spectbee

CUSTOM DESIGNED
SINGLE & MULTI - CHANNEL
GROW LIGHT SOLUTIONS

SPECTBEE is the new brand of Bahar Lighting with advanced production facilities and a very wide range of products that gives its name to the growing luminaires that it has been carrying out R& D and Design processes since 2017.

It carries out the design and manufacture of growing fixtures for Modern Greenhouses, Tissue Culture Facilities, Scientific Growing Environments, Indoor Growing Environments. Thanks to the advanced radiometric and photometric testing facilities, qualified and quantitative products for the needs, especially in indoor growing environments, are developed and produced within the company. The design, production and testing processes of the products are carried out in the 36-year-old company's modern production facilities of 16,500 m2 located in Ankara.

Conventional greenhouse structures for the needs of the most advanced scientific facilities in many different facilities design and Project Engineering Support offers advanced design and technology and engineering services together with select partners.

SPECTBEE is a BAHAR LIGHTING brand.

PRODUCTION

BAHAR
LIGHTING

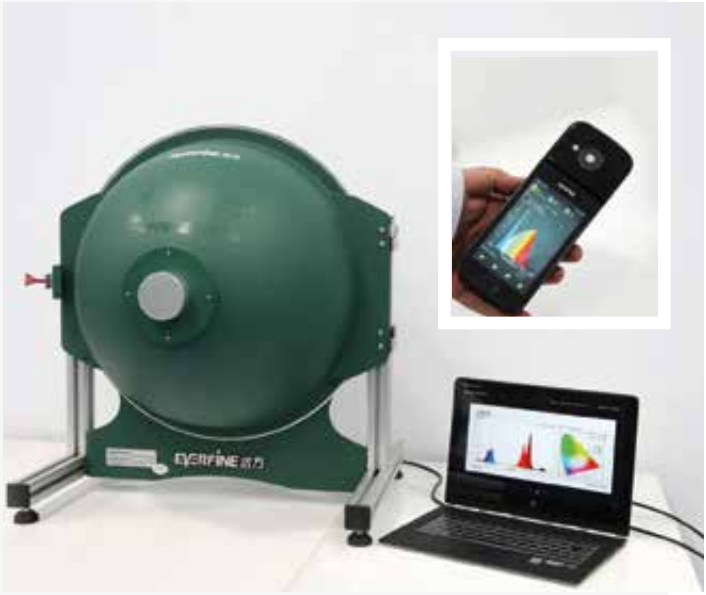
The Bahar Lighting factory with an area of 16 thousand square meters and 250 employees has been producing customized Lighting for more than 36 years. The manual labor of our workers is combined with the professional functioning of our machine park. From crystal to metal, from wood to polyester, from ceramics to glass; With our 36 years of experience and excitement, we combine many materials and complete many projects every year.

Susuz, İstanbul Yolu 26. Km, 06980 Yenimahalle/Ankara - Ankara / Yenimahalle 0312 351 76 86 proje@baharaydinlatma.com.tr

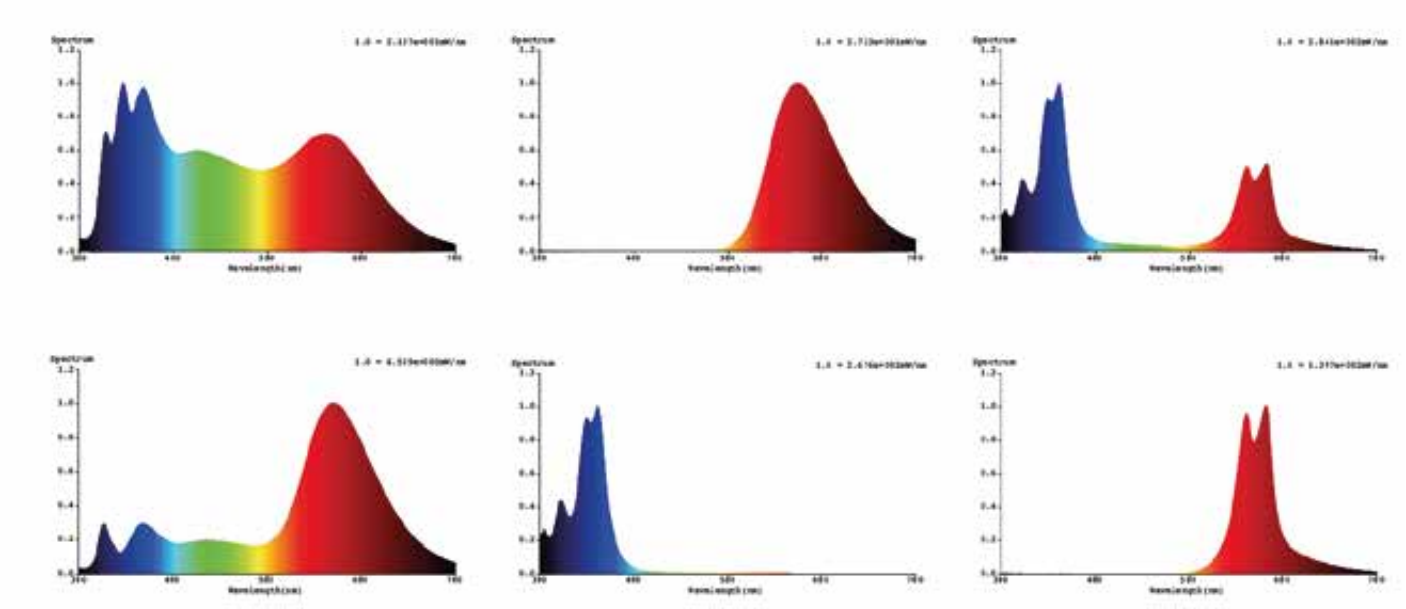
labbee
LABORATORIES

TÜRKAK

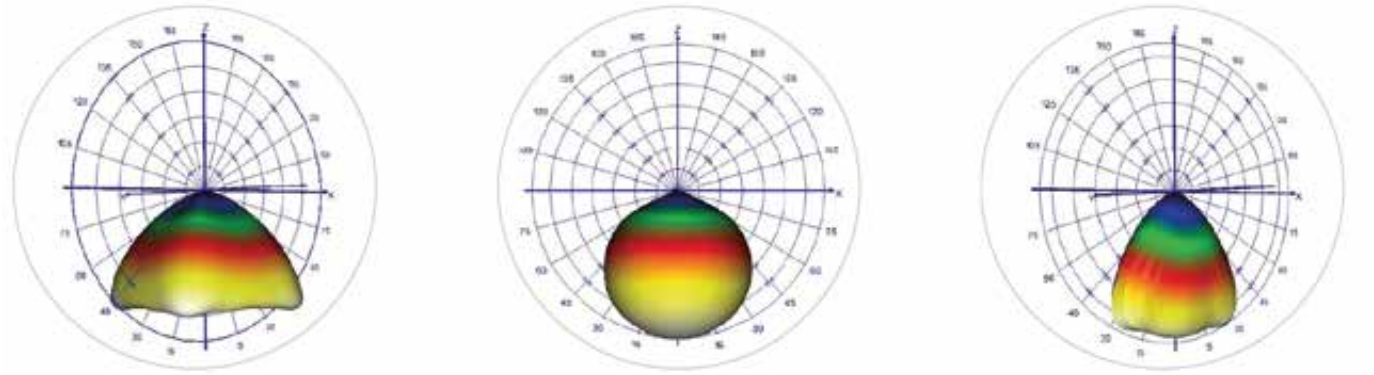
Bahar Lighting Inc. Founded in 2016, a limited number of Laboratories in our country Lighting Labbee support the sector by increasing the number of optical laboratory accreditation since 2018 and our brand offers.



CUSTOMIZED SPECTURUM SOLUTIONS

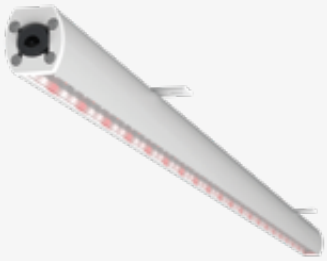


Spectbee designs and manufactures led lighting fixtures that grow in many areas such as tissue culture facilities, greenhouses and indoor production facilities.
In addition to standard solutions, it is able to offer various solutions, including broadband and all low-band spectrum options.



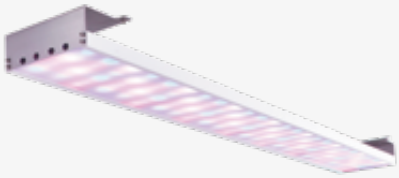
PRODUCTS

GL - M1



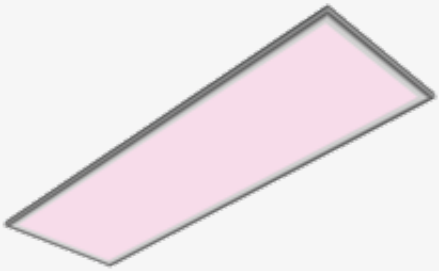
GL- M2

Grow Light- P



Grow Light - V3

HPS Toplight



Grow Panel - A

Grow Panel - B

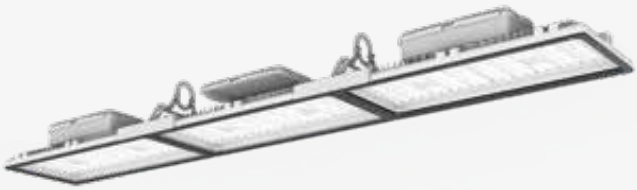
Grow Module Low

Grow Module High

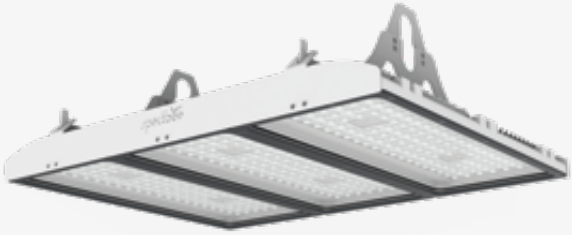
HOG Light

PRODUCTS

Grow Light - V2



Led Toplight V1



Led Toplight V2

Indoor Garden Kit

Growing Cabin

Container

GL- M1

GL - M1 plant lighting fixture is suitable for use in tissue culture, seedling and vertical agriculture application areas. It offers an excellent optical distribution solution with an energy density that can be customized according to the needs of your plant.

