

By purchasing the SANlight EVO LED-light you have decided on a high-quality product, which will give you much pleasure. Please read the operating instructions before using your EVO LED-light, as incorrect use can cause damage to the light or to humans/animals/plants. Failure to use the EVO properly will void any manufacturer's warranty and product liability.

Valid for **EVO 3-60, EVO 3-80, EVO 3-100, EVO 4-80, EVO 4-100, EVO 4-120, EVO 5-100, EVO 5-120, EVO 5-150, EVO 6-120, EVO 6-150** further denoted as **EVO**.

ATTENTION: Photobiological safety note:

According to DIN EN 62471, the EVO LED-module corresponds to risk group "exempt". These photobiological safety markings are based on testing of the light output characteristic of a single horticultural luminaire. Increased exposure risk to facility personnel may be present depending upon the number of horticultural luminaires and their placement and/or positioning within the plant growth facility. It is the responsibility of the plant growth facility to address these risks at the facility level and to ensure that people entering the plant growth areas while the lights are on, are aware of these risks and that appropriate safeguards are in place. **Nevertheless, avoid unnecessarily long irradiation and looking directly into the light source.**

Distance to illuminated object

The distance between the LED-light (lower edge of the light) and the illuminated surface or the illuminated object must be at least 15cm.

Scope of application of the light

The SANlight EVO LED-light is only suitable for illuminating plants, even in wet indoor areas.

Permissible ambient temperature for operation

The SANlight EVO LED-light can be operated up to a maximum ambient temperature of 35°C. The minimum ambient temperature at which the SANlight EVO LED-light can be operated is 5°C.

Permissible ambient conditions for operation

The SANlight EVO LED-light may be operated up to a max. relative humidity of 90% (non-condensing).

Required accessories for hanging the lamp

No hanging accessories are included in the scope of delivery. The EVO lamp may only be hung with sufficient load-bearing suspensions. It is recommended that the lights are suspended from the suspension eyes using steel carabiners and ropes. (see figures 1, 2 and 3) The suspension must withstand a permanent load of at least 8 kg.

Permissible orientation of the LED-light

The SANlight EVO LED-light may only be operated in a horizontally suspended position. In this case, a minimum distance to surrounding objects of 15cm must be observed. In order to guarantee the correct position, the light must be suspended from both suspension eyelets. (see Figures 1 and 2) The light may also be suspended via the outer suspension eyelets, in order to achieve an inclined position of the light. See Figure 3.

Laying the cables

When laying any cables, make sure that they are strain-relieved. Under no circumstances should cables be subjected to tension. The cables must be unwound. The EVO light must not be operated with rolled-up cables. Make sure, that they are not concealed or extended through a wall, floor, ceiling or other parts of the building. Also do not locate the cables above a suspended ceiling and make sure that they are not permanently affixed to the building structure. Note, that they are laid in such a way that they are not exposed to stress and are protected from physical damage. Cables must also be visible along their entire length. Notice, that the maximum ambient temperature for running the EVO LED-light with the cable is 35°C.

Maintenance and Cleaning

To clean the LED-light, use a dust and grease-free cloth. The lamp must be disconnected from the mains for cleaning. Never use other aids such as cleaning agents, damp cloths etc. Make sure that the secondary optics of the LEDs are not scratched by cleaning.

Works and Repairs

Repairs and works may only be carried out by the manufacturer. If repairs, modifications and other works are not performed by the manufacturer, the manufacturer's warranty and product liability expire.

Upgrade Service

The individual LED-modules can be exchanged by qualified personnel. Please contact the certified SANlight dealer of trust.

Guarantee Policy

This device has been designed, manufactured and tested in accordance with the European safety standard (EN60598/CE). The guarantee for the LED-light and accessories is 3 years from the date of purchase.

The guarantee does not apply to equipment that has not been installed and maintained as specified in this manual. The manufacturer assumes no responsibility for damage caused by unauthorized or incorrect use. In case of damage, the device (LED-light incl. connecting cable) must be returned to the respective SANlight sales partner, from whom the product was purchased. They send the defective goods to the manufacturer, SANlight. After repair by the manufacturer, the device is returned to the respective sales partner.

