

SUPPLIERS



NEW PRODUCTS • DEVELOPPED BY OUR FACTORY / NOUVEAUX PRODUITS • DEVELOPPÉS

3W



43-GU10-3WD-01

15W



10-E27PAR38-15WD-01

7W



616-SDL-7W-01

6W / Ø 7.5CM



43-DL6MMWH48-R1X-01

10-200W



Floods T3 Series

10-200W



Floods T4 Series

120W



10-F120W-TK-60D-01

100-500W



Industrial Lamps

LED Lighting • Éclairage LED

[www.sun-groupe.com](http://www.sun-groupe.com)

Sun-Groupe Co Ltd / Sàrl • 2087 Cornaux • Switzerland

Representative of factories in Switzerland  
Représentant d'usines en Suisse

Large products choice  
Large choix de produits

Options adapted to each situation  
Options adaptées à chaque situation

OEM and custom manufacturing  
Fabrication sur Mesure

Certified products  
Produits certifiés

High quality (main objective)  
Haute qualité (objectif principal)

Categories / Catégories

- > LED Bulbs / Ampoules LED
- > LED Bars / Barres LED
- > LED Strip / Bandes LED
- > LED Accessories / Accessoires LED
- > LED Industrial Lighting / Eclairage Industriel LED
- > LED Public Lighting / Eclairage Public LED
- > LED Floods / Projecteurs LED
- > LED Tubes / Tubes LED
- > LED Panels / Panneaux LED
- > LED Spots / Spots LED
- > LED Growing Lamps / Lampes de Culture LED
- > LED Aquarium Lamps / Lampes d'Aquarium LED
- > LED Office Lamps / Lampes de Bureau LED
- > LED Traffic Lights / Feux de Circulation LED



• Datasheet on Demand / sur Demande



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**OUR COMPANY PROFILE**

Sun-Groupe Co Ltd is a trade and service company based in canton of Neuchâtel in Switzerland and in Puyang (Henan province) with an office in Beijing in the People's Republic of China.

The name of the company is Sun-Groupe, Sun for the name of the Chinese founders and Group(e) for holding type activities.

**IN CHINA SINCE 1992**

Sun-Groupe in China has a long experience in several sectors of activities : building construction, international trade (import&export) of goods and also digitisation services and in IT developments.

Under the name of Jianxing Zaojia, Sun-Groupe is the first engineer's design bureau of building's construction in Puyang city (3'651'700 inhabitants).

The combined Chinese forces of production and Swiss expertise in product's and services quality, empowers Sun-Groupe to satisfy the customers of various domains and sectors (public, industrial, corporate, administrative, associative and individuals).

**FROM CHINA, LED LIGHTING**

In 2007, Sun-Groupe China (Jianxing Zaojia) established contacts with LED lighting factories for home market as the company designing buildings.

Working together with a group of partner's factories producing the best quality of lighting, our company opened the international market in early 2009.

Switzerland is well known as one of the most difficult market, the customers are very demanding in term of quality and quality-price ratio. Sun-Groupe selects the best products and adapted to the customer's demands.

Our engineer's design bureau also develops new LED products.

**PROFILE D'ENTREPRISE**

Sun-Groupe Co Ltd est une société de commerce et de services basée dans le canton de Neuchâtel en Suisse et à Puyang (province du Henan) avec un bureau à Pékin dans la République de Chine.

Le nom de l'entreprise est Sun-Groupe, Sun du nom des fondateurs Chinois et Group(e) une entreprise d'activités de type holding.

**EN CHINE DEPUIS 1992**

Sun-Groupe en Chine a une longue expérience dans plusieurs secteurs d'activités : construction de bâtiments, commerce international (importation et exportation) de biens mais également services de numérisation et de développement informatique.

Sous le nom de Jianxing Zaojia, Sun-Groupe est le premier bureau de conception d'ingénieurs dans la construction de bâtiments à Puyang (3'651'700 habitants).

La combinaison des forces de production chinoises et de l'expertise suisse en matière de qualité des produits et des services permet à Sun-Groupe de satisfaire les clients de divers domaines et secteurs (public, industriel, entreprises, administrations, associations et particuliers).

**DEPUIS LA CHINE, LES LAMPES LED**

En 2007, Sun-Groupe Chine (Jianxing Zaojia) a établi des contacts avec l'éclairage LED usines pour le marché intérieur que la société conçoit des bâtiments.

En collaboration avec un groupe d'usines partenaires produisant la meilleure qualité d'éclairage, notre société a ouvert le marché international au début de 2009.

La Suisse est bien connue comme l'un des marchés les plus difficiles, les clients sont très exigeant en terme de qualité et de rapport qualité-prix.

Sun-Groupe sélectionne les meilleurs produits et s'adapte aux demandes des clients.

Notre bureau d'ingénierie développe également de nouveaux produits à LED.



## OUR COMPANY PROFILE

## PROFILE D'ENTREPRISE

## CERTIFICATIONS

Sun-Groupe is directly linked to the partners-factories and it is obvious that all our products have original certificates to enter the EU community

Switzerland recognize the CE certifications and some products, such as LED tubes have been especially homologated in Switzerland by our company.

## CERTIFICATIONS

Sun-Groupe est directement lié aux usines partenaires et il est évident que tous nos produits possèdent des certificats originaux pour entrer dans la communauté européenne.

La Suisse reconnaît les certifications CE et certains produits, tels que les tubes à LED, ont été spécialement homologués en Suisse par notre société.



## COPYRIGHT

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Violators will be prosecuted!

## COPYRIGHT

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Les contrevenants seront poursuivis!

**Advantages of our Company**

1. We are Swiss and Chinese, in Switzerland and in China !
2. Direct link with factories and NO intermediary.
3. Product's selection to answer Swiss people's demands.
4. Quantity discount, partnership possibility with resellers.
5. Custom manufacturing

**How to Order ?**

To order, simply contact us, either by the "Ask Offer" form, by email or by phone.

1. Choose the products and quantity you wish to order and contact us for a quote.
2. You can pay by bank transfer (the information about the payment you will receive during your command).

**Become a Partner**

Sun-Groupe acts as a manufacturer representative and LED factories. Better than an importer, Sun-Groupe is a logistics platform that caters to the source and optimizing costs, particularly in producing the request.

Our European stock is limited to demo samples and spare parts for warranty returns. The interest for us to work together, it is a fast and direct delivery to the end customer. In principle, it is the retailers to stock as requested by its customers.

The lead time is 1 to 3 weeks. By becoming an official partner or distributor of Sun-Groupe, you benefit among others: additional discount, free monitoring of technological evolution in real time, the Sun-Groupe experience in the LED for the Swiss market (one of the most regulated in the world), Sun-Group handles the transition from product certification testing by the authorities Swiss (ESTI), technical advice and case studies for your customers.

**Product's Stability**

Sun-Groupe offers a range of products with excellent and stable performance over several years, thus avoiding large changes in appearance of facilities, reduction of administrative burdens due to the many changes product catalogs, price lists and long-term tests.

As long as a product is regularly controlled, Sun Group will keep the original design. (under reserve of electronic modification, including LED).

**Les Avantages de notre Entreprise**

1. Nous sommes Suisses et Chinois, en Suisse et en Chine !
2. Lien direct avec les usines, AUCUN intermédiaire.
3. Sélection de produits pour les besoins suisses.
4. Rabais de quantité et partenariats avec revendeurs.
5. Fabrication sur mesure.

**Comment passer Commande ?**

Pour commander, il suffit de nous contacter, soit par le formulaire de "Demande Devis", par email ou par téléphone.

1. Choisissez les produits et quantités que vous souhaitez commander et contactez-nous pour un devis.
2. Vous pouvez payer par virement bancaire (les informations du paiements vous parviendront pendant votre commande).

**Devenez Partenaires**

Sun-Groupe agit en tant que représentant du fabricant et des usines de LED. Mieux qu'un importateur, Sun-Group est une plate-forme logistique qui se fournit directement à la source et en optimisant les coûts, notamment pour la production de m a n d e .

Notre stock européen est limité aux échantillons de démonstration et aux pièces de rechange pour les retours sous garantie. L'intérêt pour nous de travailler ensemble, il s'agit d'une livraison rapide et directe au client final. En principe, ce sont aux distributeurs de stocker pour répondre aux demandes de leurs les clients.

Le délai est de 1 à 3 semaines. En devenant partenaire ou distributeur officiel de Sun-Groupe, vous bénéficiez entre autres : réduction supplémentaires, suivi gratuit de l'évolution technologique en temps réel, de l'expérience de Sun-Groupe dans le domaine des LED pour le marché suisse (l'un des plus réglementés au monde), Sun-Groupe assure la transition des tests de certification de produits par les autorités suisses (ESTI), des conseils techniques et des études de cas pour votre entreprise. les clients.

**Stabilité des Produits**

Sun-Groupe propose une gamme de produits d'excellente qualité, des performances stables sur plusieurs années, évitant ainsi de grands changements d'aspect des installations, une réduction des charges administratives dues aux nombreux changements catalogues de produits, listes de prix et tests à long terme.

Tant qu'un produit est contrôlé régulièrement, Sun-Groupe conservera le design original. (sous réserve de modification électronique, y compris la LED).