SPACE SAVINGS

SAVING ELECTRICITY

IP 65

2,6 µmol

Tissue Culture and General Nursery Alternative Spectrum Options for

up to 57 µmol/s optical up power

Wide Optical Characteristic **(120D)**

Modular Low DC Voltage Operation

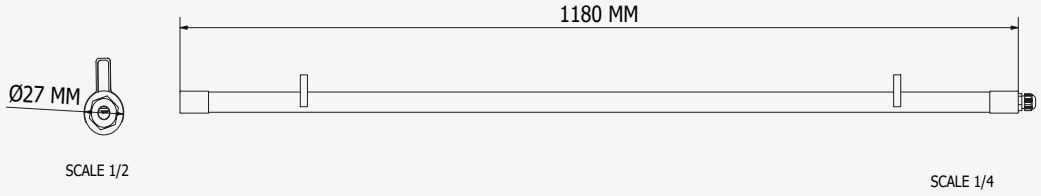
Low Thermal Stress External Power Supply

Customizable Spectrum Options

Dimmable 1 - 10V THE BRANCH or PUSH

Up to 22W/MT power density

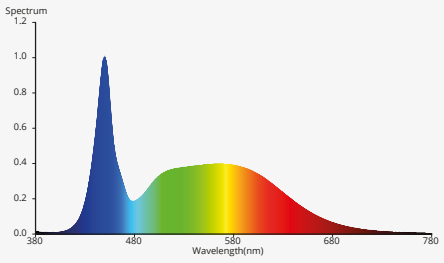
Product Dimensions



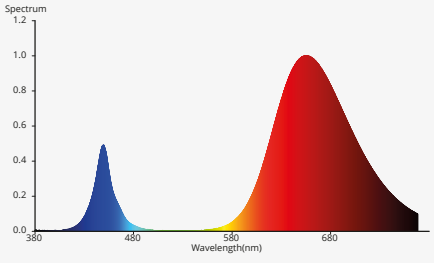
Product Specifications

Lighting Group	Tissue Culture and General Seedling Cultivation
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	up to 2.6 µmol/s/W
Thermal Management	Passive
Input Voltage	24V D.C
Output	22W/115 cm
Max. Ambient Temperature	35C°
Product Dimensions	27 mm x 1180 mm
Angle Of Light	120
Type of Installation	Surface Mount
Weight	0,35 kg.
Protection Class	IP65
Average Lifetime	L90 B50 > 30,000 hour
Power Factor	>%90

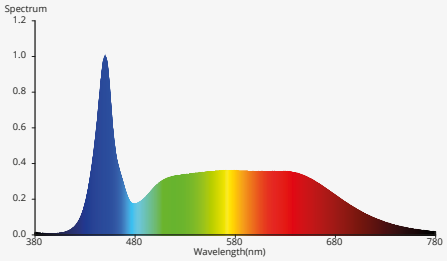
The GL-M1 product provides one-to-one exchange, especially in applications where T8 type fluorescence is used. It provides many advantages to the user with its spectrum diversity and energy efficiency. Thanks to its special glass case, it is resistant to all types of chemicals used in the environment.



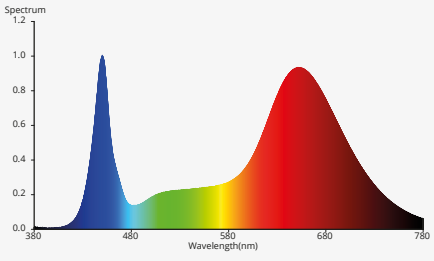
SP - 1 FULL WHITE



SP - 2 FULL GROWTH



SP - 3 BALANCED GROWTH



SP - 4 STRONG GROWTH

Grow Light - P

The GL-P model is designed for cultivation rooms, tissue culture facilities, vertical agricultural applications. The product, whose dimensions are brought to the optimum level, is preferred for many applications due to the fact that it can be produced in different lengths and is in a high protection class according to environmental conditions.

SHELF SAVING

SAVING ELECTRICITY

IP 65

3,0 µmol

Build a whole plant, especially vertical farming

225 µmol/s up to the Luminous Power

Wide Optical Characteristic **(116D)**

Customizable Spectrum Options

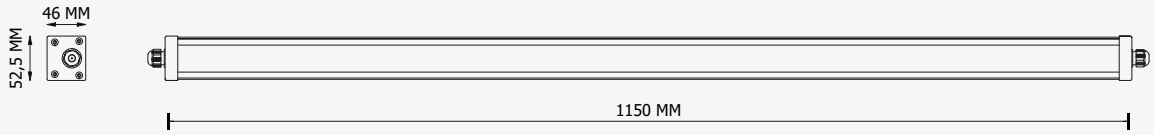
Low Thermal Stress

Up to 75W Power Density

It can be controlled by optional 2-channel working structure

Dimmable 1 - 10V DALI or PUSH

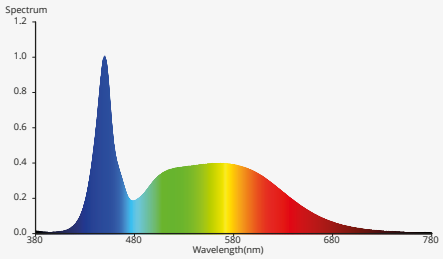
Product Dimensions



Product Specifications

Lighting Group	All Facilities
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	up to 3.0 µmol/s/W
Thermal Management	Passive
Input Voltage	220V A.C
output	75W / 115 cm
Max. Ambient Temperature	35C°
Product Dimensions	1150 mm x 52,5 mm x 46 mm
Angle Of Light	116
Type of Installation	Surface Mount
Weight	1,8 kg. / 1150 mm
Protection Class	IP65
Average Lifetime	L90 B50 > 30,000 hour
Power Factor	>%90

For applications that require a high energy level result (200-1000 µmol/m2/s) and a homogeneous light distribution, the GL-P model is the most suitable option. Besides the different spectra used in the GL-P model, 2-channel application is also often preferred.



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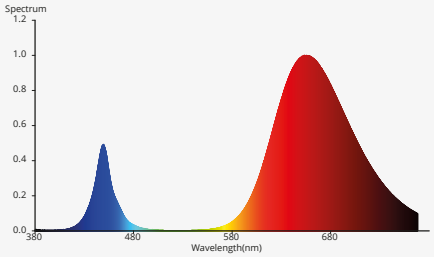
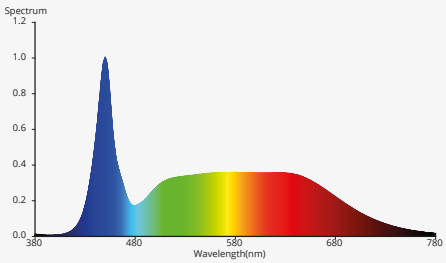
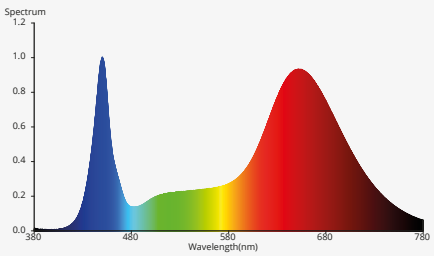


SP - 2 FULL GROWTH



SP - 3 BALANCED GROWTH



SP - 4 STRONG GROWTH

GL - M2

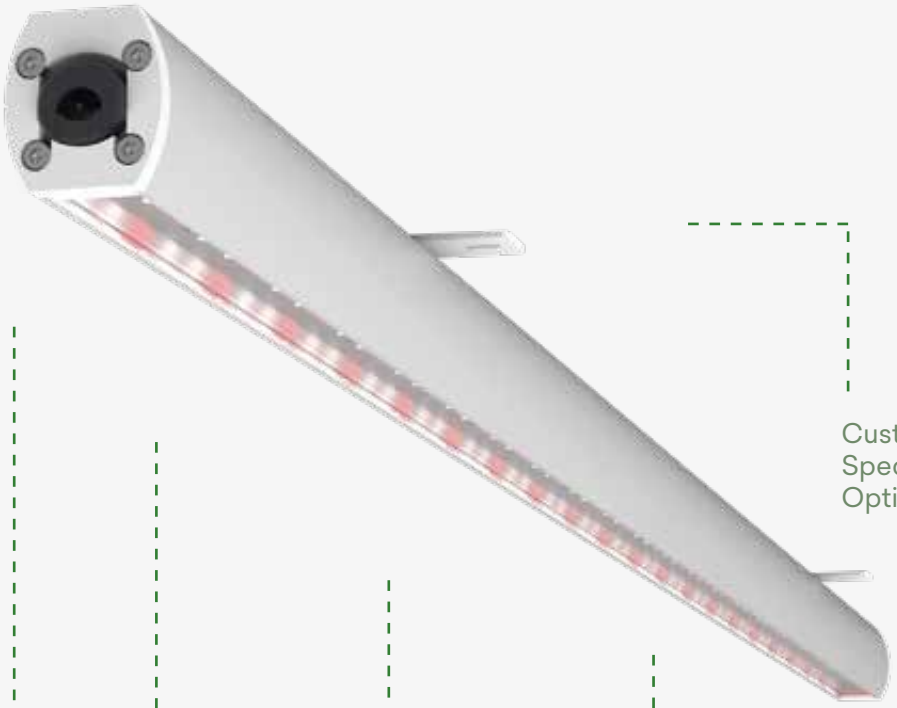
The GL - M2 armature has been designed for use in tissue culture, seedling and general cultivation. It provides high luminous efficiency with low energy consumption, as well as the possibility of lighting at wavelengths appropriate for the needs of the targeted plant with customizable spectrum values.

