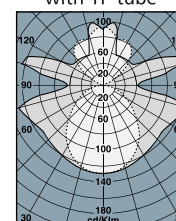
— Transversal plane
--- Longitudinal plane

SYLFOG 2x36W with TM tube



— Transversal plane
--- Longitudinal plane

SYLFOG 2x36W with TP tube



— Transversal plane
--- Longitudinal plane

Simple Version

Wattages	LOR	UTE	DFF
1x18	81%	0.50H+ 0.31T	62%
1x36	81%	0.50H+ 0.31T	62%
1x58	81%	0.50H+ 0.31T	62%
2x18	95%	0.58G+ 0.37T	61%
2x36	95%	0.58G+ 0.37T	61%
2x58	95%	0.58G+ 0.37T	61%

With methacrylate & polycarbonate protection tube

Wattages	LOR	UTE	DFF
1x18	82%	0.54G+ 0.28T	66%
1x36	82%	0.54G+ 0.28T	66%
1x58	82%	0.54G+ 0.28T	66%
2x18	80%	0.49G+ 0.31T	61%
2x36	80%	0.49G+ 0.31T	61%
2x58	80%	0.49G+ 0.31T	61%

Applications

Lighting of premises prone to humid, dusty or corrosive conditions, for example under canopies, washing areas, underground passageways, outdoor markets, food-stuff industries and cement works.

Simple Version	A2 Ballasts	B2 Ballasts	
		Parallel compensed	Non compensed
Sylfog 1x18 W	5042044		5042000
Sylfog 1x36 W	5042045	5042001	
Sylfog 1x58 W	5042046	5042002	
Sylfog 2x18 W	5042047		5042003
Sylfog 2x36 W	5042048	5042004	
Sylfog 2x58 W	5042049	5042005	

Accessory

ø26 mm protective collar **5042029**
(x2 protective collars needed per lamp)

With Protection Tube

	Methacrylate	Polycarbonate
Protection Tube 18 W	5042032	5042036
Protection Tube 36 W	5042034	5042037
Protection Tube 58 W	5042035	5042038

Accessory

ø50 mm protective collar **5042031**
(2 protective collars needed per lamp)

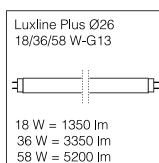
Example of order

Sylfog 2x36 W with methacrylate protection tube

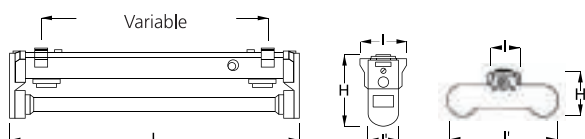
Sylfog 2x36 W	5042004
Methacrylate protection tube 36 W	5042034 (x2)
ø50 mm protective collar	5042031 (x4)

dimensions (mm)

lamp	L	I	I'	H	Weight heaviest (kg)
1x18	628	77	59	139	2.1
1x36	1238	77	59	139	2.8
1x58	1538	77	59	139	3.5
2x18	628	77	217	80	2.9
2x36	1238	77	217	80	4.4
2x58	1538	77	217	80	5.3



18 W = 1350 lm
36 W = 3350 lm
58 W = 5200 lm



Sylfog

Parabolic Tube With Internal Reflector
Parabolic Tube With High Output Internal Reflector

IP 65



* With tube RPM
** With tube RPP

- > Double insulation class II.
- > Optimised photometric data.
- > Easy installation and maintenance.
- > Adjustable protected parabolic tube.

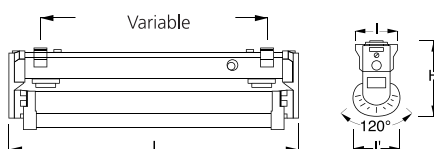
Range of waterproof luminaires with adjustable parabolic protective tubes and specular aluminium internal reflector, for humid, dusty or corrosive atmospheres. A technical waterproof range designed to maintain a constant level of waterproofness and optical performance.

Luxline Plus Ø26
18/36/58 W-G13

18 W = 1350 lm
36 W = 3350 lm
58 W = 5200 lm

dimensions (mm)

lamp	L	I	I'	H	Weight heaviest (kg)
1x18	628	77	105	160	2.1
1x36	1238	77	105	160	3.1
1x58	1538	77	105	160	4.4
2x18	628	77	260	100	3.1
2x36	1238	77	260	100	5.3
2x58	1538	77	260	100	6.9



Parabolic Tubes with high output internal reflector

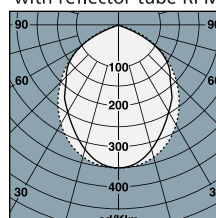
Methacrylate	Intensive	Extensive
Reflector HRM 18 W	5056703	5056706
Reflector HRM 36 W	5056704	5056707
Reflector HRM 58 W	5056705	5056708
Polycarbonate		
Reflector HRP 18 W	5056709	5056712
Reflector HRP 36 W	5056710	5056713
Reflector HRP 58 W	5056711	5056714

Example of order

Sylfog with HRP intensive protection tube

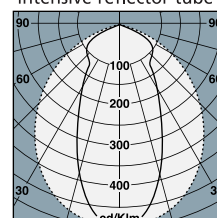
Sylfog 1x58 W	5042002	(product page 142)
Reflector HRP 58 W	5056711 (x1)	
ø38 mm protective collar	5042030 (x2)	

SYLFOG 2x36W
with reflector tube RPM



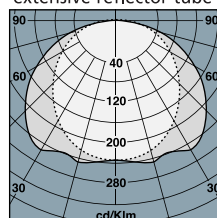
— Transversal plane
--- Longitudinal plane

SYLFOG 2x36W with HRM
intensive reflector tube



— Transversal plane
--- Longitudinal plane

SYLFOG 2x36W with HRP
extensive reflector tube



— Transversal plane
--- Longitudinal plane

With reflector tube RPM + RPP

Wattages	LOR	UTE	DFF
1x18	73%	0.73D	100%
1x36	73%	0.73D	100%
1x58	73%	0.73D	100%
2x18	76%	0.76D	100%
2x36	76%	0.76D	100%
2x58	76%	0.76D	100%

With reflector tube HRM + HRP intensive

Wattages	LOR	UTE	DFF
1x18	81%	0.81C	100%
1x36	81%	0.81C	100%
1x58	81%	0.81C	100%
2x18	81%	0.81C	100%
2x36	81%	0.81C	100%
2x58	81%	0.81C	100%

With reflector tube HRM + HRP extensive

Wattages	LOR	UTE	DFF
1x18	76%	0.76C	100%
1x36	76%	0.76C	100%
1x58	76%	0.76C	100%
2x18	76%	0.76C	100%
2x36	76%	0.76C	100%
2x58	76%	0.76C	100%

Applications

Lighting of premises prone to humid, dusty or corrosive conditions, for example under canopies, washing areas, underground passageways, outdoor markets, foodstuff industries and cement works. For premises with high level of lighting.

Parabolic tube with internal reflector

Methacrylate

Reflector RPM 18 W	5056699
Reflector RPM 36 W	5056680
Reflector RPM 58 W	5056681

Polycarbonate

Reflector RPP 18 W	5056700
Reflector RPP 36 W	5056701
Reflector RPP 58 W	5056702

Accessory

ø38 mm protective collar	5042030
(x2 protective collars needed per lamp)	

Example of order

Sylfog with methacrylate protection tube

Sylfog 1x36 W	5042045	(product page 142)
Reflector RPM 36W	5056680 (x1)	
ø38 mm protective collar	5042030 (x2)	

Sylfog

RPM Low temperature (-25°C)
Very Low Temperature (-50°C)

IP 65



- > Operates in temperatures down to -50°C.
- > Double insulation class II.
- > Completely waterproof allowing constant optics quality.
- > High performances.
- > Easy installation and maintenance.

Waterproof luminaires with adjustable parabolic protective tubes with specular aluminium internal reflector, for temperatures down to -25°C or from -10°C to -50°C, in particularly dusty or humid environments.



Sylfog -25°C

SYLFOG -25°C: one polycarbonate ø50 mm internal protective tube, compensated electrical equipment and starter for standard 36W or 58W lamps.

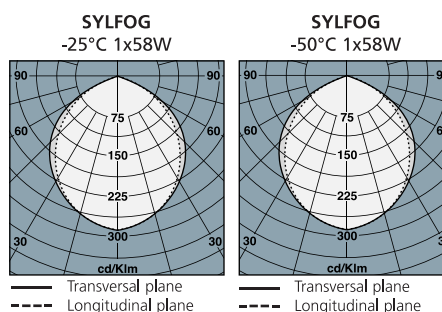
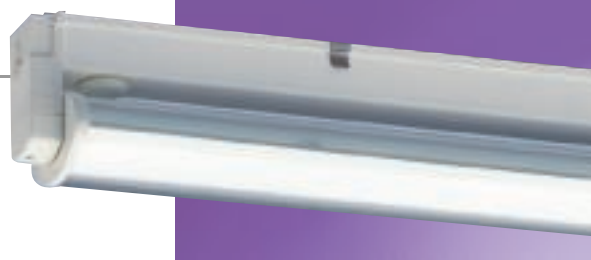


Sylfog -50°C

SYLFOG -50°C: one silicate glass ø38 mm internal tube, and a ø50 mm internal polycarbonate protective one, electrical equipment and starter for standard 36W and 58W lamps, (compensated on special request down to -40°C).



Luxline Plus Ø26 36/58 W-G13	
36 W = 3350 lm	
58 W = 5200 lm	



Wattages	LOR	UTE	DFF
1x18	73%	0.73D	100%
1x36	73%	0.73D	100%

Applications

For premises subjected to constraints of humidity and/or dust, in minimum temperatures from -10°C to -50°C, for example cold stores, freezing tunnels and slaughterhouses.

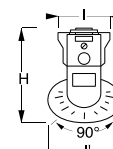
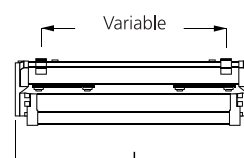
Description

Body in glass fibre reinforced polyester, with monobloc lamp holder and waterproof grommet. Outer methacrylate parabolic protective tube, adjustable, equipped with an internal specular aluminium reflector (RPM).

B2 Ballasts	-25°C Parallel	-50°C Non	Parallel
	compensated	compensated	compensated (-40°C)
Sylfog 1x36 W	5042039	5042041	
Sylfog 1x58 W	5042040	5042042	
Sylfog 2x58 W	5042051		5042050

dimensions (mm)

lamp	L	I	I'	H	Weight heaviest (kg)
SYLFOG RPM -25°C					
1x36	1270	77	106	160	3.8
1x58	1570	77	106	160	4.9
2x58	1570	77	280	160	9.5
SYLFOG RPM -50°C					
1x36	1270	77	106	160	6.2
1x58	1570	77	106	160	7.2
2x58	1570	77	280	160	9.5



Sylfog TS

High temperature (+60°C)

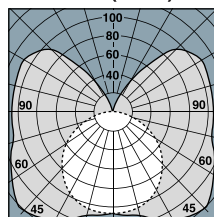
IP 65



- > Operates in temperatures up to +60°C.
- > Double insulation class II.
- > Completely waterproof and consistent optical performance.
- > High performance.
- > Easy installation and maintenance.

Waterproof luminaires with protective tubes, in silicate glass resistant to acids and detergents, intended for highly humid and/or dusty environments, in temperatures reaching 60°C.

SYLFOG TS (+60°C) 1x58W



— Transversal plane
- - - Longitudinal plane

Wattages	LOR	UTE	DFF
1x36	82%	0.54G+ 0.28T	66%
1x58	82%	0.54G+ 0.28T	66%

Applications

Any premises with high temperatures, such as kitchen hoods, boiler rooms, metallurgical industries, ceramics and glassworks.

Description

Body in glass fibre reinforced polyester, with monobloc lamp holder and waterproof grommets. ø50 mm silicate glass protective tube for 60°C atmospheres, resistant to acids and detergents. Pre-wired harness for 1 lamp 36W or 58W. Low loss ballast 230V-50Hz.

B2 Ballasts

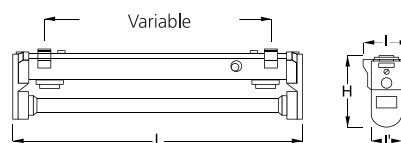
Non compensated

Sylfog TS 1x36 W	5042022
Sylfog TS 1x58 W	5042023

Luxline Plus Ø26 36/58 W-G13	
	
36 W = 3350 lm 58 W = 5200 lm	

dimensions (mm)

lamp	L	I	I'	H	Weight heaviest (kg)
1x36	1270	77	76	139	3.7
1x58	1570	77	76	139	4.8



SYLFOG R-POP2



(Product Description

Tubular housing in **PO** (impact resistant PMMA), completely sealed, largely resistant against acid and alkaline solutions.
Sliding gear tray in extruded aluminium.
End caps in white PBTP polyester including a transparent silicone gasket.
M20 cable gland supplier on one side (opposite with a grommet).
Stainless steel fixing clips included.

For further details, please refer to our chemical chart on page 240.

(Electrical components

A2 electronic ballast 220–240 V 50/60 Hz

(Installation

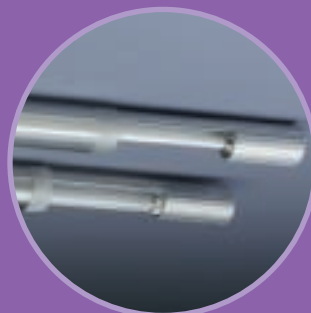
Suitable for ceiling mounting, pendant, horizontal or vertical wall mounting.
Variable fixing centres using fixing clips.

(Light distribution

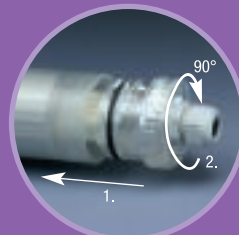
180°.
360° on request using a transparent gear tray.

(On request

Dimmable electronic ballast, grid, reflector (aluminium high-gloss anodised).
Polycarbonate or glass housings, through-wiring versions max 6 x 1, 5 mm².



T8 and T5 versions



Quick lock with 90 degree turn



White Bayonet fix ends for ease of installation
IP68 cable entry gland



Easy lamp replacement
via spring loaded socket



Corrosion resistant fixing clips included



Pendant suspension
with stainless steel wire

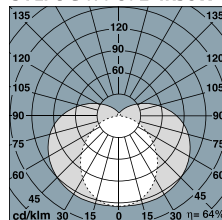
Sylfog R-POP2

IP 68

NEW

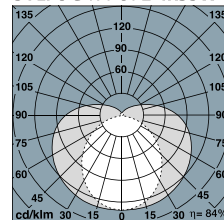


SYLFOG R-POP2 1x58W



— Transversal plane
 - - - Longitudinal plane

SYLFOG R-POP2 1x35W



— Transversal plane
 - - - Longitudinal plane

- > Extremely resistant to water pressure.
- > Resistance against oil, acids.
- > Easy installation and maintenance.
- > Constant level of waterproofness and optical performance.

Wattages	LOR	UTE	DFF
1x28	84%	0.69G+ 0.16T	81%
1x35	84%	0.69G+ 0.16T	81%
1x36	64%	0.51G+ 0.13T	80%
1x58	64%	0.51G+ 0.13T	80%

Applications

Garages, maintenance areas, work pits, industry, car washes, mushroom farms, architectural lighting.

A2 Ballasts

Sylfog R-POP2 1x28 W	5042062
Sylfog R-POP2 1x35 W	5042063
Sylfog R-POP2 1x36 W	5042060
Sylfog R-POP2 1x58 W	5042061

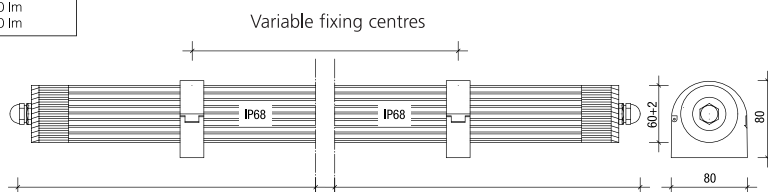
Other configurations using clear polycarbonate tube with either transparent or aluminium gear available on request.

Luxline Plus FHE Ø16 28/35 W-G5
Flux at 25°C
28 W = 2640 lm
35 W = 3300 lm

Luxline Plus Ø26 36/58 W-G13
36 W = 3350 lm
58 W = 5200 lm

dimensions (mm)

lamp	L	Weight heaviest (kg)
1x36/1x28	1844	2.5
1x58/1x35	2144	3





(Description

Housing and cover made of grey corrosion-resistant, moisture-proof and acid-resistant glass fibre-reinforced polyester. Non-ageing gasket. Externally accessible starter by removing a screw cap cover.
Lamp holders waterproof sealed.

(Installation & Maintenance

Directly on the ceiling or on track. Batten supplied with a set of rubber washers and a set of metallic collars to ensure waterproof ness of both fixing points. Cable entry via waterproof grommet through the ends. For maintenance, gear is suspended by polyamide cords. Direct access to the starter without opening the batten. Both Ø38 mm collars for naked lamp are supplied with the fitting.



- Waterproof batten, free-radiating for humid areas.
- Double insulation class II.
- Single and twin T8 versions.

PST

(Applications

Used in rooms where dust is released, in damp and wet locations, in areas affected by spray of vapours, stipulates usable (related on the concentration) diluted acids and alkalis, e.g. laundries, large-scale catering areas, chemical factories, shower rooms, slaughterhouses, greenhouses, etc. Please request details regarding durability and resistance if intended use involves exposure to extremely aggressive vapours.

(Electrical equipment

High frequency (A2) and Low loss (B2) ballasts 230V-50Hz.

PST

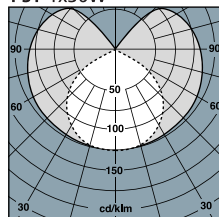
IP 65



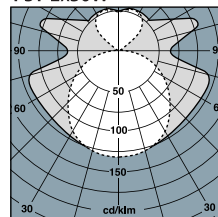
*With protective tube



PST 1x36W



PST 2x36W



Wattages	LOR
2x18	86%
1x36	89%
2x36	86%
1x58	89%
2x58	86%

— Transversal plane
- - - Longitudinal plane

— Transversal plane
- - - Longitudinal plane

- > Waterproof batten, free-radiating for humid areas.
- > Double insulation class II.
- > Single and twin T8 versions.

A2 Ballasts

1-10V dimmable

PST 1x18W	0040190	
PST 1x36W	0040191	0040196
PST 1x58W	0040192	0040197
PST 2x18W	0040193	
PST 2x36W	0040194	
PST 2x58W	0040195	

B2 Ballasts

PST 1x18W	0040164
PST 1x36W	0040165
PST 1x58W	0040166
PST 2x18W	0040163
PST 2x36W	0040167
PST 2x58W	0040168

Accessory

Pair of suspension hooks	9083019
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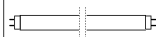


Lamp holder



Suspension hooks

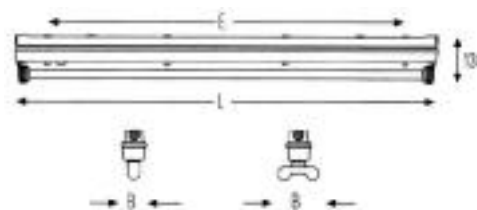
Luxline Plus Q26
18/36/58 W-G13



18 W = 1350 lm
36 W = 3350 lm
58 W = 5200 lm

dimensions (mm)

lamp	L	B	E	heaviest weight (kg)
1x18	654	62	450	1.3
1x36	1266	62	800	1.9
1x58	1566	62	1100	2.5
2x18	654	126	450	2
2x36	1266	126	800	2.6
2x58	1566	126	1100	3.7



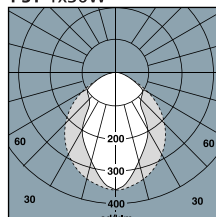
PST Protective Tube

IP 65



*With protective tube

PST 1x36W



Wattages	LOR
2x18	68%
1x36	69%
2x36	68%
1x58	69%
2x58	68%

— Transversal plane
 - - - Longitudinal plane

Polycarbonate protective tube

1x18W	0040210
1x36W	0040211
1x58W	0040212

Collars for ø38 mm protective tube

Set for twin lamp version	0040216
Set for single lamp version	0040217

Polycarbonate back ground with internal Aluminium reflector

1x18W	0040213
1x36W	0040214
1x58W	0040215

Collars for ø38 mm aluminium reflector version

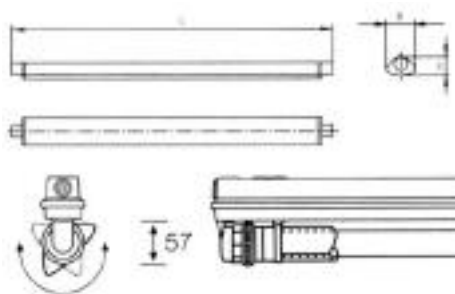
Set for twin lamp version	0040218
Set for single lamp version	0040219

Accessory

Pair of suspension hooks	9083019
--------------------------	---------

dimensions (mm)

lamp	L	B	E	heaviest weight (kg)
1x18	558	105	57	0.4
1x36	1168	105	57	0.8
1x58	1468	105	57	1

**Exemple of order**

PST 2x36W	0040194
Polycarbonate protctive tube (x2)	0040211
Collars set	0040216

Accessories

- Ø38 mm clear polycarbonate protective tube for 18W, 36W and 58W fluorescent lamps.
- Oval-Swing tube reflector, polycarbonate for 1x18W, 1x36W and 1x36W fluorescent lamps (can be swivelled, interior parabolic mirror, can only be used for single lamp luminaires).
- Sleeve for Ø38 mm protection tube.
- Sleeve for Oval-Swing tube reflector.
- Suspension hooks (Pair).



Suspension hooks



Lamp holder



ø38 mm collar for protective tube



ø38 mm collar for protective aluminium reflector



High bay & Low bay fixtures



P.154



P.154



P.154



P.158



P.158



P.162



P.162



P.162



(Product description

Die-cast aluminium body finished full polyester powder coated textured black with easy wiring access.
Anodised aluminium reflectors
Toughened/safety to BS3193 glass covers.

(Installation & Maintenance

SBH range may be mounted by either using the 25 mm conduit entry in the top of the wiring box or using the chain suspension lugs also on top of the wiring box.
We recommend use of a chain assembly capable of holding a minimum of 10 kg.

Wiring by using

Conduit Mounting

Open wiring box by loosening the four retaining screws and pivoting the lid on the top left screw.

Connect incoming mains into the terminal block ensuring correct polarity (capacity : looped 2.5 mm cables).

Re-fit wiring box lid and tighten up the four screws.

Chain Mounting

Fit a suitable gland in the 25 mm entry hole (to maintain the IP classification) then, follow the instructions for Conduit Mounting.

SBH O-SBH S

SBH range offer a competitive high lighting solution for industrial environments requiring strong product resistance against either chemical agents or warm and dusty atmospheres. A special version for explosive areas exist on request.

- > Variety of applications
- > Aluminium housing
- > Resin-filled ballast housing
- > Lamp choice variety
- > Easy installation

Range:

The **SBH** range, offers a lamps choice: mercury, high pressure sodium and metal halide: BRITELUX (HSI-SX) lamps as well as different reflector types.

(Electrical equipment

- > All discharge lamp circuits have double voltage 230 & 240V/50Hz entries.
- > Resin-filled ballast housing dissipates heat, ensuring long control gear life in higher ambient temperatures.
- > Supply connection through out a cable gland.
- > Integrated auxiliary lamp as well as SHP dimmable versions (separate box) available on request.

Maximum ambient temperature (t _a)			
SBH S	SBH O		
IP 65	IP 50	IP 20	IP 20
	Aluminium		PMMA
	Reflector		Reflector
250 W 			
400 W 			

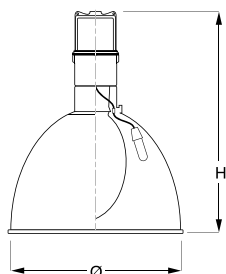
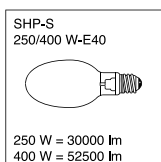
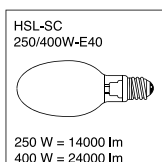
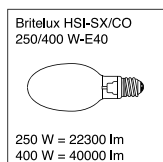
SBH.O



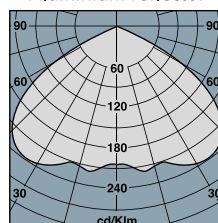
- (1) With protective glass
 (2) with aluminium reflector
 (3) With polycarbonate reflector
 (4) With PMMA reflector enclosed

- > High ambient temperature⁽¹⁾.
- > Die-cast aluminium body.
- > Resin-filled ballast housing.
- > Upward light reduces glare.
- > Auxiliary lamp option.

⁽¹⁾Except for prismatic reflector

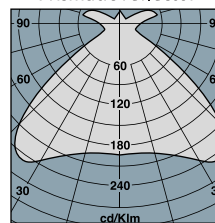


SBH.O HSL-SC 400W
Aluminium reflector



— Transversal plane
 --- Longitudinal plane

SBH.O SHP-S 400W
Prismatic reflector



— Transversal plane
 --- Longitudinal plane

SBHO IP20 aluminium reflector

Wattages	LOR	UTE	DFF
SHP-S 250	80%	0.79+0.01	99%
SHP-S 400	81%	0.80+0.01	99%
HSL 250	76%	0.75+0.01	99%
HSL 400	75%	0.74+0.01	99%

SBHO IP50 aluminium reflector

Wattages	LOR	UTE	DFF
SHP-S 150	67%	0.67	100%
SHP-S 400	71%	0.71	100%
HSL 250	66%	0.66	100%
HSL 400	66%	0.66	100%

SBHO IP20 prismatic reflector

Wattages	LOR	UTE	DFF
SHP-S 150	81%	0.69+0.12	85%
SHP-S 400	82%	0.67+0.15	82%
HSL 250	76%	0.64+0.12	84%
HSL 400	77%	0.62+0.15	80%
Britelux HSI-SX 400	82%	0.67+0.15	82%

Applications

High ceiling interiors such as factories, workshops, assembly lines, loading bays, industrial plants warehouses.

	HSI-SX	HSL-SC	SHP-S
	Britelux		
SBH.O 250 W	9043941*	9043943	9043941
SBH.O 400 W	9043942	9043944	9043942
IP 20 Accessories			
Aluminium reflector ø457	9043976		
Protective grid for ø457	9043965		
Prismatic metha. reflector ø563	5043138		
Prismatic poly. reflector ø563	5043166		
Fixing set for prismatic reflector	5043139		
IP 50 Accessories			
Aluminium reflector ø457	9043959		
Protective glass	9043967		

Auxiliary lamp versions available on request. Please ask your local representative.

dimensions (mm)

Reflector lamp	ø	H	Heaviest weight (kg)
Aluminium			
250 SHP-S	457	630	7.70
400 SHP-S/Britelux HSI-SX	457	630	8.14
250 HSL-SC	457	630	6.61
400 HSL-SC	457	630	7.47
PMMA			
250 SHP-S/Britelux HSI-SX*	569	630	7.70
400 SHP-S/Britelux HSI-SX	569	630	8.14
250 HSL-SC	569	630	6.61
400 HSL-SC	569	630	7.47
250 SHP-S	457	684	11.60
Aluminium IP 50			
400 SHP-S/Britelux HSI-SX	457	684	11.97
250 HSL-SC	457	684	10.82
400 HSL-SC	457	684	11.63

* 250W Britelux have to be installed with a protective glass.