## General Conditions and Remarks

### General Conditions

This catalog is subject to our terms of sale, which are available at:

<http://www.sun-groupe.com/conditions-generales.php>

Stay updated with the provisions through this link.

### Remarks

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The technical information and photos are not contractual, they are the most accurate according to manufacturer's data. Subject to modification of models and tint change.



## Conditions Générales et Remarques

### Conditions Générales

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<http://www.sun-groupe.com/conditions-generales.php>

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### Remarques

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Les informations techniques et les photos ne sont pas contractuelles, elles sont les plus précises selon les données du fabricant. Sous réserve de modification des modèles et de changement de teinte.



**E14**

	<b>3W</b>	100LM/W	3000K, 4500K, 6000K			
		E14,H12.5CM,P3W,100LM/W	A00500827		.01 3000K .02 4000K .03 6000K	
	<b>3W</b>	100LM/W	3000K, 4500K, 6000K			
		E14,H12.5CM,P3W,100LM/W	A00500828			.01 3000K .02 4000K .03 6000K
	<b>4W</b>	100LM/W	3000K, 4500K, 6000K			
		E14,H11.2CM,P4W,100LM/W	A00021192			

**E27**

**Globe Bulbs / Ampoules Globes**

	<b>4W</b>	100LM/W	3000K, 4500K, 6000K			
		E27,H11.5CM,P4W,100LM/W	A00500775		.01 3000K .02 4000K .03 6000K	
	<b>7W</b>	100LM/W	3000K, 4500K, 6000K			
		E27,H11.5CM,P7W,100LM/W	A00500776			.01 3000K .02 4000K .03 6000K
	<b>10W</b>	100LM/W	3000K, 4500K, 6000K			
		E27,H11.5CM,P10W,100LM/W	A00501614			



# SUN-GROUPE LED LED BULBS / AMPOULES LED

## GU10

**3W**

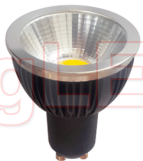
100LM/W

3000K, 4500K, 6000K / 60D

GU10,H6.4CM,P3W,100LM/W

A00431074

.01 3000K 60D  
.02 4000K 60D  
.03 6000K 60D



**5W**

100LM/W

3000K, 4500K, 6000K / 60D

GU10,H6.6CM,P5W,100LM/W

A00431076

.01 3000K 60D  
.02 4000K 60D  
.03 6000K 60D



**8W**

100LM/W

3000K, 4500K, 5000K / 35D

GU10,H7.95CM,P8W,100LM/W

A00021076

.01 3000K 35D  
.02 4500K 35D  
.03 5000K 35D



**9W**

100LM/W

3000K, 4500K, 5000K / 45D

GU10,H8.3CM,P9W,100LM/W

A00021189

.01 3000K 45D  
.02 4500K 45D  
.03 5000K 45D



**14W**

100LM/W

3000K, 4500K, 5000K / 35D

GU10,H8.4CM,P9W,100LM/W

A00021191

.01 3000K 35D  
.02 4500K 35D  
.03 5000K 35D



# SUN-GROUPE LED LED BULBS / AMPOULES LED

## MR16

**3W**

100LM/W

3000K, 4500K, 6000K / 60D

MR16,H5CM,P3W,100LM/W

A00431073

.01 3000K 60D  
.02 4000K 60D  
.03 6000K 60D



**5W**

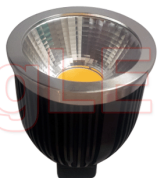
100LM/W

3000K, 4500K, 6000K / 60D

MR16,H6.6CM,P5W,100LM/W

A00431075

.01 3000K 60D  
.02 4000K 60D  
.03 6000K 60D



**5W**

100LM/W

3000K, 4500K, 6000K / 40D, 60D

MR16,H6.6CM,P5W,100LM/W

A00100283

.01 3000K 40D  
.02 3000K 60D  
.03 4000K 40D  
.04 4000K 60D  
.05 6000K 40D  
.06 6000K 60D



**6W**

100LM/W

3000K, 4500K, 6000K / 40D, 60D

MR16,H6.6CM,P6W,100LM/W

A00021188


.01 3000K 40D  
.02 3000K 60D  
.03 4000K 40D  
.04 4000K 60D  
.05 6000K 40D  
.06 6000K 60D






# SUN-GROUPE LED LED BARS / BARRES LED


## AC230V

	<b>40W</b>	100LM/W	3000K, 4000K, 6000K / Transparent, Opaque
		L126CM,P40W,100LM/W	A00061196


- .01 3000K Transparent
- .02 3000K Opaque
- .03 4000K Transparent
- .04 4000K Opaque
- .05 6000K Transparent
- .06 6000K Opaque

	<b>40W</b>	100LM/W	3000K, 4000K, 6000K / Transparent, Opaque
		L126CM,P40W,100LM/W EMERGENCY	A00061197


- .01 3000K Transparent
- .02 3000K Opaque
- .03 4000K Transparent
- .04 4000K Opaque
- .05 6000K Transparent
- .06 6000K Opaque

	<b>40W</b>	100LM/W	3000K, 4000K, 6000K / Transparent, Opaque
		L126CM,P40W,100LM/W SENSOR	A00061198


- .01 3000K Transparent
- .02 3000K Opaque
- .03 4000K Transparent
- .04 4000K Opaque
- .05 6000K Transparent
- .06 6000K Opaque

	<b>50W</b>	100LM/W	3000K, 4000K, 6000K / Transparent, Opaque
		L156CM,P50W,100LM/W	A00061199

- .01 3000K Transparent
- .02 3000K Opaque
- .03 4000K Transparent
- .04 4000K Opaque
- .05 6000K Transparent
- .06 6000K Opaque

	<b>50W</b>	100LM/W	3000K, 4000K, 6000K / Transparent, Opaque
		L156CM,P50W,100LM/W EMERGENCY	A00061200

- .01 3000K Transparent
- .02 3000K Opaque
- .03 4000K Transparent
- .04 4000K Opaque
- .05 6000K Transparent
- .06 6000K Opaque

	<b>50W</b>	100LM/W	3000K, 4000K, 6000K / Transparent, Opaque
		L156CM,P50W,100LM/W SENSOR	A00061201

- .01 3000K Transparent
- .02 3000K Opaque
- .03 4000K Transparent
- .04 4000K Opaque
- .05 6000K Transparent
- .06 6000K Opaque

## DC12V

### 5-18W



100LM/W	3000K, 6000K	
L30CM,P5W,DC12V	A00580817	.01 3000K .02 6000K
L50CM,P8W,DC12V	A00580818	
L60CM,P9W,DC12V	A00580819	
L100CM,P15W,DC12V	A00580820	
L120CM,P18W,DC12V	A00580821	

### 6-24W



100LM/W	3000K, 6000K	
L30CM,P6W,DC12V	A00580822	.01 3000K .02 6000K
L50CM,P10W,DC12V	A00580823	
L60CM,P12W,DC12V	A00580824	
L100CM,P20W,DC12V	A00580825	
L120CM,P24W,DC12V	A00580826	

### 6-24W



100LM/W	3000K, 6000K	
L30CM,P6W,DC12V	A00580812	.01 3000K .02 6000K
L50CM,P10W,DC12V	A00580813	
L60CM,P12W,DC12V	A00580814	
L100CM,P20W,DC12V	A00580815	
L120CM,P24W,DC12V	A00580816	

## DC24V

### 5-18W



100LM/W	3000K, 6000K	
L30CM,P5W,DC24V	A00581921	.01 3000K .02 6000K
L50CM,P8W,DC24V	A00581922	
L60CM,P9W,DC24V	A00581923	
L100CM,P15W,DC24V	A00581924	
L120CM,P18W,DC24V	A00581925	

### 6-24W



100LM/W	3000K, 6000K	
L30CM,P6W,DC24V	A00581926	.01 3000K .02 6000K
L50CM,P10W,DC24V	A00581927	
L60CM,P12W,DC24V	A00581928	
L100CM,P20W,DC24V	A00581929	
L120CM,P24W,DC24V	A00581930	

### 6-24W



100LM/W	3000K, 6000K	
L30CM,P6W,DC24V	A00581916	.01 3000K .02 6000K
L50CM,P10W,DC24V	A00581917	
L60CM,P12W,DC24V	A00581918	
L100CM,P20W,DC24V	A00581919	
L120CM,P24W,DC24V	A00581920	