SHELF SAVING

SAVING ELECTRICITY

IP 65

2,6 µmol



Customizable Spectrum Options

Tissue Culture, Seedling and General Cultivation

up to 78 µmol/s/W up to the Luminous Power **(D 120)**

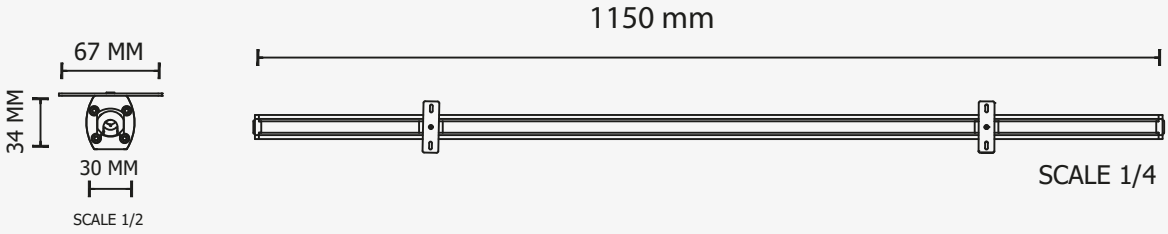
30W power density

up to 78 µmol/s/W up to the Luminous Power

For Low Thermal Stress External Power Supply

Dimmable 1 - 10V THE BRANCH or PUSH

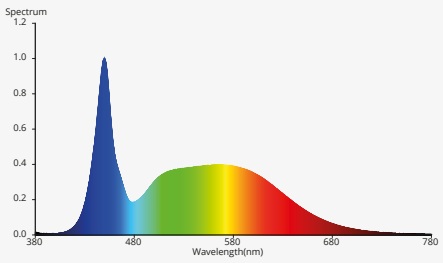
Product Dimensions



Product Specifications

Lighting Group	Tissue Culture, Seedling Cultivation, General Cultivation
Light Source	Led
Spectrum	Wide Band, Narrow Band
Effect	up to 2.6 mol/s/W
Thermal Management	Passive
Input Voltage	24V D.C
output	30W / 115 cm
Max. Ambient Temperature	35C°
Product Dimensions	1150 mm x 30 mm x 34 mm
Angle Of Light	120
Type of Installation	Surface Mount
Weight	0,85 kg / 1150 mm
Protection Class	IP20 - IP65
Average Lifetime	L90 B50 > 30,000 hour
Power Factor	>%90

The GL-M2 product offers solutions for applications where low energy density is desired. With its high energy efficiency and spectrum variations, it is also used in many applications. With aluminum narrow design, it is suitable for use in narrow spaces.



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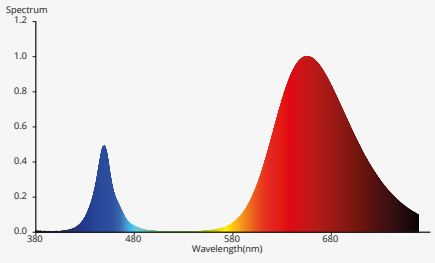

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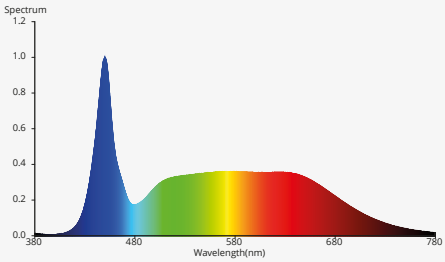
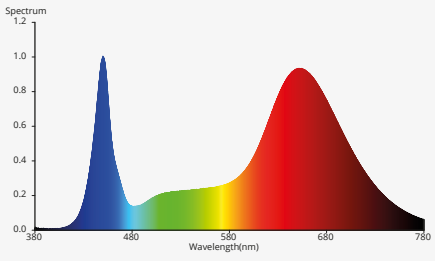


SP - 3 BALANCED GROWTH



SP - 4 STRONG GROWTH

Grow Light - V2

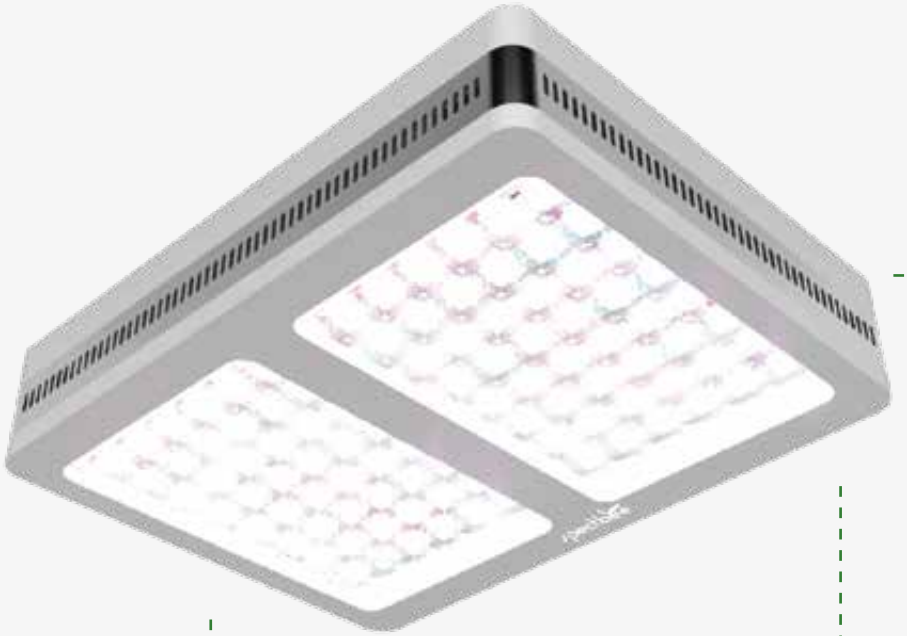
With its high power output and minimized design, it offers the ideal design for narrow spaces. The preferred product for domestic use has a dual-channel design and provides spectrum variation according to the period of the plant.

SHELF SAVING

SAVING ELECTRICITY

IP 20

2,9 µmol



435 µmol/s up to the Luminous Power

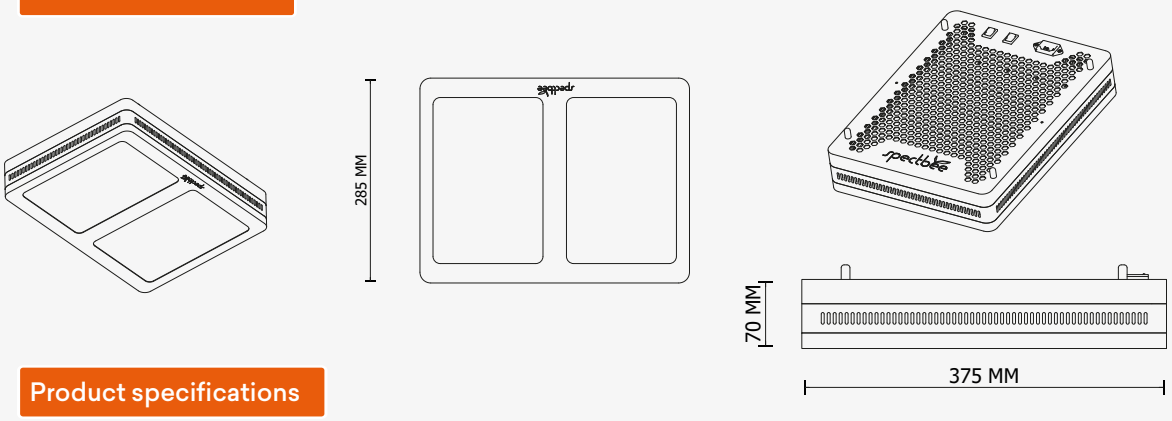
45-60-90-120 degree optical options

Customizable Spectrum Options

Dimmable 1 - 10V THE BRANCH or PUSH

power density up to 150w

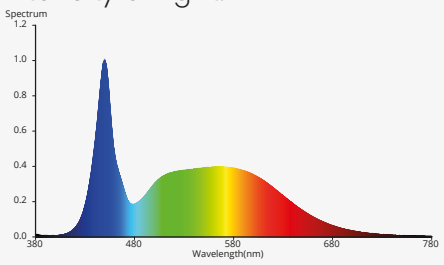
Product Dimensions



Product specifications

Lighting Group	Scientific and General Cultivation
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	Up to 2,9 µmol/s/W
Thermal Management	Passive
Input Voltage	220V A.C
output	150W
Max. Ambient Temperature	35C°
Product Dimensions	375 mm x 285 mm x 70 mm
Angle Of Light	40 - 60 - 90 - 120
Type of Installation	Surface Mount
Weight	5 kg.
Protection Class	IP20
Average Lifetime	L90 B50 > 30,000 hour
Power Factor	>%90

The GL-V2 product, which is preferred for home-type application, stands out in amateur applications. It offers solutions for many plants with its spectrum adjustment, which can be done manually on the product, and optionally the ability to reduce the intensity of light.