SBH.S

Ta
60 °C

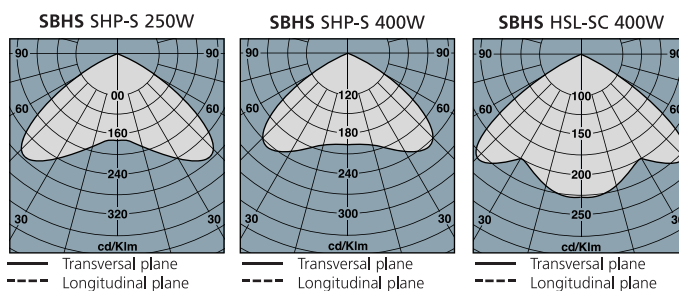
IP 65



Sealed reflector luminaires
for use in dust and moisture
laden atmospheres.

Classified IP 65

- > Die-cast aluminium body.
- > Resin-filled ballast housing.
- > Auxiliary lamp option.
- > Sealed, toughened/safety glass cover.
- > Type n'versions for Zone 2 areas on request.



Wattages	LOR	UTE	DFF
SHP-S 250	71%	0.71	100%
SHP-S 400	75%	0.75	100%
HSL 250	68%	0.68	100%
HSL 400	66%	0.66	100%

Applications

High ceiling interiors such as factories, workshops, assembly lines, loading bays, industrial plants warehouses, dusty and humid environments.

	HSI-SX Britelux	HSL-SC	SHP-S
SBH.S 250 W	9043948*	9043970	9043948
SBH.S 400 W	9043949	9043971	9043949
Aluminium reflector			
+ protective glass	9043964		

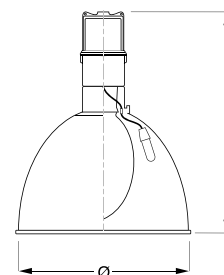
Auxiliary lamp versions available on request. Please ask your local representative.

Britelux HSI-SX/CO 250/400 W-E40 250 W = 22300 lm 400 W = 40000 lm	HSL-SC 250/400W-E40 250 W = 14000 lm 400 W = 24000 lm	SHP-S 250/400 W-E40 250 W = 30000 lm 400 W = 52500 lm
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dimensions (mm)

lamp	ø	H	Heaviest weight (kg)
250 SHP-S/Britelux HSI-SX*	457	684	11.60
400 SHP-S/Britelux HSI-SX	457	684	11.97
250 HSL-SC	457	684	10.82
400 HSL-SC	457	684	11.63

*to be installed with the protective glass.





(Description

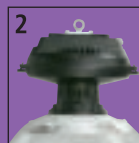


Die cast aluminium control gear housing, black polyester coated. Top fins providing excellent heat dissipation characteristics. Lamp compartment separated from main housing. Thermal gasket allowing a running temperature up to **45°C**. Various tightness levels available: IP 23, IP 44, and **IP 65**.

(Installation & Maintenance

Suspension of the housing with either chain or cable (not included) to central adjustable fixing hook. Open ALIOTH by unscrewing partly both stainless screws hinges and removing the one below the M20 cable gland. This gives a direct access to five way fast fit terminal block.

Equipped with 230V / 240V tapped ballast, ALIOTH is pre-connected on 240V. Remove the black cable to 230V according to main voltage.



1 - Weight distribution of major components in suspended upper housing, providing a safer & easier maintenance.

2 - Reflectors screwed through two keyholes. PMMA one requires its additional fixing kit before being screwed following the same process.

IP 65

Ta
45 °C

ALIOTH

ALIOTH is an industrial high-bay luminaire for 250 and 400W in metal halide, sodium & mercury lamps versions.

ALIOTH has been designed for professionals, following the market application and installation requirements for retail and industrial projects.

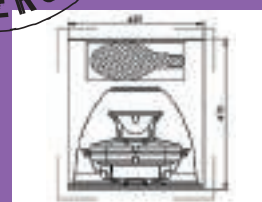
SIMPLE & PURE

Get back to simplicity...

...**SIMPLE** to install, connect, hang and balance.

...& **PURE** lines, allowing perfect protections against dust, water & shocks.

- > FAST products include appropriate lamp and aluminium reflector.
- > Lamp choice variety.



(Electrical equipment

The electrical equipment is incorporated into the control gear box, 230V/240V - 50Hz ballast ignitor (for high pressure sodium) and capacitor for high power factor. Integrated auxiliary lamp versions available.



(Variety of reflectors & accessories

Aluminium ø410 reflector:
5mm toughened protective glass delivered with a cable securing it while manipulating the lamp.
Protective grid for aluminium reflector fit either with or without the glass.
PMMA ø563 reflector:
Protective lens with its fixing set.

(IP65

Use the IP 65 housing where 2 additional silicon gaskets are provided on. ALIOTH needs to be closed with its protective glass delivered with its gasket.

Alioth Sodium SHP & Metal halide HSI-SX

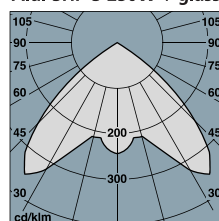
Ta
45 °C

IP 65



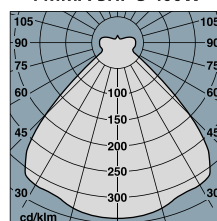
(1) IK02 for PMMA versions - (2) With methacrylate reflector
(3) With aluminium reflector

Alu. SHP-S 250W + glass



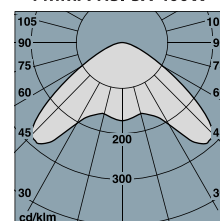
Longitudinal plane

PMMA SHP-S 400W



Longitudinal plane

PMMA HSI-SX 400W



Longitudinal plane

- > Robust.
- > Technical.
- > Performant.
- > Fast Versions.

Britelux HSI-SX/CO/P
250/400W-E40



250 W = 20000 lm
400 W = 40000 lm

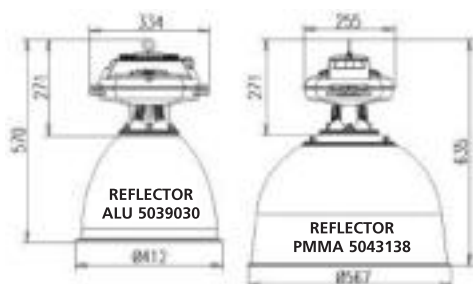
SHP-S
250/400W-E40



250 W = 30000 lm
400 W = 52500 lm

Weight of the luminaires (body + reflector)

Lamp	Wattage	Heaviest weight (kg)
SHP/HSI-SX	250W	9
	400W	10.5



PMMA reflector
+ protective lens



Protective glass



Protective grid

SHP

Wattages	Reflector	LOR	UTE	DFF
250W	Aluminium ø410	77%	0.77C	100%
250W	Aluminium ø410 + protective glass	70%	0.70C	100%
250W	Methacrylate prismatic ø563	86%	0.76B+0.10T	88%
250W	Methacrylate prismatic ø563 + Lens	81%	0.66C+0.15T	81%
400W	Aluminium ø410	79%	0.79F	100%
400W	Aluminium ø410 + protective glass	72%	0.72D	100%
400W	Methacrylate prismatic ø563	94%	0.80C+0.14T	85%
400W	Methacrylate prismatic ø563 + Lens	88%	0.69D+0.19T	78%

HSI

Wattages	Reflector	LOR	UTE	DFF
250W	Aluminium ø410	77%	0.77C	100%
250W	Aluminium ø410 + protective glass	70%	0.70C	100%
250W	Methacrylate prismatic ø563	86%	0.76B+0.10T	88%
250W	Methacrylate prismatic ø563 + Lens	80%	0.65C+0.15T	81%
400W	Aluminium ø410	75%	0.75F	100%
400W	Aluminium ø410 + protective glass	68%	0.68F	100%
400W	Methacrylate prismatic ø563	91%	0.76C+0.15T	83%
400W	Methacrylate prismatic ø563 + Lens	85%	0.66D+0.19T	78%

Caution: Choose HSI Protected lamp versions in open luminaires.

Protective glass or lens must be used if non protected HSI lamps are selected.

Applications

High ceiling interiors such as factories, workshops, assembly lines, loading bays, industrial plants, retail shops.

Item Description	SHP/HSI-SX
Alioth 400W IP65 Body	0039016
Alioth 250W IP65 Body	0039018
Alioth 400W IP23 Body*	0039020
Alioth 250W IP23 Body*	0039022
Fast Versions	
Alioth SHP-S 400W + Lamp + Alu. refl.	0039024
Alioth HSI-SX / CO / P 400W + Lamp + Alu. refl.	0039025
Auxiliary versions	
Alioth SHP/HSI-SX 400W Auxiliary	0039027
Alioth SHP/HSI-SX 250W Auxiliary	0039028

Accessories

Alioth Aluminium reflector Ø410	5039030
Alioth Glass (with its gasket)	5039033
Alioth Grid	5039036
Alioth PMMA reflecteur Ø563	5043138
Alioth PMMA Reflecteur Fixing Kit	5039032
Alioth Lens	5043168
Alioth Lens Fixation	5043169

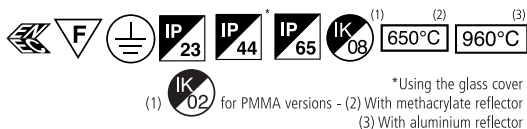
* IP44 with Aluminium reflector & protective glass.

0039020 0039022 0039027 0039028	+	5039030	+	5039033	=	IP44
0039016 0039018	+	5039030	+	5039033	=	IP65
0039020 0039022 0039027 0039028	+	5039030	+	5043138	=	IP23

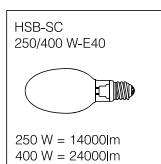
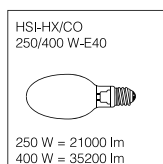
Alioth Mercury HSL & Metal halide HSI-HX

T_a
45 °C

IP 65

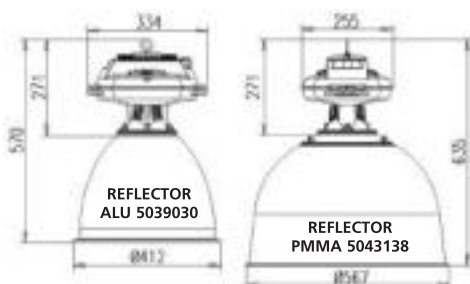


- > Robust.
- > Technical.
- > Performant.
- > Fast Versions.



Weight of the luminaries (body + reflector)

Lamp	Wattage	Heaviest weight (kg)
HSL/HSI-HX	250W	9
	400W	9



PMMA reflector
+ protective lens

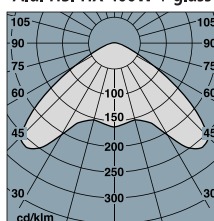


Protective glass



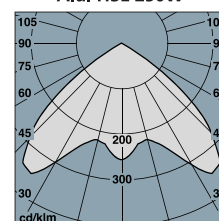
Protective grid

Alu. HSI-HX 400W + glass



Longitudinal plane

Alu. HSL 250W



Longitudinal plane

HSL

Wattages	Reflector	LOR	UTE	DFF
250W	Aluminium ø410	78%	0.78C	100%
250W	Aluminium ø410 + protective glass	71%	0.71C	100%
250W	Methacrylate prismatic ø563	88%	0.78B+0.10T	89%
250W	Methacrylate prismatic ø563 + Lens	83%	0.68C+0.15T	82%
400W	Aluminium ø410	77%	0.77F	100%
400W	Aluminium ø410 + protective glass	69%	0.69D	100%
400W	Methacrylate prismatic ø563	93%	0.79C+0.14T	85%
400W	Methacrylate prismatic ø563 + Lens	86%	0.67D+0.19T	78%

HSI

Wattages	Reflector	LOR	UTE	DFF
250W	Aluminium ø410	77%	0.77C	100%
250W	Aluminium ø410 + protective glass	70%	0.70C	100%
250W	Methacrylate prismatic ø563	86%	0.76B+0.10T	88%
250W	Methacrylate prismatic ø563 + Lens	80%	0.65C+0.15T	81%
400W	Aluminium ø410	75%	0.75F	100%
400W	Aluminium ø410 + protective glass	68%	0.68F	100%
400W	Methacrylate prismatic ø563	91%	0.76C+0.15T	83%
400W	Methacrylate prismatic ø563 + Lens	85%	0.66D+0.19T	78%

Caution: Choose HSI Protected lamp versions in open luminaires.

Protective glass or lens must be used if non protected HSI lamps are selected.

Applications

High ceiling interiors such as factories, workshops, assembly lines, loading bays, industrial plants, retail shops.

Item Description	HSL	HSI-HX
Alioth 400W IP65 Body	0039017	0039053
Alioth 250W IP65 Body	0039019	0039052
Alioth 400W IP23 Body*	0039021	0039051
Alioth 250W IP23 Body*	0039023	0039050
Fast Versions		
Alioth HSL-SC 400W + Lamp + Alu. refl.	0039026	

Accessories

Alioth Aluminium reflector Ø410	5039030
Alioth Glass (with its gasket)	5039033
Alioth Grid	5039036
Alioth PMMA reflecteur Ø563	5043138
Alioth PMMA Reflecteur Fixing Kit	5039032
Alioth Lens	5043168
Alioth Lens Fixation	5043169

* IP44 with Aluminium reflector & protective glass.

0039021 0039023 0039050 0039051	+	5039030	+	5039033	=	IP44
0039017 0039019 0039052 0039053	+	5039030	+	5039033	=	IP65
0039021 0039023 0039050 0039051	+	5039030	+		=	IP23
0039021 0039023 0039050 0039051	+	5043138	+		=	IP23



(Description

Zinc coated steel body, finished full polyester powder coated non-yellowing dark grey.

The zinc coated steel back plate provides fixing points and supply cables entries.

Both fit together with quick-release latches.

Both narrow and wide light distribution reflectors are anodised aluminium.

YAREN is a complete and simple lighting solution complete with appropriate lamp(s) and other necessary electrical components.

(Installation & Maintenance

YAREN can be either surface or rail mounted and suspended by Ø6/8 mm drop rod, chains, or Ø20 mm conduit.

Quick realise latch detaches body from back plate which is secured by two retaining straps.

Accessories can be installed easily without tools, except HSI-THX versions which are delivered including the protective glass.



YAREN

YAREN is the new low-bay generation which has reached to combine a slim (125 mm deep) and aesthetic profile with an effective light distribution. Designed for high pressure sodium and metal halide tubular lamps, **YAREN** offers a very easy tooling free installation process.

- > Extra slim profile
- > High efficiency
- > Complete with lamps
- > SHP dimmable version
- > Emergency module
- > Auxiliary lamps

[Accessories

- > A 4 mm thick clear toughened glass (toughened to BS3193).
- > A 2 mm thick clear polycarbonate, double sided acrylic coated/UV protected diffuser. *80°C is the contact temperature measured on a 400W version.*
- > Dark grey coated wire guard.
- > White coated louvre.
- > Single adjustable bracket and a special twin one, to mix lamp benefits.
- > M4 studs, plastic washers and butterfly nuts accessory fixing allow various combinations (e.g. glass & protective grid).

[Electrical equipment

- > Thermal cut-out protected ballasts, ignitors and capacitors screwed on the back plate.
- > 230V/50Hz & 240V/50Hz supply cable double entries connections ø21 mm cable entry rubber grommet protected.
- > Intergrated 250W E27 halogen auxiliary lamp available on metal halide versions.
- > High pressure sodium dimmable in a 750 mm long body and emergency 18W compact fluorescent lamp in a 1000 mm long fitting, are available on request.

Yaren High Pressure Sodium SHP

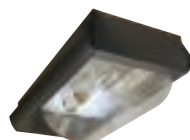


**LAMP
INCLUDED**

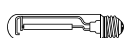


*With glass cover
**With wire guard and traverse louvre
***With polycarbonate cover

- > High efficiency.
- > Extra slim profile.
- > Tooling free maintenance.
- > Fully equipped.



SHP-T
250/400W-E40



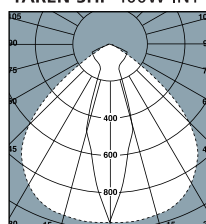
250 W = 28000 lm
400 W = 48000 lm

dimensions (mm)

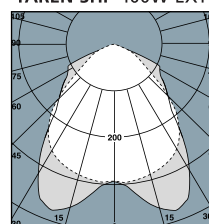
lamp	Weight heaviest (kg)
150 W SHP-T	6.4
250 W SHP-T	7.9
400 W SHP-T	8.8



YAREN SHP 400W INT



YAREN SHP 400W EXT



— Transversal plane
--- Longitudinal plane

— Transversal plane
--- Longitudinal plane

Wattages		LOR	UTE
SHP-T 250 W	INT	90%	0.90C
SHP-T 250 W	EXT	83%	0.83D
SHP-T 400 W	INT	90%	0.90C
SHP-T 400 W	EXT	83%	0.83C

Applications

Gymnasiums, interior sports areas e.g. squash,... Storage, garages, mechanical work shops, industries, any low ceiling applications.

Extensive distribution

Yaren ext. + 150W SHP-T	9039760
Yaren ext. + 250W SHP-T	9039761
Yaren ext. + 400W SHP-T	9039762

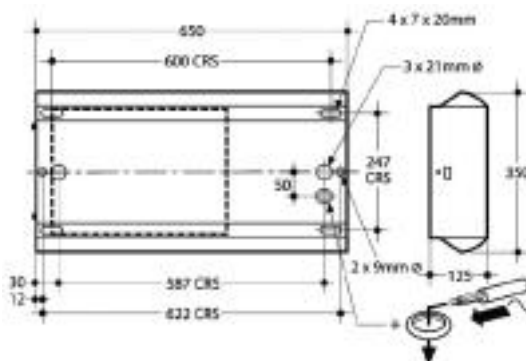
Intensive distribution

Yaren int. + 150W SHP-T	9039763
Yaren int. + 250W SHP-T	9039764
Yaren int. + 400W SHP-T	9039765

Accessories

Yaren wire guard	9039785
Yaren transverse louvre	9039786
Yaren glass panel	9039788
Yaren clear poly cover	9039789
Yaren hooks kit	9039790
Yaren bracket	9039791
Yaren twin bracket link (use with 2x9039791)	9039792

Dimmable & emergency versions available on request. Please ask your local representative.



Yaren Metal Halide HSI

Ta
30 °CTa
35 °CLAMP
INCLUDED

*With glass cover
 **With wire guard and traverse louvre
 ***With polycarbonate cover

- > High efficiency.
- > Extra slim profile.
- > Tooling free maintenance.
- > Fully equipped.



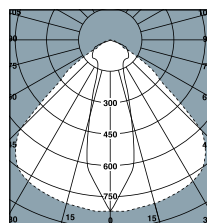
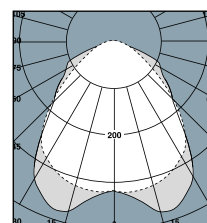
HSI-THX
 250/400 W-E40



250 W = 20000 lm
 400 W = 36000 lm

dimensions (mm)

lamp	Weight heaviest (kg)
250 W HSI-THX	10.1
400 W HSI-THX	11
400 W HSI-THX Aux	11.1

YAREN HSI-THX
400W INTYAREN HSI-THX
400W EXT

— Transversal plane
 - - - Longitudinal plane

— Transversal plane
 - - - Longitudinal plane

Wattages		LOR	UTE
HSI-THX 250W	INT	82%	0.82C
HSI-THX 250W	EXT	76%	0.76C
HSI-THX 400W	INT	82%	0.82C
HSI-THX 400W	EXT	76%	0.76C

Applications

Gymnasiums, interior sports areas e.g. squash,... Storage, garages, mechanical work shops, industries, any low ceiling applications.

Extensive distribution

+ Auxiliary lamp

Yaren ext. + 250W HSI-THX	9039766	
Yaren ext. + 400W HSI-THX	9039767	9039768

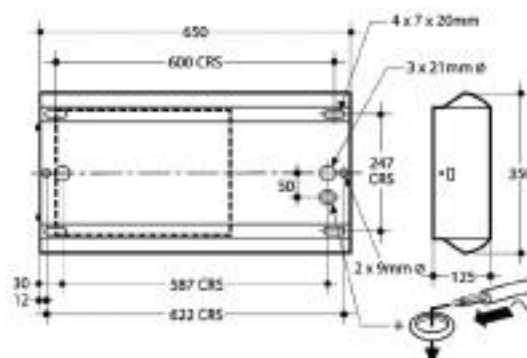
Intensive distribution

Yaren int. + 250W HSI-THX	9039769	
Yaren int. + 400W HSI-THX	9039770	9039771

Accessories

Yaren wire guard	9039785
Yaren transverse louvre	9039786
Yaren clear poly cover	9039789
Yaren hooks kit	9039790
Yaren bracket	9039791
Yaren twin bracket link (use with 2x9039791)	9039792

Emergency versions available on request. Please ask your local representative.



Outdoor

FLOODLIGHTS



170
> AL 300



171
> SUNKAT
FMH



172
> FEH
HALOGEN
LAMPS



173
> SYLVEO
SPOT

IN GROUND RECESSED

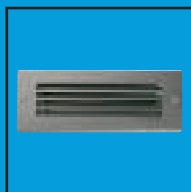


188
> PALMYRA



197
> SYLEOS

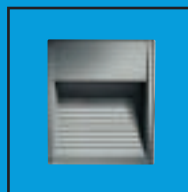
WALL LIGHTING



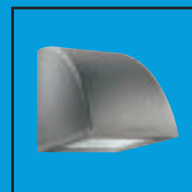
202
> MUREO



203
> RYTMO



205
> TANNA



207
> MAKIRA

BOLLARD



210
> SUBRA



211
> SYLALLEY

FOUNTAIN



214
> NAOS 83



216
> NAOS 220

AMENITY LIGHTING



219
> BULKHEAD
R245



220
> ANTI-VANDAL
BULKHEADS



221
> SYLCOMPACT S



222
> ALLEYKAT

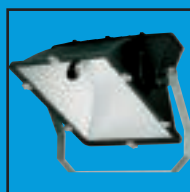
index



176
➤ SYLVEO 1



178
➤ SYLVEO 2



182
➤ FMD



185
➤ FMD
CIRCULAR



223
➤ SYLSTAR
120/120 C

SYLVANIA presents a complete range of floodlights, to meet every need.

FLOODLIGHTS LAMPS	AL 300	SUNKAT FMH 200-500-1000-1500W	FEH HALOGEN 200-500-1000 1500-2000W	SYLVEO SPOT 120W	SYLVEO 1 70-100-150W
					
Incandescent Tungsten Halogen and Mercury	HDE 150/200/300W-Rx7s	HDE 200/300/500/ 1000/1500W-Rx7s	HDE 200/300/500/ 1000/1500/2000W-Rx7s	PAR 38	HSL-SC 80W-E27
High Pressure Sodium					SHP-TS 70W-E27 150W-E40
Metal Halide					HSI-TD 70/150W-Rx7s HSI-MP 100W-E27
APPLICATIONS					
Stadium					
Sport fields		•	•		•
Tennis courts		•	•		
Swimming pools					•
Ice rinks					
Sport halls					
Velodromes					
Ski jumping		•	•		
Hippodromes					
Gymnasiums					
Illuminations		•	•	•	•
Parks and gardens		•	•	•	•
Facades	•	•	•	•	•
Advertising panels	•	•	•	•	•
Car parks					•
Ports and docks					
Building sites					•
Warehousing areas					•
Marshalling yards					
Bypasses, interchanges, tolls					
Surveillance areas		•	•		
Pedestrian areas					•
Airports					
Airports terminals					•
Shopping arcades	•	•	•		•
Factories, warehouses					•

FLOODLIGHTS: aluminium bodies, rectangular, asymmetrical or circular.

CONTROL GEAR: incorporated or separated.

LAMPS AVAILABLES: halogen, mercury, high pressure sodium or metal halide.

SYLVEO 2 250-400W	FMD RECTANGULAR 1000 1000W	FMD 2000 2000W	FMD 1000-2000 Asym. 1000-2000W	FMD 1000-2000 1000-2000W
				
SHP-TS 250/400W-E40	SHP-T 1000W-E40		SHP-T 1000W-E40	SHP-T 1000W-E40
HSI-THX 250/400W-E40	HSI-T 1000W-E40	HSI-T 2000W-E40	HSI-T 1000/2000W-E40	HSI-T 1000/2000W-E40
		•	•	• (1000 & 2000W)
•			•	•
•	•	•	•	
•	•	•	•	
			•	
•	•	•		• (1000 & 2000W)
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AL 300



- > Compact.
- > Simple and easy to use.
- > Protective glass.
- > Halogen lamp.
- > Asymmetrical reflector.

Description

Injected aluminium alloy body, black or white polyurethane coated anti-corrosive protection. Tempered protective glass (5 mm) fixed by a single clip. Asymmetrical reflector in specular aluminium. Polyamide moulded connection block with Ø10 mm cable gland entry. Fixing brace provided with the fixture. Fixing arrangement enables an easy flood-light repositioning direction. Facility to install the fixture on a bracket. 230 V/50 Hz.

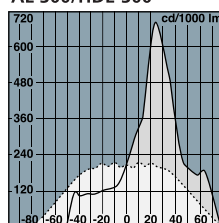
HDE
150/200/300W-R7s



150 W = 1875 lm
200 W = 3000 lm
300 W = 5000 lm



AL 300/HDE 300



— Transversal plane
--- Longitudinal plane
Max at $\varphi=26^\circ$
Transversal aperture: 30°
Longitudinal aperture: $2 \times 54^\circ$

Applications

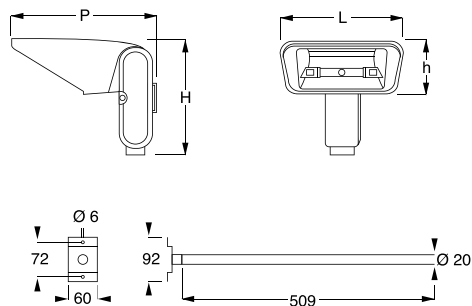
For facades lighting, advertising panels, shop windows and surrounding areas.

	White	Black
AL 300	0039526	0039527

Accessories	White	Black
AL 300 0,5 M Bracket	0039524	0039520

dimensions (mm)

	L	P	h	H	Weight (kg)
AL 300	165	205	70	115	0.75



Sunkat FMH



* Except FMH 500 W, IP54, IK 05

- > Compact.
- > Low investment.

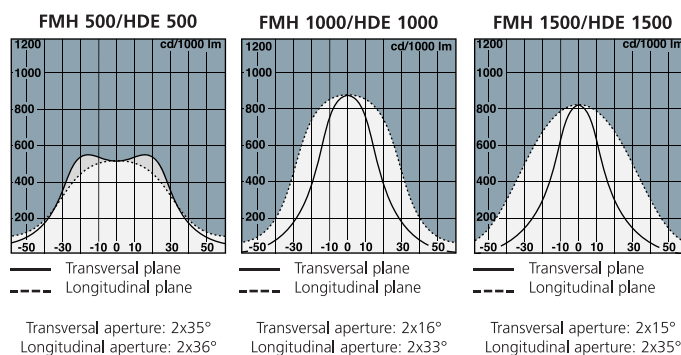
Description

Injected aluminium alloy body and frame, black or white polyurethane coated anti-corrosive protection. Tempered protective glass, silicone gasket. Extensive reflector in hammered aluminium. R7s security lamp holder and high temperature wiring. Connection block isolated from the body with Ø10 mm cable gland. Adjustable fixing bracket. 230 V/50 Hz.