Hazard warnings Avertissements de danger

Attention: The minimum distance to objects in the vicinity of the LED-light is 15cm. The heat sink/housing must not be covered. La distance minimale aux objets à proximité de la lumière LED est de 15 cm. Le dissipateur thermique / boîtier ne doit pas être couvert. **Attention:** The SANlight EVO LED-light is only suitable for illuminating plants, even in wet indoor areas. La lumière LED EVO ne peut être utilisée que pour éclairer des plantes, même dans des zones intérieures humides. **WARNING: POSSIBLE RISK OF INJURY TO EYES AND SKIN:** Hazardous optical radiation may be emitted from the light source. Do not stare at operating light source. May be harmful to the eyes. UV may be emitted from the light source. Eye or skin irritation may result from exposure. Use appropriate shielding. IR may be emitted from the light source. Do not stare at operating light source. RISQUE DE BLESSURE POSSIBLE AUX YEUX ET À LA PEAU: Un rayonnement optique dangereux peut être émis par la source lumineuse. Ne regardez pas la source lumineuse quand elle est allumée. Peut être nocif pour les yeux. La source lumineuse peut émettre des rayons UV. L'exposition peut provoquer une irritation des yeux ou de la peau. Utilisez un écran approprié. La source lumineuse peut émettre des rayons infrarouges. Ne regardez pas la source lumineuse quand elle est allumée. **Attention:** Do not operate in a potentially explosive atmosphere. Ne pas utiliser dans une atmosphère potentiellement explosive. **Attention:** The EVO LED-light may reach temperatures of up to 70°C at the maximum ambient temperature (35°C). La lampe LED EVO peut atteindre des températures allant jusqu'à 70 ° C à la température ambiante maximale (35°C). **Attention:** The LED-light must be sufficiently secured against falling. La lumière LED doit être suffisamment sécurisée contre les chutes. **Attention:** If damage to the LED-light or a cable is found, the light must be taken out of service immediately. This must be done by disconnecting the light from the mains supply. En cas de dommage à la lumière LED ou à un câble, la lumière doit être immédiatement mise hors service. Cela doit être fait en déconnectant la lumière de l'alimentation secteur. **Attention:** To avoid hazards, a damaged outer flexible cable of this light may only be replaced by the manufacturer, their service representative or a comparable specialist. Pour éviter tout danger, un câble flexible extérieur endommagé de cette lampe ne peut être remplacé que par le fabricant, son technicien de maintenance ou un spécialiste comparable. **Attention:** The light source cannot be obtained separately. La source lumineuse ne peut pas être obtenue séparément. **Attention:** To protect against injuries, appropriate personal protective equipment (PPE) must be worn when working in the area of the lamp. Pour vous protéger contre les blessures, vous devez porter un équipement de protection individuelle (EPI) approprié lorsque vous travaillez dans la zone de la lampe. **Attention:** The models of the EVO-Series are NOT designed for looping through the mains supply. Les modèles de la série EVO ne sont PAS conçus pour faire une boucle sur le secteur.

Scope of Delivery

Figure 4 shows all the components of your EVO LED-light. Please check the contents of the packaging for completeness and damage. Never use damaged components. The mains connection cable is not included and can be ordered separately from your dealer. The scope of delivery includes: 1 x EVO LED-light, Operating instructions.

Installation and Assembly Instructions

Fixing and suspension of the SANlight EVO LED-light: The EVO LED-light can be suspended from the suspension eyelets (see Figures 1, 2 and 3). When suspending the LED-light, a safety distance of 15 cm to surrounding objects must be observed. Make sure that your suspension is secure and secure the light against accidentally falling.

EVO electrical connection: The EVO LED-light must be connected to the power supply via a separately available SANlight connection cable (see table 1) . It is possible to connect each light separately or to connect several lights in parallel to each other. For both options SANlight cables must be used.

