

**SYLVANIA**

# Contractor Collection

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Smart | Indoor | Outdoor | Design | Service  
2023

**Light your world**



We bring technology and creative innovation together  
through our products, services and people  
to enhance **energy efficiency**, improve **sustainability**,  
increase **connectivity** and promote **wellbeing**.

Building on over a 100 years of experience to improve light and life  
for our customers, enabling them to focus on what they do best  
by transforming the way they live and work.



# OUR BRANDS

Sylvania LED luminaires and lamps transform interiors and light the way for businesses. With a heritage that stretches back decades, we've put our knowledge and expertise to use across hundreds of challenging lighting projects, from multi-site businesses to stunning urban landscapes.

## SYLVANIA

Concord luminaires principally manufactured in the UK provide architectural lighting solutions for high specification lighting, with over fifty years of experience in museums, galleries, offices, education and luxury retail.

## Concord

Lighting products for special applications go beyond using light merely as a function. They make important contributions to solving some of today's biggest challenges and enhance the world around us. Combining more than 120 years of lighting expertise with world-class R&D and manufacturing capabilities enables Sylvania to anticipate future needs and develop innovative technologies that have a lasting positive impact.

## SpecialITE

## YourHome

Choose Sylvania's Your Home range for tailor-made luminaires and lamps for every home application. From creating a warm, relaxing light in the living room to a productive, functional atmosphere in the study, all of our solutions are shaped around the changing moods and needs of our customers.

## START

Sylvania START range is offered to all commercial, industrial and domestic premises that want to upgrade to a simple, LED lighting solution.

Perfect for large and small scale installations, the START range can be tailored to suit any environment.

360 Services are designed to compliment Sylvania's comprehensive range of light fixtures to provide you with a total solution service.

Our services "toolkit" can help customers save energy, decarbonise, de-risk their investment and project timelines, minimise disruption, ensure access to key financial schemes, and help protect their capital with turnkey solutions for all phases of their project that safeguard successful project execution and ensure the client's needs are met.

## 360 Services

## SylSmart

With its wireless technology, sensors and distributed intelligence, Smart Lighting is the backbone of the digital infrastructure of buildings.

Light can be controlled throughout an entire room or building, ensuring highest lighting control flexibility, combined with maximum energy efficiency.

SylSmart solutions are rapidly installed, easy to commission and fully customisable to get the light you want.

# SMART SOLUTIONS

# PRODUCT RANGES



## Applications

As an innovation leader, we supply an extensive range of lamps, luminaires and lighting control solutions for various professional lighting application areas.

[1]



[3]



[2]



[4]

[5]



[6]

[7]



[8]



### Retail [1]

Lighting can have a huge impact on the bottom line in the retail environment. From enticing window displays to encouraging customers to spend more time on the shop floor, lighting does so much more than illuminate a product. Done correctly, it can even reduce overheads.

### Office [2]

We know that lighting impacts our health, mood and sense of well-being – and all of those things contribute to our productivity. We take a human centric approach to lighting office spaces, reducing negative elements such as eye fatigue and headaches.

### Logistics and Industry [3]

This is a demanding sector with demanding needs. Many of these buildings are running 24/7 and need an intelligent lighting solution that's cost-effective, low maintenance and sustainable. We work with these businesses to determine the total cost of ownership and guarantee a return on investment.

### Education [4]

The learning environment is where we cultivate ideas and nurture young talent. Light levels that are strictly regulated for UGR and flicker have an important role to play. Lighting also accounts for over 50% of electricity costs in most schools, presenting an excellent opportunity to increase efficiency and lower costs.

### Museum and Galleries [5]

Lighting has many surprising uses in a museum or gallery. From illuminating exhibits and artefacts to making visitors feel comfortable and welcome, light is a huge part of the overall experience. We have a long and distinguished heritage in museum and gallery lighting.

### Hospitality [6]

Ambience and atmosphere are key when it comes to hosting, and nothing impacts those things more than lighting. From hotels and restaurants to clubs and bars, we have a range of lighting solutions that can be tailored to suit any environment while creating unique customer experiences.

### Residential and Consumer [7]

Light is one of the key ingredients when it comes to making a house a home. Whether the challenge is to bring warmth to a sitting room or function to a kitchen, we offer home owners a range of cost-effective solutions based solely on their unique needs.

### Outdoor [8]

Due to fluctuations in weather and the changing seasons, outdoor lighting can be a complex challenge. Our outdoor lighting solutions takes all of this into account, providing cost-effective lighting that requires little to no maintenance. For commercial premises, facade lighting can create expressive and memorable architectural lighting experiences.

360 Services

# Providing smart tools for your business

Without regular maintenance light levels can fall by up to **30%** in 2-3 years, leading to more lights being turned on to compensate.

**360 Services are available for all projects, however large or small, and can be used in any combination.**

To access 360 Services simply speak with your local Sylvania representative or visit: [sylvania-lighting.co.uk](http://sylvania-lighting.co.uk) for more information.



**360 Services can assist you in delivering your projects to achieve energy efficiency, carbon savings, compliance, piece of mind or simply discovering what is actually in your estate.**

#### Audit

This can be as simple as creating an asset register, to as critical as ensuring Emergency Lighting compliance. A Sylvania Audit can also discover the opportunities for your business to make efficiency gains and savings.

#### Design

What's best for your project? Where do the fixtures need to go? Is my Emergency Lighting in the right place? Use the Sylvania Design service to provide you with a professional lighting design and all the associated outputs.

#### Turnkey installation

As a 'one stop shop' Sylvania will Project Manage your project, install the new lighting equipment, remove and recycle the old equipment and ensure your new equipment is setup, optimised and customised to suit your operation.

#### Commissioning

You've got your new lighting infrastructure – ensure that it is setup in the most efficient manner, ensure it is compliant or just have some changes made, following a space reorganisation – use the Sylvania Commissioning option.

#### Measurement & Verification

Our M&V service captures real time energy consumption of the existing and the new lighting solution of your premise, verifies actual savings compared to proposed ROI. Through the remote M&V online tool it allows you to oversee your site: detect anomalous working, receive notifications and reports. The power is in your hands!

#### Maintenance

Keep your infrastructure in tip top condition; ensure continued compliance and efficient operation.

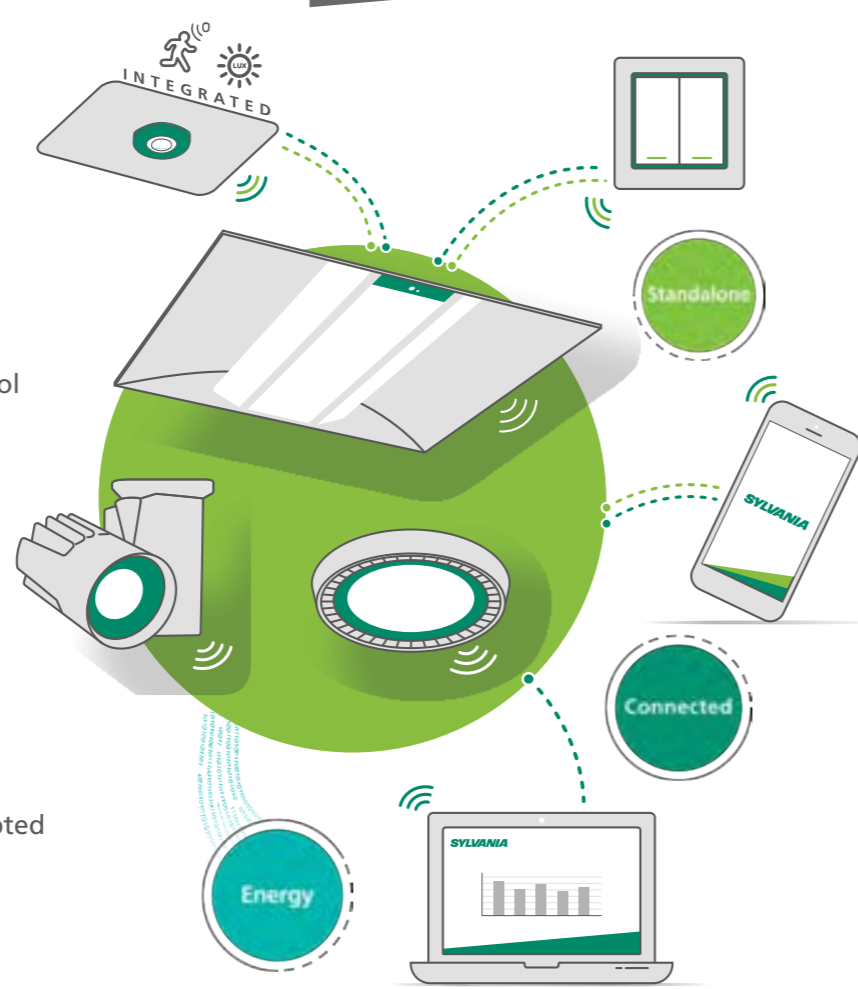
# Empowering your digital world

SylSmart



**“Smart Lighting dramatically changes the traditional use of lighting and paves the way for new opportunities”**

**EDWARD LEES**  
Head of Technical Product Development  
Smart Lighting



## Key benefits:

- No new cables, no disruption**  
wireless technology making installation easy
- Easy programming**  
intuitive tools put power back into your hands, no engineers needed
- High flexibility**  
customise your system to get the light you want
- Hassle-free operation, low maintenance**  
highly flexible intelligent lighting control features manages it all for you
- Abundant energy savings**  
highly intelligent – will deliver massive savings and enable access to energy efficiency certificates for your building
- Redundancy & reliability**  
decentralised intelligence ensuring no single point of failure
- Designed with security built in**  
user access controlled and highly encrypted
- Future proof**  
always up-to date & upgradeable

## SylSmart Standalone

Maximum control. Minimum installation.

- Dynamic lighting options**
  - timers, schedules, grouping, colour control (RGBW)
  - circadian rhythm tunable white, fully customisable light
- Easy programming and intuitive use**
  - setting scenes, creating groups at the touch of a button
  - easy to use app for rapid setup and adjustments
- Reliable & Future proof wireless controls**
  - distributed intelligence, each luminaire has its own brain
  - power in your hands vs engineers/electricians
- Cost effective smart lighting solution**
  - good value, feature full solution with low maintenance
  - occupancy sensing and daylight harvesting sensors

## SylSmart Connected

Unlocking the intelligent building

- Intelligence & Smart Controls**
  - decentralised operating system based on mesh network, offering exceptional motion coverage
  - full set of smart controls feature... occupancy & daylight sensing grouping & scenes, tunable white
- Rapid Installation & Scalable**
  - preconfigure off-site, optimise on-site time
  - no extra wiring and simple to scale with preloaded setting
- Easy Maintenance**
  - floor plan view, preventative maintenance
  - adaptability to changing layouts
- Cyber secure, Interoperable & Robust**
  - no single point of failure and cybersecure
  - open standard Qualified Bluetooth® Mesh

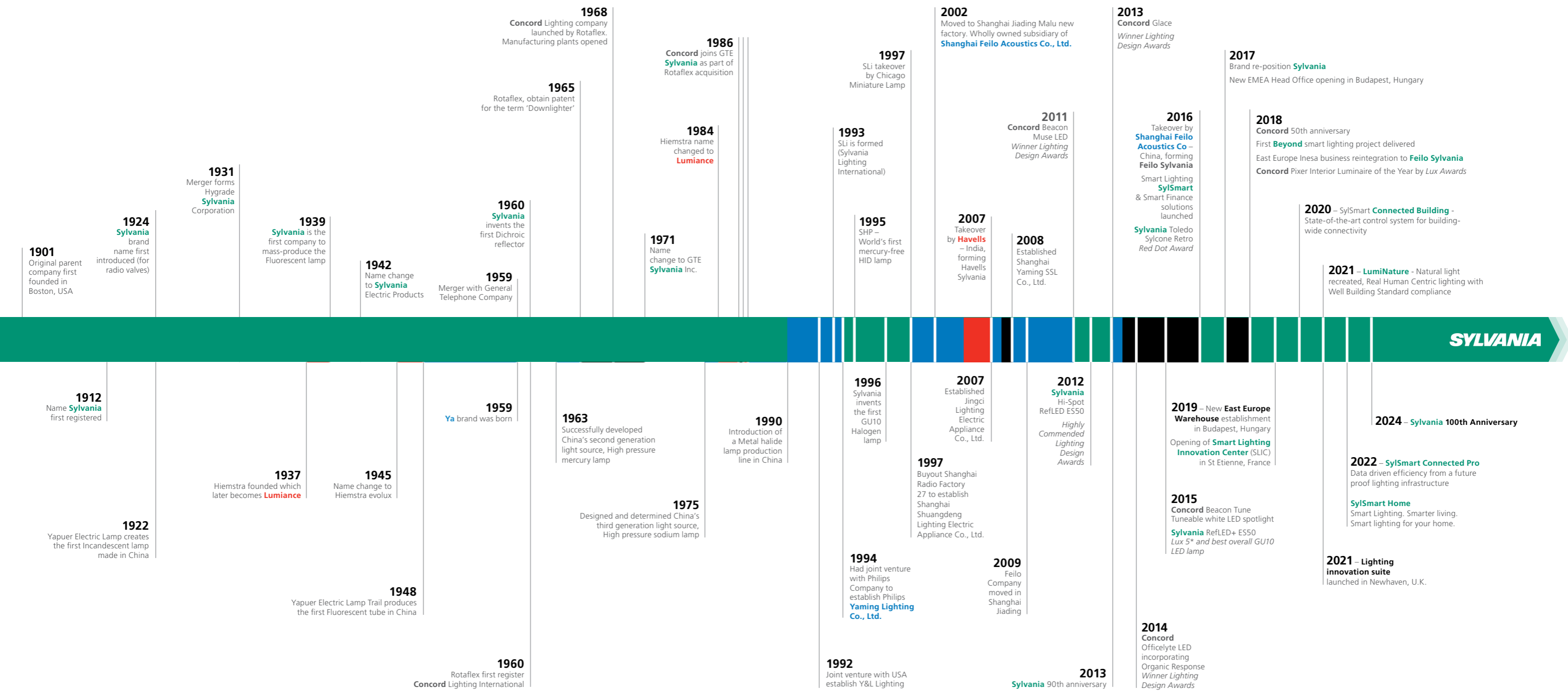
## SylSmart Energy

Driving efficient and carbon-free business

- Identify Costs**
  - access energy consumption data all your sites
  - discover high-cost areas in fine data granularity
- Create Strategies**
  - plan cost saving actions through infrastructure upgrades
  - verify & adjust forecasted savings
- Visualise & Monitor**
  - visualise reduction in OPEX and carbon savings supported by real-time analytics
  - share energy consumption reports & fulfill obligations
- Maximise Decarbonisation**
  - develop long term strategy to reach net zero with improved cashflow, building a sustainable business



# 100 years of light and beyond



**1901**  
Original parent company first founded in Boston, USA

**1924**  
**Sylvania** brand name first introduced (for radio valves)

**1931**  
Merger forms Hygrade **Sylvania** Corporation

**1939**  
**Sylvania** is the first company to mass-produce the Fluorescent lamp

**1942**  
Name change to **Sylvania** Electric Products

**1959**  
Merger with General Telephone Company

**1960**  
**Sylvania** invents the first Dichroic reflector

**1965**  
Rotaflex, obtain patent for the term 'Downlighter'

**1968**  
**Concord** Lighting company launched by Rotaflex. Manufacturing plants opened

**1971**  
Name change to GTE **Sylvania** Inc.

**1984**  
Hiemstra name changed to **Lumiance**

**1986**  
**Concord** joins GTE **Sylvania** as part of Rotaflex acquisition

**1997**  
SLI takeover by Chicago Miniature Lamp

**1993**  
SLI is formed (Sylvania Lighting International)

**1995**  
SHP – World's first mercury-free HID lamp

**2007**  
Takeover by **Havells** – India, forming Havells Sylvania

**2011**  
**Concord** Beacon Muse LED  
*Winner Lighting Design Awards*

**2008**  
Established Shanghai Yaming SSL Co., Ltd.

**2013**  
**Concord** Glace  
*Winner Lighting Design Awards*

**2016**  
Takeover by **Shanghai Feilo Acoustics Co** – China, forming **Feilo Sylvania**  
Smart Lighting **SylSmart** & Smart Finance solutions launched  
**Sylvania** Toledo Sylcone Retro Red Dot Award

**2017**  
Brand re-position **Sylvania**  
New EMEA Head Office opening in Budapest, Hungary

**2018**  
**Concord** 50th anniversary  
First **Beyond** smart lighting project delivered  
East Europe Inesa business reintegration to **Feilo Sylvania**  
**Concord** Pixier Interior Luminaire of the Year by *Lux Awards*

**2020** – SylSmart **Connected Building** - State-of-the-art control system for building-wide connectivity

**2021** – **LumiNature** - Natural light recreated, Real Human Centric lighting with Well Building Standard compliance

**1912**  
Name **Sylvania** first registered

**1922**  
Yapuer Electric Lamp creates the first Incandescent lamp made in China

**1937**  
Hiemstra founded which later becomes **Lumiance**

**1945**  
Name change to Hiemstra evolux

**1948**  
Yapuer Electric Lamp Trail produces the first Fluorescent tube in China

**1960**  
Rotaflex first register **Concord** Lighting International

**1959**  
**Ya** brand was born

**1963**  
Successfully developed China's second generation light source, High pressure mercury lamp

**1975**  
Designed and determined China's third generation light source, High pressure sodium lamp

**1990**  
Introduction of a Metal halide lamp production line in China

**1996**  
**Sylvania** invents the first GU10 Halogen lamp

**1994**  
Had joint venture with Philips Company to establish Philips **Yaming Lighting Co., Ltd.**

**1992**  
Joint venture with USA establish Y&L Lighting

**2007**  
Established Jingci Lighting Electric Appliance Co., Ltd.

**1997**  
Buyout Shanghai Radio Factory 27 to establish Shanghai Shuangdeng Lighting Electric Appliance Co., Ltd.

**2009**  
**Feilo** Company moved in Shanghai Jiading

**2012**  
**Sylvania** Hi-Spot RefLED E550  
*Highly Commended Lighting Design Awards*

**2013**  
**Sylvania** 90th anniversary

**2019** – New **East Europe Warehouse** establishment in Budapest, Hungary  
Opening of **Smart Lighting Innovation Center (SLIC)** in St Etienne, France

**2015**  
**Concord** Beacon Tune Tuneable white LED spotlight  
**Sylvania** RefLED+ E550 Lux 5\* and best overall GU10 LED lamp

**2014**  
**Concord** Officelyte LED incorporating Organic Response  
*Winner Lighting Design Awards*

**2024** – **Sylvania** 100th Anniversary

**2022** – **SylSmart Connected Pro** Data driven efficiency from a future proof lighting infrastructure

**SylSmart Home** Smart Lighting. Smarter living. Smart lighting for your home.

**2021** – **Lighting innovation suite** launched in Newhaven, U.K.

**SYLVANIA**

## PRODUCT CATEGORIES

### Panels



### Downlights



### Recessed Spotlights



### Pendant



### Ambient Decorative



### Tracklights



### Track



### Emergency Lighting



## PRODUCT CATEGORIES

### Battens



### Weatherproof



### Floodlights



### HighBay



### Outdoor



### Wireless Controls



### Added Value Services



### Technical





**SYLVANIA**



## Panels for all applications

### START Panel

START Panel family is a range of recessed LED panels for general indoor lighting applications such as breakout areas, offices and meeting rooms. They can be also installed surface mounted and suspended with the available accessories.

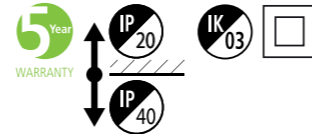
This range includes Standard, High Efficacy, UGR19, IP44, IP54, IP65, CRI90, DALI, SylSmart Connected and SylSmart Standalone enabled luminaires in different sizes: 600x600mm, 1200x300mm and 1200x600mm.

SylSmart Standalone is a wireless, plug and play lighting control solution which delivers maximum control and minimum installation for smaller applications. SylSmart Connected system provides a ready-to-go, open standard, luminaire integrated control system for floor-wide and building-wide use.

The optical design ensures a consistent uniform output throughout the luminaire creating a comforting, and soft light source.



# START Panel UGR19



## Features

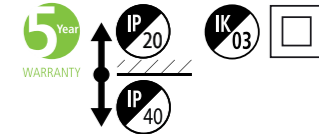
- The range includes 600x600mm, 1200x300mm and 1200x600mm modules to meet the most common installation needs
- Microprismatic diffuser for low glare and low UGR 19 value
- Slim size of 25 or 35mm maximum total height - with driver 55 or 65mm
- Standard, High Efficacy, UGR19, CRI 90 and DALI create a wide choice for customers
- High efficacy of up to 111lm/W (600x600mm 4000K)
- Delivers up to 5900 lumen (1200x600, 4000K)
- Available in Warm White (3000K), Neutral White (4000K) and Cool White (6500K). Some of the temperature colour options could be available only upon request with a minimum quantity order. Pls always check in advance with your sales contact
- Meets IP40 degree of protection from the front and IK03 degree of impact resistance
- Loop-in-Loop-out (LILO) box added as an option for easy installation
- Safety cables (2 pieces) as additional parts in the package
- SDCM<3
- Long lifespan: 100.000 hours at 70% of the original output

## Product information

Code	Description	Correlated Colour Temperature (K)	Total power consumption (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Dimming Method	Nominal Product Height (mm)	Nominal Product Length (mm)	Nominal Product Width (mm)	Mains voltage (V)
<b>START Panel Non Dimmable</b>										
CRI90 600x600										
0041236	START Panel UGR19 600x600 4000lm 940 LILO	4000	43	4000	93	NON-DIM	35	595	595	220-240
CRI80 600x600										
0042824	START Panel UGR19 600x600 3400Lm 830 LILO	3000	36	3400	94	NON-DIM	25	595	595	220-240
0042825	START Panel UGR19 600x600 3600Lm 840 LILO	4000	36	3600	100	NON-DIM	25	595	595	220-240
0042827	START Panel UGR19 600x600 3800Lm 830 LILO	3000	36	3800	106	NON-DIM	25	595	595	220-240
0042828	START Panel UGR19 600x600 4000Lm 840 LILO	4000	36	4000	111	NON-DIM	25	595	595	220-240
0042829	START Panel UGR19 600x600 4000Lm 865 LILO	6500	36	4000	111	NON-DIM	25	595	595	220-240
0042830	START Panel UGR19 600x600 4600Lm 830 LILO	3000	43	4600	107	NON-DIM	25	595	595	220-240
0042831	START Panel UGR19 600x600 4800Lm 840 LILO	4000	43	4800	112	NON-DIM	25	595	595	220-240
CRI80 1200x300										
0042836	START Panel UGR19 1200x300 3600Lm 830 LILO	3000	36	3600	100	NON-DIM	25	1195	295	220-240
0042837	START Panel UGR19 1200x300 3800Lm 840 LILO	4000	36	3800	106	NON-DIM	25	1195	295	220-240
CRI80 1200x600										
0042201	START Panel UGR19 1200x600 5700Lm 830 LILO	3000	58	5700	98	NON-DIM	35	1195	595	220-240
0042202	START Panel UGR19 1200x600 5900Lm 840 LILO	4000	58	5900	102	NON-DIM	35	1195	595	220-240
0042203	START Panel UGR19 1200x600 5900Lm 865 LILO	6500	58	5900	102	NON-DIM	35	1195	595	220-240

Please always check item availability with your sales contact. Some of the items could be available only upon request with a minimum quantity order

# START Panel UGR19

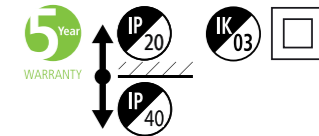


Code	Description	Correlated Colour Temperature (K)	Total power consumption (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Dimming Method	Nominal Product Height (mm)	Nominal Product Length (mm)	Nominal Product Width (mm)	Mains voltage (V)
<b>START Panel DALI</b>										
CRI80 600x600 DALI										
0042849	START Panel UGR19 600x600 DALI 3600Lm 840	4000	36	3600	100	DALI	25	595	595	220-240
0042851	START Panel UGR19 600x600 DALI 3800Lm 830	3000	36	3800	106	DALI	25	595	595	220-240
0042852	START Panel UGR19 600x600 DALI 4000Lm 840	4000	36	4000	111	DALI	25	595	595	220-240
0042855	START Panel UGR19 600x600 DALI 4800Lm 840	4000	43	4800	112	DALI	25	595	595	220-240
CRI80 1200x300 DALI										
0042860	START Panel UGR19 1200x300 DALI 3600Lm 830	3000	36	3600	100	DALI	25	1195	295	220-240
0042861	START Panel UGR19 1200x300 DALI 3800Lm 840	4000	36	3800	106	DALI	25	1195	295	220-240

Please always check item availability with your sales contact. Some of the items could be available only upon request with a minimum quantity order



# START Panel UGR19 SylSmart enabled



## Features

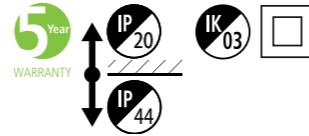
- The range includes 600x600mm and 1200x300mm modules to meet the most common installation needs
- Microprismatic diffuser for low glare and low UGR 19 value
- SylSmart Connected (SSA) is a wireless, intelligent lighting control system offering a sustainable solution for office applications achieving high energy efficiency without compromising the comfort of occupants
- SylSmart Standalone (SSC) is a wireless, plug and play lighting control solution which is ideal for any applications where easy installations, low upfront cost and low maintenance are essential
- Slim size 35mm maximum (with driver 65mm) for SSA, 25mm maximum (with driver 55mm) for SSC
- High efficacy of up to 112lm/W (600x600mm @ 4000K)
- Delivers up to 4800lm (600x600, 4000K)
- Available in Warm White (3000K), Neutral White (4000K) and Cool White (6500K). Some of the temperature colour options could be available only upon request with a minimum quantity order. Pls always check in advance with your sales contact
- Meets IP40 degree of protection from the front and IK03 degree of impact resistance
- Loop-in-Loop-out (LILO) box added as an option for easy installation
- Safety cables (2 pieces) as additional parts in the package
- SDCM<3
- Long lifespan: 100.000 hours at 70% of the original output

## Product information

Code	Description	Correlated Colour Temperature (K)	Total power consumption (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Dimming Method	Nominal Product Height (mm)	Nominal Product Length (mm)	Nominal Product Width (mm)	Mains voltage (V)
<b>START Panel SylSmart Connected Building</b>										
CRI80 600x600										
0042388	START Panel UGR19 600x600 3800Lm 830 SSA	3000	36	3800	106	SylSmart SSA, 35	595	595	220-240	
0042389	START Panel UGR19 600x600 4000Lm 840 SSA	4000	36	4000	111	SylSmart SSA	595	595	220-240	
0042390	START Panel UGR19 600x600 4600Lm 830 SSA	3000	43	4600	107	SylSmart SSA	595	595	220-240	
0042391	START Panel UGR19 600x600 4800Lm 840 SSA	4000	43	4800	112	SylSmart SSA	595	595	220-240	
CRI80 1200x300										
0042394	START Panel UGR19 1200x300 3600Lm 830 SSA	3000	36	3600	100	SylSmart SSA	1195	295	220-240	
0042395	START Panel UGR19 1200x300 3800Lm 840 SSA	4000	36	3800	106	SylSmart SSA	1195	295	220-240	
<b>START Panel SylSmart Standalone</b>										
CRI80 600x600										
0042893	START Panel UGR19 600x600 3800Lm 830 SSC	3000	36	3800	106	SylSmart SSC	25	595	595	220-240
0042894	START Panel UGR19 600x600 4000Lm 840 SSC	4000	36	4000	111	SylSmart SSC	25	595	595	220-240
0042895	START Panel UGR19 600x600 4000Lm 865 SSC	6500	36	4000	111	SylSmart SSC	25	595	595	220-240
0042896	START Panel UGR19 600x600 4600Lm 830 SSC	3000	43	4600	107	SylSmart SSC	25	595	595	220-240
0042897	START Panel UGR19 600x600 4800Lm 840 SSC	4000	43	4800	112	SylSmart SSC	25	595	595	220-240
0042898	START Panel UGR19 600x600 4800Lm 865 SSC	6500	43	4800	112	SylSmart SSC	25	595	595	220-240
CRI80 1200x300										
0042899	START Panel UGR19 1200x300 3600Lm 830 SSC	3000	36	3600	100	SylSmart SSC	25	1195	295	220-240
0042900	START Panel UGR19 1200x300 3800Lm 840 SSC	4000	36	3800	106	SylSmart SSC	25	1195	295	220-240
0042901	START Panel UGR19 1200x300 3800Lm 865 SSC	6500	36	3800	106	SylSmart SSC	25	1195	295	220-240

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# START Panel UGR19 IP44



## Features

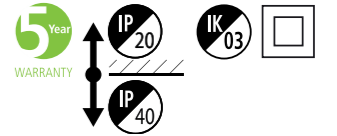
- The range includes 600x600mm and 1200x300mm modules to meet the most common installation needs
- Microprismatic diffuser for low glare and low UGR 19 value
- Slim size 35mm maximum (with driver 65mm)
- Recessed integrated LED IP44 degree (from the front) panel with anti-glare UGR19 prismatic diffuser
- High efficacy of up to 126lm/W (600x600mm HE version @ 4000K)
- Delivers up to 4300lm (600x600mm, 4000K)
- Available in Warm White (3000K), Neutral White (4000K). Some of the temperature colour options could be available only upon request with a minimum quantity order. Pls always check in advance with your sales contact
- Meets IP44 degree of protection from the front and IK03 degree of impact resistance
- Loop-in-Loop-out (LILO) box added as an option for easy installation
- Safety cables (2 pieces) as additional parts in the package
- SDCM<3
- Long lifespan: 100.000 hours at 70% of the original output

## Product information

Code	Description	Correlated Colour Temperature (K)	Total power consumption (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Dimming Method	Nominal Product Height (mm)	Nominal Product Length (mm)	Nominal Product Width (mm)	Mains voltage (V)
<b>START Panel IP44</b>										
<b>CRI80 600x600 NON-DIM</b>										
0042630	ST Panel UGR19 600x600 HE IP44 4100 830 LILO	3000	34	4100	121	NON-DIM	35	595	595	220-240
0042631	ST Panel UGR19 600x600 HE IP44 4300 840 LILO	4000	34	4300	126	NON-DIM	35	595	595	220-240
0042632	ST Panel UGR19 600x600 HE IP44 4100 830 TPA LILO	3000	34	4100	121	NON-DIM	35	595	595	220-240
0042633	ST Panel UGR19 600x600 HE IP44 4300 840 TPA LILO	4000	34	4300	126	NON-DIM	35	595	595	220-240
<b>CRI80 1200x300 NON-DIM</b>										
0042635	ST Panel UGR19 1200x300 HE IP44 4100 840 LILO	4000	34	4100	121	NON-DIM	35	1195	295	220-240
0042636	ST Panel UGR19 1200x300 HE IP44 3900 830 TPA LILO	3000	34	3900	115	NON-DIM	35	1195	295	220-240
0042637	ST Panel UGR19 1200x300 HE IP44 4100 840 TPA LILO	4000	34	4100	121	NON-DIM	35	1195	295	220-240
<b>CRI80 600x600 DALI</b>										
0042638	ST Panel UGR19 600x600 HE IP44 DALI 4100 830 TPA	3000	34	4100	121	DALI	35	595	595	220-240
0042639	ST Panel UGR19 600x600 HE IP44 DALI 4300 840 TPA	4000	34	4300	126	DALI	35	595	595	220-240
<b>CRI80 1200x300 DALI</b>										
0042640	ST Panel UGR19 1200x300 HE IP44 DALI 3900 830 TPA	3000	34	3900	115	DALI	35	1195	295	220-240
0042641	ST Panel UGR19 1200x300 HE IP44 DALI 4100 840 TPA	4000	34	4100	121	DALI	35	1195	295	220-240
<b>CRI80 600x600 SSC</b>										
0042678	ST Panel UGR19 600x600 HE IP44 SSC 4100 830 TPA	3000	34	4100	121	SSC	35	595	595	220-240
0042679	ST Panel UGR19 600x600 HE IP44 SSC 4300 840 TPA	4000	34	4300	126	SSC	35	595	595	220-240
<b>CRI80 1200x300 SSC</b>										
0042680	ST Panel UGR19 1200x300 HE IP44 SSC 3900 830 TPA	3000	34	3900	115	SSC	35	595	595	220-240
0042681	ST Panel UGR19 1200x300 HE IP44 SSC 4100 840 TPA	4000	34	4100	121	SSC	35	595	595	220-240

Please always check item availability with your sales contact. Some of the items could be available only upon request with a minimum quantity order

# START Panel



## Features

- The range includes 600x600mm, 1200x300mm modules to meet the most common installation needs
- Opal diffuser to achieve a wide beam and provides an even and diffused lighting
- Slim size 25mm maximum (with driver 65mm)
- Available in Warm White (3000K) and Neutral White (4000K)
- High efficacy of up to 126lm/W (600x600mm HE version @ 4000K)
- Delivers up to 4300lm (600x600mm, 4000K)
- Available in Warm White (3000K), Neutral White (4000K) and Cool White (6500K). Some of the temperature colour options could be available only upon request with a minimum quantity order. Pls always check in advance with your sales contact
- Meets IP40 degree of protection from the front and IK03 degree of impact resistance
- Loop-in-Loop-out (LILO) box added as an option for easy installation
- Safety cables (2 pieces) as additional parts in the package
- SDCM<3
- Long lifespan: 100.000 hours at 70% of the original output

## Product information

Code	Description	Correlated Colour Temperature (K)	Total power consumption (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Dimming Method	Nominal Product Height (mm)	Nominal Product Length (mm)	Nominal Product Width (mm)	Mains voltage (V)
<b>START Panel</b>										
<b>CRI80 600x600 NON-DIM</b>										
0042869	START Panel 600x600 3800Lm 830 LILO	3000	36	3800	106	NON-DIM	25	595	595	220-240
0042870	START Panel 600x600 4000Lm 840 LILO	4000	36	4000	111	NON-DIM	25	595	595	220-240
0042872	START Panel 600x600 HE 4100Lm 830 LILO	3000	34	4100	121	NON-DIM	25	595	595	220-240
0042873	START Panel 600x600 HE 4300Lm 840 LILO	4000	34	4300	126	NON-DIM	25	595	595	220-240
<b>CRI80 1200x300 NON-DIM</b>										
0042878	START Panel 1200x300 HE 3900Lm 830 LILO	3000	34	3900	115	NON-DIM	25	1195	295	220-240
0042879	START Panel 1200x300 HE 4100Lm 840 LILO	4000	34	4100	121	NON-DIM	25	1195	295	220-240

Please always check item availability with your sales contact. Some of the items could be available only upon request with a minimum quantity order

# START Panel



## Features

- An economic version with efficacy of up to 89lm/W
- Opal diffuser to achieve a wide beam and provides an even and diffused lighting
- Slim size with width of 25mm (with driver 55mm)
- Delivers up to 3200 lumen
- Loop-in-Loop-out (LILO) box added as an option for easy installation
- Meets IP40 degree of protection from the front and IK03 degree of impact resistance
- 600 x 600mm and 1200 x 300mm modules to meet most common installation needs
- Available in Warm White (3000K), Neutral White (4000K) and Cool White (6500K). Some of the temperature colour options could be available only upon request with a minimum quantity order. Pls always check in advance with your sales contact
- Even coverage of light throughout the face - no dark or hot spots
- Long lifespan: 100.000 hours at 70% of the original output

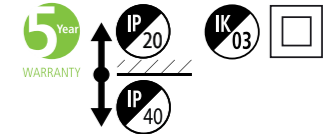
## Product information

Code	Description	Correlated Colour Temperature (K)	Total power consumption (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Dimming Method	Nominal Product Height (mm)	Nominal Product Length (mm)	Nominal Product Width (mm)	Mains voltage (V)
<b>START Panel Non Dimmable</b>										
<b>CRI90 600x600</b>										
0042807	START Panel 3YW 600x600 3200Lm 830 LILO	3000	36	3200	89	NON-DIM	25	595	595	220-240
0042808	START Panel 3YW 600x600 3200Lm 840 LILO	4000	36	3200	89	NON-DIM	25	595	595	220-240
0042809	START Panel 3YW 600x600 3200Lm 865 LILO	6500	36	3200	89	NON-DIM	25	595	595	220-240
<b>CRI80 1200x300</b>										
0042810	START Panel 3YW 1200x300 3200Lm 830 LILO	3000	36	3200	89	NON-DIM	25	1200	300	220-240
0042811	START Panel 3YW 1200x300 3200Lm 840 LILO	4000	36	3200	89	NON-DIM	25	1200	300	220-240

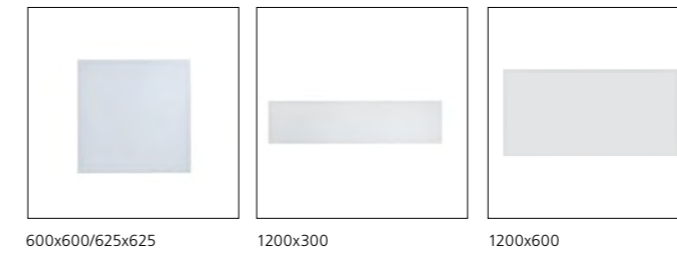
Please always check item availability with your sales contact. Some of the items could be available only upon request with a minimum quantity order



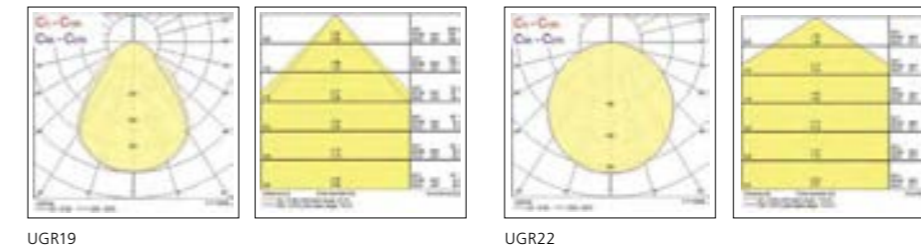
# START Panel



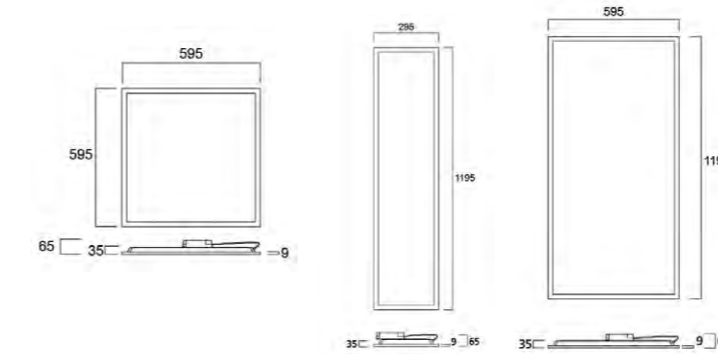
## Additional Images



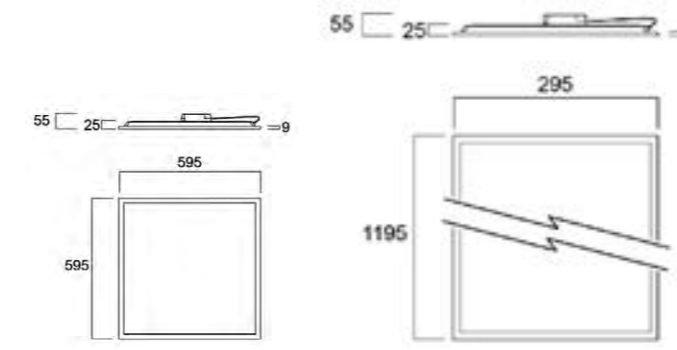
## Photometric data



## Dimension, 35mm height versions (mm)

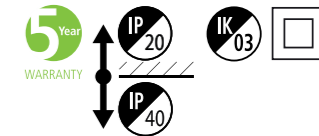


## Dimension, 25mm height versions (mm)





## START Panel accessories



### Accessories

Code	Description
0047046	START eco Panel Mounting Clips 4 pcs
0047416	Plasterboard Ceiling Frame 600x600
0047418	Plasterboard Ceiling Frame 1200x300
0047517	START Flat Panel LED Suspension Kit
0047197	Surface Mounting Kit 600x600x70mm
0047198	Surface Mounting Kit 1200x300x70mm
0047269	Surface Mounting Kit 1200x600x70mm
0046600	Emergency Pack Manual Test 6V-55V
0046601	Emergency Pack Self Test/DALI 6V-55V

Please check accessory compatibility on the website



**SYLVANIA**



## High light output and efficacy

### **START** Panel IP54



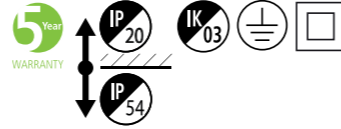
Start Panel IP54 is a highly efficient range of LED Panel luminaires, ideal for offices, meeting rooms, corridors, breakout areas and other general indoor lighting applications including humid areas.

The range features a high IP54 degree of protection on the front side and a Multipower functionality where the luminous flux of the luminaire can be tailored to local needs during

installation by only setting a quick selector switch. The range also comprises of DALI dimmable UGR and non-UGR versions.

The backlit Start Panel IP54 range generates a greater lumen efficacy (up to 146lm/W) than the standard edge-lit flat panels. The luminaire can be installed as recessed but also as a surface mounted solution with the available accessory frame.

# START Panel IP54



## Features

- Perfect for office lighting and for general lighting applications such as circulation areas, corridors and breakout areas
- Adjustable lumen output with multipower driver design ranging from 12-36W and 1825-5100lm (4000K) to meet all office needs with one single product
- DALI driver option available
- Meets IP54 degree of protection (front side) and IK03 impact resistance
- Backlit panel with uniform distribution for comfortable light
- Designed for 625x625mm t-grid ceiling panels
- Slim profile of 65mm - suitable for restricted ceiling space
- Plasterboard and surface mounted ceiling framed available as accessories
- UGR<19 versions comply with EN12464-1 - suitable for most office applications
- Highly efficient: up-to 146lm/W (4000K)
- Low flicker: <5%
- Warm white (3000K) and neutral white (4000K)
- Meets SDCM< 3 and RG0
- Emergency conversion kit available
- Long lifespan: 100.000 hours at 70% of the luminous flux

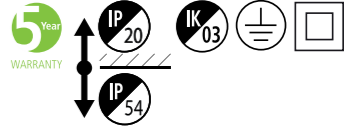
## Product information

Code	Description	Correlated Colour Temperature (K)	Total power consumption (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Dimming Method	Beam angle (°)	Nominal Product Length (mm)	Nominal Product Width (mm)	Mains voltage (V)
<b>START Panel IP54</b>										
<b>START Panel IP54 Multipower 600x600</b>										
0047990	START Panel IP54 Mltpwr 600x600 1725-4900lm 830	3000	36	4900	136	Multi-Power steps	120	595	595	220-240
0047991	START Panel IP54 Mltpwr 600x600 1825-5100lm 840	4000	35	5100	146	Multi-Power steps	120	595	595	220-240
0047992	START Panel IP54 Mltpwr UGR19 600x600 1500-4350lm 830	3000	36	4350	121	Multi-Power steps	90	595	595	220-240
0047993	START Panel IP54 Mltpwr UGR19 600x600 1625-4450lm 840	4000	35	4450	127	Multi-Power steps	90	595	595	220-240
<b>START Panel IP54 Multipower 600x600 GST18/3 connector</b>										
0047042	START Panel IP54 Mltpwr 600x600 1725-4900lm 830 GST18/3	3000	36	4900	136	Multi-Power steps	120	595	595	220-240
0047043	START Panel IP54 Mltpwr 600x600 1825-5100lm 840 GST18/3	4000	35	5100	146	Multi-Power steps	120	595	595	220-240
0047044	START Panel IP54 Mltpwr UGR19 600x600 1500-4350lm 830 GST18/3	3000	36	4350	121	Multi-Power steps	90	595	595	220-240
0047045	START Panel IP54 Mltpwr UGR19 600x600 1625-4450lm 840 GST18/3	4000	35	4450	127	Multi-Power steps	90	595	595	220-240
<b>START Panel IP54 600x600 DALI</b>										
0047782	START Panel IP54 600x600 4500lm 830 DALI	3000	36	4500	120	DALI	120	595	595	220-240
0047783	START Panel IP54 600x600 4750lm 840 DALI	4000	36	4750	130	DALI	120	595	595	220-240
0047787	START Panel IP54 UGR19 600x600 4300lm 840 DALI	4000	36	4300	115	DALI	90	595	595	220-240

## Additional images

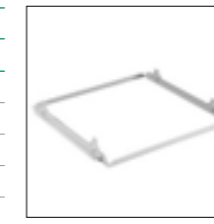


# START Panel IP54

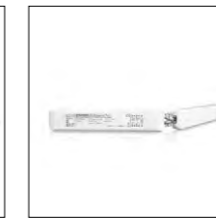


Code	Description
<b>Accessories</b>	
0047197	Surface Mounting Kit 600x600x70mm
0047416	Plasterboard Frame 600X600
0046602	Emergency Pack Manual Test 50V-200V
0046603	Emergency Pack Self Test/DALI 50V-200V

Please check the accessory compatibility on the website



0047197

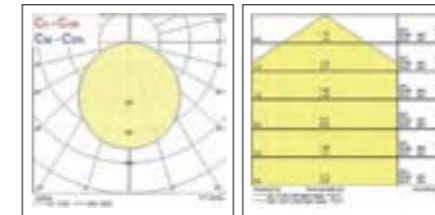


0046602/0046603



0047416

## Photometric data

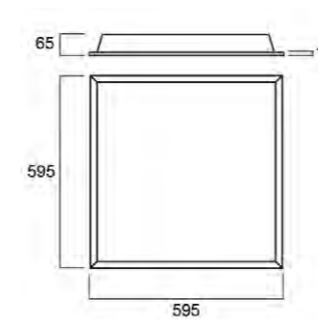


Standard Version



UGR Version

## Dimensions (mm)



600 x 600mm module

## Multipower: dip switch function

1	2	3	Io [mA]	P [W]	0047990 0047994	0047991 0047995	0047992 0047996	0047993 0047997
●	○	○			[lm]	[lm]	[lm]	[lm]
●	●	●	165	36	4900	-	4350	-
●	●	○	165	35	-	5100	-	4450
●	○	○	150	32	4400	4650	3850	4100
●	○	○	135	29	4000	4200	3500	3700
●	○	○	120	26	-	3750	-	3350
○	○	○	120	25	3450	-	3050	-
○	○	○	110	23	3250	-	2850	-
○	○	○	110	22	-	3200	-	2850
○	○	○	90	19	2700	2750	2375	2450
○	○	○	75	16	2250	2275	1975	2025
○	○	○	60	13	1725	1825	1500	1625



# START Panel UGR19 IP65



## Features

- Meets IP65 degree of protection (both front and back - able to protect against water jets) and IK03 degree of impact resistance
- The range includes 600x600mm and 1200x300mm modules to meet the most common installation needs
- Prismatic diffuser for low glare and low UGR 19 value
- CRI90 version for true colours
- Polystyrene (PS) diffuser material can be cleaned without issues with H2O2 (Hydrogen Peroxide) which is usually used for decontamination in hospitals and labs
- Tested against Chlorinated Alkali liquid cleaner
- Slim size of 34mm
- DALI dimmable version to adjust the light to the right level that is needed for a specific task
- Available in Neutral White (4000K)
- High efficacy up to 122lm/W (600x600 / 625x625 4000K CRI80)
- Tp(b) rated diffuser that may not burn at a speed of more than 50mm per minute
- Loop-in-Loop-out (LILO) box added as an option for easy installation
- Safety cables (2 pieces) as additional parts in the package
- SDCM <3
- Long lifespan: 100.000 hours at 70% of the original output

## Product information

Code	Description	Correlated Colour Temperature (K)	Total power consumption (W)	Fixture lumen (lm)	Luminaire efficacy (lm/W)	Dimming Method	Nominal Product Height (mm)	Nominal Product Length (mm)	Nominal Product Width (mm)	Mains voltage (V)
<b>START Panel IP65</b>										
<b>CRI90 600x600</b>										
0042692	START Panel IP65 UGR19 600x600 4400lm 940 WH	4000	44	4400	100	NON-DIM	34	595	595	220-240
0042694	START Panel IP65 UGR19 600x600 4400lm 940 DALI WH	4000	45	4400	98	DALI	34	595	595	220-240
<b>CRI80 600x600</b>										
0042691	START Panel IP65 UGR19 600x600 4400lm 840 WH	4000	36	4400	122	NON-DIM	34	595	595	220-240
0042693	START Panel IP65 UGR19 600x600 4400lm 840 DALI WH	4000	37	4400	119	DALI	34	595	595	220-240
<b>CRI90 1200x300</b>										
0042696	START Panel IP65 UGR19 1200x300 4300lm 940 WH	4000	44	4300	98	NON-DIM	34	1195	295	220-240
0042698	START Panel IP65 UGR19 1200x300 4300lm 940 DALI WH	4000	45	4300	96	DALI	34	1195	295	220-240
<b>CRI80 1200x300</b>										
0042695	START Panel IP65 UGR19 1200x300 4300lm 840 WH	4000	36	4300	119	NON-DIM	34	1195	295	220-240
0042697	START Panel IP65 UGR19 1200x300 4300lm 840 DALI WH	4000	37	4300	116	DALI	34	1195	295	220-240

Please always check item availability with your sales contact. Some of the items could be available only upon request with a minimum quantity order

## Accessories

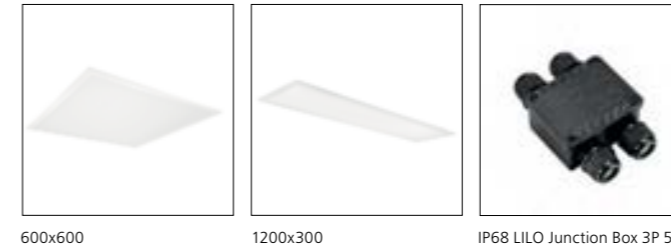
Code	Description
0047472	IP68 LILO Junction Box 3P 5P



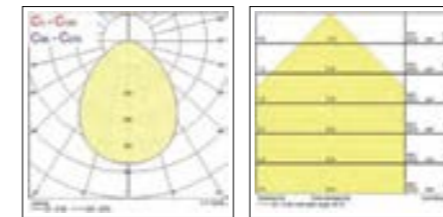
# START Panel UGR19 IP65



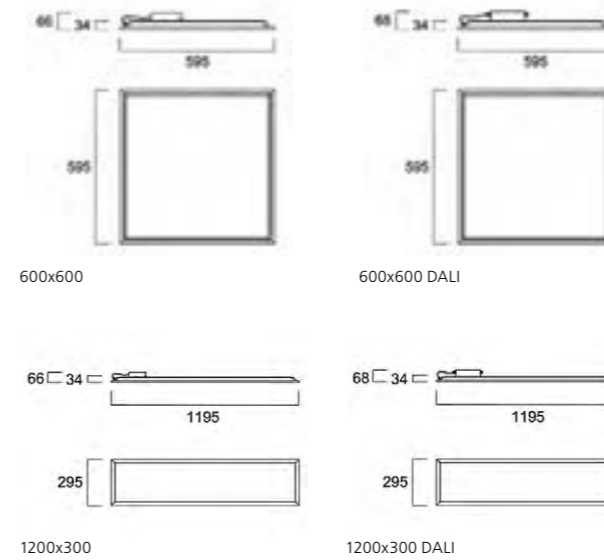
## Additional Images



## Photometric data



## Dimensions (mm)



**SYLVANIA**



## Unique design, comfort light & customised light levels

### Quadro

Quadro is a unique range of recessed architectural panels with low glare of  $UGR < 16$ , suitable for lighting applications where comfort light is extremely important. Quadro is ideal for offices, technical departments, meeting rooms, classrooms and other general indoor lighting applications.