## LED Strips / Bandes LED

### Single-Color / Mono-Couleur

#### 15W/m / SAMSUNG

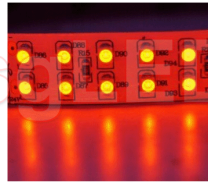
#### Constant Current



14-B563060123-15W-01  
14-B563060124-15W-01  
14-B563060126-15W-01

#### 22W/m / SAMSUNG

#### Constant Current



14-B5630126243-22W-01  
14-B5630126244-22W-01  
14-B5630126246-22W-01

### RGB

#### 15W/m

#### IP65-IP66-IP68



14-B5050601265RGB-15W-01  
14-B5050601267RGB-15W-01  
14-B5050601268RGB-15W-01

## LED Accessories / Accessoires LED

### CONTROLERS / CONTRÔLEURS

#### Radio / Remote

#### RGB + RGBW / 30m



75-REM-R-RGB-01  
75-REM-R-RGB-10CH-01  
75-REM-R-RGB-PROG-01  
75-REM-R-RGBW-PROG-01

#### Radio / Receiver



75-C-WIFI-RGB-5A-3CH-01

#### Radio / Receiver



#### CV + CC

75-C-WIFI-RGB-6A-3CH-01  
75-C-WIFI-RGB-48W-3CH-01  
75-C-WIFI-RGB-5A-4CH-01

#### Remote + Control

#### Remote + Control

#### Remote + Control

#### Remote + Control



75-PACK-DIM-CV-01

75-PACK-DIM-CV-CT-01

75-PACK-DIM-CV-RGB-01

75-PACK-DIM-CV-CCT-01

## Power Supplies / Alimentations

## 75W



P75W,DC12V,IP20,MW

A00251023

P75W,DC24V,IP20,MW

A00251029

## 100W



P100W,DC12V,IP20,MW

A00251024

P100W,DC24V,IP20,MW

A00251030

## 150W



P150W,DC12V,IP20,MW

A00251025

P150W,DC24V,IP20,MW

A00251031

## 200W



P200W,DC12V,IP20,MW

A00251026

P200W,DC24V,IP20,MW

A00251032

## 240W



P240W,DC12V,IP20,MW

A00251027

P240W,DC24V,IP20,MW

A00251033

## 320W



P320W,DC12V,IP20,MW

A00251028

P320W,DC24V,IP20,MW

A00251034

**Aluminium Profiles / Profils Aluminium**

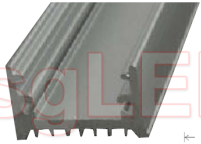
**1M**



1M / LE15 LI12 H7

A00140784

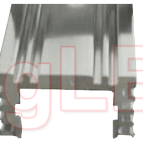
**1M**



1M / LE20 LI16 H12

A00140785

**1M**



1M / LE18 LI12 H12

A00140786

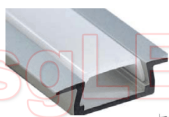
**1M**



1M / LE16 LI10 H9

A00140787

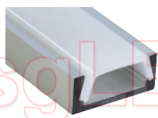
**1M**



1M / LE13 LI11 H7

A00140788

**1M**



1M / LE13 LI11 H12

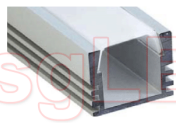
A00140789

## Aluminium Profiles / Profils Aluminium

1M

1M / LE13 LI11 H12

A00140790



1M

1M / LE18 LI12 H7

A00140791



1M

1M / LE17 LI11 H9

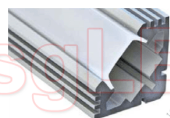
A00140792



1M

1M / LE19 LI12 45D

A00140793



# SUN-GROUPE LED LED INDUSTRIAL LIGHTING / ECLAIRAGE INDUSTRIEL

## LED Industrial Light / Lampe Industrielle LED

### 100-200W



130LM/W	2700K, 4000K, 6000K / 60D, 120D
P100W,130LM/W	A00021973 .01 2700K 60D .02 4000K 60D
P150W,130LM/W	A00021974 .03 6000K 60D .04 2700K 120D
P200W,130LM/W	A00021975 .05 4000K 120D .06 6000K 120D

### 60-250W



130LM/W	2700K, 4000K, 6000K / 60D, 120D
P60W,130LM/W	A00021976 .01 2700K 60D .02 4000K 60D
P80W,130LM/W	A00021977 .03 6000K 60D .04 2700K 120D
P100W,130LM/W	A00021978 .05 4000K 120D .06 6000K 120D
P150W,130LM/W	A00021979
P200W,130LM/W	A00021980
P250W,130LM/W	A00021981

### 150-500W



130LM/W	2700K, 4000K, 6000K / 25D, 90D
P150W,130LM/W	A00021982 .01 2700K 25D .02 4000K 25D
P200W,130LM/W	A00021983 .03 6000K 25D .04 2700K 90D
P300W,130LM/W	A00021984 .05 4000K 90D .06 6000K 90D
P400W,130LM/W	A00021985
P500W,130LM/W	A00021986

### 50-250W



130LM/W	2700K, 4000K, 6000K / 80X30D, 120X60D
P50W,130LM/W	A00021987 .01 2700K 80X30D .02 4000K 80X30D
P100W,130LM/W	A00021988 .03 6000K 80X30D .04 2700K 120X60D
P150W,130LM/W	A00021989 .05 4000K 120X60D .06 6000K 120X60D
P200W,130LM/W	A00021990
P250W,130LM/W	A00021991



## LED Street Lamps / Lampes de Rue LED

### 100-200W



130LM/W

2700K, 4000K, 6000K / 60D, 120D

P100W,130LM/W

A00021973

.01 2700K 60D

P150W,130LM/W

A00021974

.02 4000K 60D

P200W,130LM/W

A00021975

.03 6000K 60D

.04 2700K 120D

.05 4000K 120D

.06 6000K 120D

### 60-250W



130LM/W

2700K, 4000K, 6000K / 60D, 120D

P60W,130LM/W

A00021976

.01 2700K 60D

P80W,130LM/W

A00021977

.02 4000K 60D

P100W,130LM/W

A00021978

.03 6000K 60D

P150W,130LM/W

A00021979

.04 2700K 120D

P200W,130LM/W

A00021980

.05 4000K 120D

P250W,130LM/W

A00021981

.06 6000K 120D

### 150-500W



130LM/W

2700K, 4000K, 6000K / 25D, 90D

P150W,130LM/W

A00021982

.01 2700K 25D

P200W,130LM/W

A00021983

.02 4000K 25D

P300W,130LM/W

A00021984

.03 6000K 25D

P400W,130LM/W

A00021985

.04 2700K 90D

P500W,130LM/W

A00021986

.05 4000K 90D

.06 6000K 90D

### 50-250W



130LM/W

2700K, 4000K, 6000K / 80X30D, 120X60D

P50W,130LM/W

A00021987

.01 2700K 80X30D

P100W,130LM/W

A00021988

.02 4000K 80X30D

P150W,130LM/W

A00021989

.03 6000K 80X30D

P200W,130LM/W

A00021990

.04 2700K 120X60D

P250W,130LM/W

A00021991

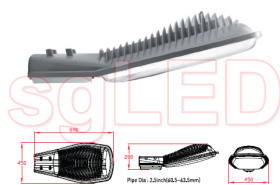
.05 4000K 120X60D

.06 6000K 120X60D



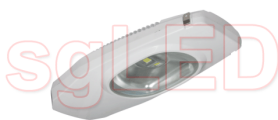
**LED Street Lamps**

**58-120W**



10-SLT450-58W-01  
10-SLT500-120W-01

**50-100W**



02-SLT100-50W-01  
02-SLT100-60W-01  
02-SLT100-70W-01  
02-SLT100-80W-01  
02-SLT100-90W-01  
02-SLT100-100W-01

**50-100W**



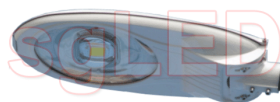
02-SLT125-80W-01  
02-SLT125-100W-01

**120-150W**



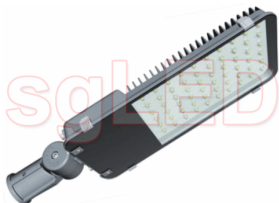
02-SLT150-120W-01  
02-SLT150-150W-01

**30W**



02-SLT162-30W-01

**60W**



02-SLT294-60W-01

**58W**



10-SLT680-58W-01



**30-90W**



74-SL-T2741-30W-01  
74-SL-T2741-60W-01  
74-SL-T2741-90W-01

**30-90W**



74-SL-T2741-30W-01  
74-SL-T2741-60W-01  
74-SL-T2741-90W-01



**30-90W**



74-SL-T2742-30W-01  
74-SL-T2742-60W-01  
74-SL-T2742-90W-01

**30-90W**



74-SL-T2222-30W-01  
74-SL-T2222-60W-01  
74-SL-T2222-90W-01

**30-90W**



74-SL-T2370-30W-01  
74-SL-T2370-45W-01  
74-SL-T2370-60W-01  
74-SL-T2370-90W-01

**30-90W / Détecteur**



74-SL-T2370-30WS-01  
74-SL-T2370-40WS-01  
74-SL-T2370-60WS-01  
74-SL-T2370-90WS-01



**LED Street Lamps**

**30-90W**



74-SL-T25181-30W-01  
74-SL-T25181-60W-01  
74-SL-T25181-90W-01

**30-90W**



74-SL-T25182-30W-01  
74-SL-T25182-60W-01  
74-SL-T25182-90W-01

**LED Garden Lamps**

**10W / 40-80CM**



74-LL7413H40-10W-01  
74-LL7413H60-10W-01  
74-LL7413H80-10W-01

**10W / 40-80CM**



74-LL7423H40-10W-01  
74-LL7423H60-10W-01  
74-LL7423H80-10W-01



**10W / 40-80CM**



74-LL7433H40-10W-01  
74-LL7433H60-10W-01  
74-LL7433H80-10W-01

**10W / 40-80CM**



74-LL7443H40-10W-01  
74-LL7443H60-10W-01  
74-LL7443H80-10W-01

**12W / 40-80CM**



74-LL7454H40-12W-01  
74-LL7454H60-12W-01  
74-LL7454H80-12W-01

**10W / 40-80CM**



74-LL7461H40-10W-01  
74-LL7461H60-10W-01  
74-LL7461H60-10W-01

**20W / 40-80CM**



74-LL7462H40-20W-01  
74-LL7462H60-20W-01  
74-LL7462H60-20W-01

**LED Tunnel Lamps / Lampes de Tunnel LED**

**50-250W**



130LM/W	2700K, 4000K, 6000K / 60X90D, 150X80D	
P50W,130LM/W	A00021992	.01 2700K 60X90D .02 4000K 60X90D
P100W,130LM/W	A00021993	.03 6000K 60X90D .04 2700K 150X80D
P150W,130LM/W	A00021994	.05 4000K 150X80D .06 6000K 150X80D
P200W,130LM/W	A00021995	
P250W,130LM/W	A00021996	