Electrical connection of one single EVO lamp: To connect each lamp by a separate power cable the following country specific cables can be used. First connect the cable to the lamp, before connecting to the grid.

	SANlight article number	description	properties	socket
Table 1	AI0037	Grid power cable EVO-Series EU	2m, PVC, AWG 16, black	Euro plug
	AI0038	Grid power cable EVO-Series UK	2m, PVC, AWG 16, black	UK plug
	AI0039	Grid power cable EVO-Series CH	2m, PVC, AWG 16, black	Switzerland plug SEV1011
	AI0040	Grid power cable EVO-Series US	2m, PVC, AWG 16, black	US plug NEMA 5-15 P

Connecting several lamps

Depending on the circuit breaker different numbers of EVO LED-lights can be connected to one power socket. Please check table 1.

Powerline fuse protection

Circuit breaker Typ B 230V
Circuit breaker Typ C 230V

Number of lights per circuit breaker

4 lamps
7 lamps

For connecting more as 7 lamps an inrush current protector has to be used. To connect several lamps to one power socket the following items are needed.

SANlight article number	description	quantity
AI0037 / AI0038 / AI0039 / AI0040	Grid power cable Q-Series Gen2 2m, PVC, AWG 16, black	1
AI0018	H distribution block	1 pcs. for 2 lamps
AI0022	Cable extension 1m, PVC, AWG 16, black	1 pcs. per lamp

Attention: Connecting several lamps to one power socket must be done by skilled staff. Please contact your certified SANlight trading partner. Check our website www.sanlight.com for detailed instructions.

Tec. Specifications EVO 3-60, EVO 3-80 and EVO 3-100

Mains power consumption	200W
Input voltage	120/277V~ 50/60Hz
Permissible ambient temperature	5-35°C

Tec. Specifications EVO 4-80, EVO 4-100 and EVO 4-120

Mains power consumption	265W
Input voltage	120/277V~ 50/60Hz
Permissible ambient temperature	5-35°C

Technical Specifications EVO 5-100, EVO 5-120 and EVO 5-150

Mains power consumption	340W
Input voltage	120/277V~ 50/60Hz
Permissible ambient temperature	5-35°C

Tec. Specifications EVO 6-120 and EVO 6-150

Mains power consumption	400W
Input voltage	120/277V~ 50/60Hz
Permissible ambient temperature	5-35°C

For the position of the Tc measuring point see marking in figure 5.

Technical Specifications of a single LED-module

Operating current	0,73A (DC)
Power	63W
Operating voltage	86V (DC)
Tc	105°C



Attention: Do not look directly into the light source. Ne regardez pas directement dans la source lumineuse.
"照明器具を長時間見続けることがないように照明器具を設置すること"



The LED-light must not be disposed of in household waste! For disposal, the light can be handed back to the manufacturer. The disposal costs are borne by the manufacturer. Alternatively, the light can be delivered to a disposal company for electrical appliances. La lampe LED ne doit pas être jetée avec les ordures ménagères! Pour l'élimination, la lumière peut être restituée au fabricant. Les coûts d'élimination sont à la charge du fabricant. Alternativement, la lumière peut être livrée à une entreprise d'élimination des appareils électriques.



Attention: The light is not suitable for covering! La lumière n'est pas adaptée pour couvrir!



Caution: Risk of shock. Disconnect power before relamping. Attention: Risque d'électrocution. Débrancher l'alimentation avant de remplacer la lampe.

IP65

Dustproof and jet-proof luminaire. Antipoussière et protégé contre les jets d'eau sous tous les angles.



The light source of this light may only be replaced by the manufacturer or a service technician appointed by him or a similarly qualified person. La source lumineuse de cet éclairage ne peut être remplacée que par le fabricant ou un technicien de maintenance désigné par lui ou une personne de qualification similaire.



Figure 1



Figure 2



Figure 3



Figure 4

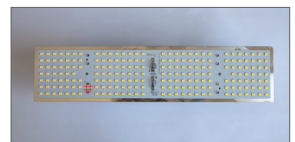


Figure 5