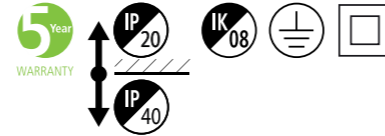
Its peerless design creates a particular setting while it performs high efficacy up to 150lm/W.

The range features multipower functionality where the luminous flux of the luminaire can be tailored to local needs during installation by only setting a quick selector switch.

The range includes 600x600, 1200x300 mm modules: Multipower, DALI and SylSmart Standalone enabled versions available for additional comfort and energy saving.



# Quadro



## Features

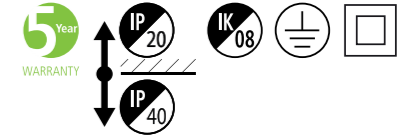
- Its stylish design makes it a unique proposition on the market
- Slim design with width of 18 mm makes it perfect for shallow ceiling voids
- Meets IK08 and IP40 (from the front) requirements
- Available in 600x600, 1200x300 mm modules
- Loop in-Loop out facility with push fit terminal block for quick wiring
- Surface mounted and pendant installation are also possible with selected accessories
- High performance: delivers up to 4650 lumen output (4000K), and up to 150lm/W (luminaire efficacy on Multipower, 15W, 4000K)
- Adjustable lumen output with multipower driver design ranging from 15-34W and 2250-4650lm (4000K) with 8 settings to meet all installation needs with one single product
- Delivers comfort light with low UGR level less than 16
- DALI and SylSmart Standalone (SSC) enabled versions available
- Available in Warm White (3000K) and Neutral White (4000K)
- MacAdam step ellipses selection Step 3 (SDCM 3)
- Long lifespan: 77,000 hours life at 80% of the original output L80B20

## Product information

Code	Description	Housing Colour (RAL)	Colour Temperature (K)	Total power consumption (W)	Fixture lumen (lm)	Max. Luminaire efficacy (lm/W)	Dimming Method	Nominal Product Length (mm)	Nominal Product Width (mm)	Mains voltage (V)
<b>600x600mm</b>										
0047251	Quadro UGR16 600x600 Multipower 2050-4500lm 830	9003 - Signal white	3000	15-34	2050-4500	140	non dimmable	595	595	220-240
0047250	Quadro UGR16 600x600 Multipower 2250-4650lm 840	9003 - Signal white	4000	15-34	2250-4650	150	non dimmable	595	595	220-240
0047253	Quadro UGR16 600x600 DALI 4450lm 830	9003 - Signal white	3000	36	4450	124	DALI	595	595	220-240
0047252	Quadro UGR16 600x600 DALI 4600lm 840	9003 - Signal white	4000	36	4600	128	DALI	595	595	220-240
0047026	Quadro UGR16 600x600 4450lm 830 SSC	9003 - Signal white	3000	36	4450	124	SylSmart SSC	595	595	220-240
0047027	Quadro UGR16 600x600 4600lm 840 SSC	9003 - Signal white	4000	36	4600	128	SylSmart SSC	595	595	220-240
<b>1200x300mm</b>										
0047127	Quadro UGR16 1200x300 Multipower 4650lm 840	9003 - Signal white	4000	15-34	2250-4650	150	non dimmable	1195	295	220-240
0047128	Quadro UGR16 1200x300 DALI 4450lm 830	9003 - Signal white	3000	36	4450	124	DALI	1195	295	220-240
0047129	Quadro UGR16 1200x300 DALI 4600lm 840	9003 - Signal white	4000	36	4600	128	DALI	1195	295	220-240
0047130	Quadro UGR16 1200x300 4450lm 830 SSC	9003 - Signal white	3000	36	4450	124	SylSmart SSC	1195	295	220-240
0047131	Quadro UGR16 1200x300 4600lm 840 SSC	9003 - Signal white	4000	36	4600	128	SylSmart SSC	1195	295	220-240

Please always check item availability with your sales contact. Some of the items could be available only upon request with a minimum quantity order

# Quadro

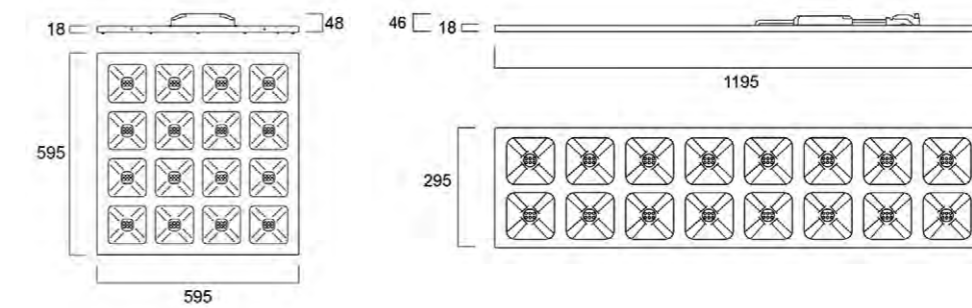


Code	Description
<b>Accessories</b>	
0047517	Suspension kit
0047197	Surface Mounting Kit 600x600x70mm
0047198	Surface Mounting Kit 1200x300x70mm
0047416	Plasterboard frame 600X600
0047418	Plasterboard frame 1200x300
0046602	Emergency Pack Manual Test 50V-200V
0046603	Emergency Pack Self test / DALI 50V-200V

Please check accessory compatibility on the website

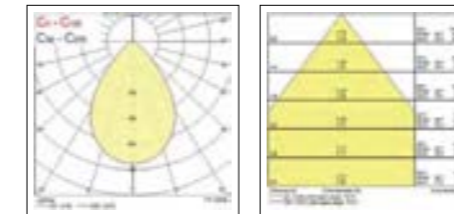


## Dimensions (mm)



## Photometric Data

0047250 - Quadro UGR16 600x600 Multipower 2250-4650lm 840



## Additional Images



Quadro 600x600mm with DALI driver

Quadro with Multipower driver

Quadro 1200x300mm

## Dip Switch Function

ON			P [W]	4000K [lm]	3000K [lm]
1	2	3			
●	●	●	34	4650	4500
●	●	○	32	4500	4300
●	○	●	30	4250	4000
●	○	○	27	3950	3700
○	●	●	24	3500	3300
○	●	○	21	3150	2950
○	○	●	18	2650	2450
○	○	○	15	2250	2050

**SYLVANIA**



## Less maintenance, more performance

### **START** Downlight IP44



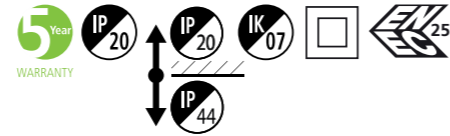
The START Downlight IP44 range is designed as an ideal replacement for compact fluorescent light (CFL) luminaires ranging from 90mm to 225mm cut outs. With an IP44 rating from the front of the fixture, the range is perfect for applications such as corridors, bathrooms, receptions and back of house areas.

The START Downlight delivers impressive performance with efficacy up to 113lm/W (90mm, 4000K version) and high lumen

output of up to 2325lm (225mm, 4000K version). With a 50,000 hour lifetime and 5 year warranty the START Downlight IP44 comes with the benefit of less maintenance. Additionally, the inclusion of a loop-in and loop-out facility and recess depth of less than 65mm provides a simple yet effective solution.

The START Downlight is available in recessed and surface mounted versions to meet all installation requirements.

# START Downlight IP44



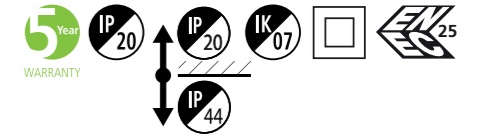
## Features

- A range of LED downlights perfect for corridors, bathrooms, receptions and back of house areas
- High efficacy of up to 113lm/W
- High lumen packages of up to 2325lm for 225mm cut-outs
- IP44 rating allows for installation in applicable wet zone areas (Surface mounted version IP20)
- Push dim DALI, 1-10V and phase dim options available
- Incorporated with innovative SylSmart lighting control technology - SylSmart Standalone - fully wireless, easy to install and program solution for meeting rooms, small offices and classrooms
- Shallow recess depth of < 65mm
- Surface mounted height of 94mm
- 3 hour emergency pack available
- CRI80 and CRI90 options
- Loop in - loop out facility with push fit terminal block for quick wiring
- White bezel (RAL9003)
- 3000K Warm White and 4000K Neutral White options
- MacAdam Ellipse: 3
- Voltage: 220-240V
- Housing colour/bezel: White - RAL9003
- Construction material: Aluminium
- Photobiological Risk Group: 0
- Lifespan 74,000Hrs (L80B20)

## Product information

Code	Description	Finish	Fixture Power (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Nominal Beam Angle (°)	Correlated Colour Temperature (K)	CRI	Dimmable	Control Technology Type
<b>Phase dimmable</b>										
0030379	START Downlight 90 IP44 830Lm 830 DIM	White	7.8	830	106	74	3000	80	Yes	Phase dim
0030380	START Downlight 90 IP44 880Lm 840 DIM	White	7.8	880	113	74	4000	80	Yes	Phase dim
<b>Non-dimmable</b>										
0030324	START Downlight 150 IP44 1100lm 830	White	12	1100	92	74	3000	80	No	Switched
0030325	START Downlight 150 IP44 1175lm 840	White	12	1175	98	74	4000	80	No	Switched
0030326	START Downlight 175 IP44 1425lm 830	White	15	1425	95	74	3000	80	No	Switched
0030327	START Downlight 175 IP44 1525lm 840	White	15	1525	102	74	4000	80	No	Switched
0030328	START Downlight 205 IP44 1950lm 830	White	20	1950	98	74	3000	80	No	Switched
0030329	START Downlight 205 IP44 2025lm 840	White	20	2025	101	74	4000	80	No	Switched
0030330	START Downlight 225 IP44 2275lm 830	White	23	2275	99	74	3000	80	No	Switched
0030331	START Downlight 225 IP44 2325lm 840	White	23	2325	101	74	4000	80	No	Switched
0030433	START Downlight 150 IP44 1075lm 940	White	13	1075	83	80	4000	90	No	Switched
0030435	START Downlight 205 IP44 1750lm 940	White	20	1750	88	80	4000	90	No	Switched
<b>DALI dimmable</b>										
0030332	START Downlight 150 IP44 DALI 1150Lm 830	White	12	1150	96	74	3000	80	Yes	DALI
0030333	START Downlight 150 IP44 DALI 1160Lm 840	White	12	1160	97	74	4000	80	Yes	DALI
0030334	START Downlight 175 IP44 DALI 1400Lm 830	White	15	1400	93	74	3000	80	Yes	DALI
0030335	START Downlight 175 IP44 DALI 1475Lm 840	White	15	1475	98	74	4000	80	Yes	DALI
0030336	START Downlight 205 IP44 DALI 1950Lm 830	White	20	1950	98	74	3000	80	Yes	DALI
0030337	START Downlight 205 IP44 DALI 2000Lm 840	White	20	2000	100	74	4000	80	Yes	DALI
0030338	START Downlight 225 IP44 DALI 2325Lm 830	White	23	2325	101	74	3000	80	Yes	DALI
0030339	START Downlight 225 IP44 DALI 2350Lm 840	White	23	2350	102	74	4000	80	Yes	DALI
<b>1-10V dimmable</b>										
0030341	START Downlight 150 IP44 1-10V 1175Lm 840	White	12	1175	98	74	4000	80	Yes	1-10V
0030342	START Downlight 175 IP44 1-10V 1400Lm 830	White	15	1400	93	74	3000	80	Yes	1-10V
0030343	START Downlight 175 IP44 1-10V 1425Lm 840	White	15	1425	95	74	4000	80	Yes	1-10V
0030344	START Downlight 205 IP44 1-10V 1950Lm 830	White	20	1950	98	74	3000	80	Yes	1-10V
0030345	START Downlight 205 IP44 1-10V 1975Lm 840	White	20	1975	99	74	4000	80	Yes	1-10V
0030346	START Downlight 225 IP44 1-10V 2325Lm 830	White	23	2325	101	74	3000	80	Yes	1-10V
0030347	START Downlight 225 IP44 1-10V 2350Lm 840	White	23	2350	102	74	4000	80	Yes	1-10V
<b>SylSmart</b>										
0030375	START Downlight 205 IP44 SSC01 1950LM 830	White	20	1950	98	74	3000	80	Yes	Sylsmart
0030376	START Downlight 205 IP44 SSC01 2025LM 840	White	20	2025	101	74	4000	80	Yes	Sylsmart
<b>Surface mounted Non-dimmable</b>										
0030445	START Downlight 165 1175lm 840 Surface	White	12	1175	98	74	4000	80	No	Switched
0030447	START Downlight 220 2025lm 840 Surface	White	20	2025	101	74	4000	80	No	Switched

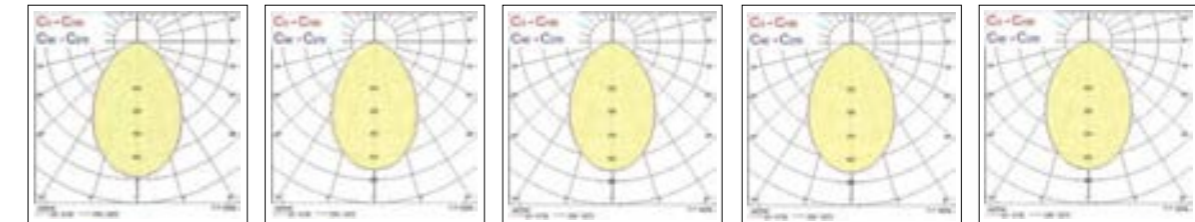
# START Downlight IP44



## Accessories

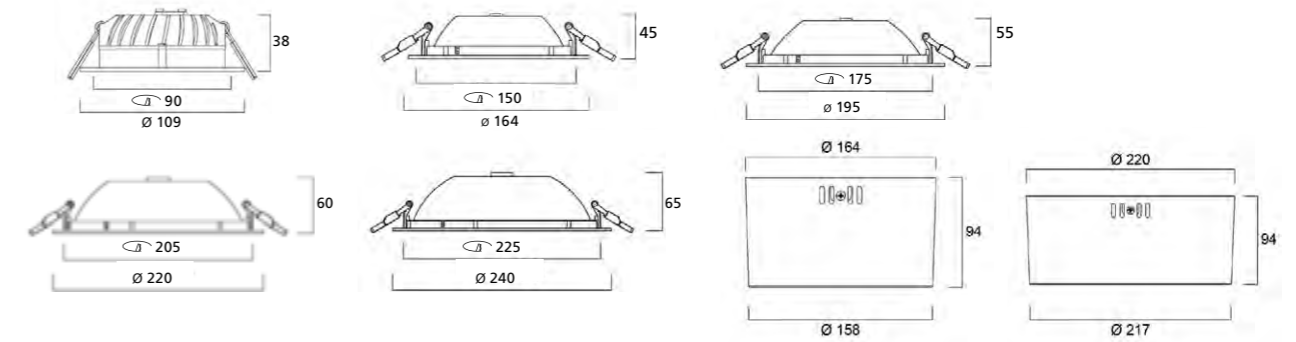
Code	Description
0046600	Emergency Pack Manual Testing 6V-55V
0046601	Emergency Pack Self Test/DALI monitoring 6V-55V
3007950	Recess Box Large (545x300x150)
3007940	Recess Box Small (300x300x150)

## Photometric Data



START Downlight 90 IP44 830lm 830 DIM    START Downlight 150 IP44 1100lm 830    START Downlight 175 IP44 1425lm 830    START Downlight 205 IP44 1950lm 830    START Downlight 225 IP44 2275lm 830

## Dimensions (mm)



## Additional Images



START Downlight 90 IP44 DIM Front    START Downlight IP44 Front & Side    START Downlight IP44 Front    START Downlight IP44    START Downlight 165 Surface    START Downlight 220 Surface

**SYLVANIA**



## Flexible cut-out solution with adjustable colours

### **START** Downlight 5in1

The START Downlight 5in1 family is the perfect solution for replacement of traditional compact fluorescent light (CFL) downlights or for installation in new builds.

The range is available in round (3 diameter sizes) versions with lumen outputs from 600lm up to 2300lm. Thanks to its super-functional adjustable bracket, START Downlight 5in1 can be adapted to fit many different cut-out sizes (50mm-125mm, 65mm-185mm, 65mm-260mm).

In addition, START Downlight 5in1 has also been designed to be easily surface mounted or recessed onto a ceiling. Colour temperature (3000K, 4000K and 6500K) can also be adjusted at the end of installation by a 3-way switch located on the back of the luminaire.

The clever adaptability to various cut-outs, surface-mount and three colour temperature options enables retailers to make a reduction in stock of other luminaires.

Brushed chrome and black bezels are available as an optional accessory and can be attached to the product in a few seconds, thanks to the twist and lock mechanism.

The efficacy of up to 100lm/W brings significant energy savings compared to traditional CFL technology.

START Downlight 5in1 is a well thought-out solution with multi-fit flexibility and the convenience of colour temperature adjustment.



# START Downlight 5in1



## Features

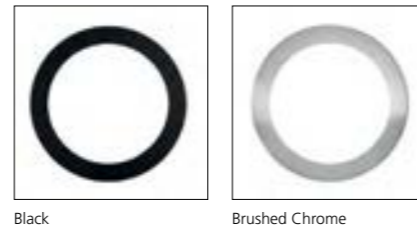
- A range of 5in1 non dimmable downlights with 3 colour temperature choice (3000K, 4000K and 6500K selected via a 3-way switch located on the back of the fixture) and 2 mounting methods (recessed or surface mounted)
- 3 sizes round of diameter of 165mm, 227mm, 290mm
- Multiple cut-out dimensions thanks to flexible brackets installed at the back of the fixture (cut-out can be adjusted from 50mm to 260mm depending on product size)
- A range of lumens from 600lm to 2300lm to meet the requirements for many household applications
- Efficacy of up to 100lm/W (23W 4000K model)
- PIR version available with adjustable lumens and daylight level and lumen levels (900-1800lm)
- High-quality construction - includes PC material with aluminium heat spreader, PC diffuser and white bezel (RAL 9003)
- Brushed chrome and black bezels are available as an accessory and can be attached to the product thanks to the twist and lock mechanism
- Loop-in/Loop-out box included for ease of installation

## Product information

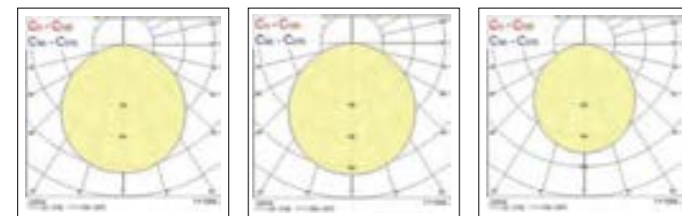
Code	Description	Finish	System Power Consumption (W)	Fixture lumen (lm)	Efficacy (lm/W)	Colour Temperature (K)	CRI	Dimmable	Control Technology
<b>START Downlight 5in1</b>									
Non Dimmable									
0053147	START Downlight 5in1 50-125 600lm	White	6	600	100	3000-4000-6500	80	No	Switched
0053148	START Downlight 5in1 50-125 1150lm	White	12	1150	96	3000-4000-6500	80	No	Switched
0053149	START Downlight 5in1 65-185 17500lm	White	18	1750	97	3000-4000-6500	80	No	Switched
0053150	START Downlight 5in1 65-260 1800lm	White	18	1800	100	3000-4000-6500	80	No	Switched
0053151	START Downlight 5in1 65-260 2300lm	White	23	2300	100	3000-4000-6500	80	No	Switched
PIR									
0053152	START Downlight 5in1 65-185 1800lm PIR	White	18	1800	100	3000-4000-6500	80	No	Switched

## Accessories

Code	Description	Dia Product(mm)	Compatible with
0053153	Brushed Chrome Bezel 176	176	0053147, 0053148
0053154	Brushed Chrome Bezel 228	228	0053149
0053155	Brushed Chrome Bezel 301	301	0053150, 0053151
0053156	Black Bezel 176	176	0053147, 0053148
0053157	Black Bezel 228	228	0053149
0053158	Black Bezel 301	301	0053150, 0053151



## Photometric Data



0053148

0053149

0053151

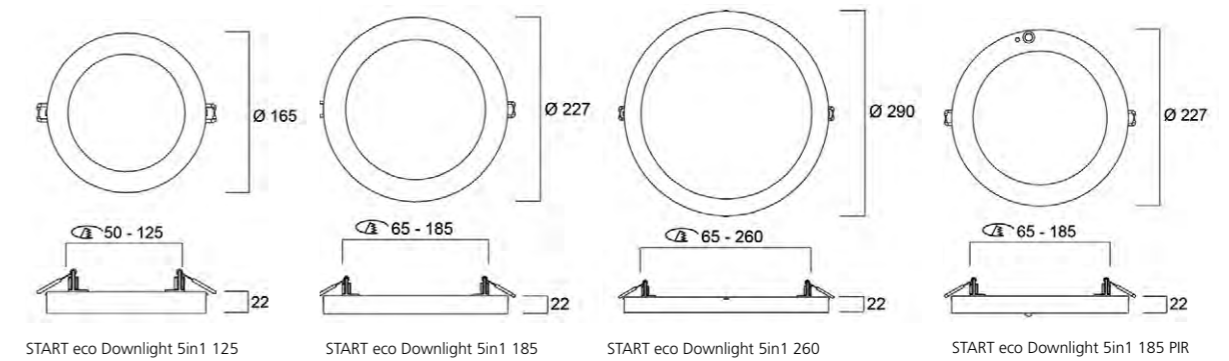
# START Downlight 5in1



## Additional Images



## Dimensions (mm)



START eco Downlight 5in1 125

START eco Downlight 5in1 185

START eco Downlight 5in1 260

START eco Downlight 5in1 185 PIR

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## Flexible solution, good performance

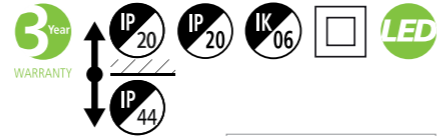
**START** eco Downlight Flat IP44 Dimmable



The START eco Downlight Flat IP44 Dimmable family provides the perfect integrated LED solution for the replacement of traditional compact fluorescent light (CFL) downlights. The range is available in a round body and in recessed and surface mounted versions providing flexibility for different installation areas.



# START eco Downlight Flat IP44 Dimmable



## Features

- Available in 12W, 17W and 24W recessed or 17W in surface mounted version
- Ideal for applications such as corridors, back of house areas and any locations that require long service hours and high switching
- A very slim design of recess depth of 21mm makes it perfect for shallow void ceilings
- IP44 from the front for recessed versions makes it ideal for bathroom application
- Achieve up to 60% extra energy savings with dimmable function
- Available in round body with a remote phase dimmable driver
- Quick and easy to install with the inclusion of a loop in - loop out box
- Cost effective product - will help you comply with Building regulations - up to 103lm/W (round 1750lm 4000K version)
- Slim design:
  - Recessed depth as low as <21mm
  - Surfaced mounted height of 38mm
- 3000K Warm White and 4000K Neutral White
- MacAdam Ellipse: 6
- Voltage: 220-240V
- Construction material: Aluminium, Steel
- Photobiological Risk Group : 0



START eco Downlight Flat surface mounted round



START eco Downlight Flat recessed round

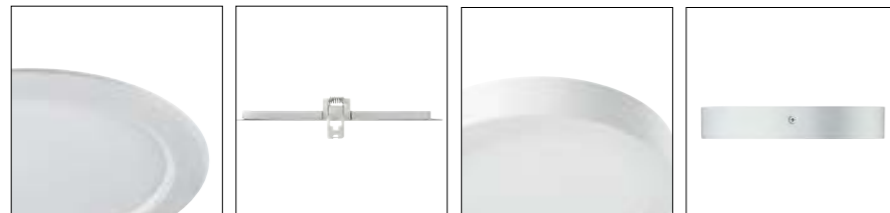
## Product information

Code	Description	Finish	Fixture Power (W)	Luminous Flux (lm)	Efficacy (lm/W)	Beam Angle (°)	Colour Temperature (K)	CRI	Dimmable	Control Technology	Average Rated Life (Hrs)
<b>Recessed</b>											
3000K											
0053937	START eco Downlight Flat 155 IP44 1000lm 830 DIM	White	12	1000	83	110	3000	80	Yes	Phase DIM	30,000
0053939	START eco Downlight Flat 206 Square IP44 1650lm 830 DIM	White	17	1650	97	110	3000	80	Yes	Phase DIM	30,000
0053940	START eco Downlight Flat 205 IP44 2200lm 830 DIM	White	24	2200	92	110	3000	80	Yes	Phase DIM	30,000
4000K											
0053941	START eco Downlight Flat 155 IP44 1100lm 840 DIM	White	12	1100	92	110	4000	80	Yes	Phase DIM	30,000
0053942	START eco Downlight Flat 205 IP44 1750lm 840 DIM	White	17	1750	103	110	4000	80	Yes	Phase DIM	30,000
0053944	START eco Downlight Flat 205 IP44 2250lm 840 DIM	White	24	2250	94	110	4000	80	Yes	Phase DIM	30,000
Code	Description	Finish	Fixture Power (W)	Luminous Flux (lm)	Efficacy (lm/W)	Beam Angle (°)	Colour Temperature (K)	CRI	Dimmable	Control Technology	Average Rated Life (Hrs)
<b>Surface mounted</b>											
3000K											
0053946	START eco Downlight Flat 226 1700lm 830 DIM Surface	White	17	1700	100	110	3000	80	Yes	Phase DIM	30,000
4000K											
0053948	START eco Downlight Flat 226 1750lm 840 DIM Surface	White	17	1750	103	110	4000	80	Yes	Phase DIM	30,000

## Accessories

Code	Description
0046600	Emergency Pack Standard 6V-55V

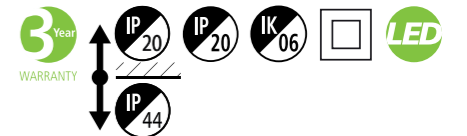
## Additional Images



START eco Downlight Flat recessed dimmable round

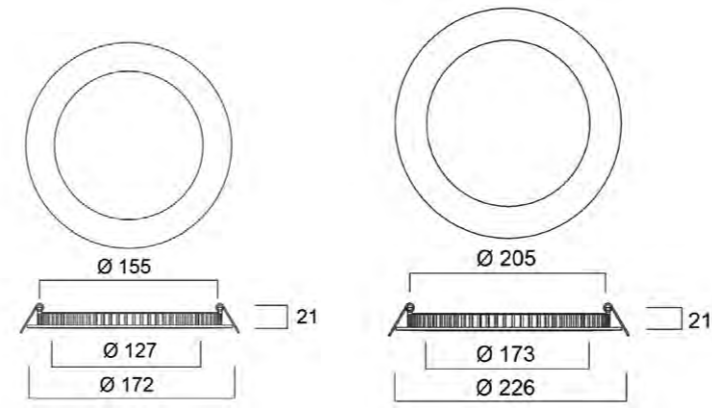
START eco Downlight Flat surface mounted dimmable round

# START eco Downlight Flat IP44 Dimmable



## Dimensions (mm)

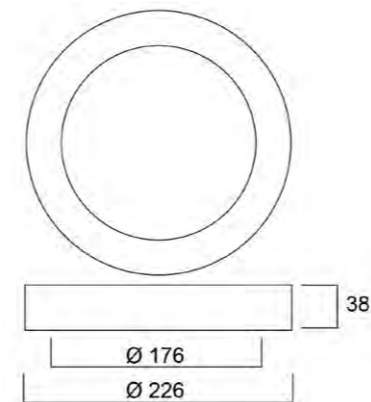
### START eco Downlight Flat IP44 Dimmable recessed



START eco Downlight Flat 155

START eco Downlight Flat 205

### START eco Downlight Flat IP44 Dimmable surface mounted



START eco Downlight Flat 226

## Photometric data



Start eco Downlight IP44 flat round

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## Good performance, no fuss

### **START** eco Downlight

The START eco Downlight is a non dimmable family of downlights that provides the perfect integrated LED solution for the replacement of traditional compact fluorescent light (CFL) downlights.

The range is available in both round and square bodies and in recessed and surface mounted versions providing flexibility for different application areas.



# START eco Downlight



## Features

- Available in 8W, 12W, 15W & 24W, recessed and surface mounted versions
- Ideal for applications such as corridors, back of house and any locations that require long service hours
- Available in round or square form with integrated, non dimmable driver
- Back lit LED design and opal diffuser provides uniform light distribution
- Choice of 3000K (Warm White) or 4000K (Neutral White)
- Slim design: recessed depth as low as <38mm, surface mounted height of 45mm
- MacAdam Ellipse: 6
- Voltage: 220-240V
- Housing colour/bezel: White-RAL9003
- Construction material: PC Polycarbonate
- Photobiological Risk Group: 0



START eco Downlight recessed round



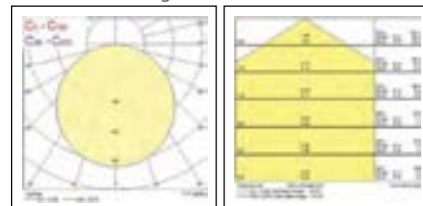
START eco Downlight recessed square

## Product information

Code	Description	Finish	Fixture Power (W)	Luminous Flux (lm)	Efficacy (lm/W)	Beam Angle (°)	Colour Temp (K)	CRI	Dimmable	Control Technology	Average Rated Life (Hrs)
<b>START eco Downlight - Recessed</b>											
3000K											
0053910	START eco Downlight 95 640lm 830	White	8	640	80	110	3000	80	No	Switched	30,000
0053911	START eco Downlight 145 950lm 830	White	12	950	79	110	3000	80	No	Switched	30,000
0053912	START eco Downlight 195 1250lm 830	White	15	1250	83	110	3000	80	No	Switched	30,000
0053913	START eco Downlight 195 2100lm 830	White	24	2100	88	110	3000	80	No	Switched	30,000
0053924	START eco Downlight 195 Square 1400lm 830	White	15	1400	93	110	3000	80	No	Switched	30,000
4000K											
0053914	START eco Downlight 95 640lm 840	White	8	640	80	110	4000	80	No	Switched	30,000
0053915	START eco Downlight 145 950lm 840	White	12	950	79	110	4000	80	No	Switched	30,000
0053916	START eco Downlight 195 1250lm 840	White	15	1250	83	110	4000	80	No	Switched	30,000
0053917	START eco Downlight 195 2100lm 840	White	24	2100	88	110	4000	80	No	Switched	30,000
0053927	START eco Downlight 195 Square 1400lm 840	White	15	1400	93	110	4000	80	No	Switched	30,000
<b>START eco Downlight - Surface Mounted</b>											
3000K											
0054103	START eco Downlight 165 950lm 830 Surface	White	12	950	79	110	3000	80	No	Switched	30,000
0054104	START eco Downlight 215 1250lm 830 Surface	White	15	1250	83	110	3000	80	No	Switched	30,000
0054105	START eco Downlight 215 2100lm 830 Surface	White	24	2100	88	110	3000	80	No	Switched	30,000
0054113	START eco Downlight 215 Square 1400lm 830 Surface	White	15	1400	93	110	3000	80	No	Switched	30,000
4000K											
0054106	START eco Downlight 165 950lm 840 Surface	White	12	950	79	110	4000	80	No	Switched	30,000
0054107	START eco Downlight 215 1250lm 840 Surface	White	15	1250	83	110	4000	80	No	Switched	30,000
0054108	START eco Downlight 215 2100lm 840 Surface	White	24	2100	88	110	4000	80	No	Switched	30,000
0054115	START eco Downlight 215 Square 1400lm 840 Surface	White	15	1400	93	110	4000	80	No	Switched	30,000

## Photometric data

START eco Downlight round



START eco Downlight square



# START eco Downlight



## Additional Images

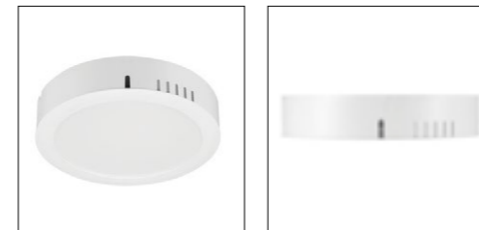
START eco Downlight recessed round



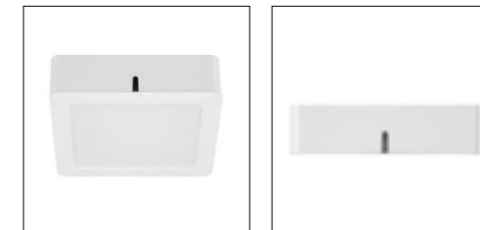
START eco Downlight recessed square



START eco Downlight surface mounted round

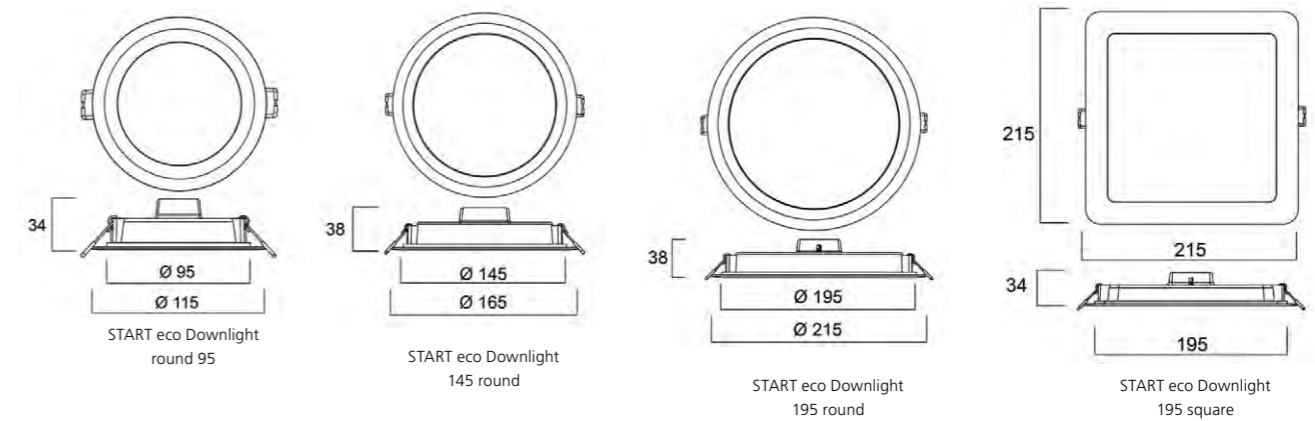


START eco Downlight surface mounted square

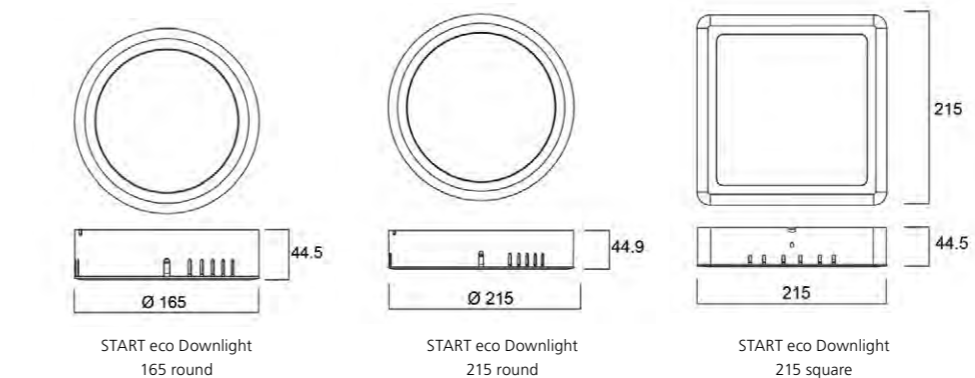


## Dimensions (mm)

### START eco Downlight recessed non dimmable



### START eco Downlight surface mounted



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## All-in-One Fire Rated Downlight

**START** Spot IP65 Fire

The START Spot IP65 Fire is an all-in-one recessed fire rated downlight providing multiple options in a single luminaire. With a simple flick of a switch located behind the removable bezel, the colour temperature can be selected as 3000K, 4000K or 6500K even after the product is installed in the ceiling. The downlight is fire rated for 30, 60, 90 minutes and IP65 protected as standard, making it suitable for all indoor environments and a wide range of living room, kitchen and bathroom applications.

The slim profile design makes it to be suitable for shallow ceiling voids. Compatible with trailing-edge and leading-edge dimmer switches, the downlight comes with a loop in – loop out wiring box for quick and simple installation. The product comes with white bezel or the non bezel version which can be matched with a wide range of bezels: Brushed Nickel, Polished Chrome, White, Brushed Brass and Matt Black.

# START Spot IP65 Fire



## Features

- All-in-one recessed fire rated downlight providing multiple options in a single luminaire for a variety of indoor applications
- Designed and tested to meet Fire Rating Standards (30, 60, 90-minute fire rated ceilings) for safety and reassurance: BS 476-21:1987
- Fire rated model tested for 30 & 60 minute I-Joist ceiling system (TRUfloorsystems® by Staircraft)
- Three selectable colour temperature options: 3000K, 4000K, 6500K
- Twist & lock bezel design, which allows easy access to the 3-way switch to control the colour temperature
- Comes with white bezel as standard and the non bezel model which can be matched with any of the following bezels: Brushed Nickel, Polished Chrome, White, Brushed Brass and Matt Black
- All bezels are slim, discrete and made of high quality aluminium
- Light output up to 540lm (4000K), efficiency up to 98lm/W
- Wide 60° beam angle
- Slim, low profile design suitable for shallow ceiling voids
- 70-75mm cut-out, with protected spring clips
- Integrated dimmable driver, suitable for use with trailing-edge and leading-edge dimmer switches (dimmer compatibility list is upon request)
- Loop in - loop out wiring box with secure strain relief for a quick and simple installation
- Lifespan: 30,000 hours at L70B50

## Product information

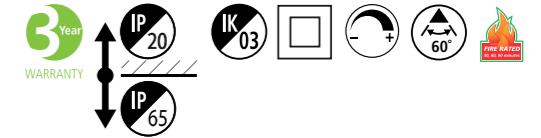
Code	Description	Finish	Fixture Power (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Colour Temperature (K) CRI	Dimmable	Control Technology
<b>Start Spot IP65 Fire</b>								
0059830	START Spot IP65 Fire 540lm 3CCT Fix WHT	White	5.5	540	98	3000-4000-6500 80	Yes	Phase dim
0059843	START Spot IP65 fire 540lm 3CCT No Bezel	No bezel	5.5	540	98	3000-4000-6500 80	Yes	Phase dim

### Accessories - additional bezel rings

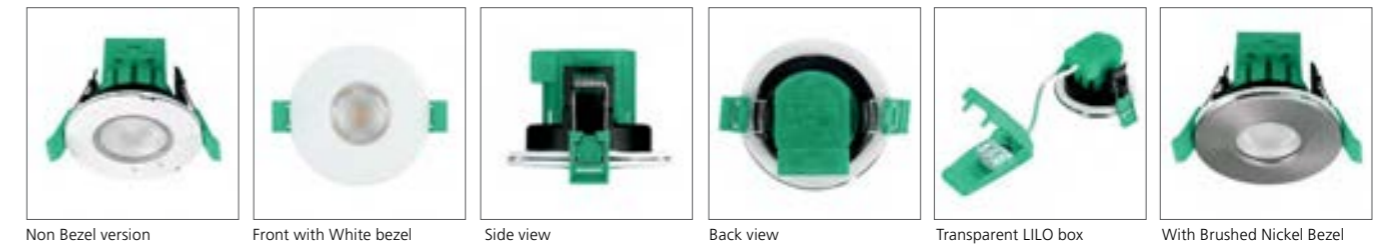
Code	Description
0059838	START Spot IP65 Fire bezel Brushed Nickel
0059839	START Spot IP65 Fire bezel Polished Chrome
0059840	START Spot IP65 Fire bezel White
0059841	START Spot IP65 Fire bezel Brushed Brass
0059842	START Spot IP65 Fire bezel Matt Black



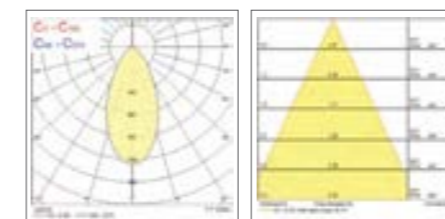
# START Spot IP65 Fire



## Additional Images

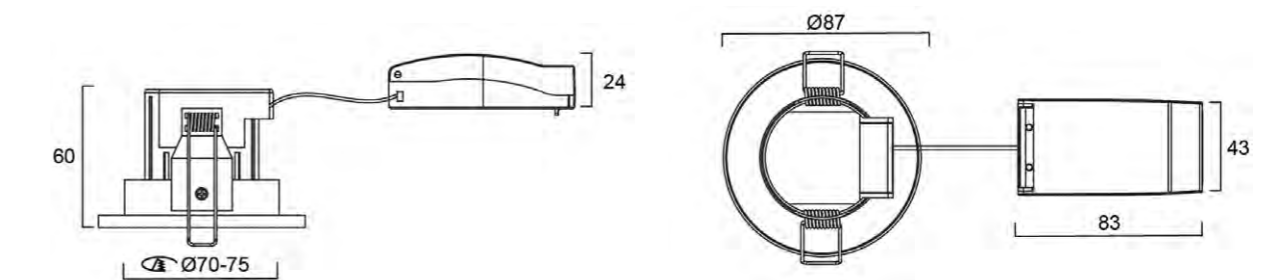


## Photometric Data



0059830/0059843

## Dimensions (mm)



**SYLVANIA**



## Gentle light, modern design

**START** Spot Aluminium

The START Spot Aluminium range combines high lumen efficacy with modern design and comfortable light. The range comes in both IP44 adjustable and IP65 fixed versions with 2700K, 3000K or 4000K light colour temperature options. White and black colour reflectors included in the packaging for IP44 version.

The START Spot Aluminium range has an integrated LED dimmable driver, polycarbonate and aluminium body, loop-in loop-out wiring and a low profile of 64mm making it ideal to fit into low ceiling voids.

# START Spot Aluminium IP44



## Features

- Integrated IP44 LED accent downlight with modern design and comfortable light
- Cut-out of 68-72mm, low profile of 64mm and loop-in/loop-out wiring
- White, black or or brushed aluminium bezel, adjustable +/- 30°
- White and black colour reflectors included in the packaging
- Dimmable as standard, leading edge/ trailing edge phase dimming
- Light output up to 800lm (4000K), efficacy up to 89lm/W
- Choice of 2700K (Homelight), 3000K (Warm white), 4000K (Neutral white)
- Lifespan: 47,000 hours at L70B50

## Product information

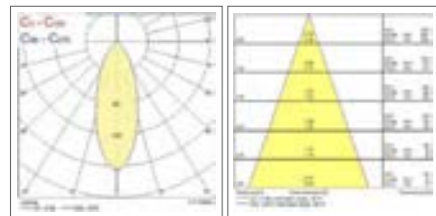
Code	Description	Finish	Fixture Power (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Colour Temperature (K)	CRI	Dimmable	Control Technology
<b>START Spot Aluminium IP44</b>									
0005183	START Spot Alu 740lm 827 IP44 WHT	White	9	740	82	2700	80	Phase dim	Switched
0005170	START Spot Alu 740lm 830 IP44 WHT	White	9	740	82	3000	80	Phase dim	Switched
0005171	START Spot Alu 800lm 840 IP44 WHT	White	9	800	89	4000	80	Phase dim	Switched
0005172	START Spot Alu 740lm 830 IP44 BRA	Brushed Aluminium	9	740	82	3000	80	Phase dim	Switched
0005173	START Spot Alu 800lm 840 IP44 BRA	Brushed Aluminium	9	800	89	4000	80	Phase dim	Switched
0005180	START Spot Alu 720lm 827 IP44 BLK	Black	9	720	80	2700	80	Phase dim	Switched
0005181	START Spot Alu 720lm 830 IP44 BLK	Black	9	720	80	3000	80	Phase dim	Switched
0005182	START Spot Alu 760lm 840 IP44 BLK	Black	9	760	84	4000	80	Phase dim	Switched

## Additional Images

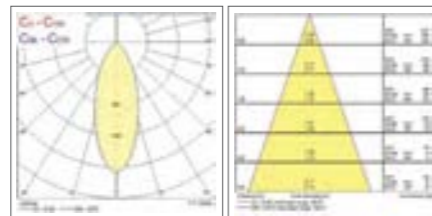


## Photometric Data

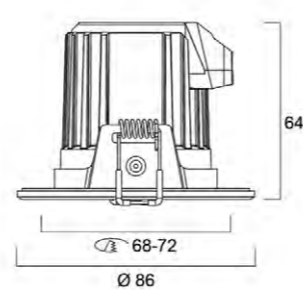
IP44 White



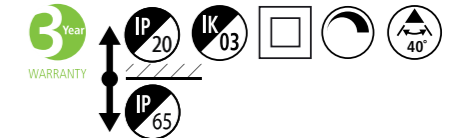
IP44 Black



## Dimensions (mm)



# START Spot Aluminium IP65



## Features

- Integrated IP65 LED accent downlight modern design and comfortable light
- Low profile of 64mm and loop-in/loop-out wiring
- Cut-out of 68-72mm allows direct replacement of most halogen spots installation on the market
- Fixed, white or brushed aluminium bezels
- Dimmable as standard, leading edge/ trailing edge phase dimming
- Light output up to 800lm (4000K), efficacy up to 89lm/W
- Choice of 3000K (Warm white), 4000K (Neutral white)
- Lifespan: 47,000 hours at L70B50

## Product information

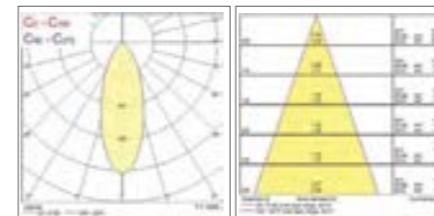
Code	Description	Finish	Fixture Power (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	Colour Temperature (K)	CRI	Dimmable	Control Technology
<b>START Spot Aluminium IP65</b>									
0005174	START Spot Alu 740lm 830 IP65 WHT	White	9	740	82	3000	80	Phase dim	Switched
0005175	START Spot Alu 800lm 840 IP65 WHT	White	9	800	89	4000	80	Phase dim	Switched
0005176	START Spot Alu 660lm 830 IP65 BRA	Brushed Aluminium	9	660	73	3000	80	Phase dim	Switched
0005177	START Spot Alu 760lm 840 IP65 BRA	Brushed Aluminium	9	760	84	4000	80	Phase dim	Switched

## Additional Images

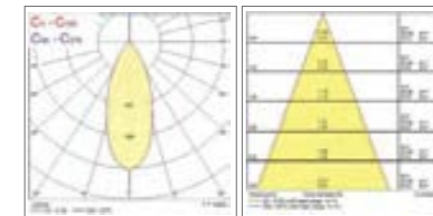


## Photometric Data

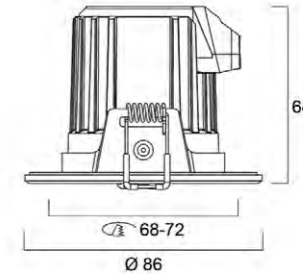
IP65 3000K White



IP65 3000K Black



## Dimensions (mm)



**SYLVANIA**



## Diverse options, high efficacy, one spotlight

### **START** Spot

The Start Spot range combines high lumen efficacy with outstanding value. The range comes in both IP44 adjustable and IP65 fixed versions. The products are equipped with 3CCT change switch which helps to choose the desired colour 2700K-3000K-4000K at the end of the installation.

The Start Spot range has an integrated LED driver, polycarbonate body and a low profile of max 47mm, making it ideal to fit into low ceiling voids.

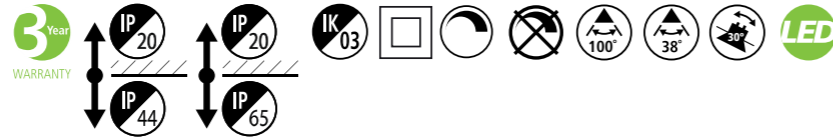
Start Spot IP44 is ideal for kitchens and living rooms with its 30° tilt option which allows you to place light exactly where you want it. The unique lens gives the product the highly desirable "halogen sparkle".

The IP65 Start Spot is ideal for bathrooms and suitable for zone 1 wet areas. The product is fixed and comes with an opal diffuser and a 100-degree beam angle.