Installation & Maintenance

Fixing and secured thanks to 3 holes in the bracket after adjustment in azimuth. Adjustable on site. Access to lamp by opening the frame.

HDC 200/300/500 1000/1500W-R7s
200 W = 3000 lm
300 W = 5000 lm
500 W = 9500 lm
1000 W = 22000 lm
1500 W = 33000 lm



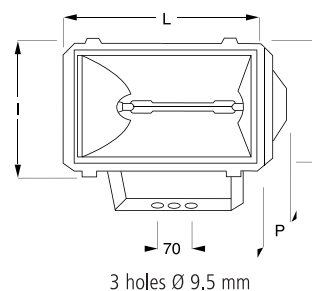
Applications

For outdoor or indoor lighting, e.g. illuminations, advertising panels, shop windows, construction sites, car parks and playgrounds.

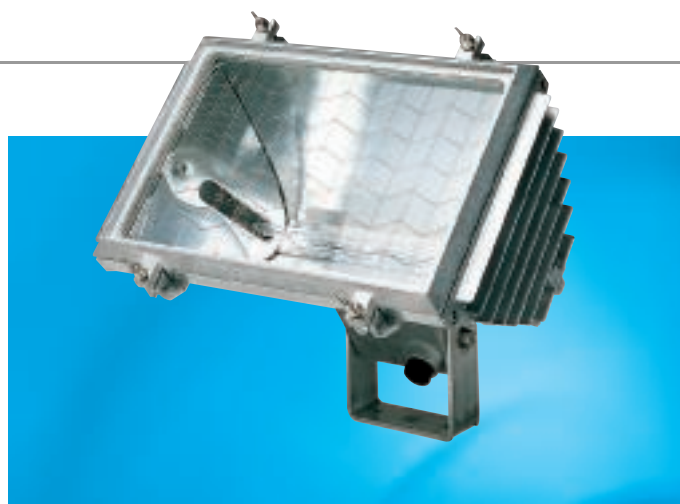
FMH 500 Black	0043758
FMH 500 White	0043817
FMH 1000 Black	0043740
FMH 1500 Black	0043741

dimensions (mm)

	L	I	P	H	V(m³)	Weight (kg)
FMH 500	191	155	140	265	0.006	2.00
FMH 1000	325	226	170	390	0.019	3.10
FMH 1500	392	226	170	390	0.022	3.50



FEH Halogen lamps



- > Sturdy and economical.
- > Practical.
- > Cooling fins.
- > Intensive optics.

Description

Extruded aluminium anodised finish body and frame resistant to corrosion. Cooling fins ensuring an increased lamp longevity. Toughened with integral reinforcing wires protective glass, silicone gasket resistant to wide thermal variations. Aluminium reflector ensuring an optimum concentration of the luminous flux. Security lamp holder and high temperature wiring. Connection block for fast installation. Variable fixing support for flexibility.

Installation & Maintenance

Fixing and secured thanks to 3 holes in the bracket after adjustment in azimuth. Adjustable on site. Access to the lamp through opening of the frame.



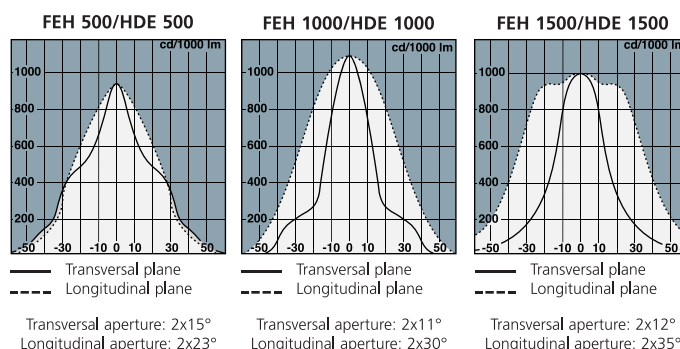
Visor



Protective grid

HDC 200/300/500
1000/1500/2000 W-R7s

200 W = 3000 lm
300 W = 5000 lm
500 W = 9500 lm
1000 W = 22000 lm
1500 W = 33000 lm
2000 W = 44000 lm



Applications

In industry: building sites, quays, construction sites
in businesses: advertising panels, car parks, stores
in sports and leisure: tennis courts, ice skating rinks, sporting facilities
in transportation: protective lighting and security.

FEH 500 W	0043180
FEH 1000 W	0043181
FEH 1500 W	0043182
FEH 2000 W	0043583

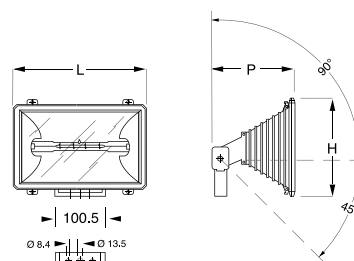
Accessories

Visor for FEH 500 W	0043196
Visor for FEH 1000 W	0043197
Visor for FEH 1500 W	0043198
Visor for FEH 2000 W	0043199

Protective grid for FEH 500 W	0043200
Protective grid for FEH 1000 W	0043201
Protective grid for FEH 1500 W	0043202
Protective grid for FEH 2000 W	0043203

dimensions (mm)

	L	P	H	Weight (kg)
FMH 500	205	265	250	3.00
FMH 1000	275	265	250	3.30
FMH 1500	340	265	250	3.70
FMH 2000	455	265	250	5



Sylveo spot

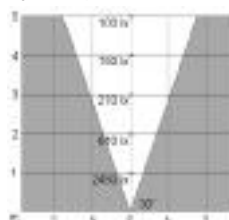
**LAMP
INCLUDED**



- > Compact
- > Simple and easy to use
- > Looping facility



Sylveo Spot PAR 38 120W



Description

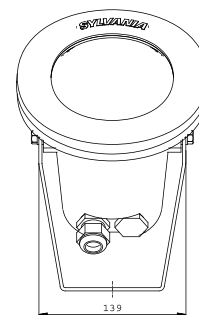
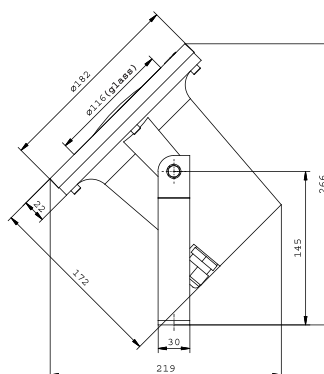
SYLVEO SPOT is an easy solution for floodlighting. Delivered with its PAR 38 lamp suitable for exterior applications. Front rim seals the spot up by screwing the lamp glass.

Die cast aluminium, grey polyester painted housing. Double M20 entries, one cable gland and one cable grommet. t_a 25°C.

Direct front access to lamp.



		Lamp	
		Type	Wattage
Syleo spot	0053227	Par 38 30°	120





[Product Description

Die-cast LM6 aluminium 3mm thick body. Anti-corrosive protection. Painted metallized grey polyester powder RAL 9006.

Rear cooling fins contribute to reach t_a 40°C.

A steel plate insures lamp and electrical compartment separation

A 5mm toughened printed glass and silicon gasket ensure closure to IP65.

The glass is fixed with two rotary anti-loss hinges supported at the bottom and two removable clips at the top.



Hinges and clips are aluminium. All anti-loss external screws are stainless steel.

Reflectors in highly polished and anodised aluminium (99.8%).

Hammered for symmetrical extensive & asymmetrical versions.

Specifically designed to optimise performance.

Galvanized steel bracket, secured with stainless steel M10 screws.

Goniometers in polyamide PA66 insure a precise tilt on SYLVEO 2 both sides.



[Features

- > Surface, ground or wall mounting options
- > Suitable for a use up to 40°C ambient temperatures
- > Supplied complete with gear box and lamp
- > Direct front access to lamp and gear box
- > Easy direct supply connection
- > Running temperature scale: from -30°C to +40°C

SYLVEO

SYLVEO is a 70W to 400W floodlight range covering most requirements, Extensive, Intensive and Asymmetric reflectors (light distribution) & lamp types (colour rendering and efficiency) offer.

- > Robust die-cast and streamlined aluminium body
- > High performances
- > Designed for large indoor & outdoor applications
- > Gear box & lamp included
- > IP 65
- > t_a 40°C*

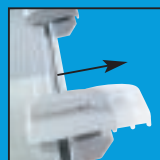
(Electrical facilities

M20 cable gland (for $\phi 6$ to $\phi 12$ mm cables) insuring dust and waterproof connection and cord anchorage function. Ceramic RX7s, E27 & E40 lamp holder. All components screwed on a separate sheet steel gear tray, 230 V-240 V ballast double entries. Electromagnetic ballasts with thermal protection, superimposed or pulse ignitors, parallelele compensation capacitor for high power factor. Tinned copper cables with silicone sheath.

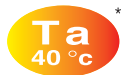


(Installation & Maintenance

- > Release stainless steel fixing screws
- > Remove both upper sliding clips to open the glass lens
- > Install cable through the cable gland and connect it to the terminal bloc
- > Replace the glass closure and tighten the screws
- > Fix the safety bracket
- > Adjust the angle with the aid of the two goniometers



Sylveo 1



Extensive and intensive reflector

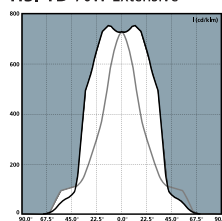
LAMP
INCLUDEDWind exposed surface: 0,11m²

230V / 240V - 50Hz

850°C

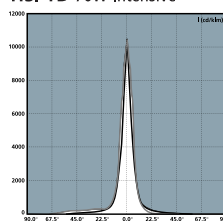
- > Robust die-cast and streamlined aluminium body
- > High performances
- > Compact
- > Gear box & lamp included

HSI-TD 70W-Extensive



I max : 730 cd/klm
Transversal aperture: 2x18°
Longitudinal aperture: 2x35°

HSI-TD 70W-Intensive



I max : 10500 cd/klm
Transversal aperture: 2x6°
Longitudinal aperture: 2x5°

Applications

Sport pitch (Football, Tennis, Squash, ...), Gymnasiums, Hippodromes, Airport terminals, Ski jumping, Public gardens, Parks, Historic buildings, Industrial buildings sides (facades), Factories, warehouses, Car parks (Exterior or interior entries,...), Garages, Shooting range, Bridges, Billboards, Petrol stations, Highway stops, Swimming pools, (...)

Extensive

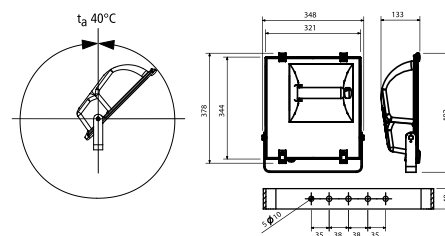
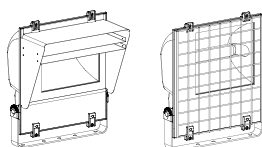
		Colour temp. (°K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)
	METAL HALIDE					
Sylveo 1 HSI-TD 70W	0039850	4200	5800	1B	0,98	90
Sylveo 1 HSI-MP 100W	0039851	4000	8500	2A	1,15	105
Sylveo 1 HSI-TD 150W	0039853	4200	13000	1B	1,8	95
	HIGH PRESSURE SODIUM					
Sylveo 1 SHP-TS 70W	0039854	2050	6800	4	0,98	90
Sylveo 1 SHP-TS 150W	0039855	2050	17000	4	1,8	100
	MERCURY					
Sylveo 1 HSL-SC 80W	0039856	3400	4000	3	0,8	115

Intensive

		Colour temp. (°K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)
	METAL HALIDE					
Sylveo 1 HSI-TD 70W	0039857	4200	5800	1B	0,98	90
Sylveo 1 HSI-TD 150W	0039858	4200	13000	1B	1,8	95

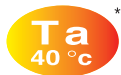
Accessories

Glare control visor	5039863
Protective grid	5039864



Max weight: 8,2 kg

Sylveo 1



IP 65

Asymmetric reflector

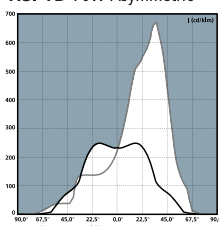
LAMP
INCLUDEDWind exposed surface: 0,11m²

230V / 240V - 50Hz

850°C

- > Robust die-cast and streamlined aluminium body
- > High performances
- > Compact
- > Gear box & lamp included

HSI-TD 70W-Asymmetric



I max at 34° : 670 cd/klm
 Transversal aperture: 7° - 48°
 Longitudinal aperture: 2x34°

Applications

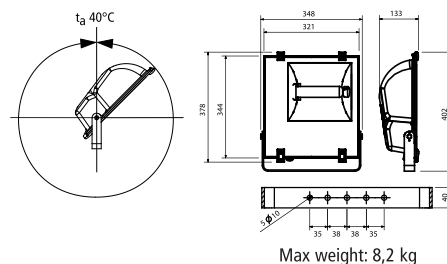
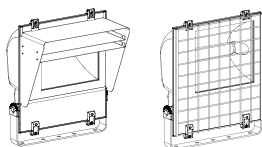
Sport pitch (Football, Tennis, Squash, ...), Gymnasiums, Hippodromes, Airport terminals, Ski jumping, Public gardens, Parks, Historic buildings, Industrial buildings sides (facades), Factories, warehouses, Car parks (Exterior or interior entries,...), Garages, Shooting range, Bridges, Billboards, Petrol stations, Highway stops, Swimming pools, (...)

Asymmetric

		Colour temp. (°K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)	
	METAL HALIDE						
Sylveo 1 HSI-TD 70W	0039859	4200	5800	1B	0,98	90	
Sylveo 1 HSI-TD 150W	0039860	4200	13000	1B	1,8	95	
	HIGH PRESSURE SODIUM						
Sylveo 1 SHP-TS 70W	0039861	2050	6800	4	0,98	90	△
Sylveo 1 SHP-TS 150W	0039862	2050	17000	4	1,8	100	△

Accessories

Glare control visor	5039863
Protective grid	5039864



Sylveo 2

Ta
40 °C

IP 65

Extensive and intensive reflector

LAMP
INCLUDED

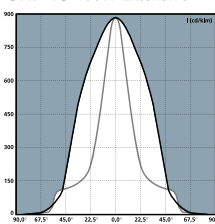
Wind exposed surface: 0,11m²

230V / 240V - 50Hz

850°C

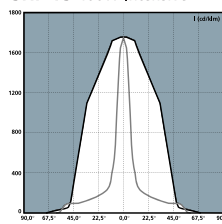
- > Robust die-cast and streamlined aluminium body
- > High performances
- > Gear box & lamp included

SHP-TS 400W-Extensive



I max: 880 cd/klm
Transversal aperture: 2x15°
Longitudinal aperture: 2x35°

SHP-TS 400W-Intensive



I max: 1750 cd/klm
Transversal aperture: 2x6°
Longitudinal aperture: 2x35°

Applications

Sport pitch (Football, Tennis, Squash, ...), Gymnasiums, Hippodromes, Airport terminals, Ski jumping, Public gardens, Parks, Historic buildings, Industrial buildings sides (facades), Factories, warehouses, Car parks (Exterior or interior entries,...), Garages, Shooting range, Bridges, Billboards, Petrol stations, Highway stops, Swimming pools, (...)

Extensive

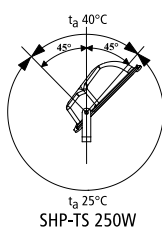
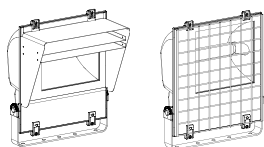
		Colour temp. (°K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)
	METAL HALIDE					
Sylveo 2 HSI-THX 250W	0039865	4500	20000	2B	2,1	130
Sylveo 2 HSI-THX 400W	0039866	4200	36000	2B	3,4	130
	HIGH PRESSURE SODIUM					
Sylveo 2 SHP-TS 250W	0039867	2050	32000	4	2,95	100
Sylveo 2 SHP-TS 400W	0039868	2050	55000	4	4,5	100
	EMPTY VERSION					
Sylveo 2 E40	0039880					

Intensive

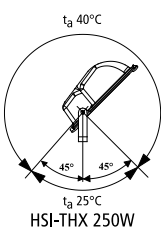
		Colour temp. (°K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)
	METAL HALIDE					
Sylveo 2 HSI-THX 250W	0039869	4500	20000	2B	2,1	130
Sylveo 2 HSI-THX 400W	0039870	4200	36000	2B	3,4	130
	HIGH PRESSURE SODIUM					
Sylveo 2 SHP-TS 250W	0039871	2050	32000	4	2,95	100
Sylveo 2 SHP-TS 400W	0039872	2050	55000	4	4,5	100

Accessories

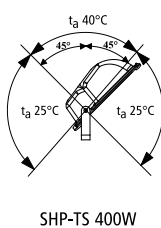
Glare control visor	5039877
Protective grid	5039878



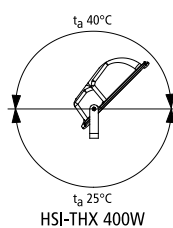
SHP-TS 250W



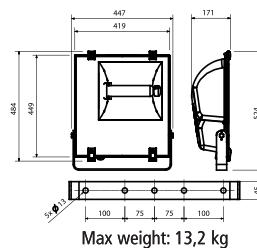
HSI-THX 250W



SHP-TS 400W



HSI-THX 400W



Max weight: 13,2 kg

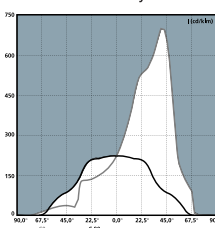
Sylveo 2**Ta**
40 °C**IP 65**

Asymmetric reflector

**LAMP
INCLUDED**Wind exposed surface: 0,11m²

230V / 240V - 50Hz

850°C

SHP-TS 250W-Asymmetric

I max at 41°: 700 cd/klm
 Transversal aperture: 11° - 52°
 Longitudinal aperture: 2x37°

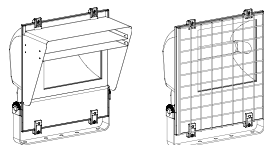
- > Robust die-cast and streamlined aluminium body
- > High performances
- > Gear box & lamp included

Applications

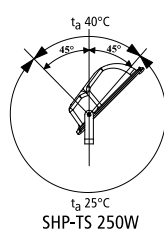
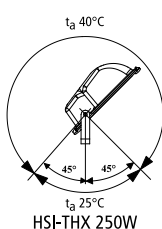
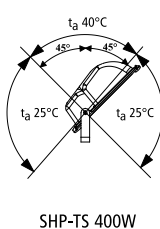
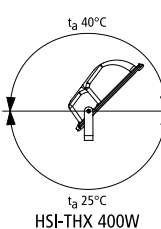
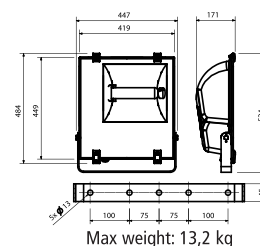
Sport pitch (Football, Tennis, Squash, ...), Gymnasiums, Hippodromes, Airport terminals, Ski jumping, Public gardens, Parks, Historic buildings, Industrial buildings sides (facades), Factories, warehouses, Car parks (Exterior or interior entries,...), Garages, Shooting range, Bridges, Billboards, Petrol stations, Highway stops, Swimming pools, (...)

Asymmetric

		Colour temp. (°K)	Light Output (lm)	CRI Class	Current (A)	Voltage (V)
METAL HALIDE						
Sylveo 2 HSI-THX 250W	0039873	4500	20000	2B	2,1	130
Sylveo 2 HSI-THX 400W	0039874	4200	36000	2B	3,4	130
HIGH PRESSURE SODIUM						
Sylveo 2 SHP-TS 250W	0039875	2050	32000	4	2,95	100
Sylveo 2 SHP-TS 400W	0039876	2050	55000	4	4,5	100

**Accessories**

Glare control visor	5039877
Protective grid	5039878

**SHP-TS 250W****HSI-THX 250W****SHP-TS 400W****HSI-THX 400W**

Max weight: 13,2 kg





FMD 1000 Rectangular

Separated control gear



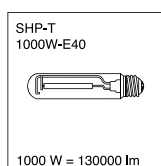
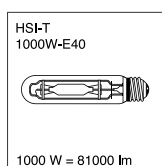
- > Easy to manipulate.
- > Choice of reflectors: extensive or intensive.

Description

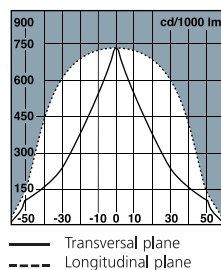
Injected aluminium alloy frame and body, black coated polyester anti-corrosive protection. Reinforced protective glass and silicone gasket. Intensive or extensive reflector in specular or hammered aluminium. Adjustable E40 lamp holder with safety catch. Supply cable entry through a Ø10 mm cable gland. Fixing bracket for adjustment on site.

Installation & Maintenance

Fix and secured thanks to 3 holes in the bracket after adjustment in azimuth. Adjustable on site. Access to the lamp by opening the frame. Separate control gear, provide for corresponding gear tray.

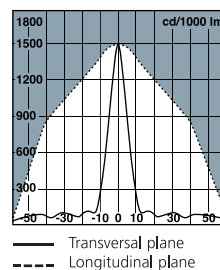


FMD 1000 ext./SHP-T 1000



Transversal aperture: 2x22°
Longitudinal aperture: 2x45°

FMD 1000 int./SHP-T 1000



Transversal aperture: 2x8°
Longitudinal aperture: 2x44°

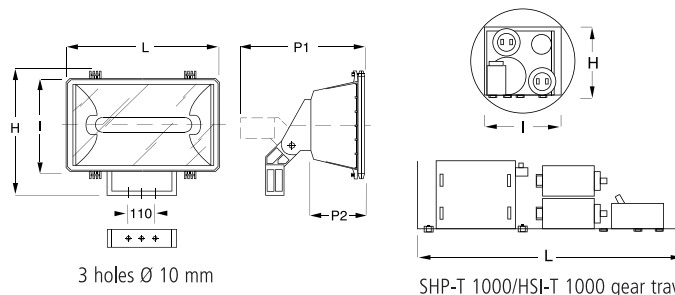
Applications

Lighting of large sporting, commercial and industrial facilities.

FMD 1000 Ext.	0043714
FMD 1000 Int.	0043763
Gear tray	
SHP-T 1000 W AIT2-230 V	9058395
HSI-THX 1000 W AIP-230 V	9058398

dimensions (mm)

	L	I	P1	P2	H	Weight (kg)
Floodlight						
FMD 1000	560	350	450	190	445	10.6
Gear tray						
SHP-T 1000 W	590	103	-	-	100	13.21
HSI-T 1000 W	590	103	-	-	100	11.32



FMD 2000 Rectangular

Separated control gear



- > Easy to manipulate.
- > Extensive reflector.

Description

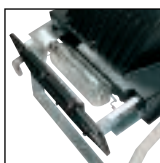
Injected aluminium alloy body black polyester coated anti-corrosive protection.
Protective reinforced glass with silicone gasket.
Extensive reflector in hammered aluminium.
E40 adjustable lamp holder with safety catch.
Supply cable entry through a Ø14 mm cable gland. Fixing bracket for adjustment on site.

Installation & Maintenance

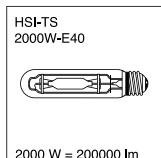
Fix and secured thanks to 5 holes in the bracket after adjustment in azimuth.
Adjustable on site. Access to the lamp through the back enabling easy installation of the lamp supported on both ends.
Separate control gear, provide for corresponding gear tray.



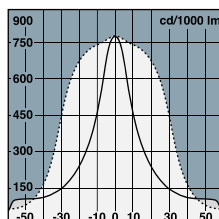
Azimuth adjustment



Access to the lamp through back



FMD 2000 ext./HSI-T 2000



Transversal aperture: 2x10°
Longitudinal aperture: 2x33°

Applications

Lighting of large sporting, commercial and industrial facilities.

FMD 2000 Ext. **0043726**

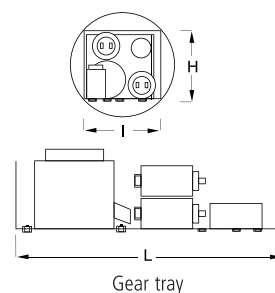
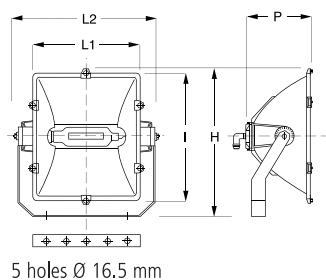
Gear tray

2000 W 400 V with Ignitor **9058399**

2000 W 400 V without Ignitor **5059494**

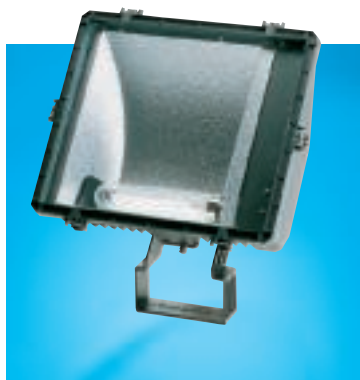
dimensions (mm)

	L	L1	L2	I	P	H	Weight (kg)
Floodlight							
FMD 2000	-	560	770	680	370	370	23.6
Gear tray							
HSI-T 2000W/400V 550	-	-	-	140	-	115	18.3



FMD 1000/2000 Asymmetrical

Separated control gear



- > Asymmetrical distribution.
- > Reducing glares.
- > Masts height limited.
- > Low wind catch.

Description

Injected aluminium alloy body black polyester coated anti-corrosive protection.
Protective glass (1000 W) or reinforced glass (2000 W) and silicone gasket.

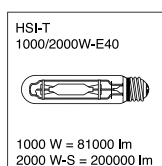
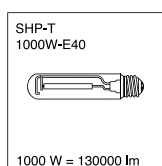
Asymmetrical reflector in hammered aluminium. Adjustable E40 lamp holder with safety catch.

Supply cable entry through a Ø10 mm cable gland (1000 W), or Ø14 mm one (2000 W).
Fixing bracket for adjustment on site.

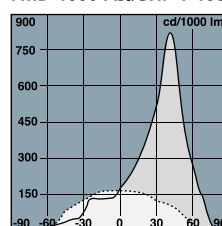
Installation & Maintenance

Fix and secured thanks to 3 holes in the bracket after adjustment in azimuth.

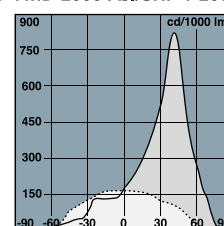
Adjustable on site. Access to the lamp through the frame (1000 W) or through the back (2000 W). Separate control gear, provide for corresponding gear tray.



FMD 1000 As./SHP-T 1000 FMD 2000 As./SHP-T 2000



Max. at $\varphi=40^\circ$
Transversal aperture: 38°



Max. at $\varphi=40^\circ$
Transversal aperture: 38°

Applications

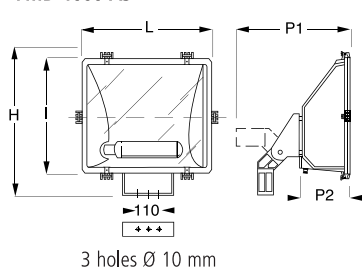
For outdoor and indoor lighting, e.g. sporting facilities, ice skating rings, warehouses and wide open spaces, like docks, interchanges, marshallings, yards or airports.