## LED Tunnel Lamps / Lampes de Tunnel LED

50-80W



02-TL37-50W-01  
02-TL37-60W-01  
02-TL37-70W-01  
02-TL37-80W-01

100-160W



02-TL57-100W-01  
02-TL57-120W-01  
02-TL57-140W-01  
02-TL57-160W-01

58W



74-TF-58W-01

83W



74-TF-83W-01

123W

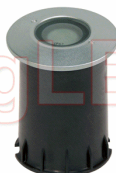


74-TF-123W-01



## LED Spot Lamps

4W / Ø 6CM



74-IGL1-4W-01

4W / Ø 9CM



74-IGL3-4W-01

12W / Ø 18CM



74-IGT1L9-12W-01  
74-IGT1L12-15W-01



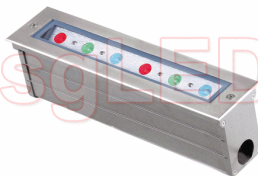
**LED Inground Bars**

**4W**



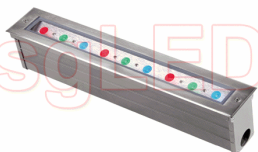
74-GB3L3-4W-01  
74-GB3L3RGB-4W-01

**9W**



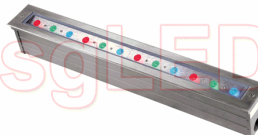
74-GB3L6-9W-01  
74-GB3L6RGB-9W-01

**12W**



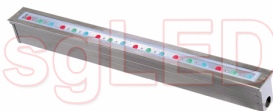
74-GB3L9-12W-01  
74-GB3L9RGB-12W-01

**17W**

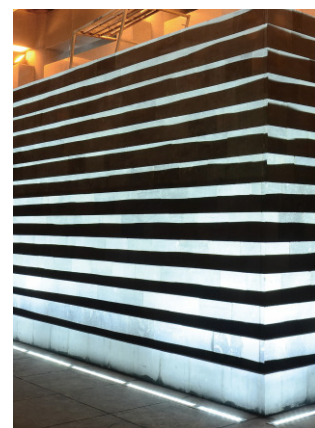


74-GB3L12-17W-01  
74-GB3L12RGB-17W-01

**25W**



74-GB3L18-25W-01  
74-GB3L18RGB-25W-01



**LED Subwater Lamps**

**3W**



74-UWF-3W-01  
74-UWFRGB-3W-01

**7W**



74-UWF-7W-01  
74-UWFRGB-7W-01



**10W**



74-UWF-10W-01  
74-UWFRGB-10W-01

**12W**



74-UWF-12W-01  
74-UWFRGB-12W-01



**18W**



74-UWF-18W-01  
74-UWFRGB-18W-01



**36W**





74-UWF-36W-01  
74-UWFRGB-36W-01

# SUN-GROUPE LED LED FLOODS / PROJECTEURS LED



## LED Wallwashers / Projecteurs Muraux LED

 	<b>12W</b>	100LM/W	3000K, 4000K, 6000K / 15D, 25D, 45D
		L43CM,P12W	A00020242
		L43CM,P12W,RGB	A00020060

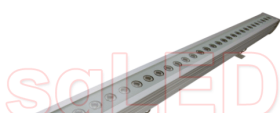

- .01 3000K 15D
- .02 4500K 15D
- .03 6000K 15D
- .04 3000K 25D
- .05 4500K 25D
- .06 6000K 25D
- .07 3000K 45D
- .08 4500K 45D
- .09 6000K 45D

 	<b>15W</b>	100LM/W	3000K, 4000K, 6000K / 15D, 25D, 45D
		L53CM,P15W	A00020265
		L53CM,P15W,RGB	A00020587

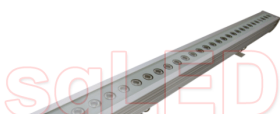

- .01 3000K 15D
- .02 4500K 15D
- .03 6000K 15D
- .04 3000K 25D
- .05 4500K 25D
- .06 6000K 25D
- .07 3000K 45D
- .08 4500K 45D
- .09 6000K 45D

 	<b>24W</b>	100LM/W	3000K, 4000K, 6000K / 15D, 25D, 45D
		L83CM,P24W	A00020280
		L83CM,P24W,RGB	A00020588

- .01 3000K 15D
- .02 4500K 15D
- .03 6000K 15D
- .04 3000K 25D
- .05 4500K 25D
- .06 6000K 25D
- .07 3000K 45D
- .08 4500K 45D
- .09 6000K 45D

 	<b>30W</b>	100LM/W	3000K, 4000K, 6000K / 15D, 25D, 45D
		L104CM,P30W	A00020281
		L104CM,P30W,RGB	A00020589

- .01 3000K 15D
- .02 4500K 15D
- .03 6000K 15D
- .04 3000K 25D
- .05 4500K 25D
- .06 6000K 25D
- .07 3000K 45D
- .08 4500K 45D
- .09 6000K 45D

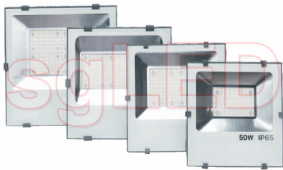
 	<b>36W</b>	100LM/W	3000K, 4000K, 6000K / 15D, 25D, 45D
		L124CM,P36W	A00020059
		L124CM,P36W,RGB	A00020058

- .01 3000K 15D
- .02 4500K 15D
- .03 6000K 15D
- .04 3000K 25D
- .05 4500K 25D
- .06 6000K 25D
- .07 3000K 45D
- .08 4500K 45D
- .09 6000K 45D

# SUN-GROUPE LED LED FLOODS / PROJECTEURS LED

## LED Floods Standards / LED Standard Floods

### 50-200W



120LM/W

T14,MW,50W,120LM/W

T14,MW,100W,120LM/W

T14,MW,150W,120LM/W

T14,MW,200W,120LM/W

2700K, 4500K, 6000K / 60D, 120D

A00022006

A00022007

A00022008

A00022009

.01 2700K 60D  
.02 4500K 60D  
.03 6000K 60D  
.04 2700K 120D  
.05 4500K 120D  
.06 6000K 120D

### 10-200W



130LM/W

T08,MW,10W,130LM/W

T08,MW,20W,130LM/W

T08,MW,30W,130LM/W

T08,MW,50W,130LM/W

T08,MW,80W,130LM/W

T08,MW,100W,130LM/W

T08,MW,150W,130LM/W

T08,MW,200W,130LM/W

2700K, 4500K, 6000K / 60D, 120D

A00022010

A00022011

A00022012

A00022013

A00022014

A00022015

A00022016

A00022017

.01 2700K 60D  
.02 4500K 60D  
.03 6000K 60D  
.04 2700K 120D  
.05 4500K 120D  
.06 6000K 120D

GARAGE TOURING



SBB Station Neuchâtel



# SUN-GROUPE LED LED FLOODS / PROJECTEURS LED

## LED Floods High Power / Projecteurs LED Haute Puissance

### 400W

130LM/W

2700K, 4500K, 6000K / 45D, 120D

T12,MW,400W,130LM/W

A00021997

- .01 2700K 45D
- .02 4500K 45D
- .03 6000K 45D
- .04 2700K 120D
- .05 4500K 120D
- .06 6000K 120D



### 800W

130LM/W

2700K, 4500K, 6000K / 45D, 120D

T12,MW,800W,130LM/W

A00021998

- .01 2700K 45D
- .02 4500K 45D
- .03 6000K 45D
- .04 2700K 120D
- .05 4500K 120D
- .06 6000K 120D



### 1000W

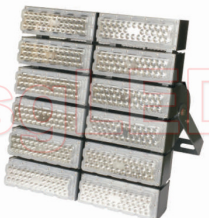
130LM/W

2700K, 4500K, 6000K / 45D, 120D

T12,MW,1000W,130LM/W

A00021999

- .01 2700K 45D
- .02 4500K 45D
- .03 6000K 45D
- .04 2700K 120D
- .05 4500K 120D
- .06 6000K 120D





## LED Floods

### 250W

130LM/W

2700K, 4500K, 6000K / 45D, 120D

T13,MW,250W,130LM/W

A00022000

- .01 2700K 45D
- .02 4500K 45D
- .03 6000K 45D
- .04 2700K 120D
- .05 4500K 120D
- .06 6000K 120D



### 600W

130LM/W

2700K, 4500K, 6000K / 30D, 60D

T13,MW,600W,130LM/W

A00022001

- .01 2700K 30D
- .02 4500K 30D
- .03 6000K 30D
- .04 2700K 60D
- .05 4500K 60D
- .06 6000K 60D



### 720-1440W

140LM/W

2700K, 4500K, 6000K / 60D, 110D

T14,MW,720W,140LM/W

A00022002

T14,MW,960W,140LM/W

A00022003

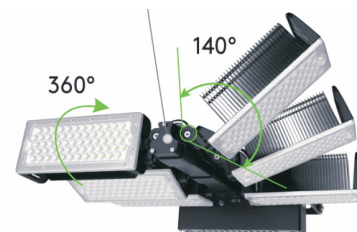
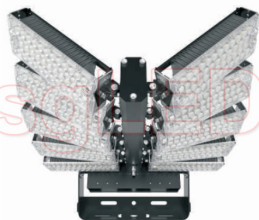
T14,MW,1200W,140LM/W