# START Spot



## Features

- Integrated LED recessed spotlight with high lumen efficacy
- Low profile of 47mm and loop-in, loop-out wiring with fast terminals
- Additional silver and black bezel ring with fast snap-on mounting can be ordered as a separate accessory
- IP44 version available in tilt and with unique lens design, beam angle 38°
- IP65 version fixed with opal diffuser beam angle up to 100°
- Cut-out of 68-74mm allows direct replacement of most halogen spots installation on the market
- Non dimmable and dimmable versions with leading edge/trailing edge dimmers
- Light output up to 630lm, efficiency up to 104lm/W
- Low voltage version with separated driver, suitable for bathroom ceiling installation, zone 1 (< 30V DC). Includes accessory to cover with insulation material
- All versions are 3CCT, either 2700K-3000K-6500K or 3000K-4000K-6500K for LV version
- Lifespan > 50 000hrs L70B50

## Product information

Code	Description	Finish	Fixture Power (W)	Fixture lumen (lm)	Luminaire efficacy (lm/W)	Colour Temperature (K)	CRI	Dimmable	Control Technology
<b>START Spot</b>									
<b>Non-dimmable</b>									
0005564	START Spot 500LM 3CCT IP44 WH	White	4.8	500	104	2700/3000/4000	80	No	Switched
0005565	START Spot 610LM 3CCT IP65 WH	White	6	610	102	2700/3000/4000	80	No	Switched
<b>Dimmable</b>									
0005509	START Spot 550lm 3CCT DIM IP44 WH	White	5.5	550	100	2700/3000/4000	80	Yes	Phase dim
0005510	START Spot 620lm 3CCT DIM IP65 WH	White	6.5	620	95	2700/3000/4000	80	Yes	Phase dim
<b>Dimmable Low Voltage*</b>									
0005393	START Spot LV 630lm 3CCT DIM IP65 WH	White	7	630	90	3000/4000/6500	80	Yes	Phase dim

\*Luminaire can be covered with insulation

## Accessories

Code	Description
0005586	START Spot Bezel Silver 3x
0005587	START Spot Bezel Black 3x

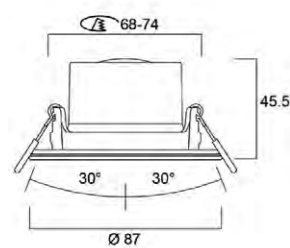


0005586

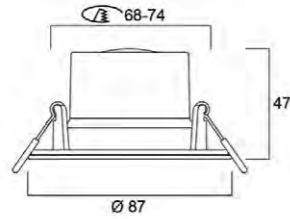


0005587

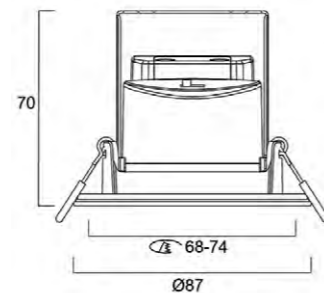
## Dimensions (mm)



START Spot IP44 3CCT

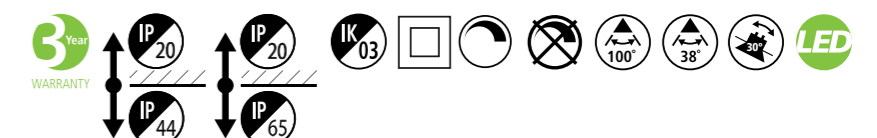


START Spot IP65 3CCT



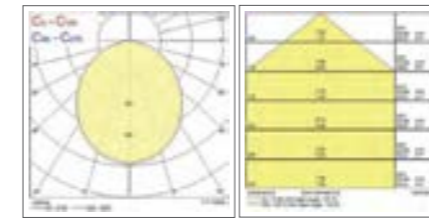
START Spot Low Voltage

# START Spot

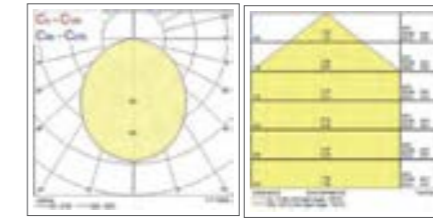


## Photometric Data

IP65 2700K (3CCT)



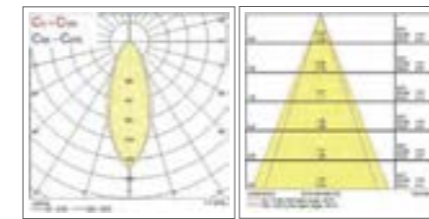
IP65 3000K (3CCT)



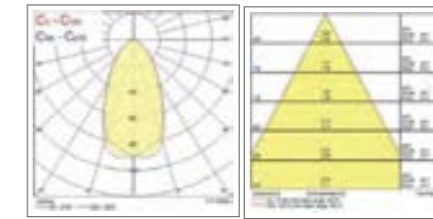
IP65 4000K (3CCT)



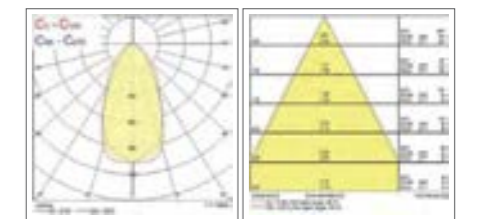
IP44 2700K (3CCT)



IP44 3000K (3CCT)



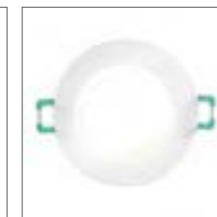
IP44 4000K (3CCT)



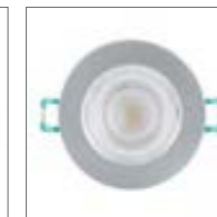
## Additional Images



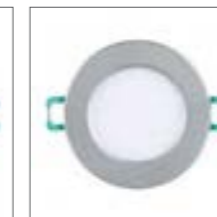
IP44 - White



IP65 - White



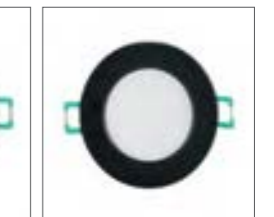
IP44 - Silver, with additional ring mounted



IP65 - Silver, with additional ring mounted



IP44 - Black, with additional ring mounted



IP65 - Black, with additional ring mounted



IP65, IP44 - CCT changing switch



IP65 - Low voltage version with independent driver



IP44 - White



IP44 - White



IP65, IP44 - White



IP65 - White

**SYLVANIA**



## Fire rated recessed spotlights designed for GU10 lamps

### SylFire GU10



SylFire GU10 is a complete range of compact, fire rated recessed spotlights. Available with a fixed or adjustable beam in two colour finishes. IP20 rated models for general use and IP65 rated for where water-resistance is required such as bathrooms. A unique twist & lock bezel allows easy access from the front to install and replace a compatible GU10 LED lamp of your choice. A loop-in, loop-out wiring box with secure strain relief is included to enable quick and easy installation.

SylFire is perfect for installation in many residential and commercial buildings. If over time, the space requires a different lumen output or colour temperature, then you can simply replace the GU10 LED lamp rather than the entire fitting, prolonging your investment. The range has been tested in 30, 60 and 90-minute fire rated ceilings and meets the appropriate standards (BS 476-21:1987)

# SylFire GU10



## Features

- Range of fire-rated downlights with no lamp included for flexible, upgradable light options
- Available in IP20 fixed beam, IP20 adjustable beam or IP65 water-resistant fixed beam – ideal for bathrooms.
- Designed and tested to meet Fire Rating Standards (30, 60, 90-minute fire rated ceilings) for safety and reassurance: BS 476-21:1987
- Tested and approved for 30 & 60 minute I-Joist ceiling system (TRUFloorsystems® by Staircraft)
- Unique twist & lock bezel allows easy access from the front to install and replace the lamp
- Loop-in, loop-out wiring box with secure strain relief included for quick and easy installation
- Cut-out 72mm (IP20 fixed, IP65)
- Cut-out 83mm (IP20 adjustable)
- Available in two bezel colour options; White or Satin Nickel
- GU10 LED lamp available separately, please ask your dealer to recommend suitable options

## Product information

Code	Description	Housing Colour	Nominal Product Diameter (mm)	Nominal Product Height (mm)	Cutout Dimensions (Diameter in mm)	IP rating	Max. LED GU10 lamp Wattage	Voltage (V)
<b>SylFire GU10 - White</b>								
0059776	SylFire GU10 IP20 Fixed WHT	RAL 9016 - White	86	122	72	IP20	12W	220-240
0059777	SylFire GU10 IP20 Adjustable WHT	RAL 9016 - White	96	120	83	IP20	12W	220-240
0059778	SylFire GU10 IP65 Fixed WHT	RAL 9016 - White	88	122	72	IP65/20	12W	220-240
<b>SylFire GU10 - Satin Nickel</b>								
0059779	SylFire GU10 IP20 Fixed STN	Satin Nickel	86	122	72	IP20	12W	220-240
0059780	SylFire GU10 IP20 Adjustable STN	Satin Nickel	96	120	83	IP20	12W	220-240
0059781	SylFire GU10 IP65 Fixed STN	Satin Nickel	88	122	72	IP65/20	12W	220-240

## Additional images



0059776 IP20 Fixed White    0059777 IP20 Adjustable White    0059778 IP65 Fixed White

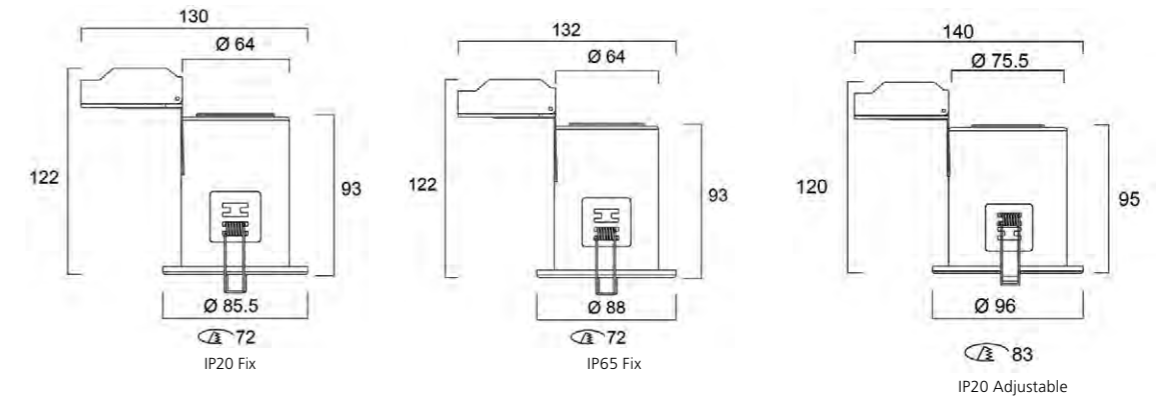


0059779 IP20 Fixed Satin Nickel    0059780 IP20 Adjustable Satin Nickel    0059781 IP65 Fixed Satin Nickel

# SylFire GU10



## Dimensions (mm)



**SYLVANIA**



## Easy installation and relamping

### **START** Spot Kit & Housing



A range of modern and compact spotlights with easy and fast lamp mounting from the front. A simple click (IP20) or twist & lock (IP44) to relamp. Ideal solution for multiple hospitality and residential applications such as receptions, corridors, restaurants and living areas. IP44 option can be used in bathrooms and indoor humid areas.

START Spot Kit comes with a high performance professionally dimmable LED GU10 spotlight with the same look and feel of a traditional halogen lamp. Lumen output up to 360lm with a lifetime of 25,000 hours,

5 years of warranty and COOLFIT functionality - ensures overheat and over-temperature protection.

START Spot Housing is recommended to use with any Sylvania LED GU10 spotlight depending on the requirements, up to 6.5W. The spot housing comes with a GU10 socket and it's available with a round frame and IP20 fixed, IP20 adjustable or IP44 adjustable versions. Choose from several finishes including white, black and brushed nickel.



# START Spot Kit



## Features

- A range of modern and compact spotlights with an easy and fast lamp mounting from the front. A simple click (IP44) to relamp
- Comes with a high performance professionally dimmable LED GU10 spot lamp with the same look and feel of a traditional halogen lamp
- Recreates backlight effect similar to that of halogen dichroic lamps
- Full glass design lamp - means no colours clashing between lamp and fixture
- COOLFIT functionality - ensures overheat and over temperature protection
- High switching cycles: >100,000
- High colour rendering: CRI80
- High performance: delivers up to 360lm and up to 80lm/W (total system efficiency)
- Available in Warm White (3000K) and Neutral White (4000K)
- Dimmable on approved dimmers
- Lifetime: 25,000 hours at 70% of the original output (L70)
- Energy class: A+



## Product information

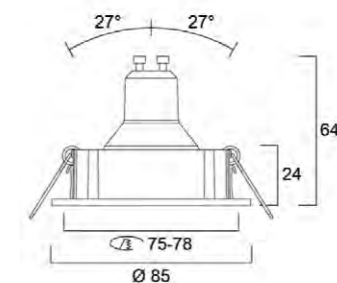
Code	Description	Fixture Colour	Colour Temperature (K)	Fixture lumen (lm)	Total power consumption (W)	Luminaire efficacy (lm/W)	Nominal Beam Angle (°)	Control Technology Type	Mains voltage (V)
<b>START Spot Kit</b>									
<b>START Spot Kit Round IP20</b>									
0005556	START Spot Kit R 345lm 830 Dim Adj IP20 WHT	White RAL9003	3000	345	4.5	77	36	Phase DIM	220-240
0005557	START Spot Kit R 360lm 840 Dim Adj IP20 WHT	White RAL9003	4000	360	4.5	80	36	Phase DIM	220-240

## Additional Image



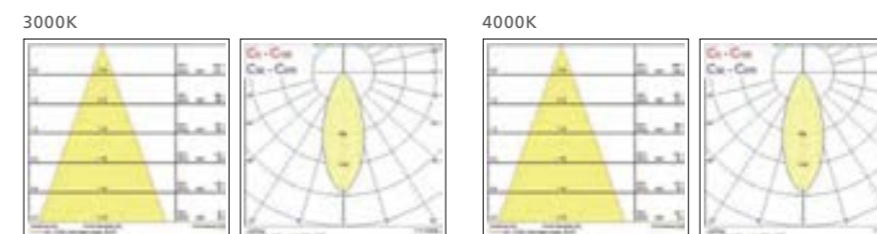
IP20 Round White

## Dimensions (mm)



START Spot Housing Round Adjustable IP20

## Photometric Data



**SYLVANIA**



## Customise your spotlight or choose ready-to-go

### SylSpot Kit & Housing



A range of modern and compact spotlights with quick and easy lamp mounting from the front - a simple twist & lock to change it! SylSpot features a high-quality synthetic surface designed to prevent dust collection and ensure long product life. The ideal solution for residential applications such as kitchens, living rooms, bedrooms and hallways.

SylSpot Kit comes with a high-performance, non-dimmable LED GU10 spotlight with a lumen output of 345lm that delivers good

colour rendering of CRI80. The lamp has a long 15,000 hour lifetime, with 50,000 on-off cycles and a 3 year warranty.

SylSpot Housing is recommended for use with any Sylvania LED GU10 spotlight depending on the requirements, up to 7.5W max. The spot housing comes with a round, adjustable bezel, available in a white, black or chrome finish. A GU10 socket with fast wiring terminal block is included.

# SylSpot Kit



## Features

- A range of modern and compact spotlights with a quick and easy lamp mounting from the front. Simply twist & lock to change it
- The special high-quality synthetic surface of SylSpot prevents dust collection and ensures long product life
- Supplied with a non-dimmable LED GU10 spotlight
- Adjustable vertical tilt +/- 30°
- High switching cycles: >50,000
- Good colour rendering: CRI80
- High performance: 345lm and 77lm/W (total system efficiency)
- Available in White, Black and Chrome finish
- Available in Warm White (3000K) and Cool White (4000K)
- Lifetime: 15,000 hours at 70% of the original output (L70)
- Energy class: A+

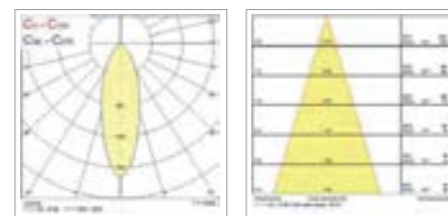
## Product information

Code	Description	Fixture Colour	Correlated Colour Temperature (K)	CRI	Fixture Lumen (lm)	Total Power Consumption (W)	Luminaire Efficacy (lm/W)	Nominal Beam Angle (°)	Mains voltage (V)
<b>SylSpot Kit</b>									
<b>SylSpot Kit - Single pack</b>									
0005725	SylSpot Kit R 345lm 830 ADJ IP20 WH	White	3000	80	345	4.5	77	36	220-240
0005726	SylSpot Kit R 345lm 840 ADJ IP20 WH	White	4000	80	345	4.5	77	36	220-240
0005728	SylSpot Kit R 345lm 830 ADJ IP20 CH	Chrome	3000	80	345	4.5	77	36	220-240
0005729	SylSpot Kit R 345lm 840 ADJ IP20 CH	Chrome	4000	80	345	4.5	77	36	220-240
0005737	SylSpot Kit R 345lm 830 ADJ IP20 BK	Black	3000	80	345	4.5	77	36	220-240
0005738	SylSpot Kit R 345lm 840 ADJ IP20 BK	Black	4000	80	345	4.5	77	36	220-240
<b>SylSpot Kit - Pack of 3</b>									
0005731	SylSpot Kit R 345lm 830 ADJ IP20 WH 3PK	White	3000	80	345	4.5	77	36	220-240
0005732	SylSpot Kit R 345lm 840 ADJ IP20 WH 3PK	White	4000	80	345	4.5	77	36	220-240
0005734	SylSpot Kit R 345lm 830 ADJ IP20 CH 3PK	Chrome	3000	80	345	4.5	77	36	220-240
0005735	SylSpot Kit R 345lm 840 ADJ IP20 CH 3PK	Chrome	4000	80	345	4.5	77	36	220-240
0005740	SylSpot Kit R 345lm 830 ADJ IP20 BK 3PK	Black	3000	80	345	4.5	77	36	220-240
0005741	SylSpot Kit R 345lm 840 ADJ IP20 BK 3PK	Black	4000	80	345	4.5	77	36	220-240

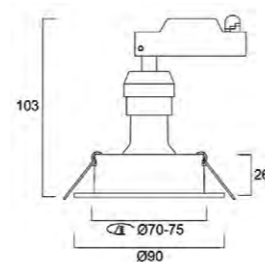
## Additional Images



## Photometric Data



## Dimensions (mm)



# SylSpot Housing



## Features

- A range of modern and compact spotlight housings with a quick and easy lamp mounting from the front. Simply twist&lock to change it
- The special high-quality synthetic surface of SylSpot prevents dust collection and ensures long product life
- GU10 socket included with fast wiring terminal block
- Available in white, black or chrome finish
- Adjustable vertical tilt +/- 30°
- Available in white, black or chrome finish
- Adjustable vertical tilt +/- 30°
- Recommended for use with any Sylvania LED GU10 spotlight, up to 7.5W max
- Not suitable for use with Halogen lamps

## Product information

Code	Description	Fixture Colour	Fixture Length (mm)	Fixture Width (mm)	Fixture Height (mm)	Cutout Dimensions (W x L in mm or Diameter in mm)	IP Rating	IK Rating	Mains voltage (V)
<b>SylSpot Housing</b>									
<b>SylSpot Housing - Single pack</b>									
0005744	SylSpot Housing R ADJ IP20 BK	Black	90	90	26	70-75	IP20	IK03	220-240
0005752	SylSpot Housing R ADJ IP20 WH	White	90	90	26	70-75	IP20	IK03	220-240
0005753	SylSpot Housing R ADJ IP20 CH	Chrome	90	90	26	70-75	IP20	IK03	220-240

## Additional Images



White



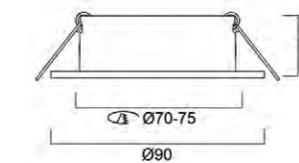
Chrome



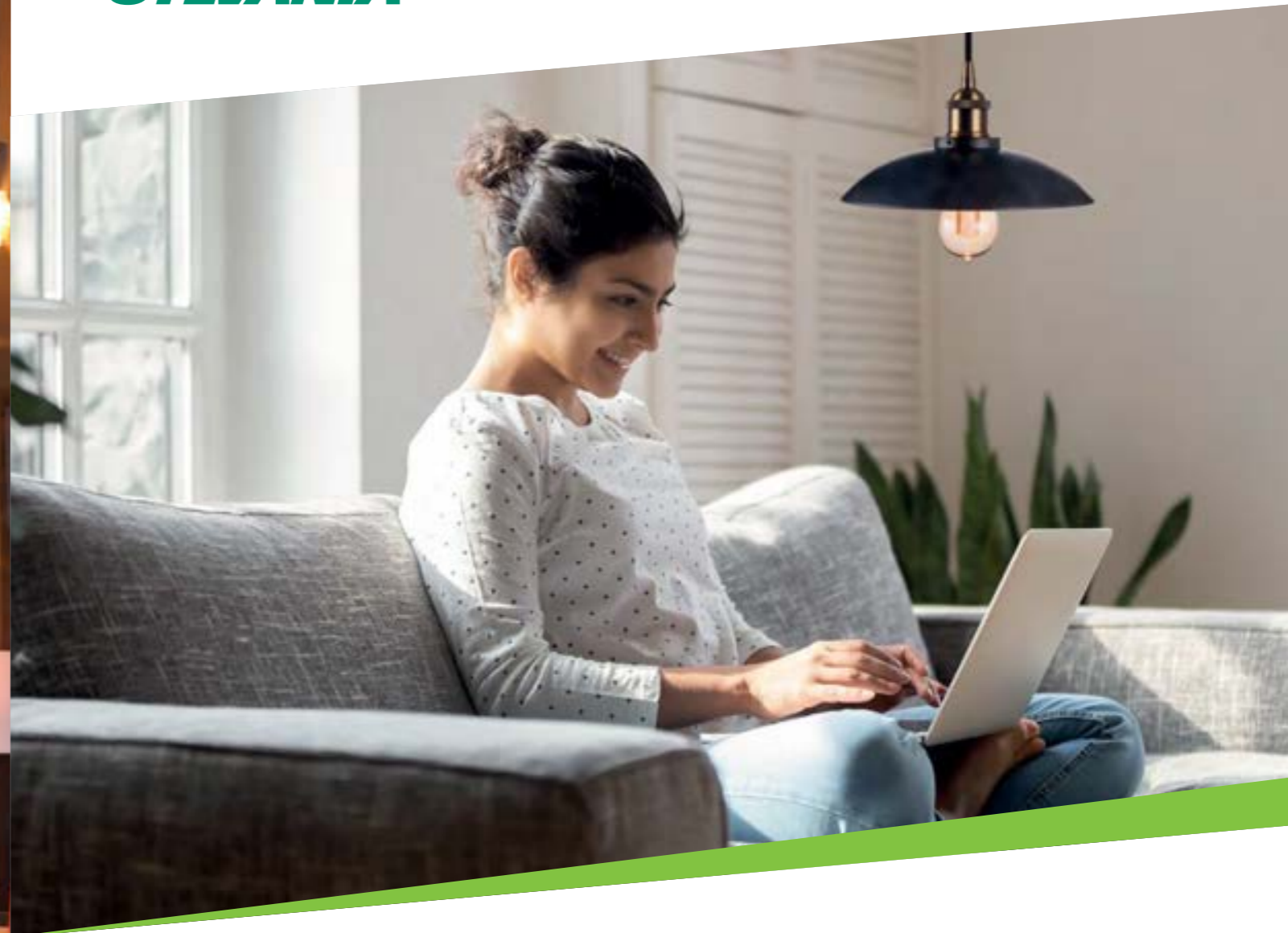
Black



## Dimensions (mm)



**SYLVANIA**



## Stylish and versatile pendant lighting

SylPendant

SylPendant is a range of sleek and great looking pendant light fittings, built with high-quality, durable materials and designed to create a stylish feature in any room. Featuring adjustable, vintage-style fabric cable, so you can create the drop to best suit the height of your room.

Available in single and triple pendant options that can be perfectly paired with Sylvania's premium-quality LED lampinaire range; ToLEDo™ Radiance, ToLEDo™ Mirage, ToLEDo™ Retro and ToLEDo™ LifeStyle.





# SylPendant Vintage



## Features

- A vintage style non-integrated pendant for decorative and general lighting applications
- Elegant design that makes a statement and enhances the ambience of any room
- Black and brass metal housing with premium fit and finish helps the product stand-out in all kinds of interior settings
- Adjustable black fabric cable included, so you can create the drop to best suit the height of your room
- Applications: Perfect for kitchens, living rooms, dining rooms, hallways, restaurants, cafés, bars and galleries
- Easy-to-install and supplied with an E27 lamp holder
- Maximum recommended LED lamp wattage: 25W, lamp not included

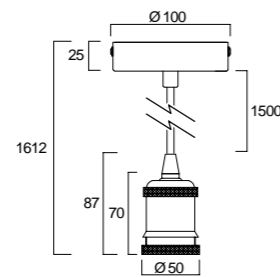
## Product information

Code	Description	Max LED Wattage (W)	Base	Voltage (V)	Operating Frequency (Hz)	IP Rating	IK rating	Electrical Class
<b>SylPendant Vintage</b>								
0044402	SylPendant Vintage E27	25	E27	220-240	50/60	IP20	IK03	Class I

## Additional images



## Dimensions (mm)



# SylPendant Vintage Trio



## Features

- A vintage style non-integrated pendant for decorative and general lighting applications
- Elegant design that makes a statement and enhances the ambience of any room
- Black and brass metal housing with premium fit and finish helps the product stand-out in all kinds of interior settings
- Adjustable black fabric cable included, so you can create the drop to best suit the height of your room
- Applications: Perfect for kitchens, living rooms, dining rooms, hallways, restaurants, cafés, bars and galleries
- Easy-to-install and supplied with an E27 lamp holder
- Maximum recommended LED lamp wattage: 25W, lamp not included

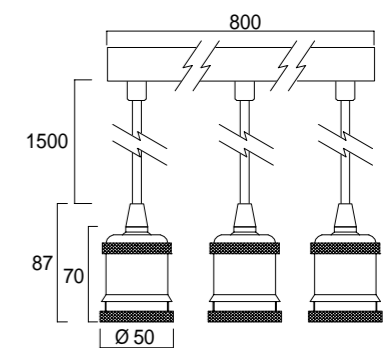
## Product information

Code	Description	Max LED Wattage (W)	Base	Voltage (V)	Operating Frequency (Hz)	IP Rating	IK rating	Electrical Class
<b>SylPendant Vintage</b>								
0044403	SylPendant Vintage Trio E27	25	E27	220-240	50/60	IP20	IK03	Class I

## Additional images



## Dimensions (mm)



# SylPendant Vintage Luna



## Features

- A vintage style non-integrated pendant for decorative and general lighting applications
- Elegant design that makes a statement and enhances the ambience of any room
- Black and brass metal housing with premium fit and finish helps the product stand-out in all kinds of interior settings
- Adjustable black fabric cable included, so you can create the drop to best suit the height of your room
- Applications: Perfect for kitchens, living rooms, dining rooms, hallways, restaurants, cafés, bars and galleries
- Easy-to-install and supplied with an E27 lamp holder
- Maximum recommended LED lamp wattage: 25W, lamp not included

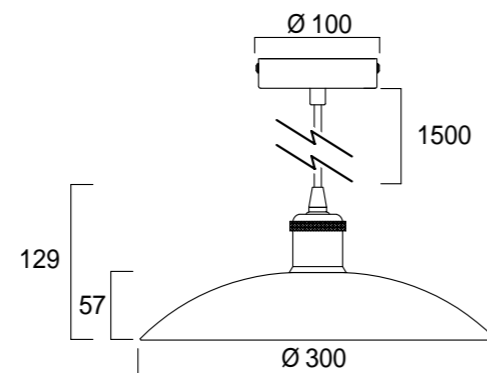
## Product information

Code	Description	Max LED Wattage (W)	Base	Voltage (V)	Operating Frequency (Hz)	IP Rating	IK rating	Electrical Class
<b>SylPendant Vintage</b>								
0044404	SylPendant Vintage Luna E27	25	E27	220-240	50/60	IP20	IK03	Class I

## Additional images



## Dimensions (mm)



# SylPendant Vintage Arc



## Features

- A classic style non-integrated pendant for decorative and general lighting applications
- Premium fit and finish
- The black and brass colour combination metal housing and elegant glass cover helps the product stand-out in all kinds of interior settings
- Adjustable black fabric cable included, so you can create the drop to best suit the height of your room
- Applications: Perfect for kitchens, living rooms, dining rooms, hallways, restaurants, cafés, bars and galleries
- Easy-to-install and supplied with an E27 lamp holder
- Maximum recommended LED lamp wattage: 25W, lamp not included

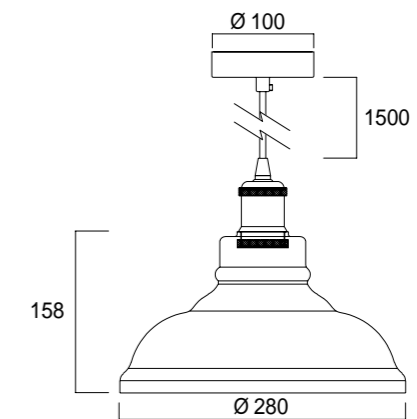
## Product information

Code	Description	Max LED Wattage (W)	Base	Voltage (V)	Operating Frequency (Hz)	IP Rating	IK rating	Electrical Class
<b>SylPendant Vintage</b>								
0044405	SylPendant Vintage Arc E27	25	E27	220-240	50/60	IP20	IK03	Class I

## Additional images



## Dimensions (mm)



# SylPendant Vintage Flare



## Features

- A classic style non-integrated pendant for decorative and general lighting applications
- Premium fit and finish
- The black and brass colour combination metal housing and elegant glass cover helps the product stand-out in all kinds of interior settings
- Adjustable black fabric cable included, so you can create the drop to best suit the height of your room
- Applications: Perfect for kitchens, living rooms, dining rooms, hallways, restaurants, cafés, bars and galleries
- Easy-to-install and supplied with an E27 lamp holder
- Maximum recommended LED lamp wattage: 25W, lamp not included

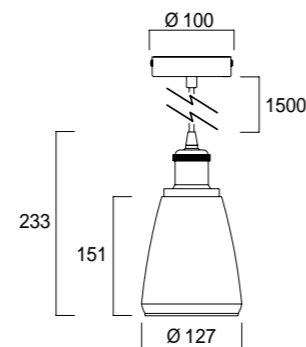
## Product information

Code	Description	Max LED Wattage (W)	Base	Voltage (V)	Operating Frequency (Hz)	IP Rating	IK rating	Electrical Class
<b>SylPendant Vintage</b>								
0044406	SylPendant Vintage Flare E27	25	E27	220-240	50/60	IP20	IK03	Class I

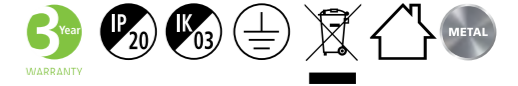
## Additional images



## Dimensions (mm)



# SylPendant



## Features

- A sleek and modern style non-integrated pendant for decorative and general lighting applications
- Elegant design that makes a statement and enhances the ambience of any room
- Metal housing with a premium fit and finish
- Adjustable black fabric cable included, so you can create the drop to best suit the height of your room
- Applications: Perfect for kitchens, living rooms, dining rooms, hallways, restaurants, cafés, bars and galleries
- Easy-to-install and supplied with an E27 lamp holder
- Maximum recommended LED lamp wattage: 25W, lamp not included

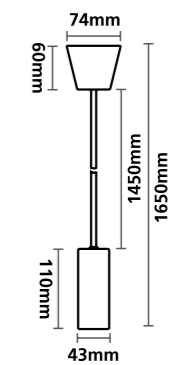
## Product information

Code	Description	Max LED Wattage (W)	Base	Voltage (V)	Operating Frequency (Hz)	IP Rating	IK rating	Electrical Class
<b>SylPendant</b>								
0044407	SylPendant White	25	E27	220-240	50/60	IP20	IK03	Class I
0044408	SylPendant Black	25	E27	220-240	50/60	IP20	IK03	Class I
0044409	SylPendant Copper	25	E27	220-240	50/60	IP20	IK03	Class I
0044410	SylPendant Brass	25	E27	220-240	50/60	IP20	IK03	Class I

## Additional images



## Dimensions (mm)



**SYLVANIA**



## Wall or ceiling mounted LED luminaires



### **START** Surface IP44

START Surface IP44 is a range of wall or ceiling mounted LED luminaires, that provides an even and uniform light. Available in six different sizes, developed for circulation areas, corridors, bathrooms and wet areas.

The range features microwave and PIR sensor models, perfect for high traffic areas enabling the luminaire to switch on when presence is detected. This also increases energy savings by switching off when an area is unoccupied.

START Surface IP44 has a new dual tone addition across the whole range, always allowing a choice between 3000K and 4000K, simply by a flick of the switch. This gives flexibility in changing the colour temperature, making the START Surface IP44 ideal for multiple applications.

# START Surface IP44



## Features

- Range of wall or ceiling mounted LED luminaires developed for hallways, kitchens, bathrooms and wet areas
- New addition of dual tone, enables switch between 3000K and 4000K colour temperatures
- Available in six diameters: 180mm, 250mm, 330mm, 360mm, 390mm or 480mm
- Can be wall or ceiling mounted
- Besa mounting box compatible, hole distance 51mm and 78mm
- IK03 rated white opal diffuser
- 18W, 24W, 32W and 40W dimmable versions through phase dimming (leading edge/trailing edge)
- 18W and 24W microwave or PIR (infra-red) sensor versions allow automatic on/off presence control with optional lux level setting, providing further energy savings
- 32W and 40W integrated LiFePO4 Emergency versions
- CRI 80
- Even and uniform light distribution
- High performance, up to 3600lm
- High efficiency of up to 91lm/W (4000K)
- Lifespan L70:B50 90,000 hours

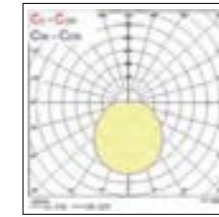
## Product information

Code	Description	Colour Temperature (K)	Luminous Flux (lm)	Power Consumption (W)	Efficacy (lm/W)	Luminaire diameter (mm)	Luminaire height (mm)	Control (DIM)
<b>START Surface IP44</b>								
<b>Non-dimmable</b>								
0043425	START Surface IP44 520lm 830/840 DualTone	3000K/4000K	520	6	87	180	75	No
0043426	START Surface IP44 1025lm 830/840 DualTone	3000K/4000K	1025	12	85	250	80	No
0043427	START Surface IP44 1550lm 830/840 DualTone	3000K/4000K	1550	18	86	330	96	No
0043428	START Surface IP44 2050lm 830/840 DualTone	3000K/4000K	2050	24	85	360	100	No
<b>Dimmable</b>								
0043433	START Surface IP44 1550lm 830/840 DualTone DIM	3000K/4000K	1550	18	86	330	96	Phase DIM
0043434	START Surface IP44 2050lm 830/840 DualTone DIM	3000K/4000K	2050	24	85	360	100	Phase DIM
0043429	START Surface IP44 2900lm 830/840 DualTone DIM	3000K/4000K	2900	32	91	390	115	Phase DIM
0043430	START Surface IP44 3600lm 830/840 DualTone DIM	3000K/4000K	3600	40	90	480	140	Phase DIM
<b>Microwave Presence Sensor</b>								
0043435	START Surface IP44 1550lm MW 830/840 DualTone	3000K/4000K	1550	18	86	330	96	No
0043436	START Surface IP44 2050lm MW 830/840 DualTone	3000K/4000K	2050	24	85	360	100	No
<b>PIR Presence Sensor</b>								
0043437	START Surface IP44 PIR 1400lm 830/840 DualTone	3000K/4000K	1400	18	78	330	108	No
0043438	START Surface IP44 PIR 1800lm 830/840 DualTone	3000K/4000K	1800	24	75	360	112	No
<b>Emergency</b>								
0043440	START Surface IP44 2900lm 830/840 DualTone DIM EM	3000K/4000K	2900	32	91	390	115	Phase DIM
0043441	START Surface IP44 3600lm 830/840 DualTone DIM EM	3000K/4000K	3600	40	90	480	140	Phase DIM

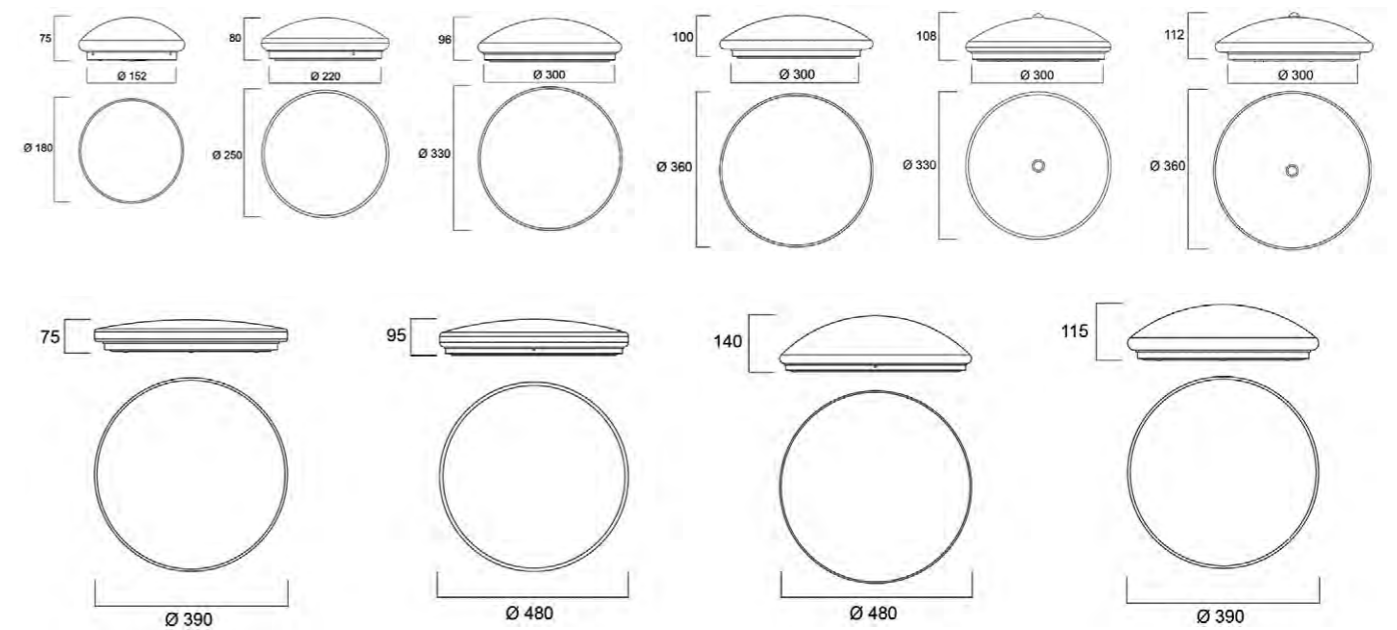
# START Surface IP44



## Photometric data



## Dimension (mm)



**SYLVANIA**



## Robust luminaires in a sleek design

### **START** Surface Slim IP54

START Surface Slim IP54 is a range of wall or ceiling mounted LED luminaires that provides an even and uniform light in a slim but robust design. Available in four different circular and two square design dimensions, perfect for circulation areas, corridors, bathrooms and wet areas.

The range features a rapid mounting system through a plug & play bracket system: install the bracket on the surface and click the luminaire in a single touch.

Microwave sensor models are perfect for high traffic areas enabling the luminaire to switch on when presence is detected. This also increases energy savings by switching off when an area is unoccupied.

START Surface Slim IP54 has a dual colour temperature across the whole range, always allowing a choice between 3000K and 4000K, simply by a flick of the switch during installation. The range provides dimming option (excluding Microwave versions) through phase dimming (leading edge/trailing edge) and delivers up to 4000lm with an efficacy up to 114lm/W.



# START Surface Slim IP54



## Features

- Range of robust and slim wall or ceiling mounted LED luminaires developed for hallways, kitchens, bathrooms and wet areas
- Can be wall or ceiling mounted
- Circular design available in four diameters: 220mm, 280mm, 330mm or 400mm
- Square design available in two dimensions: 280x280mm, 400x400mm
- IP54 degree of protection for the whole range and IK07 rated white opal diffuser
- Even and uniform light distribution
- Switch between 3000K and 4000K colour temperatures
- High performance, up to 4000lm
- High efficiency of up to 114lm/W (4000K)
- Microwave sensor versions allow automatic on/off presence control with optimal lux level setting, providing further energy savings
- CRI>80
- The range features the dimming option through phase dimming - leading edge/ trailing edge (excluding MW versions)
- Lifespan L70:B50 58,000 hours

## Product information

Code	Description	Colour Temperature (K)	Luminous Flux (lm)	Power Consumption (W)	Efficacy (lm/W)	Luminaire diameter (mm)	Luminaire height (mm)	Control
<b>START Surface Slim IP5</b>								
Dimmable								
0043510	START Surface Slim IP54 Round 1500lm 2CCT DIM WH	3000K/4000K	1500	15	100	220	53	Phase DIM
0043511	START Surface Slim IP54 Round 1900lm 2CCT DIM WH	3000K/4000K	1900	18	106	280	53	Phase DIM
0043512	START Surface Slim IP54 Round 2500lm 2CCT DIM WH	3000K/4000K	2500	24	104	330	53	Phase DIM
0043513	START Surface Slim IP54 Round 4000lm 2CCT DIM WH	3000K/4000K	4000	35	114	400	53	Phase DIM
0043517	START Surface Slim IP54 Square 1900lm 2CCT DIM WH	3000K/4000K	1900	18	105	280 x 280	53	Phase DIM
0043519	START Surface Slim IP54 Square 4000lm 2CCT DIM WH	3000K/4000K	4000	35	114	400 x 400	53	Phase DIM
Microwave Presense Sensor								
0043514	START Surface Slim IP54 Round 1900lm 2CCT MW WH	3000K/4000K	1900	18	106	280	53	No
0043520	START Surface Slim IP54 Square 1900lm 2CCT MW WH	3000K/4000K	1900	18	106	280 x 280	53	No

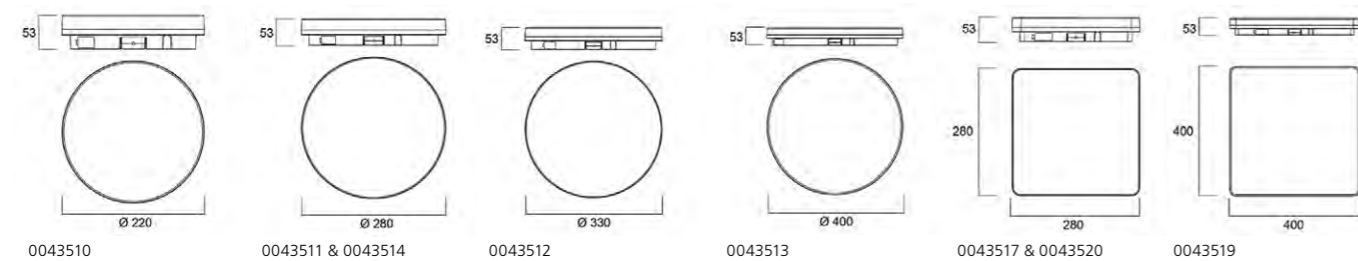
## Additional Images



START Surface Slim IP54 - Round

START Surface Slim IP54 - Square

## Dimensions (mm)



0043510

0043511 & 0043514

0043512

0043513

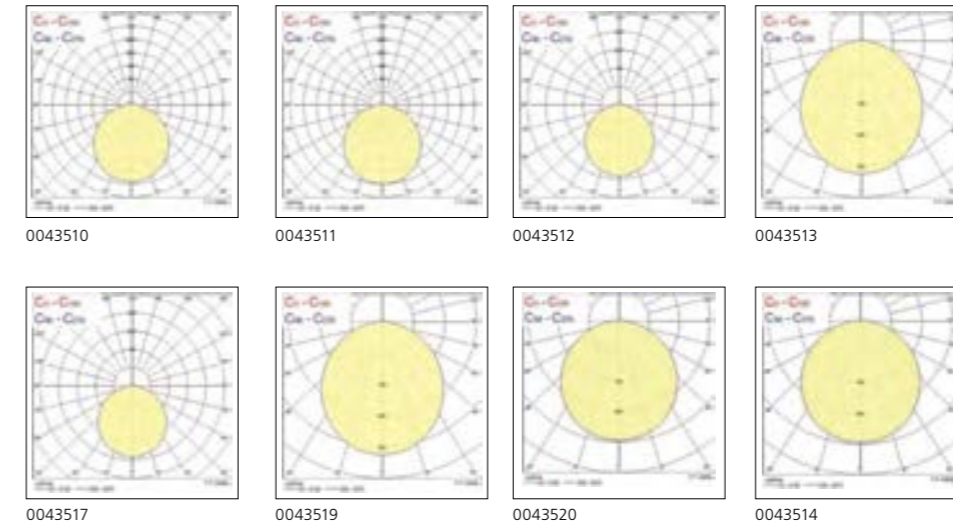
0043517 & 0043520

0043519

# START Surface Slim IP54



## Photometric Data



0043510

0043511

0043512

0043513

0043517

0043519

0043520

0043514

**SYLVANIA**



## Reliable & uniform

**START** Flex & **START** eco Flex

The START Flex and the START eco Flex is the comprehensive family of LED strips for indoor and outdoor use. The range is available in low lumen output (2,650lm per 5m) and high lumen output (11,750lm per 5m) in Warm White 3000K and cool light 4000K colour temperatures and in RGB and RGBW versions.

The START Flex delivers impressive performance with efficacy of up to 142lm/W (high output, 4000K version) which makes it energy efficient while delivering beautiful

lighting effects. Low maintenance product with up to 50 000hrs lifetime and up to 5 year warranty. SDCM<3 provides uniform light over the full length of START Flex. The wide choice of accessories, drivers and profiles makes it easy to build for any application.

The START Flex is an inspiring lighting tool that can be used in many applications like hotels, domestic installations, offices, bars and exterior buildings.