FMD 1000 As	0039449
FMD 2000 As	0039450
Gear tray	
SHP-T 1000 W AIT-230 V	9058395
HSI-THX 1000 W AIP-230 V	9058398
HSI 2000 W 400 V with Ignitor	9058399
HSI 2000 W 400 V without Ignitor	5059494

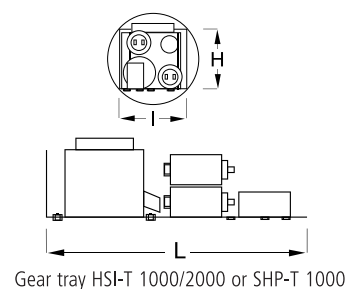
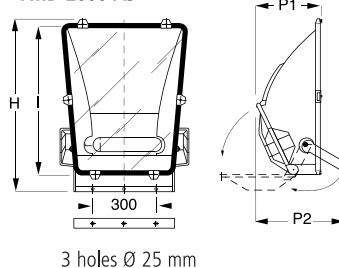
dimensions (mm)

	L	I	P1	P2	H	Weight (kg)
Floodlight						
FMD 1000 As	560	490	445	220	560	13
FMD 2000 As	680	870	560	410	1000	30
Gear tray						
9058395	590	103	-	-	100	13.21
9058398	590	103	-	-	100	11.32
9058399	550	140	-	-	115	-
5059494	550	140	-	-	115	-

FMD 1000 As



FMD 2000 As



FMD 1000/2000 Circular

Separated control gear



- > Circular floodlight with protected reflector.
- > Narrow beam.

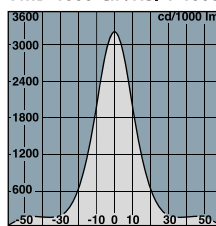
Description

Injected aluminium alloy body and frame, black polyester coated anti-corrosive protection. Reinforced protective glass and silicone gasket. Intensive reflector in specular aluminium. Adjustable E40 lamp holder with safety catch. Supply cable entry through a Ø10 mm cable gland (1000 W) or Ø14 mm one (2000 W). Fixing bracket for adjustment on site.

Installation & Maintenance

Fix and secured thanks to 3 holes in the bracket after adjustment in azimuth. Adjustable on site. Access to the lamp through the back or by opening of the glass (ovoid lamps). Separate control gear, provide for corresponding gear tray.

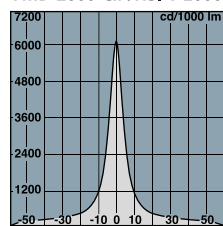
FMD 1000 Cir./HSI-T 1000



Transversal plane

Transversal aperture: 2x12°

FMD 2000 Cir./HSI-T 2000



Transversal plane

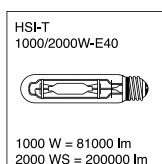
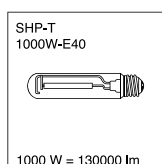
Transversal aperture: 2x5°

Applications

For FMD 1000/2000 Circular:

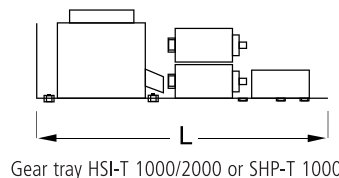
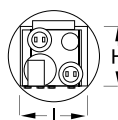
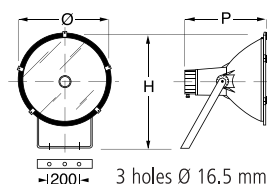
For wide spaces and illuminations lighting, e.g. marshallings yards, bypasses, interchanges and tolls.

FMD 1000	0039452
FMD 2000	0039453
SHP-T 1000 W AIT2-230 V	9058395
HSI-THX 1000 W AIP-230 V	9058398
HSI 2000 W 400 V with Ignitor	9058399
HSI 2000 W 400 V without Ignitor	5059494



dimensions (mm)

	Ø	P	H	L	I	Weight (kg)
Floodlight						
FMD 1000 Circular	618	530	780	-	-	17.1
FMD 2000 Circular	860	625	960	-	-	25.4
Gear tray						
9058395	-	-	100	590	103	13.21
9058398	-	-	100	590	103	11.32
9058399	-	-	115	550	140	-
5059494	-	-	115	550	140	-



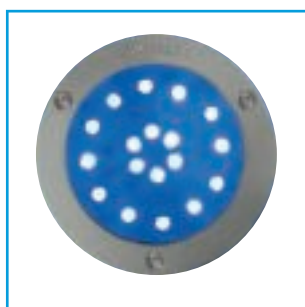
Gear tray HSI-T 1000/2000 or SHP-T 1000



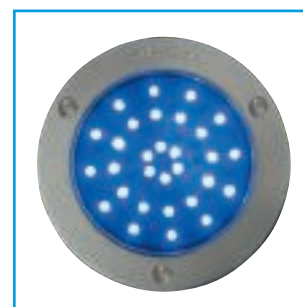
In ground recessed luminaires



P.189



P.190



P.191



P.192



P.193



P.194



P.196



P.198



P.199



PALMYRA

PALMYRA is an in-ground recessed product range suitable for orientation & indirect lighting. It exists in different diameters and beam angles, using LED, compact fluorescent, halogen or metal halide lamps. Designed for large indoor & outdoor applications
IP 68 at 0,5m
 t_a 25°C

[Description]

Die-cast aluminium housings and collars, dark grey polyester powder coated.
Anti-corrosion painting treatment.
10mm toughened glass.
Silicone gasket.
Supplied complete with gear box and lamp.
230 / 240V-50Hz tapped ballasts delivered connected on 240V.
Appropriate recessed kit included.

[Installation & Maintenance]

Insert directly using the installation kit.
Ensure adequate drainage in the lower part where there is a risk of water accumulation.
Cable entry in the lower part through M20 cable gland using H07RNF wires.
Postpone installation & maintenance in case of bad weather conditions.
Proceed to a 30min operation before closing the luminaire.
Direct front access to lamp and gear box by removing the collar fixed with the stainless steel screws.

Palmyra Ø50 mm



**LAMP
INCLUDED**



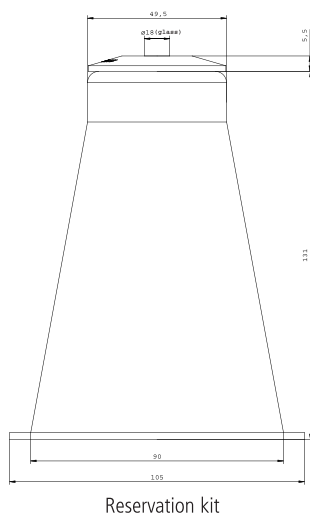
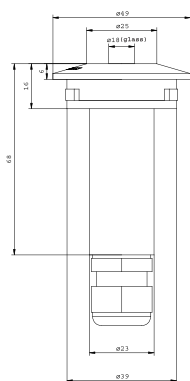
- > Suitable for wall mounted.
- > Delivered with 2G1 HO7RNF cable 3m.
- > Withstand to 500kg static.

Description

Housing & circular plate in stainless steel.
10mm tempered glass fixed on a silicon gasket.
Single nickel steel M16 cable gland entry.
3 LED on a PCB included operated on 12V.

Applications

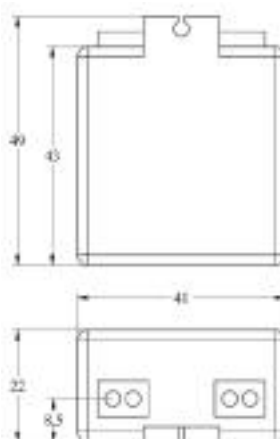
Ideally suited for improvement of green areas, gardens, illuminations of monuments, building facades, walkways, private access,...



		Lamp			Temperature
		Type	Wattage	Intensity	
Palmyra ø50 LED W	0053191	White LED	0,25W	24cd	35 °C
Palmyra ø50 LED B	0053192	Blue LED	0,25W	12cd	35 °C

Accessory

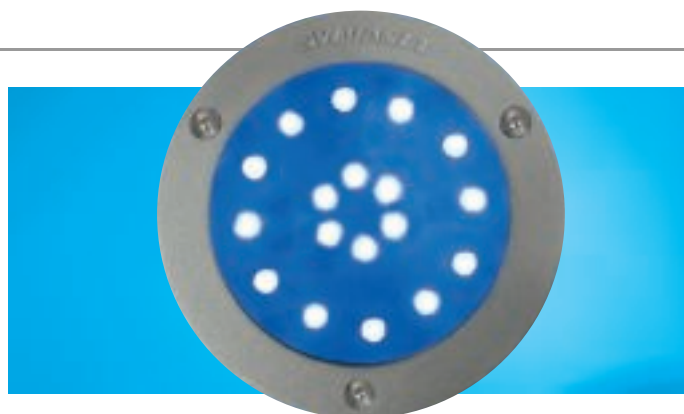
12V converter 0.6A max **5053193**
(Suitable for 12 luminaires max.)



12 V Converter

Palmyra Ø90 mm

**LAMP
INCLUDED**



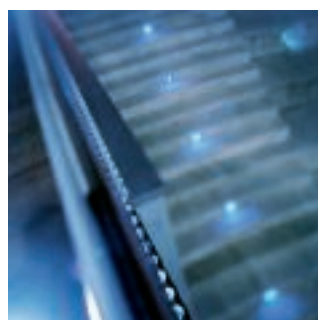
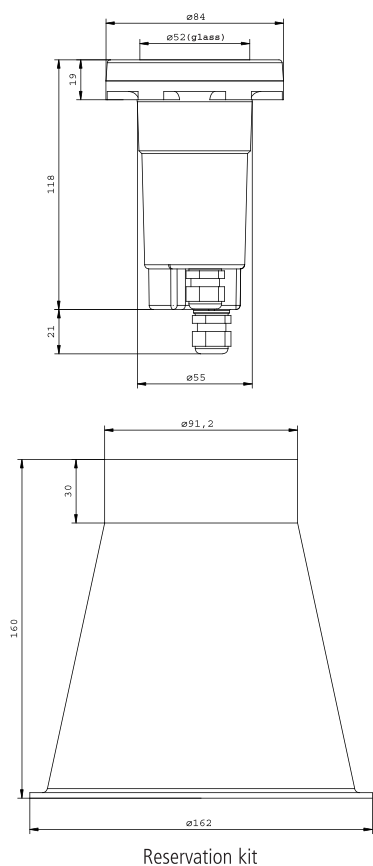
> Withstand to 1 ton static.

Applications

Ideally suited for improvement of green areas, gardens, illuminations of monuments, building facades, walkways, private access,...

Description

Double M16 chrome plate brass cable gland entry.
Stainless steel fixing screws.
18 LED on a PCB included operated on main supply.



		Lamp			Temperature
		Type	Wattage	Intensity	
Palmyra ø90 LED W	0053189	White LED	1.4 W	144cd	35 °C
Palmyra ø90 LED B	0053190	Blue LED	1.4 W	72cd	35 °C

Palmyra Ø140 mm

**LAMP
INCLUDED**

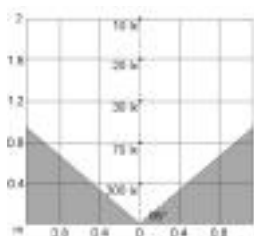


Palmyra Ø140 + Square plate

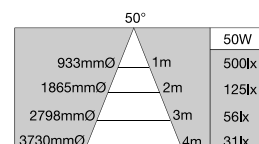
> Withstand to 1 ton at 30 km/h.

Description

Stainless steel fixing screws.
Double M16 cable entries.
30 LED on a PCB included operated on main supply.
Or compact fluorescent Micro-Lynx
& Hi-Spot ES 50 lamp type included.



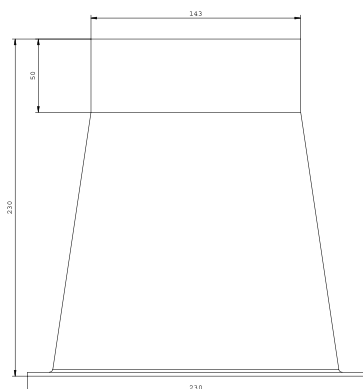
Palmyra Ø140
Frosted Micro lynx 6W



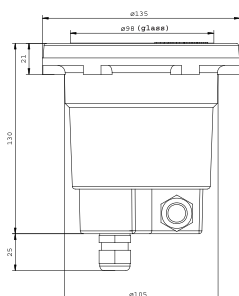
Palmyra Ø140 HI-Spot ES 50

Applications

Ideally suited for improvement of green areas, gardens, illuminations of monuments, building facades, walkways, private access,...



Reservation kit



		Lamp			
		Type	Wattage	Flux Intensity	°K Temperature
Palmyra Ø140 LED W	0053184	White LED	2.1W	240cd	40°C
Palmyra Ø140 LED B	0053185	Blue LED	2.1W	120cd	40°C
Palmyra Ø140 Micro lynx + frosted glass	0053182	Micro Lynx	6W	220lm	4000 60°C
Palmyra Ø140 Hi-spot ES50	0053183	Hi-spot ES50	50W	500cd	2750 115°C

Accessories

Palmyra Ø140 Stainless steel / Circular plate	5053186
Palmyra Ø140 Stainless steel / Square plate	5053187
Palmyra Ø140 Frosted glass	5053188

Palmyra Ø190 mm

**LAMP
INCLUDED**

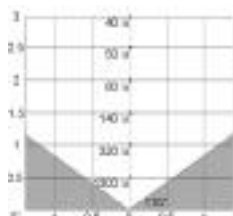


Palmyra ø190 + Square plate

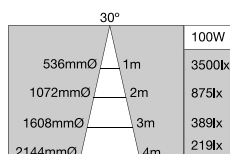


Palmyra ø190 + Circular plate

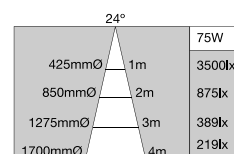
- > Withstand to 3.5 tons at 30 Km/h.
- > Anodise aluminium reflector



Palmyra ø190
Lynx-T 26W CLEAR



Palmyra ø190
Hi-Spot 95 30°



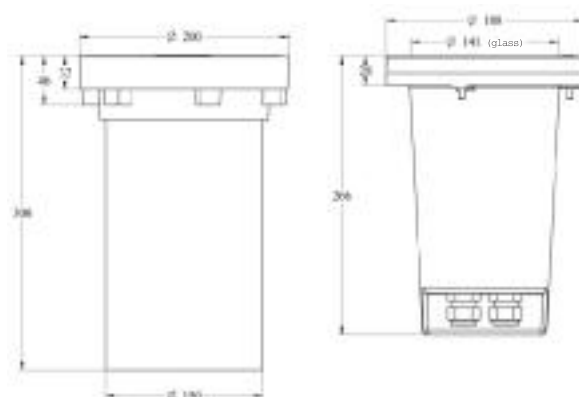
Palmyra ø190
Hi-Spot ES111 24°

Description

Stainless steel fixing screws.
Double M20 cable gland entries.
For halogen lamps Hi-spot 95 & ES 111 included.
Or compact fluorescent Lynx-D 18W & Lynx-T 26W included.

Applications

Ideally suited for improvement of green areas, gardens, illuminations of monuments, building facades, walkways, private access,...



Reservation kit



		Lamp				Temperature
		Type	Wattage	Flux Intensity	°K	
Palmyra ø190 Hi-spot 95	0053174	Hi-spot 95	100W	3500cd	2900	<180 °C
Palmyra ø190 Hi-spot ES 111	0053175	Hi-spot ES111	75W	3000cd	2800	<180 °C
Palmyra ø190 Lynx-D 18W	0053172	Lynx-D	18W	1200lm	4000	65°C
Palmyra ø190 Lynx-T 26W	0053173	Lynx-T	26W	1800lm	4000	<100°C
Accessories						
Palmyra ø190 Stainless steel / Circular plate	5053176					
Palmyra ø190 Stainless steel / Square plate	5053177					
Palmyra ø190 Frosted glass	5053178					

Palmyra Ø290 mm



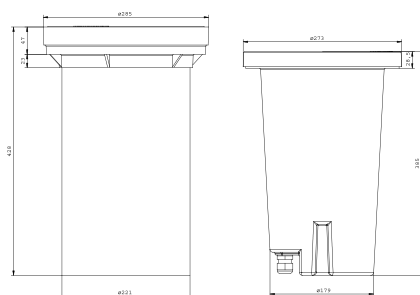
**LAMP
INCLUDED**



- > Anodised aluminium reflector
2x10° tiltable on G12 versions.
- > Withstand to 3.5 tons at 30 km/h.

Description

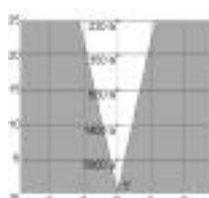
Stainless steel fixing screws.
Double M20 cable gland entries.
For metal halide G12 base lamps included.
Or metal halide Rx7S lamps included.



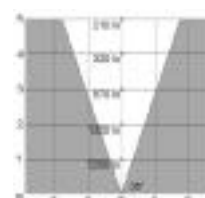
Reservation kit



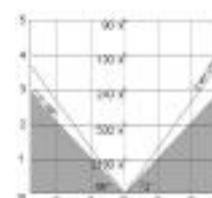
Palmyra
Ø290
+ Circular
plate



Palmyra 290 Narrow
HSI-T 70W



Palmyra 290 Medium
HSI-T 70W



Palmyra 290 Wide
HSI-TD 70W

Applications

Ideally suited for improvement of green areas, gardens, illuminations of monuments, building facades, walkways, private access,...



		Lamp				Beam	Temperature
		Type	Wattage	Flux (lm)	°K		
Palmyra Ø290 CMI-T 35W N	0053160	CMI-T	35W	3400	3000	Narrow	115° C
Palmyra Ø290 CMI-T 35W M	0053161	CMI-T	35W	3400	3000	Medium	115° C
Palmyra Ø290 HSI-T/CMI-T 70W N	0053162	HSI-T	70W	5200	4200	Narrow	130° C
Palmyra Ø290 HSI-T/CMI-T 70W M	0053164	HSI-T	70W	5200	4200	Medium	<180° C
Palmyra Ø290 HSI-T/CMI-T 150W N	0053163	HSI-T	150W	12500	4200	Narrow	130° C
Palmyra Ø290 HSI-T/CMI-T 150W M	0053165	HSI-T	150W	12500	4200	Medium	160° C
Palmyra Ø290 HSI-TD/CMI-TD 70W W	0053166	HSI-TD	70W	5800	4200	Wide	160° C
Palmyra Ø290 HSI-TD/CMI-TD 150W W	0053167	HSI-TD	150W	13000	4200	Wide	175° C

Accessories

Palmyra Ø290 Louvre	5053168
Palmyra Ø290 Stainless steel / Circular plate	5053169
Palmyra Ø290 Stainless steel / Square plate	5053170
Palmyra Ø290 Frosted glass 10mm	5053171
Palmyra Ø290 Frosted glass 15mm	5053159

Palmyra C1 - C2 - C4

**LAMP
INCLUDED**



C2



C4



C1



- > Orientation lighting.
- > Suitable for wall lighting.
- > Withstand to 1 ton at 20 km/h.

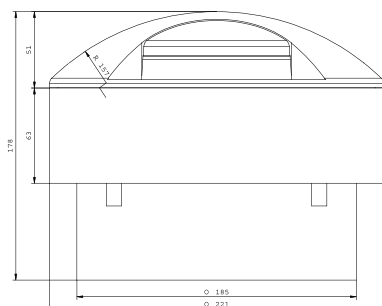
Applications

Ideally suited for improvement of green areas, gardens, illuminations of monuments, building facades, walkways, private access,...

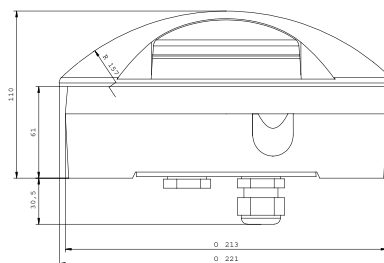
Description

Stainless steel fixing screws.
Protective glass 8mm deep.
Double M20 entries with one cable gland and one grommet.

For halogen 50W lamp GY6.35 type.
Lamp and transformer included.



Reservation kit



				Lamp	
				Type	Wattage
					Intensity (cd)
					Temperature
Palmyra C1 Halogen 50W	0053179	Capsule	50W	1000	70° C
Palmyra C2 Halogen 50W	0053180	Capsule	50W	1000	70° C
Palmyra C4 Halogen 50W	0053181	Capsule	50W	1000	70° C

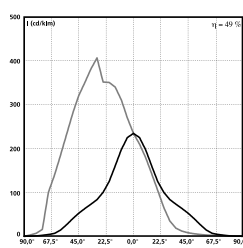


Palmyra square

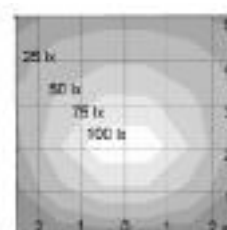
**LAMP
INCLUDED**



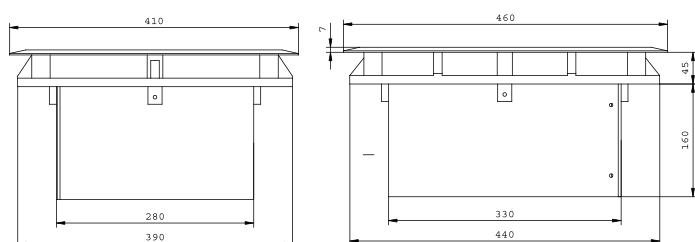
- > Asymmetric version
- > Anodised aluminium reflector.
- > Withstand to 3.5 tons at 30 km/h.



Palmyra Square
HSI-TD 70W



Palmyra Square
HSI-TD 150W at 2m



Applications

Ideally suited for improvement of green areas, gardens, illuminations of monuments, building facades, walkways, private access,...

Description

2.5mm housing in deep die cast aluminium dark grey polyester powder painted.
Plate in stainless steel 8mm depth.
19mm tempered glass placed on a silicon gasket.
Stainless steel fixing screws.
Double M20 cable gland entries.
For HSI-TD 70 & 150W lamp type included.

		Lamp				Beam	Temperature
		Type	Wattage	Flux (lm)	°K		
Palmyra SQ HSI-TD 70W	0053194	HSI-TD	70W	5800	4200	ASYM.	110°C
Palmyra SQ HSI-TD 150W	0053195	HSI-TD	150W	13000	4200	ASYM.	125°C



SYLEOS

SYLEOS is a flat rectangular in-ground recessed product range suitable for orientation & indirect lighting.

It exists in different lengths, using LED, compact or linear T5 fluorescent lamps.

Designed for large indoor & outdoor applications.

IP 68 at 0,5m.

t_a 25°C.

(Description)

Robust die-cast aluminium housing and closures, dark grey polyester powder coated.
Anti-corrosion painting treatment.
Stainless steel front plate 3 to 12mm thick optional.
10mm to 12mm toughened glass.
Silicone gaskets.
Supplied complete with gear box and lamp.
Appropriate recessed kit included.

(Installation & Maintenance)

Insert directly using the installation kit.
Ensure adequate drainage in the lower part where there is a risk of water accumulation.
Cable entry in the lower part through M20 cable gland using H07RNF wires.
Postpone installation & maintenance in case of bad weather conditions.
Proceed to a 30min operation before closing the luminaire
Direct front access to lamp and gear box by removing the collar fixed with the stainless steel screws.

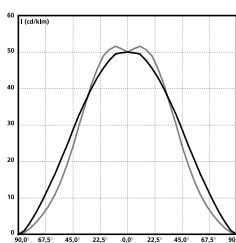
Syleos 300

**LAMP
INCLUDED**



Syleos 300 + Plate

Syleos 300 LED + Plate



Syleos 300 Lynx-D 18W

- > Suitable for wall lighting.
- > Withstand to 2 tons at 20 Km/h.

Applications

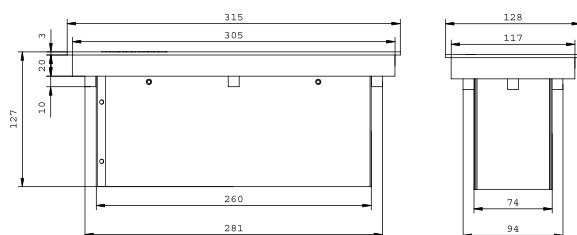
Orientation lighting, ideally suited for improvement of green areas, gardens, illuminations of monuments, building facades, walkways, private access,...

Description

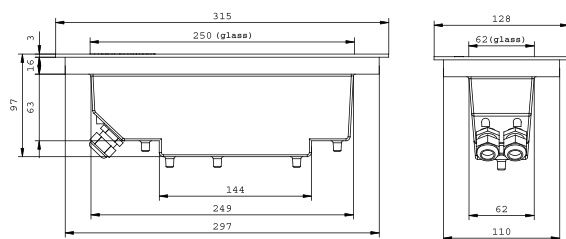
12mm frosted (CFL) or clear (LED) tempered glass placed on a silicon gasket. Double M16 cable gland entry.

For Lynx-D 18W lamp type included

Or LED on a PCB included operated on main voltage.



Reservation kit



Lamp				Temperature
Type	Wattage	Flux/ Intensity	°K	
Lynx-d	18W	1200lm	4000	60°C
White LED	2.4W	192cd		40°C
Bleu LED	2.4W	96cd		40°C

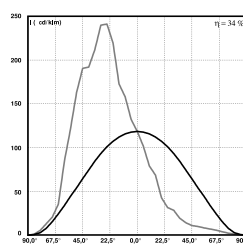
Accessory

Syleos 300 Stainless steel plate	5053214
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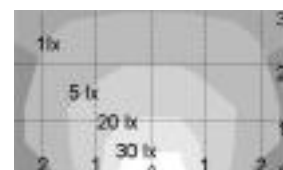
Syleos T5



**LAMP
INCLUDED**



Syleos 600 1x14W



Syleos 600 at 0,5m

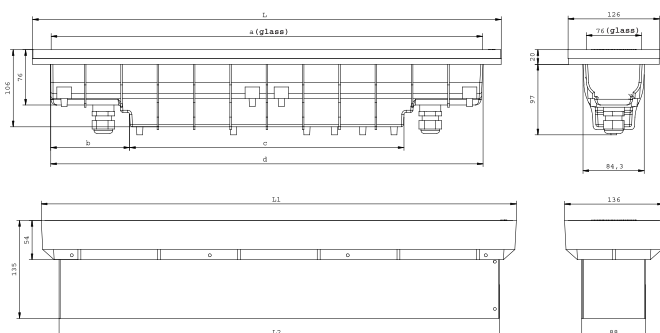
- > Asymmetric version.
- > Anodised aluminium reflector.
- > Adjusted glare control louver.
- > Withstand to 2 tons at 20 km/h.

Applications

Orientation lighting, building facades, illuminations of monuments, green areas, gardens improvement walkways, private access...

Description

12mm cover plate. 10mm tempered glass placed on a silicon gasket.
Double M20 cable gland entry.
For linear T5 FHE lamps type included.