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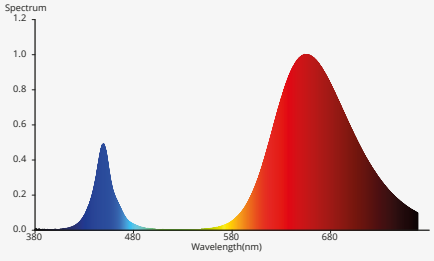

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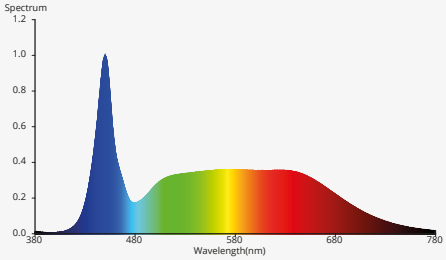
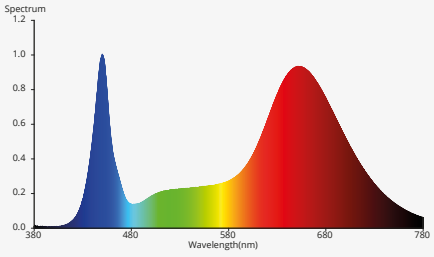


SP - 3 BALANCED GROWTH



SP - 4 STRONG GROWTH

Grow Light - V3

The Grow light-V3 luminaire is designed for indoor cultivation, as well as for plant scientists to use in their research, with 8 decoupled wavelengths ranging from 380nm (UVA) to 735nm (FARRED).

The Scientific V1 fixture can offer multiple channel options with up to 8 features.

SHELF SAVING

SAVING ELECTRICITY

Aluminum Body

up to 336 µmol/s up to the luminous power

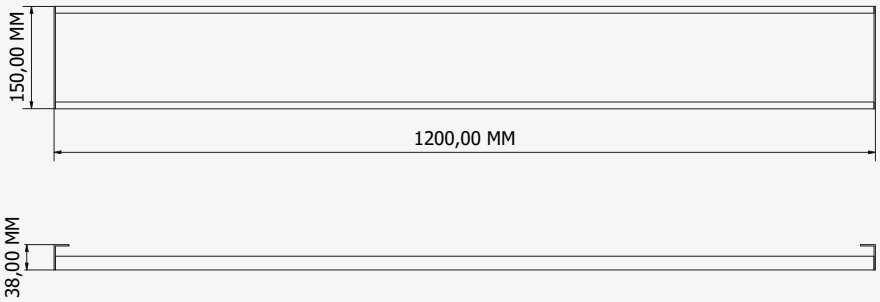
Suitable for Multi-Sto-rey Systems

Low Thermal Stress with External Driver

up to 8 channels with a working structure diversity in the spectrum

Dimmable 1 - 10V THE BRANCH or PUSH

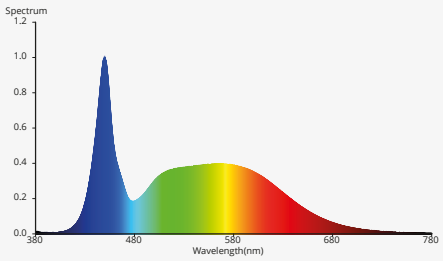
Product Dimensions



Product specifications

Lighting Group	Scientific Cultivation
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	2,8 µmol/s/W'a kadar
Thermal Management	Passive (Aluminum Body)
Input Voltage	24V D.C
Output	120W / 1200 Mm
Max. Ambient Temperature	35C°
Product Dimensions	1200 mm x 150 mm x 20 mm
Angle Of Light	120
Type of Installation	Surface Mount
Weight	4,8 kg. / 1150 mm
Protection Class	IP20
Average Lifetime	L90 B50 > 30,000 saat
Power Factor	>%90

The Growlight-v3 luminaire can achieve and customize a large number of spectrums with Dali control. Thanks to its thin structure and ease of connection, it can be used seamlessly in all areas of indoor systems.



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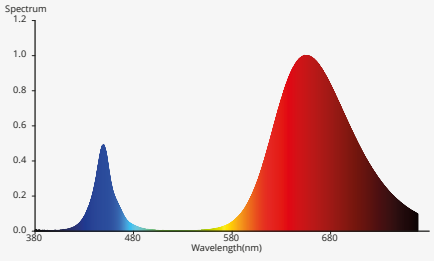
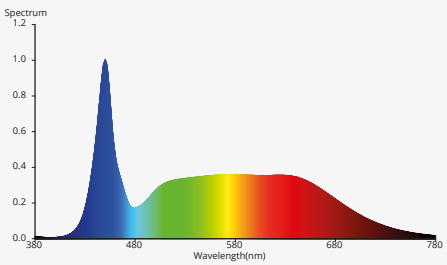
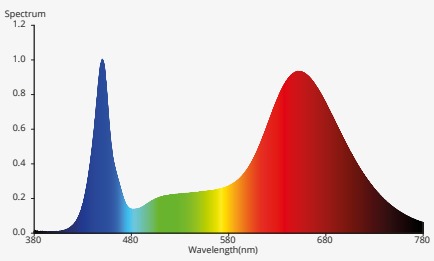


SP - 2 FULL GROWTH



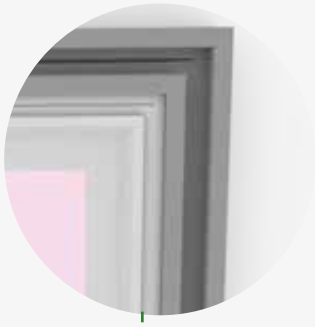
SP - 3 BALANCED GROWTH



SP - 4 STRONG GROWTH

Grow Panel - A

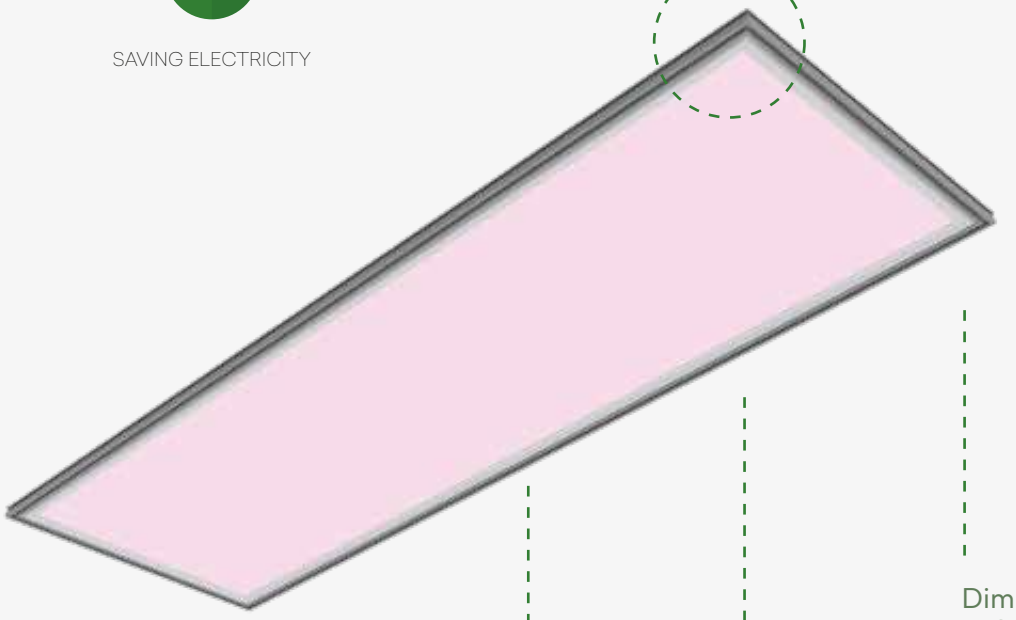
Grow Panel provides the installation of a special rack system in tissue culture facilities. This racking system increases the growing surface in the unit area. The light is uniformly distributed over the surface of the product. In addition, it prevents the environment from heating up.



Sigma profiles can be integrated

SHELF SAVING

SAVING ELECTRICITY



Aluminum Body Design

umol/s **204** up to the Luminous Power

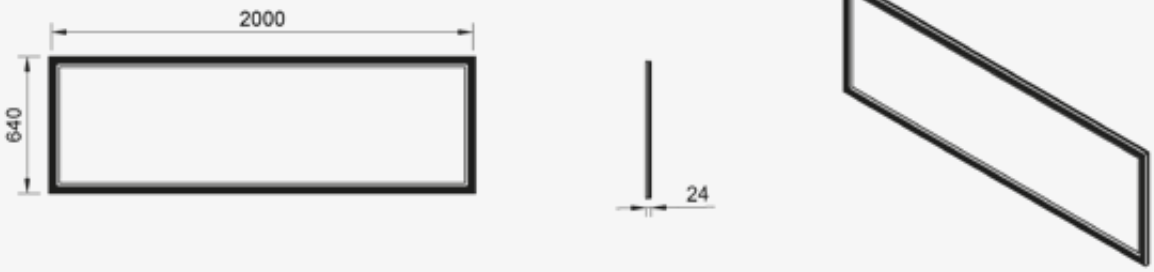
Saving space in Multi-storey Systems

Customizable Spectrum Options

Uniform light emission

Dimmable 1-10V branch or PUSH

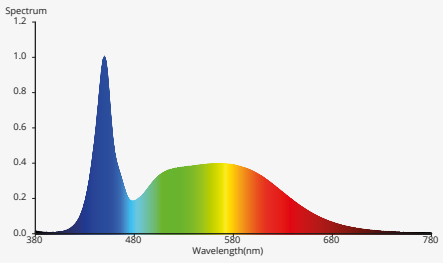
Product Dimensions



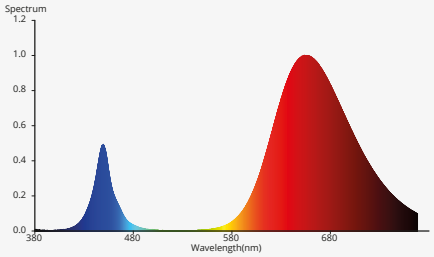
Product specifications

Lighting Group	Tissue Culture and Germination
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	up to 1.7 µmol/s/W
Thermal Management	Passive (Aluminum Body)
Input Voltage	2 x 44 - 50V D.C (Max. 2 x 1300mA)
output	120/ W / 2000 x 640 mm
Max. Ambient Temperature	35C°
Product Dimensions	2000mm x 640 mm x 25mm(Customizable)
Angle Of Light	Wide-Angle - Uniform Propagation
Type of Installation	Surface Mount / Suitable for Sigma Profile
Weight	20 kg.
Protection Class	IP20
Average Lifetime	L90 B50 > 30,000 hour
Power Factor	>%90

We provide the spectrum in many different variations according to the development periods of the plant. Grow Panel products are produced by designing the spectrum according to the product in different ways. Another feature of these products is the details on the product edge profiles, which provide practical solutions in practice.