# START Flex & START eco Flex Indoor



## Features

- A range of thin and very flexible LED strips in 4 versions:
  - Low output 2,650lm per 5m with 300pcs LED chips
  - High output 11,750lm per 5m with 420pcs LED chips (require Aluminium profile)
  - RGB version with 600pcs LED chips
  - RGBW version with 600pcs LED chips
- SDCM<3 makes the light uniform over the whole strip
- Can be easily cut on site with cut points every 85-100mm depending on the strips
- All available in 3000K Warm White, 4000K Neutral White and RGB and RGBW version meeting all customers needs
- IP20 rating for general areas and IP65 rating for kitchen, bathroom areas
- Dimmable with the most PWM dimmers available on the market
- Dimmable via DALI, 1-10V and wireless control
- 1000mm flying lead to connect to driver
- All come as 5m reel as standard
- All come with 3m adhesive tape and IP65 additionally with mounting clips and end caps
- 5 year warranty for IP20 & IP65 and 3 year warranty for RGB & RGBW
- LED drivers can be ordered separately from our driver range
- A selection of aluminium profiles available
- High output versions need to be used with aluminium profile for cooling LED chips purpose and therefore assuring longer lifetime (Profile HO Surface 16 0022604 can be used)

## Product information

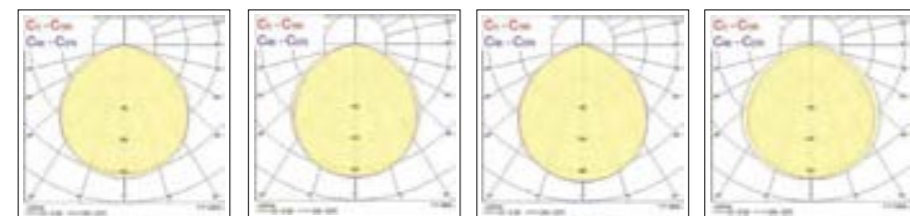
Code	Description	Length (m)	Number of LEDs per 5m	Colour Temperature (K)	IP Rating	W/meter	Fixture Lumen Output (lm) per 5m*	lm/Metre	Luminaire efficacy lm/W	Average Rated Life (Hours)
<b>START Flex</b>										
<b>Low Output</b>										
0068100	START Flex IP20 830 2800lm	5m	300	3000	IP20	4.8	2800	560	117	50,000
0068101	START Flex IP20 840 2850lm	5m	300	4000	IP20	4.8	2850	570	119	50,000
0068127	START Flex IP65 830 2650lm	5m	300	3000	IP65	4.8	2650	530	110	50,000
0068128	START Flex IP65 840 2750lm	5m	300	4000	IP65	4.8	2750	550	115	50,000
<b>High Output**</b>										
0068114	START Flex IP20 830 10,750lm	5m	420	3000	IP20	16.5	10,750	2150	130	50,000
0068115	START Flex IP20 840 11,750lm	5m	420	4000	IP20	16.5	11,750	2350	142	50,000
0068118	START Flex IP65 830 10,250lm	5m	420	3000	IP65	16.5	10,250	2050	124	50,000
0068119	START Flex IP65 840 11,750lm	5m	420	4000	IP65	16.5	11,750	2350	142	50,000
0068122	START eco Flex IP20 RGBW	5m	600	RGBW	IP20	16.5	4000	800	56	50,000
0068124	START eco Flex IP67 RGBW	5m	600	RGBW	IP67	16.5	3250	650	45	50,000

\* Around 10% less total lumen for overall 5m reel  
 \*\* Must be used with any aluminium profile

## Additional images



## Photometric Data



0068100 START Flex IP20 Low Lumen 830    0068114 START Flex IP20 High Output 830    0068118 START Flex IP65 High Output 830    0068127 START Flex IP65 Low lumen 830

# START Flex Accessories - Connectors

## Compatibility Chart Connectors with START Flex

Code	Description	Max width of the connector mm	START Flex IP20	START Flex IP20 HO	START Flex IP65	START Flex IP65 HO	START eco Flex Flex IP67	START eco Flex RGB IP20	START eco Flex RGB IP67	START eco Flex RGBW IP20	START eco Flex RGBW IP67
<b>Accessories - Connectors</b>											
0068004	START FLEX IP20 STRAIGHT CONNECTOR X 10	12.5	•								
0068006	START FLEX IP20 CONNECTOR X 5 + 2M LEAD	12.2	•								
0068010	START FLEX IP20 CORNER CONNECTOR X 10	12.2	•								
0068021	START FLEX HO IP20 STRAIGHT CONNECTOR X 10	14.5		•							
0068022	START FLEX HO IP20 CONNECTOR X 5 + 2M LEAD	14.2		•							
0068023	START FLEX HO IP20 CORNER CONNECTOR X 10	14.2		•							
0068007	START FLEX IP65 STRAIGHT CONN X 10 (PCB to PCB)	15			•						
0068027	START FLEX IP65 STRAIGHT CONNECTOR X 5+2M LEAD	15			•						
0068012	START FLEX IP65 CORNER CONNECTOR X 5	15			•						
0068008	START FLEX HO IP65 STRAIGHT CONN X 10	17				•					
0068028	START FLEX HO IP65 STRAIGHT CONN X 5 +2M LEAD	17				•					
0068009	START FLEX HO IP65 CORNER CONNECTOR X 5	17				•					
0068136	START FLEX IP20 RGBW STRAIGHT CONNECTOR X 10	16.8								•	
0068133	START FLEX IP20 RGBW STRAIGHT CONNX 5 +2M LEAD	16.8								•	
0068137	START FLEX IP20 RGBW CORNER CONNECTOR X 10	16.8								•	
0068033	START FLEX IP67 RGBW CORNER CONNECTOR x5	19.5									•
0068032	START FLEX IP67 RGBW STRAIGHT CONNECTOR x5	19.5									•
0068031	START FLEX IP67 RGBW STRAIGHT CONN X 5 + 2M LEAD	19.5									•



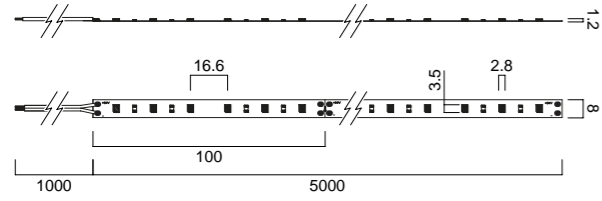
0068033

# START Flex & START eco Flex Indoor

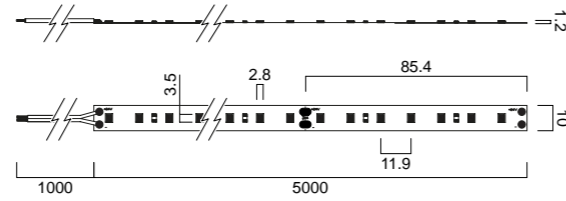


## Dimensions (mm)

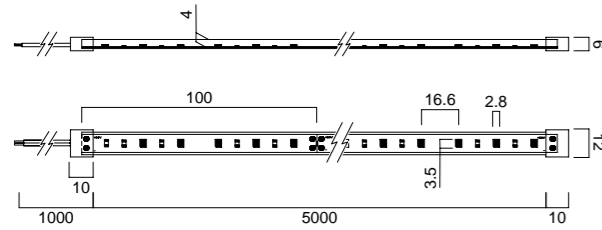
START Flex IP20 ( 0068100, 0068101)



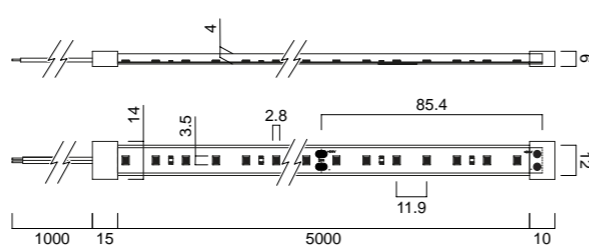
Start Flex HO ( 0068114, 0068115)



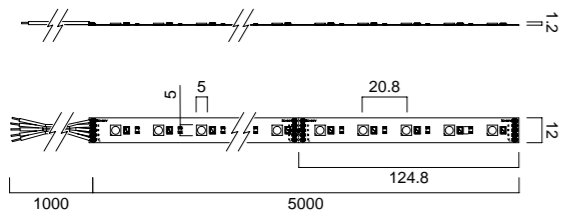
START Flex IP65 (0068127, 0068128)



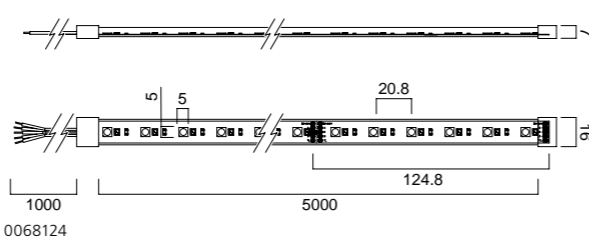
START Flex IP65 HO (0068118,0068119)



START eco Flex RGBW IP20 (0068122)



RGBW IP67



0068124

# START Flex Accessories - Constant Voltage Drivers

## Features

- A range of Constant Voltage LED drivers compatible with START flex range
- Standard, DALI dimmable, SylSmart dimmable drivers
- Sylsmart dimmable (SSC) drivers are wireless dimmable drivers for controlling white LED strips with no additional external dimmer required
- SylSmart SSC PWM4 dimmer is a new addition for wireless controlling RGBW and white START Flex

## Product information

Code	Description	Total Power Consumption (W)	Voltage (V)	Height (mm)	Length (mm)	Width (mm)	IP Rating
<b>Standard</b>							
9014921	CV Driver 35W 24V	35	24	30	142	43	IP20
9014922	CV Driver 60W 24V	60	24	29.8	225	43	IP20
9014923	CV Driver 100W 24V	100	24	29.8	295	43	IP20
9014924	CV Driver 200W 24V	200	24	29.8	325	43	IP20
<b>DALI</b>							
9014925	CV Driver DALI 35W 24V	35	24	30	142	43	IP20
9014926	CV Driver DALI 60W 24V	60	24	29.8	225	43	IP20
9014927	CV Driver DALI 100W 24V	100	24	29.8	295	43	IP20
9014928	CV Driver DALI 150W 24V	200	24	29.8	325	43	IP20
<b>SylSmart</b>							
9014913	CV Driver SSC 35W 24V	35	24	30.2	195	43	IP20
9014914	CV Driver SSC 60W 24V	60	24	30.2	225	43	IP20
9014915	CV Driver SSC 100W 24V	100	24	29.8	295	43	IP20
9014916	CV Driver SSC 150W 24V	150	24	29.8	325	43	IP20
<b>PWM4 Dimmer</b>							
9041535	SylSmart SSC PWM4		24	30	72	18	IP20

## Compatibility Chart Drivers with START Flex

Drivers			Standard Driver				DALI Driver											
Description	Max Wattage of 5m Start Flex	Wattage per 1m Start Flex	9014921 CV DRIVER 35W 24V IP20	9014922 CV DRIVER 60W 24V IP20	9014923 CV DRIVER 100W 24V IP20	9014924 CV DRIVER 200W 24V IP20	9014925 CV DRVR DALI 35W 24V IP20	9014926 CV DRVR DALI 60W 24V IP20	9014927 CV DRVR DALI 100W 24V IP20	9014928 CV DRVR DALI 150W 24V IP20								
			min	max	min	max	min	max	min	max	min	max	min	max	min	max		
meters of Start Flex to be used with the driver																		
START Flex IP20 / IP65	24	4.8	2.2	6.6	3.8	11.3	6.3	18.8	12.5	37.5	0.7	6.6	1.3	11.3	2.1	18.8	3.1	28.1
START Flex IP20 HO / IP65 HO	82.5	16.5	0.6	1.9	1.1	3.3	1.8	5.5	3.6	10.9	0.2	1.9	0.4	3.3	0.6	5.5	0.9	8.2
START eco Flex RGB+W	72	14.4	0.7	2.2	1.3	3.8	2.1	6.3	4.2	12.5	0.2	2.2	0.4	3.8	0.7	6.3	1.0	9.4

Drivers			SylSmart Driver							
Description	Max Wattage of 5m Start Flex	Wattage per 1m Start Flex	9014913 CV DRIVER SSC 35W 24V	9014914 CV DRIVER SSC 60W 24V	9014915 CV DRIVER SSC 100W 24V	9014916 CV DRIVER SSC 150W 24V				
			min	max	min	max	min	max		
meters of Start Flex to be used with the driver										
START Flex IP20 / IP65	24	4.8	0.7	6.6	1.3	11.3	2.1	18.8	3.1	28.1
START Flex IP20 HO / IP65 HO	82.5	16.5	0.2	1.9	0.4	3.3	0.6	5.5	0.9	8.2
START eco Flex RGB+W	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

\*Please note that for length greater than 5m, the brightness of LED strips can be reduced gradually \* SSC - SylSmart wireless dimmable drivers for white colour START flex

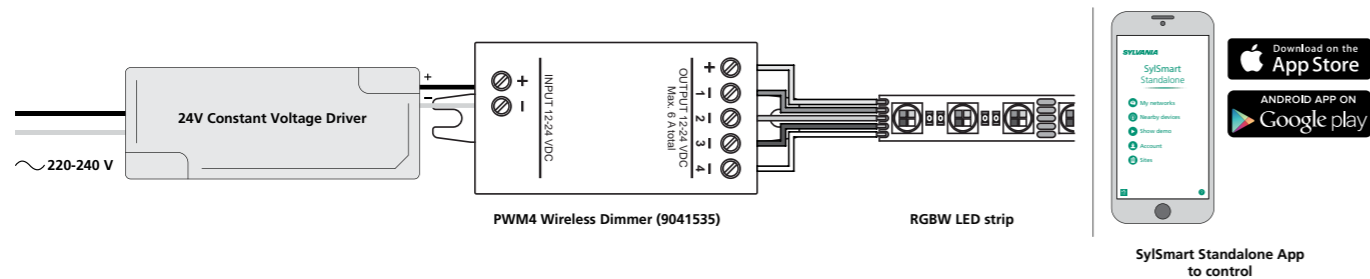
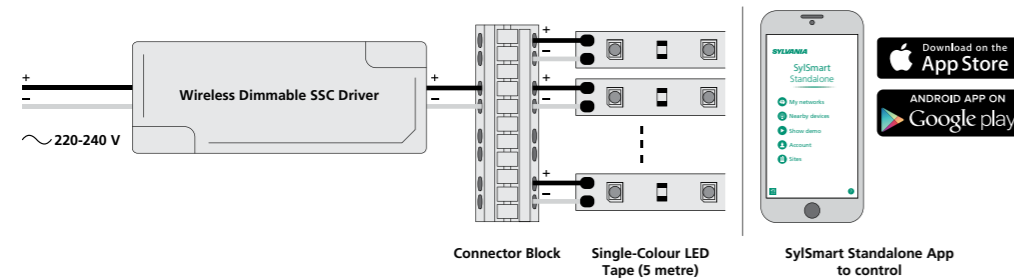
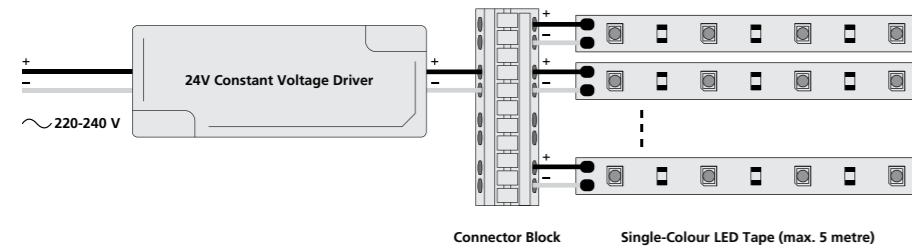
# Driver supply diagram - examples



CV Driver 35W 24V    CV DRVR DALI 35W 24V    CV Driver 60W 24V    CV DRVR DALI 60W 24V    CV Driver 100W 24V    CV DRVR DALI 100W 24V



CV DRVR DALI 150W 24V    Lumidriver 1-10V 120W



# START Flex Profiles

## Features

- Aluminium profiles for mounting START Flex products
- Suitable for different application areas: kitchen, counter tops, accent lighting
- 2m standard length (1m and 3m – only on order request)
- Recess, surface or corner mount versions available
- Aluminium profile acts like a heatsink for LED tape helping to preserve lifetime
- Available in opal diffusers with transparency level of 70%-75%. 2 types of diffusers- click (to be installed from the top) and slide (to be installed from the side)
- Anodised aluminium finish (except for Profile HO surface – raw aluminium)
- All START Flex products come with adhesive tape to help to fix to the profiles
- Profile HO surface can be fixed with double sided adhesive tape
- All accessories (endings, holders, mounting clips) are delivered in bags of 1 set (2pcs)
- Accessories (ending, holders, mounting clips) are mandatory to order to complete your profile installation

## Compatibility Chart/Profiles with START Flex

Product Name	Profile Recess 20 EF/U7	Profile Semi Deep Surface 16 B/U4	Profile Semi Deep Surface 20 EF/T	Profile Deep Wide Surface 30 CDE-9/T	Profile Shallow Wide Surface 30 CDE-9/T	Profile Shallow Narrow 14 EF/T	Profile Corner Surface 14 EF/T	Profile HO Surface 16 Raw Alu.
Item Code (1m)	0022587	0022588	0022589	0022590	0022591	0022592	0022593	0022595
Item Code (2m)	0022596	0022597	0022598	0022599	0022600	0022601	0022602	0022604
Item Code (3m)	0022605	0022606	0022607	0022608	0022609	0022610	0022611	0022613

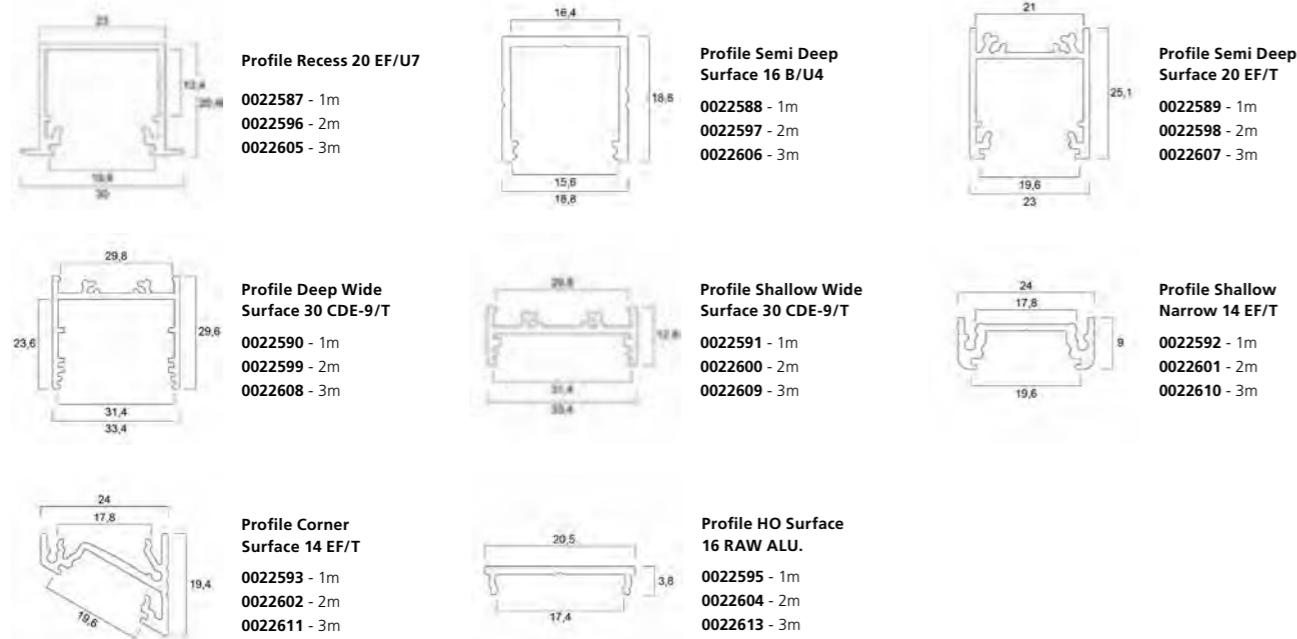
Product Name	Max width with end caps (mm)	Max width with connectors (mm)								
START Flex IP20	8	12.5	•	•	•	•	•	•	•	•
START Flex IP20 HO	10	14.5	•	•	•	•	•	•	•	•
START Flex IP65	12	15	•		•	•				•
START Flex IP65 HO	12	17	•		•	•				•
START eco Flex IP20 RGB	10	15	•		•	•				•
START eco Flex IP67 RGB	14	14	•		•	•				•
START eco Flex IP20 RGBW	12	17	•		•	•				•
START eco Flex IP67 RGBW	16	16	•		•	•				•
START eco Flex IP67	17.5	20				•	•			

## Profile Images

	<b>Profile Recess 20 EF/U7</b> 0022587 - 1m 0022596 - 2m 0022605 - 3m		<b>Profile Semi Deep Surface 16 B/U4</b> 0022588 - 1m 0022597 - 2m 0022606 - 3m		<b>Profile Semi Deep Surface 20 EF/T</b> 0022589 - 1m 0022598 - 2m 0022607 - 3m
	<b>Profile Deep Wide Surface 30 CDE-9/T</b> 0022590 - 1m 0022599 - 2m 0022608 - 3m		<b>Profile Shallow Wide Surface 30 CDE-9/T</b> 0022591 - 1m 0022600 - 2m 0022609 - 3m		<b>Profile Shallow Narrow 14 EF/T</b> 0022592 - 1m 0022601 - 2m 0022610 - 3m
	<b>Profile Corner Surface 14 EF/T</b> 0022593 - 1m 0022602 - 2m 0022611 - 3m		<b>Profile HO Surface 16 RAW ALU.</b> 0022595 - 1m 0022604 - 2m 0022613 - 3m		

# START Flex Profiles

## Profile Line Drawings



## Compatibility Chart - 1m Profiles with Accessories

Product Name	Profile Recess 20 EF/U7	Profile Semi Deep Surface 16 B/U4	Profile Semi Deep Surface 20 EF/T	Profile Deep Wide Surface 30 CDE-9/T	Profile Shallow Wide Surface 30 CDE-9/T	Profile Shallow Narrow 14 EF/T	Profile Corner Surface 14 EF/T	Profile HO Surface 16 Raw Alu.
Item Code (1m)	0022587	0022588	0022589	0022590	0022591	0022592	0022593	0022595
Product Code	Description							
0022615	Cover F Click 1m Opal	•					•	
0022616	Cover C9 Click 1m Opal			•	•			
0022635	Ending Recess 20 (x2)	•						
0022636	Ending Semi Deep Surface 16 (x2)		•					
0022637	Ending Semi Deep Surface 20 (x2)			•				
0022638	Ending Shallow Wide Surface 30 (x2)				•			
0022639	Ending Deep Wide Surface 30 (x2)				•			
0022640	Ending Shallow Narrow (x2)					•		
0022641	Ending Corner Surface 14 (x2)						•	
0022649	Ending for D9 Cover (x2)			•	•			
0022650	Ending for E9 Cover (x2)			•	•			
0022643	Holder U4 Inox (x2)		•					
0022644	Holder U7 Recess (x2)	•						
0022645	Holder T (x2)			•	•	•	•	
0022646	Mounting Clips Recess 20 (x2)	•						
0022647	Double Sided Tape 15mm x 50m							•

# START Flex Profiles

## Compatibility Chart - 2m Profiles with Accessories

Product Name	Profile Recess 20 EF/U7	Profile Semi Deep Surface 16 B/U4	Profile Semi Deep Surface 20 EF/T	Profile Deep Wide Surface 30 CDE-9/T	Profile Shallow Wide Surface 30 CDE-9/T	Profile Shallow Narrow 14 EF/T	Profile Corner Surface 14 EF/T	Profile HO Surface 16 Raw Alu.
Item Code (2m)	0022596	0022597	0022598	0022599	0022600	0022601	0022602	0022604
Product Code	Description							
0022619	Cover F Click 2m Opal	•		•			•	
0022620	Cover C9 Click 2m Opal			•	•			
0022635	Ending Recess 20 (x2)	•						
0022636	Ending Semi Deep Surface 16 (x2)		•					
0022637	Ending Semi Deep Surface 20 (x2)			•				
0022638	Ending Shallow Wide Surface 30 (x2)				•			
0022639	Ending Deep Wide Surface 30 (x2)				•			
0022640	Ending Shallow Narrow (x2)					•		
0022641	Ending Corner Surface 14 (x2)						•	
0022649	Ending for D9 Cover (x2)			•	•			
0022650	Ending for E9 Cover (x2)			•	•			
0022643	Holder U4 Inox (x2)		•					
0022644	Holder U7 Recess (x2)	•						
0022645	Holder T (x2)			•	•	•	•	
0022646	Mounting Clips Recess 20 (x2)	•						
0022647	Double Sided Tape 15mm x 50m							•

## Compatibility Chart - 3m Profiles with Accessories

Product Name	Profile Recess 20 EF/U7	Profile Semi Deep Surface 16 B/U4	Profile Semi Deep Surface 20 EF/T	Profile Deep Wide Surface 30 CDE-9/T	Profile Shallow Wide Surface 30 CDE-9/T	Profile Shallow Narrow 14 EF/T	Profile Corner Surface 14 EF/T	Profile HO Surface 16 Raw Alu.
Item Code (3m)	0022605	0022606	0022607	0022608	0022609	0022610	0022611	0022613
Product Code	Description							
0022623	Cover F Click 3m Opal	•		•			•	
0022624	Cover C9 Click 3m Opal			•	•			
0022635	Ending Recess 20 (x2)	•						
0022636	Ending Semi Deep Surface 16 (x2)		•					
0022637	Ending Semi Deep Surface 20 (x2)			•				
0022638	Ending Shallow Wide Surface 30 (x2)				•			
0022639	Ending Deep Wide Surface 30 (x2)				•			
0022640	Ending Shallow Narrow (x2)					•		
0022641	Ending Corner Surface 14 (x2)						•	
0022649	Ending for D9 Cover (x2)			•	•			
0022650	Ending for E9 Cover (x2)			•	•			
0022643	Holder U4 Inox (x2)		•					
0022644	Holder U7 Recess (x2)	•						
0022645	Holder T (x2)			•	•	•	•	
0022646	Mounting Clips Recess 20 (x2)	•						
0022647	Double Sided Tape 15mm x 50m							•



## START Flex Profiles

### Accessory Images



**Cover F Click**  
**0022615** - 1m  
 Transparency level: 75%  
**0022619** - 2m  
 Transparency level: 75%  
**0022623** - 3m  
 Transparency level: 75%



**Cover C9 Click**  
**0022616** - 1m  
 Transparency level: 75%  
**0022620** - 2m  
 Transparency level: 75%  
**0022624** - 3m  
 Transparency level: 75%



**Ending Recess 20**  
**0022635**



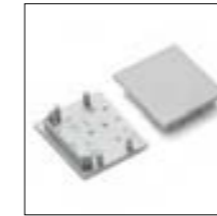
**Ending Semi Deep Surface 16**  
**0022636**



**Ending Deep Surface 20**  
**0022637**



**Ending Shallow Wide Surface 30**  
**0022638**



**Ending Deep Wide Surface 30**  
**0022639**



**Ending Shallow Narrow**  
**0022640**



**Ending Corner Surface 14**  
**0022641**



**Ending for D9 Cover**  
**0022649**



**Ending for E9 Cover**  
**0022650**



**Holder U4 Inox**  
**0022643**



**Holder U7 Recess**  
**0022644**



**Holder T**  
**0022645**



**Mounting Clips Recess 20**  
**0022646**



**Double Sided Tape**  
 15mm x 50m  
**0022647**

**SYLVANIA**



## Easy and beautiful as life should be

Pixo

The new Pixo improves the Sylvania track spot range with a simple and slick integral design fixture, with no driver box and no visible screws. The fixtures emit extremely precise light beams due to the high quality lenses, among additional 24° and 54°, all provided in the package.

Pixo is available in both 3000K and 4000K colour temperatures, CRI90, white RAL9016 or black RAL9005 housing colour and with a Global adapter GA69, for mounting on Global Trac Pro 3-circuit tracks.

### Features

- Simple and slick integral design with no driver box and without any visible screws
- Extremely precise light beams due to the high quality lenses
- Easy replaceable lens system: choose between standard light beam angle 36° or additional 24° or 54° light beam angle
- Three different light output levels, up to 5250lm (4000K)
- High colour rendering index, CRI>90
- High color consistency, SDCM≤3 LED source
- Available with in 3000K and 4000K light colour temperatures
- Non Dimmable
- Global adapter GA69, mounting on Global Trac Pro 3 circuit tracks
- Available in white RAL9016 or black RAL9005 housing colour
- Lifespan: 72,000 hours (L70B50)
- 5 years warranty

### Product information

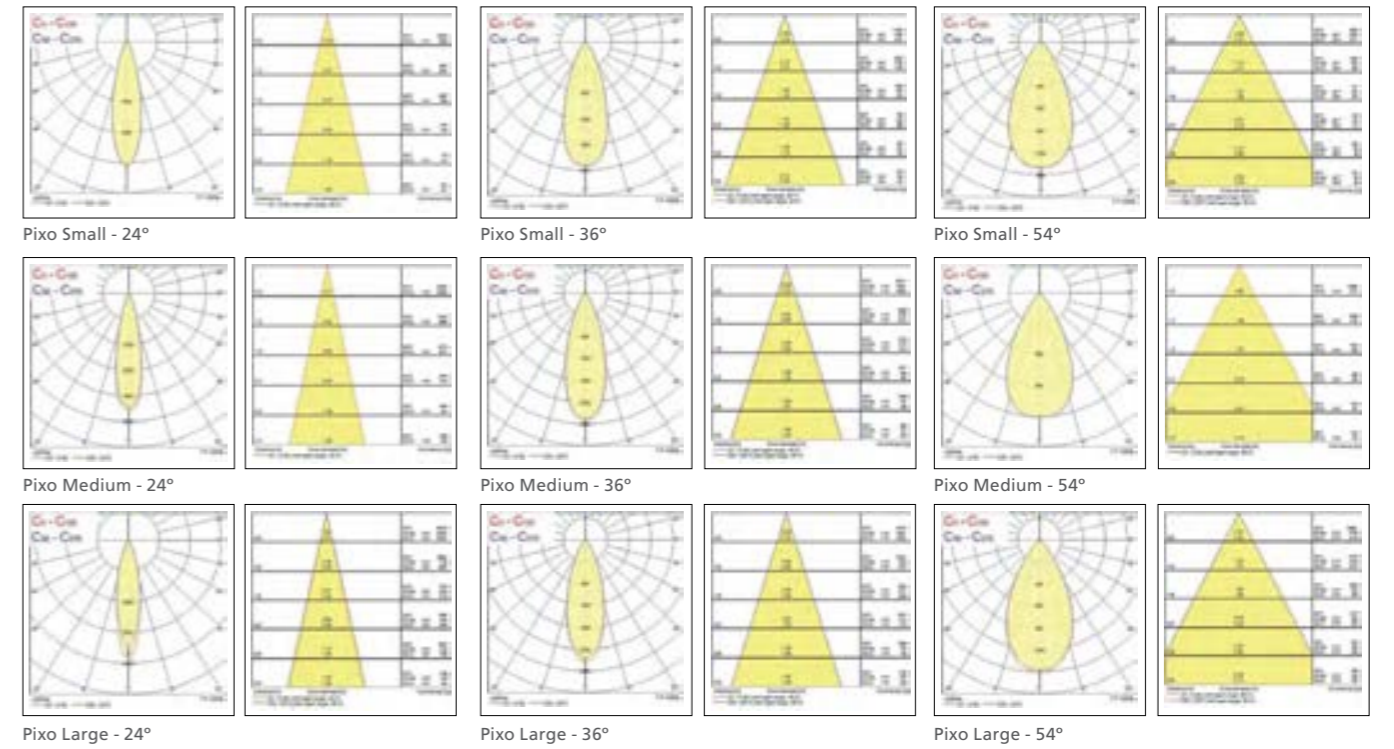
Code	Description	Finish	Colour Temperature (K)	Colour Rendering Index	Beam Angle (°)	Fixture Lumen (lm)	System Power Consumption (W)	Fixture Efficacy (lm/W)	Driver	Voltage (V)
<b>Pixo</b>										
<b>3000K</b>										
0005440	Pixo Small 1450lm 930 NB MB WB WHT	White	3000	90	36° (24°-54°)	1496	17	88	Electronic	220-240
0005441	Pixo Small 1450lm 930 NB MB WB BLK	Black	3000	90	36° (24°-54°)	1496	17	88	Electronic	220-240
0005442	Pixo Medium 2800lm 930 NB MB WB WHT	White	3000	90	36° (24°-54°)	2835	32	89	Electronic	220-240
0005443	Pixo Medium 2800lm 930 NB MB WB BLK	Black	3000	90	36° (24°-54°)	2835	32	89	Electronic	220-240
0005444	Pixo Large 5000lm 930 NB MB WB WHT	White	3000	90	36° (24°-54°)	4725	54	88	Electronic	220-240
0005445	Pixo Large 5000lm 930 NB MB WB BLK	Black	3000	90	36° (24°-54°)	4725	54	88	Electronic	220-240
<b>4000K</b>										
0005446	Pixo Small 1600lm 940 NB MB WB WHT	White	4000	90	36° (24°-54°)	1615	17	95	Electronic	220-240
0005447	Pixo Small 1600lm 940 NB MB WB BLK	Black	4000	90	36° (24°-54°)	1615	17	95	Electronic	220-240
0005448	Pixo Medium 3100lm 940 NB MB WB WHT	White	4000	90	36° (24°-54°)	3024	32	95	Electronic	220-240
0005449	Pixo Medium 3100lm 940 NB MB WB BLK	Black	4000	90	36° (24°-54°)	3024	32	95	Electronic	220-240
0005450	Pixo Large 5200lm 940 NB MB WB WHT	White	4000	90	36° (24°-54°)	5250	54	97	Electronic	220-240
0005451	Pixo Large 5200lm 940 NB MB WB BLK	Black	4000	90	36° (24°-54°)	5250	54	97	Electronic	220-240

Legend: 930 = 90 CRI & 3000K CCT; 940 = 90 CRI & 4000K CCT; lm = lumen; BLK = Black; WHT = White; NB = Narrow beam; MB = Medium beam; WB = Wide beam.

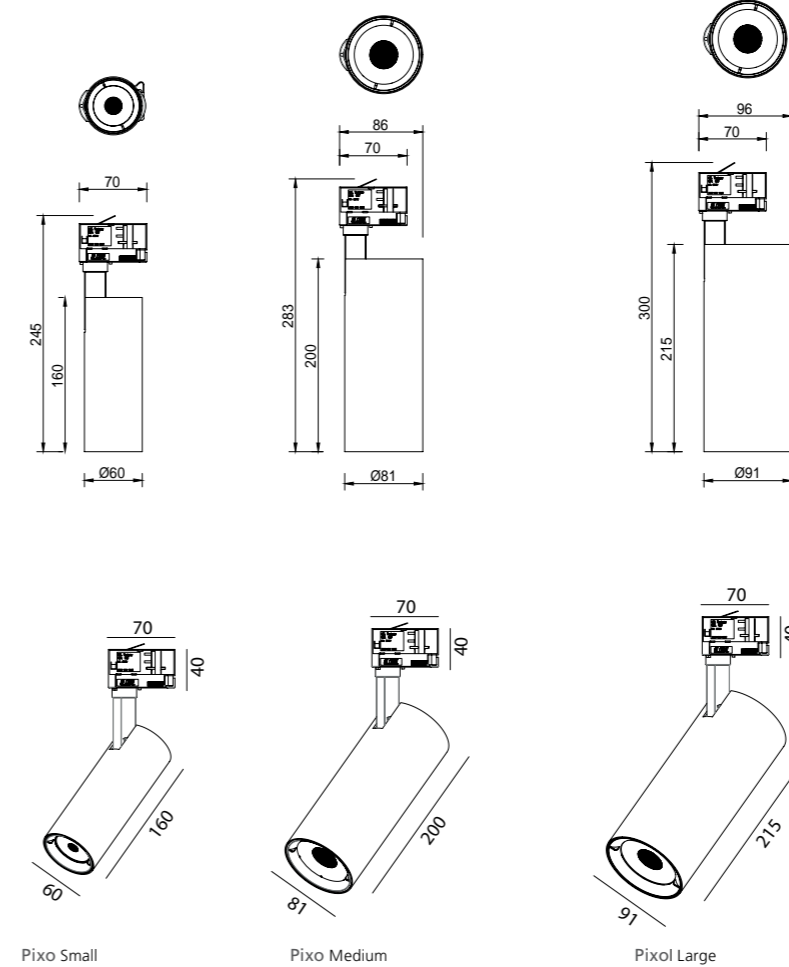
### Additional images



### Photometric Data



### Dimensions (mm)



**SYLVANIA**



## Slim, slick and flexible

LENZO



The new LENZO improves the Sylvania track spot range with a simple and slick integral design fixture, with no driver box, no visible screws and full flexible beam angle setting.

The fixtures emit extremely precise light beams due to the high quality lens, which can be set from 8° to 45° for the small version and between 20° to 50° for the large version.



## Features

- Simple and slick integral design with no driver box and without any visible screws
- Adjustable beam angle 8°-45° (Small) or 20°-50° (Large)
- High colour rendering index CRI>90
- Dimmable with on-board slider dimmer at the back of the fixture
- Available in black and white
- CCT 3000K or 4000K
- Equipped with GA69 adaptor, mounting on Global Trac Pro 3 circuit track
- Lifetime 50,000 hours at L70B50

## Product Information

Code	Description	Fixture Colour	Total Power Consumption (W)	Fixture Lumen (lm)	Luminaire Efficacy (lm/W)	Correlated Colour Temp (K)	Control Technology Type	Mains voltage (V)	Drive Current (mA)	IP Rating	IK Rating	Mounting method
<b>LENZO</b>												
<b>Small</b>												
0005522	LENZO S 15W 500LM 930 GLB O/B WHITE	RAL 9016 - Traffic white / Bezel	15	240/720	48	3000	Onboard pot	220-240	350	IP20	IK02	Track mounting
0005523	LENZO S 15W 500LM 930 GLB O/B BLACK	RAL 9005 - Jet black	15	200/500	33	3000	Onboard pot	220-240	350	IP20	IK02	Track mounting
0005524	LENZO S 15W 500LM 940 GLB O/B WHITE	RAL 9016 - Traffic white / Bezel	15	240/720	48	4000	Onboard pot	220-240	350	IP20	IK02	Track mounting
0005525	LENZO S 15W 500LM 940 GLB O/B BLACK	RAL 9005 - Jet black	15	200/500	33	4000	Onboard pot	220-240	350	IP20	IK02	Track mounting
<b>Large</b>												
0005526	LENZO L 32W 2000LM 930 GLB O/B WHITE	RAL 9016 - Traffic white / Bezel	28	1000/2000	70	3000	Onboard pot	220-240	750	IP20	IK02	Track mounting
0005527	LENZO L 32W 2000LM 930 GLB O/B BLACK	RAL 9005 - Jet black	28	800/1600	56	3000	Onboard pot	220-240	750	IP20	IK02	Track mounting
0005528	LENZO L 32W 2000LM 940 GLB O/B WHITE	RAL 9016 - Traffic white / Bezel	28	1000/2000	76	4000	Onboard pot	220-240	750	IP20	IK02	Track mounting
0005529	LENZO L 32W 2000LM 940 GLB O/B BLACK	RAL 9005 - Jet black	28	800/1600	57	4000	Onboard pot	220-240	750	IP20	IK02	Track mounting

## Photometric Data

### LENZO S



3000K

4000K

### LENZO L

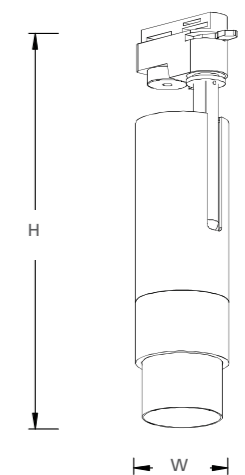


3000K

4000K

## Dimensions (mm)

	H	W
LENZO - Small	261	60
LENZO - Large	305	76



**SYLVANIA**



## Decorative LED spotlights



### **START** Track Spot

START Track Spot is the perfect solution for Retail thanks to its striking design with a decorative heatsink and white or black housing. The range comes in small and large size with two different light outputs each and a range of optics to suit every lighting need. START Track Spot offers a high colour rendering index CRI>90 option and is IR / UV free light source without heat radiation.

# START Track Spot S



## Features

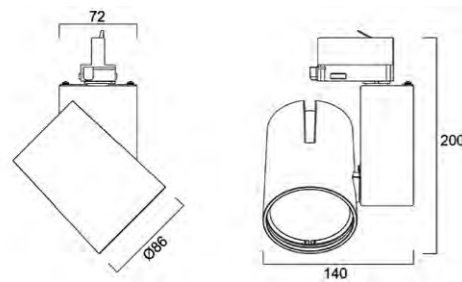
- Decorative heat sink design
- Two different light outputs (14 or 24W) up to 2155lm (4000K)
- High colour rendering index, CRI>90
- Available in 3000K or 4000K colour temperatures
- Fresnel Lens accessory available for more precise output of Narrow Beams optic versions
- White or Black housing
- Non Dimmable
- For mounting on Global Trac Pro 3 circuit tracks
- IR/UV free light source without heat radiation
- Energy Class: A++, A+, A

## Product information

Code	Description	Paint Finish	System Power (W)	Fixture Lumens (lm)	Fixture Efficacy (lm/W)	Beam Angle (°)	Colour Temp (K)	Colour Rendering Index (CRI)	Driver	Lifetime (hours)
<b>START Track Spot S</b>										
0004859	START Track Spot S 1275lm 930 NB WHT	White	14	1284	92	12	3000	90	Electronic	50,000
0004860	START Track Spot S 1250lm 930 MB WHT	White	14	1262	90	36	3000	90	Electronic	50,000
0004861	START Track Spot S 1250lm 930 WB WHT	White	14	1262	90	64	3000	90	Electronic	50,000
0004862	START Track Spot S 1975lm 930 NB WHT	White	24	1987	83	12	3000	90	Electronic	50,000
0004863	START Track Spot S 1950lm 930 MB WHT	White	24	1944	81	36	3000	90	Electronic	50,000
0004864	START Track Spot S 1925lm 930 WB WHT	White	24	1928	80	64	3000	90	Electronic	50,000
0004871	START Track Spot S 1350lm 940 NB WHT	White	14	1349	96	12	4000	90	Electronic	50,000
0004872	START Track Spot S 1350lm 940 MB WHT	White	14	1359	97	36	4000	90	Electronic	50,000
0004873	START Track Spot S 1350lm 940 WB WHT	White	14	1352	97	64	4000	90	Electronic	50,000
0004874	START Track Spot S 2150lm 940 NB WHT	White	24	2155	90	12	4000	90	Electronic	50,000
0004875	START Track Spot S 2150lm 940 MB WHT	White	24	2141	89	36	4000	90	Electronic	50,000
0004876	START Track Spot S 2075lm 940 WB WHT	White	24	2087	87	64	4000	90	Electronic	50,000
0004883	START Track Spot S 1275lm 930 NB BLK	Black	14	1284	92	12	3000	90	Electronic	50,000
0004884	START Track Spot S 1250lm 930 MB BLK	Black	14	1262	90	36	3000	90	Electronic	50,000
0004885	START Track Spot S 1250lm 930 WB BLK	Black	14	1262	90	64	3000	90	Electronic	50,000
0004886	START Track Spot S 1975lm 930 NB BLK	Black	24	1987	83	12	3000	90	Electronic	50,000
0004887	START Track Spot S 1950lm 930 MB BLK	Black	24	1944	81	36	3000	90	Electronic	50,000
0004888	START Track Spot S 1925lm 930 WB BLK	Black	24	1928	80	64	3000	90	Electronic	50,000
0004895	START Track Spot S 1350lm 940 NB BLK	Black	14	1349	96	12	4000	90	Electronic	50,000
0004896	START Track Spot S 1350lm 940 MB BLK	Black	14	1359	97	36	4000	90	Electronic	50,000
0004897	START Track Spot S 1350lm 940 WB BLK	Black	14	1352	97	64	4000	90	Electronic	50,000
0004898	START Track Spot S 2150lm 940 NB BLK	Black	24	2155	90	12	4000	90	Electronic	50,000
0004899	START Track Spot S 2150lm 940 MB BLK	Black	24	2141	89	36	4000	90	Electronic	50,000
0004900	START Track Spot S 2075lm 940 WB BLK	Black	24	2087	87	64	4000	90	Electronic	50,000

Legend: S = Small; L = Large; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; 930 = CRI>90 3000K; 940 = CRI>90 4000K; All luminaires are supplied with Global Trac Adapter GA69

## Dimensions (mm)

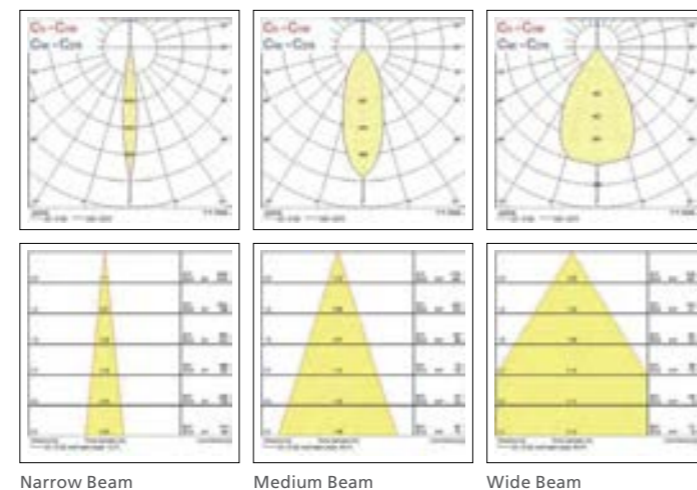


### Accessories

0004919 START Track Spot S NB Fresnel Lens \*

\*Lens is intended for use with Narrow Beams only

## Photometric Data



Narrow Beam

Medium Beam

Wide Beam

# START Track Spot S DALI



## Features

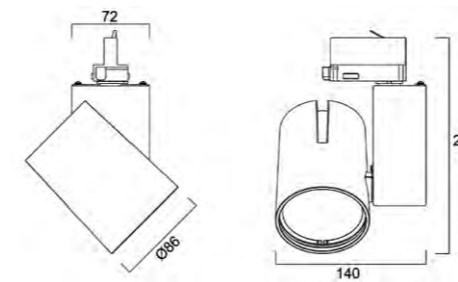
- Decorative heat sink design
- Two different light outputs (14 or 24W) up to 2155lm (4000K)
- High colour rendering index, CRI>90
- Available in 3000K or 4000K colour temperatures
- Fresnel Lens accessory available for more precise output of Narrow Beams optic versions
- White or Black housing
- DALI dimmable
- For mounting on Global Trac Pulse tracks
- IR/UV free light source without heat radiation
- Energy Class: A++, A+, A

## Product information

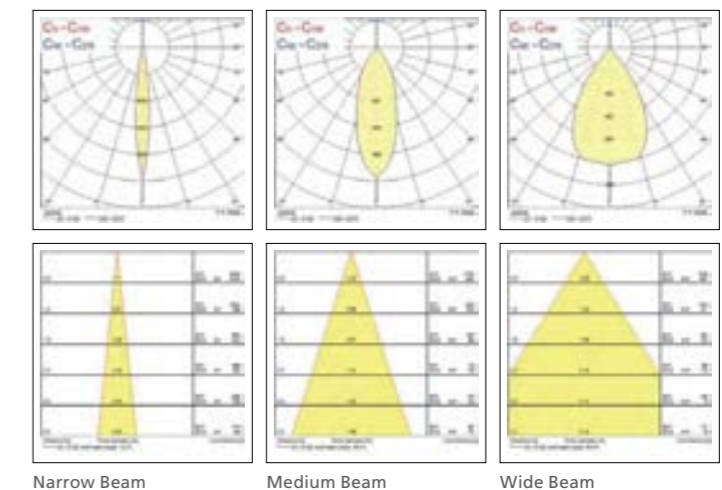
Code	Description	Paint Finish	System Power (W)	Fixture Lumens (lm)	Fixture Efficacy (lm/W)	Beam Angle (°)	Colour Temp (K)	Colour Rendering Index (CRI)	Driver	Lifetime (hours)
<b>START Track Spot S DALI</b>										
0004923	START Track Spot S DALI 1250lm 930 MB WHT	White	14	1262	90	36	3000	90	DALI	50,000
0004924	START Track Spot S DALI 1250lm 930 WB WHT	White	14	1262	90	64	3000	90	DALI	50,000
0004925	START Track Spot S DALI 1950lm 930 MB WHT	White	24	1944	81	36	3000	90	DALI	50,000
0004926	START Track Spot S DALI 1925lm 930 WB WHT	White	24	1928	80	64	3000	90	DALI	50,000
0004931	START Track Spot S DALI 1350lm 940 MB WHT	White	14	1359	97	36	4000	90	DALI	50,000
0004932	START Track Spot S DALI 1350lm 940 WB WHT	White	14	1352	97	64	4000	90	DALI	50,000
0004933	START Track Spot S DALI 2150lm 940 MB WHT	White	24	2141	89	36	4000	90	DALI	50,000
0004934	START Track Spot S DALI 2075lm 940 WB WHT	White	24	2087	87	64	4000	90	DALI	50,000
0004939	START Track Spot S DALI 1250lm 930 MB BLK	Black	14	1262	90	36	3000	90	DALI	50,000
0004940	START Track Spot S DALI 1250lm 930 WB BLK	Black	14	1262	90	64	3000	90	DALI	50,000
0004941	START Track Spot S DALI 1950lm 930 MB BLK	Black	24	1944	81	36	3000	90	DALI	50,000
0004942	START Track Spot S DALI 1925lm 930 WB BLK	Black	24	1928	80	64	3000	90	DALI	50,000
0004947	START Track Spot S DALI 1350lm 940 MB BLK	Black	14	1359	97	36	4000	90	DALI	50,000
0004948	START Track Spot S DALI 1350lm 940 WB BLK	Black	14	1352	97	64	4000	90	DALI	50,000
0004949	START Track Spot S DALI 2150lm 940 MB BLK	Black	24	2141	89	36	4000	90	DALI	50,000
0004950	START Track Spot S DALI 2075lm 940 WB BLK	Black	24	2087	87	64	4000	90	DALI	50,000

Legend: S = Small; L = Large; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; 930 = CRI>90 3000K; 940 = CRI>90 4000K; All luminaires are supplied with Global Trac Adapter GAC69

## Dimensions (mm)



## Photometric Data



Narrow Beam

Medium Beam

Wide Beam

# START Track Spot S HO



## Features

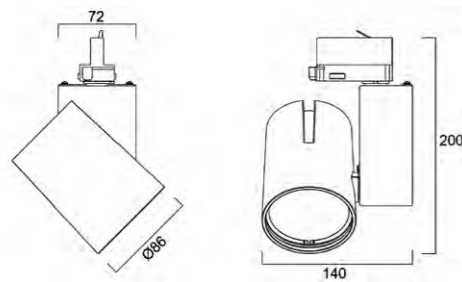
- Decorative heat sink design
- Two different light outputs (14 or 24W) up to 2529lm (4000K)
- Colour rendering index CRI>80
- Available in 3000K or 4000K colour temperatures
- Fresnel Lens accessory available for more precise output of Narrow Beams optic versions
- White or Black housing
- Non Dimmable
- For mounting on Global Trac 3 circuit tracks
- IR/UV free light source without heat radiation
- Energy Class: A++, A+, A

## Product information

Code	Description	Paint Finish	System Power (W)	Fixture Lumens (lm)	Fixture Efficacy (lm/W)	Beam Angle (°)	Colour Temp (K)	Colour Rendering Index (CRI)	Driver	Lifetime (hours)
<b>START Track Spot S HO</b>										
0004811	START Track Spot S HO 1550lm 830 NB WHT	White	14	1551	111	12	3000	80	Electronic	50,000
0004812	START Track Spot S HO 1500lm 830 MB WHT	White	14	1508	108	36	3000	80	Electronic	50,000
0004813	START Track Spot S HO 1500lm 830 WB WHT	White	14	1498	107	64	3000	80	Electronic	50,000
0004814	START Track Spot S HO 2350lm 830 NB WHT	White	24	2334	97	12	3000	80	Electronic	50,000
0004815	START Track Spot S HO 2325lm 830 MB WHT	White	24	2314	96	36	3000	80	Electronic	50,000
0004816	START Track Spot S HO 2325lm 830 WB WHT	White	24	2318	97	64	3000	80	Electronic	50,000
0004823	START Track Spot S HO 1600lm 840 NB WHT	White	14	1608	115	12	4000	80	Electronic	50,000
0004824	START Track Spot S HO 1600lm 840 MB WHT	White	14	1598	114	36	4000	80	Electronic	50,000
0004825	START Track Spot S HO 1550lm 840 WB WHT	White	14	1558	111	64	4000	80	Electronic	50,000
0004826	START Track Spot S HO 2525lm 840 NB WHT	White	24	2529	105	12	4000	80	Electronic	50,000
0004827	START Track Spot S HO 2475lm 840 MB WHT	White	24	2487	104	36	4000	80	Electronic	50,000
0004828	START Track Spot S HO 2475lm 840 WB WHT	White	24	2476	103	64	4000	80	Electronic	50,000
0004835	START Track Spot S HO 1550lm 830 NB BLK	Black	14	1551	111	12	3000	80	Electronic	50,000
0004836	START Track Spot S HO 1500lm 830 MB BLK	Black	14	1508	108	36	3000	80	Electronic	50,000
0004837	START Track Spot S HO 1500lm 830 WB BLK	Black	14	1498	107	64	3000	80	Electronic	50,000
0004838	START Track Spot S HO 2350lm 830 NB BLK	Black	24	2334	97	12	3000	80	Electronic	50,000
0004839	START Track Spot S HO 2325lm 830 MB BLK	Black	24	2314	96	36	3000	80	Electronic	50,000
0004840	START Track Spot S HO 2325lm 830 WB BLK	Black	24	2318	97	64	3000	80	Electronic	50,000
0004847	START Track Spot S HO 1600lm 840 NB BLK	Black	14	1608	115	12	4000	80	Electronic	50,000
0004848	START Track Spot S HO 1600lm 840 MB BLK	Black	14	1598	114	36	4000	80	Electronic	50,000
0004849	START Track Spot S HO 1550lm 840 WB BLK	Black	14	1558	111	64	4000	80	Electronic	50,000
0004850	START Track Spot S HO 2525lm 840 NB BLK	Black	24	2529	105	12	4000	80	Electronic	50,000
0004851	START Track Spot S HO 2475lm 840 MB BLK	Black	24	2487	104	36	4000	80	Electronic	50,000
0004852	START Track Spot S HO 2475lm 840 WB BLK	Black	24	2476	103	64	4000	80	Electronic	50,000

Legend: S = Small; L = Large; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; 830 = CRI>80 3000K; 840 = CRI>80 4000K; HO = High Output  
All luminaires are supplied with Global Trac Adapter GA69