	L	a	b	c	d
Syleos 600	645	594	109	377	595
Syleos 900	945	894	309	377	895
Syleos 1200	1245	1194	459	403	1195

	L1	L2
Syleos 600	654	606
Syleos 900	954	906
Syleos 1200	1254	1206

		Lamp				Temperature
		Type	Wattage	Flux	°K	
Syleos 600 T5	0053208	Coolwhite Deluxe	14W	1350	4000	35°C
Syleos 900 T5	0053209	Coolwhite Deluxe	21W	2100	4000	35°C
Syleos 1200 T5	0053210	Coolwhite Deluxe	28W	2900	4000	35°C

Accessories

Syleos 600 Frosted glass	5053211
Syleos 900 Frosted glass	5053212
Syleos 1200 Frosted glass	5053213

WALL MOUNTED offer is a designed range either recessed or surface mounted luminaires suitable for orientation and accentuation light. Supplied complete with compact fluorescent, halogen or metal halide lamps.

- > Designed for large indoor & outdoor applications
- > IP 68 at 0,5m
- > t_a 25°C

WALL MOUNTED

(Description

Robust die-cast aluminium housing, dark grey polyester powder coated.
Anti-corrosion painting treatment.
Silicone gaskets.
Supplied complete with gear box and lamp.
Appropriate recessed kit included.

(Installation & Maintenance

Insert directly using the installation kit.
Ensure adequate drainage in the lower part where there is a risk of water accumulation.
ø 22 cm cable grommet entry.
Direct front access to lamp and gear box by removing front frame fixed with the stainless steel screws.

Wall mounted luminaires



P.202



P.202



P.203



P.203



P.203



P.204



P.205



P.206



P.206

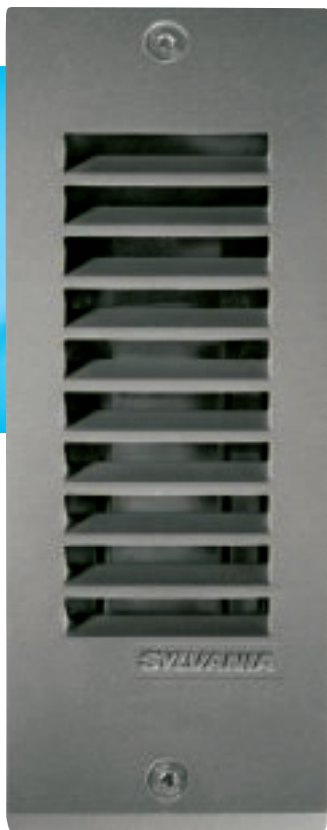


P.207

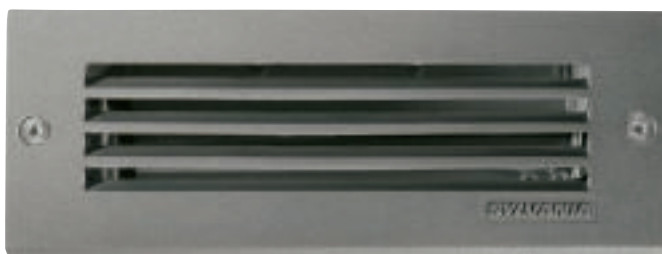
Mureo V & H



Mureo V-Halogen



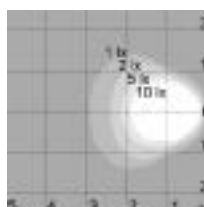
Mureo V-Lynx



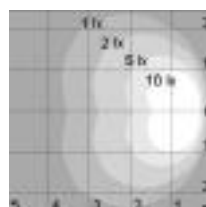
Mureo H



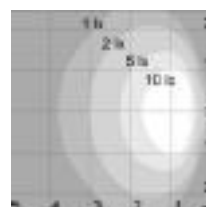
- > Wall or step lighting.
- > Internal or external use.



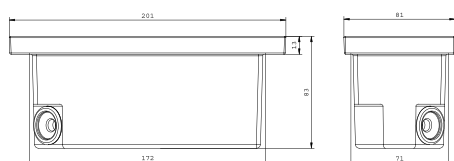
Mureo V-Halogen
H = 1,0 m



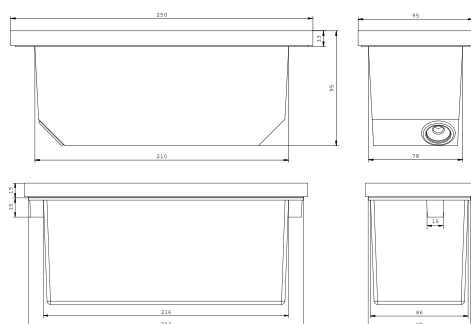
Mureo V-Lynx-D
H = 1,0 m



Mureo H-Lynx-D
H = 1,0 m



Halogen version



Reservation kit
For both V & H Lynx-D versions

Description

Die cast aluminium frame with a 45° tilt protective grid.
Protective glass 3mm deep.
Anodised aluminium internal reflector.

For Hi-Spot ES 50 lamp type or compact fluorescent lamp 18W G24d-2 type.

				Lamp		
		Type	Wattage	Flux/Intensity	°K	
Mureo V Halogen 50W	0053120	Hi-spot ES 50 25°	50W	1360cd	2750	
Mureo V Lynx-D 18W	0053121	Lynx-D	18W	1200lm	4000	
Mureo H Lynx-D 18W	0053122	Lynx-D	18W	1200lm	4000	

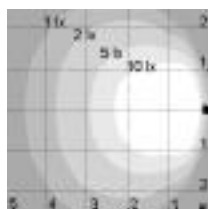
Rytmo

**LAMP
INCLUDED**

> Internal or external use.



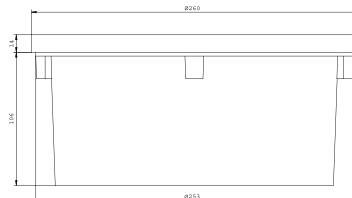
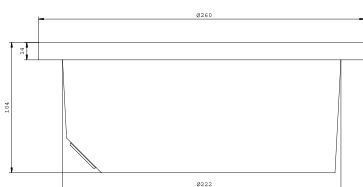
* RYTHMO C



Rytmo Lynx-D
H = 1,0 m



Rytmo C Lynx-D
H = 1,0 m



Reservation kit



Rytmo C



Description

Die cast aluminium frame with a 45° tilt protective grid for Rytmo & a glass cover for Rytmo C.
Protective glass 3mm deep.
Anodised aluminium internal reflector.

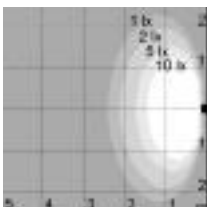
For compact fluorescent lamp 18W G24d-2 type included.

		Lamp			
		Type	Wattage	Flux (lm)	°K
Rytmo Lynx-D 18W	0053125	Lynx-D	18W	1200	4000
Rytmo C Lynx-D 18W	0053127	Lynx-D	18W	1200	4000

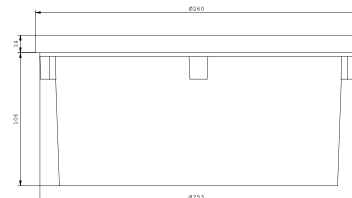
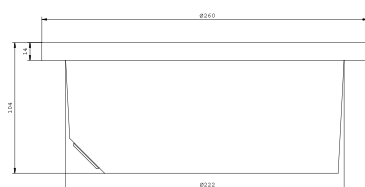
Rytmo AS

**LAMP
INCLUDED**

> Internal or external use.



Rytmo AS Lynx-D
H = 1,0 m



Reservation kit



Description

Die cast aluminium frame with protective glass 3mm deep.
Asymmetric anodised aluminium internal reflector.

For compact fluorescent lamp 18W G24d-2 type included.

		Lamp			
		Type	Wattage	Flux (lm)	°K
Rytmo AS Lynx-D 18W	0053126	Lynx-D	18W	1200	4000

Palmyra C1 - C2 - C4

LAMP
INCLUDED

C2



C4



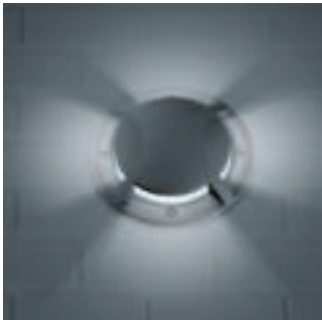
C1



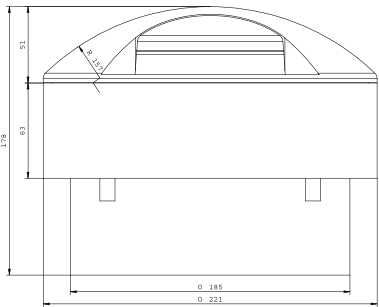
- > Orientation lighting.
- > Internal or external use.

Description

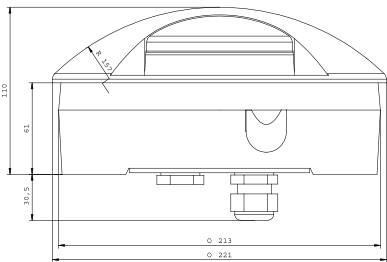
Die cast aluminium housing with protective glass 8mm deep.
Double M20 entries with one cable gland and one grommet.
For halogen 50W lamp GY6,35 type.
Lamp and transformer included.



		Lamp			Temperature
		Type	Wattage	Intensity (cd)	
Palmyra C1 Halogen 50W	0053179	Capsule	50W	1000	70° C
Palmyra C2 Halogen 50W	0053180	Capsule	50W	1000	70° C
Palmyra C4 Halogen 50W	0053181	Capsule	50W	1000	70° C

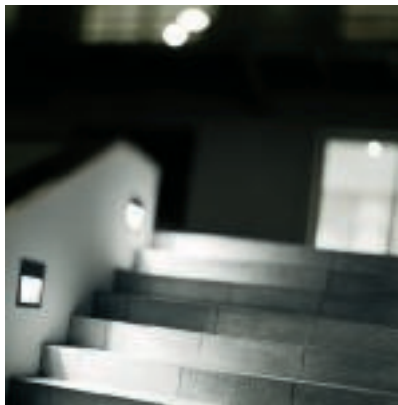


Reservation kit



Tanna

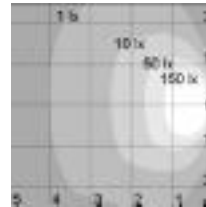
**LAMP
INCLUDED**



- > Orientation lighting.
- > Internal or external use.



Tanna Lynx-D 26W
H = 1,0m

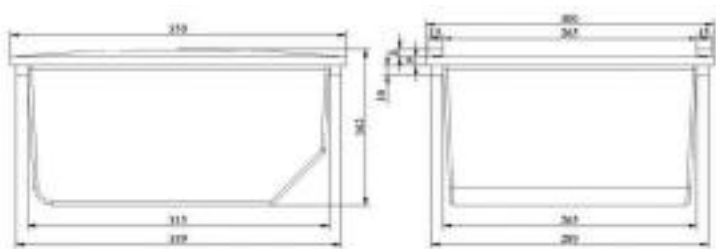


Tanna HSI-MP 70W
H = 1,0m

Description

Die cast aluminium housing with a 3mm deep protective glass.
Asymmetric anodised aluminium internal reflector.

For Metal halide 70W HSI-MP lamp type.
Or compact fluorescent 26W lamp G24d-3 type included.



		Lamp			
		Type	Wattage	Flux (lm)	°K
Tanna Lynx-D 26W	0053130	Lynx-D	26W	1800	4000
Tanna HSI-MP 70W	0053131	HSI-MP	70W	5500	3800

Borneo 50 & 100

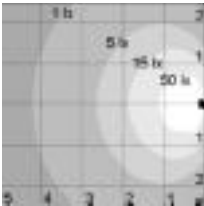
LAMP
INCLUDED



Borneo 50



Borneo 100



Borneo 50-Lynx-s
H = 1,0 m



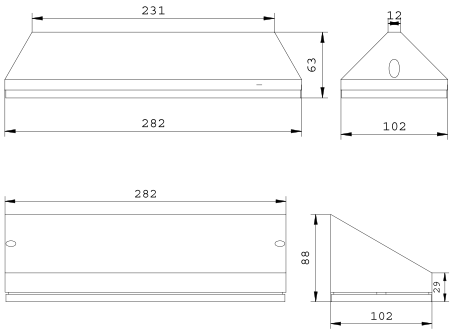
Borneo 100-Lynx-s
H = 1,0 m

> Internal or external use.

Description

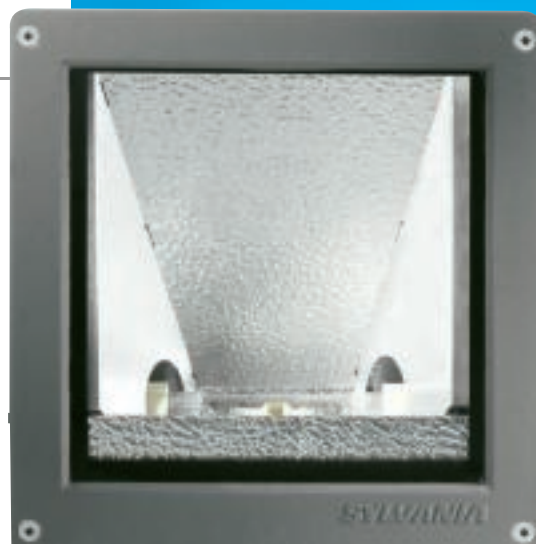
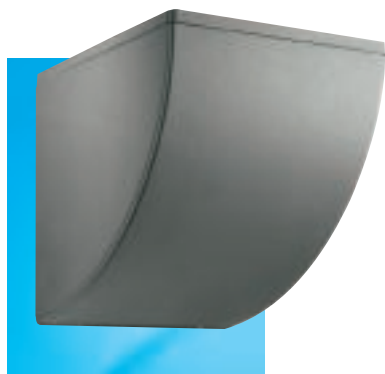
Die cast aluminium frame with a 45° tilt protective grid & 3mm glass for BORNEO 50 and a glass closure 3mm deep for BORNEO 100. Anodised aluminium internal reflector.

For compact fluorescent lamp 11W G23 type included.



		Lamp			
		Type	Wattage	Flux (lm)	°K
Borneo 50 lynx-S 11W	0053135	Lynx-S	11W	900	4000
Borneo 100 lynx-S 11W	0053136	Lynx-S	11W	900	4000

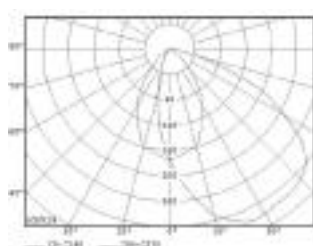
Makira 200



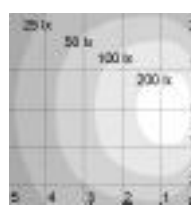
**LAMP
INCLUDED**



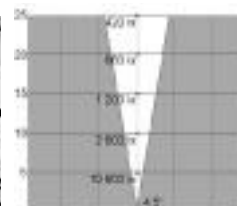
- > Compact surface mounted luminaire.
- > Internal or external use.
- > For direct or indirect installations.



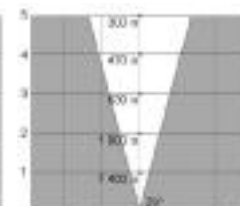
Makira 200 AS Lynx-D 26W



Makira 200 AS
HSI-TD 70W
H = 3,0m



Makira 200 Narrow
HSI-T 70W



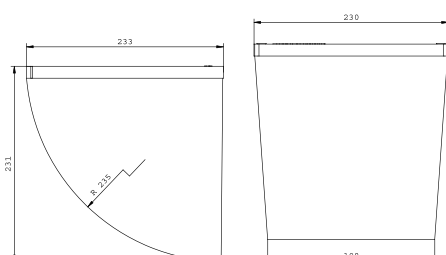
Makira 200 Wide
HSI-T 70W



Description

Extensive or intensive anodised aluminium reflectors. MAKIRA 200 AS uses asymmetric anodised aluminium reflectors. Die cast aluminium housing with protective glass 3 mm deep.

For Metal halide 35 CMI-T or 70W HSI-T / HSI-TD lamp types. Or compact fluorescent 26W lamp G24d-3 type included.



		Lamp				Beam
		Type	Wattage	Flux (lm)	°K	
Makira 200 CMI-T 35W N	0053140	CMI-T	35W	3400	3000	NARROW
Makira 200 CMI-T 35W W	0053141	CMI-T	35W	3400	3000	WIDE
Makira 200 HSI-T 70W N	0053142	HSI-T	70W	5200	4200	NARROW
Makira 200 HSI-T 70W W	0053143	HSI-T	70W	5200	4200	WIDE
Makira 200 AS lynx-D 26W	0053144	Lynx-D	26W	1800	4000	ASYM.
Makira 200 AS HSI-TD 70W	0053145	HSI-TD	70W	5500	4200	ASYM.

BOLLARDS

BOLLARDS offer is a designed and selected range suitable for external orientation light.

Two types of light distribution exist satisfying most applications.

Supplied with an E27 socket base, gear tray & lamps needs to be ordered according to your requirements.

- > LM6 die-cast aluminium polyester powder painted housings
- > Anti-corrosion treatment
- > Acrylic or polycarbonate diffusers
- > Fixing bases provided with appropriate stainless steel fixing screws
- > Various lamp choices
- > t_a 25°C

Bollards



P.210

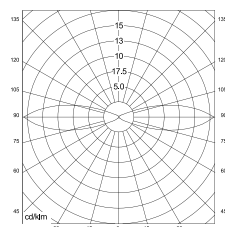


P.211

Subra



- > LM6 die-cast aluminium.
- > Easy installation.

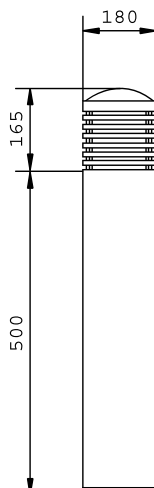


Subra Mini-Lynx T 15 W

Description

Silver powder coated. Anti-corrosive protection. Silicone gaskets. Acrylic diffuser. Anchorage set to be fixed in concrete.

For compact fluorescent Mini-Lynx T 15W lamp E27 type.
Or Metal halide 70 HSI-MP, 70W SHP-T lamp types using the appropriate gear tray.

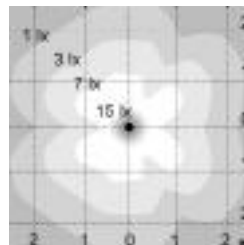


Subra grey 665 mm E27	0053225
Gear Tray HSI-MP or SHP-T up to 70W	5053226

Sylalley



- > LM6 die-cast aluminium.
- > Easy installation.

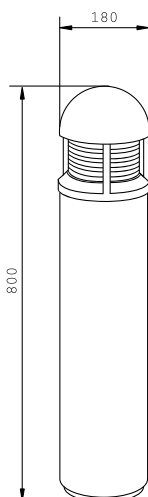


Sylalley Mini-Lynx T 15W

Description

Black powder coated. Anti-corrosive protection. High intensity polycarbonate diffuser cover. Stainless steel fixing screws. Aluminium reflecting louver.

For compact fluorescent Mini-Lynx T 15W lamp E27 type.
Or Metal halide 70 HSI-MP, 70W SHP-T lamp types using the appropriate gear tray.



Sylalley black 800mm	0053230
Gear Tray HSI-MP or SHP-T up to 70W	5053226



NAOS

NAOS is an underwater product range for fountain and pool lighting. It exists in different diameters, using very low voltage LED & halogen lamps.

- > Stainless steel or brass die cast housings
- > Designed for large applications
- > Supplied complete with lamp
- > H07RNF cable pre-connected with 3m lenght extra
- > IP 68 1m
- > t_a 25°C
- > Direct front access to lamp and gear box

Fountain Luminares



P.216



P.216



P.217



P.218



P.219

Naos 83



**LAMP
INCLUDED**



- > Compact submersible spot light.
- > 3 meters H07RNF cable connected.



	38°	
689mmØ	1m	50W
1377mmØ	2m	2250lx
2066mmØ	3m	563lx
2755mmØ	4m	250lx
		141lx

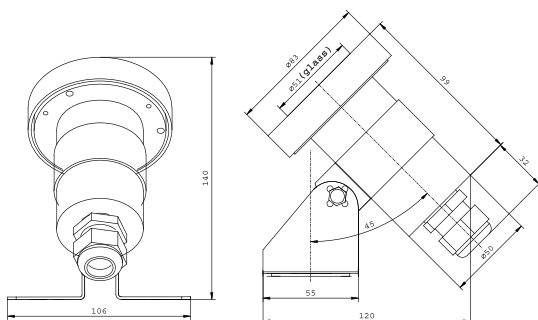
Naos 83-Hi-Spot Superia 38°



Description

11mm thick protective glass. Suitable for unsalted water.
Stainless steel fixing screws. Cylindrical disc screwed on, finishing the product design.

For LED lamp type operated on 24V.
Or Halogen 50W GX/GU5.3 lamp type operated on 12V included.



Lamp				
		Type	Wattage	Intensity
Naos 83 24LED W	0053242	White LED	2W	192cd
Naos 83 24LED B	0053243	Blue LED	2W	96cd
Naos 83 MR16 50W	0053241	Superia 38°	50W	2250

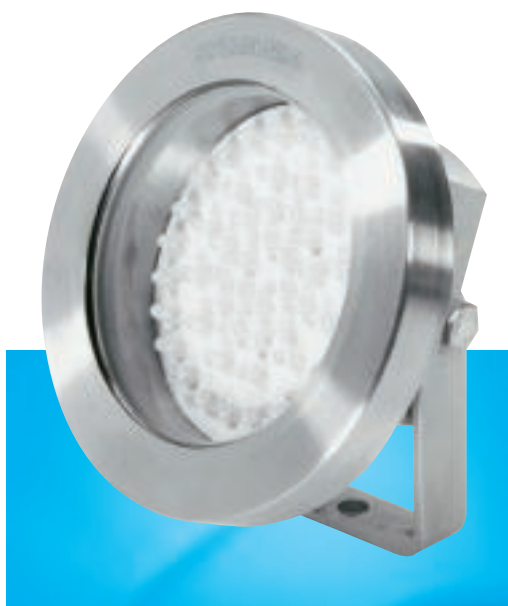
Accessory

24V converter 0.6A max **5053246**
(Suitable for 7 NAOS LED max.)

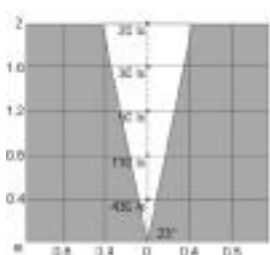


24 V Converter dimensions

Naos 135



**LAMP
INCLUDED**

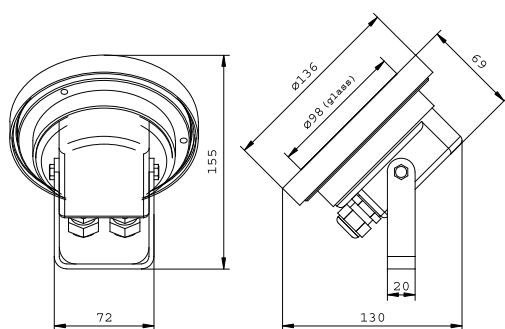


> Compact submersible spot light.

Description

11mm thick protective glass. Suitable for unsalted water. Stainless steel screws. Double M16 cable gland entry. Cylindrical disc screwed on, finishing the product design.

For LED lamp type operated on 24V included.



		Lamp		
		Type	Wattage	Intensity
Naos 135 Flat 54LED W	0053239	White LED	4.5W	432cd
Naos 135 Flat 54LED B	0053240	Blue LED	4.5W	216cd

Accessory

24V converter 0.6A max **5053246**

(Suitable for 3 NAOS 135 max.)



24 V Converter dimensions

Naos 220

LAMP
INCLUDED



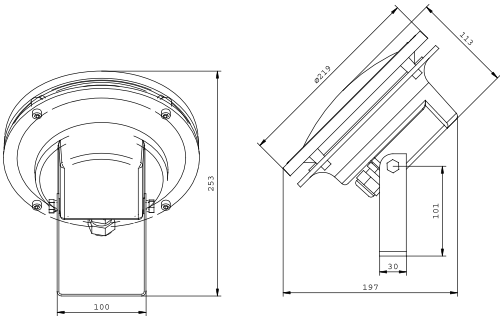
- > Compact submersible spot light.
- > Needs to be installed in water.

Description

In brass die cast. Suitable for unsalted water.
Operating on very low voltage.

For Halogen 300W PAR 56 lamp type operated on 12V included.

		Lamp			
		Type	Wattage	°K	Intensity
Naos 220 Flat	0053244	Par 56	300W	3000	12 000 cd



Naos Box



> Die-cast aluminium housing.

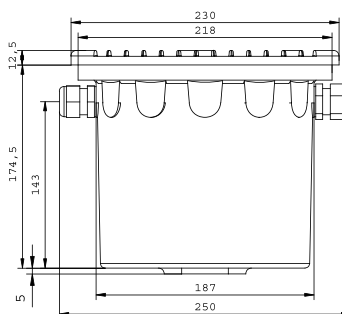
Description

Anti-corrosion treatment.

Twelve M20 cable entries, two delivered with cable glands others with screwed M20 grommets, Both in nickel steel.

Naos connecting box

0053245





AMENITY

It is because spaces need to feel friendly and reassuring in all circumstances that Sylvania has developed, through its range of light appliances, lamps which meet not only today's need but which are the same time classic and stylish. Darkness provokes a sense of insecurity which encourages burglaries and attacks.

This range of luminaires responds to the need to protect our persons and our property.

Bulkhead R245



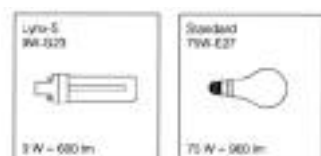
- > Wide range.
- > Aesthetic, robust.

Description

Polycarbonate base plate and crown.
2 colours : white and black.
Opal diffuser in pressed glass held by 2 cruciform screws which cannot be lost, corrosion proof (sea air).
High thermal resistance seal. Internal aluminium reflector for incandescent lamp versions.
Reflective plate to support lamp-holder/switchgear for fluorescent compact lamp versions.

Installation - Maintenance

4 oblong and 1 central fixing points Ø5 mm.
Connection through 2 insulating sheaths via a rubber grommet directly on lampholder.
Use the 2 80 mm insulating sheaths. For the fluorescent compact versions, disconnect the support plate lampholder/switchgear to connect up to the 2 P screw connector.
Access to the equipment and the fixing after removing the diffuser and reflector.



Applications

Lighting of porches, entrance halls, garage access points and public areas, terraces.

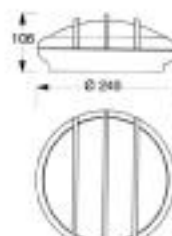
	White	Black
Hublot R245 S 2x9W	9052917	9052918
Hublot R245 S 75W	9052919	9052920
White grid		
Hublot R245 G 2x9W	9052921	9052922
Hublot R245 G 75W	9052913	9052914

Accessory

Screw kit + anti-vandal key	9052909
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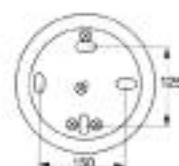
Bulkhead R245 S



Bulkhead R245 G



Access to the equipment



Deco Anti-vandal Bulkheads



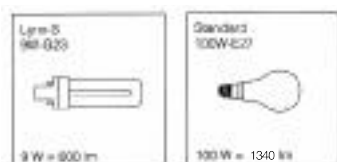
- > Aesthetic.
- > Anti-vandal.

Description

Base plate made of white thermosetting material, Ø292.
Polycarbonate diffuser with frosted interior.
Internal aluminium reflector.