SP - 1 FULL WHITE



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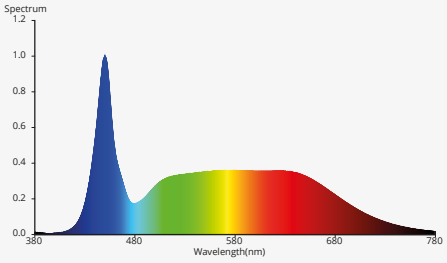

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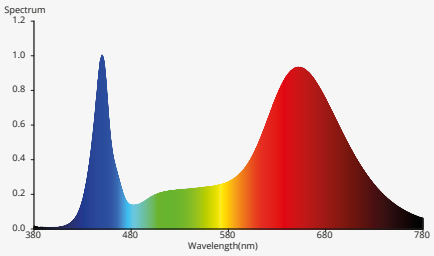


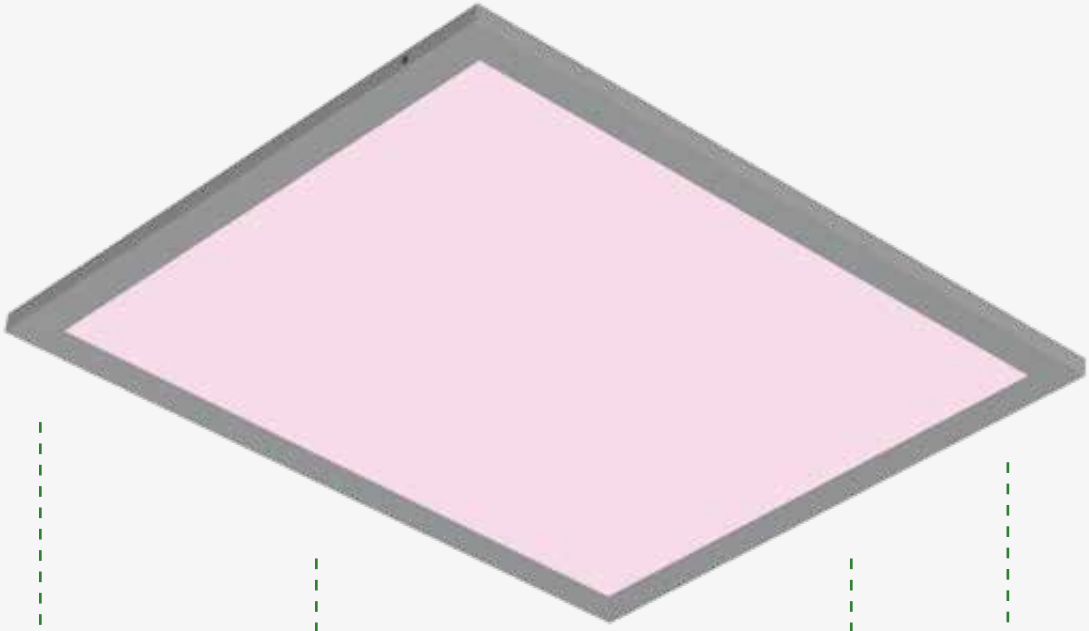
SP - 4 STRONG GROWTH

Grow Panel - B

Grow Panel provides the installation of a special rack system in tissue culture facilities. This racking system increases the cultivation surface in the unit area. The light is uniformly distributed over the surface of the product. In addition, it prevents the environment from heating up.

SHELF SAVING

SAVING ELECTRICITY



Aluminum
Body Design

72 µmol/s
up to the
Luminous Power

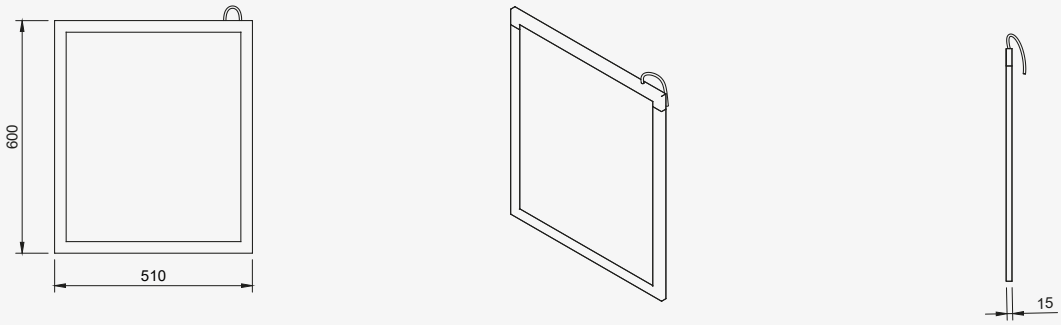
Saving space
in
Multi-storey
Systems

Customizable
Spectrum
Options

Uniform light
emission

Dimmable
1 - 10V
THE BRANCH
or PUSH

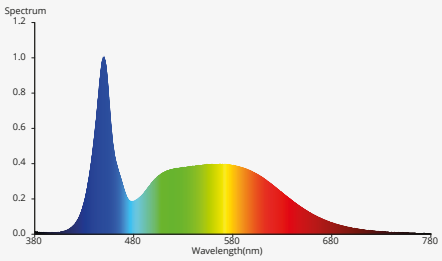
Product Dimensions



Product specifications

Lighting Group	Tissue Culture and Germination
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	up to 1.7 µmol/s/W
Thermal Management	Passive (Aluminum Body)
Input Voltage	44 - 50V D.C (Max. 900mA)
Output	42W / 600 x 510 mm
Max. Ambient Temperature	35C°
Product Dimensions	600mm x 510mm x 15mm (Customizable)
Angle Of Light	Wide-Angle - Uniform Propagation
Type of Installation	Surface Mount
Weight	4,4 kg.
Protection Class	IP20
Average Lifetime	L90 B50 > 30,000 hour
Power Factor	>%90

We provide the spectrum in many different variations according to the development periods of the plant. Grow Panel products are produced by designing the spectrum according to the product in different ways. Another feature of these products is the details on the product edge profiles, which provide practical solutions in practice.



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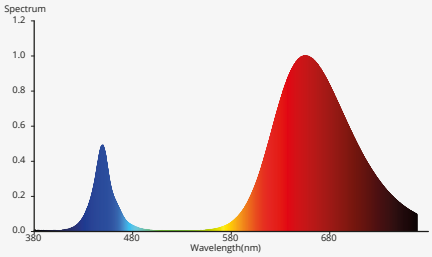

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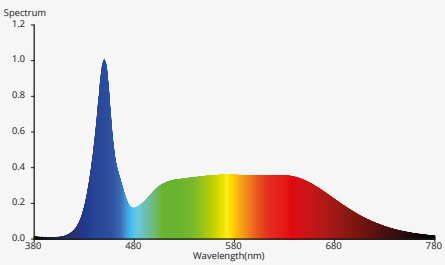
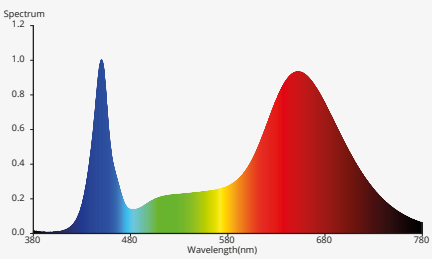


SP - 3 BALANCED GROWTH



SP - 4 STRONG GROWTH

Grow Module High

GMH is a cultivation product designed for special applications with high performance and low light output. Modular and scalable projects are being created with the product preferred by professional growers. It stands out with its space saving for single-storey and multi-storey applications.

SHELF SAVING

SAVING ELECTRICITY

IP 65

3,0 µmol

Simple Assembly Structure

Connection Ease

up to 1800 µmol/s/W
up to the Luminous Power

Wide Optical Characteristic

Power Density up to 600W

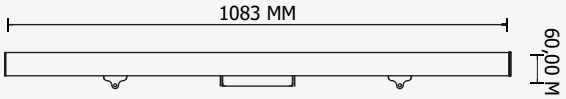
For Low Thermal Stress External Power Supply

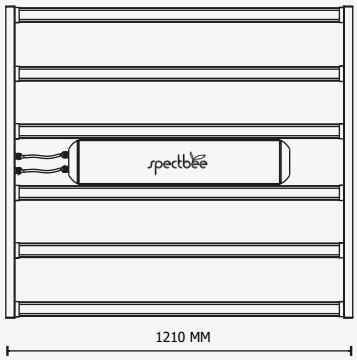
Customizable Spectrum Options

Dimmable 1 - 10V THE BRANCH or PUSH

It can be controlled by optional 2-channel working structure

Product Dimensions

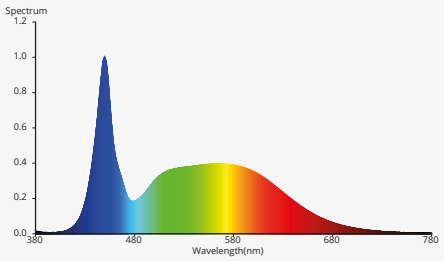




Product specifications

Lighting Group	General Cultivation and Storied Systems
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	up to 3.0 µmol/s/W
Thermal Management	Passive
Input Voltage	220V A.C
output	600W
Max. Ambient Temperature	35C°
Product Dimensions	1210 mm x 1083 mm x 60 mm
Angle Of Light	116
Type of Installation	Surface Mount
Weight	17 kg
Protection Class	IP65
Average Lifetime	L90 B50 > 30,000 hour
Power Factor	>%90

Thanks to its special design, it is an ideal product for obtaining more product output and better quality products in shelf applications. With this product, it is used on many kinds of plants with the rise of high PPFD levels.