## Dimensions (mm)

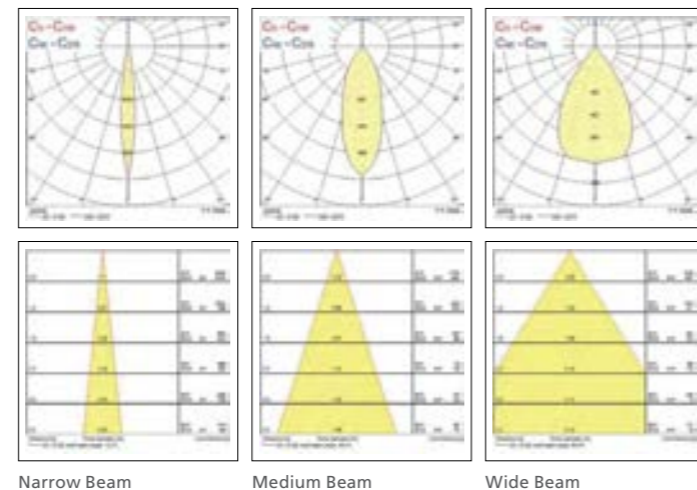


### Accessories

0004919 START Track Spot S NB Fresnel Lens \*

\*Lens is intended for use with Narrow Beams only

## Photometric Data



Narrow Beam Medium Beam Wide Beam

# START Track Spot L



## Features

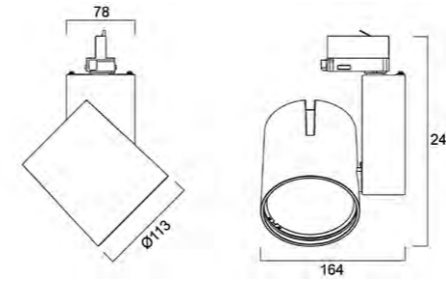
- Decorative heat sink design
- Two different light outputs (35 or 55W) up to 4965lm (4000K)
- High colour rendering index, CRI>90
- Available in 3000K or 4000K colour temperatures
- Fresnel Lens accessory available for more precise output of Narrow Beams optic versions
- White or Black housing
- Non Dimmable
- For mounting on Global Trac Pro 3 circuit tracks
- IR/UV free light source without heat radiation
- Energy Class: A++, A+, A

## Product information

Code	Description	Paint Finish	System Power (W)	Fixture Lumens (lm)	Fixture Efficacy (lm/W)	Beam Angle (°)	Colour Temp (K)	Colour Rendering Index (CRI)	Driver	Lifetime (hours)
<b>START Track Spot L</b>										
0004865	START Track Spot L 3300lm 930 NB WHT	White	35	3287	94	15	3000	90	Electronic	50,000
0004866	START Track Spot L 3300lm 930 MB WHT	White	35	3306	94	38	3000	90	Electronic	50,000
0004867	START Track Spot L 3250lm 930 WB WHT	White	35	3260	93	52	3000	90	Electronic	50,000
0004868	START Track Spot L 4400lm 930 NB WHT	White	55	4416	80	15	3000	90	Electronic	50,000
0004869	START Track Spot L 4450lm 930 MB WHT	White	55	4448	81	38	3000	90	Electronic	50,000
0004870	START Track Spot L 4400lm 930 WB WHT	White	55	4405	80	52	3000	90	Electronic	50,000
0004877	START Track Spot L 3600lm 940 NB WHT	White	35	3593	103	15	4000	90	Electronic	50,000
0004878	START Track Spot L 3600lm 940 MB WHT	White	35	3616	103	38	4000	90	Electronic	50,000
0004879	START Track Spot L 3550lm 940 WB WHT	White	35	3562	102	52	4000	90	Electronic	50,000
0004880	START Track Spot L 4950lm 940 NB WHT	White	55	4965	90	15	4000	90	Electronic	50,000
0004881	START Track Spot L 4900lm 940 MB WHT	White	55	4897	89	38	4000	90	Electronic	50,000
0004882	START Track Spot L 4800lm 940 WB WHT	White	55	4824	88	52	4000	90	Electronic	50,000
0004889	START Track Spot L 3300lm 930 NB BLK	Black	35	3287	94	15	3000	90	Electronic	50,000
0004890	START Track Spot L 3300lm 930 MB BLK	Black	35	3306	94	38	3000	90	Electronic	50,000
0004891	START Track Spot L 3250lm 930 WB BLK	Black	35	3260	93	52	3000	90	Electronic	50,000
0004892	START Track Spot L 4400lm 930 NB BLK	Black	55	4416	80	15	3000	90	Electronic	50,000
0004893	START Track Spot L 4450lm 930 MB BLK	Black	55	4448	81	38	3000	90	Electronic	50,000
0004894	START Track Spot L 4400lm 930 WB BLK	Black	55	4405	80	52	3000	90	Electronic	50,000
0004901	START Track Spot L 3600lm 940 NB BLK	Black	35	3593	103	15	4000	90	Electronic	50,000
0004902	START Track Spot L 3600lm 940 MB BLK	Black	35	3616	103	38	4000	90	Electronic	50,000
0004903	START Track Spot L 3550lm 940 WB BLK	Black	35	3562	102	52	4000	90	Electronic	50,000
0004904	START Track Spot L 4950lm 940 NB BLK	Black	55	4965	90	15	4000	90	Electronic	50,000
0004905	START Track Spot L 4900lm 940 MB BLK	Black	55	4897	89	38	4000	90	Electronic	50,000
0004906	START Track Spot L 4800lm 940 WB BLK	Black	55	4824	88	52	4000	90	Electronic	50,000

Legend: S = Small; L = Large; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; 830 = CRI>80 3000K; 840 = CRI>80 4000K;  
All luminaires are supplied with Global Trac Adapter GA69

## Dimensions (mm)

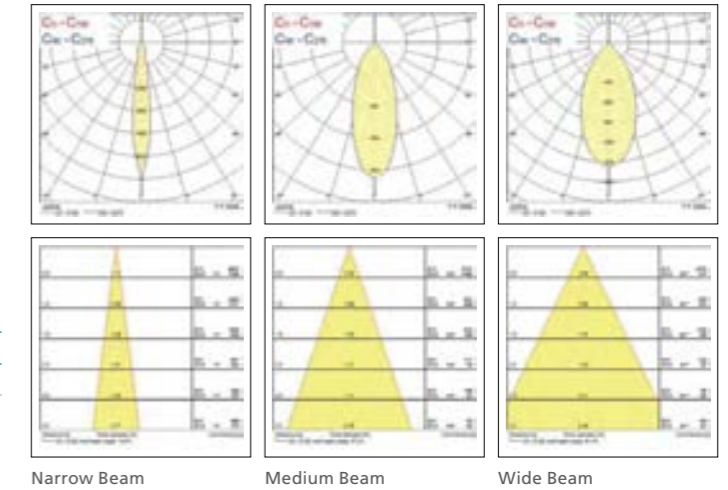


### Accessories

0004920 START Track Spot L NB Fresnel Lens \*

\*Lens is intended for use with Narrow Beams only

## Photometric Data



Narrow Beam Medium Beam Wide Beam

# START Track Spot L DALI



## Features

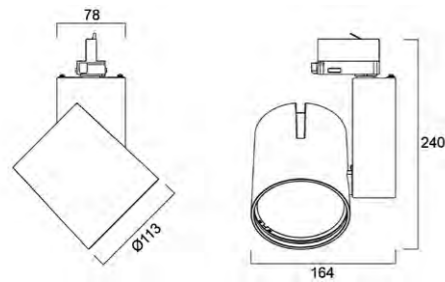
- Decorative heat sink design
- Two different light outputs (14 or 24W) up to 2155lm (4000K)
- High colour rendering index, CRI>90
- Available in 3000K or 4000K colour temperatures
- Fresnel Lens accessory available for more precise output of Narrow Beams optic versions
- White or Black housing
- DALI dimmable
- For mounting on Global Trac Pulse
- IR/UV free light source without heat radiation
- Energy Class: A++, A+, A

## Product information

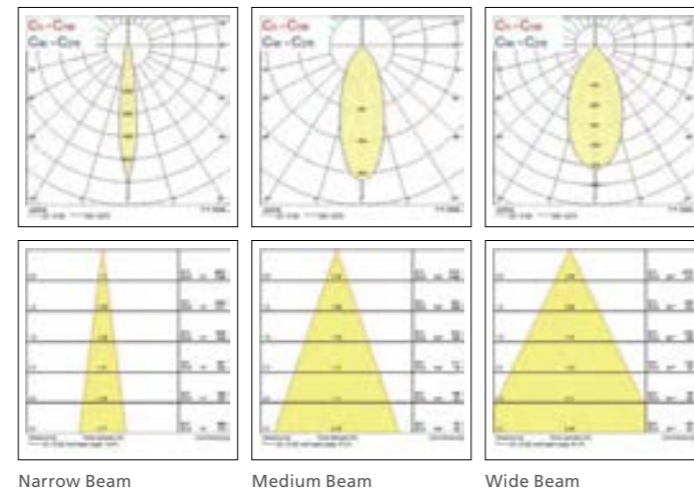
Code	Description	Paint Finish	System Power (W)	Fixture Lumens (lm)	Fixture Efficacy (lm/W)	Beam Angle (°)	Colour Temp (K)	Colour Rendering Index (CRI)	Driver	Lifetime (hours)
<b>START Track Spot L DALI</b>										
0004927	START Track Spot L DALI 3300lm 930 MB WHT	White	35	3306	94	38	3000	90	DALI	50,000
0004928	START Track Spot L DALI 3250lm 930 WB WHT	White	35	3260	93	52	3000	90	DALI	50,000
0004929	START Track Spot L DALI 4450lm 930 MB WHT	White	55	4448	81	38	3000	90	DALI	50,000
0004930	START Track Spot L DALI 4400lm 930 WB WHT	White	55	4405	80	52	3000	90	DALI	50,000
0004935	START Track Spot L DALI 3600lm 940 MB WHT	White	35	3616	103	38	4000	90	DALI	50,000
0004936	START Track Spot L DALI 3550lm 940 WB WHT	White	35	3562	102	52	4000	90	DALI	50,000
0004937	START Track Spot L DALI 4900lm 940 MB WHT	White	55	4897	89	38	4000	90	DALI	50,000
0004938	START Track Spot L DALI 4800lm 940 WB WHT	White	55	4824	88	52	4000	90	DALI	50,000
0004943	START Track Spot L DALI 3300lm 930 MB BLK	Black	35	3306	94	38	3000	90	DALI	50,000
0004944	START Track Spot L DALI 3250lm 930 WB BLK	Black	35	3260	93	52	3000	90	DALI	50,000
0004945	START Track Spot L DALI 4450lm 930 MB BLK	Black	55	4448	81	38	3000	90	DALI	50,000
0004946	START Track Spot L DALI 4400lm 930 WB BLK	Black	55	4405	80	52	3000	90	DALI	50,000
0004951	START Track Spot L DALI 3600lm 940 MB BLK	Black	35	3616	103	38	4000	90	DALI	50,000
0004952	START Track Spot L DALI 3550lm 940 WB BLK	Black	35	3562	102	52	4000	90	DALI	50,000
0004953	START Track Spot L DALI 4900lm 940 MB BLK	Black	55	4897	89	38	4000	90	DALI	50,000
0004954	START Track Spot L DALI 4800lm 940 WB BLK	Black	55	4824	88	52	4000	90	DALI	50,000

Legend: S = Small; L = Large; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; 830 = CRI>80 3000K; 840 = CRI>80 4000K; All luminaires are supplied with Global Trac Adapter GAC69

## Dimensions (mm)



## Photometric Data



# START Track Spot L HO



## Features

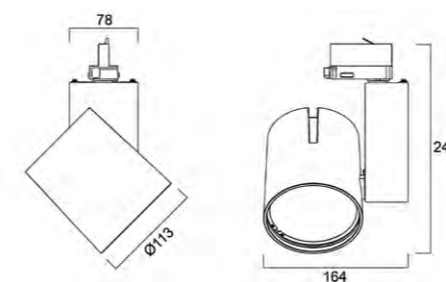
- Decorative heat sink design
- Two different light outputs (35 or 55W) up to 5449lm (4000K)
- Colour rendering index CRI>80
- Available in 3000K or 4000K colour temperatures
- Fresnel Lens accessory available for more precise output of Narrow Beams optic versions
- White or Black housing
- Non Dimmable
- For mounting on Global Trac Pro 3 circuit
- tracks
- IR/UV free light source without heat radiation
- Energy Class: A++, A+, A

## Product information

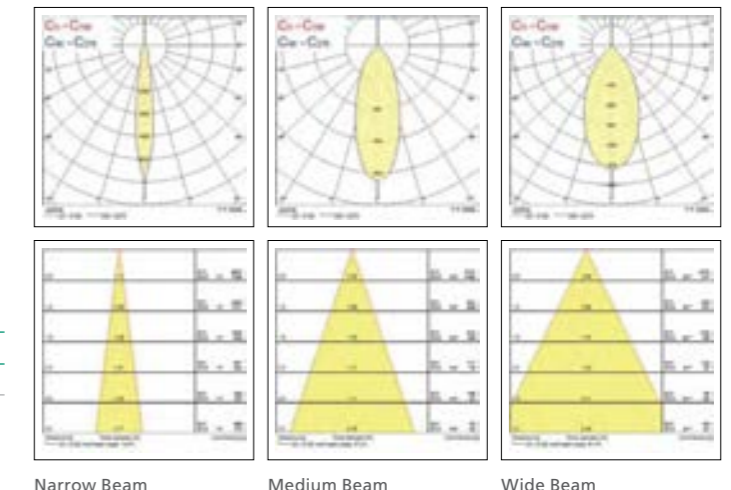
Code	Description	Paint Finish	System Power (W)	Fixture Lumens (lm)	Fixture Efficacy (lm/W)	Beam Angle (°)	Colour Temp (K)	Colour Rendering Index (CRI)	Driver	Lifetime (hours)
<b>START Track Spot L HO</b>										
0004817	START Track Spot L HO 4000lm 830 NB WHT	White	35	4005	114	15	3000	80	Electronic	50,000
0004818	START Track Spot L HO 4000lm 830 MB WHT	White	35	4008	115	38	3000	80	Electronic	50,000
0004819	START Track Spot L HO 3950lm 830 WB WHT	White	35	3943	113	52	3000	80	Electronic	50,000
0004820	START Track Spot L HO 5400lm 830 NB WHT	White	55	5449	99	15	3000	80	Electronic	50,000
0004821	START Track Spot L HO 5400lm 830 MB WHT	White	55	5381	98	38	3000	80	Electronic	50,000
0004822	START Track Spot L HO 5300lm 830 WB WHT	White	55	5298	96	52	3000	80	Electronic	50,000
0004829	START Track Spot L HO 4200lm 840 NB WHT	White	35	4174	119	15	4000	80	Electronic	50,000
0004830	START Track Spot L HO 4000lm 840 MB WHT	White	35	4017	115	38	4000	80	Electronic	50,000
0004831	START Track Spot L HO 4000lm 840 WB WHT	White	35	4010	115	52	4000	80	Electronic	50,000
0004832	START Track Spot L HO 5400lm 840 NB WHT	White	55	5426	99	15	4000	80	Electronic	50,000
0004833	START Track Spot L HO 5400lm 840 MB WHT	White	55	5378	98	38	4000	80	Electronic	50,000
0004834	START Track Spot L HO 5300lm 840 WB WHT	White	55	5320	97	52	4000	80	Electronic	50,000
0004841	START Track Spot L HO 4000lm 830 NB BLK	Black	35	4005	114	15	3000	80	Electronic	50,000
0004842	START Track Spot L HO 4000lm 830 MB BLK	Black	35	4008	115	38	3000	80	Electronic	50,000
0004843	START Track Spot L HO 3950lm 830 WB BLK	Black	35	3943	113	52	3000	80	Electronic	50,000
0004844	START Track Spot L HO 5400lm 830 NB BLK	Black	55	5449	99	15	3000	80	Electronic	50,000
0004845	START Track Spot L HO 5400lm 830 MB BLK	Black	55	5381	98	38	3000	80	Electronic	50,000
0004846	START Track Spot L HO 5300lm 830 WB BLK	Black	55	5298	96	52	3000	80	Electronic	50,000
0004853	START Track Spot L HO 4200lm 840 NB BLK	Black	35	4174	119	15	4000	80	Electronic	50,000
0004854	START Track Spot L HO 4000lm 840 MB BLK	Black	35	4017	115	38	4000	80	Electronic	50,000
0004855	START Track Spot L HO 4000lm 840 WB BLK	Black	35	4010	115	52	4000	80	Electronic	50,000
0004856	START Track Spot L HO 5400lm 840 NB BLK	Black	55	5426	99	15	4000	80	Electronic	50,000
0004857	START Track Spot L HO 5400lm 840 MB BLK	Black	55	5378	98	38	4000	80	Electronic	50,000
0004858	START Track Spot L HO 5300lm 840 WB BLK	Black	55	5320	97	52	4000	80	Electronic	50,000

Legend: S = Small; L = Large; NB = Narrow Beam; MB = Medium Beam; WB = Wide Beam; 830 = CRI>80 3000K; 840 = CRI>80 4000K; HO = High Output; All luminaires are supplied with Global Trac Adapter GA69

## Dimensions (mm)



## Photometric Data



## Accessories

0004920      START Track Spot L NB Fresnel Lens \*

\*Lens is intended for use with Narrow Beams only

**SYLVANIA**



## Comprehensive solution for track systems

### Global Trac

GLOBAL Trac range is the most flexible way of creating elegant and appropriate lighting. The modular structure of the system makes it easy to extend and adapt to various needs. GLOBAL Trac high load capacity and circuit-specific control option can be used in many different spaces, including shops, department stores, public buildings and restaurants.

There are two systems to choose from: GLOBAL Trac Pro is the professional's choice for three-phase systems and GLOBAL Trac Pulse is for new adaptable control applications. The standard colours are white and black.

GLOBAL Trac Pro is the quality choice of professionals and lighting manufacturers. Long experience and 100% quality assurance ensure problem-free operation. Diverse installation options are part of the package. All options are quick and easy to implement and result in overall cost savings.

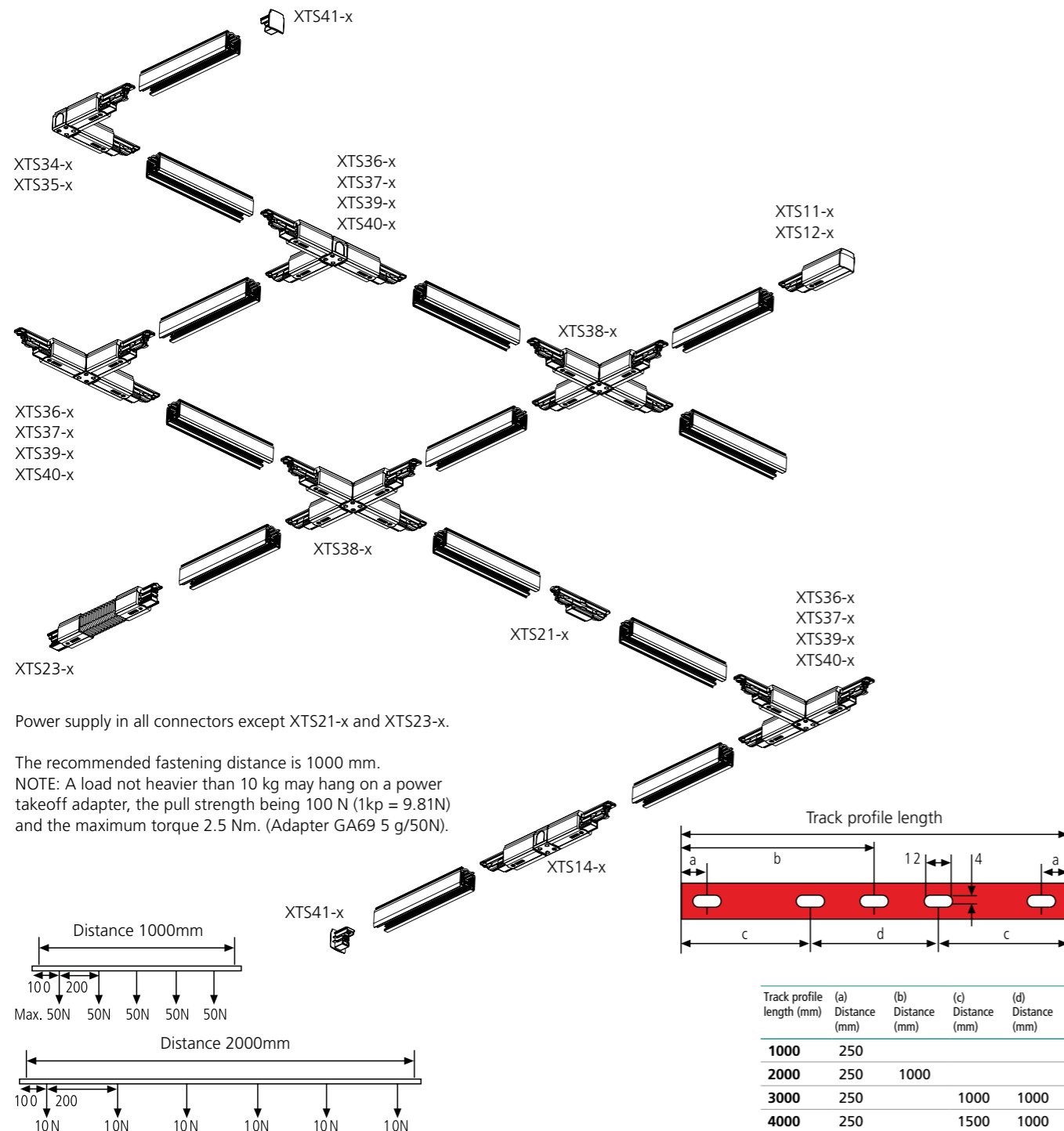
GLOBAL Trac Pulse is a lighting track system that includes both normal input voltage and wires for transmitting the DALI control signal to individual lights to create dynamic lighting. Lights can be turned on and off, brightened or dimmed flexibly as separate groups. This also saves energy, because lights are only turned on where necessary.



# Global Trac PRO

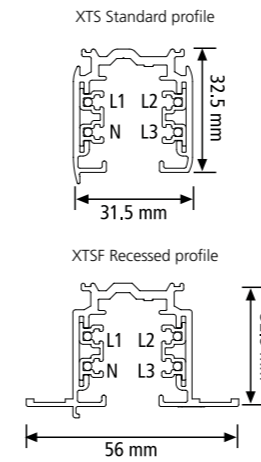
## Features

- GLOBAL Trac Pro's high load capacity and circuit-specific control option can be used in many different spaces, including shops, department stores, public buildings, restaurants
- The modular structure of the system makes it easy to extend and adapt to various needs
- Trac profiles could be cut at needed length and the conductors then folded for the insertion of the joints with the appropriate accessory
- Global Trac Pro 3-Circuit track for non-dimmable applications compatible with Global adapters and 3-Circuits non-dimmable Concord adapters
- L1/L2/L3/neutral/ground 16 A/400V
- Degree of protection IP20
- All materials used are halogen free and V0-self-extinguishing.
- Recessed, surface mounted and suspended track offering with accessories
- Available in black (RAL9005) and white (RAL9010)



# Global Trac PRO

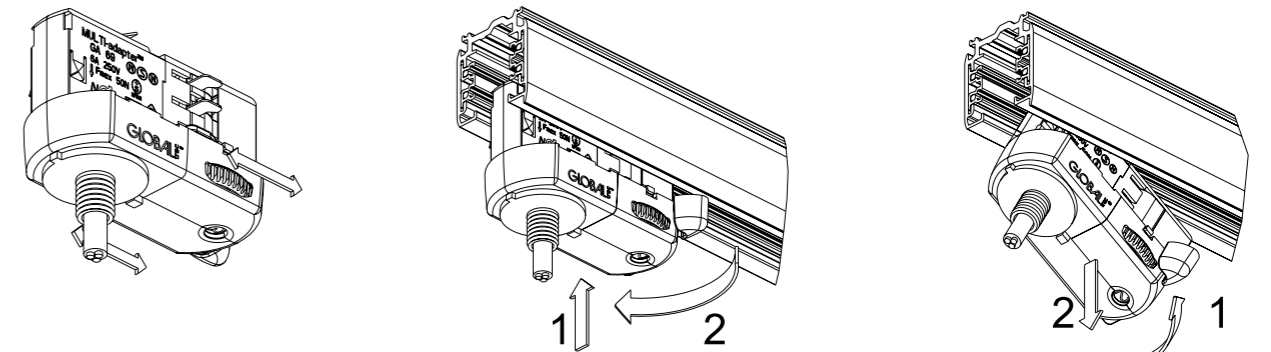
## Track Profiles



Code	Description	Colour	Polarity ridge	Nominal Length (mm)	Nominal Width (mm)	Nominal Height (mm)
<b>Global Trac PRO - Track profiles</b>						
XTS4100-2	GLB TRC PRO 1M BLK	Black RAL9005	Universal	1000	31.5	32.5
XTS4100-3	GLB TRC PRO 1M WHT	White RAL9010	Universal	1000	31.5	32.5
XTS4200-2	GLB TRC PRO 2M BLK	Black RAL9005	Universal	2000	31.5	32.5
XTS4200-3	GLB TRC PRO 2M WHT	White RAL9010	Universal	2000	31.5	32.5
XTS4300-2	GLB TRC PRO 3M BLK	Black RAL9005	Universal	3000	31.5	32.5
XTS4300-3	GLB TRC PRO 3M WHT	White RAL9010	Universal	3000	31.5	32.5
XTS4400-2	GLB TRC PRO 4M BLK	Black RAL9005	Universal	4000	31.5	32.5
XTS4400-3	GLB TRC PRO 4M WHT	White RAL9010	Universal	4000	31.5	32.5
<b>Global Trac PRO - Recessed track profiles</b>						
XTSF4100-2	GLB TRC PRO REC 1M BLK	Black RAL9005	Universal	1000	56	32.5
XTSF4100-3	GLB TRC PRO REC 1M WHT	White RAL9010	Universal	1000	56	32.5
XTSF4200-2	GLB TRC PRO REC 2M BLK	Black RAL9005	Universal	2000	56	32.5
XTSF4200-3	GLB TRC PRO REC 2M WHT	White RAL9010	Universal	2000	56	32.5
XTSF4300-2	GLB TRC PRO REC 3M BLK	Black RAL9005	Universal	3000	56	32.5
XTSF4300-3	GLB TRC PRO REC 3M WHT	White RAL9010	Universal	3000	56	32.5

Legend: GLB = Global; TRC = Track profile; REC = Recessed installation; BLK = Black; WHT = White;

## Adapter installation



Put the phase to 0 (zero) before fastening the adapter into the track rotating the wheel.

Fastening the adapter pushing it into the track profile (1) and pulling the handle (2). Choose the phase (1, 2 or 3) only after securely fastening the adapter into the track.

Put the phase to 0 (zero), push the handle back (1) and remove the adapter from the track profile (2).

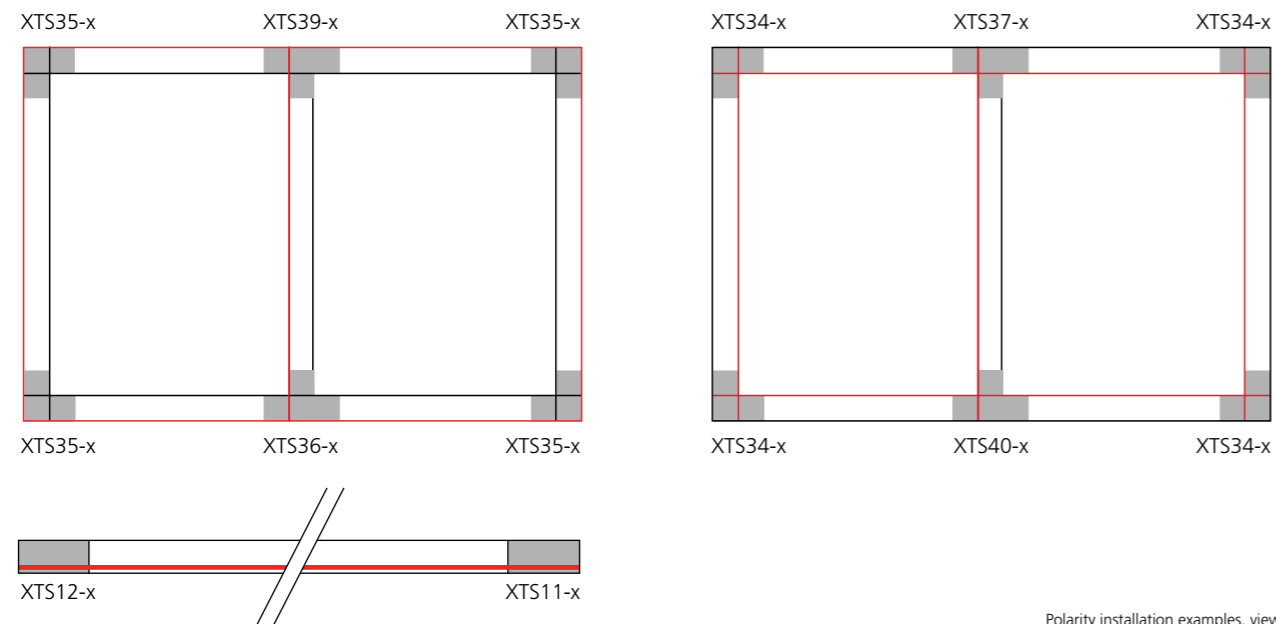
# Global Trac PRO

## Feeds and connectors

Code	Description	Colour	Polarity ridge	Nominal Length (mm)	Nominal Width (mm)	Nominal Height (mm)
<b>Global Trac PRO - End feeds</b>						
XTS11-2	GLB TRC PRO END FEED-L BLK	Black RAL9005	Left	105	32	33
XTS11-3	GLB TRC PRO END FEED-L WHT	White RAL9010	Left	105	32	33
XTS12-2	GLB TRC PRO END FEED-R BLK	Black RAL9005	Right	105	32	33
XTS12-3	GLB TRC PRO END FEED-R WHT	White RAL9010	Right	105	32	33
<b>Global Trac PRO - Mid feeds</b>						
XTS14-2	GLB TRC PRO MID FEED BLK	Black RAL9005	Universal	170	32	33
XTS14-3	GLB TRC PRO MID FEED WHT	White RAL9010	Universal	170	32	33
<b>Global Trac PRO - Connectors</b>						
XTS21-2	GLB TRC PRO STRAIGHT BLK	Black RAL9005	Universal	70	20	26
XTS21-3	GLB TRC PRO STRAIGHT WHT	White RAL9010	Universal	70	20	26
XTS23-2	GLB TRC PRO FLEX COR BLK	Black RAL9005	Universal	248	32	33
XTS23-3	GLB TRC PRO FLEX COR WHT	White RAL9010	Universal	248	32 <td 33	
XTS24-2	GLB TRC PRO ADJ COR BLK	Black RAL9005	Universal	226	32	33
XTS24-3	GLB TRC PRO ADJ COR WHT	White RAL9010	Universal	226	32	33
<b>Global Trac PRO - L feeds</b>						
XTS34-2	GLB TRC PRO L FEED IN BLK	Black RAL9005	Inside	99	99	33
XTS34-3	GLB TRC PRO L FEED IN WHT	White RAL9010	Inside	99	99	33
XTS35-2	GLB TRC PRO L FEED OUT BLK	Black RAL9005	Outside	99	99	33
XTS35-3	GLB TRC PRO L FEED OUT WHT	White RAL9010	Outside	99	99	33
<b>Global Trac PRO - T feeds</b>						
XTS36-2	GLB TRC PRO T OUT-R BLK	Black RAL9005	Outside/Right	166	99	33
XTS36-3	GLB TRC PRO T OUT-R WHT	White RAL9010	Outside/Right	166	99	33
XTS37-2	GLB TRC PRO T IN-L BLK	Black RAL9005	Inside/Left	166	99	33
XTS37-3	GLB TRC PRO T IN-L WHT	White RAL9010	Inside/Left	166	99	33
XTS39-2	GLB TRC PRO T OUT-L BLK	Black RAL9005	Outside/Left	166	99	33
XTS39-3	GLB TRC PRO T OUT-L WHT	White RAL9010	Outside/Left	166	99	33
XTS40-2	GLB TRC PRO T IN-R BLK	Black RAL9005	Inside/Right	166	99	33
XTS40-3	GLB TRC PRO T IN-R WHT	White RAL9010	Inside/Right	166	99	33
<b>Global Trac PRO - X feeds</b>						
XTS38-2	GLB TRC PRO X FEED BLK	Black RAL9005	Universal	166	166	33
XTS38-3	GLB TRC PRO X FEED WHT	White RAL9010	Universal	166	166	33

Legend: GLB = Global; ADJ = Adjustable; L = 90° joint; T = three-way joint; X = Four-way joint; BLK = Black; WHT = White;

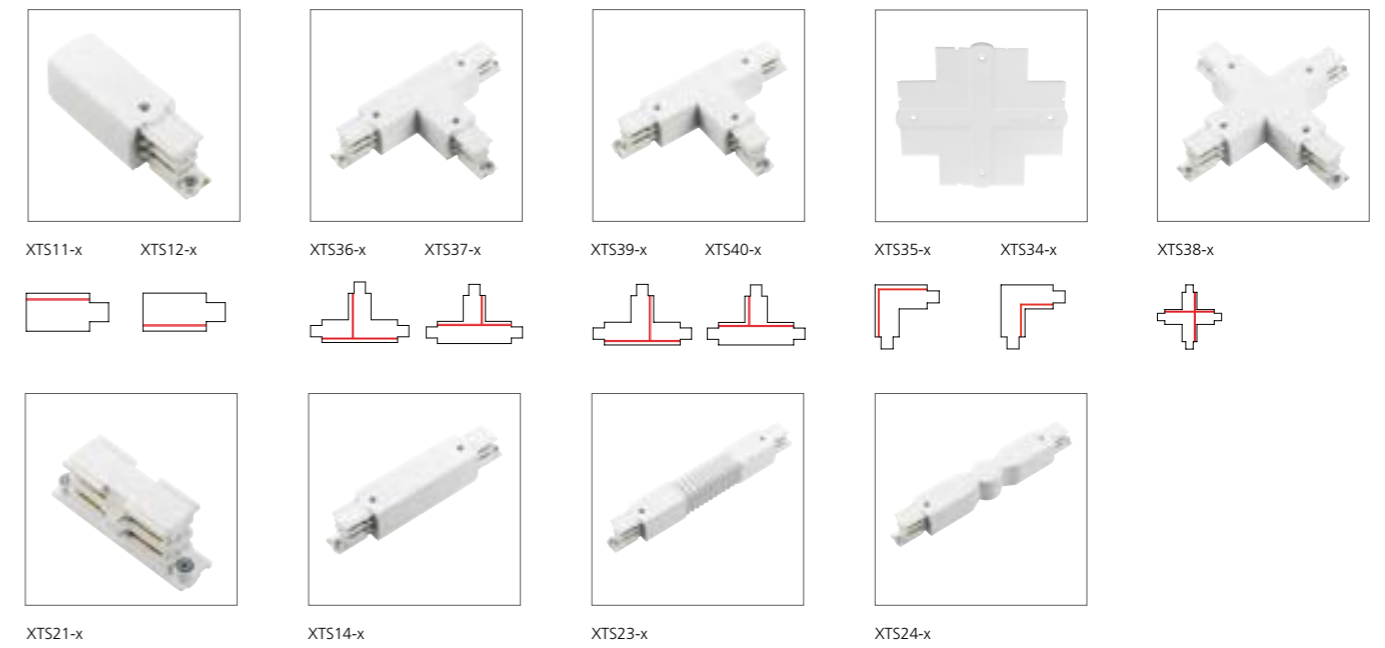
## Polarity



Polarity installation examples, view from above.

# Global Trac PRO

## Feeds and connectors



## Accessories

Code	Description	Colour	Polarity ridge	Nominal Length (mm)	Nominal Width (mm)	Nominal Height (mm)
<b>Global Trac PRO - Monopoint base</b>						
GA70-2	GLB TRC PRO FIX POINT BLK	Black RAL9005	Universal	100	100	32
GA70-3	GLB TRC PRO FIX POINT WHT	White RAL9010	Universal	100	100	32
<b>Global Trac PRO - Recessed accessory</b>						
XTSA71-2	GLB TRC FIX-POINT CONNECTOR REC BOX BLK	Black RAL9005	-	130	130	60
XTSA71-3	GLB TRC FIX-POINT CONNECTOR REC BOX WHT	White RAL9010	-	130	130	60
<b>Global Trac PRO - Feed cover</b>						
XTSF10-2	GLB TRC PRO COVER XTS11-14 BLK	Black RAL9005	-	15	25	4
XTSF10-3	GLB TRC PRO COVER XTS11-14 WHT	White RAL9010	-	15	25	4
XTSF30-2	GLB TRC PRO COVER XTS34-40 BLK	Black RAL9005	-	90	25	4
XTSF30-3	GLB TRC PRO COVER XTS34-40 WHT	White RAL9010	-	90	25	4

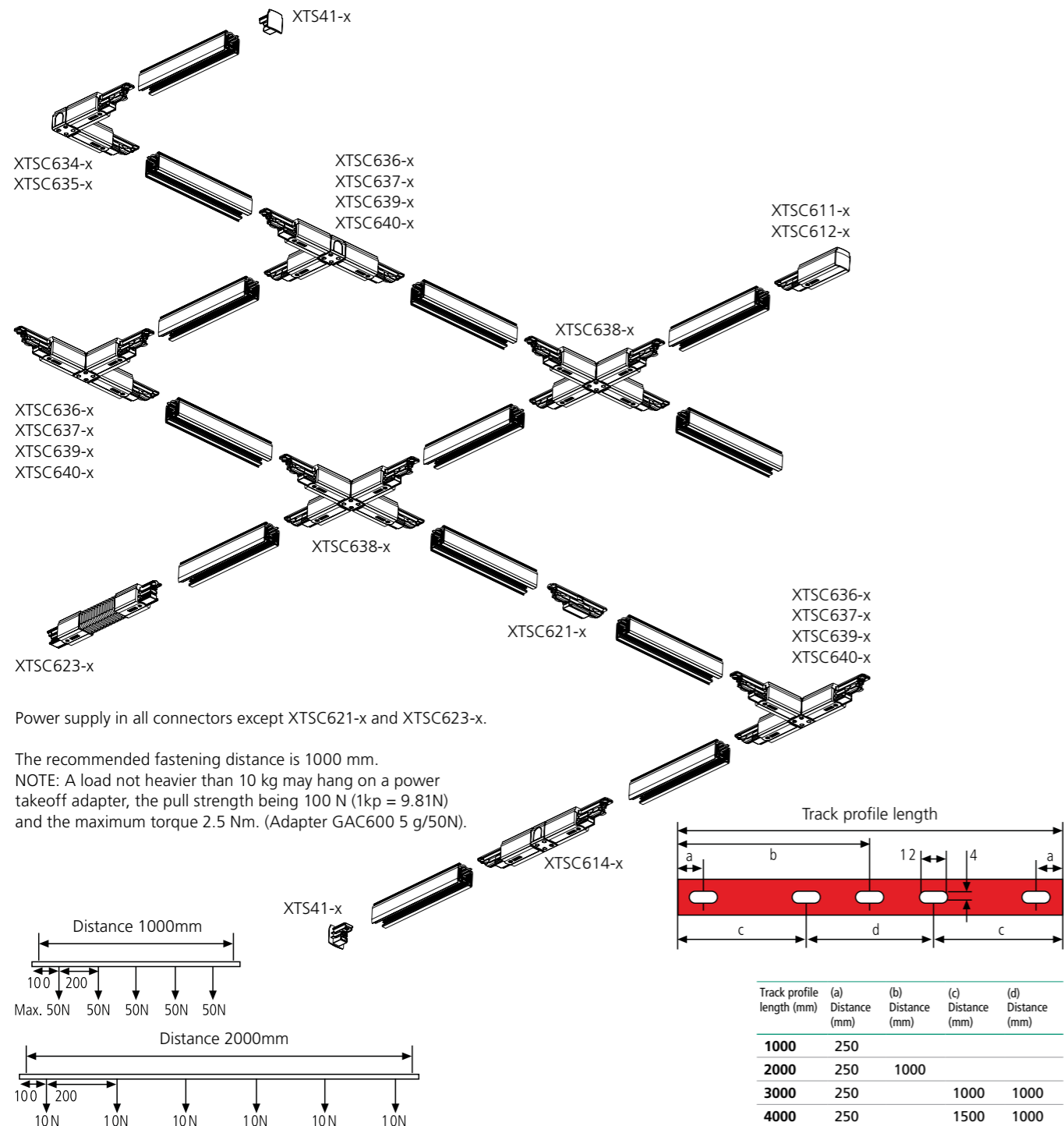




# Global Trac PULSE

## Features

- GLOBAL Trac Pulse delivers dynamic lighting and is used to focus attention in store settings and shop windows
- DALI circuit-specific control option suits museums and exhibitions to highlight details and in restaurants, auditoriums, hotel lobbies and many other places.
- The modular structure of the system makes it easy to extend and adapt to various needs.
- Track profiles could be cut at needed length and the conductors folded for the insertion of the joints with the accessory tool
- Global Trac Pulse 3-Circuit track for dimmable DALI applications compatible with Global DALI adapters
- L1/L2/L3/neutral/ground 16 A/400 V + control 3 x 1 A/50 V FELV AC DALI (FELV) compatible
- Degree of protection IP20
- All materials used are halogen free and V0-self-extinguishing.
- Recessed, surface mounted and suspended track offering with accessories
- Available in black (RAL9005) and white (RAL9010)



Power supply in all connectors except XTSC621-x and XTSC623-x.

The recommended fastening distance is 1000 mm.  
 NOTE: A load not heavier than 10 kg may hang on a power takeoff adapter, the pull strength being 100 N (1kp = 9.81N) and the maximum torque 2.5 Nm. (Adapter GAC600 5 g/50N).

# Global Trac PULSE

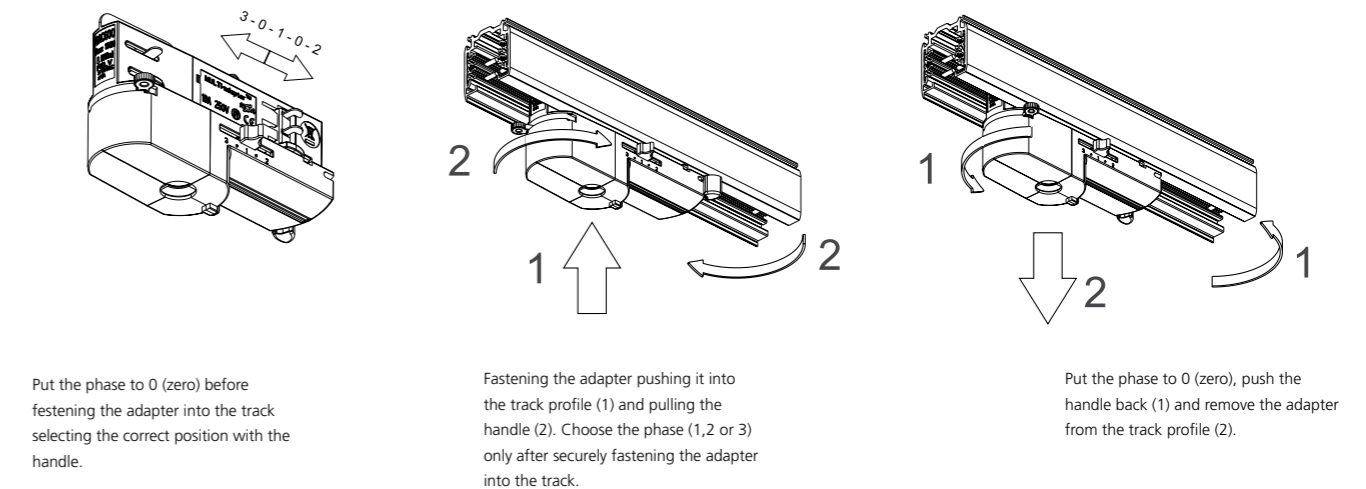
## Track Profiles



Code	Description	Colour	Polarity ridge	Nominal Length (mm)	Nominal Width (mm)	Nominal Height (mm)
<b>Global Trac PULSE - Track profiles</b>						
XTSC6100-2	GLB TRC PULSE 1M BLK	Black RAL9005	Universal	1000	31.5	32.5
XTSC6100-3	GLB TRC PULSE 1M WHT	White RAL9010	Universal	1000	31.5	32.5
XTSC6200-2	GLB TRC PULSE 2M BLK	Black RAL9005	Universal	2000	31.5	32.5
XTSC6200-3	GLB TRC PULSE 2M WHT	White RAL9010	Universal	2000	31.5	32.5
XTSC6300-2	GLB TRC PULSE 3M BLK	Black RAL9005	Universal	3000	31.5	32.5
XTSC6300-3	GLB TRC PULSE 3M WHT	White RAL9010	Universal	3000	31.5	32.5
XTSC6400-2	GLB TRC PULSE 4M BLK	Black RAL9005	Universal	4000	31.5	32.5
XTSC6400-3	GLB TRC PULSE 4M WHT	White RAL9010	Universal	4000	31.5	32.5
<b>Global Trac PULSE - Recessed track profiles</b>						
XTSCF6100-2	GLB TRC PULSE REC 1M BLK	Black RAL9005	Universal	1000	56	32.5
XTSCF6100-3	GLB TRC PULSE REC 1M WHT	White RAL9010	Universal	1000	56	32.5
XTSCF6200-2	GLB TRC PULSE REC 2M BLK	Black RAL9005	Universal	2000	56	32.5
XTSCF6200-3	GLB TRC PULSE REC 2M WHT	White RAL9010	Universal	2000	56	32.5
XTSCF6300-2	GLB TRC PULSE REC 3M BLK	Black RAL9005	Universal	3000	56	32.5
XTSCF6300-3	GLB TRC PULSE REC 3M WHT	White RAL9010	Universal	3000	56	32.5

Legend: GLB = Global; TRC = Track profile; REC = Recessed installation; BLK = Black; WHT = White;

## Adapter installation



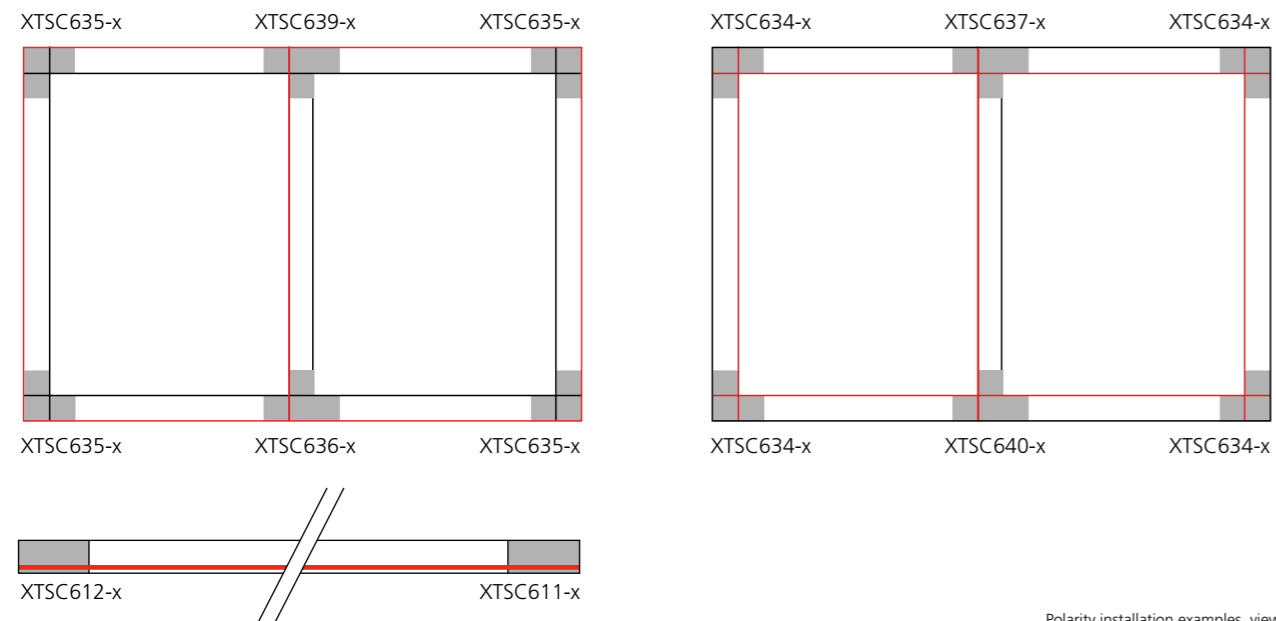
# Global Trac PULSE

## Feeds and connectors

Code	Description	Colour	Polarity ridge	Nominal Length (mm)	Nominal Width (mm)	Nominal Height (mm)
<b>Global Trac PULSE - End feeds</b>						
XTSC611-2	GLB TRC PULSE END FEED-L BLK	Black RAL9005	Left	105	32	33
XTSC611-3	GLB TRC PULSE END FEED-L WHT	White RAL9010	Left	105	32	33
XTSC612-2	GLB TRC PULSE END FEED-R BLK	Black RAL9005	Right	105	32	33
XTSC612-3	GLB TRC PULSE END FEED-R WHT	White RAL9010	Right	105	32	33
<b>Global Trac PULSE - Mid feeds</b>						
XTSC614-2	GLB TRC PULSE MID FEED BLK	Black RAL9005	Universal	170	32	33
XTSC614-3	GLB TRC PULSE MID FEED WHT	White RAL9010	Universal	170	32	33
<b>Global Trac PULSE - Connectors</b>						
XTSC621-2	GLB TRC PULSE STRAIGHT CONNECTOR BLK	Black RAL9005	Universal	70	20	26
XTSC621-3	GLB TRC PULSE STRAIGHT CONNECTOR WHT	White RAL9010	Universal	70	20	26
XTSC623-2	GLB TRC PULSE FLEX CORNER CONNECTOR BLK	Black RAL9005	Universal	248	32	33
XTSC623-3	GLB TRC PULSE FLEX CORNER CONNECTOR WHT	White RAL9010	Universal	248	32	33
<b>Global Trac PULSE - L feeds</b>						
XTSC634-2	GLB TRC PULSE L FEED IN BLK	Black RAL9005	Inside	99	99	33
XTSC634-3	GLB TRC PULSE L FEED IN WHT	White RAL9010	Inside	99	99	33
XTSC635-2	GLB TRC PULSE L FEED OUT BLK	Black RAL9005	Outside	99	99	33
XTSC635-3	GLB TRC PULSE L FEED OUT WHT	White RAL9010	Outside	99	99	33
<b>Global Trac PULSE - T feeds</b>						
XTSC636-2	GLB TRC PULSE T OUT-RIGHT BLK	Black RAL9005	Outside/Right	166	99	33
XTSC636-3	GLB TRC PULSE T OUT-RIGHT WHT	White RAL9010	Outside/Right	166	99	33
XTSC637-2	GLB TRC PULSE T IN-LEFT BLK	Black RAL9005	Inside/Left	166	99	33
XTSC637-3	GLB TRC PULSE T IN-LEFT WHT	White RAL9010	Inside/Left	166	99	33
XTSC639-2	GLB TRC PULSE T OUT-LEFT BLK	Black RAL9005	Outside/Left	166	99	33
XTSC639-3	GLB TRC PULSE T OUT-LEFT WHT	White RAL9010	Outside/Left	166	99	33
XTSC640-2	GLB TRC PULSE T IN-RIGHT BLK	Black RAL9005	Inside/ Right	166	99	33
XTSC640-3	GLB TRC PULSE T IN-RIGHT WHT	White RAL9010	Inside/Right	166	99	33
<b>Global Trac PULSE - X feeds</b>						
XTSC638-2	GLB TRC PULSE X FEED BLK	Black RAL9005	Universal	166	166	33
XTSC638-3	GLB TRC PULSE X FEED WHT	White RAL9010	Universal	166	166	33

Legend: GLB = Global; ADJ = Adjustable; L = 90° joint; T = three-way joint; X = Four-way joint; BLK = Black; WHT = White;

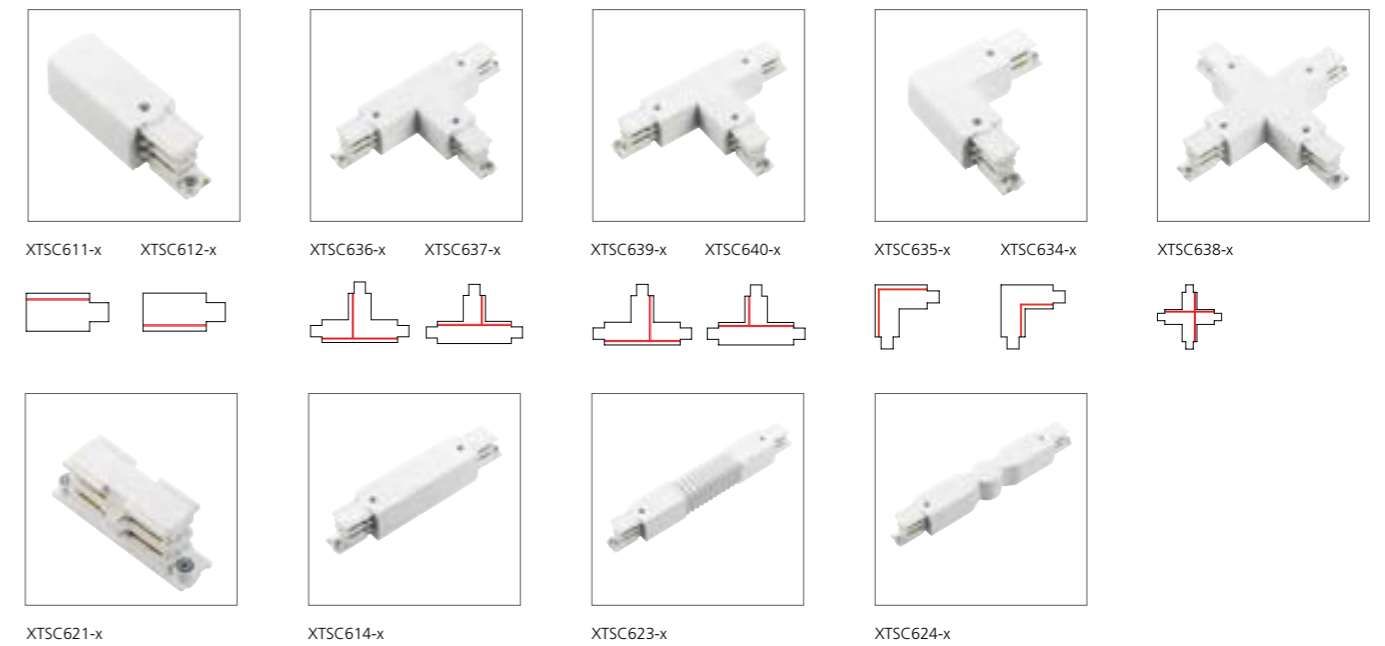
## Polarity



Polarity installation examples, view from above.