A00022004

T14,MW,1440W,140LM/W

A00022005

- .01 2700K 60D
- .02 4500K 60D
- .03 6000K 60D
- .04 2700K 110D
- .05 4500K 110D
- .06 6000K 110D



## LED Gas Station / Lampes de Station Services LED

### 100-150W



130LM/W

2700K, 4500K, 6000K / 120D

SENSOR,100W,130LM/W

A00022018

.01 2700K 120D

SENSOR,120W,130LM/W

A00022019

.02 4500K 120D

SENSOR,150W,130LM/W

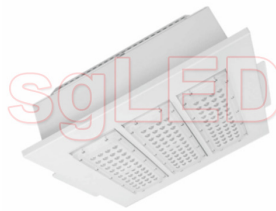
A00022024

.03 6000K 120D



**Sensor**

### 50-200W



130LM/W

3000K, 4500K, 6000K / 60X120D, 80X150D

50W,130LM/W

A00022021

.01 3000K 60X120D

100W,130LM/W

A00022022

.02 4500K 60X120D

150W,130LM/W

A00022024

.03 6000K 60X120D

200W,130LM/W

A00022024

.04 3000K 80X150D

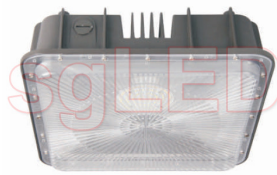
.05 4500K 80X150D

.06 6000K 80X150D



## LED Canopy Light / Verrière LED

### 50-120W



130LM/W

2700K, 4500K, 6000K / 160D

50W, 130LM/W

A00022025

.01 2700K 160D

70W, 130LM/W

A00022026

.02 4500K 160D

100W, 130LM/W

A00022027

.03 6000K 160D

120W, 130LM/W

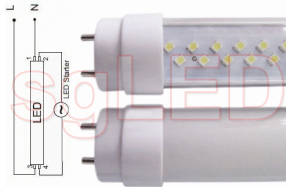
A00022028



# SUN-GROUPE LED LED TUBES / TUBES LED

## T8

### 7-22W



			3000K, 4000K, 6000K / Frost, Transparent	
L43CM, P7W	06-T843-7W-01	A00061035	.01 3000K Transparent	
L60CM, P9W	06-T860-9W-01	A00061008	.02 4000K Transparent	
L90CM, P14W	06-T890-14W-01	A00061007	.03 6000K Transparent	
L120CM, P18W	06-T8120-18W-01	A00061000	.04 3000K Opaque	
L150CM, P22W	06-T8150-22W-01	A00061006	.05 4000K Opaque	
			.06 6000K Opaque	

## Brackets Supports for LED Tubes / Armatures pour Tubes LED

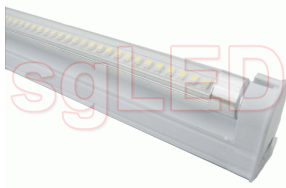
### L60-150CM



L60CM, T8	06-SUPPORTT860-01	A00060423	
L120CM, T8	06-SUPPORTT8120-01	A00060424	
L150CM, T8	06-SUPPORTT8150-01	A00060425	

## T5

### 4-14W



			3000K, 4000K, 6000K	
L28CM, P4W	06-T528-4W-01	A00060096	.01 3000K	
L55CM, P7W	06-T555-7W-01	A00060097	.02 4000K	
L58CM, P11W	06-T585-11W-01	A00060098	.03 6000K	
L120CM, P14W	06-T5120-14W-01	A00060099		