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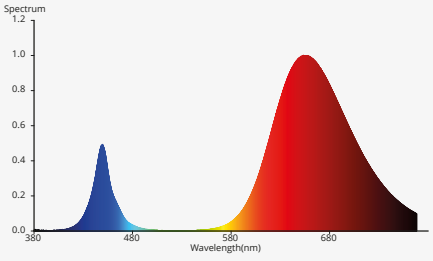
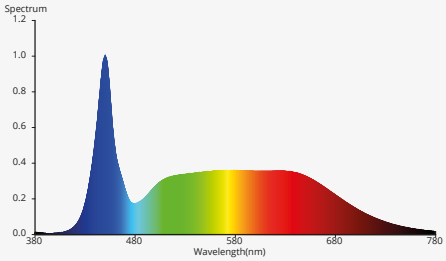
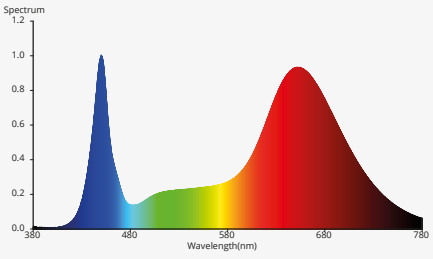


SP - 2 FULL GROWTH



SP - 3 BALANCED GROWTH



SP - 4 STRONG GROWTH

Grow Module Low

GML is a cultivation product designed for special applications with high performance and low light output. Modular and scalable projects are being created with the product preferred by professional growers. It stands out with its space saving for single-storey and multi-storey applications.

SHELF SAVING

SAVING ELECTRICITY

IP 20

3,0 µmol

Tissue Culture and General Cultivation

Wide Optical Characteristic((120D

up to 960 µmol/s up to the Luminous Power

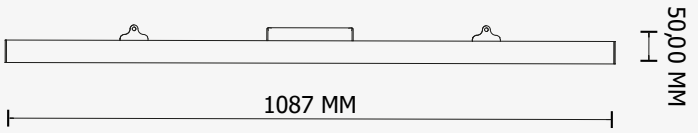
For Low Thermal Stress External Power Supply

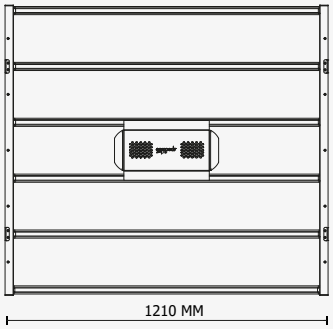
Customizable Spectrum Options

Dimmable 1 - 10V THE BRANCH or PUSH

Power Density Up to 320W

Product Dimensions

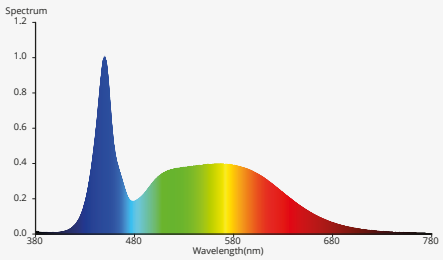




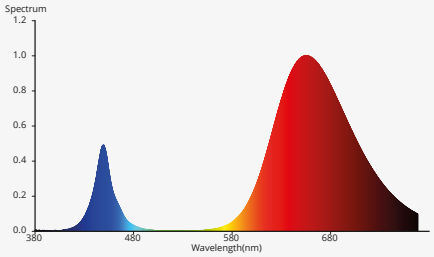
Product specifications

Lighting Group	Tissue Culture and General Cultivation
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	up to 3.0 µmol/s/W
Thermal Management	Passive
Input Voltage	220V A.C
Output	320W
Max. Ambient Temperature	35C°
Product Dimensions	1210 mm x 1087 mm x 50 mm
Angle Of Light	120
Type of Installation	Surface Mount
Weight	9 kg
Protection Class	IP20
Average Lifetime	L90 B50 > 30,000 hour
Power Factor	>%90

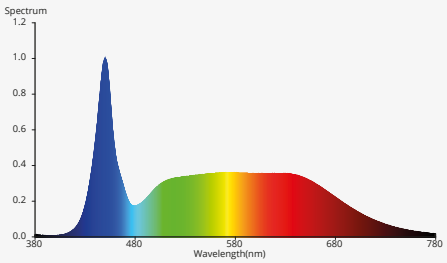
Thanks to its special design, it is an ideal product for obtaining more product output and better quality products in shelf applications. With this product, project farming can be carried out under ideal application conditions at low PPFD levels.



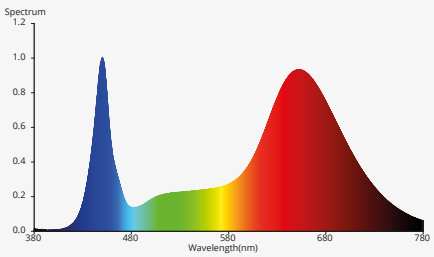
SP - 1 FULL WHITE



SP - 2 FULL GROWTH



SP - 3 BALANCED GROWTH



SP - 4 STRONG GROWTH

HOG Light

The HOG Light product provides 1000 Watts of HPS product light output with an energy consumption of 600 Watts. In addition to energy efficiency, it is the best product in the product range in terms of price/performance ratio compared to other products. With the innovations made in thermal design, it works in an ideal thermal distribution with passive cooling.

SHELF SAVING

SAVING ELECTRICITY

IP 20

3,0 µmol

Power Density
up to 600W

up to 1800 µmol/s
up to the Luminous Power

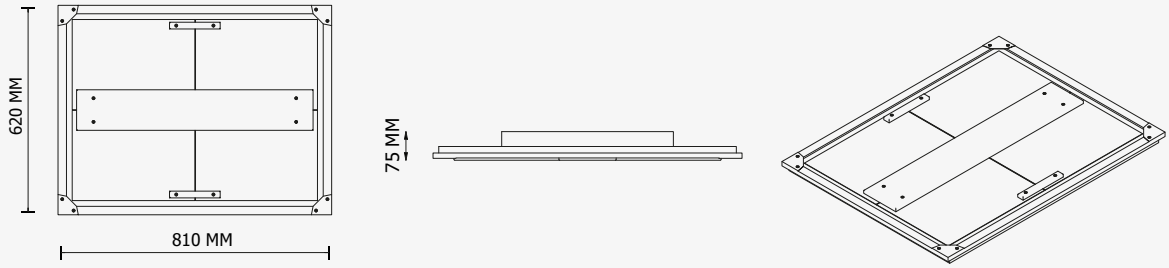
Wide Optical
Characteristic(
(120D

For Low Thermal
Stress
External Power
Supply

Customizable
Spectrum
Options

Dimmable
1 - 10V
THE BRANCH
or PUSH

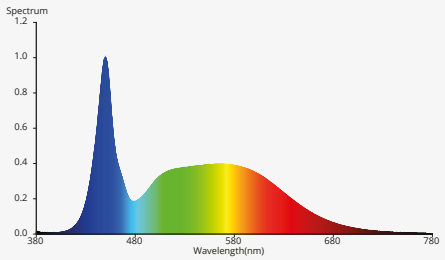
Product Dimensions



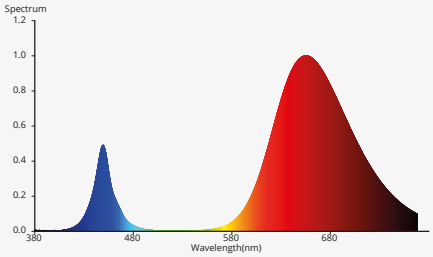
Product specifications

Lighting Group	General Cultivation
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	3,0 µmol/s/W'a kadar
Thermal Management	Passive
Input Voltage	220V A.C
Output	600W
Max. Ambient Temperature	35C°
Product Dimensions	620 mm x 810 mm x 75 mm
Angle Of Light	120
Type of Installation	Surface Mount
Weight	12 kg
Protection Class	IP20
Average Lifetime	L90 B50 > 30,000 hour
Average Lifespan	>%90

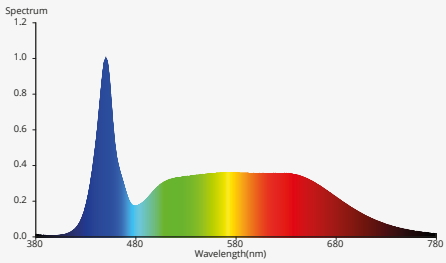
The HOG Light product provides the ideal growing light in the light distribution defined as fullspectrum. In addition, it provides time advantage during the development periods of the plant with the spectrum variations defined in the product.



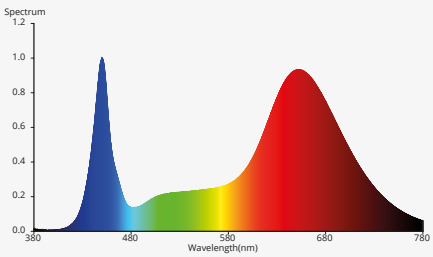
SP - 1 FULL WHITE



SP - 2 FULL GROWTH



SP - 3 BALANCED GROWTH



SP - 4 STRONG GROWTH

HPS
Toplight

The product, which has a value of 1000 Watt and has been used as supplementary lighting in greenhouses for a long time, is a dominant product in the market with its ideal optical distribution and cost advantage.