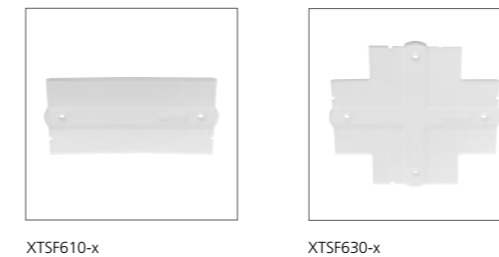
# Global Trac PULSE

## Feeds and connectors



## Accessories

Code	Description	Colour	Polarity ridge	Nominal Length (mm)	Nominal Width (mm)	Nominal Height (mm)
<b>Global Trac PULSE - Feed cover</b>						
XTSF610-2	GLB TRC PULSE XTSC611-614 COVER PLATE BL	Black RAL9005	-	15	25	4
XTSF610-3	GLB TRC PULSE XTSC611-614 COVER PLATE WH	White RAL9010	-	15	25	4
XTSF630-2	GLB TRC PULSE XTSC634-640 COVER PLATE BL	Black RAL9005	-	90	25	4
XTSF630-3	GLB TRC PULSE XTSC634-640 COVER PLATE WH	White RAL9010	-	90	25	4



XTSP610-x

XTSP630-x

# Global Trac ACCESSORIES

## Mounting accessories

Code	Description	Colour	Suspension accessories compatibility	Nominal Length (mm)	Nominal Width (mm)	Nominal Height (mm)
<b>Global Trac - clamps</b>						
SKB11R-2	GLB TRCSNAPON CLAMPFOR M6 ROD BLK	Black RAL9005	SPW65-1			
SKB11R-3	GLB TRCSNAPON CLAMPFOR M6 ROD WHT	White RAL9010	SPW65-1			
SKB11T-2	GLB TRCSNAPON CLAMPFOR T BAR BLK	Black RAL9005	-			
SKB11T-3	GLB TRCSNAPON CLAMPFOR T BAR WHT	White RAL9010	-			
SKB11WL-2	GLB TRCSNAPON CLAMPFOR 1.5MM WIRE BLK	Black RAL9005	SPW65-1			
SKB11WL-3	GLB TRCSNAPON CLAMPFOR 1.5MM WIRE WHT	White RAL9010	SPW65-1			
SKB12-2	GLB TRC CEIL CLAMP BLK	Black RAL9005	SPW65-1	30	30	12
SKB12-3	GLB TRC CEIL CLAMP WHT	White RAL9010	SPW65-1	30	30	12
SKB12H-2	GLB TRC CEIL CLAMP 29MM FMAX 200N BLK	Black RAL9005	SPW65-1	30	30	32
SKB12H-3	GLB TRC CEIL CLAMP 29MM FMAX 200N WHT	White RAL9010	SPW65-1	30	30	32
SKB16-2	GLB TRC SUS CLAMP BLK	Black RAL9005	SPW65-1 / 2057484	25	30	39
SKB16-3	GLB TRC SUS CLAMP WHT	White RAL9010	SPW65-1 / 2057484	25	30	39
SKB18-2	GLB TRC SUPPORT BLK	Black RAL9005	SPW65-1 / 2057484	185	30	20
SKB18-3	GLB TRC SUPPORT WHT	White RAL9010	SPW65-1 / 2057484	185	30	20
<b>Global Trac- Suspension wire kit</b>						
SPW65-1	GLB TRC SUSPENSION WIRE 1.5M FMAX 150N	Steel		1500	32	33
2057484	SUSPENSION KIT 10M	Steel		10000		



SKB11R-x SKB11T-x SKB11WL-x SKB12-x SKB12H-x SKB16-x



SKB18-x SPW65-1 2057484



# Global Trac ACCESSORIES

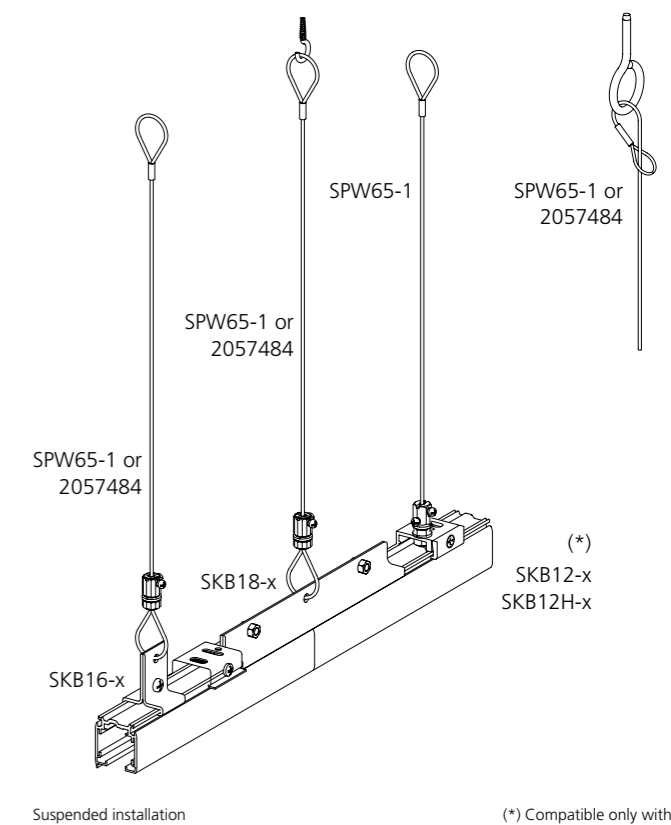
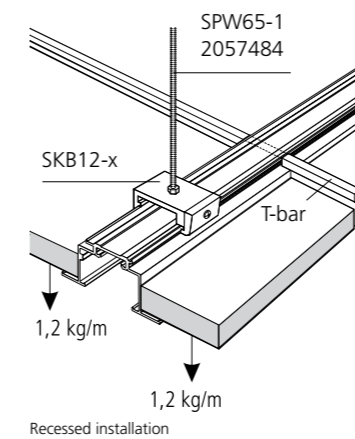
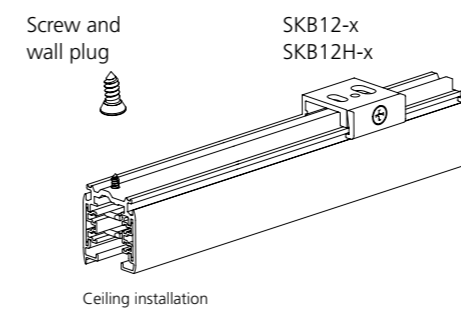
## Other accessories

Code	Description	Colour	Polarity ridge	Nominal Length (mm)	Nominal Width (mm)	Nominal Height (mm)
<b>Global Trac - End cap</b>						
XTS41-2	GLB TRC PRO END CAP BLK	Black RAL9005		31	32	33
XTS41-3	GLB TRC PRO END CAP WHT	White RAL9010		31	32	33
<b>Global Trac - Feeds cover plate</b>						
XTSF40-2	GLB TRC FEED OUTLET/COVER PLATE BLK	Black RAL9005	-	110	110	12
XTSF40-3	GLB TRC FEED OUTLET/COVER PLATE WHT	White RAL9010	-	110	110	12
<b>Global Trac - Cover strip</b>						
XTSP11-2	GLB TRC COVER STRIP 3M BLK	Black RAL9005	-	3000		
XTSP11-3	GLB TRC COVER STRIP 3M WHT	White RAL9010	-	3000		
<b>Global Trac - Additional hook</b>						
XTAK11-1	GLB TRC STEEL HARDWARE HOOK 2MM	Steel	-			
XTAK142-2	GLB TRC HOOK BASE FOR 2MM WIRE BLK	Black RAL9005	-			
XTAK142-3	GLB TRC HOOK BASE FOR 2 MM WIRE WHT	White RAL9010	-			
<b>Global Trac - Wire ben tool</b>						
XTSV12	GLB TRC WIRE BEND TOOL	Blue	-	135	15	23



XTS41-x XTSF40-x XTSP11-x XTAK11-1 XTAK142-x XTSV12

## Assembling schemes



(\*) Compatible only with suspension kit SPW65-1.

**SYLVANIA**



## Lighting your way to safety

**START** eco Emergency

START eco Emergency is a range of luminaires designed for emergency applications. The range include both maintained and non-maintained luminaires providing manual test function and a 3 hour duration. All compliant to EN 60598-2-22.



# START eco Emergency Exit



## Features

- A range of luminaires for emergency lighting
- Double sided emergency exit signage (can be used as one sided if preferred)
- Products include 7 ISO7010 Legends supplied. Left, Right, 2 x Up, 2 x Down and Blank
- Surface mounted or surface mounted suspended options available
- Surface mounted version can be used for wall or ceiling mounting with a 90 degree rotation
- Manual test version (including a test button)
- Maintained operation
- 3 hour emergency as standard
- Viewing Distance up to 30m
- Battery: 900mAh 3.6V Ni-Cd
- Efficient thermal design: ta 0 to +35°C
- Complies to EN60598-2-22
- Lifetime: 30,000 hours

## Product information

Code	Description	Colour Temperature (K)	Mounting	System Power Consumption (W)	Lumen Output (lm)	Efficacy (lm/W)	Duration	Mode Of Operation	Testing
<b>START eco Emergency Exit</b>									
<b>0032000</b>	START eco Emergency Exit Surface Manual Test Maintained 3h	6500	Surface	2	24	12	3 hour	Maintained	Manual
<b>0032001</b>	START eco Emergency Exit Surface Suspended Manual Test Maintained 3h	6500	Surface Suspended	2	24	12	3 hour	Maintained	Manual

## Additional Images



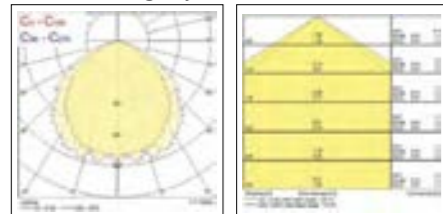
Start eco Emergency Exit Surface



Start eco Emergency Exit Surface Suspended

## Photometric Data

START eco Emergency Exit Surface Manual AC



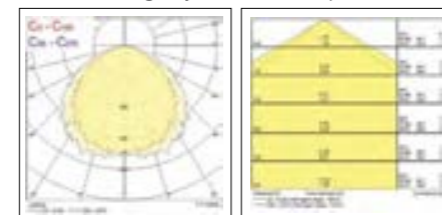
START eco Emergency Exit Surface Manual DC



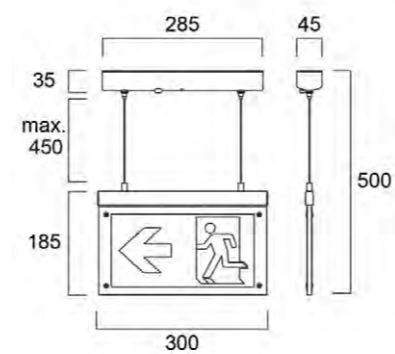
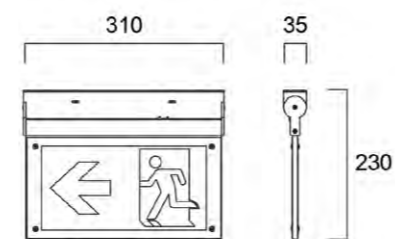
START eco Emergency Exit Surface Suspended AC



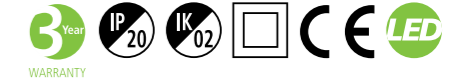
START eco Emergency Exit Surface Suspended DC



## Dimensions (mm)



# START eco Emergency Spot



## Features

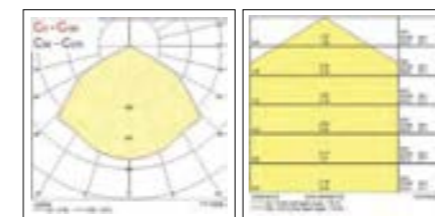
- A range of luminaires for Emergency Lighting applications
- Efficient LED technology
- Recessed luminaires open area and corridor applications
- Manual Test
- Maintained 3 hour Emergency
- Lifetime 30,000hours L70 B50
- Complied to EN 60598-2-22
- RAL9003 Signal White bezel
- Ni-Cd Battery
- Polycarbonate Housing
- 35mm cut out

## Product information

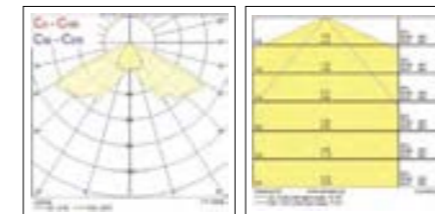
Code	Description	Colour Temperature (K)	Mounting	System Power Consumption (W)	Lumen Output (lm)	Efficacy (lm/W)	Duration	Mode Of Operation	Testing
<b>START eco Emergency Spot</b>									
<b>0032002</b>	START eco Emergency Spot Manual Test Non Maintained 3h Open Area	6500	Recessed	1.3	170	131	3 hour	Non Maintained	Manual
<b>0032003</b>	START eco Emergency Spot Manual Test Non Maintained 3h Corridor	6500	Recessed	1.3	170	131	3 hour	Non Maintained	Manual

## Photometric Data

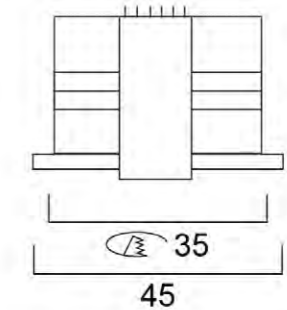
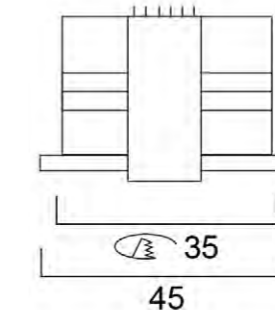
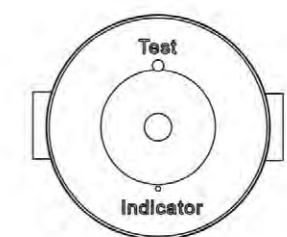
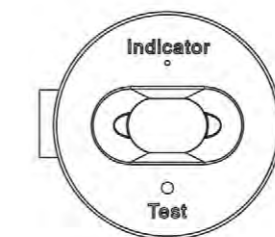
START eco Emergency Spot Open Area



START eco Emergency Spot Corridor



## Dimensions (mm)

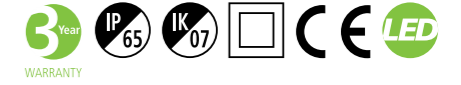


START eco Emergency Open area

START eco Emergency Corridor



# START eco Emergency Bulkhead IP65



## Features

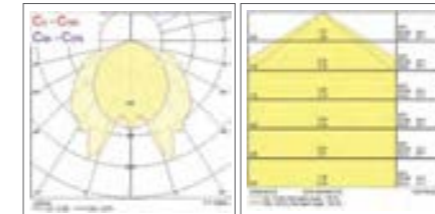
- A range of luminaires for emergency lighting
- Suitable for interior or exterior use
- Emergency lighting Bulkhead with IP65 rating (IP rated cable gland included)
- Manual test version
- Maintained or Non-maintained operation possible (depending on wiring)
- 3 hour emergency as standard
- Battery: 1800mAh 3.6V
- Efficient thermal design: ta 0 to +35°C
- Complies to EN60598-2-22
- Energy class: A++, A+, A
- Lifetime: 30,000 hours

## Product information

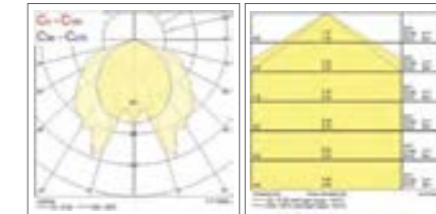
Code	Description	Colour Temperature (K)	Mounting	System Power Consumption (W)	Lumen Output (lm)	Efficacy (lm/W)	Duration	Mode Of Operation	Testing
<b>START eco Emergency</b>									
Exit									
0032004	START eco Emergency Bulkhead Manual Test Maintained/Non Maintained 3h 170lm	6500	Surface	3.5	170	49	3 hour	Maintained/Non Maintained	Manual

## Photometric Data

START eco Emergency Bulkhead



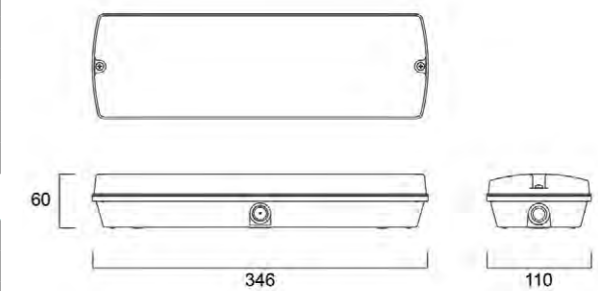
START eco Emergency Bulkhead EM



CH	Open - Area (0.5 LX)			
	Luminaire to luminaire		Wall to luminaire	
	Axial to Axial	Trans to Trans	Axial to Wall	Trans to wall
2m	7.6	9.2	2.8	3.8
2.5m	8.5	10.3	3	4.1
3m	9.2	11.3	3.2	4.25
3.5m	9.9	11.9	3.35	4.45
4m	10.5	12.6	3.5	4.6

CH	Escape Route (1 LX)			
	Luminaire to luminaire		Wall to luminaire	
	Axial to Axial	Trans to Trans	Axial to Wall	Trans to wall
2m	-	8	-	3.85
2.5m	-	8.6	-	4
3m	-	9.15	-	4.12
3.5m	-	9.55	-	4.3
4m	-	9.7	-	4.2

## Dimensions (mm)



Please note spacing tables supplied with this product act as a guide and reference only. A full lighting design scheme should be generated using photometric data and calculated in order to create the final lighting requirements to meet the current regulations and compliance. Sylvania Lighting accepts no responsibility for any lighting scheme that is not compliant based on the use of spacing tables.

## Additional Images



**SYLVANIA**



## Seamless linkable linear LED light

LED Pipe



The new generation of Sylvania's LED Pipe range of luminaires have been designed for simple linear light applications, creating direct or indirect illumination within a room. The design of the luminaire allows seamless linking and you can connect in up to a 10 meter continuous run.

Each LED Pipe comes with fixings including optional tilting mounting brackets. A range of accessories are available separately; connector cables for linking around corners and 1.5m plugged cable.

# LED Pipe



## Features

- LED batten (T5 batten equivalent) 1000lm/m / 1500lm/m ideal for cove lighting and secondary illumination
- Available in 300 / 600 / 900 / 1,200 / 1,500mm length models
- Uniform light distribution
- Highly efficient: delivers up to 125lm/W (total system efficiency)
- Warm white (3,000K) or neutral white (4,000K)
- Integrated driver, direct input 220-240V
- High-quality robust Polycarbonate extrusion tube
- Seamless linking - up to 10m runs
- Easy installation by mounting brackets (2 non-tiltable + 2 tiltable included)
- Low maintenance with 30,000 hours life expectancy

## Product information

Code	Description	Total power consumption (W)	Fixture Lumen (lm)	Efficacy (lm/W)	Colour Temperature (K)	Drive Current (mA)	Beam Angle (°)	CRI	Length (mm)
<b>LED Pipe</b>									
0051361	LED PIPE L300 WW	3.5	350	100	3000	50	120	80	300
0051362	LED PIPE L600 WW	6.5	650	100	3000	50	120	80	600
0051363	LED PIPE L900 WW	9	900	100	3000	100	120	80	900
0051364	LED PIPE L1200 WW	11.5	1150	100	3000	100	120	80	1200
0051365	LED PIPE L1500 WW	14.5	1450	100	3000	150	120	80	1200
0051366	LED PIPE L300 NW	3.5	385	110	4000	50	120	80	300
0051367	LED PIPE L600 NW	6.5	720	111	4000	50	120	80	600
0051368	LED PIPE L900 NW	9	990	110	4000	100	120	80	900
0051369	LED PIPE L1200 NW	11.5	1275	111	4000	100	120	80	1200
0051370	LED PIPE L1500 NW	14.5	1600	110	4000	150	120	80	1500
0051371	LED PIPE L300 HIGH OUTPUT WW	4.5	520	116	3000	50	120	80	300
0051372	LED PIPE L600 HIGH OUTPUT WW	8	920	115	3000	100	120	80	600
0051373	LED PIPE L900 HIGH OUTPUT WW	11.5	1325	115	3000	100	120	80	900
0051374	LED PIPE L1200 HIGH OUTPUT WW	15	1725	115	3000	150	120	80	1200
0051375	LED PIPE L1500 HIGH OUTPUT WW	19	2175	114	3000	150	120	80	1500
0051376	LED PIPE L300 HIGH OUTPUT NW	4.5	560	124	4000	50	120	80	300
0051377	LED PIPE L600 HIGH OUTPUT NW	8	1000	125	4000	100	120	80	600
0051378	LED PIPE L900 HIGH OUTPUT NW	11.5	1450	126	4000	100	120	80	900
0051379	LED PIPE L1200 HIGH OUTPUT NW	15	1875	125	4000	150	120	80	1200
0051380	LED PIPE L1500 HIGH OUTPUT NW	19	2375	125	4000	150	120	80	1500

## Additional images



## Photometric Data



# LED Pipe



Code	Description	Housing Colour
<b>Accessories</b>		
0051387	LED Pipe Connecting Cable 3 Pack	White
0051388	LED Pipe UK Cable Accessory	White
0051390	LED Pipe Tilttable bracket	White
0051391	LED Pipe Non-Tilttable bracket	White



0051387



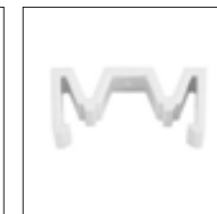
0051388



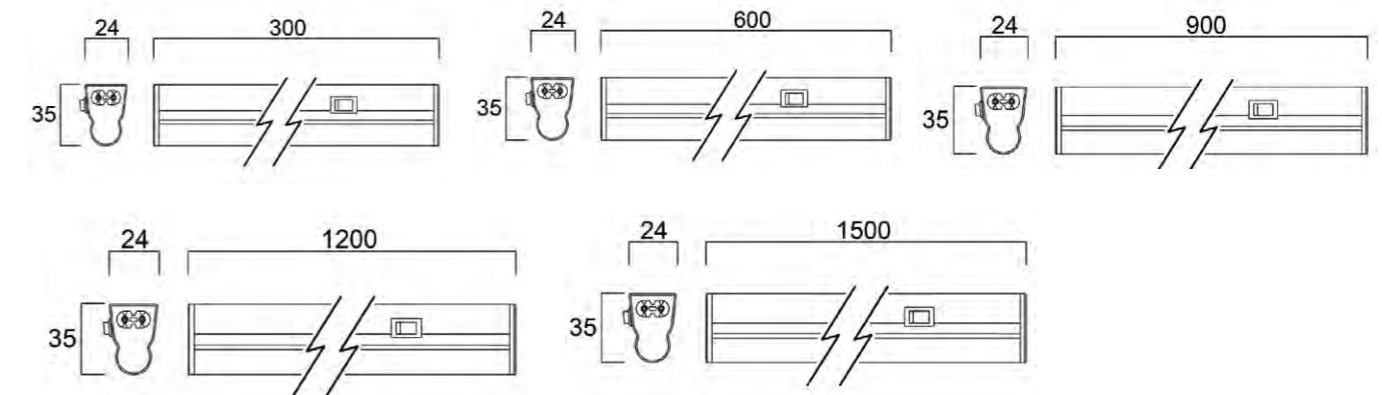
0051390



0051391



## Dimensions (mm)





**SYLVANIA**



## Industrial Batten

### WayLine

The new WayLine is a range of LED battens in three different lengths: 600mm, 1200mm and 1500mm. The range is perfect for lighting large industrial areas such as corridors, warehouses, back of house areas or general purpose spaces. It is available in either 3000K warm white or 4000K neutral white. 4000K version delivers up to 8400lm (luminaire lumen output), and up to 144lm/W (total system efficacy). The range offers ease of installation through the 2-part housing push-in design.

There are various options of non-dimmable, DALI dimmable, 3 hour maintained emergency, integrated microwave sensor (presence detection) and integrated microwave sensor with corridor function. Symmetric and asymmetric reflectors are available for each length.



## Features

- Range of LED battens in three different lengths: 600mm, 1200mm and 1500mm
- Perfect choice for lighting large industrial areas such as corridors, warehouses, back of house areas or general purpose spaces
- Available in neutral white (4000K) and warm white (3000K), CRI>80, SDCM<3
- High performance: delivers up to 8400lm (luminaire lumen output on 4000K Standard, Microwave and Emergency version), and up to 144lm/W (total system efficacy)
- Ease of installation through 2-part housing push-in design
- Ability to through wire
- End cap incorporates 20mm conduit knock out, if required
- Suitable for direct fix and suspension
- BESA box connection possibility standard on product
- Safety cable included
- Emergency version with 3 hour maintained emergency batteries
- Symmetric, asymmetric reflectors, coupling piece and suspension kit as accessory
- Microwave sensor for 360° detection up to 8m range at 6m mounting height
- Corridor version with microwave presence sensor
- DALI versions
- Lifespan : 90.000 hrs (L80:B20)
- 5 years warranty
- IK08 impact protection

## Product information

Code	Description	Fixture Colour	System Power Consumption (W)	Fixture lumen (lm)	Efficacy (lm/W)	Colour Temp (K)	Control Technology Type	Voltage (V)	Drive current (mA)	Beam Angle (°)	Lifespan (L80:B20)
<b>WayLine</b>											
<b>Standard</b>											
0048910	Wayline 600 1200lm 840	RAL 9016 - Traffic white	9	1200	133	4000	Switched	220-240	240	115	90,000
0048911	Wayline 600 2900lm 840	RAL 9016 - Traffic white	21	2900	138	4000	Switched	220-240	550	115	90,000
0048912	Wayline 1200 3200lm 840	RAL 9016 - Traffic white	23	3200	139	4000	Switched	220-240	550	115	90,000
0048913	Wayline 1200 5700lm 840	RAL 9016 - Traffic white	40	5700	143	4000	Switched	220-240	900	115	90,000
0048914	Wayline 1500 5200lm 840	RAL 9016 - Traffic white	36	5200	144	4000	Switched	220-240	900	115	90,000
0048915	Wayline 1500 8400lm 840	RAL 9016 - Traffic white	60	8400	140	4000	Switched	220-240	1400	115	90,000
0048916	Wayline 600 1100lm 830	RAL 9016 - Traffic white	9	1100	122	3000	Switched	220-240	240	115	90,000
0048917	Wayline 600 2600lm 830	RAL 9016 - Traffic white	21	2600	124	3000	Switched	220-240	550	115	90,000
0048918	Wayline 1200 2900lm 830	RAL 9016 - Traffic white	23	2900	126	3000	Switched	220-240	550	115	90,000
0048919	Wayline 1200 5100lm 830	RAL 9016 - Traffic white	40	5100	128	3000	Switched	220-240	900	115	90,000
0048920	Wayline 1500 4900lm 830	RAL 9016 - Traffic white	36	4900	136	3000	Switched	220-240	900	115	90,000
<b>DALI</b>											
0048924	Wayline 1200 DALI 3100lm 840	RAL9016 - Traffic white	23	3100	135	4000	DALI	220-240	550	115	90,000
0048925	Wayline 1200 DALI 5500lm 840	RAL9016 - Traffic white	40	5500	138	4000	DALI	220-240	900	115	90,000
0048926	Wayline 1500 DALI 5200lm 840	RAL9016 - Traffic white	37	5200	141	4000	DALI	220-240	900	115	90,000
0048927	Wayline 1500 DALI 8300lm 840	RAL9016 - Traffic white	60	8300	138	4000	DALI	220-240	1400	115	90,000
<b>Microwave</b>											
0048949	Wayline 600 MW 1200lm 840	RAL9016 - Traffic white	10	1200	120	4000	Occupancy sensor	220-240	240	115	90,000
0048932	Wayline 1200 MW 3200lm 840	RAL9016 - Traffic white	24	3200	133	4000	Occupancy sensor	220-240	550	115	90,000
0048933	Wayline 1200 MW 5700lm 840	RAL9016 - Traffic white	41	5700	139	4000	Occupancy sensor	220-240	900	115	90,000
0048934	Wayline 1500 MW 5200lm 840	RAL9016 - Traffic white	37	5200	141	4000	Occupancy sensor	220-240	900	115	90,000
0048935	Wayline 1500 MW 8400lm 840	RAL9016 - Traffic white	61	8400	138	4000	Occupancy sensor	220-240	1400	115	90,000
<b>Microwave Corridor</b>											
0048951	Wayline 600 MWCOR 1200lm 840	RAL9016 - Traffic white	10	1200	120	4000	Occupancy sensor	220-240	240	115	90,000
0048940	Wayline 1200 MWCOR 3100lm 840	RAL9016 - Traffic white	24	3100	129	4000	Occupancy sensor	220-240	550	115	90,000
0048953	Wayline 1200 MWCOR 5500lm 840	RAL9016 - Traffic white	41	5500	134	4000	Occupancy sensor	220-240	900	115	90,000
0048954	Wayline 1500 MWCOR 5200lm 840	RAL9016 - Traffic white	38	5200	137	4000	Occupancy sensor	220-240	900	115	90,000
<b>Emergency</b>											
0048928	Wayline 1200 3200lm 840 EM	RAL9016 - Traffic white	26	3200	123	4000	Switched	220-240	550	115	90,000
0048929	Wayline 1200 5700lm 840 EM	RAL9016 - Traffic white	44	5700	130	4000	Switched	220-240	900	115	90,000
0048930	Wayline 1500 5200lm 840 EM	RAL9016 - Traffic white	41	5200	127	4000	Switched	220-240	900	115	90,000
0048931	Wayline 1500 8400lm 840 EM	RAL9016 - Traffic white	64	8400	131	4000	Switched	220-240	1400	115	90,000

Code	Description
<b>Accessories</b>	
0048941	Wayline Suspension set
0048942	Wayline Coupling accessory
0048943	Wayline Symmetric reflector 600
0048944	Wayline Asymmetric reflector 600
0048945	Wayline Symmetric reflector 1200
0048946	Wayline Asymmetric reflector 1200
0048947	Wayline Symmetric reflector 1500
0048948	Wayline Asymmetric reflector 1500

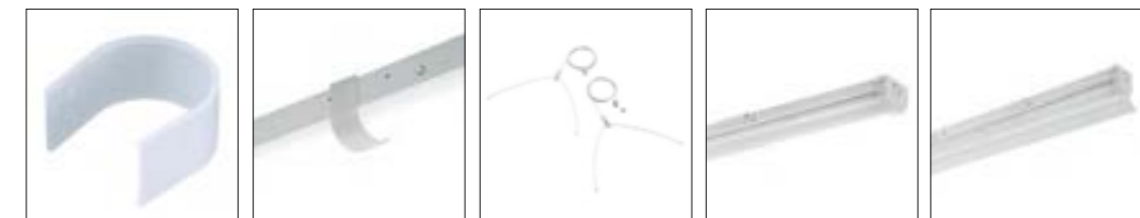
## Additional Images



Wayline Standard



Wayline Emergency



Coupling accessory

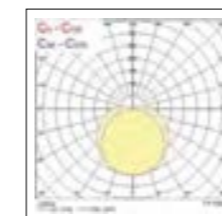
Wayline with Coupling accessory

Suspension set

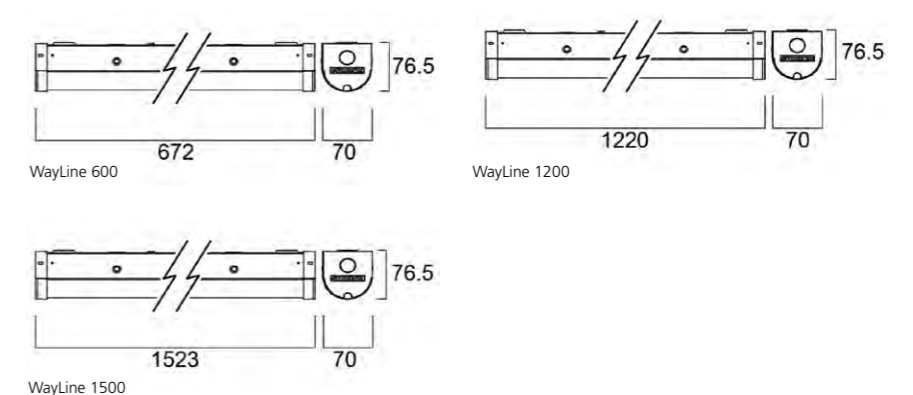
Wayline with Asymmetric Reflector

Wayline with Symmetric Reflector

## Photometric Data



## Dimensions (mm)



**SYLVANIA**



## High performing and versatile

### LED IP20 Batten



The integrated LED IP20 Batten is a range of high performance luminaires designed to replace traditional T8 batten fixtures. Perfect for kitchens, living rooms, corridors and garages.

The integrated LED IP20 Batten is a range of high performance luminaires designed to replace traditional T8 batten fixtures. The single version is available in a range of lengths: 600mm, 1200mm, 1500mm and 1800mm. LED IP20 Batten delivers high performance with up to 3250 lumen output and up to 135lm/W efficiency.

The LED IP20 Batten is slimline and versatile and provides an ideal solution for interior applications such as kitchens, living rooms, corridors, workshops and garages.

A quick installation is guaranteed through the push-in design of the housing and easy wiring connectors, with no screwdriver needed. LED IP20 Batten is available in neutral white (4000K).

The new LED IP20 Batten Twin share similar characteristics as the single version and offer extra flexibility and a higher lumen package up to 5600lm.

# LED IP20 Batten Single



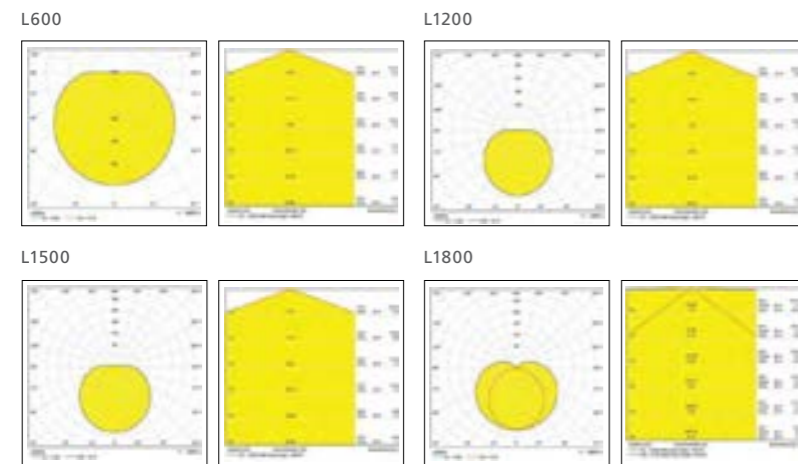
## Features

- 8W, 16W, 18W and 24W LED batten luminaires
- Impressive performance, up to 3250lm
- Highly efficient - with up to 135lm/W
- Available in neutral white (4000K)
- Available in white finish
- Slimline and versatile design
- LED technology provides energy efficient solution and reduced maintenance costs
- 25,000 hours lifetime
- Energy class: A++, A+, A

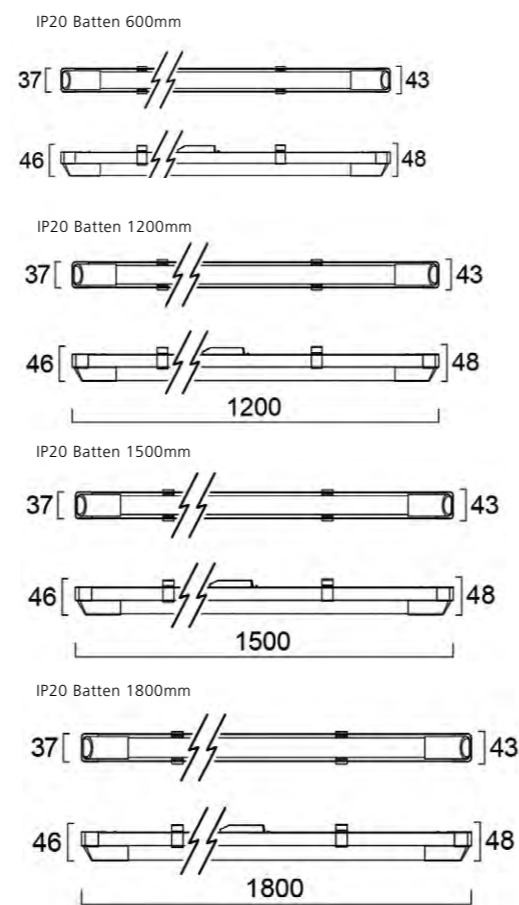
## Product information

Code	Description	Voltage (V)	Watt (W)	Luminous Flux (lm)	Efficiency (lm/W)	Beam Angle (°)	CRI	Colour Temp (K)	IP Rating	IK Rating	Housing Color	Length (mm)	Width (mm)	Height (mm)	Average Life (h)
0045158	LED IP20 Batten L600 Single	220-240	8	920	115	175	80	4000	IP20	IK02	white	600	43	48	25,000
0045159	LED IP20 Batten L1200 Single	220-240	16	1920	120	175	80	4000	IP20	IK02	white	1200	43	48	25,000
0045160	LED IP20 Batten L1500 Single	220-240	18	2400	133	175	80	4000	IP20	IK02	white	1500	43	48	25,000
0045161	LED IP20 Batten L1800 Single	220-240	24	3250	135	175	80	4000	IP20	IK02	white	1800	43	48	25,000

## Photometric Data



## Dimensions (mm)



## Additional Images



# LED IP20 Batten Twin



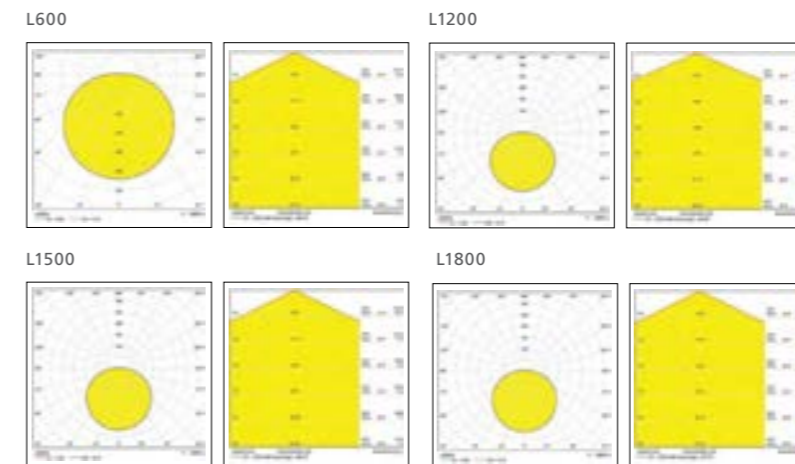
## Features

- 16W, 30W, 36W and 48W LED batten luminaires
- Impressive performance, up to 5600lm
- Highly efficient - with up to 117lm/W
- Available in neutral white (4000K)
- Available in white finish
- Slimline and versatile design
- LED technology provides energy efficient solution and reduced maintenance costs
- 25,000 hours lifetime
- Energy class: A++, A+, A

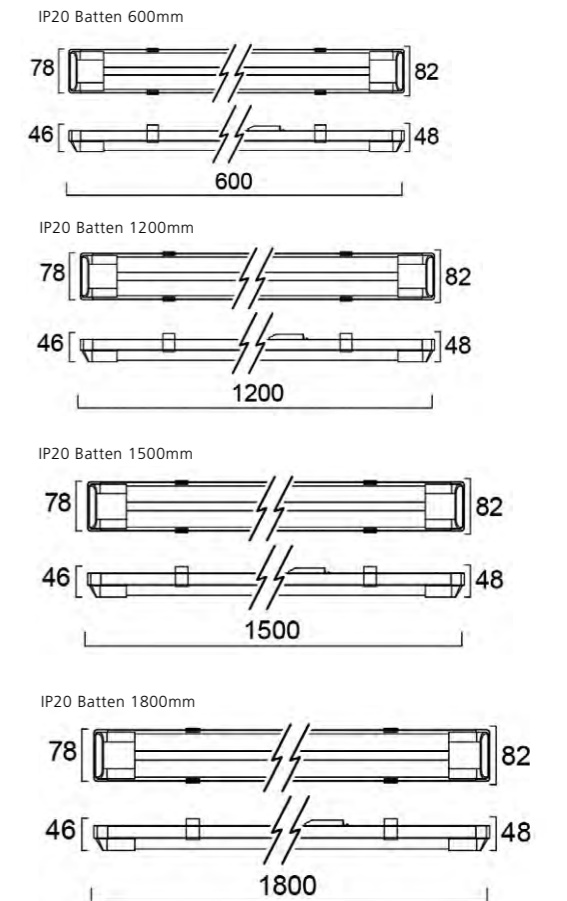
## Product information

Code	Description	Voltage (V)	Watt (W)	Luminous Flux (lm)	Efficiency (lm/W)	Beam Angle (°)	CRI	Colour Temp (K)	IP Rating	IK Rating	Housing Color	Length (mm)	Width (mm)	Height (mm)	Average Life (h)
0045162	LED IP20 Batten L600 Twin	220-240	16	1800	113	175	80	4000K	IP20	IK02	white	600	82	48	25,000
0045163	LED IP20 Batten L1200 Twin	220-240	30	3300	110	175	80	4000K	IP20	IK02	white	1200	82	48	25,000
0045164	LED IP20 Batten L1500 Twin	220-240	36	4100	114	175	80	4000K	IP20	IK02	white	1500	82	48	25,000
0045165	LED IP20 Batten L1800 Twin	220-240	48	5600	117	175	80	4000K	IP20	IK02	white	1800	82	48	25,000

## Photometric Data



## Dimensions (mm)



## Additional Images



**SYLVANIA**



## The next generation in waterproof lighting



### Resisto

Resisto, Sylvania's premium weatherproof range, excels in quality, provides improved installation and functionality, and helps achieve greater energy savings with its SylSmart Standalone and SylSmart Connected enabled versions in parking lots, workshops, storage facilities and underpass areas.

Resisto is an ideal replacement for T5 and T8 luminaires, offering great energy savings. The luminaire benefits from a water and dust resistant polycarbonate body and diffuser offering IP66 protection (IP65 for SylSmart version) and an impact rating of IK08 (SylSmart sensor IK03).





# Resisto

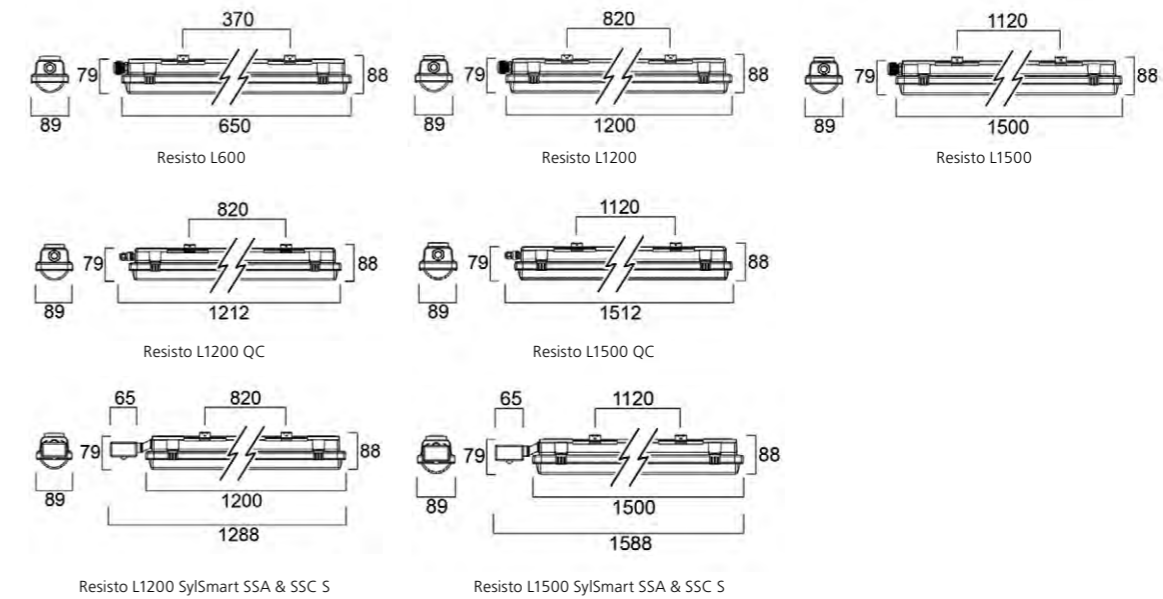


## Product information

Code	Description	Power [W]	Luminous Flux [lm]	Efficacy [lm/W]	Degree of protection [IP]	SDCM	CCT [K]	Control [DIM]	CRI [Ra]	
<b>SylSmart</b>										
<b>SylSmart SSA - Connected</b>										
0010230	Resisto 1200 IP66 2800lm 840 SSA	20	2800	140	IP65	<5	4000	Yes	80	
0010231	Resisto 1200 IP66 5000lm 840 SSA	36	5050	140	IP65	<5	4000	Yes	80	
0010266	Resisto 1500 IP66 4200lm 840 SSA	30	4200	140	IP65	<5	4000	Yes	80	
0010267	Resisto 1500 IP66 7600lm 840 SSA	55	7600	138	IP65	<5	4000	Yes	80	
<b>SylSmart SSC - Standalone</b>										
0010226	Resisto 1200 IP66 2800lm 840 SSC	22	2800	127	IP66	<5	4000	Yes	80	
0010227	Resisto 1200 IP66 5000lm 840 SSC	38	5000	132	IP66	<5	4000	Yes	80	
0010262	Resisto 1500 IP66 4200lm 840 SSC	32	4200	131	IP66	<5	4000	Yes	80	
0010263	Resisto 1500 IP66 7600lm 840 SSC	57	7600	133	IP66	<5	4000	Yes	80	
0010228	Resisto 1200 IP66 2800lm 840 SSC S	24	2800	117	IP65	<5	4000	Yes	80	
0010229	Resisto 1200 IP66 5000lm 840 SSC S	40	5000	125	IP65	<5	4000	Yes	80	
0010264	Resisto 1500 IP66 4200lm 840 SSC S	34	4200	124	IP65	<5	4000	Yes	80	
0010265	Resisto 1500 IP66 7600lm 840 SSC S	59	7600	129	IP65	<5	4000	Yes	80	

\*ENEC for selected items

## Dimensions (mm)



**SYLVANIA**



## Slim but robust

**START** Waterproof Slim

START Waterproof Slim is a range of slimline LED waterproof luminaires that provide an ideal solution for applications such as workshops, garages and outdoor covered spaces. Available in 600mm, 1200mm and 1500mm nominal lengths the product can be a slimline replacement for single and twin 18W/36W/58W fluorescent Waterproof battens.