**SUN-GROUPE****LED****LED PANELS / PANNEAUX LED****30x30cm****10-20W**

80LM/W

3000K, 4000K, 6000K

P10W, 295x295MM

A00021965

.01 3000K

P20W, 295x295MM

A00021966

.02 4000K

.03 6000K

**60x30cm****20W**

80LM/W

3000K, 4000K, 6000K

P20W, 595x295MM

A00021967

.01 3000K

.02 4000K

.03 6000K

**60x60cm****40-45W**

90-110LM/W

3000K, 4000K, 6000K

P40W, 595x595MM, 90LM/W

A00021968

.01 3000K

P45W, 595x595MM, 110LM/W

A00021969

.02 4000K

.03 6000K



# SUN-GROUPE LED LED PANELS / PANNEAUX LED

62x62cm

<b>45W</b>	90-110LM/W	3000K, 4000K, 6000K	
	P45W, 620X620MM, 110LM/W	A00021970	.01 3000K .02 4000K .03 6000K



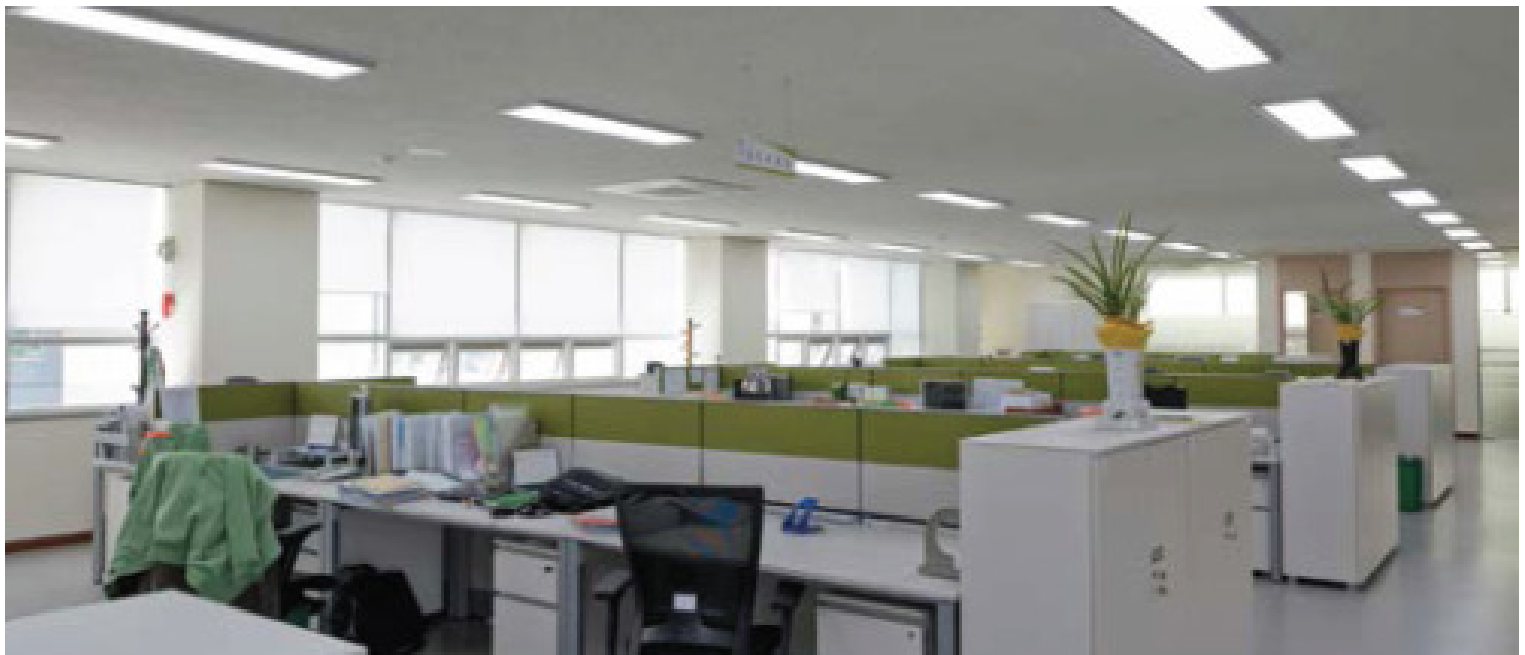
120x30cm

<b>45W</b>	110LM/W	3000K, 4000K, 6000K	
	P45W, 1195X295MM, 110LM/W	A00021971	.01 3000K .02 4000K .03 6000K



120x60cm

<b>60W</b>	100LM/W	3000K, 4000K, 6000K	
	P60W, 120X60CM, 100LM/W	A00021972	.01 3000K .02 4000K .03 6000K



# SUN-GROUPE LED LED SPOTS

## LED Ceiling Spots / LED Surface Spots

30-40W



03-SURFACE-T1-30W-01  
03-SURFACE-T1-40W-01  
03-SURFACE-T2-30W-01  
03-SURFACE-T2-40W-01

## LED Spots Kits

7W



616-SDL-7W-01



## LED Downlights

### Circular Spots

8W / Ø 7.5CM



10-DL8W-01

10W / Ø 10CM



70° / 100°

10-DL10W-01

14W / Ø 13CM



70° / 100°

10-DL14W-01

17W / Ø15CM



70° / 100°

10-DL17W-01

45W / Ø20CM



120°

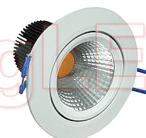
10-DL45W-01

6W / Ø 7.5CM



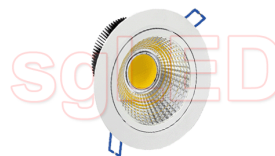
43-DL6WMMWH48-R1X-01

6W / Ø 7.5CM



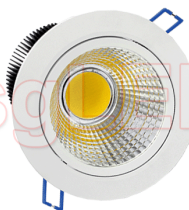
43-DL6WD-R1X-01  
43-DL6WMMW-R1X-01

10W / Ø 9.5CM



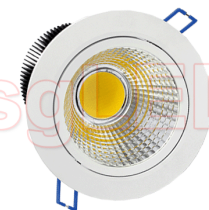
43-DL10WD-R1X-01  
43-DL10WMMWD-R1X-01

15W / Ø 12CM



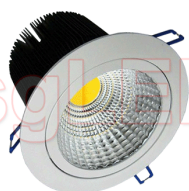
43-DL15WD-R1X-01  
43-DL15WMMWD-R1X-01

20W / Ø 12CM



43-DL20WD-R1X-01  
43-DL20WMMWD-R1X-01

30W / Ø 14CM



43-DL30WMMWD-R1X-01

# SUN-GROUPE LED SPOTS

## LED Downlights

### 10W / Ø 14CM



43-DLG10WD-R1X-01  
43-DLG10WMWD-R1X-01

### 20W / Ø 17.5CM



43-DLG20WD-R1X-01  
43-DLG20WMWD-R1X-01

### 15W / Ø 14CM



43-DLG15WD-R1X-01  
43-DLG15WMWD-R1X-01

### 30W / Ø 17.5CM



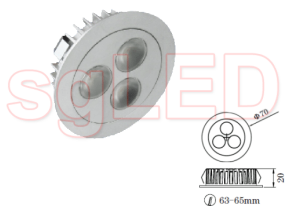
43-DLG30WD-R1X-01  
43-DLG30WD-R1X-02

### 3W / Ø 3.6CM



03-SDL1041L-1X3W-01

### 5W / Ø 6.3CM



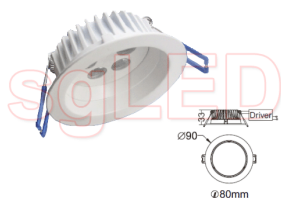
03-SDL209L3-5W-01  
03-SDL209L4-5W-01  
03-SDL209L6-5W-01

### 9W / Ø 6.5CM



03-SDL699D-9W-01

### 6W / Ø 8CM



03-SDL2262L-6W-01

### 7W / Ø 8CM



03-SDL2261L-7W-80D-01

### 8W / Ø 9.5CM



03-SDL2252L-8W-01

### 9W / Ø 8CM



03-SDL67803D-9W-01

### 10W / 9.5CM



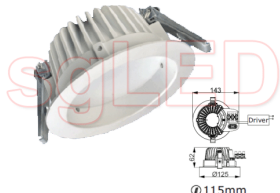
03-SDL2251L-10W-80D-01

### 23W / Ø 8CM



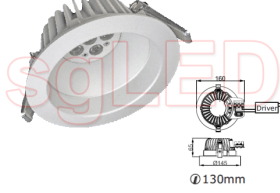
03-SDL67815D-11W-01

### 23W / Ø 11.5CM



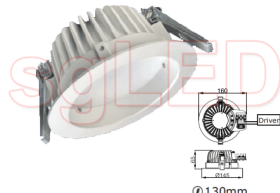
03-SDL2202N8W-01

### 23W / Ø 13CM



03-SDL2214N10W-01

### 23W / Ø 13CM



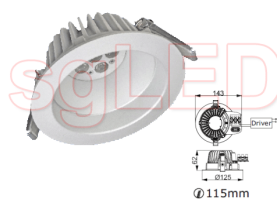
03-SDL2212N10W-01



# SUN-GROUPE LED SPOTS

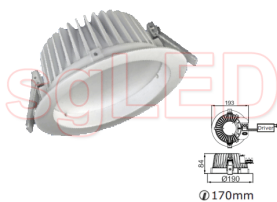
## LED Downlights

8W / Ø 11.5CM



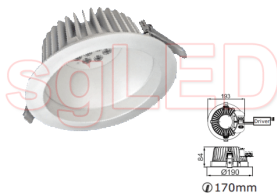
03-SDL2204N8W-01

16W / Ø 17CM



03-SDL2222N16W-01

16W / Ø 17CM



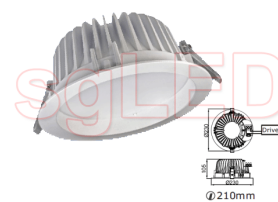
03-SDL2224N16W-01

23W / Ø 21CM



03-SDL2234N23W-01

23W / Ø 21CM



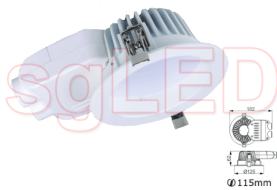
03-SDL2232N23W-01

8W / Ø 11.5CM



03-SDL2203D8W-01

8W / Ø 11.5CM



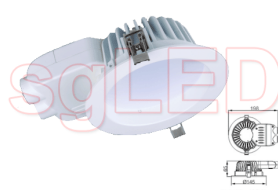
03-SDL2201D8W-01

10W / Ø 13CM



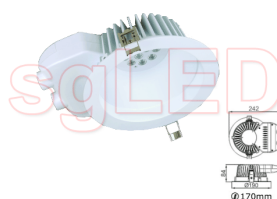
03-SDL2213D10W-01

10W / Ø 13CM



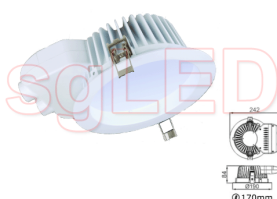
03-SDL2211D10W-01

16W / Ø 17CM



03-SDL2223D16W-01

16W / Ø 17CM



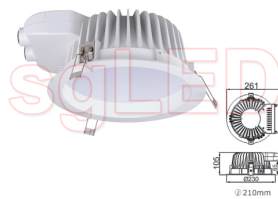
03-SDL2221D16W-01

23W / Ø 21CM

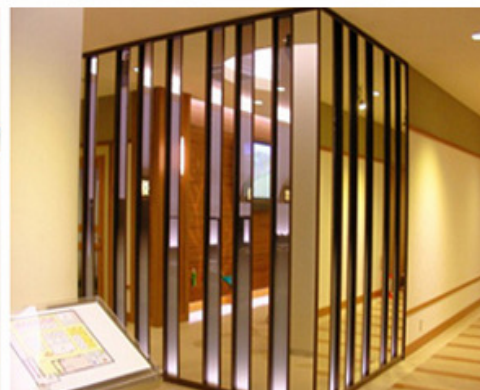


03-SDL2233D23W-01

23W / Ø 21CM



03-SDL2231D23W-01



# SUN-GROUPE LED SPOTS

## LED Downlights

15W / Ø 15CM



03-SDL1155R2D-15W-01

15W / Ø 15CM



03-SDL1155RJ2D-15W-01

19W / Ø 15CM



03-SDL1155RJD-19W-01

19W / Ø 15CM



03-SDL1155RD-19W-01

20W / Ø 17CM



03-SDL1158R2-20W-01

20W / Ø 17CM



03-SDL1158RJ2-20W-01

23W / Ø 17CM



03-SDL1158RJD-23W-01

23W / Ø 17CM



03-SDL1158RD-23W-01

29W / Ø 20CM



03-SDL1164RD-29W-01

29W / Ø 20CM



03-SDL1164RJD-29W-01

30W / Ø 20CM



03-SDL1164R2D-30W-01

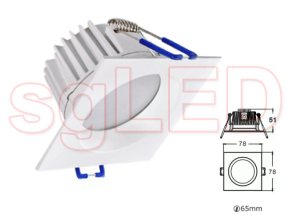
30W / Ø 20CM



03-SDL1164RJ2D-30W-01

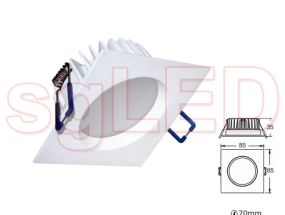
## Square Spots

9W / Ø 6.5CM



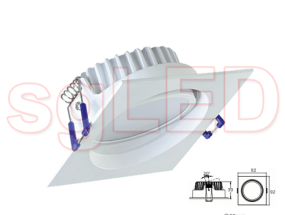
03-SDL702D-9W-01

9W / Ø 7CM



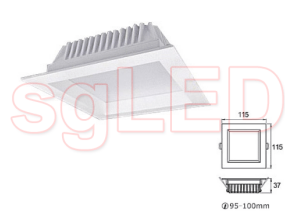
03-SDL714D-9W-01

11W / Ø 8CM



03-SDL67818D-11W-01

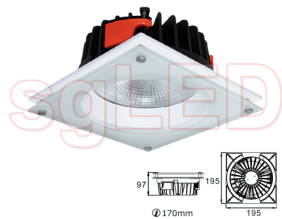
12W+ / Ø 9.5X9.5CM



03-SDL355L-12W-90D-01  
 03-SDL355LD-12W-90D-01  
 03-SDL356L-16W-90D-01  
 03-SDL356LD-16W-90D-01  
 03-SDL357L-20W-90D-01  
 03-SDL357LD-20W-90D-01  
 03-SDL358LD-20W-90D-01  
 03-SDL358L-25W-90D-01