SHELF SAVING

SAVING ELECTRICITY

General Cultivation

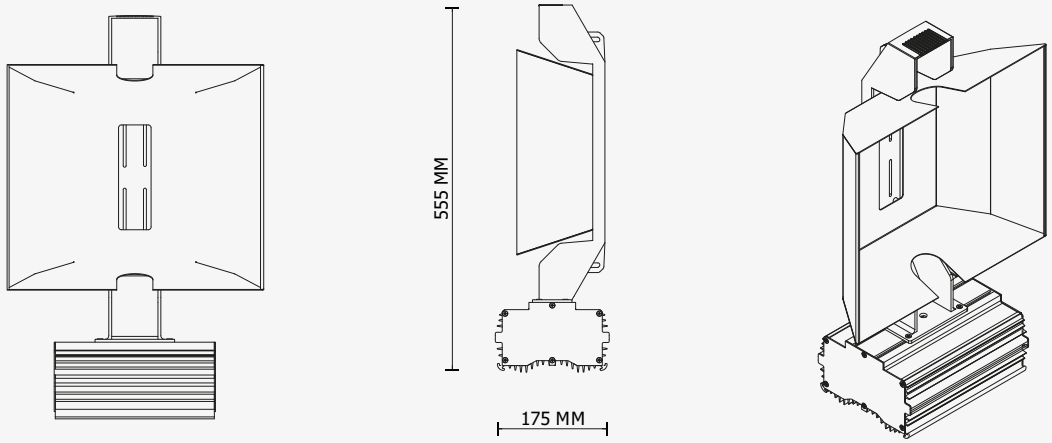
IP Protected Connector Connections

Homogeneous Light Emission with High Reflection Reflector Structure

IP65 Aluminum Body Structure for Control Device

Dimmable 1-10V DALI or PUSH

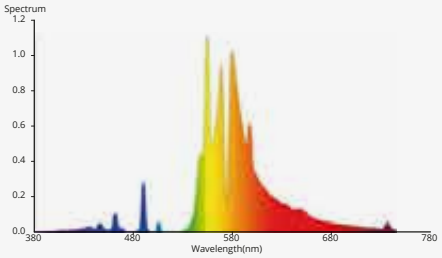
Product Dimensions



Product specifications

Lighting Group	General Cultivation
Light Source	HPS Bulb
Effect	Until 1,7 µmol/s/W
Thermal Management	Passive
Input Voltage	400V A.C
Output	1000W
Max. Ambient Temperature	35C°
Product Dimensions	555 mm x 315 mm x 165 mm
Angle Of Light	120
Type of Installation	Surface Mount
Weight	4 kg
Power Factor	>%90

Our product, which is a pioneer in october lighting with its bulb and ballast version that differs according to the project, is preferred in projects with its compact design and ease of application.



Led Toplight V1

LED Toplight greenhouse is designed to be used in october lighting applications, replacing existing HPS systems with LEDs, or a new application. Due to the high light output (2500 µmol/s), it improves crop quality and annual crop yield.

SHELF SAVING

SAVING ELECTRICITY

IP 65

2,9 µmol

General Cultivation

1740 µmol/s
up to the Luminous Power

120°- 90°- 60°
Options

Power Density up to 600W

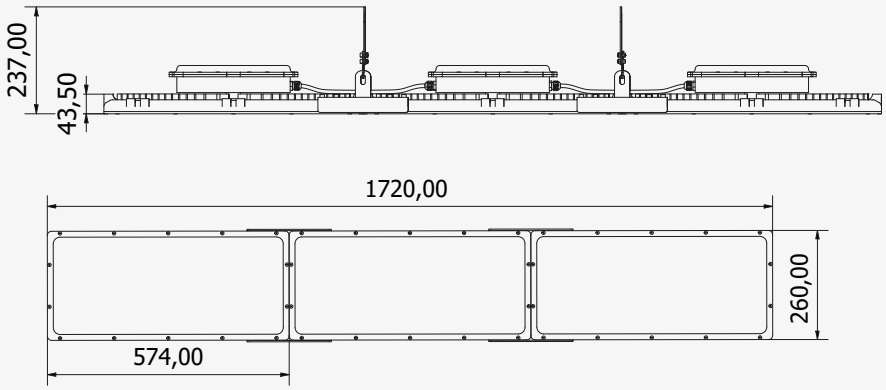
Power Density
up to 600w

Customizable Spectrum Options

Dimmable
10V - 1
THE BRANCH
or PUSH

It can be controlled by optional 2-channel working structure

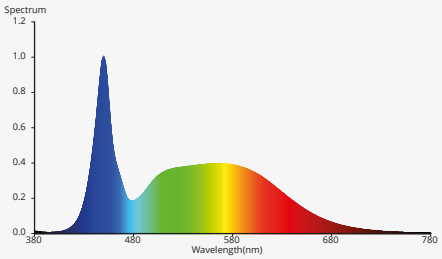
Product Dimensions



Product specifications

Lighting Group	General Cultivation
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	up to 2.9 µmol/s/W
Thermal Management	Passive
Input Voltage	220V A.C
Output	600W
Max. Ambient Temperature	35C°
Product Dimensions	
Angle Of Light	120 - 90 - 60
Type of Installation	Surface Mount
Weight	22 kg
Protection Class	IP65
Average Lifetime	L90 B50 > 30,000 hour
	>%90

LED Toplight product is used on many crops; vegetables, fruits, cut flowers. In addition to the fact that the product has a standard growing spectrum, it can also provide plant-specific, special spectra. Thanks to the product that can be used with automation systems according to preference, it offers flexibility to the user during the growing period.



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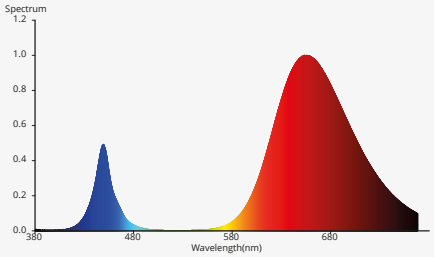
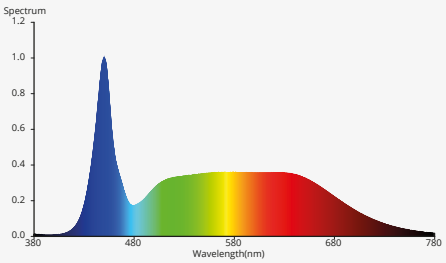
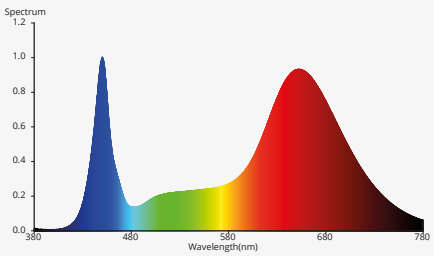


SP - 2 FULL GROWTH



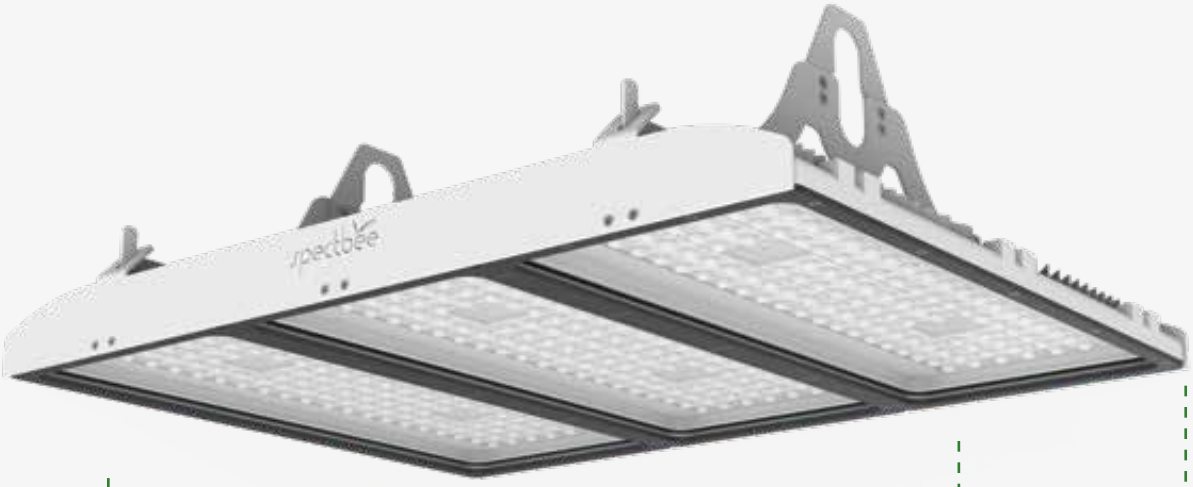
SP - 3 BALANCED GROWTH



SP - 4 BALANCED GROWTH

Led Toplight - v2

LED Toplight V2 is designed to be used in greenhouse october lighting applications, replacing existing HPS systems with LEDs, or a new application. Due to the high light output (2500 µmol/s), it improves crop quality and annual crop yield.



General Cultivation

1740 µmol/s up to the Luminous Power

Wide Optical Characteristic **(120D)**

Power Density up to 600W

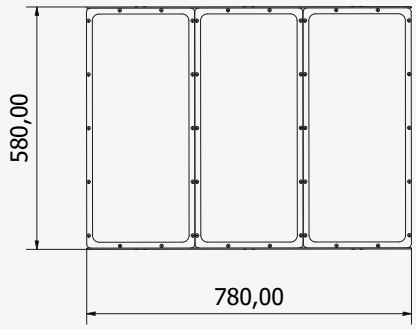
For Low Thermal Stress External Power Supply

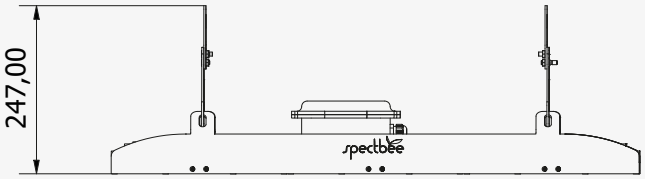
Customizable Spectrum Options

Dimmable 1 - 10V THE BRANCH or PUSH

It can be controlled by optional 2-channel working structure

Product Dimensions

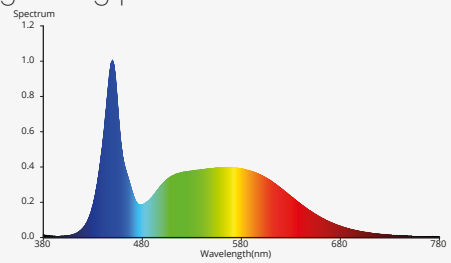




Product Specifications

Lighting Group	General Cultivation
Light Source	Led
Spectrum	Broadband, Narrowband and Can be Customized
Effect	2,9 µmol/s/W'a kadar
Thermal Management	Passive
Input Voltage	220V A.C
Output	600W
Max. Ambient Temperature	35C°
Angle Of Light	120
Type of Installation	Surface Mount
Weight	22 kg
Protection Class	IP65
Average Lifetime	L90 B50 > 30,000 hour
Power Factor	>%90

LED Toplight product is used on many crops; vegetables, fruits, cut flowers. In addition to the fact that the product has a standard growing spectrum, it can also provide plant-specific, special spectra. Thanks to the product that can be used with automation systems according to preference, it offers flexibility to the user during the growing period.