# START Waterproof Slim



## Features

- LED integrated Waterproof fixture in 600mm,1200mm,1500mm nominal length
- High efficiency throughout the range with up to 136lm/W system efficiency and 100,000 hours lifespan L70B50
- Easy access to electrical terminal through end caps with bayonet lock
- Tool-free electrical connection due to push-in terminal
- Linkable - throughwiring as standard
- Flexible installation as mounting brackets can be positioned freely on the luminaire
- SDCM ≤5
- Ambient Temperature range: -25 to +50°C
- Photobiological risk group: RG0
- Suspension accessory available (SKU 0046035)

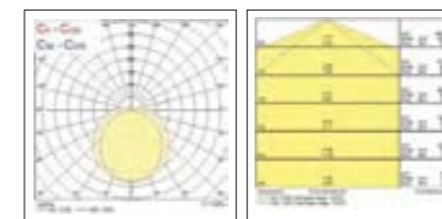
## Product information

Code	Description	Total Power Consumption (W)	Fixture Lumen (lm)	Luminaire Efficacy (lm/W)	Colour Temperature (K)	IP rating	IK Rating	Length (mm)	Width (mm)	Height (mm)
<b>START Waterproof Slim</b>										
0046368	START Waterproof Slim 600 IP65 2500lm 840	19	2500	132	4000	65	08	646	70	69
0046369	START Waterproof Slim 1200 IP65 2500lm 840	19	2500	132	4000	65	08	1207	70	69
0046370	START Waterproof Slim 1200 IP65 4600lm 840	35	4600	131	4000	65	08	1207	70	69
0046371	START Waterproof Slim 1500 IP65 3800lm 840	28	3800	136	4000	65	08	1488	70	69
0046372	START Waterproof Slim 1500 IP65 7200lm 840	53	7200	136	4000	65	08	1488	70	69

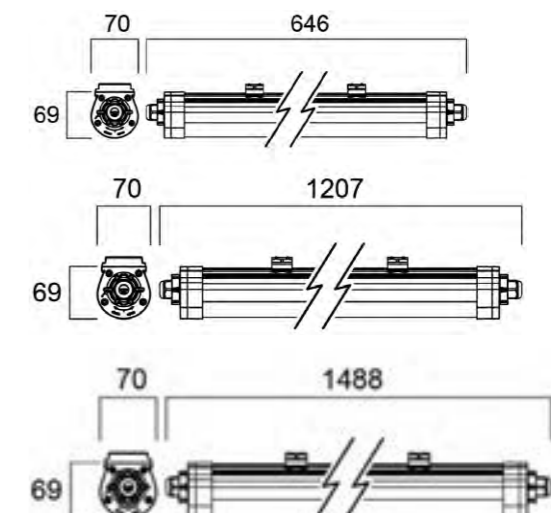
## Additional Images



## Photometric Data



## Dimensions (mm)



**SYLVANIA**



## Stylish and efficient

### **START** Waterproof Tubular

START Waterproof Tubular is a range of weatherproof luminaires offering IP66 protection against moisture and dust. The range provides an ideal solution for indoor applications such as car parks, transit areas, storage / warehouses as well as under canopy for external location.

It is not only stylish but delivers high performance: 1500mm delivers 7400lm, equating to 148lm/W.

START Waterproof Tubular is available in 1200mm and 1500mm with polycarbonate housing in Neutral White (4,000K). Additionally, the range comes ready to install with 304 stainless steel fixing brackets for ceiling mounting and stainless steel end caps.





# START Waterproof Tubular



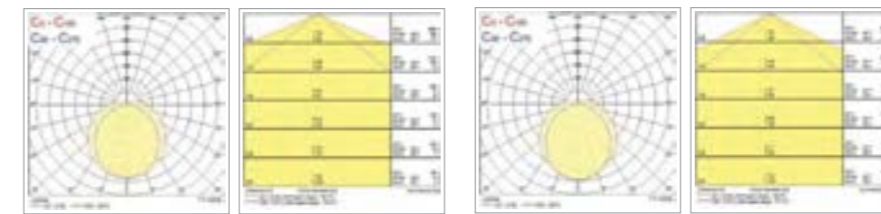
## Features

- Aesthetically attractive integrated LED waterproof fixture in 1200mm and 1500mm nominal length
- High efficiency throughout the range with up to 148lm/W system efficiency
- SDCM  $\leq 4$
- 304 stainless steel fixing brackets for ceiling mounting
- Breather valve allows for use in changing ambient humidity and temperature
- Flexible installation as mounting brackets can be positioned freely on the luminaire
- Lumen maintenance L70:B50 of 54,000 hours lifetime
- Ambient Temperature range: -25 to +50°C
- Photobiological risk group: RG1
- Suspended solution can be feasible with additional accessory (SKU 0046035)

## Product information

Code	Description	Total Power Consumption (W)	Fixture Lumen (lm)	Luminaire efficacy (lm/W)	Colour Temperature (K)	IP rating	IK rating	Length (mm)	Width (mm)	Height (mm)
<b>START Waterproof Tubular</b>										
0047180	START Waterproof Tubular 1200 IP66 5000lm 840 PC	35	5000	143	4000	IP66	IK10	1195	70	70
0047181	START Waterproof Tubular 1500 IP66 7400lm 840 PC	50	7400	148	4000	IP66	IK10	1495	70	70

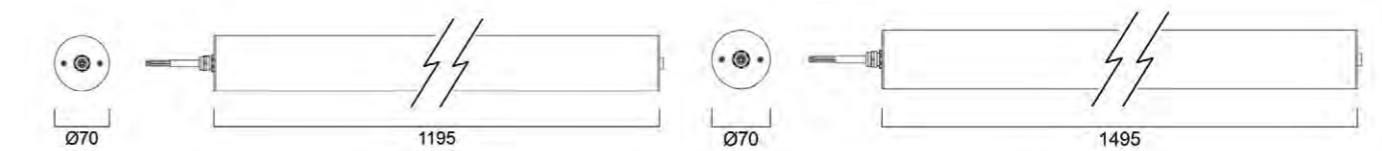
## Photometric Data



START Waterproof Tubular 1200 IP66 5000lm 840 PC

START Waterproof Tubular 1500 IP66 7400lm 840 PC

## Dimension (mm)



## Additional Images



**SYLVANIA**



## High efficacy and resistance

**START** eco Batten IP65



START eco Batten IP65 is a versatile range of slimline LED waterproof luminaires that provide an ideal solution for applications such as workshops, garages and outdoor covered spaces.

The improved START eco Batten IP65 now delivers an impressive efficiency of up to 144 lm/W.

START eco Batten IP65 comes in two dimensions: 1200mm or 1500mm. The range benefits from a robust built (IP65 and IK08 rated) and the design allows for the luminaire to be easily linked through an IP65 rated quick connector. Additionally, the luminaires are easy to install with their stainless steel mounting clips.



## START eco Batten IP65



### Features

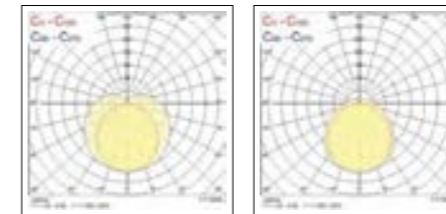
- Slimline versatile LED waterproof batten
- High lumen efficacy up to 144 lm/W
- Impressive performance, up to 6000lm (luminaire lumen output on Twin 1500mm 4000K version)
- Batten LED 1200mm replaces 1x36W LFL or 2x36W LFL
- Batten LED 1500mm replaces 1x58W LFL or 2x58W LFL
- Available in Neutral White (4000K) and Warm White (3000K)\* colour temperature
- MacAdam Ellipse: 5
- Lumen maintenance: 30,000 hours (L80 B50)
- Blue light hazard: RG0
- Operating ambient temperature range: -10°C to +40°C
- Construction Material: Milky white polycarbonate housing with RAL 9003 endcaps
- Linkable (through wiring)

### Product information

Code	Description	Total power consumption (W)	Fixture lumen (lm)	Luminaire efficacy lm/W	CRI	Colour Temp (K)	Beam Angle (°)	Dimmable	Average Rated Life (Hrs)
<b>START eco Batten IP65</b>									
0045748	START eco Batten 1200 IP65 2600lm 840	18	2600	144	80	4000	120	No	30,000
0045750	START eco Batten 1200 IP65 5200lm 840	36	5200	144	80	4000	120	No	30,000
0045752	START eco Batten 1500 IP65 3300lm 840	23	3300	143	80	4000	120	No	30,000
0045754	START eco Batten 1500 IP65 6000lm 840	42	6000	143	80	4000	120	No	30,000

\* 3000K available on demand

### Photometric Data



Single IP65 1200 4000K    Twin IP65 1200 4000K

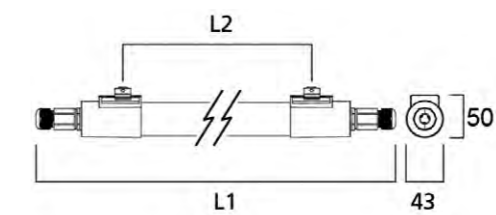
### Additional Images



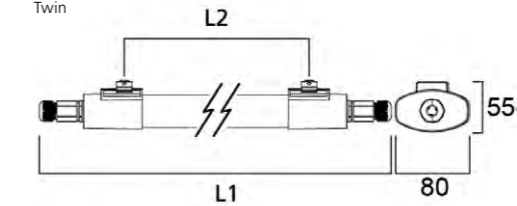
### Dimensions (mm)

Single	L1 (mm)	L2 (mm)
0045748	1280	1080
0045752	1570	1370
Twin	L1 (mm)	L2 (mm)
0045750	1260	1065
0045754	1560	1365

Single



Twin



**SYLVANIA**



## Industrial LED Floodlight

Kalani



Highly efficient, durable die-cast aluminium body makes Kalani a perfect choice for recreational sport, building facade, parking lot or area lighting applications providing 1:1 replacement of conventional technologies.

The family comes in 5 different sizes, available in Symmetric and Asymmetric beam angles, offering wide range of accessories.

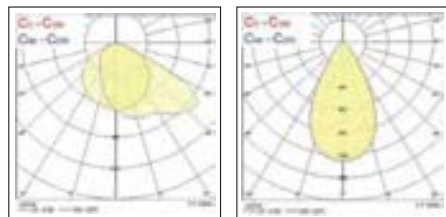
## Features

- Robust Exterior floodlight made of die-cast aluminium body
- Universal mounting bracket allows wall or surface mounting with the possibility of tilting upwards or downwards
- Quick and easy to install with 1.5m pre-wired stripped cable and fitting bracket
- Wide range of lm output 6200 - 41,800lm – 1:1 replacement up to 400/600W conventional solutions
- Symmetrical Wide (60°) or Asymmetrical (65° x 120° imax @ 55°) light distribution
- Efficacy up to 140lm/W
- Available as standard in Neutral White (4000K) and Warm White (3000K)
- CRI >80, SDCM<3
- High protection class: IP66
- Heavy duty housing: IK08
- Operating temperature range: -30 to +50°C
- 1.5m cable included with the product, so no need to open the gear box during installation
- Lifespan: 100,000 hrs (L70/B50)
- 5 years warranty
- Post top adapters for different pole top diameters (60/76mm)
- Pole clamp for the complete range

## Product information

Code	Description	Luminaire Lumen Output (lm)	Total System Power Consumption (W)	Efficacy (lm/W)	Controls	Beam Angle (°)	Colour Temperature (K)	Weight (kg)
<b>Kalani Luminaires</b>								
0048524	Kalani IP66 6KLM 830 WB	6300	50	126	Non-dimmable	60	3000	2.5
0048525	Kalani IP66 6KLM 830 ASYM	6200	50	124	Non-dimmable	65*120	3000	2.5
0048526	Kalani IP66 13KLM 830 WB	13400	100	134	Non-dimmable	60	3000	3.9
0048527	Kalani IP66 13KLM 830 ASYM	12,800	100	128	Non-dimmable	65*120	3000	3.9
0048528	Kalani IP66 20KLM 830 WB	19,900	150	133	Non-dimmable	60	3000	4.6
0048529	Kalani IP66 20KLM 830 ASYM	19,350	150	129	Non-dimmable	65*120	3000	4.6
0048530	Kalani IP66 26KLM 830 WB	25,500	200	128	Non-dimmable	60	3000	6.2
0048531	Kalani IP66 26KLM 830 ASYM	25,100	200	126	Non-dimmable	65*120	3000	6.2
0048532	Kalani IP66 39KLM 830 WB	38,200	300	127	Non-dimmable	60	3000	9.6
0048533	Kalani IP66 39KLM 830 ASYM	37,500	300	125	Non-dimmable	65*120	3000	9.6
0048534	Kalani IP66 6KLM 840 WB	6700	50	134	Non-dimmable	60	4000	2.5
0048535	Kalani IP66 6KLM 840 ASYM	6450	50	129	Non-dimmable	65*120	4000	2.5
0048536	Kalani IP66 13KLM 840 WB	14,000	100	140	Non-dimmable	60	4000	3.9
0048537	Kalani IP66 13KLM 840 ASYM	13,200	100	132	Non-dimmable	65*120	4000	3.9
0048538	Kalani IP66 20KLM 840 WB	20,800	150	139	Non-dimmable	60	4000	4.6
0048539	Kalani IP66 20KLM 840 ASYM	20,100	150	134	Non-dimmable	65*120	4000	4.6
0048540	Kalani IP66 26KLM 840 WB	27,600	200	138	Non-dimmable	60	4000	6.2
0048541	Kalani IP66 26KLM 840 ASYM	26,400	200	132	Non-dimmable	65*120	4000	6.2
0048542	Kalani IP66 39KLM 840 WB	41,800	300	139	Non-dimmable	60	4000	9.6
0048543	Kalani IP66 39KLM 840 ASYM	40,100	300	134	Non-dimmable	65*120	4000	9.6

## Photometric Data



Asymmetric Wide

Symmetric Wide

Code	Description	Weight
<b>Kalani Accessories</b>		
2824175	Raiden 3-21klm/Kalani Post Top Adaptor 60mm	2.9
2824176	Raiden 3-21klm/Kalani Post Top Adaptor 76mm	2.9
2824177	Raiden 3-21klm/Kalani Pole Clamp	3.0

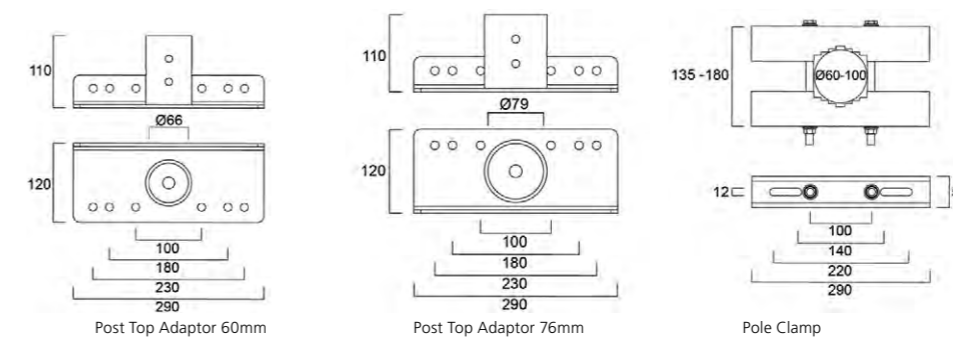
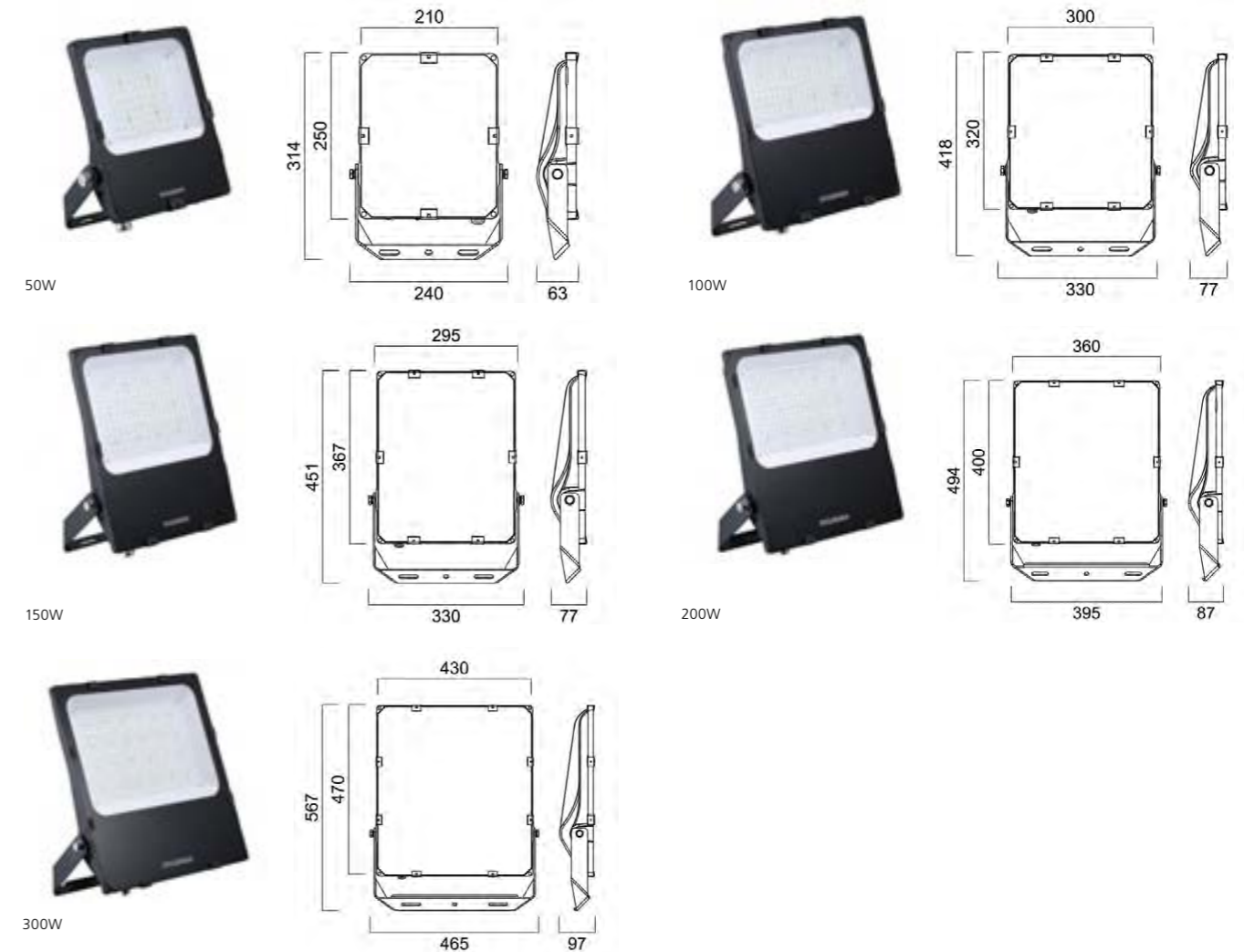


Post Top Adaptor



Pole clamp

## Dimensions (mm)



Post Top Adaptor 60mm

Post Top Adaptor 76mm

Pole Clamp

**SYLVANIA**



## Industrial LED Floodlight

### **START** Flood Flat

The streamlined, durable, lightweight die-cast aluminium body makes START Flood Flat a perfect choice for building facades, car parks, garages and construction areas.

The floodlight includes a 1m pre-wired stripped cable and fitting bracket for quick and easy installation. The universal mounting bracket allows wall or surface mounting with the possibility of vertical tilting.

The range comes with IP rated passive infrared sensor that is now tiltable for better adjustment of detection areas.

Available in a wide range of lumen packages from 950 lumens up to 10,000 lumens, with a choice of warm white (3000K) and neutral white (4000K) colour temperatures.



# START Flood Flat



## Features

- Slim LED exterior floodlight with/without PIR
- Lightweight, durable, die-cast aluminium body
- Universal mounting bracket allows wall or surface mounting with the possibility of tilting upwards or downwards
- Possibility to tilt the sensor
- Quick and easy to install with 1m pre-wired stripped cable and fitting bracket
- Higher wattages up to 73W - 137 lm/W efficacy
- Available in 3000K or 4000K
- CRI >80
- IP65 rated, sensor version IP54
- 9-45W: IK06, 63-73W: IK07 impact proof, sensor: IK05
- Operating temperature range: -20 to +40°C
- Lifespan: 90,000 hrs (L70/B50)
- 3 years warranty
- Sensor: adjustable lux (2 to 2000 lux) and time levels (10 secs to 5 min)

## Product information

Code	Description	System power consumption (W)	Lumen output (lm)	Efficacy (lm/W)	IP Rating	IK Rating	Colour Temperature Name	Colour Temperature (K)	Weight (kg)
<b>START Flood Flat</b>									
0050105	Start Flood Flat IP65 950lm 830 Black	9	950	106	IP65	IK06	Warm White	3000	0.32
0050106	Start Flood Flat IP65 1000lm 840 Black	9	1000	111	IP65	IK06	Neutral White	4000	0.32
0050109	Start Flood Flat IP65 1850lm 830 Black	18	1850	103	IP65	IK06	Warm White	3000	0.39
0050110	Start Flood Flat IP65 2000lm 840 Black	18	2000	111	IP65	IK06	Neutral White	4000	0.39
0050113	Start Flood Flat IP65 2850lm 830 Black	27	2850	106	IP65	IK06	Warm White	3000	0.51
0050114	Start Flood Flat IP65 3000lm 840 Black	27	3000	111	IP65	IK06	Neutral White	4000	0.51
0050117	Start Flood Flat IP65 4650lm 830 Black	45	4650	103	IP65	IK06	Warm White	3000	0.74
0050118	Start Flood Flat IP65 5000lm 840 Black	45	5000	111	IP65	IK06	Neutral White	4000	0.74
0050121	Start Flood Flat IP65 6500lm 830 Black	63	6500	103	IP65	IK07	Warm White	3000	1.19
0050122	Start Flood Flat IP65 7000lm 840 Black	63	7000	111	IP65	IK07	Neutral White	4000	1.19
0050125	Start Flood Flat IP65 9300lm 830 Black	73	9300	127	IP65	IK07	Warm White	3000	1.19
0050126	Start Flood Flat IP65 10000lm 840 Black	73	10000	137	IP65	IK07	Neutral White	4000	1.19
<b>START Flood Flat PIR</b>									
0050129	Start Flood Flat IP54 PIR 950lm 830 Black	10	950	95	IP54	IK05	Warm White	3000	0.475
0050130	Start Flood Flat IP54 PIR 1000lm 840 Black	10	1000	100	IP54	IK05	Neutral White	4000	0.475
0050134	Start Flood Flat IP54 PIR 2000lm 840 Black	19	2000	105	IP54	IK05	Neutral White	4000	0.475
0050137	Start Flood Flat IP54 PIR 2850lm 830 Black	28	2850	102	IP54	IK05	Warm White	3000	0.575
0050138	Start Flood Flat IP54 PIR 3000lm 840 Black	28	3000	107	IP54	IK05	Neutral White	4000	0.575
0050141	Start Flood Flat IP54 PIR 4650lm 830 Black	46	4650	101	IP54	IK05	Warm White	3000	0.8
0050142	Start Flood Flat IP54 PIR 5000lm 840 Black	46	5000	109	IP54	IK05	Neutral White	4000	0.8

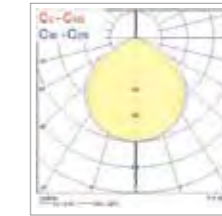
# START Flood Flat



## Additional Images

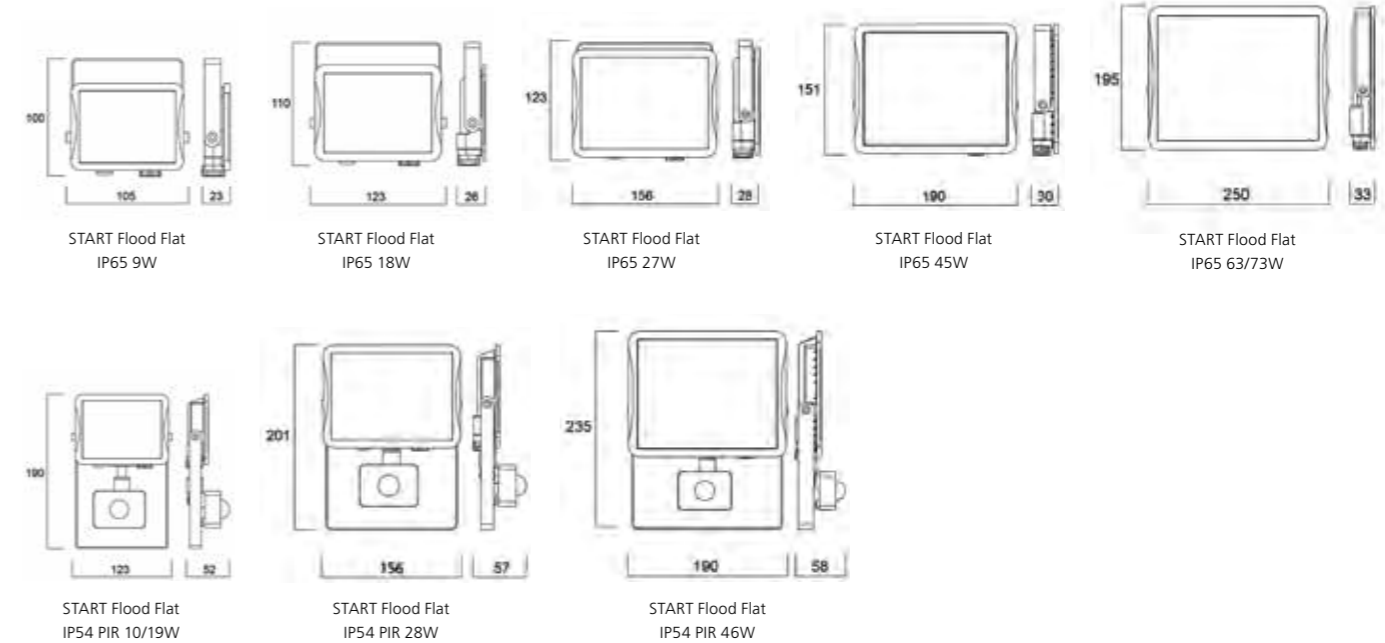


## Photometric Data



START Flood Flat  
All codes, both house colours

## Dimensions (mm)



**SYLVANIA**



## **START** Highbay



The new entry-level Highbay

START Highbay is a range of industrial fixtures developed for factory floor production areas, storage warehouses, airports, supermarkets, DIY superstores and large commercial areas. With a lumen maintenance of L70:B50 -

90,000hrs, a 5 year warranty and energy efficient LED technology - START Highbay can reduce your operational costs and lower your energy consumption.



# START Highbay



## Features

- High performance: delivers 20,700lm (luminaire lumen output on 180W version), with up to 115lm/W (total system efficiency)
- 3 different lumen packages (10klm, 15klm, 20klm)
- Surge protection: L/N-PE:6kV,L-N:4kV
- Photobiological risk group: RG1
- Operating temperature from -20 to +45°C
- Available in neutral white (4,000K) and cool white (6,500K\*) colours
- Additional accessories: shade, mounting brackets and suspension chain for usage in different applications

## Product information

Code	Description	Fixture Power (W)	Luminous Flux (lm)	Efficacy (lm/W)	Beam Angle (°)	Colour Temp (K)	Control Technology	SDCM
<b>START Highbay</b>								
0039614	START Highbay IP65 10,000lm 840 WB	90	10,350	115	95	4000	Non dimmable	5
0039615	START Highbay IP65 15,000lm 840 WB	135	15,500	115	95	4000	Non dimmable	5
0039616	START Highbay IP65 20,000lm 840 WB	180	20,700	115	95	4000	Non dimmable	5
0039629	START Highbay IP65 10,000lm 865 WB*	90	10,350	115	95	6500	Non dimmable	5

\* on request

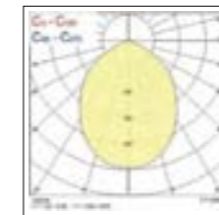
Code	Description
<b>Accessories</b>	
0039632	START Highbay Suspension Chain 1m
0039636	START Highbay Alu Shade
0039638	START Highbay Bracket and Arm



START Highbay Alu Shade

START Highbay Suspension Chain

## Photometric Data

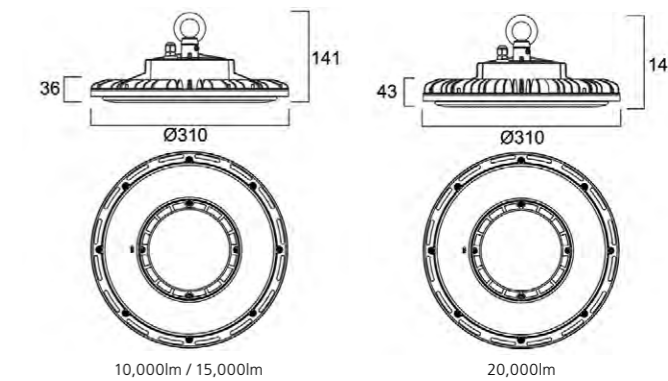


START Highbay Bracket and Arm

## Additional Images



## Dimensions (mm)



**SYLVANIA**



## Robust design, perfect function

**START** Surface IP66



START Surface IP66 is a range of surface mounted luminaires developed for residential and commercial entrance ways and corridors. With an IP66 rating and Sensor Dim or DALI version, which enables additional energy savings, these luminaires are perfect for interior and exterior applications.

START Surface IP66 benefits from a robust design that meets IK10 requirements. The range comes in 2 different colour temperatures (3000K & 4000K) and delivers up to 2500lm with efficacy up to 107lm/W (4000K version).

# START Surface IP66 300mm



## Features

- A range of LED surface mounted luminaires with 300mm diameter, vandal resistant, perfect for interior and exterior applications including residential and commercial entrance ways and corridors
- Robust design meets IK10 requirements
- Available in Standard and standalone Sensor dimming versions with Corridor function
- Sensor dimming version provides a wide range of settings (including Corridor function) for optimisation of daylight and power consumption
- High performance: delivers up to 1250lm and up to 104lm/W (total system efficiency)
- Available in warm white (3000K) and neutral white (4000K)
- Lifespan: 90,000 hours at 70% of the original output (L70B50)
- Eyelid accessory available
- Available in black or white
- Loop in - loop out (LILO) capability for the non-dimmable

## Product information

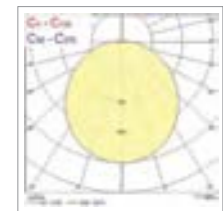
Code	Description	Luminaire Colour	Luminaire Colour (RAL)	Colour Temperature (K)	CRI	Fixture Lumen (lm)	Total Power Consumption (W)	Efficiency (lm/W)	Fixture Diameter (mm)	Fixture Height (mm)	Voltage (V)
<b>START Surface IP66</b>											
0049926	START SURFACE IP66 1150LM 830 BLK	Black	RAL9011	3000	80	1150	12	96	300	90	220-240
0049927	START SURFACE IP66 1250LM 840 BLK	Black	RAL9011	4000	80	1250	12	104	300	90	220-240
0049928	START SURFACE IP66 1150LM 830 WHT	White	RAL9003	3000	80	1150	12	96	300	90	220-240
0049929	START SURFACE IP66 1250LM 840 WHT	White	RAL9003	4000	80	1250	12	104	300	90	220-240
<b>START Surface IP66 Sensor Dim</b>											
0049288	START Surface IP66 1050lm 830 IK10 SensorDim BLK	Black	RAL9011	3000K	80	1050	12	88	300	90	220-240
0049289	START Surface IP66 1100lm 840 IK10 SensorDim BLK	Black	RAL9011	4000K	80	1100	12	92	300	90	220-240
0049290	START Surface IP66 1050lm 830 IK10 SensorDim WHT	White	RAL9003	3000K	80	1050	12	88	300	90	220-240
0049291	START Surface IP66 1100lm 840 IK10 SensorDim WHT	White	RAL9003	4000K	80	1100	12	92	300	90	220-240

Code	Description	Grid Size (mm)	Body Colour
<b>Accessories</b>			
0049342	START Surface IP66 300mm Eyelid BLK	300	Black
0049343	START Surface IP66 300mm Eyelid WHT	300	White

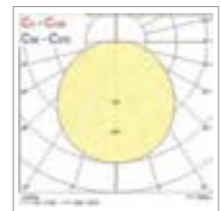


## Photometric Data

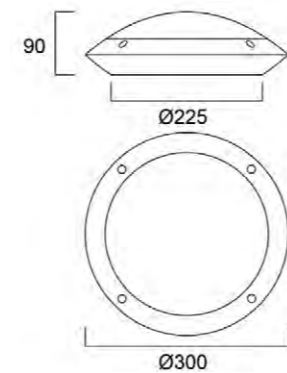
START Surface IP66 1050lm 3K



START Surface IP66 1100lm 4K



## Dimensions (mm)



# START Surface IP66 350mm



## Features

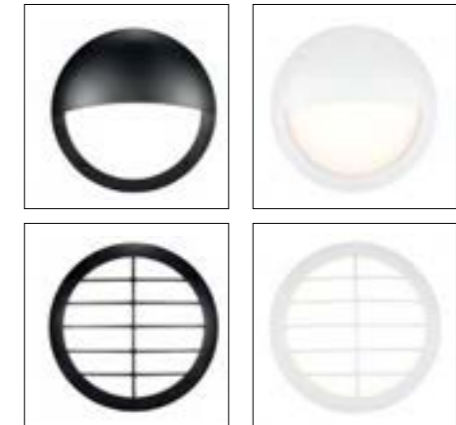
- A range of LED surface mounted luminaires with 350mm diameter, vandal resistant, perfect for interior and exterior applications including residential and commercial entrance ways and corridors
- Robust design meets IK10 requirements
- High performance: delivers up to 2950lm and up to 133lm/W (total system efficiency)
- Unique feature allowing a choice of the lumen output with the flick of a switch: choose the light level you need and set it during the installation (not available as standard on emergency version)
- Available in warm white (3000K) and neutral white (4000K)
- Lifespan: 100,000 hours at 70% of the original output (L70B50)
- Eyelid and Grille accessory available
- Available in black or white

## Product information

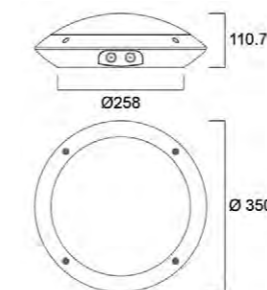
Code	Description	Luminaire Colour	Luminaire Colour (RAL)	Colour Temperature (K)	CRI	Max. Fixture lumen (lm)	Min. Fixture lumen (lm)	Total Power Consumption (W)	Efficiency (lm/W)	Fixture Diameter (mm)	Fixture Height (mm)	Voltage (V)
<b>START Surface IP66</b>												
0049292	SRT SURFACE IP66 860-2800LM 830 WH	White	RAL9003	3000K	80	2800	860	7 - 24	117 - 128	350	111	220-240
0049293	SRT SURFACE IP66 900-2950LM 840 WH	White	RAL9003	4000K	80	2950	900	7 - 24	123 - 133	350	111	220-240
0049294	SRT SURFACE IP66 860-2800LM 830 BK	Black	RAL9011	3000K	80	2800	860	7 - 24	117 - 128	350	111	220-240
0049295	SRT SURFACE IP66 900-2950LM 840 BK	Black	RAL9011	4000K	80	2950	900	7 - 24	123 - 133	350	111	220-240

Code	Description	Luminaire Colour	Luminaire Colour (RAL)	Colour Temperature (K)	CRI	Fixture lumen (lm)	Total Power Consumption (W)	Efficiency (lm/W)	Emergency duration (hours)	Fixture Diameter (mm)	Fixture Height (mm)	Voltage (V)
<b>START Surface IP66 Emergency</b>												
0049008	START Surface IP66 1450lm 830 IK10 EM WHT	White	RAL9003	3000	80	1450	14	104	3	350	111	220-240
0049009	START Surface IP66 1500lm 840 IK10 EM WHT	White	RAL9003	4000	80	1500	14	107	3	350	111	220-240
0049010	START Surface IP66 1450lm 830 IK10 EM BLK	Black	RAL9011	3000	80	1450	14	104	3	350	111	220-240
0049011	START Surface IP66 1500lm 840 IK10 EM BLK	Black	RAL9011	4000	80	1500	14	107	3	350	111	220-240

Code	Description	Grid Size (mm)	Body Colour
<b>Accessories</b>			
0049032	START Surface IP66 350mm Eyelid WHT	350	White
0049033	START Surface IP66 350mm Eyelid BLK	350	Black
0049034	START Surface IP66 350mm Grille WHT	350	White
0049035	START Surface IP66 350mm Grille BLK	350	Black

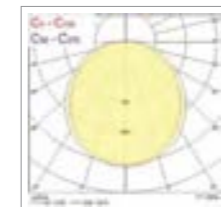


## Dimensions (mm)

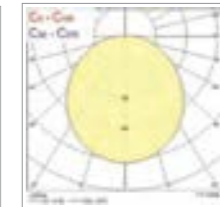


## Photometric Data

START Surface IP66 1500lm 4000K



START Surface IP66 2500lm 4000K



# START Surface IP66 350mm Sensor Dim



## Features

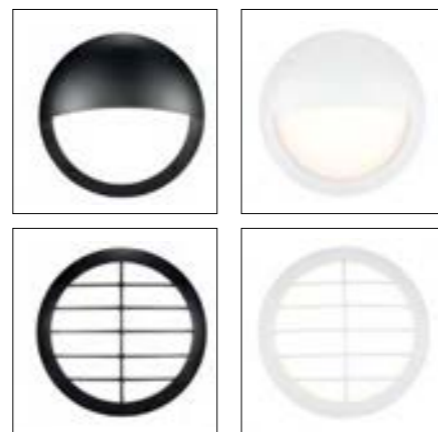
- A range of LED surface mounted luminaires with 350mm diameter, vandal resistant, perfect for interior and exterior applications including residential and commercial entrance ways and corridors
- Robust design meets IK10 requirements
- Sensor dimming standalone version with Corridor function: set up hold time, standby time and daylight level
- Adjustable microwave sensor with two levels of sensitivity (100%-50%)
- Unique feature allowing a choice of the lumen output with the flick of a switch: choose the light level you need and set it during the installation
- High performance: delivers up to 2500lm and up to 107lm/W (total system efficiency)
- Available in warm white (3000K) and neutral white (4000K)
- Lifetime: 50,000 hours at 70% of the original output (L70)
- Eyelid and Grille accessory available
- Available in black or white

## Product information

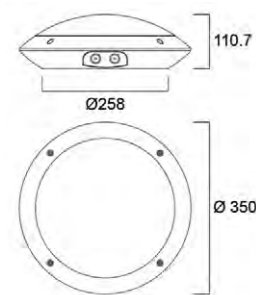
Code	Description	Luminaire Colour	Luminaire Colour (RAL)	Colour Temperature (K)	CRI	Max. Fixture lumen (lm)	Min. Fixture lumen (lm)	Total Power Consumption (W)	Efficiency (lm/W)	Fixture Diameter (mm)	Fixture Height (mm)	Voltage (V)
<b>START Surface IP66</b>												
0049004	START Surface IP66 1450lm 830 IK10 MW WHT	White	RAL9003	3000	80	1450	1400	14	104	350	111	220-240
0049005	START Surface IP66 1500lm 840 IK10 MW WHT	White	RAL9003	4000	80	1500	1450	14	107	350	111	220-240
0049006	START Surface IP66 1450lm 830 IK10 MW BLK	Black	RAL9011	3000	80	1450	1400	14	104	350	111	220-240
0049007	START Surface IP66 1500lm 840 IK10 MW BLK	Black	RAL9011	4000	80	1500	1450	14	107	350	111	220-240
0049020	START Surface IP66 2400lm 830 IK10 MW WHT	White	RAL9003	3000	80	2400	1650	25	96	350	111	220-240
0049021	START Surface IP66 2500lm 840 IK10 MW WHT	White	RAL9003	4000	80	2500	1750	25	100	350	111	220-240
0049022	START Surface IP66 2400lm 830 IK10 MW BLK	Black	RAL9011	3000	80	2400	1650	25	96	350	111	220-240
0049023	START Surface IP66 2500lm 840 IK10 MW BLK	Black	RAL9011	4000	80	2500	1750	25	100	350	111	220-240

Code	Description	Luminaire Colour	Luminaire Colour (RAL)	Colour Temperature (K)	CRI	Fixture lumen (lm)	Total Power Consumption (W)	Efficiency (lm/W)	Emergency duration (hours)	Fixture Diameter (mm)	Fixture Height (mm)	Voltage (V)
<b>START Surface IP66 Sensor Dim Emergency</b>												
0049012	START Surface IP66 1450lm 830 IK10 MW+EM WHT	White	RAL9003	3000	80	1450	14	104	3	350	111	220-240
0049013	START Surface IP66 1500lm 840 IK10 MW+EM WHT	White	RAL9003	4000	80	1500	14	107	3	350	111	220-240
0049014	START Surface IP66 1450lm 830 IK10 MW+EM BLK	Black	RAL9011	3000	80	1450	14	104	3	350	111	220-240
0049015	START Surface IP66 1500lm 840 IK10 MW+EM BLK	Black	RAL9011	4000	80	1500	14	107	3	350	111	220-240

Code	Description	Grid Size (mm)	Body Colour
<b>Accessories</b>			
0049032	START Surface IP66 350mm Eyelid WHT	350	White
0049033	START Surface IP66 350mm Eyelid BLK	350	Black
0049034	START Surface IP66 350mm Grille WHT	350	White
0049035	START Surface IP66 350mm Grille BLK	350	Black



## Dimensions (mm)



## Photometric Data

START Surface IP66 1500lm 4000K



START Surface IP66 2500lm 4000K



# START Surface IP66 350mm DALI



## Features

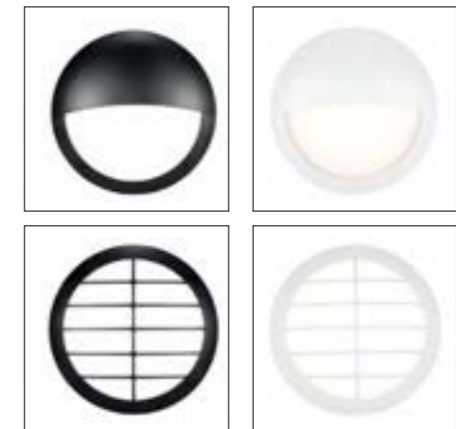
- A range of LED surface mounted luminaires with 350mm diameter, vandal resistant, perfect for interior and exterior applications including residential and commercial entrance ways and corridors
- DALI dimming version with switch dim option, compatible with DALI 1 and DALI 2 standards
- Robust design meets IK10 requirements
- High performance: delivers up to 2500lm and up to 96lm/W (total system efficiency)
- Available in warm white (3000K) and neutral white (4000K)
- Lifetime: 60,000 hours at 70% of the original output (L70)
- Eyelid and Grille accessory available
- Available in black or white

## Product information

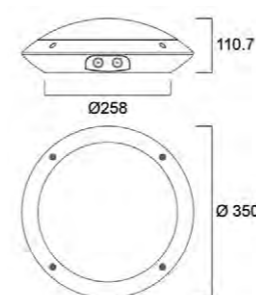
Code	Description	Luminaire Colour	Luminaire Colour (RAL)	Colour Temperature (K)	CRI	Fixture Lumen (lm)	Total Power Consumption (W)	Efficiency (lm/W)	Fixture Diameter (mm)	Fixture Height (mm)	Voltage (V)	Emergency duration (hours)
<b>START Surface IP66 DALI</b>												
0049245	START Surface IP66 1450lm 830 IK10 DA WHT	White	RAL9003	3000	80	1450	14	107	350	111	220-240	-
0049246	START Surface IP66 1500lm 840 IK10 DA WHT	White	RAL9003	4000	80	1500	14	111	350	111	220-240	-
0049247	START Surface IP66 1450lm 830 IK10 DA BLK	Black	RAL9011	3000	80	1450	14	107	350	111	220-240	-
0049248	START Surface IP66 1500lm 840 IK10 DA BLK	Black	RAL9011	4000	80	1500	14	111	350	111	220-240	-
0049253	START Surface IP66 2400lm 830 IK10 DA WHT	White	RAL9003	3000	80	2400	26	92	350	111	220-240	-
0049254	START Surface IP66 2500lm 840 IK10 DA WHT	White	RAL9003	4000	80	2500	26	96	350	111	220-240	-
0049255	START Surface IP66 2400lm 830 IK10 DA BLK	Black	RAL9011	3000	80	2400	26	92	350	111	220-240	-
0049256	START Surface IP66 2500lm 840 IK10 DA BLK	Black	RAL9011	4000	80	2500	26	96	350	111	220-240	-

Code	Description	Luminaire Colour	Luminaire Colour (RAL)	Colour Temperature (K)	CRI	Fixture Lumen (lm)	Total Power Consumption (W)	Efficiency (lm/W)	Fixture Diameter (mm)	Fixture Height (mm)	Voltage (V)	Emergency duration (hours)
<b>START Surface IP66 DALI Emergency</b>												
0049249	START Surface IP66 1450lm 830 IK10 DA EM3 WHT	White	RAL9003	3000	80	1450	14	107	350	111	220-240	3
0049250	START Surface IP66 1500lm 840 IK10 DA EM3 WHT	White	RAL9003	4000	80	1500	14	111	350	111	220-240	3
0049251	START Surface IP66 1450lm 830 IK10 DA EM3 BLK	Black	RAL9011	3000	80	1450	14	107	350	111	220-240	3
0049252	START Surface IP66 1500lm 840 IK10 DA EM3 BLK	Black	RAL9011	4000	80	1500	14	111	350	111	220-240	3

Code	Description	Grid Size (mm)	Body Colour
<b>Accessories</b>			
0049032	START Surface IP66 350mm Eyelid WHT	350	White
0049033	START Surface IP66 350mm Eyelid BLK	350	Black
0049034	START Surface IP66 350mm Grille WHT	350	White
0049035	START Surface IP66 350mm Grille BLK	350	Black

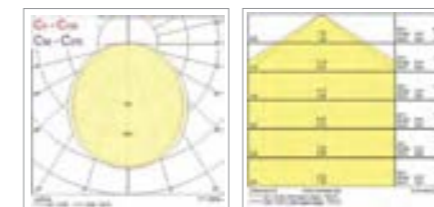


## Dimensions (mm)



## Photometric Data

START Surface IP66 1500lm 4000K



START Surface IP66 2500lm 4000K



**SYLVANIA**



## Contemporary twist on a classic bollard

**START** Bollard IP65

START Bollard IP65 is a modern take on the classic style bollard. Ideal for landscape lighting such as gardens, parks, pathways, and exterior commercial areas. Additionally, the START Bollard IP65 is suitable for coastal areas. The range is available in 0.5m and 1m with a robust IK10 rating.



# START Bollard IP65



## Features

- Contemporary designed bollard
- Perfect for landscape lighting such as gardens, parks, pathways & exterior commercial areas
- Salt spray tested for 1000 hours
- Robust design meets IK10 requirements
- Available in 2 heights: 500mm & 1000mm
- High efficient thermal design: ta -35 to +50°C
- High performance: delivers up to 1100lm (luminaire lumen output), and up to 42lm/W (total system efficiency)
- Available in Warm White (3000K) & Neutral White (4000K)
- Lifetime: 50,000 hours

## Product information

Code	Description	Driver	Body Colour	Height (m)	Colour Name	Colour Temperature (K)	Voltage (V)	Drive Current (mA)	System Power Consumption (W)	Lumen Output (lm)	Efficacy (lm/W)	Lifetime (Hour)	Weight (Kg)
<b>Start Bollard IP65</b>													
0047940	START Bollard M IP65 1100lm 830 BLK	Electronic	RAL9005	0.5	Warm White	3000	220-240	1200	26	1100	42	50,000	5.5
0047941	START Bollard L IP65 1100lm 830 BLK	Electronic	RAL9005	1	Warm White	3000	220-240	1200	26	1100	42	50,000	6.5
0047942	START Bollard M IP65 1100lm 840 BLK	Electronic	RAL9005	0.5	Neutral White	4000	220-240	1200	26	1100	42	50,000	5.5
0047943	START Bollard L IP65 1100lm 840 BLK	Electronic	RAL9005	1	Neutral White	4000	220-240	1200	26	1100	42	50,000	6.5

Legend: 830 = 80 CRI & 3000K CCT; 840 = 80 CRI & 4000K CCT, BLK = Black; M = Medium; L = Large

## Accessory

Code	Description
0047998	START Bollard IP65 Root Mounting KIT

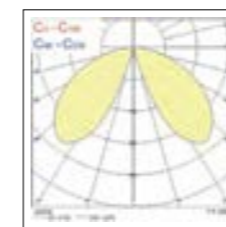


START Bollard IP65 Root Mounting Kit

## Additional image

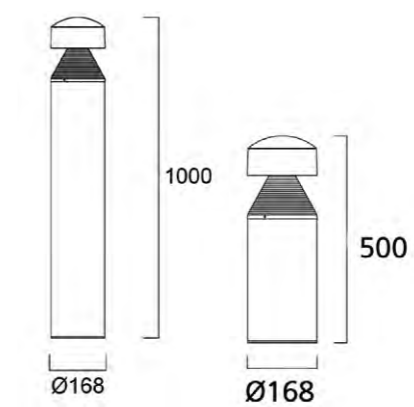


## Photometric Data



START Bollard IP65

## Dimensions (mm)





**SYLVANIA**



## Stylish ambiance lighting

### **START** Surface Wall

START Surface Wall Round and Cube are exterior wall mounted luminaires with direct or direct/indirect light beams for facade lighting.

The integrated switch allows choice between warm white (3000K) and neutral white (4000K) colour temperatures at any time.

The Round model is available only with painted Jet Black body while the Cube is available in Traffic White and Jet Black.