## LED Downlights

**20W / Ø 17CM**



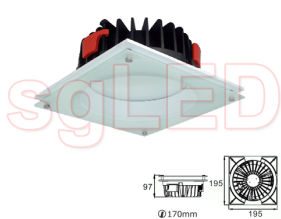
03-SDL1158SJ2-20W-01

**20W / Ø 17CM**



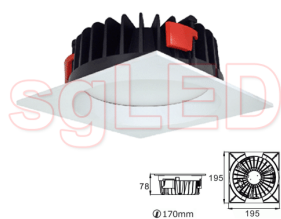
03-SDL1158S2-20W-01

**23W / Ø 17CM**



03-SDL1158SJD-23W-01

**23W / Ø 17CM**



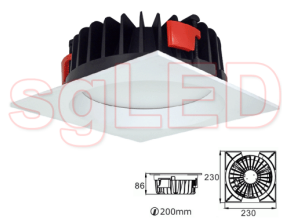
03-SDL1158SD-23W-01

**29W / Ø 20CM**



03-SDL1164SJD-29W-01

**29W / Ø 20CM**



03-SDL1164SD-29W-01

**30W / Ø 20CM**



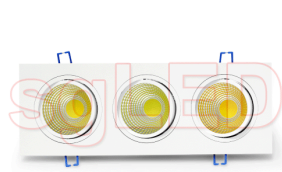
03-SDL1164S2D-30W-01

**30W / Ø 20CM**



03-SDL1164SJ2D-30W-01

**18W / Ø 7.5X23.5CM**



43-DL18MMWSQ-R1X-02

**40W / Ø22.3X12.3CM**



02-DL40WSQ-01

## LED Spots Tracklights

### 10W / 4 PINS



43-TL10WMWD1P4-01

### 20W / 4 PINS



43-TL20WMWD1P4-0

### 20W / 4 PINS



43-TL20WMWD2P4-01

### 30W / 4 PINS



43-TL30WMW1P4-01

### 40W / 4 PINS



43-TL40WMWD2P4-01

### 60W / 4 PINS



43-TL60WMW2P4-01

### 30-40W / 4 PINS



03-TLSP0033-30W-01  
03-TLSP0036-30W-01  
03-TLSP0033-40W-01  
03-TLSP0036-40W-01

### 30-40W / 4 PINS



03-TLSP006-30W-01  
03-TLSP006-40W-01

### 30-40W / 4 PINS



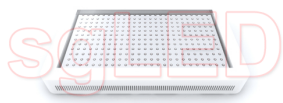
03-TLSP009-15W-01



# SUN-GROUPE LED LED GROW LIGHTS / AQUARIUM / LED OFFICE LAMPS

## LED Grow Lights

300W



31-GW300W-01



160W



31-GS-160W-MW-01

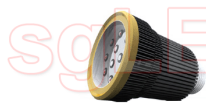
320W



31-GS-320W-MW-01

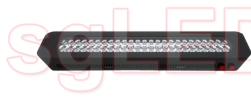
## LED Aquarium Lights

12W



31-AQ12W-01

50W



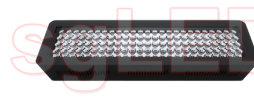
31-AQ50W-01

60W



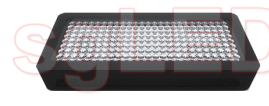
31-AQ60WCREE-01

100W



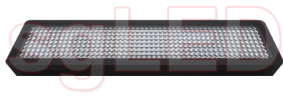
31-AQ100W-01

200W



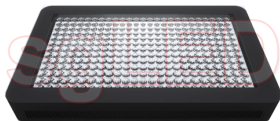
31-AQ200W-01

300W

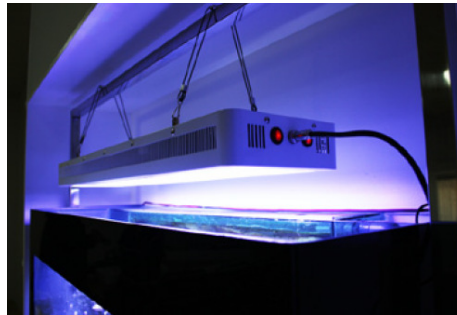


31-AQ300W-01

400W



31-AQ400W-01



## LED Office Lamps

16W



10-LFLT0800-42W-01

16W



10-TLT10105-7WD-01

16W



10-TLT2100BAT-7W-01

16W



10-TLT400C-10W-01



# SUN-GROUPE LED LED TRAFFIC LIGHTS / FEUX DE CIRCULATION LED

## LED Counters / Compteurs LED

10-40W



17-200X04-02  
17-300X04-02



17-300X06-02



Meilleure visibilité  
Anticipation grâce aux compteurs  
Plus de sécurité !

## D20cm (Europe and Switzerland) / D20cm (Europe et Suisse)

25W



17-200X01-02

10W



17-200X02-02

10W



17-200X03-02

15W



17-200X07-02

26W



17-200X08-02

31W



17-200X09-02

16W



17-200X10-02

29W



17-200X11-02

30W



17-200X12-02

8W



17-200X13-02

10W



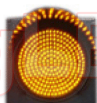
17-200X14-02

8W



17-200X19-02

8W



17-200X20-02

9W



17-200X21-02

5W



17-200X22-02

10W



17-200X23-02

5W



17-200X24-02



## Declared power in Watts

Comparison of powers declared in watts from 3 major technologies compared to the incandescent lamp. The filament lamp being the first technology, it serves as a historical comparison. Having no technology, the comparison is very simple.

## Puissance Déclarée en Watts

Comparaison des puissances déclarées en watts de 3 technologies comparées à la lampe à incandescence. La lampe à incandescence étant la première technologie, elle sert de comparaison historique. N'ayant pas de technologie, la comparaison est très simple.

Economy Lamp Economique	Luminous Flux [lumen]	LED	Equivalent power filament lamp declared
	Flux Lumineux [lumen]		Equivalent de la puissance déclarée
	Halogen Halogène		[W]
125	119	136	15
229	217	249	25
432	410	470	40
741	702	806	60
970	920	1055	75
1398	1326	1521	100
2253	2137	2452	150
3172	3009	3452	200

### **Luminous Flux**

The luminous flux is the light output of a light source. In lumens (lm), it describes the power released in all directions in the visible range. For consumers, the luminous flux is the brightness of a lamp and therefore an important unit. An incandescent lamp 100 W 1400 lumens, a 21 watt fluorescent lamp is approximately 1900 lumens.

### **Light-intensity**

Light intensity (I) represents the luminous flux generated in a given direction of a luminaire or lamp. It is expressed in candelas (cd). The spatial distribution of light intensity is determined by the type of reflector of a lamp or luminaire. It represented graphically as curves.

### **Lumen**

The unit of the lumen (lm) measures the luminous flux describes the light power of a clear light source in all directions in the visible range. The values for the luminous flux of the lamps are given in the product lists of manufacturers and represent an important unit, because they define the brightness of a lamp.

### **Light Output**

Light output expresses the amount of light output in lumens (lm) per watt (W) produced a lamp. It is therefore a criterion for the bottom lamps. The greater the ratio between the light and the required electrical power, the higher the luminous efficiency and thus the profitability are better.

### **Rendering Chromatography**

The different levels of the index chromatography rendering (Ra) is the criterion for rendering chromatographic properties of a light source. An artificial light source Ra 100 makes the color as we perceive the light of day. The higher the R value, the less color is rendered naturally.

### **Flux Lumineux**

Le flux lumineux est la sortie de lumière d'une source de lumière. En lumens (lm), il décrit la puissance libérée dans toutes les directions du gamme visible. Pour les consommateurs, le flux lumineux est la luminosité d'une lampe et constitue donc une unité importante. Une lampe à incandescence de 100 W à 1400 lumens, une lampe fluorescente de 21 watts représente environ 1900 lumens.

### **Intensité Lumineuse**

L'intensité lumineuse (I) représente le flux lumineux généré dans une direction donnée d'un luminaire ou d'une lampe. Il est exprimé en candelas (cd). La distribution spatiale de l'intensité lumineuse est déterminée par le type de réflecteur d'une lampe ou d'un luminaire. Il représentait graphiquement sous forme de courbes.

### **Lumen**

L'unité de la lumière (lm) mesure le flux lumineux et décrit la puissance lumineuse d'une source de lumière claire dans toutes les directions du visible. Les valeurs du flux lumineux des lampes sont indiquées dans les listes de produits des fabricants et représentent une unité importante, car elles définissent la luminosité d'une lampe.