Installation - Maintenance

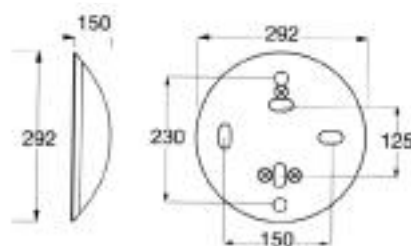
11P.2 rear cable entries. 6 fixing points, one being at each end : anti-wrench.
Diffuser fitted by 1/4 turn bayonet system.
Locking by anti-tamper screw (key supplied).
Reflective plate to support lamp holder/switchgear for fluorescent compact lamp versions.



Applications

Lighting of porches, entrance halls, garage access points, large building complexes, public areas and commercial or industrial estates.

Anti-vandal bulkheads deco	White
Hublot anti-vandal deco 100W	9052911
Hublot anti-vandal deco 2x9W	9052912



Anti-vandal Bulkheads



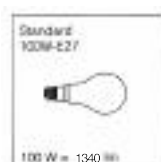
- > Compact and robust.
- > Anti-vandal.
- > NF norm.

Description

Base plate made of white thermosetting material, Ø225.
Polycarbonate diffuser with ribbed interior.
Internal aluminium reflector.

Installation - Maintenance

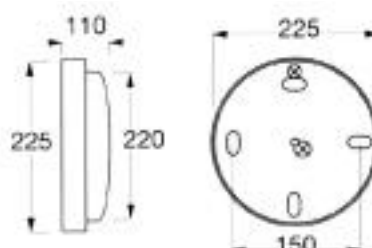
Power supply by 2 inputs P.E. 11P.2 rear cable entries. 5 fixing points, one of which is central. Diffuser fitted by 1/4 turn bayonet system. Locking by means of theft protection fixed by 3 screws which cannot be vandalised or lost (key supplied).



Applications

Lighting of porches, entrance halls, garage access points, large building complexes, public areas and commercial or industrial estates.

Anti-vandal bulkheads	White
Hublot anti-vandal 100W blanc	9052900



Sylcompact S



- > Reduced consumption.
- > Robust and decorative luminaire.

Applications

Lighting of porches entrances to residential or commercial buildings, garage access points, porch roofs.

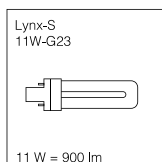
Description

Body in white polycarbonate.
Diffuser in clear polycarbonate with a ribbed interior. Aluminium internal reflector with device for holding lamp. Neoprene gasket.

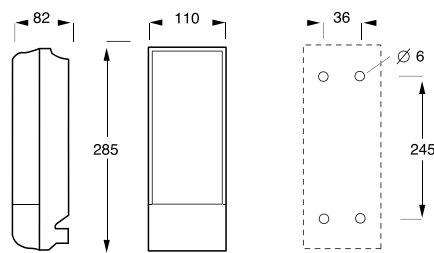
Wall mounted version	White
Sylcompact S Lynx-S 11W	0040028
Ceiling mounted version	
Sylcompact S Lynx-11W	0040029

Installation - Maintenance

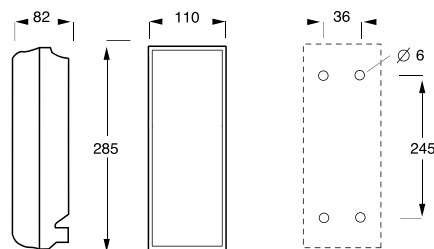
Clippable diffuser. 4 fixing points with pre-cut pads Ø6 mm. Power supply through tapered sealing grommet. Access to equipment after removal of reflector.



Wall mounted version



Ceiling mounted version



Alleykat

**LAMP
INCLUDED**



- > High performance residential, commercial and industrial lighting.
- > Security and deterrence.
- > Integrated lamps.

Description

Injected aluminium body with bronze-coloured enamel varnish, oven baked.
Parabolic aluminium internal optic to ensure optimum output and accuracy of the light beam.
Polycarbonate refractor for a good distribution of the light. Integrated electronic switchgear: ballast, clear autoigniting ovoid high pressure sodium lamp SHP 70W/CLI or standard coated one.
Supplied with horizontal vertical cast aluminium fixing accessories, screws and bolts.

Installation - Maintenance

Two positions for installation:

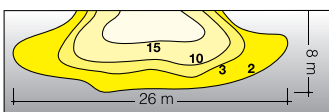
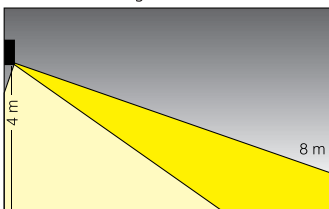
- horizontal
- vertical

Applications

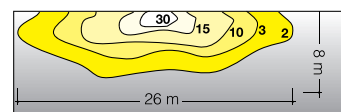
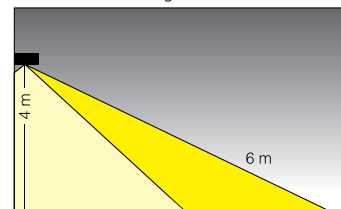
Approach lighting for industrial premises, residential and commercial buildings, external car parks, pedestrian zones.

		Lamp		
		Colour Temp. (°K)	Flux (lm)	Finish
Alleycat SHP 70W / CO / E	0043606	2050	5800	Coated
Alleycat SHP 70W / CL / I	0043608	2050	6000	Clear

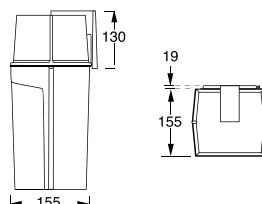
Vertical mounting



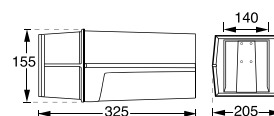
Horizontal mounting



Vertical mounting



Horizontal mounting



Sylstar 120/120 C

- > Spectacular lighting effects.
- > Easy installation.
- > White or coloured lights.
- > Delivered complete.



A 3.8 m diameter could be done in a circular installation.

Sylstar 120	9057101
Sylstar 120C	9057100

Product description

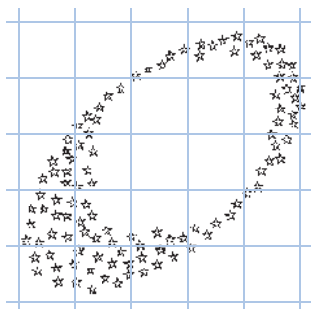
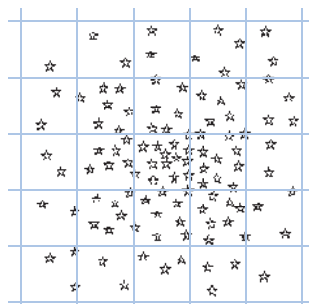
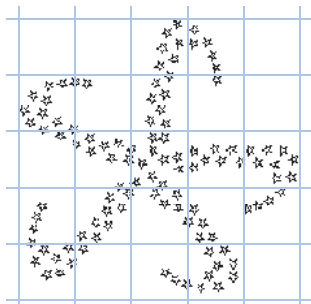
120 optic fibres Ø1 mm for decorative lighting delivered with their own generator.

- 40 optic fibres 1200 mm long.
- 40 optic fibres 1600 mm long.
- 40 optic fibres 2000 mm long.

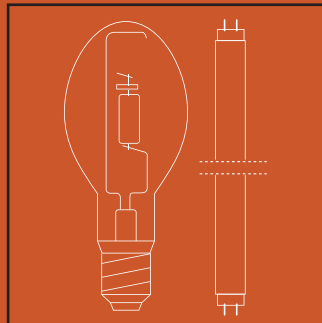
120 clips (external diameter 5.5 mm) and collars for an easy installation.

Tungsten halogen lamp 35W 12 Volts included.

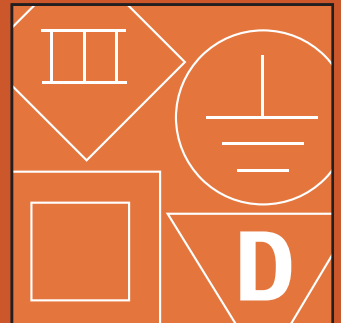
Sylstar 120C is equipped with a rotary coloured disc (2.5t/min).



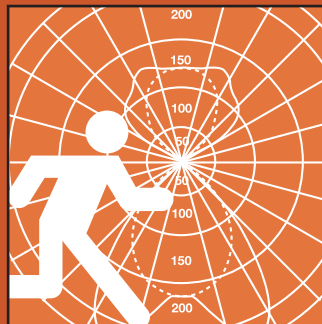
Technical



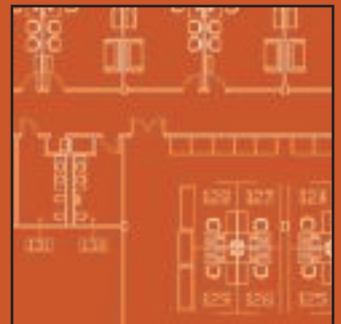
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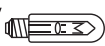
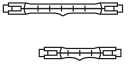
Lamp performances

LOW VOLTAGE TUNGSTEN LAMPS - 12V	Sylvania	ZVEI	ILCOS	Ø mm	Length mm	Watts Nominal	Cap/Base	Initial Lumens (IL)	Peak Intensity (Cd)	Beam_° (50%)	Av. Life (Hours)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
Quartz halogen Capsule-axial filament Clear Low Pressure UV stop 	Capsule LP	QT9-LP ax	HSG/LP	9	33	5	G4	45	-	-	1500	2900	100	1A
	Capsule LP	QT9-LP ax	HSG/LP	9	33	10	G4	100	-	-	1500	2900	100	1A
	Capsule LP	QT9-LP ax	HSG/LP	9	33	20	G4	260	-	-	1500	2900	100	1A
	-	QT9-LP ax	HSG/LP	12	44	20	GY6.35	300	-	-	3000	3000	100	1A
	Capsule LP	QT9-LP ax	HSG/LP	12	44	35	GY6.35	560	-	-	1500	2900	100	1A
	Capsule LP	QT9-LP ax	HSG/LP	12	44	50	GY6.35	950	-	-	1500	2900	100	1A
	-	QT9-LP ax	HSG/LP	12	44	75	GY6.35	1575	-	-	3000	3000	100	1A
	-	QT9-LP ax	HSG/LP	12	44	100	GY6.35	2200	-	-	3000	3000	100	1A
Quartz halogen Capsule-axial filament Clear UV stop  <i>Only use in fixtures with toughened front safety glass</i>	Capsule	QT12-Uvr ax	HSG	9	33	35	G4	650	-	-	3000	3000	100	1A
	Capsule	QT12-Uvr ax	HSG	12	44	75	GY6.35	1600	-	-	3000	3000	100	1A
	Capsule	QT12-Uvr ax	HSG	12	44	100	GY6.35	2300	-	-	3000	3000	100	1A
	-	-	HSG	16	82	175	GY6.35	4900	-	-	3000	2900	100	1A
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichroic reflector [MR8] Clear front 	-	QR-CBC25	HRGI	25	26	35	GZ4	-	1400	26	2000	3050	100	1A
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichroic reflector Axial filament Clear front Low Pressure UV stop  	-	QR-CBC35	HRGI	35.3	37	10	GU4	-	300	38	2000	3000	100	1A
	Superia 35	QR-CBC35	HRGI	35.3	42	20	GZ4/GU4	320	4500	10	4000	3100	100	1A
	Superia 35	QR-CBC35	HRGI	35.3	42	20	GZ4/GU4	320	700	38	4000	3100	100	1A
	Superia 35	QR-CBC35	HRGI	35.3	42	35	GZ4/GU4	630	7200	10	4000	3100	100	1A
	Superia 35	QR-CBC35	HRGI	35.3	42	35	GZ4/GU4	630	1350	38	4000	3100	100	1A
	Superia 50	QR-CBC51	HRGI	51	45	20	GX/GU5.3	320	4000	10	5000	2925	100	1A
	Superia 50	QR-CBC51	HRGI	51	45	20	GX/GU5.3	320	790	38	5000	2925	100	1A
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Superia 50	QR-CBC51	HRGI	51	45	35	GX/GU5.3	630	7700	10	5000	3000	100	1A
	Superia 50	QR-CBC51	HRGI	51	45	35	GX/GU5.3	630	1450	38	5000	3000	100	1A
	Superia 50	QR-CBC51	HRGI	51	45	50	GX/GU5.3	1000	11500	10	5000	3500	100	1A
	Superia 50	QR-CBC51	HRGI	51	45	50	GX/GU5.3	1000	3600	24	5000	3500	100	1A
	Superia 50	QR-CBC51	HRGI	51	45	50	GX/GU5.3	1000	2250	38	5000	3500	100	1A
	Superia 50	QR-CBC51	HRGI	51	45	50	GX/GU5.3	1000	1000	60	5000	3500	100	1A
	-	QR-CBC51	HRGI	51	49	75	GX/GU5.3	-	13000	12	3500	3000	100	1A
	-	QR-CBC51	HRGI	51	49	75	GX/GU5.3	-	4800	24	3500	3000	100	1A
	-	QR-CBC51	HRGI	51	49	75	GX/GU5.3	-	2700	36	3500	3000	100	1A
	-	QR-CBC51	HRGI	51	49	75	GX/GU5.3	-	1220	60	3500	3000	100	1A
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quartz capsule & aluminium reflector Axial filament Clear front Low Pressure UV stop 	Coolfit 50	QR-C51	HAGI	51	49	20	GX/GU5.3	320	660	38	5000	3000	100	1A
	Coolfit 50	QR-C51	HAGI	51	49	35	GX/GU5.3	630	1200	38	5000	3000	100	1A
	Coolfit 50	QR-C51	HAGI	51	49	50	GX/GU5.3	1000	1950	38	5000	3000	100	1A
	Coolfit 50	QR-C51	HAGI	51	49	50	GX/GU5.3	1000	900	60	5000	3000	100	1A

Note: Permanently dimmed halogen lamps shortens lamp life.

Dimmed halogen lamps should be run-up to full power at regular intervals to maintain optimum life.

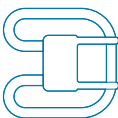
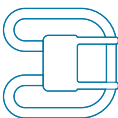
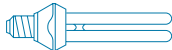
**MAINS VOLTAGE
TUNGSTEN HALOGEN LAMPS**

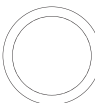
	Sylvania	ZVEI	ILCOS	Ø mm	Length mm	Watts Nominal	Cap/Base	Initial Lumens (IL)	Peak Intensity (Cd)	Beam_° (50%)	Av. Life (Hours)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
Quartz halogen Clear 230V only (UV stop) 	DLX-T	QT32	HEGT/C	33	103	60	E27	840	-	-	2000	2800	100	1A
	DLX-T	QT32	HEGT/C	33	103	100	E27	1600	-	-	2000	2900	100	1A
	DLX-T	QT32	HEGT/C	33	103	150	E27	2550	-	-	2000	2900	100	1A
Quartz halogen Satin 230V only (UV stop) 	DLX-T	QT32	HEGT/W	33	103	75	E27	780	-	-	2000	2800	100	1A
	DLX-T	QT32	HEGT/W	33	103	100	E27	1525	-	-	2000	2900	100	1A
	DLX-T	QT32	HEGT/W	33	103	150	E27	2450	-	-	2000	2900	100	1A
Quartz halogen Double ended tube 	K14	QT-DE	HDF	10	78.3	100	R7s	1600	-	-	2000	2900	100	1A
	K12	QT-DE	HDF	10	78.3	150	R7s	2600	-	-	2000	2900	100	1A
	K11	QT-DE	HDF	8	118.6	200	R7s	3000	-	-	2000	2880	100	1A
	K9	QT-DE	HDF	8	118.6	300	R7s	4800	-	-	2000	2900	100	1A
	K11	QT-DE	HDF	8	118.6	500	R7s	9250	-	-	2000	2900	100	1A
	K3	QT-DE	HDF	12	189.1	750	R7s	15000	-	-	2000	2900	100	1A
	K4	QT-DE	HDF	12	189.1	1000	R7s	22000	-	-	2000	2900	100	1A
	K5	QT-DE	HDF	12	254.1	1500	R7s	33000	-	-	2000	2900	100	1A
	K6	QT-DE	HDF	12	331	2000	Fa4	44000	-	-	2000	2900	100	1A
Halogen PAR16 Clear Low Pressure (UV stop) 	Hi-Spot ES 50	QPAR16	HAGS PAR	50.7	55	35	GU10	315	800	25	2500	2700	100	1A
	Hi-Spot ES 50	QPAR16	HAGS PAR	50.7	55	50	GU10	525	1300	25	2500	2700	100	1A
	Hi-Spot ES 50	QPAR16	HAGS PAR	50.7	55	50	GU10	525	500	50	2500	2700	100	1A
Halogen PAR16 Clear Low Pressure (UV stop) 	Hi-Spot 50	QPAR16	HEGPAR	50.2	77	40	E14	400	950	25	2000	2700	100	1A
Halogen PAR20 Clear Low Pressure (UV stop) 	Hi-Spot 63	QPAR20	HEGPAR	65	88	50	E27	630	3000	10	2500	2900	100	1A
	Hi-Spot 63	QPAR20	HEGPAR	65	88	50	E27	630	1000	25	2500	2900	100	1A
Halogen PAR25 Clear Low Pressure (UV stop) 	Hi-Spot 80	QPAR80	HEGPAR	81	108	50	E27	630	4000	10	2500	2900	100	1A
	Hi-Spot 80	QPAR80	HEGPAR	81	108	50	E27	630	1100	25	2500	2900	100	1A
	Hi-Spot 80	QPAR80	HEGPAR	81	108	75	E27	1050	5500	10	3000	2900	100	1A
	Hi-Spot 80	QPAR80	HEGPAR	81	108	75	E27	1050	1300	25	3000	2900	100	1A
Halogen PAR30 Clear Low Pressure (UV stop) 	Hi-Spot 95	QPAR30	HEGPAR	97	88	75	E27	1050	6900	10	2500	2900	100	1A
	Hi-Spot 95	QPAR30	HEGPAR	97	88	75	E27	1050	2200	30	2500	2900	100	1A
	Hi-Spot 95	QPAR30	HEGPAR	97	88	100	E27	1550	10000	10	3000	2900	100	1A
	Hi-Spot 95	QPAR30	HEGPAR	97	88	100	E27	1550	3500	30	3000	2900	100	1A
Halogen PAR35 Clear Low Pressure (UV stop) 	Hi-Spot ES 111	QPAR111	HAPAR	111	72	75	GU10	1090	3000	24	2000	2900	100	1A
Halogen PAR38 Clear Low Pressure (UV stop) 	Hi-Spot 120	QPAR38	HEGPAR	124	136	75	E27	1050	6900	10	3000	2900	100	1A
	Hi-Spot 120	QPAR38	HEGPAR	124	136	75	E27	1050	2200	30	3000	2900	100	1A
	Hi-Spot 120	QPAR38	HEGPAR	124	136	100	E27	1550	10000	10	3000	2900	100	1A
	Hi-Spot 120	QPAR38	HEGPAR	124	136	100	E27	1550	3500	30	3000	2900	100	1A

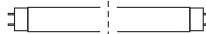
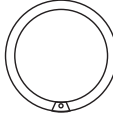
**MAINS VOLTAGE
TUNGSTEN LAMPS**

GLS Satin Coiled Coil 	GLS	A60	IA	60	104	25	E27	225	-	-	1000	2700	100	1A
	GLS	A60	IA	60	104	40	E27	410	-	-	1000	2700	100	1A
	GLS	A60	IA	60	104	60	E27	700	-	-	1000	2700	100	1A
	GLS	A60	IA	60	104	75	E27	915	-	-	1000	2700	100	1A
	GLS	A60	IA	60	104	100	E27	1330	-	-	1000	2700	100	1A
	GLS	-	IA	68	128	150	E27	2150	-	-	1000	2700	100	1A
	GLS	A60	IA	60	103	60	B22d	700	-	-	1000	2700	100	1A
	GLS	A60	IA	60	103	75	B22d	915	-	-	1000	2700	100	1A
	GLS	A60	IA	60	103	100	B22d	1330	-	-	1000	2700	100	1A
PAR 38 Clear Coiled Coil 	PAR 38	PAR 38	IPAR	124	136	60	E27	700	3400	12	2000	2700	100	1A
	PAR 38	PAR 38	IPAR	124	136	60	E27	700	1200	30	2000	2700	100	1A
	PAR 38	PAR 38	IPAR	124	136	80	E27	915	5400	12	2000	2700	100	1A
	PAR 38	PAR 38	IPAR	124	136	80	E27	915	1800	30	2000	2700	100	1A
	PAR 38	PAR 38	IPAR	124	136	120	E27	1338	9300	12	2000	2700	100	1A
	PAR 38	PAR 38	IPAR	124	136	120	E27	1338	3100	30	2000	2700	100	1A

Note: Permanently dimmed halogen lamps shortens lamp life.
Dimmed halogen lamps should be run-up to full power at regular intervals to maintain optimum life.

COMPACT FLUORESCENT LAMPS [CFL]			Sylvania	ZVEI	ILCOS	<< INDEX				Initial Lumens (lL)	Av. Life (Hours)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
						Length mm	Watts Nominal	Cap/Base						
CFL 2 limb, 2 pin [SS] 	Lynx-S	TC-S	FSD	88	5	G53	250	10000	2700/3000/3500/4000/6500	85	1B			
	Lynx-S	TC-S	FSD	115	7	G53	400	10000		85	1B			
	Lynx-S	TC-S	FSD	145	9	G53	600	10000		85	1B			
	Lynx-S	TC-S	FSD	213	11	G53	900	10000		85	1B			
CFL 2 limb, 4 pin [HF] 	Lynx-SE	TC-SEL	FSD	89	5	2G7	250	10000	2700/4000	85	1B			
	Lynx-SE	TC-SEL	FSD	116	7	2G7	400	10000		85	1B			
	Lynx-SE	TC-SEL	FSD	148	9	2G7	600	10000		85	1B			
	Lynx-SE	TC-SEL	FSD	216	11	2G7	900	10000		85	1B			
CFL 4 limb, 2 pin [SS]  CFL 4 limb, 4 pin [HF] 	Lynx-D	TC-D	FSQ	90	10	G24d-1	600	10000	2700/3000/3500/4000/6000/6500	85	1B			
	Lynx-D	TC-D	FSQ	118	13	G24d-1	900	10000		85	1B			
	Lynx-D	TC-D	FSQ	132	18	G24d-2	1200	10000		85	1B			
	Lynx-D	TC-D	FSQ	150	26	G24d-3	1800	10000		85	1B			
	Lynx-DE	TC-DEL	FSQ	90	10	G24q-1	600	10000	2700/3000/3500/4000	85	1B			
	Lynx-DE	TC-DEL	FSQ	118	13	G24q-1	900	10000		85	1B			
	Lynx-DE	TC-DEL	FSQ	132	18	G24q-2	1200	10000		85	1B			
	Lynx-DE	TC-DEL	FSQ	150	26	G24q-3	1800	10000		85	1B			
	CFL 6 limb, 2 pin [SS]  CFL 6 limb, 4 pin [HF] 	-	TC-T	FSM	113	13	GX24d-1	900	10000	2700/3000/3500/4000/6500	85	1B		
		Lynx-T	TC-T	FSM	100	18	GX24d-2	1200	10000		85	1B		
Lynx-T		TC-T	FSM	115	26	GX24d-3	1800	10000	85		1B			
-		TC-TEL	FSM	113	13	GX24d-1	900	10000	2700/3000/3500/4000	85	1B			
Lynx-TE		TC-TEL	FSM	100	18	GX24d-2	1200	10000		85	1B			
Lynx-TE		TC-TEL	FSM	115	26	GX24d-3	1800	10000		85	1B			
Lynx-TE		TC-TEL	FSM	131	32	GX24d-3	2400	10000		85	1B			
Lynx-TE		TC-TEL	FSM	152	42	GX24d-4	3200	10000	2700/3000/3500/4000/6000	85	1B			
CFL 2 limb, 4 pin [HF] 		Lynx-L	TC-L	FSL	225	18	2G11	1200	10000	2700/3000/3500/4000/6000	85	1B		
		Lynx-L	TC-L	FSL	320	24	2G11	1800	10000		85	1B		
	Lynx-L	TC-L	FSL	415	36	2G11	2900	10000	85		1B			
	Lynx-LE	TC-LE	FSL	535	40	2G11	3500	10000	2700/3000/3500/4000/6000	85	1B			
	Lynx-LE	TC-LE	FSL	535	55	2G11	4800	10000		85	1B			
CFL 4 limb, 4 pin [HF] 	Lynx-F	TC-F	FSM	122	18	2G10	1200	10000	2700/3000/4000	85	1B			
	Lynx-F	TC-F	FSM	165	24	2G10	1700	10000		85	1B			
	Lynx-F	TC-F	FSM	217	36	2G10	2800	10000		85	1B			
CFL [2D] 8 limb, 2 pin [SS]  CFL [2D] 8 limb, 4 pin [HF] 	-	TC-DD	FSF	-	16	GR8	1050	10000	2700/3000/6000	85	1B			
	-	TC-DD	FSF	-	16	GR10q	1050	10000		85	1B			
	-	TC-DD	FSF	-	28	GR10q	2250	10000		85	1B			
	-	TC-DD	FSF	-	38	GR10q	3000	10000		85	1B			
	-	TC-DD	FSF	-	55	GRY10q-3	3900	10000		85	1B			
CFL With integral HF gear 	Clear	Micro lynx F	TC-FSE	FBC	750	6	GX53	220	6000	2700/3000/4000	85	1B		
	Red	Micro lynx F	TC-FSE	FBC	750	6	GX53	170	6000					
	Blue	Micro lynx F	TC-FSE	FBC	750	6	GX53	310	6000					
	Green	Micro lynx F	TC-FSE	FBC	750	6	GX53	110	6000					
LED 	Micro lynx LED White satin			750	1,5	GX53	20	50000	6500 6500	70 70				
	Micro lynx LED White clear			750	1,5	GX53	40	50000						
	Micro lynx LED Red satin			750	1,5	GX53	12	50000						
	Micro lynx LED Red clear			750	1,5	GX53	20	50000						
	Micro lynx LED Green satin			750	1,5	GX53	20	50000						
	Micro lynx LED Green clear			750	1,5	GX53	32	50000						
	Micro lynx LED Blue satin			750	1,5	GX53	5	50000						
	Micro lynx LED Blue clear			750	1,5	GX53	8	50000						
	Micro lynx LED Yellow satin			750	1,5	GX53	15	50000						
	Micro lynx LED Yellow clear			750	1,5	GX53	24	50000						
CFL With integral HF gear 4 limb 	Mini-lynx	TC-DSE	FSD	140	7	E27	400	15000	2700/6000	85	1B			
	Mini-lynx	TC-DSE	FSD	140	11	E27	600	15000		85	1B			
	Mini-lynx	TC-DSE	FSD	169	15	E27	900	15000		85	1B			
	Mini-lynx	TC-DSE	FSD	180	20	E27	1250	15000		85	1B			
CFL With integral HF gear 6 limb 	Mini-lynx	TC-TSE	FSQ	140	15	E27	900	15000	2700/6000	85	1B			
	Mini-lynx	TC-TSE	FSQ	158	20	E27	1250	15000		85	1B			
	Mini-lynx	TC-TSE	FSQ	169	23	E27	1500	15000		85	1B			