# START Surface Wall Cube



## Features

- Perfect for facade lighting
- Adjustable beam angle (0 – 94°)
- High quality die-cast aluminium housing
- Integrated switch allows choice between warm white (3000K) and neutral white (4000K) colour temperatures
- 2x~140 (280) lm light output 5.8W
- Efficacy up to 48lm/W
- Robust design meets IK05 and IP54 protection requirements
- Jet Black RAL 9005 or Traffic White RAL9016 colour finish
- 1000 hours Salt Spray test
- Wide range of ambient temperature: -20 °C to +45 °C
- SDCM < 3, CRI > 80
- Lifespan of 104,000 hours at L70:B50

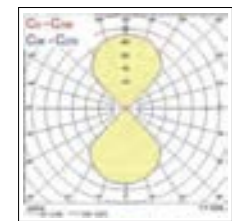
## Product information

Code	Description	Housing colour	Fixture lumen (lm)	Total Power Consumption (W)	Luminaire efficacy (lm/W)	Correlated Colour Temperature (K)	Mains voltage (V)	Beam angle (°)	Lifespan L70:B50	Lifespan L80:B20
0047136	START Surface Wall Cube IP54 2x140lm 2CCT Black	JET Black RAL 9005	280	5.8	48	DuoCCT (3000/4000K)	220-240	0-94	104,000	67,000
0047137	START Surface Wall Cube IP54 2x140lm 2CCT White	Traffic White RAL9016	280	5.8	48	DuoCCT (3000/4000K)	220-240	0-94	104,000	67,000

## Additional images

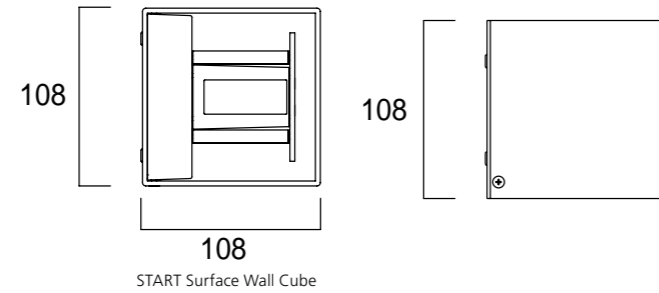


## Photometric data



START Surface Wall Cube

## Dimension (mm)



START Surface Wall Cube

# START Surface Wall Round



## Features

- Perfect for facade lighting
- Direct or direct/indirect light beam (40°)
- High quality die cast aluminium housing
- Integrated switch allows to choose between warm white (3000K) and neutral white (4000K) colour temperatures
- 500lm / 2x450 lm light output
- Efficacy up to 79lm/W
- Robust design meets IK07 and IP54 protection – designed to last outdoors
- Jet Black RAL 9005 colour finish
- 1000 hours Salt Spray test
- Wide range of ambient temperature: -20 °C to +40 °C
- SDCM < 3, CRI > 80
- Lifespan of 90,000 hours at L70:B50

## Product information

Code	Description	Housing colour	Fixture lumen (lm)	Total Power Consumption (W)	Luminaire efficacy (lm/W)	Correlated Colour Temperature (K)	Mains voltage (V)	Beam Angle (°)	Lifespan L70:B50	Lifespan L80:B20
0047134	START Surface Wall Round IP54 500lm Direct 2CCT	RAL 9005 - Jet black	500	6.7	75	DuoCCT (3000/4000K)	220-240	40	90,000	50,000
0047135	START Surface Wall Round IP54 2x450lm D/I 2CCT	RAL 9005 - Jet black	900	11.4	79	DuoCCT (3000/4000K)	220-240	40	90,000	50,000

## Additional Images

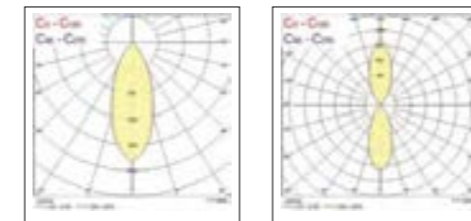


START Surface Wall Round direct beam



START Surface Wall Round direct-indirect beam

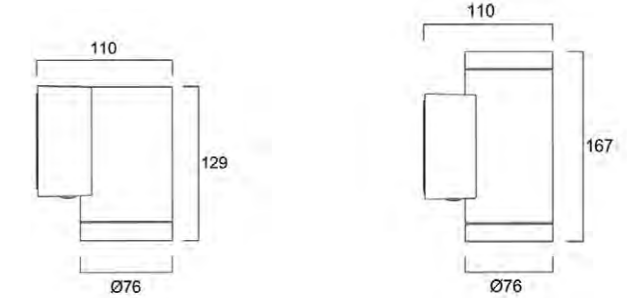
## Photometric Data



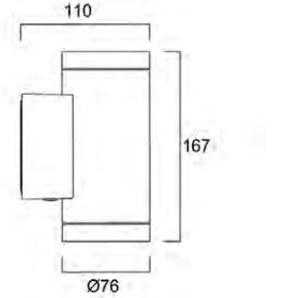
START Surface Wall Round direct beam

START Surface Wall Round direct-indirect beam

## Dimensions (mm)



START Surface Wall Round direct beam



START Surface Wall Round direct-indirect beam

**SYLVANIA**



## A smart solution to every need

### **SylSmart** Wireless Controls

There is a full range of Concord and Sylvania luminaires enabled with the SylSmart Standalone or SylSmart Connected control systems.



#### **SylSmart Standalone**

**MAXIMUM CONTROL.  
MINIMUM INSTALLATION.**






Multifunctional & easy to control  
– deal for smaller applications

#### **SylSmart Connected**






**LIGHTING INTELLIGENCE MADE EASY**

Modular, scalable and secure – luminaire integrated control system optimised for multiple interconnected rooms in buildings

# SylSmart Standalone

Image	Size / Type	Description	Item code	Emergency code	System Power consumption (W)	Lumens (lm)	Lumen/Watt (lm / W)	UGR	CRI	SDCM	Comments
<b>Recessed Modular Quadro</b>											
	600	Quadro UGR16 600x600 4450Lm 830 SSC	<b>0047026</b>		36	4450	124	16	80	5	Made to order
	600	Quadro UGR16 600x600 4600Lm 840 SSC	<b>0047027</b>		36	4600	128	16	80	5	Made to order
<b>Panels START Panel</b>											
	600	START Panel UGR19 600x600 3800Lm 830 SSC	<b>0042893</b>		40	4000	100	19	80	5	Made to order
	600	START Panel UGR19 600x600 4000Lm 840 SSC	<b>0042894</b>		40	4000	100	19	80	5	Made to order
	600	START Panel UGR19 600x600 4600Lm 830 SSC	<b>0042896</b>		46	4 550	104	19	80	5	Made to order
	600	START Panel UGR19 600x600 4800Lm 840 SSC	<b>0042897</b>		46	4800	104	19	80	5	Made to order
	1200	START Panel UGR19 1200x300 3600Lm 830 SSC	<b>0042899</b>		35	3 400	100	19	80	5	Made to order
	1200	START Panel UGR19 1200x300 3800Lm 840 SSC	<b>0042900</b>		35	3 550	100	19	80	5	Made to order
<b>LED Drivers Driver</b>											
		CV DRIVER SSC 35W 24V (28002415)	<b>9014913</b>		35						Range of Constant Voltage 24V LED drivers with inbuilt SylSmart Standalone controls - Ideal for use with Sylvania LED Strip lighting
		CV DRIVER SSC 60W 24V (28002416)	<b>9014914</b>		60						
		CV DRIVER SSC 100W 24V (28002417)	<b>9014915</b>		100						
		CV DRIVER SSC 150W 24V (28002418)	<b>9014916</b>		150						
<b>Downlights START Downlight</b>											
		START DOWNLIGHT 205 IP44 SSC01 1950LM 830	<b>0030375</b>		21	1950	93	25	80	5	Made to order
		START DOWNLIGHT 205 IP44 SSC01 2025LM 840	<b>0030376</b>		21	2025	96	25	80	5	Made to order
<b>Weatherproof Resisto</b>											
	No Sensor	Resisto 1200 IP66 2800lm 840 SSC	<b>0010226</b>		23	2800	122	22	80	5	IP66 highbay
		Resisto 1200 IP66 4800lm 840 SSC	<b>0010227</b>		37	4800	130	24	80	5	IP66 highbay
		Resisto 1500 IP66 4000lm 840 SSC	<b>0010262</b>		32	4000	125	23	80	5	IP66 highbay
		Resisto 1500 IP66 7100lm 840 SSC	<b>0010263</b>		54	7100	131	25	80	5	IP66 highbay
	With Sensor	Resisto 1200 IP66 2800lm 840 SSC S	<b>0010228</b>		25	2800	112	22	80	5	IP66 highbay with integrated sensor
		Resisto 1200 IP66 4800lm 840 SSC S	<b>0010229</b>		39	4800	123	24	80	5	IP66 highbay with integrated sensor
		Resisto 1500 IP66 4000lm 840 SSC S	<b>0010264</b>		34	4000	118	23	80	5	IP66 highbay with integrated sensor
		Resisto 1500 IP66 7100lm 840 SSC S	<b>0010265</b>		56	7100	127	25	80	5	IP66 highbay with integrated sensor

# SylSmart Standalone

Image	Description	Item code	System Power consumption (W)	Comments
<b>SylSmart Controls</b>				
	SYLSMART SSC PWM4	<b>9041535</b>		SylSmart Standalone 4channel 12/24V Controller RGBW
	EWSDDB-FS WALL SWITCH	<b>0041538</b>		Wireless, Energy harvesting 4-button Wall Switch - White
	SYLSMART SSC CBU TED	<b>2691862</b>		SylkSmart Standalone Trailing Edge Dimmer module
	SYLSMART SSC CBU TED SYLSMART SENSOR 5DP 38RC SM KIT SSC	<b>9041532</b>		SylSmart Standalone 5DP 38rc surface kit
	SYLSMART SENSOR 5DP 38RC SSC	<b>9041531</b>	0,17	Detached sensor for SylSmart Standalone - Recessed Room sensor (3m)

SylSmart Standalone enabled luminaires are not compatible with SylSmart Connected luminaires.



## SylSmart Connected










Image	Size / Type	Description	Item code	System Power consumption (W)	Lumens (lm)	Lumen/Watt (lm / W)	UGR	CRI	SDCM	Comments
<b>Panels START Panel</b>										
	600	START Panel UGR19 600x600 3800lm 830 SSA02	<b>0042388</b>	36	3800	106	19	80	3	Made to order
	600	START Panel UGR19 600x600 4000lm 840 SSA02	<b>0042389</b>	36	4000	111	19	80	3	Made to order
	600	START Panel UGR19 600x600 4600lm 830 SSA02	<b>0042390</b>	43	4600	107	19	80	3	Made to order
	600	START Panel UGR19 600x600 4800lm 840 SSA02	<b>0042391</b>	43	4800	112	19	80	3	Made to order
	1200	START Panel UGR19 1200x300 3600lm 830 SSA02	<b>0042394</b>	36	3600	100	19	80	3	Made to order
	1200	START Panel UGR19 1200x300 3800lm 840 SSA02	<b>0042395</b>	36	3800	106	19	80	3	Made to order
<b>Weatherproof Resisto</b>										
	1200	Resisto 1200 IP66 2800lm 840 SSA	<b>0010230</b>	21	2800	133	22	80	5	With through-wiring
	1200	Resisto 1200 IP66 4800lm 840 SSA	<b>0010231</b>	35	4800	137	24	80	5	With through-wiring
	1500	Resisto 1500 IP66 4000lm 840 SSA	<b>0010266</b>	30	4000	133	23	80	5	With through-wiring
	1500	Resisto 1500 IP66 7100lm 840 SSA	<b>0010267</b>	52	7100	137	25	80	5	With through-wiring

Image	Description	Item Code	Comments
<b>SylSmart Controls</b>			
	EWSDB-FS WALL SWITCH	<b>0041538</b>	Wireless, Energy harvesting 4-button Wall Switch - White
	SYLSMART OT CABLE CLAMP N-STYLE PSU SSA	<b>9041518</b>	Strain relief for QBM CONVERTER 9041515
	SYLSMART QBM DALI CONVERTER LI	<b>9041511</b>	Bluetooth to DALI Converter to extend system control
	SYLSMART DALI PCD 1-300 DALI PHASE DIMMER SSA	<b>9041522</b>	DALI phase dimmer for use with DSK 9041523 and QBM CONV 9041511
	SYLSMART 492 DALI RELAY 16A	<b>9041714</b>	DALI 16A Relay controller for use with DSK 9041523 and QBM CONV 9041511
	SYLSMART HBIR29SV SSA	<b>9041523</b>	Detached sensor kit (DSK) for SylSmart Connected Building to extend system control reach
	SYLSMART HA03 SSA IP65	<b>9041524</b>	Surface mount kit for DSK 9041523

SylSmart Connected enabled luminaires are not compatible with SylSmart Standalone luminaires.

"D" in product description refers to DALI MASTER version code in linear applications, where the MASTER luminaire can control up to 3 additional DALI fixtures (SLAVES).



Secure by Design – the SylSmart Connected Building system is cyber security proven by BSI Group for Internet of Things (IOT) Foundation.



**SYLVANIA**



## Mix & match the tools to suit your business

### 360 Services



360 Services – For complete peace of mind  
Implementing a holistic project management approach that balances the best financial interests of clients with the achievement of sustainability objectives which helps businesses deliver energy and cost-efficient projects is a delicate task which requires deep understanding, careful and precise attention whilst reducing the barriers and disruptions to adoption.

Sylvania's 360 Services help customers save energy, decarbonise, de-risk their investment and project timelines, minimise disruption, ensure access to key financial schemes, and help protect their capital with turnkey solutions for all phases of their project that safeguard successful project execution and ensure the client's needs are met.







## SmartServices Codes

The product range within Smart Services will take your project through the required steps from conception, Audit, to completion, Commissioning, via all the required key stages.

Our Smart Services “toolkit” can facilitate projects of any size and complexity to make your life easier and your projects run smoothly.

Providing smart tools for your business...  
let Sylvania show You how!

### Features

-  Save Cost & Energy: assist your business efficiency & enhance profitability
-  Protect Capital: free up money, no investments needed
-  Reduce Risk: providing peace of mind through compliance
-  Deliver Sustainability: secure a futureproof, compliant & green facility

Tool	Code	Description	Service Description
<b>Audit</b>	<b>V990051</b>	Audit fee	Surveying the existing lighting situation at site, we can provide an asset register, check compliance & pinpoint saving opportunities.
	<b>V990048</b>	Project Management	Our specialized Project Managers connect cross-company teams to deliver projects to defined timelines & budgets.
<b>Installation (turnkey)</b>	<b>V990011</b>	Installation (by 3rd party)	Part of our “turnkey” solution we ensure that your new lighting is delivered on time & correctly installed.
	<b>V990012</b>	GBP TurnKey Install	
	<b>V990047</b>	Electrical Testing & Commissioning	
<b>Commissioning</b>	<b>V990039</b>	Commissioning & optimisation	Our specialists ensure efficient and optimized set up to suit your operation.
	<b>V990019</b>	GBP COMMISSIONING (3rd party)	
<b>Smart Finance</b>	<b>V990032</b>	EPC/EMC Hardware	For clients who are looking for performance guarantees to the project' deliverables.
	<b>V990033</b>	EPC/EMC Service	
<b>Extended Warranty &amp; Maintenance</b>	<b>V990020</b>	Extended Warranty - 4 year	For customers who are looking for service security to an extended time beyond standard product warranty.
	<b>V990021</b>	Extended Warranty - 5 year	
	<b>V990022</b>	Extended Warranty - 6 year	
	<b>V990023</b>	Extended Warranty - 7 year	
	<b>V990024</b>	Extended Warranty - 8 year	
	<b>V990025</b>	Extended Warranty - 9 year	
	<b>V990026</b>	Extended Warranty - 10 year	
	<b>V990049</b>	Maintenance Service	
<b>V990050</b>	Maintenance Service Smart		
<b>Goods Handling</b>	<b>V990027</b>	Storage of goods	We can facilitate customized deliveries & to arrange for compliant obsolete handling procedures.
	<b>V990028</b>	Waste Recycling and Collection	
<b>Measurement &amp; Verification</b>	<b>V950001</b>	SYLSMART Energy Auditor 6 Channel - 4G 1 YR	Measurement & Verification service captures the real time energy consumption for existing and new lighting solutions, allowing you to verify the savings achieved against the target ROI.
	<b>V950002</b>	SYLSMART Energy Auditor 6 Channel - 4G 3 YR	
	<b>V950003</b>	SYLSMART Energy Auditor 6 Channel - 4G 5 YR	
	<b>V950005</b>	ENERGY 3000A Auditor KIT 4G 1 YR	
	<b>V950006</b>	ENERGY 3000A Auditor KIT 4G 3YR	
	<b>V950007</b>	ENERGY 3000A Auditor KIT 4G 5 YR	
	<b>V950009</b>	ENERGY 4G ANTENNA	
	<b>V950010</b>	ENERGY 60 AMP CT KIT (3 PACK)	
	<b>V950011</b>	ENERGY 120 AMP CT KIT (3 PACK)	
	<b>V950012</b>	ENERGY 400 AMP CT KIT (3 PACK)	
	<b>V950013</b>	ENERGY 600 AMP CT KIT (3 PACK)	
	<b>V950014</b>	ENERGY 6 CHANNEL LICENCE 1 YR	
	<b>V950015</b>	ENERGY 6 CHANNEL LICENCE 3 YR	
	<b>V950016</b>	ENERGY 6 CHANNEL LICENCE 5 YR	
	<b>V950018</b>	ENERGY MOBILE DATA 1 YR	
<b>V950019</b>	ENERGY MOBILE DATA 3 YR		
<b>V950020</b>	ENERGY MOBILE DATA 5 YR		
<b>Other Fees</b>	<b>V990029</b>	Sales commission fee	We value our business partners who contribute by providing specialist services on a commission basis.
	<b>V990030</b>	SylSmart Sales commission fee	
	<b>V990031</b>	SylSmart Recurring revenue fee (to supplier)	

# Technical information

## Ballast lumen factor BLF (%)

Refers to the ratio of light output from the lamp on emergency operation to the nominal light output.

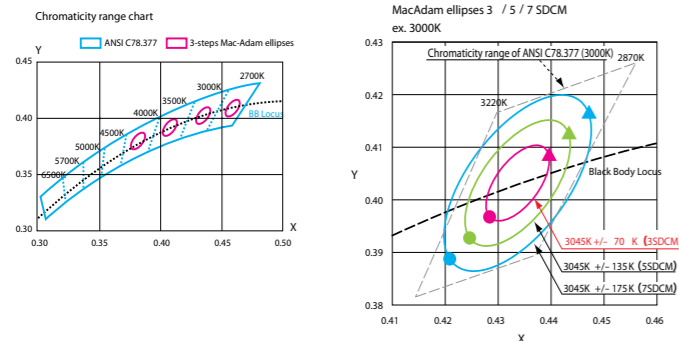
## Beam Angle

Indicates how broadly the light is emitted from a reflector lamp. It can be thought of as an imaginary cone whose apex intersects the lamp face, and the breadth of the cone extends outwards to the point where luminous intensity has diminished to 50% of the centre beam value.

## Binning

The term binning refers to the variations which occur within a single production batch of LED's such as chromaticity, lumen output and forward voltage. It is important that a specific bin has been identified and selected to ensure a uniform and constantly even lighting installation is achieved. If all the LED's were selected from one production batch and used in the same luminaire or installation, there would be a mix of colour temperatures and brightness levels. For the lighting manufacturer / designer binning is an essential part of LED specification.

MacAdam ellipses methodology was created in 1943 for mathematically constructing ellipses around target points, something which became very useful for the lamp industry. ANSI C78.377 is now the standard for chromaticity specified by the American National Standards Institute. ANSI recommends that lamp manufacturers stay within a "4-step" ellipse. This means that, given a certain target point on the CIE diagram, manufacturers are given a fairly wide range of perceptible differences.



## Candela (cd)

The unit of measurement for luminous intensity, which refers to the quantity of light emitted in a particular direction. The symbol is cd.

## Colour Correlated Temperature (CCT)

An incandescent light bulb is very close to a perfect black-body radiator, so its colour temperature is basically the temperature of the filament. However many light sources, such as fluorescent tubes or high intensity discharge lamps, emit light by processes other than thermal radiation and therefore it is not possible to apply the black-body spectrum. For these light sources it is possible to assign what is known as a colour correlated temperature (CCT). The CCT is the colour temperature of a black-body (Planckian) radiator which most closely matches the colour of the light emitted from the lamp.



Warm White 3,000K

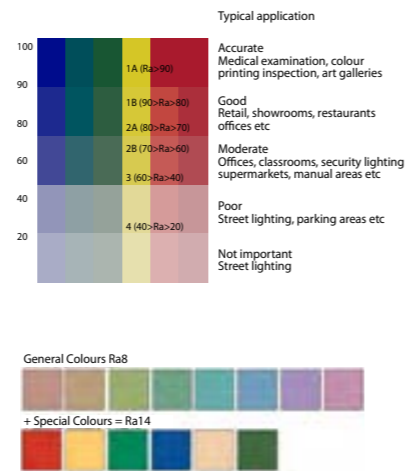


Neutral White 4,000K

## Colour Rendering Index (CRI)

The colour rendering of a light source is an indicator of its ability to realistically reproduce the colour of an object. The chart illustrates our ability to accurately determine colour depending on the colour rendering properties of the light source. The higher the colour rendering index (on a scale of 0 to 100) of the source the better our ability to perceive differences in colour, which is a considerable aid to highlighting fashion products and effective display of coloured artworks.

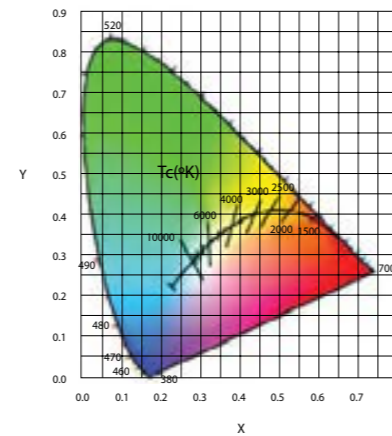
The CIE colour rendering index (CRI) is a method to determine how well a light source's illumination of eight standardised colour patches compares to the illumination provided by a reference source. At Ra (8) the perceived colour shift of eight reference colours is measured as a percentage and averaged to give one number. However it is currently understood that due to the spectral power distribution of LED's that instead of using the standard Ra8 it is important to include 7 additional colours which include red, yellow, blue & green and use Ra14 to ensure better results.



## Colour Temperature

Colour temperature is a characteristic of visible light that plays a significant role in lighting applications. The colour temperature of a light source is the temperature of a perfect black-body radiator that radiates light of a similar appearance to that of the light source. The colour temperature is measured in units of absolute temperature; Kelvin (K).

Colour temperature works paradoxically to our cultural associations with colour, red as hot and blue as cold. On the black-body curve, blue occurs at higher temperatures than red. A good example is a candle which has a warm red orange appearance but in fact has a low Kelvin temperature, 1,850K. Therefore higher colour temperatures (5,000K more) are called cool colours (bluish white); lower colour temperatures (2,700K – 3,000K) are called warm colours (yellowish white through red).



The Planckian locus shows the chromaticities of black-body light sources of various colour temperatures and lines of constant correlated colour temperature shown within the CIE chromaticity diagram

# Technical information

## Dimmability

The Sylvania lamps range includes Dimmable LEDs lamps. Most conventional dimmers have been designed for incandescent lamps and are therefore rated for higher minimum loads (W) than LED lamps consume. There may therefore be some restrictions in terms of functionality of dimmers with individual LEDs – but when more than one lamp is used to increase the total loading, dimming becomes easier. For full list of dimmer compatibility, please consult your local salesforce.

## Downward Flux Fraction (DFF)

The factor of the total LOR, which is downward, taking the combined ULOR and DLOR as 100%. Using Cassini as an example, the DLOR is 37% and the ULOR is 15% so the combined is 52%. If this is taken as 100% LOR, 72% is downward (37% divided by 52%).

## Drivers

Electronic devices that transform the high mains voltage into a constant current lower voltage for operating the LEDs. A miniature electronic driver is contained inside the base of each Sylvania LED lamp.

## Glare

Discomfort glare is due to a high contrast between the source of light and the task. It is for that reason that luminance values are limited for certain tasks.

## Heat Sink

A device used to conduct heat away from the LED sources and dissipate it to the surrounding air. The more efficiently an LED is cooled the greater its efficacy, light output and lifetime. Materials having excellent thermal properties and optimised cooling fin geometries are engineered into Havells Sylvania lamps and luminaires to deliver the pinnacle of performance.

## Infrared (IR) Radiation

Comprises electromagnetic waves in the spectral range between visible light and microwaves, which produce a heating effect when absorbed by materials. All lamps and luminaires produce infrared radiation, but the quantity emitted by LEDs is far lower than other technologies and this makes them ideal for reducing air conditioning load, as well as for the illumination of heat-sensitive goods.

## Illuminance

This definition determines the amount of light that covers a surface. If Ø is the luminous flux and S is the area of the given surface then the illuminance E is determined by E=Ø/S. The unit of illumination in SI system is lx, and in foot-pound system it is foot-candle. One lx is the illuminance of 1 m² surface area uniformly lighted by 1 lm of luminous flux.

## Junction Temperature (Tj)

The temperature of the Junction of the LED die inside the LED lamp. Measuring the LED die temperature by direct mechanical means is difficult and may lead to erroneous results. It is recommended that the Tj is calculated with manufacturer's data through measurement of the temperature at the solder point (Tsp).

## LED (Light Emitting Diode)

The semiconductor in the LEDs we provide emits blue light. The colour of the light ultimately depends on the phosphors used on the surface of the LED or lens.

## Lens

An optical component having two refractive surfaces, at least one of which is either convex or concave. In LED lamps the function of a lens is to focus or disperse the light rays to achieve the desired beam angle or light distribution pattern.

## Lifetime

LED lamps can have extremely long lives, however their light output diminishes as they age. They can carry on working until they are emitting less than 10% of their initial light output, but with so little light left they would be practically useless. Sylvania defines the lifetime of its LED lamps the same way as for other lamps: i.e. the burning hours until the light output has decreased to 70% of the initial value, or when 50% of a group of lamps will have failed – whichever is the soonest. The International Electrotechnical Commission (IEC) is currently preparing an international standard based on similar threshold values.

## Visible light

Light Electromagnetic radiation with a wavelength between 380-780nm. Ultraviolet light has a wavelength of less than 380nm whilst infrared light's is greater than 720nm.

## Lighting level

A measure of light falling on a particular point or surface. This unit is measured in lux.

## Light output ratio (LOR)

The ratio of the luminaire light output to lamp light output. The efficiency of the luminaire.

## Lumen (lm)

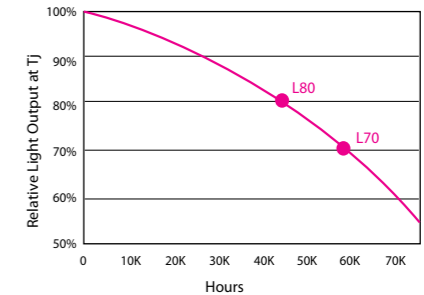
Unit of luminous flux used to describe a quantity of light emitted by a source.

## Lumen Maintenance

Rated Lumen Maintenance Life (Lxx): The elapsed operating time over which the LED light source will exceed the percentage, xx, of its initial light output.

- L80 = Time to 80% lumen maintenance, in hours
- L70 = Time to 70% lumen maintenance, in hours

For LED lamps and luminaires, lumen maintenance is often shown as curves of relative lumen output over time for the LED under various operating conditions, such as drive current and junction temperature.



## Luminance

The measure of brightness with which the eye perceives an illuminated surface from a certain direction. The luminous intensity per unit of visible surface of a light source (direct) or an illuminated surface (reflection). Luminance is indicated in candelas per square metre (cd/m²).

## Luminous efficacy (lm/W)

Indicates how efficiently a light source converts electrical energy to light.

## Luminous flux (lm)

The total light output of a light source measured in lumens.

## Luminous intensity (cd)

The power of a source or illuminated surface to emit light in a particular direction, measured in candelas.

## Lux (lux)

The unit of illuminance, equal to one lumen per square metre (lm/m²).



# Technical information

## Illuminance cone

This shows beam angle and illuminance figures at different heights.

## Polar curve

The graphic representation of the luminous intensity in different directions. If two curves are plotted, the distributions are in two vertical planes. They are absolute values.

## Recycling

Feilo Sylvania lamps and luminaires are extremely durable and do not contain any mercury, lead or other toxic metals. However because their drivers contain electronic components they must be disposed of as waste electrical and electronic equipment at the end of their life.

## Reflector

An optical component having a reflective surface (the surface could be specular or diffusing depending on the job it is required to do) surface, which captures light rays from the source and bounces them back at a particular angle. Although more commonly used in incandescent and halogen lamps, some Sylvania LED lamps use reflectors to control their light instead of a lens.

## Room index K

An index relating to the dimensions of a room influencing the amount of light emitted from the fitting onto the working surface.

$$K = \frac{a \times b}{h \times (a+b)}$$

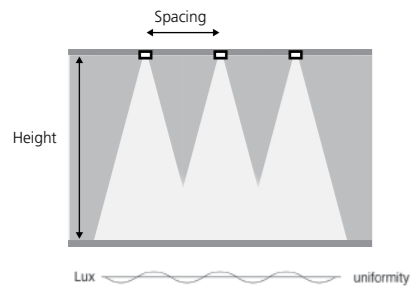
where: a = room length

b = room width

h = height between the luminaire and working surface

## Spacing to height ratio (SHR)

Used to determine the maximum distance between luminaires. The ratio of the distance between adjacent luminaires to the the distance between the luminaire plane and the horizontal working plane.



## Switching Cycles

LED lamps cannot be switched on and off indefinitely, but are rated to tolerate an impressive 60,000 switching cycles or more.

## TCO (Total Cost of Ownership)

TCO includes all the costs over the entire life of a lamp or for a particular operating time. It covers procurement costs, electricity consumption costs, relamping costs and may even incorporate a reduction in the necessary air conditioning load. LEDs are presently more expensive to purchase than lamps based on other technologies, but their minimal energy consumption results in rapid payback when replacing incandescent and halogen lamps.

## Transformer

A device for reducing the high mains voltage down to a lower voltage. A distinction is made between conventional (magnetic) transformers and electronic transformers.

## Uniformity ratio of illuminance

This indicates the degree of evenness of the light on the working surface and is shown as a ratio of the minimum to the mean lighting level on a surface. It becomes less even as the uniformity decreases. Typically you want 0.7 as a min for most schemes.

## Ultra Violet (UV) radiation

Comprises electromagnetic waves in the spectral range between visible light and X-rays, which are invisible to the human eye but essential for all life (delivered via natural sunlight). Small amounts of UV are emitted by many light sources (e.g. Halogen and Discharge) and over time will cause fading of coloured objects being illuminated.

Feilo Sylvania lamps and luminaires do not emit any UV radiation.

## Utilisation factor

The ratio of the light flux which the reference surface receives to the total luminous flux.

This is influenced by the shape of the room and selected luminaire and is expressed in the form of UF tables.

# Abbreviations

Abbreviations	Meaning
1	1 pack
1-10V	1-10V Analogue dimmable
3 hour emrg	3 hour emergency
3 PK	3 pack
10	10 pack
600	600 x 600mm
625	625 x 625mm
1200	1200 x 300mm
830	3,000K lamp
840	4,000K lamp
A2	
ALU	ALUminium
AS	ASymmetric optic
ASY	ASYmmetric
ASYM	ASYMmetric
BL	BLack
BR	BRIght optic
BRI	BRight
CG	Control Gear
CHR	CHRome
CON	CONnected
CW	Cool White
D	Analogue 1-10V Dimmable
DALI	Digital Adjustable Lighting Interface
DB	Dimmable Ballast
DB10	1-10V Analogue dimmable
DBDA	DALI Dimmable
DBLASYM	DouBle ASYMmetric
D/I	Direct / Indirect
DIFF	DIFFused light
DIR	DIRected light
DO	Double Optic
DR	Driver
DRVR	Driver
DSI	Digital Serial Interface
DS	Double Sided light output
E1	Emergency 1 hour
E3	Emergency 3 hour
EB	Electronic Ballast
ELECTR	ELECTRonic Ballast
EMG	EMerGency
EST	Electronic STarter
EX LMP	EXcluding LaMP
EXTGEAR	EXTernal GEAR tray
FTS	Fast Trunking System
GRY	GReY
GRY DIFF	GReY DIFFuser
GST	
HE	High Efficiency
HF	High Frequancy = Electronic ballast
HO	High Output
HQPS	High Quality PolyStyrene
HR	HR louvre
HRM / HRP	High Output internal reflector
HV	High Voltage
INS	INSaver
LIN	Linear
LLB	Low Loss Ballast = Magnetic balalst
LLB NC	Low Loss Ballast (= Magnetic ballast) Non Compensated
LLB PC	Low Loss Ballast (= Magnetic ballast) Parallel Compensated
LS	Light Source
Magn. El. Starter	Magnetic Electronic Starter
MECH CON	MECHanical CONNECTION
MEDI	MEDIum
MGR	Magnetic GeAR
M-LF	MicroLynx®-F lamp
MPM	

Abbreviations	Meaning
MW	MicroWave sensor
NARR	NARRow
(LLB) NC	(Low Loss Ballast = magnetic ballast) Non Compensated
No PFC	No Power Factor Correction
NW	Neutral White
PA	PA louvre
PARA	PARAbolic
(LLB) PC	(Low Loss Ballast = magnetic ballast) Parallel Compensated
PC	PolyCarbonate or Photo-Cell
PEND	PENDant
PHOTO	PHOTOcell
PL	PL louvre
Plus3	GST 18 Wieland plug
PSM	PriSMatic
PULLC	PULL Cord
PUSHB	PUSH Button
RAP.D	RAPid Double
RAPS	RAPid Single
REC	RECessed
REF	REFlector
REFL	REFlector
RGB	Red Green Blue
RPM	Tube with internal reflector
RU	RUst
S	Suspended
SA	SATin
SAT	SATin
SEMI-REC	SEMI-RECessed
SF	Surface Mounted
SHAVS	SHAVer Socket
SI	Silver
SS	Single Sided loight output
STE	brushed STEel
STRPL	STRIP Light
SURF	SURFace mounted
SUSP	SUSPension kit
SYM	SYMmetric
TLT	TLT

# Emergency Lighting

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 Feilo Sylvania emergency luminaires carry the CE mark. They are designed to conform to BS EN 60598-2-22 and are manufactured in accordance with the quality system BS EN ISO 9001 under certificate number FM01687
- Any emergency lighting luminaire conversion other than by Feilo Sylvania to a CE marked luminaire invalidates this CE marking and its associated legal protection

## Emergency Lighting Equipment

This comprises an inverter plus a set of batteries, which conform to BS EN 60598-2-22 and may be mounted:

- Integral within the luminaire (self contained – integral)
- Remote from, but within 1 metre of, the luminaire (self contained remote)

## Non-maintained Operation

In this mode of operation the emergency lighting lamps are not normally energized. An automatic monitoring and switching system is provided to switch on the emergency lighting if the normal supply is interrupted

## Maintained Operation

- A single lamp is used for both general and emergency modes
- In multi-lamp luminaires only one lamp will be used for the provision of emergency illumination
- Emergency lighting is provided for at least 3 hours (1 hour duration available to special order)

## Maintained Remote Emergency Gear

Downlights are almost all with remote emergency packs. Linear and ambient fittings are likely to have emergency gear within the fitting. Where the housing design precludes integral gear a remote control gear box is provided complete with connection cables.

## Product Combined Operation (also known as Sustained)

- Separate lamps provide general and emergency illumination
- Emergency lighting is provided for at least 3 hours. (1 hour duration available to special order)

## Self-testing

Automatic self-testing and monitoring of Feilo Sylvania luminaires is available to special order on a project basis.

## Central Battery

Feilo Sylvania luminaires for use with a central battery system are available to special order on a project basis

## System Design

This guide should be read in conjunction with current standards

## Legislation Changes & Requirements

The British Standard BS5266 has been revised to conform with the European Standard EN1838 (issued in the UK under reference BS EN1838/BS5266 Part 7) which specifies luminous requirements for emergency systems installed in premises. It also now calls up the luminaire product standard BS EN60598-2-22: 1999  
Emergency lighting is provided for use when the supply to the normal lighting fails and is therefore powered from a source independent of that supplying the normal lighting. For the purposes of this standard emergency lighting is regarded as a generic term of which there are a number of forms

## Definitions

### Emergency Exit

An exit which is intended to be used in an emergency.

### Escape Route

A route designated for escape in the event of an emergency

### Emergency Escape Lighting

That part of emergency lighting that provides illumination for the safety of people leaving a location or attempting to terminate a potentially dangerous process before doing so.

### Escape Route Lighting

That part of emergency escape lighting provided to ensure that the means of escape can be effectively identified and safely used when the location is occupied

### Open Area Lighting

In some countries this is known as anti-panic lighting. This relates to that part of emergency escape lighting provided to avoid panic and provide illumination, allowing people to reach a place where an escape route can be identified

### High Risk Task Area Lighting

That part of emergency escape lighting that provides illumination for the safety of people involved in a potentially dangerous process or situation and to enable proper shut down procedures for the safety of the operator and other occupants of the premises

## Areas Covered/Levels of Illumination

### Defined Escape Route

Based on 2m wide on the horizontal plane, preferably 1 lux but not less than 0.2 lux on the centre line. The lighting provided should operate within 5 seconds of the failure of the normal supply

### Open Area (Sometimes referred to as 'anti-panic' lighting)

Not less than 0.5 lux at floor level of the open space. The ratio of max to min illuminance should be greater than 40:1.

**These extracts are provided for guidance purposes. In order to fully comply with the many elements of the various applicable standards, a full and thorough assessment must be made**

# Luminaire Classifications

## Quality Registered

All lighting luminaires produced by Feilo Sylvania are designed, manufactured and tested under a quality assurance system in accordance with BS EN ISO 9001 under certificate number FM 01687. Also, the company also complies with the environmental management system, BS EN ISO14001 certificate number EMS39002.

## Compliance

The European Norm Electrical Certification (ENEC) has been adopted as a common mark of conformity with European Standards. A mark issued by any single national approbation body implies compliance with all seventeen international 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

The designated product(s) is (are) in conformity with the provisions of the following European Directives:

2014/20/EU & amendments	Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.
2014/30/EU & amendments	Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility
2009/125/EC & amendments	Directive of the European Parliament and of the Council of 21 October 2009 on the establishing a framework for the setting of ecodesign requirements for energy-related products.
2011/65/EU & amendments	Directive of the European Parliament and of the Council of 6 June 2011 on the restrictions of the use of certain hazardous substances in electrical and electronic equipment.
COMMISSION REGULATION (EU) 2019/2020 & amendments	Laying down ecodesign requirements for light sources and separate control gears (Single Lighting Regulation)

If the product incorporates radio equipment:

2014/53/EU	Directive of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC Text with EEA relevance.
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## UK

The designated product(s) is (are) in conformity with the provisions of the following UK Legislation:

The designated product(s) is (are) in conformity with the provisions of the following UK Legislation:

The Electrical Equipment (Safety) Regulations 2016

The Electromagnetic Compatibility Regulations 2016

The Ecodesign for Energy-Related Products Regulations 2011

2012 No.3032 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012


2021 No.1095 The Ecodesign for Energy-Related Products and Energy Information (Lighting Products) Regulations 2021


If the product incorporates radio equipment:


The Radio Equipment Regulations 2017

## Electrical protection

EN 60598

 Class I – Luminaire which relies on an earthed metal case to offer protection from live parts in case of failure.

 Class II – Luminaire which relies on two layers of insulation to offer protection from live parts in case of failure.

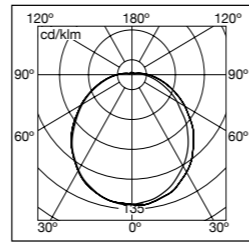
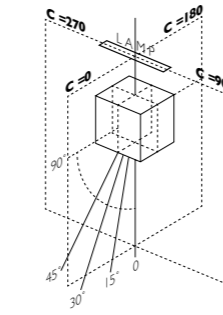
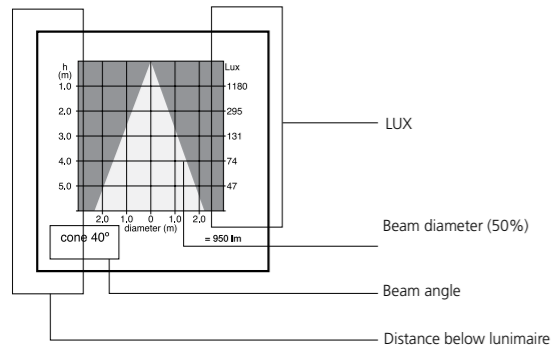
 Class III – Luminaire whose protection against electrical shock relies on supply at safely extra-low (SELV) and in which voltages higher than those of SELV are not generated

# Luminaire Classifications

## Photometric Data

### Illuminance cones

Cones are for single luminaires



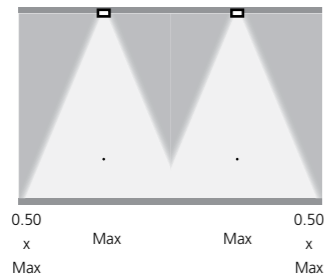
DLOR = Downward light output ratio  
ULOR = Upward light output ratio

The tables provided use luminaire Photometric data that has been measured and tested in accordance with British Standard EN13032-1 'Photometric Data for Luminaires'. Additional photometric data can be provided upon request. All data is also available in EULUMDAT and IES NA formats.

A 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.

Illuminance cones indicate beam spread, ie. a narrow, medium or broad beam of light. The illuminance values given (lux/klm) are the maximum values within the beam for horizontal planes at various distances below the luminaire. The beam diameter, ie. the approximate size of the light coverage, is also given. The cone widths are calculated for an illuminance at the edge of the cone of 50% of the maximum. By spacing luminaires at the beam diameter for the appropriate height, the combined effect of adjacent cones is to produce an acceptable uniformity along the centre lines between luminaires (figure 1).

figure 1



### 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 1,000 lumens.

**Note:** If the fitting has a conventional lamp as light source, that is true. If a fitting has an LED as a light source we will publish figures as candelas.

# IP & IK Ratings

## Ingress protection ratings (IP)

The resistive performance of fittings to solids and liquids is indicated by the IP (Ingress Protection) prefix followed by two numbers.

The first number indicates the measure of protection against the ingress of solids. For instance:

The second number indicates the measure of protection against the ingress of liquids. For instance:

### Ingress Protection (IP) Specification Guide

#### Protection against the ingress of solid objects IP.1X

#### Protection against the ingress of liquids IP.X1

IP No.	Example	Protection against contact and ingress of objects	Tests	Symbol	IP No.	Example	Protection against contact and ingress of water	Tests	Symbol
IP 1X		Protected against solid objects greater than 50mm ø	A large surface of the body, such as a hand (but no protection against deliberate access). Solid objects exceeding 50mm in diameter.		IP X1		Protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect	
IP 2X		Protected against solid objects greater than 12mm ø	Fingers or similar objects not exceeding 80 mm in length. Solid objects exceeding 12mm in diameter.		IP X2		Protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at any angle up to 15° from its normal position	
IP 3X		Protected against solid objects greater than 2.5mm ø	Tools, wires, etc., of diameter or thickness greater than 2.5mm. Solid objects exceeding 2.5mm in diameter.		IP X3		Protected against spraying water	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect	
IP 4X		Protected against solid objects greater than 1.0mm ø	Wires or strips of thickness greater than 1.0mm. Solid objects exceeding 1.0mm in diameter.		IP X4		Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effect	
IP 5X		Dust protected	Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.		IP X5		Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect	
IP 6X		Dust tight	No ingress of dust.		IP X6		Protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities	
					IP X7		Protected against the effects of immersion	Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time	
					IP X8		Protected against submersion	The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer.  NOTE Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.	



# IP & IK Ratings

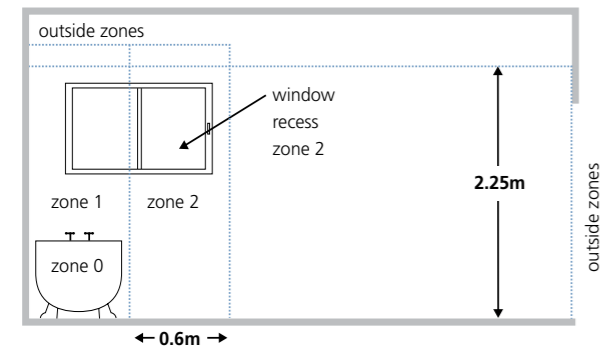
## IP ratings in damp areas

Application of IP ratings within damp locations

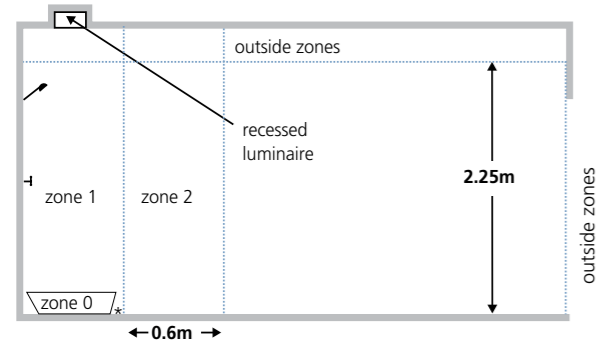
BS 7671: section 701 (18th Edition)

Guidance is 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.

a) bath tub

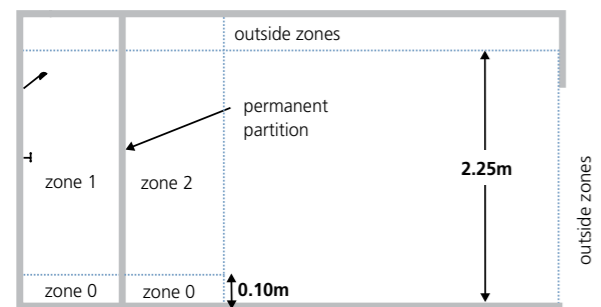


b) shower with basin



\*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.

c) shower without basin but with permanent fixed partition



## IK ratings

Degree of Impact Protection EN62262.

IK rating system is an International classification showing degrees of protection provided by luminaires against external mechanical impacts.

Number	Measure of protection – impact energy (Joules)	Test
IK 00	No protection to this standard -	
IK 01	0.15	0.20kg impact
IK 02	0.20	0.20kg impact
IK 03	0.35	0.20kg impact
IK 04	0.50	0.20kg impact
IK 05	0.70	0.20kg impact
IK 06	1.00	0.50kg impact from 200mm
IK 07	2.00	0.50kg impact from 400mm
IK 08	5.00	1.70kg impact from 295mm
IK 09	10.00	5.00kg impact from 200mm
IK 10	20.00	5.00kg impact from 400mm

When higher impact energy protection is required 50 Joules is recommended.

# Guide to symbols

## Electrical protection

EN60598

Class I – Luminaire which relies on an earthed metal case to offer protection from live parts in case of failure.

Class II – Luminaire which relies on two layers of insulation to offer protection from live parts in case of failure.

Class III – Luminaire whose protection against electrical shock relies on supply at safely extra-low (SELV) and in which voltages higher than those of SELV are not generated

Fittings made for mounting in or on furniture made of materials of unknown properties - Only applies to a German national standard for mounting luminaires on furniture.

Passes the 650° glow wire test in accordance with IEC 60695 series.

Horizontal rotation

Vertical tilt

Safety isolating transformer

Electronic transformer

Electronic ballast/gear

HID lamp requires an external ignitor

Ceiling cut-out – round

Ceiling cut-out – square

Trailing edge dimmable (capacitive)

Leading edge dimmable (inductive)

Ingress protection

Impact protection

Minimum distance in metres permitted from lighted object

European Norms Electrical Certification

Allowed lamp operating positions

Universal burning position

Horizontal burning position

Vertical burning position

Incandescent Candle and Ball: Base up not allowed

Lamp can be operated in luminaires without a protective shield

Lamp should be operated only in a luminaire provided with a protective shield

Lamp emits a high level of UV radiation

Reduced UV emissions

Cool beam reflector

Not dimmable

Protection against water contact

Internal ignitor

External ignitor

Ballast is required

Lamp should not be operated when the outer bulb is broken

Be aware of high temperatures when replacing lamp

Do not hold the lamp glass when installing or removing

Switch off power supply before replacing lamp

Do not touch lamp with bare fingers when replacing lamp

Energy saving

The equipment should not be disposed of in the normal waste stream.

Read instructions before use

Lamp complies with legal standards

Lamp complies with legal standards

German test lab and certifying body, VDE.

Grüne Punkt

Loop-in Loop-out / Luminaire can be looped

RoHS compliant

WEEE compliant

Warranty logo, please refer to intro pages for full details

Ball resistant luminaire

RAL is European colour matching system, we can offer variant colours on demand

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# Specifications

The following notes prepared to meet the company's obligations imposed by the Health & Safety at Work Act 1974 (as amended) 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, or can be found on the relevant pages of this catalogue.

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 qualified installer 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 change any specifications herein detailed, without prior notice. All descriptions, illustrations etc, in this publication shall not form part of any contract.

## Track and Spotlights

All track and spotlights are designed for normal, dry interiors, and are not recommended for use in damp or corrosive situations. Adequate ventilation will be necessary when tungsten spotlights are used in confined spaces where elevated temperatures will occur.

## 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

The majority of luminaires are fully prewired and with heat resistant cable wherever required.

## Weights

Where given, the weights of luminaires do not include lamps.

## Control Gear

Transformers and Control Gear are available for 240V 50HZ and 230V 50HZ with other options subject to special quotation.

240V 50HZ will be supplied unless any other voltage is requested at the time of ordering.

## Ceiling Cut-outs

Throughout this publication cut-out sizes refer to the aperture for the ceiling ring with recessed fittings when mounted in soft fibrous tiles. For timber or metal tiles and cast-in construction, check dimensions on site.

## Product colours and finishes

The Feilo Sylvania range of standard colours has been rationalised. This has given Feilo Sylvania the opportunity to harmonise its standard colours in line with developments that have taken place in architectural materials and building accessories.

For reference the standard paint finishes are now:

### Concord luminaire

RAL 9005 Jet Black

RAL 9006 White Aluminium

RAL 9010 Pure White

RAL 9016 Traffic White

### Sylvania Outdoor luminaires

RAL 9007 Grey aluminium

### LED Lamps

RAL 9023 Pearl dark grey

RAL 9016 Traffic White

Please note:

- Due to photography and the printing process the colours reproduced in this catalogue may not be truly representative.
- Though paint colours may be the same, gloss, matt, satin and textured finishes will appear different.

## 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.

## Terms and Conditions of Sale

For our latest T&Cs - please refer to our website:

<https://www.sylvania-lighting.com/en-gb/legal/ts-and-cs-of-sale/>

## Warranty Policy

For our latest warranty policy - please refer to our website:

<https://www.sylvania-lighting.com/en-gb/warranty/warranties/>