### **Sortie de Lumière**

Le flux lumineux exprime la quantité de flux lumineux en lumens (lm) par watt (W) produite par une lampe. C'est donc un critère pour les lampes inférieures. Plus le rapport entre la lumière et la puissance électrique requise est élevé, plus le rendement lumineux et la rentabilité sont meilleurs.

### **Rendu Chromatographique**

Les différents niveaux de rendu par chromatographie d'indice (Ra) constituent le critère de rendu des propriétés chromatographiques d'une source de lumière. Une source de lumière artificielle Ra 100 crée la couleur à mesure que nous percevons la lumière du jour. Plus la valeur R est élevée, moins la couleur est rendue naturellement.



## Lux

Lux (lx) is the unit representing illuminance. It defines the amount of light. It defines the amount of light or luminous flux (lumens) received by a defined surface: a lux corresponds to the luminous flux of a lumen, which illuminates uniformly a surface of one square meter. The illuminance is measured by a light meter on horizontal and vertical surfaces. The office work requires such a illuminance of 500 lux.

Light Intensity	Usage in the Room	Type of Activity
1000 lux	Precision works	Review of colors, color control, control of goods Precision equipment assembly (E) Jewelry making, alterations, etc.
750 lux	Very fine works	Technical drawing Post tracking and control Error check Selection Plywood Grinding, polishing of glass, precision assembly
500 lux		Offices, data processing Meeting rooms / auditoriums Classroom Crates areas in retail premises
300 lux		Desks and workstations only close windows General work on machines Local sales Expedition
200 lux		Warehouses with sorting tasks coarse mounts Public premises in offices Archives Changing rooms, bathrooms and sanitary
100 lux		Warehouses Traffic routes for persons and vehicles in buildings Stairs, escalators Entrance hall

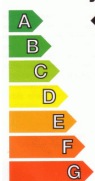
## Energy Label

### What makes saving lamps?

Domestic applications for lamps required under the Energy Ordinance of the Federal Office for Energy, be equipped with an energy label (Energy Label) since 1 January 2003. This label shows which of the seven classes energy efficiency set the lamp in question belongs.

Under this system, A is for "energy efficient" and G for "energy-intensive."

In principle, all the lamps have an energy label, except those with integrated reflector (spots) and most metal halide lamps.



The calculation of the energy efficiency class is carried out on the basis of measured values for the luminous flux and lamp power.

The measurement method specified in DIN EN 50285: 1999 standard "Energy efficiency of electric lamps for household use, measuring process."

This standard refers to the standards of the corresponding lamps.

Some examples of classification:

Economic lamps and fluorescent lamps:

Classes A and B

Incandescent Lamps halide:

For most Class D

Incandescent lamps: Most of classes E and F

Lux (lx) est l'unité représentant l'éclairement. Il définit la quantité de lumière. Il définit la quantité de lumière ou de flux lumineux (lumens) reçue par une surface définie: un lux correspond au flux lumineux d'une lumière qui éclaire uniformément une surface d'un mètre carré. L'éclairement est mesuré par un posemètre sur des surfaces horizontales et verticales. Le travail de bureau nécessite un tel éclairement de 500 lux.

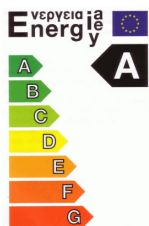
Intensité Lumineuse	Utilisation	Type d'Activité
1000 lux	Travaux de haute précision	Révision des couleurs, contrôle des couleurs, contrôle des marchandises Assemblage d'équipement de précision (E) Fabrication de bijoux, modifications, etc.
750 lux	Travaux de précision	Dessin technique Suivi et contrôle du courrier Vérification d'erreur Contreplaqué de Sélection Rectification, polissage du verre, assemblage de précision
500 lux		Bureaux informatiques Salles de réunion / auditoriums Salle de classe Caisses dans les magasins
300 lux		Les bureaux et les postes de travail ne ferment que les fenêtres Travail général sur des machines Ventes locales, Expéditions
200 lux		Entrepôts avec des tâches de tri montures grossières Locaux publics dans les bureaux Les archives Vestiaires, salles de bain et sanitaires
100 lux		Entrepôts Voies de circulation pour les personnes et les véhicules dans les bâtiments Escaliers, escaliers mécaniques Hall d'entrée

**Etiquette Energétique**

**Qu'est-ce qui fait économiser des lampes?**

Les applications domestiques pour les lampes requises en vertu de l'ordonnance sur l'énergie de l'Office fédéral de l'énergie doivent être munies d'un label énergétique (label énergétique) à compter du 1er janvier 2003. Cette étiquette indique à quelle classe d'efficacité énergétique la lampe appartient.

Dans ce système, A signifie "efficacité énergétique" et G, "intensif en énergie".



En principe, toutes les lampes portent une étiquette énergétique, à l'exception de celles à réflecteur intégré (spots) et de la plupart des lampes à iodures métalliques.

Le calcul de la classe d'efficacité énergétique est effectué sur la base des valeurs mesurées

du flux lumineux et de la puissance de la lampe.

La méthode de mesure spécifiée dans la norme DIN EN 50285: 1999 "Efficacité énergétique des lampes électriques à usage domestique, procédé de mesure".

Cette norme fait référence aux normes des lampes correspondantes.

Quelques exemples de classification:

Lampes économiques et lampes fluorescentes:

Classes A et B

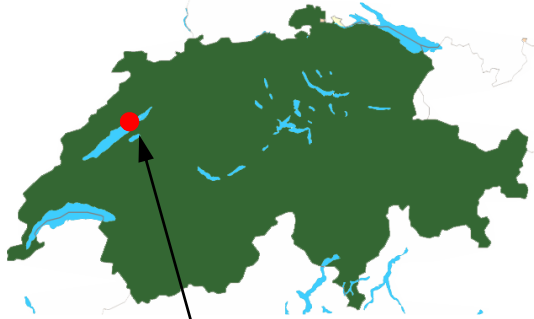
Halogénures de lampes à incandescence:

Pour la plupart des classes D

Lampes à incandescence: la plupart des classes E et F

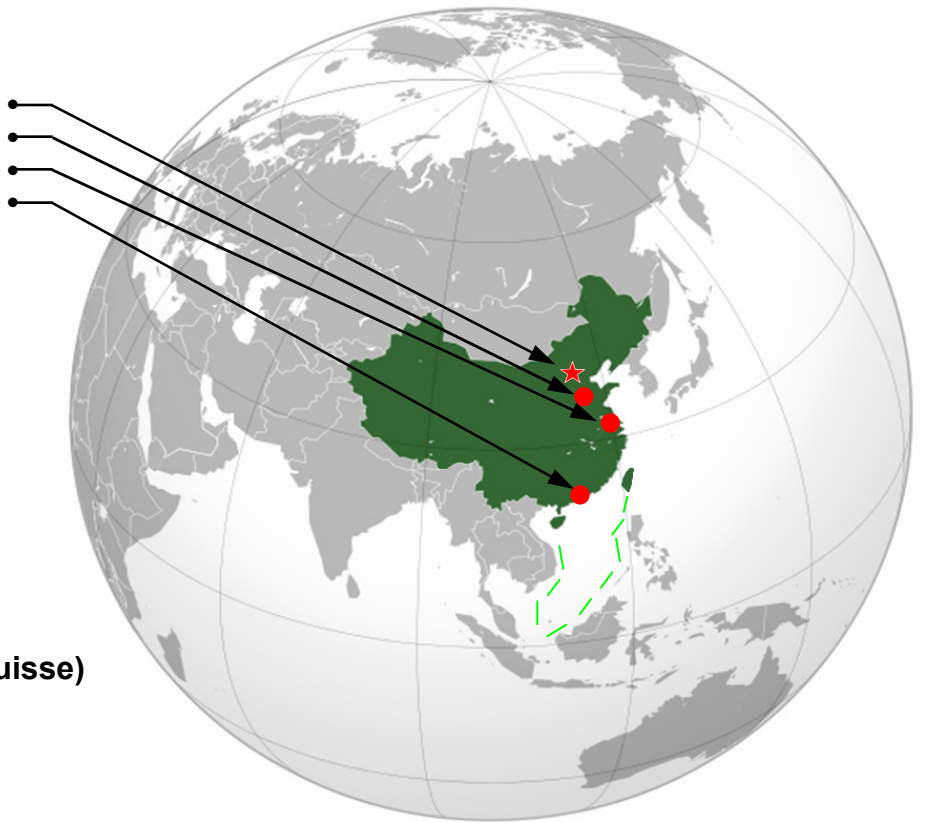
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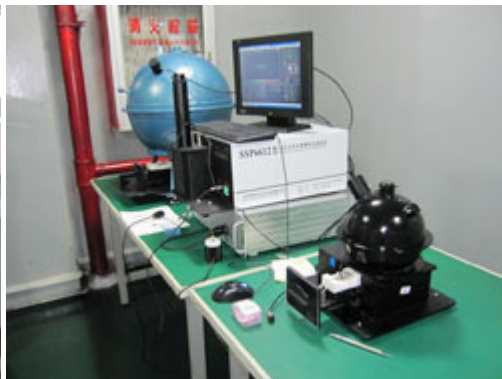
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