T5 FLUORESCENT LAMPS	Sylvania	ZVEI	ILCOS	Length mm	Watts Nominal	Cap/ Base	Initial Lumens at 25°C	Max Lumens at 33...37°C	Av. Life (Hours)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
T5 HE (Ø16 mm) High Efficiency Triphosphor 	Luxline FHE	T16	FDH	549	14	G5	1230	1350	20000	2700/3000/4000	85	1B
	Luxline FHE	T16	FDH	549	14	G5	1140	1250	20000	6000	85	1B
	Luxline FHE	T16	FDH	849	21	G5	1910	2100	20000	2700/3000/4000	85	1B
	Luxline FHE	T16	FDH	849	21	G5	1775	1950	20000	6000	85	1B
	Luxline FHE	T16	FDH	1149	28	G5	2640	2900	20000	2700/3000/4000	85	1B
	Luxline FHE	T16	FDH	1149	28	G5	2460	1950	20000	6000	85	1B
	Luxline FHE	T16	FDH	1449	35	G5	3300	3650	20000	2700/3000/4000	85	1B
	Luxline FHE	T16	FDH	1449	35	G5	3095	3400	20000	6000	85	1B
T5 HO (Ø16 mm) High Output Triphosphor 	Luxline FHO	T16	FDH	549	24	G5	1700	2000	20000	2700/3000/4000	85	1B
	Luxline FHO	T16	FDH	549	24	G6	1570	1850	20000	6000	85	1B
	Luxline FHO	T16	FDH	849	39	G5	3220	3500	20000	2700/3000/4000	85	1B
	Luxline FHO	T16	FDH	849	39	G5	2990	3250	20000	6000	85	1B
	Luxline FHO	T16	FDH	1149	54	G5	4450	5000	20000	2700/3000/4000	85	1B
	Luxline FHO	T16	FDH	1149	54	G5	4050	4550	20000	6000	85	1B
	Luxline FHO	T16	FDH	1449	49	G5	4165	4900	20000	2700/3000/4000	85	1B
	Luxline FHO	T16	FDH	1449	49	G5	3950	4650	20000	6000	85	1B
	Luxline FHO	T16	FDH	1149	80	G5	6150	7000	20000	2700/3000/4000	85	1B
	Luxline FHO	T16	FDH	1149	80	G5	5700	6650	20000	6000	85	1B
T5 (Ø16 mm) Standard Halophosphor 	T5 standard	T16	FD	136	4	G5	140		10000	3000/3500	53	3
	T5 standard	T16	FD	136	4	G5	140		10000	4300	64	2B
	T5 standard	T16	FD	136	4	G5	115		10000	6500	76	2A
	T5 standard	T16	FD	212	6	G5	280		10000	3000/3500	53	3
	T5 standard	T16	FD	212	6	G5	280		10000	4300	64	2B
	T5 standard	T16	FD	212	6	G5	240		10000	6500	76	2A
	T5 standard	T16	FD	288	8	G5	400		10000	3000/3500	53	3
	T5 standard	T16	FD	288	8	G5	400		10000	4300	64	2B
	T5 standard	T16	FD	288	8	G5	340		10000	6500	76	2A
	T5 standard	T16	FD	517	13	G5	880	-	10000	3000/3500	53	3
	T5 standard	T16	FD	517	13	G5	880	-	10000	4300	64	2B
	T5 standard	T16	FD	517	13	G5	750	-	10000	6500	76	2A
T5 Circular (Ø16 mm) High Output Triphosphor 	-	T16-R	FSCH	230Ø	22	2GX13	1800		16000	2700/3000/4000/6000	85	1B
	-	T16-R	FSCH	305Ø	55	2GX14	4200		16000	2700/3000/4000/6000	85	1B

T8 FLUORESCENT LAMPS	Sylvania	ZVEI	ILCOS	Length mm	Watts Nominal	Cap/ Base	Initial Lumens (IL)	Av. Life (Hours)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
T8 HE (Ø26 mm) Triphosphor 	Luxline Plus	T26	FD	590	18	G13	1350	20000	2700/3000/3500/4000	85	1B
	Luxline Plus	T26	FD	590	18	G13	1300	20000	5000/6000	85	1B
	Luxline Plus	T26	FD	1200	36	G13	3350	20000	2700/3000/3500/4000	85	1B
	Luxline Plus	T26	FD	1200	36	G13	3250	20000	5000/6000	85	1B
	Luxline Plus	T26	FD	1500	58	G13	5200	20000	2700/3000/3500/4000	85	1B
	Luxline Plus	T26	FD	1500	58	G13	5000	20000	5000/6000	85	1B
	Luxline Plus	T26	FD	1764	70	G13	6050	20000	2700/3000/3500/4000	85	1B
	Luxline Plus	T26	FD	1764	70	G13	5700	20000	5000/6000	85	1B
T8 HO (Ø26 mm) Halophosphor 	Standard	T26	FD	590	18	G13	1150	14000	3000/3500	53	3
	Standard	T26	FD	590	18	G13	1100	14000	4000	76	2A
	Standard	T26	FD	590	18	G13	1150	14000	4300	64	2B
	Standard	T26	FD	590	18	G13	1050	14000	6500	75	2A
	Standard	T26	FD	1200	36	G13	2850	14000	3000/3500	53	3
	Standard	T26	FD	1200	36	G13	2600	14000	4000	76	2A
	Standard	T26	FD	1200	36	G13	2850	14000	4300	64	2B
	Standard	T26	FD	1200	36	G13	2500	14000	6500	75	2A
	Standard	T26	FD	1500	58	G13	4600	14000	3000/3500	53	3
	Standard	T26	FD	1500	58	G13	4100	14000	4000	76	2A
	Standard	T26	FD	1500	58	G13	4600	14000	4300	64	2B
	Standard	T26	FD	1500	58	G13	4000	14000	6500	75	2A
T8 Circular (Ø29-32 mm) Halophosphor 	Circular	T29-R	FSC	216Ø	22	G10q	1100	13000	3000/3500	53	3
	Circular	T29-R	FSC	216Ø	22	G10q	1000	13000	4000	76	2a
	Circular	T29-R	FSC	216Ø	22	G10q	1000	13000	6500	75	2a
	Circular	T32-R	FSC	305Ø	32	G10q	2000	13000	3000/3500	53	3
	Circular	T32-R	FSC	305Ø	32	G10q	1700	13000	4000	76	2a
	Circular	T32-R	FSC	305Ø	32	G10q	1700	13000	6500	75	2a
	Circular	T32-R	FSC	406Ø	40	G10q	2800	13000	3000/3500	53	3
	Circular	T32-R	FSC	406Ø	40	G10q	2300	13000	4000	76	2a
	Circular	T32-R	FSC	406Ø	40	G10q	2400	13000	6500	75	2a
	Circular	T32-R	FSC	406Ø	60	G10q	3650	13000	3000	53	3

<< INDEX														
HID Metal Halide	Sylvania	ZVEI	ILCOS	Ø mm	Length mm	Watts Nominal	Cap/Base	Initial Lumens (lL)	Peak Intensity (Cd)	Beam ° (50%)	Av. Life (Hours)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
Metal Halide Ceramic capsule 	-	HIT-TC-CE	MT	14	85	20	G8.5	1700	-	-	6000	3000	81	1B
	CMI-TC	HIT-TC-CE	MT	17	85	35	G8.5	3400	-	-	9000	3000	84	1B
	CMI-TC	HIT-TC-CE	MT	17	85	70	G8.5	6200	-	-	9000	3000	84	1B
Metal Halide Ceramic capsule (UV stop) 	CMI-T	HIT-CE	MT	20	90	35	G12	3400	-	-	9000	3000	83	1B
	CMI-T	HIT-CE	MT	20	90	70	G12	6200	-	-	15000	3000	83	1B
	CMI-T	HIT-CE	MT	20	90	70	G12	6000	-	-	15000	4200	88	1A
	CMI-T	HIT-CE	MT	20	100	150	G12	13500	-	-	12000	3000	83	1B
	CMI-T	HIT-CE	MT	20	100	150	G12	13000	-	-	12000	4200	88	1A
Metal Halide Ceramic Tubular d/e (UV stop) 	CMI-TD	HIT-DE-CE	MD	22	117.6	70	Rx7s	6200	-	-	15000	3000	85	1B
	CMI-TD	HIT-DE-CE	MD	22	117.6	70	Rx7s	6200	-	-	15000	4200	90	1A
	CMI-TD	HIT-DE-CE	MD	25	135.4	150	Rx7s-24	13500	-	-	15000	3000	85	1B
	CMI-TD	HIT-DE-CE	MD	25	135.4	150	Rx7s-24	12500	-	-	15000	4200	90	1A
Metal Halide Reflector 	Britespot ES111			111	75	35	GX10		40000	8	6000	3000	90	1A
	Britespot ES111			111	75	35	GX10		10000	24	6000	3000	90	1A
	Britespot ES111			111	75	35	GX10		3500	45	6000	3000	90	1A
Metal Halide d/e 	Britespot DE			22	117.6	75	RX7s	6000	na	na	9000	3000		85
	Britespot DE			22	117.6	75	RX7s	6000	na	na	9000	4200		85
	Britespot DE			25	135.4	150	RX7s-24	12500	na	na	9000	3000		85
	Britespot DE			25	135.4	150	RX7s-24	12500	na	na	9000	4200		85
Metal Halide reflector 	Britespot ESS0			51	62.5	35	GX10		4000	38	6000	3000		1A
	Britespot ESS0			51	62.5	35	GX10		2000	60	6000	3000		1A
	Britespot ESS0			51	62.5	35	GX10		7000	24	6000	3000		1A
Metal Halide dichroic reflector - univ. Position 	Britespot ESD50			51	62.5	35	GX10		7000	24	6000	3000	90	1A
	Britespot ESD50			51	62.5	35	GX10		4000	38	6000	3000	90	1A
	Britespot ESD50			51	62.5	35	GX10		2000	60	6000	3000	90	1A
	Britespot ESD50 Blue			51	62.5	35	GX10		na	12	6000			na
	Britespot ESD50 Green			51	62.5	35	GX10		na	12	6000			na
	Britespot ESD50 Red			51	62.5	35	GX10		na	12	6000			na
	Britespot ESD50 Yellow			51	62.5	35	GX10		na	12	6000			na
Metal Halide Quartz capsule (UV stop) 	HSI-T	HIT-Uvr	MT	26	76	70	G12	5200			6000	3000		1B
	HSI-T	HIT-Uvr	MT	26	76	150	G12	12000			6000	3000		1B
	HSI-T	HIT-Uvr	MT	26	76	70	G12	5200			6000	4200		1B
	HSI-T	HIT-Uvr	MT	26	76	150	G12	12500			6000	4200		1B
Metal Halide Quartz (UV stop) 	HSI-T			48	225	250	E40	20000			14500	5300		1A
	HSI-T			63	285	425	E40	32000			14500	6100		1A
	HSI-T			66	382	965	E40	81000			7000	4000		2B
	HSI-T			102	430	2000	E40	200000			7000	4000		2B
	HSI-T			102	430	2000	E40	200000			7000	4000		2B
Metal Halide Quartz tubular d/e (UV stop)  	HSI-TD	HIT-DE	MD	22	117.6	70	Rx7s	5500			9000	3000		1B
	HSI-TD	HIT-DE	MD	22	117.6	70	Rx7s	5800			9000	4200		1B
	HSI-TD	HIT-DE	MD	25	135.4	150	Rx7s-24	12500			9000	3000		1B
	HSI-TD	HIT-DE	MD	25	135.4	150	Rx7s-24	12500			9000	4200		1B
	HSI-TD	HIT-DE	MD	22	117.6	70	Rx7s	5400			9000	5600		1B
	HSI-TD	HIT-DE	MD	25	135.4	150	Rx7s-24	11000			9000	5200		1B
	HSI-TD	HIT-DE-Uvr	MD	27.5	161.6	250	Fc2	20000			9000	3200		1B
	HSI-TD	HIT-DE-Uvr	MD	27.5	161.6	250	Fc2	20000			9000	4200		1B
	HSI-TD	HIT-DE-Uvr	MD	27.5	161.6	250	Fc2	18000			9000	5200		1A
Metal Halide Quartz compact double ended	HSI-TD			36	187	1950	cable	200000			3000	5600		1A
Metal Halide Quartz elliptical s/e Clear  CL Compatible with HP sodium gear  CO (UV stop)	HSI-SX	HIE	MT	90	227	265	E40	23500			14500	4100		2B
	HSI-SX	HIE	MT	120	290	425	E40	42000			15000	4300		2B
	HSI-SX	HIE	MT	90	227	265	E40	21000			14500	4500		2B
	HSI-SX	HIE	MT	90	227	265	E40	22300			14500	3800		2A
	HSI-SX	HIE	MT	120	290	425	E40	40000			15000	4200		2A
	HSI-SX	HIE	MT	90	227	265	E40	20000			14500	4200		2A
Metal Halide Quartz tubular s/e Clear  Compatible with HP sodium gear (UV stop)	HSI-TSX	HIT		48	260	265	E40	21000			14500	4200		2B
	HSI-TSX	HIT		63	270	425	E40	40000						2B

HID Metal Halide	Sylvania	ZVEI	ILCOS	Ø mm	Length mm	Watts Nominal	Cap/Base	Initial Lumens (IL)	Peak Intensity (Cd)	Beam ° (50%)	Av. Life (Hours)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)
Metal Halide Quartz tubular s/e Clear Compatible with HP sodium gear  <u>UV stop</u>	HSI-THX HSI-THX	HIT HIT	MT MT	48 63	257 270	250 400	E40 E40	20000 36000			14500 14500	4500 4200		2B 2B
Metal Halide Quartz elliptical s/e Clear compatible with HP sodium gear  <u>UV stop</u>	HSI-HX HSI-HX	HIE HIE	MT MT	90 120	227 290	250 400	E40 E40	23000 37000			14500 14500	4500 4500		2B 2B
Metal Halide Quartz elliptical s/e Coated Compatible with HP mercury control gear external ignitor required  <u>UV stop</u>	HSI-HX HSI-HX	HIE HIE	MT MT	90 120	227 290	250 400	E40 E40	21000 35200			14500 14500	3800 3800		2A 2A
Metal Halide Quartz elliptical s/e Coated Compatible with HP mercury control gear with internal ignitor  <u>UV stop</u>	HSI-HX HSI-HX	HIE HIE	MT MT	90 120	227 290	250 400	E40 E40	21000 35200			14500 14500	3800 3800		2A 2A
Metal Halide Quartz elliptical s/e Coated  <u>UV stop</u>	HSI-MP HSI-MP HSI-MP HSI-MP HSI-MP HSI-MP HSI-MP	HIE-P HIE-P HIE-P HIE-P HIE-P HIE-P HIE-P	ME ME ME ME ME ME ME	54 54 54 54 54 54 54	142 142 142 142 142 142 142	70 70 100 100 150 150 150	E27 E27 E27 E27 E27 E27 E27	5200 5500 7900 8100 12500 12500 12500			15000 15000 15000 15000 15000 15000 15000	2900 3800 2900 3800 2900 3800 3800	70 75 70 75 70 75 75	2A 2A 2A 2A 2A 2A 2A
HID Sodium														
High Pressure Sodium elliptical 	SHP-S SHP-S SHP-S SHP-S SHP-S SHP-S SHP-S SHP-S			72 72 72 78 91 91 122	165 165 165 186 227 227 292	35 50 70 100 150 255 410	E27 E27 E27 E40 E40 E40 E40	1800 3600 6000 9500 16000 30000 54000	na na na na na na na	na na na na na na na	14000 23000 23000 23000 23000 30000 30000	2050 2050 2050 2050 2050 2050 2050		4 4 4 4 4 4 4
High Pressure Sodium Ceramic tubular s/e [SON-T mercury free] 	SHP-TS SHP-TS SHP-TS SHP-TS SHP-TS SHP-TS SHP-TS SHP-TS Grolux	HST-MF HST-MF HST-MF HST-MF HST-MF HST-MF HST-MF	ST ST ST ST ST ST ST	39 39 48 48 48 48 48	156 156 211 211 260 292 292	50 70 100 150 250 400 600	E27 E27 E40 E40 E40 E40 E40	4200 6800 10000 17000 33000 55500 90000	na na na na na na na	na na na na na na na	23000 23000 23000 23000 30000 30000 30000	2050 2050 2050 2050 2050 2050 2050		4 4 4 4 4 4 4
High Pressure Sodium Ceramic tubular 	SHP-TS Grolux SHP-TS Grolux SHP-TS Grolux			48 48 48	292 292 292	425 615 620	E40 E40 E40	58000 90000 88000	na na na	na na na	24000 24000 24000	2050 2050 2050		4 4 4
High Pressure Sodium Mercury free elliptical 	SHP-S SHP-S SHP-S SHP-S SHP-S			72 78 91 91 122	165 186 227 227 292	70 100 153 258 408	E27 E40 E40 E40 E40	5000 8000 15000 27500 50500	na na na na na	na na na na na	16500 24000 24000 24000 24000	2200 2200 2200 2200 2200		4 4 4 4 4
High Pressure Sodium Mercury free tubular 	SHP-TS SHP-TS SHP-TS SHP-TS SHP-TS			39 48 48 48 48	156 211 211 260 292	70 100 153 258 408	E27 E40 E40 E40 E40	5300 9000 16000 29000 53000	na na na na na	na na na na na	16500 24000 24000 24000 24000	2200 2200 2200 2200 2200		4 4 4 4 4
High Pressure Sodium Elliptical - Twin Arc 	SHP-S TwinArc			72 72 72 78 91 91 122	165 165 165 186 227 227 292	35 50 70 100 150 255 410	E27 E27 E27 E40 E40 E40 E40	1800 3600 6000 9500 15500 30000 52500	na na na na na na na	na na na na na na na	25000 40000 40000 40000 40000 55000 55000	2050 2050 2050 2050 2050 2050 2050		4 4 4 4 4 4 4

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INDEX																	
HID Sodium	Sylvania	ZVEI	ILCOS	Ø mm	Length mm	Watts Nominal	Cap/Base	Initial Lumens (lL)	Peak Intensity (Cd)	Beam_° (50%)	Av. Life (Hours)	Colour Temp. (°K)	Colour Rendering (Ra)	Colour Rendering (Group)			
High Pressure Sodium Tubular - Twin Arc 	SHP-S TwinArc			39	156	50	E27	4000	na	na	40000	2050		4			
				39	156	70	E27	6500	na	na	40000	2050		4			
				48	211	100	E40	10000	na	na	40000	2050		4			
				48	211	150	E40	17000	na	na	40000	2050		4			
				48	260	255	E40	32000	na	na	55000	2050		4			
				48	292	400	E40	55000	na	na	55000	2050		4			
	High Pressure Sodium Tubular - SBY 	SHP-T SBY			68	400	960	E40	130000	na	na	20000	2050		4		
		SHP-T SBY			48	260	250	E40	28000	na	na	44000	2050		4		
		SHP-T SBY			48	292	392	E40	48000	na	na	44000	2050		4		
		SHP-T SBY			48	211	150	E40	14500	na	na	26000	2050		4		
High Pressure Sodium Ceramic tubular s/e (SON-T mercury free) 	SHP	HSE-I HSE-I HSE	SE SE SE	72	165	50	E27	3300	na	na	15500	2050		4			
	SHP			72	165	70	E27	5800	na	na	15500	2050		4			
	-			72	165	70	E27	5800	na	na	15500	2050		4			
	SHP			72	165	70	E27	5800	na	na	26000	2050		4			
	SHP			78	178	100	E27	8500	na	na	15500	2050		4			
	SHP			91	227	150	E40	14000	na	na	15500	2050		4			
	SHP			91	227	250	E40	26000	na	na	25000	2050		4			
	SHP			122	292	400	E40	47000	na	na	25000	2050		4			
	High Pressure Sodium Ceramic tubular s/e (SON-T) 			SHP-T	HST	ST	39	156	50	E27	3500	na	na	15500	2050		4
				SHP-T			39	156	70	E27	6000	na	na	15500	2050		4
SHP-T		48	211	150			E40	14500	na	na	15500	2050		4			
SHP-T		48	260	250			E40	28000	na	na	25000	2050		4			
SHP-T		48	292	400			E40	48000	na	na	25000	2050		4			
SHP-T		68	400	960			E40	130000	na	na	15000	2050		4			
High Pressure Sodium d/e 		SHP-TD					22	117,6	70	RX7s	6800	na	na	8000	1900		4
	SHP-TD			25	135,4	150	RX7s-24	15000	na	na	8000	1900		4			
High Pressure Sodium Elliptical self-starting 	SHP + internal ignitor			72	165	50	E27	3300	na	na	15500	2050		4			
				72	165	70	E27	5800	na	na	15500	2050		4			
				72	165	70	E27	6000	na	na	15500	2050		4			
High Pressure Sodium Elliptical - Plug in 	SHX-Plug in SHX-Plug in SHX-Plug in			91	228	210	E40	18000	na	na	25000	2000		4			
				122	292	350	E40	34500	na	na	25000	2000		4			
				76	178	110	E27	8000	na	na	15500	2000		4			
High Pressure Sodium Elliptical - Direct retrofit 	SPX EcoArc SPX EcoArc SPX EcoArc			76	176	108	E27	8800	na	na	24000	1900		4			
				91	228	205	E40	19000	na	na	24000	1800		4			
				122	292	330	E40	34000	na	na	24000	1900		4			
HID Mercury																	
High Pressure Mercury Quartz elliptical Comfort s/e [MBF/U Comfort/ Super de luxe] 	HSL-SC	HME	QE	56	130	50	E27	2000			29000	3400		3			
	HSL-SC			71	166	80	E27	4000			29000	3400		3			
	HSL-SC			76	178	125	E27	6500			29000	3400		3			
	HSL-SC			91	228	250	E40	14000			29000	3400		3			
	HSL-SC			122	292	400	E40	24000			29000	3400		3			
	High Pressure Mercury Quartz elliptical s/e HSL-BW 			HSL-BW	HME	QE	56	130	50	E27	1800			29000	4000		3
HSL-BW		71	166	80			E27	3800			29000	4000		3			
HSL-BW		76	178	125			E27	6300			29000	4000		3			
HSL-BW		HME	QE	76	186	125	E40	6300			29000	4000		3			
				91	228	250	E40	13000			29000	4000		3			
				122	292	400	E40	22000			29000	3800		3			
				152	357	700	E40	40000			21500	4000		3			
				167	411	1000	E40	58000			21500	4000		3			
				High Pressure Mercury Quartz elliptical self-ballasted s/e HSB-BW    	HSB-BW	HME-SB	QB	76	178	160	E27	3100			16000	3500	
HSB-BW	91	228	250		E40			5600			16000	3500		2B			
HSB-BW	91	233	250		E27			5600			16000	3500		2B			
HSB-BW	122	292	500		E40			14000			16000	3500		2B			
HSB-BW	HME-SB	QB	76		178	160	E27	3100			16000	3500		2B			
			76		178	160	B22d	3100			16000	3500		2B			
			91		228	250	E40	5600			16000	3500		2B			
			122		292	500	E40	14000			16000	3500		2B			

Luminaire standards

1. Directive 2002/91/EC on the energy performance of buildings

This European directive asks to Member States to apply a methodology, at national or regional level, of calculation of the energy performance of buildings.

Each Member State shall take the necessary measures to ensure that minimum energy performance requirements for buildings are set.

To judge the energy performance of lighting installation (mainly the non-residential sector) and reduce energy consumption, we have to know installed output (in W/m²) and annual consumption (in kWh/m²).

2. Example of RT 2005 French ministerial order draft relative to thermal characteristics of buildings.

Nominal referential lighting power depends of use of zone or offices. It is given in table below, in W/m² of working surface or in W/m² of working surface for 100 lux illuminance maintained.

Use of zone or offices	Referential lighting power
Shops and offices Health buildings Catering and restoration Education Show and conference rooms Other offices	12 W/m ²
Sports buildings Storage Transport	10 W/m ²
Office with maintained illuminance > 600 lx	2.5 W/m ² by 100 lx with a superior limit of 25W/m ²

The energy consumption of a building for lighting is expressed in kWh/m².

The annual energy consumption is a function of offices occupation duration and lighting device management:

- Switch of office exits
- Temporised switch off device and dimming device for automation
- Remote control
- Centralised device management
- Day lighting

3. Data to provide

To calculate lighting power, it is necessary to take into consideration total power of luminaire, depending of number and type of lamps and EEI classification of ballasts. These powers appear in our catalogues: refer to examples below.

The installed power (in W/m²) can be automatically calculated by DIALUX software.

Lamps		EEI ballasts Class				
Q	Type	A1	A2	A3	B1	B2
3	FHE 14W	28W	51W			
4		38W	68W			
1	FHE 28W	17W	32W			
2		34W	64W			
3		51W	96W			
1	FHE 35W	21W	39W			
2		42W	78W			
1	F 18W		19W	21W	24W	26W
2			36W	38W	41W	43W
3			55W	59W	65W	69W
4			72W	76W	82W	86W
1	F 36W		36W	38W	41W	43W
2			72W	76W	82W	86W
1	F 58W		55W	59W	64W	67W
2			110W	118W	128W	134W

Data of energy consumption are depending of luminaires, use of offices and lighting management. They allow to check the conformity to minimum energy performance requirements of buildings, these requirements depending of each Member States of European Community.

Luminaire standards

Compliance to standards



Quality – Registered Firm

All lighting fixtures produced by Sylvania are designed, manufactured and tested under a quality assurance system in accordance with EN ISO 9001: 2000, and are designed to comply with EN 60.598. Also, the company employs an environmental management system that complies with EN ISO 14001: 1996.



Mark of conformity

The European Norms Electrical Certification (ENEC) has been adopted as a common mark of conformity with European Standards. A mark issued by any single national approbation bodies implies compliance with all national bodies. The ENEC mark now replaces the national test house symbol, and is appended by a number indicating from which test house the approbation originated.



CE marking

CE marking indicates compliance with the requirements of:

1. Low voltage directive for electrical safety (73/23/EEC as amended by 93/68/EEC).
2. EMC directive for electro magnetic compatibility (89/336/EEC as amended by 92/31/EEC).

Voltage

Fittings and transformers are supplied primarily for operation on 230V - 50 Hz. For alternative electrical specifications contact Technical Support Department or Sylvania International Department.

Electrical protection

EN 60.598



Class I – An earthed electrical requirements i.e. functional insulation in all parts and earth termination.



Class II – A double insulated electrical requirements i.e. complete insulation in all parts without earth termination. In the event of an electrical fault, no dangerous voltage can reach touchable metal parts.



Class III – A luminaire in which protection against electric shock relies on supply at safety extra-low voltage (SELV) and in which voltages higher than those of SELV are not generated.

Inflammability of surface protection

EN 60.598



F mark – fittings comply with installation requirements for mounting on normally flammable surfaces.

EMC

EN 55.015, EN 61000-3-2 & EN 61.547

Fittings comply with radio interference suppression and electromagnetic compatibility (EMC) regulations.

luminaires with limited surface temperatures

EN 60.598-2-24



Fittings foreseen for a use which requires to limit the temperature of their outside surfaces, because of the risk of accumulation of combustible dusts on the fitting, but where the danger of explosion in the atmosphere does not exist.

Classification of places where explosive atmospheres may occur. European Directive 1999/92/EC

Preliminary note

The following system of classification must be applied to places where precautions in accordance with articles 3, 4, 7 and 8 are taken.

1. Places where explosive atmospheres may occur

A place in which an explosive atmosphere may occur in such quantities as to require special precautions to protect the health and safety of the workers concerned is deemed to be hazardous within the meaning of this Directive.

A place in which an explosive atmosphere is not expected to occur in such quantities as to require special precautions is deemed to be non-hazardous within the meaning of this Directive.

Flammable and/or combustible substance are considered as materials which may form an explosive atmosphere unless an investigation of their properties has shown that in mixtures with air they are incapable of independently propagating an explosion.

2. Classification of hazardous places

Hazardous places are classified in terms of zones on the basis of the frequency and duration of the occurrence of an explosive atmosphere.

The extent of the measures to be taken in accordance with Annex II, Part A, is determined by this classification.

Zone 0:

A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist is present continuously or of long periods or frequently.

Zone 1:

A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist likely to occur in normal operation occasionally.

Zone 2:

A place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Zone 20:

A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is present continuously, of for long periods or frequently.

Zone 21:

A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is likely to occur in normal operation occasionally.

Zone 22:

A place in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Notes:

1. Layers, deposits and heaps of combustible dust must be considered as any other source which can form an explosive atmosphere.
2. "Normal operation" means the situation when installations are used within their design parameters.

T CLASS and TA

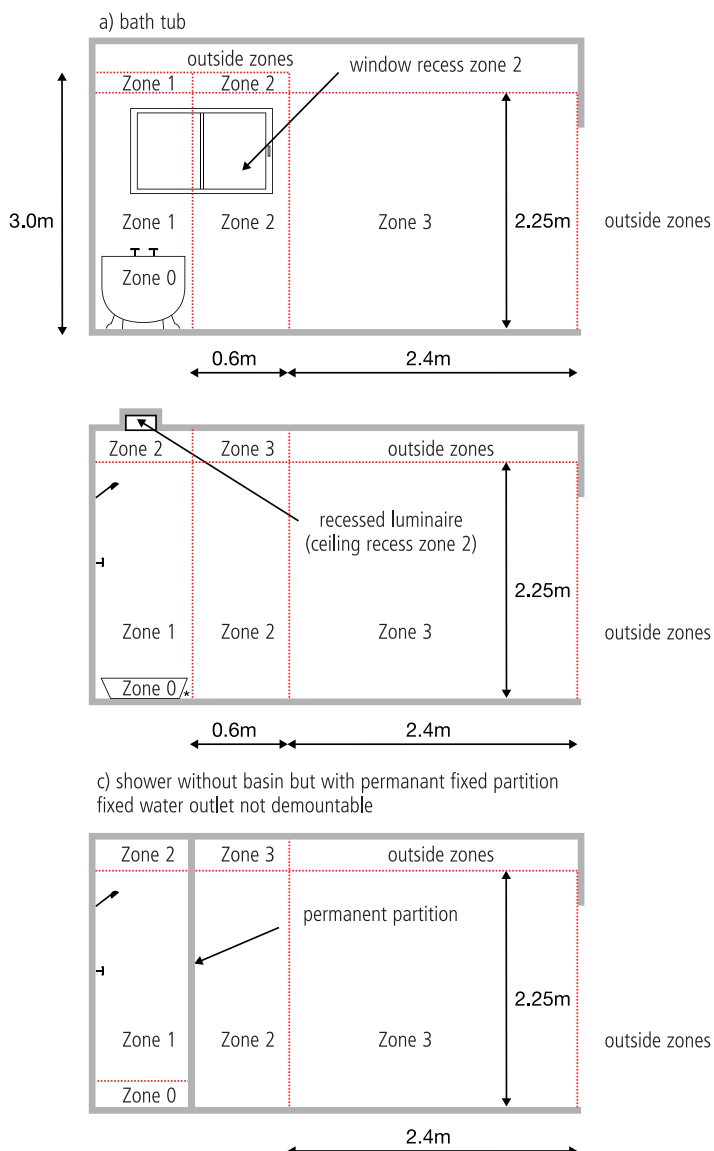
The temperature assigned to a luminaire by the manufacturer to indicate the highest sustained temperature in which the luminaire may be operated under normal conditions. Without any other information on product pages the ambience temperature is 25° C.

Luminaire standards

Application of IP ratings within damp locations

Guidance is now provided by the above standard to the selection of luminaires within locations containing baths, showers and cabinets that contain a shower /and or bath; along with the surrounding areas. Where these locations are for medical treatment, or are for disabled persons, other special requirements may be required. Amendment 3 has introduced zones within the described locations and recommends the minimum IP protection required to the ingress of moisture.

Zone designation	Equipment permitted	IP requirements
0	No switchgear	IPX7
1	Luminaires	IPX4 IPX5 if water jets are likely to be used
2	Luminaires	IPX4 IPX5 if water jets are likely to be used
3	No limitation on fixed equipment	IPX1 IPX5 if water jets are likely to be used



Note. drawings are not to scale. *Zone 1 if the space is accessible without the use of a tool. Spaces under the bath, accessible only with the use of a tool are outside the zones.

First identification number - Protection against the ingress of solids

Symbol	Number	Measure of protection	Test
	IP2X	Against foreign bodies $\geq 12.5\text{mm } \varnothing$	Finger test
	IP3X	Against foreign bodies $\geq 2.5\text{mm } \varnothing$	Steel wire 2.5mm $\varnothing$
	IP4X	Against foreign bodies $\geq 1.0\text{mm } \varnothing$	Steel wire 1.0mm $\varnothing$
	IP5X	Against harmful dust deposits (dust proof)	Talcum powder
	IP6X	Against any entry of dust (dust tight)	Talcum powder

Second identification number - Protection against the ingress of liquids

Symbol	Number	Measure of protection	Test
	IPX1	Against falling drops of water	Water falling vertically
	IPX2	Against falling drops of water	Water falling up to 15° from vertical
	IPX3	Against spraying water (rain proof)	Water sprayed at 60° from vertical
	IPX4	Against splashed water (splash proof)	Water from all directions
	IPX5	Against jets of water (jet proof)	Water from all directions projected by a nozzle
	IPX6	Against heavy seas or powerful water jets	Water from all directions projected by a nozzle
	IPX7	Against temporary immersion effects, and not for continuous underwater application	Immersion in water = 1m for 30 minutes
	IPX8	Against continuous submersion (pressure water-tight)	Immersion in water > 1m for 30 minutes – max. depth tested indicated after symbol

Guide to symbols

National Safety Marks



European Norms Electrical Certification



TUV (Germany)



B.S.I Kite Mark (U.K.)



KEMA (Holland)



NEMKO (Norway)



CEBEC (Belgium)



DEMKO (Denmark)



RER (Iceland)



SEMKO (Sweden)



UTE (France)



SETI (Finland)



IMQ (Italy)



SEV (Switzerland)



NF Luminaires



VDE (Germany)



Passes the 650°C glow wire test in accordance with EN 60695-2-1.



Passes the 750°C glow wire test in accordance with EN 60695-2-1.



Passes the 850°C glow wire test in accordance with EN 60695-2-1.



Passes the 960°C glow wire test in accordance with EN 60695-2-1.



Ingress protection.



Impact protection.



Luminaires for rough service.



Wind exposed surface.

Degree of protection

EN 60.529

The resistive performance of fittings to solids and liquids is indicated by the IP (International Protection) prefix followed by two numbers. The first number indicates the measure of protection against the ingress of solids. The second number indicates the measure of protection against the ingress of liquids.

LUMINAIRE CLASSIFICATIONS

Degree of impact protection

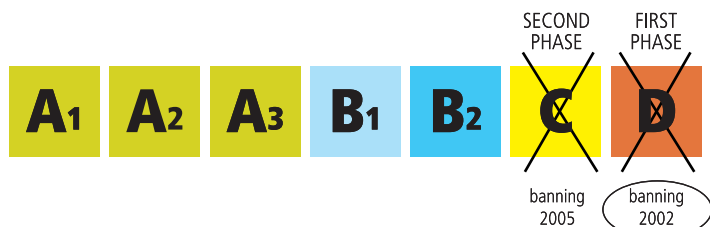
EN 50.102

The resistive performance of fittings to external mechanical impacts the IK (International Mechanical Protection) prefix followed by two numbers.

IK Number	Measure of protection – impact energy (joules)	Test	Hight of fall
00	No protection to this standard	-	
01	0.14	0.25 kg	56 mm
02	0.20	0.25 kg	80 mm
03	0.35	0.25 kg	140 mm
04	0.50	0.25 kg	200 mm
05	0.70	0.25 kg	280 mm
06	1.00	0.25 kg	400 mm
07	2.00	0.50 kg	400 mm
08	5.00	1.70 kg	300 mm
09	10.00	5.00 kg	200 mm
10	20.00	5.00 kg	400 mm

CELMA

CLASSIFICATION OF BALLAST-LAMP CIRCUIT FOR ENERGY EFFICIENCY IN LIGHTING



WITH DEFINED LIMITING VALUE FOR EACH CLASS

According to the CELMA (the European Federation of the National Associations of the manufactures of luminaires, control gears and lampholders) classification scheme the following classes and typical ballast types exist:

- **Class D:** magnetic ballasts with very high losses.
- **Class C:** magnetic ballasts with moderate losses.
- **Class B2:** magnetic ballasts with low losses.
- **Class B1:** magnetic ballasts with very low losses.
- **Class A3:** electronic ballasts.
- **Class A2:** electronic ballasts with reduced losses.
- **Class A1:** dimmable electronic ballasts.

Dimmable ballasts are classified A1 if they fulfil the following requirements:

- at 100% light output setting the ballast fulfils at least the demands belonging to A3;
- at 25% light output setting the total input power is equal to or less than 50% of the power at the 100% light output setting;
- the ballast must be able to reduce the light output to 10% or less of the maximum light output.

A conventional magnetic ballast, conforming to CELMA energy efficiency scheme class C, limits a system total input power to 70W when operating a 58W fluorescent lamp. With magnetic ballasts conforming to CELMA energy efficiency scheme class D, those losses are even higher, so the total power consumption is also greater.

Magnetic ballasts conforming to CELMA energy efficiency scheme classes B1 and B2 have a thicker copper wire and an iron core subject to less power dissipation. This development reduces internal losses. A class B2 ballast operating a 58W fluorescent lamp, has a total input power of 67W, which is 3W less than that of a Class C ballast lamp circuit.

Electronic ballasts (conforming to CELMA energy efficiency scheme classes A1, A2 and A3) are major power savers. They even reduce the power consumption of ballast lamp circuits to less than the rated power of the lamp at 50Hz. This is caused by the increased lamp efficiency at high frequencies (>20kHz), leading to about 10% less lamp power and a decrease of the ballast losses.

Emergency standards

Emergency lighting is a vital and necessary safety requirement for most building types. The safety it provides for occupants is paramount and not negotiable.

Product Safety

All Sylvania fixtures carry the CE mark. This is a legal requirement which indicates that is designed and tested to conform to EN 60.598 2-22 and is manufactured in accordance with the quality system EN ISO 9001:2000 under certificate number 103690. Any emergency lighting fixture conversion other than by Sylvania to CE marked fixture invalidates this CE marking and its associated legal protection.

Emergency lighting Equipment

This comprise an inverter plus a set of batteries, which conform to EN 60.598 2-22 and may be mounted:

- Integral with in the fixture (self contained-integral).
- remote from, but with in 1 metre of, the fixture (self contained-remote).

Maintained Operation

A single lamp is used for both general and emergency modes.

In multi-lamp fixtures only one lamp will be used for the provision of emergency illumination.

Emergency lighting is provided for 1 or 3 hours, according to market specifications.

Central Battery

Sylvania fixtures for use with a central battery system are available to special order on a project basis.

Photometric Polar Diagrams

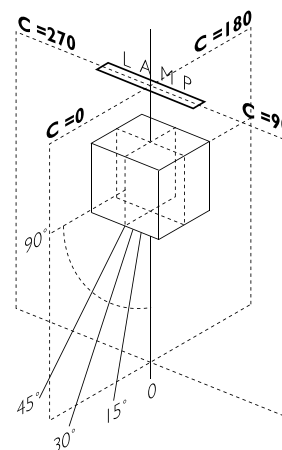
The Tables provided use luminaire Photometric data that has been measured and tested in accordance with CIE 121 and EN 13032-1 "Photometric Data for Luminaires".

Additional photometric data can be provided upon request. All data is also available in CIBSE TM14, EULUMDAT and IES format.

A complementary lighting design service is also available, to provide guidance and recommendations and to ensure lighting solutions are tailored to customer requirements. Supporting this service are the latest computer software facilities enabling accurate predictions and performance checks to be carried out.

Polar Diagram of luminous intensity distribution

These provide a graphic representation of the distribution of light from a luminaire. Often referred to as polar curves, they indicate the intensity, measured in candelas (cd) per 1000 lumens.

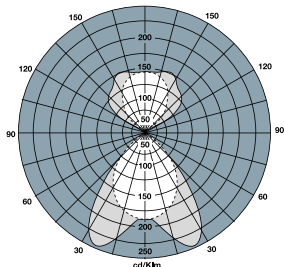


Lighting specifications and applications

In this catalogue you will find different forms of lighting specifications. They will be explained below.

Polar Curve

The polar curve is the graphic representation of the luminous intensity in different directions. If two curves are plotted in one graph, the distributions are different in two vertical planes. The value is indicated in candelas per 1,000 lumen (cd/klm). This value must therefore also be multiplied by the nominal luminous flux of the used lamp(s).



Luminance

Average luminances are represented in two vertical planes, the transversal (CO-180) and the longitudinal (C90-270) one at the 45° to 85° γ-angles. These values are relative to the nominal flux of lamps which equipped luminaire.

Table of average luminance

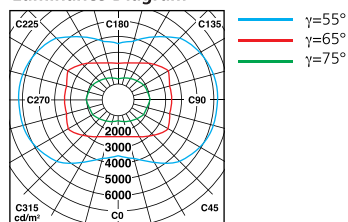
Visual 60: the average luminance, in transverse and longitudinal planes is lower than 200 cd/m², at γ>60°.

Gamma	C0	C30	C60	C90
45°	2414.7	3538.8	5160.9	3971.7
50°	991.4	1952.2	3127.4	1891.2
55°	162.7	946.2	1124.2	166.3
60°	63.3	587.5	185.8	61.8
65°	52.1	187.9	73.6	56.3
70°	49.6	64.5	70.3	61.2
75°	42.1	77.5	79.3	81.2
80°	46.7	101.8	104.3	101.8
85°	74.2	210.7	182.2	134.5

Luminance diagram

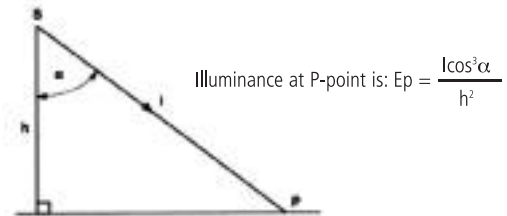
Polar luminance diagram at different gamma angles all around the vertical axis of luminaire. This diagram corresponds to a luminaire with good luminance uniformity.

Luminance Diagram



Illuminance level

Polar curve allows the calculation of illuminance level, in a P-point of an horizontal plane. The luminous source is placed at the h-height, over this plane.



Illuminance level in a room, is not constant in the course of time. It decreases slowly for the following reasons: dust cover and ageing of lamps and luminaires, dust cover and ageing of walls.

For these reasons, we use two illuminance levels:

- Initial illuminance level: it is got when the luminaires are installed in the room, after 100 hours stabilisation of the lamps.
- Maintained illuminance level: it is the lowest illuminance level, before cleaning the installation.

Illuminance level in a room, on the utility plane, depends on the activity.

Some examples

Room	Examples of activity	Maintained illuminance level, for indication (lux)
General outdoor areas	Minimum to move outside	50
	Parking	75
	Storage room	100
General interior areas	Hallways, escalators	150
	Minimum for visual activity	200
	Coarse work e.g. steel construction	300
	Offices, reading and writing work	500
	Fine work e.g. electronics	750
	Very fine work e.g. inspections, drawing room, fine assembly work	1000
Localized lighting	Observation of very fine details and weak contrasts, drawing work, fine inspection	1000
	Observing the restrictions of visual capacity	1500

UGR

CIE 117,

Unified Glare Rating (UGR) is a method to describe discomfort glare according to observer position and direction of view.

EN 12464-1,

European standard specifying lighting requirements for indoor work places, which meet the needs for visual comfort and performance. All usual visual tasks are considered, including Display Screen Equipment (DSE).

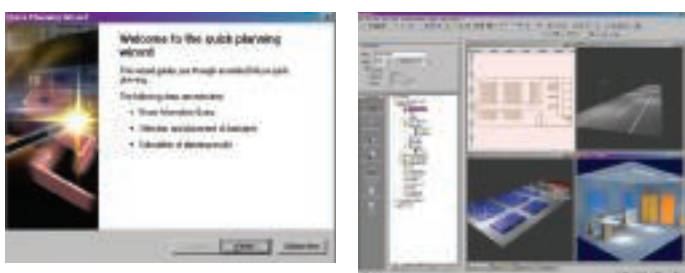
Sylvania Lighting Calculation software: Dialux

Dialux is the professional software for calculation of indoor and outdoor lighting installations. It uses English, German, Italian, Spanish, Portuguese, French, Flemish, Dutch, Swedish, Norwegian, Danish, Finnish, Greek, Polish, Chinese and Russian language. Dialux supports all up-to-date Windows versions.

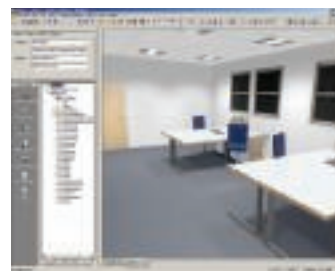
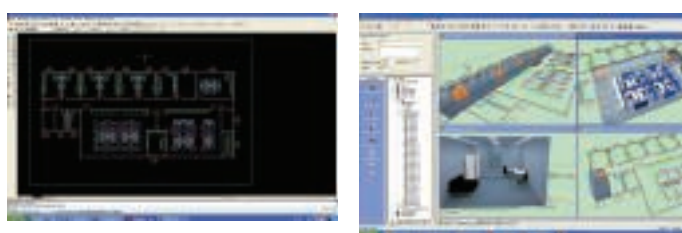
What Dialux offer :

- Quick Planning Wizard for swift work with simple output.
- Detailed planning with output of photometric results for arbitrary surfaces.
- Lighting design according to international standards (e.g. EN12464, CIE 117,...)
- Photo realistic images.

You can plan rooms, exterior scenes and streets. Various help functions facilitate the planning process. For swift results you can use the Quick Planning Wizard that will guide you through the planning step by step.



To create a more realistic visualisation you can assign textures like wallpaper, wood or metal to the surfaces. Textures are stored in an expandable integrated database.



Dialux supports you in creating any kind of lighting design. It is the same workflow to create complex rooms or exterior lighting scenes. A lot of helpful tools enables you to create any kind of room shapes, ceiling structure or exterior shape.



You select luminaires from a database that you can fill with data from the Dialux project partners. They provide the necessary "Plug-In" free of charge on CD or for download from their internet homepages.

The ray tracing program that is integrated in Dialux 3 substantially enhances the visualisation because it uses mirroring and reflection.

Chemical chart

Resistance to chemical
and corrosive agents

	Polyester and fiberclass + PMMA	Polycarbonate + Acrylic	100% Polycarbonate	PO (PMMA reinforced)
SYLPROOF >	CAP	PRO		R-POP2
		Acrylic	Polycarbonate	
Ammonia	Resistant	Resistant	Resistant	Resistant
Acetic acid 5%	Resistant	Resistant	Resistant	Resistant
Acetic acid 10%	Resistant	Semi resistant	Semi resistant	Resistant
Acetic acid 30%	Resistant	Resistant	Resistant	Resistant
Alcohol < 30%	Resistant	Resistant	Resistant	Resistant
Aluminium chloride	Resistant	Resistant	Resistant	Resistant
Aluminium sulfate	Semi resistant	Semi resistant	Semi resistant	Resistant
Ammonium nitrate	Resistant	Resistant	Resistant	
Ammonium phosphate 10%	Resistant	Resistant	Resistant	
Boric acid	Resistant	Resistant	Resistant	
Carbon dioxide	Resistant	Resistant	Resistant	Resistant
Carbon monoxide	Resistant	Resistant	Resistant	Resistant
Carbon tetrachloride	Resistant	Resistant	Resistant	Resistant
Caustic soda < 2%	Semi resistant	Resistant	Resistant	Resistant
Ether	Resistant	Resistant	Resistant	Resistant
Formic acid 10%	Resistant	Semi resistant	Semi resistant	Resistant
Gallic acid	Semi resistant	Resistant	Resistant	
Glycerine	Resistant	Resistant	Resistant	Resistant
Hydrocarbon	Semi resistant	Semi resistant	Resistant	
Hydrochloric acid	Semi resistant	Resistant	Resistant	Resistant
Hydraulic oil	Resistant	Resistant	Resistant	Resistant
Kerosene	Resistant	Resistant	Resistant	Resistant
Lactic acid	Semi resistant	Semi resistant	Semi resistant	Resistant
Linseed oil	Resistant	Resistant	Resistant	Resistant
Lubricating oil	Resistant	Resistant	Resistant	Resistant
Mineral spirit	Resistant	Resistant	Resistant	
Nitric acid 10%	Resistant	Semi resistant	Semi resistant	Resistant
Perhydrol (hydrogen peroxide)	Resistant	Resistant	Resistant	Resistant
Petroleum	Resistant	Semi resistant	Semi resistant	Semi resistant
Phenol	Resistant	Resistant	Resistant	Resistant
Sea water	Semi resistant	Semi resistant	Semi resistant	Resistant
Sodium chloride	Resistant	Resistant	Resistant	Resistant
Sodium hydroxide 10%	Resistant	Resistant	Resistant	Resistant
Sulfuric acid 37.5% - Battery	Semi resistant	Resistant	Resistant	Resistant
Terebentine	Resistant	Resistant	Resistant	Resistant
Vegetable oils	Resistant	Resistant	Resistant	Resistant
Xylene	Resistant	Resistant	Resistant	Resistant
Resistant	Resistant	This information should be used as indicative only. The true chemical compatibility can only be determined under conditions as in the final application. Please contact your local representative in case additional information is required.		
Semi resistant	Semi resistant			
Non resistant	Non resistant			

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Specifications/Conditions of Sale

The following notes prepared to meet the company's obligations imposed by the Health & Safety at Work Act 1974 (Amended 1988) are of a general nature only. Specific information regarding installation use and disposal appropriate to individual models is provided in the instruction leaflet packed with the product.

The Health & Safety at Work Act 1974 imposes upon the users of the company's products an obligation to ensure that all personnel involved in the installation, handling, use or disposal of these products are acquainted with the information provided by the Company and are made fully aware of any precautions that need to be taken.

The installation of these products should only be carried out by a competent person in accordance with the instructions supplied with the product.

Specifications

Leadership in design is based on constant development and improvement. Whilst great care is taken to give up-to-date information in this publication, the right is reserved to amend any specifications here in detailed, without prior notice. All descriptions, illustrations etc, in this publication shall not form part of any contract.

Lamps

Wattage and where applicable type of lamp are shown for every fitting. Incorrect lamps may affect efficiency, change the planned distribution, create glare and in some cases, seriously overheat the luminaire. Unless otherwise stated all luminaires are supplied without lamps.

Wiring

Luminaires are fully prewired and with heat resistant cable wherever required.

Weights

Where given, the weights of luminaires do not include lamps.

Transformer & Control Gear

Transformers and Control Gear are available for 230V-50HZ with other options subject to special quotation or 230V/240V with separate entries on HID graduates.

Colours

Colours shown in print may not be identical to actual colours. For reference the standard paint finishes are:

White – RAL 9016

Black – RAL 9005

Protection of Electronic Components

All products incorporating electronic components are protected against damage which may result from transients on the mains supply.

The level of protection incorporated is generally in excess of the minimum level specified in the current international standards.

It is the customer's responsibility to ensure that electronic equipment is not subjected to transients above these international immunity standards. In extreme cases additional suppression devices may be needed on the mains supply.

The company does not take responsibility for damage to products caused by excessive mains transients.

Patents

Many of the products listed in this publication are the subject of Patents or Patent Applications and/or Design Registration France and other countries.

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All goods supplied for the Company are supplied subject to the Company's General Conditions of Sale which are available on request. All prices are subject to alteration without notice.

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Sylvania has adopted a policy of continuous product development and improvement. Whilst great care is taken to give current information in this publication Sylvania reserves the right to amend specifications herein detailed without prior notice. In this situation it may not be possible to supply the superceded products. All descriptions, illustrations etc in this publication shall not form part of any contract.

LIGHT & effect
International Exhibition Centre
53 Route de Paris
60330 Le Plessis Belleville
France
Phone: +33 (0) 3 44 60 47 10
info.lightandeffect@sylvania-lighting.com

United Kingdom
Concord:marlin Export Sales
Avis Way, Newhaven
East Sussex BN9 0ED
Phone +44 (0) 870 606 2030
Telefax +44 (0) 1273 512 688
concord.intsales@concordmarlin.com

SLI Group Export
Otley Road, Shipley BD17 7SN
Phone +44 (0) 1274 537 810
Telefax +44 (0) 1274 537 811
Export.lampinfo@sylvania-lighting.com

Middle East
United Arab Emirates
Concord:marlin
Dubai Airport Free Zone
West Wing 2WM03
PO Box 54350
Dubai
Phone +971 4299 6551
Telefax +971 4299 655
smoualla@concord1.ae

Asia
China - Guangzhou
Guangzhou Sylvania Enterprises Ltd.
Room 3302, North Tower,
World Trade Center Complex
No. 371-375 Huan Shi Road East,
Guangzhou, China 510095
Phone +86 20 3765 0278 / 0207
Telefax +86 20 3765 0371
sales-cm@sylvania-lighting.com.cn
bsham@sylvania-asiapacific.com.hk

China - Hong Kong
Sylvania Asia Pacific Ltd.
1008-9, 10/F, Conic Investment Building,
No. 13 Hok Yuen Street,
Hung Hom, Kowloon,
Hong Kong
Phone: +852 2369 5531
Telefax: +852 2721 8621
sales-info@sylvania-asiapacific.com.hk
bsham@sylvania-asiapacific.com.hk

China - Shanghai
Sylvania Asia Pacific Ltd.
(Shanghai Representative Office)
Room 1007, 10/F, Shanghai Central Plaza Building,
381 Huaihai Zhong Road,
Luwan District,
Shanghai 200020,
China
Phone: +86 21 6391 5970
Telefax: +86 21 6391 5895
sales-cm@sylvania-lighting.com.cn
bsham@sylvania-asiapacific.com.hk

Taiwan
Sylvania Asia Pacific Ltd.
Taiwan Liaison Office
7F-1, No. 59, Sec. 2
Tunhwa S. Road
Taipei, Taiwan, R.O.C.
Phone +886 2 2708 1749
Telefax +886 2 2702 8933
slaptwn@ms43.hinet.net

Thailand
Sylvania (Thailand) Ltd.
19th floor, Ploenchit Center Bldg,
2 Sukhumvit Soi 2, Klongtoey
Bangkok 10110
Phone +66 2656 9039 to 45 / +66 2254 8885
Telefax +66 2254 3369 / +66 2254 7786
sylvania@sl.co.th
www.sli.co.th

Web
www.sylvania-lighting.com