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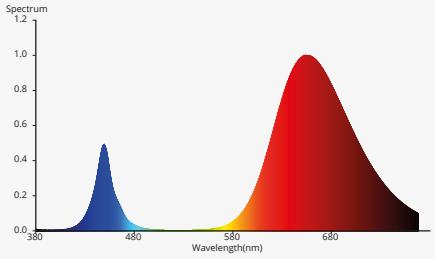
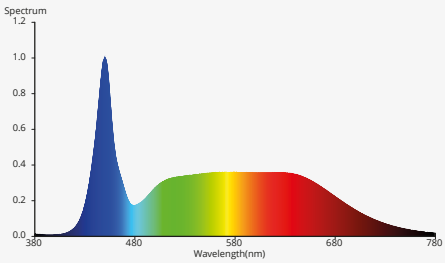
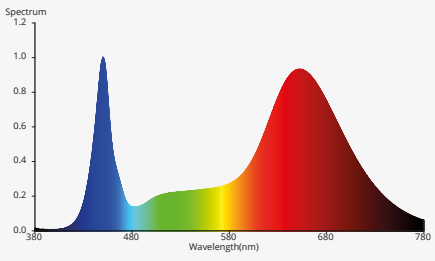


SP - 2 FULL GROWTH



SP - 3 BALANCED GROWTH



SP - 4 STRONG GROWTH

INDOOR
GARDEN KIT

Designed for home and restaurants; With a growing cabinet, it allows you to present many products to your table in the freshest form.

Excellent greens are obtained with high-quality LED chips, ideal photosynthesis conditions with full spectrum.

It has a special design with a static painted aluminum body, a stainless water tank and a wooden structure.
5 Plants can be grown at a time.

All you need is feeding and growing in accordance with the user manual in a suitable environment; you can get a crop from seed to vegetable within a month.


Laurel Leaf


Dill


Basil


Spinach


Lettuce


Parsley


Mint

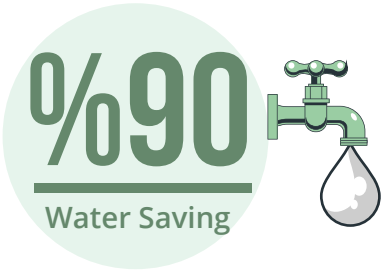

Arugula

You can grow table greens and your favorite plants, observe the growth process.

Using hydroponic cultivation technology and automatic water circulation system, the cultivation of table greens has been minimized.

GROWING CABIN

You can grow and easily harvest fresh table greens for your family in your kitchen or for your customers in your restaurant every day of the year.



With high quality stainless water tanks, it is long lasting and healthy. Spectbee Growing Cabin takes care of nature and the future by saving 90% water.


Laurel Leaf


Dill


Basil


Spinach


Lettuce


Parsley


Mint


Arugula

Adapt to your decoration enabling design

Adapt to your decoration activating the design

Minimum energy consumption, high efficiency

CONTAINER PROJECT

Stay tuned for the story of the transformation of a scrap 40-container structure into a modern aquaculture platform

As SPECTBEE, we started the design and production process of the first container-type production station for commercial and scientific cultivation in August 2020.

A fully autonomous system will be established within the 40' HC container structure developed as a high-tech modern cultivation platform and EBB and NFT based cultivation will be able to be carried out. It is planned to start production of the developed container system by November 2020.

What you will gain when growing with Spectbee Container:

- 90% less water consumption
- Use of automation for optimization
- Controlled Crop Harvesting
- The possibility of receiving the same type of product at any time of the year
- Providing logistic advantage
- Non-use of pesticides
- 8 Times compared to normal agricultural practices getting more harvest


spectbee

GROWING PRODUCTS

"As Spectbee, not only product sales are carried out with our container product, but also cultivation support is provided to the user in all its processes and continuous system support is provided according to the needs of the customer."



	Normal Agriculture	Greenhouse	Spectbee Container
Annual Production	No (Season)	Differences According to Climate	Yes
Guaranteed Purchase of Products	No	No	Yes
Agrochemicals	Yes (Uncontrolled)	Yes (Controlled)	No
The Harvest Cycle	1- 2	6	9+
Annual Harvest	2,25 kg/m2 (marul)	12,5 kg / m2	79 kg / m2
Water Consumption	270 lt / m2	320 lt / m2	27 lt / m2
Distribution	Complex and Inefficient	Complex and Inefficient	Simple and Close to the Customer

In the face of our increasingly depleted resources, we aimed to make a useful application by using many products that are considered worthless in different fields.

The targeted scrap here is the transformation of a container structure into a modern aquaculture platform.

As Spectbee, our product for commercial and scientific cultivation purposes has become an advanced structure in which hydroponic farming applications can be carried out with EBB and NFT type systems, all automation system controls can be performed, remote monitoring and control has a chance. Our product has passed many tests and has also been used in University research.

Company
Ankafar

Sector
Agricultural Biotechnology

Crop
Orchids, Petunias, Geraniums

Area
Ankara, Etimesgut

Solution
Spectbee

Ankafar preferred Spectbee T-Led in Tissue Culture production.

Ankafar, which develops innovative agricultural practices with biotechnology, has used Spectbee lighting solutions in Tissue Culture studies. Thanks to advanced radiometric and photometric tests, Ankafar grows efficient and high-standard products with the specific type and level of light needed by the grown product and light systems designed specifically for the application area.

SHELF SAVING

SAVING ELECTRICITY

ENERGY SAVING

Company
Aqroinnova

Sector
Greenhouse

Crop
Tomato

Area
Baku, Azerbeycan

Solution
Spectbee

Aqroinnova preferred Spectbee products in its production.

With the application of LED lighting in the tomato greenhouse, which is built on an area of 5 hectares in Baku, an increase in the quality of tomatoes and the crop crop has been achieved.

SHELF SAVING

SAVING ELECTRICITY

ENERGY SAVING

Company
Serakule

Sector
Container Farm

Crop
Strawberries, Lettuce

Area
Bursa

The Area
Spectbee

Serakule preferred Spectbee products in its production.

SERAKULE ® technology provides fresh, nutritious, chemical-free, healthy products, allowing them to start producing vegetables almost anywhere, even in the attic. Due to its VERTICAL design, the system is highly efficient in terms of space and energy.

SHELF SAVING

SAVING ELECTRICITY

ENERGY SAVING

Company
Mamak Greenhouse Project

Sector
Agricultural Biotechnology

Crop
Orchids, Petunias, Geraniums

Place
Ankara

Solution
Spectbee

Mamak preferred Spectbee products in the production of the Greenhouse Project.

Mamak Greenhouse Project, implemented in Ankara Mamak with the Ankara Solid Waste Management Project, our spectbee lighting fixtures used in hydroponic agriculture areas benefit from the cultivation of crops with high yield and quality.

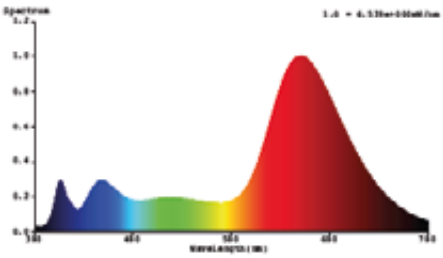
SHELF SAVING

SAVING ELECTRICITY

ENERGY SAVING

SPECTRUM PREFERENCES

FULL SPECTRUM OPTIONS



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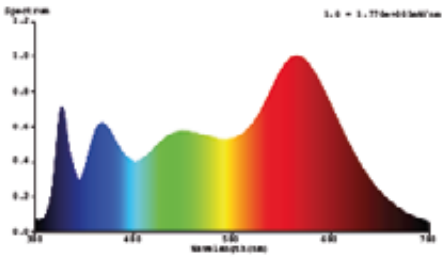

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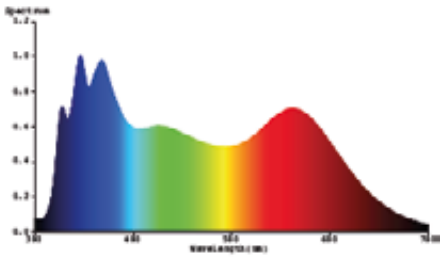

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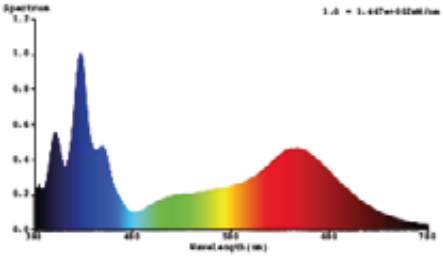

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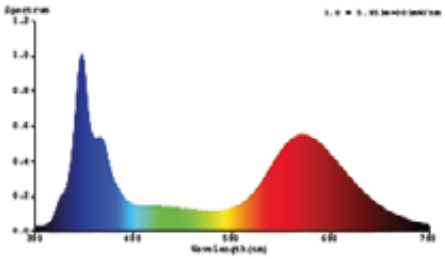
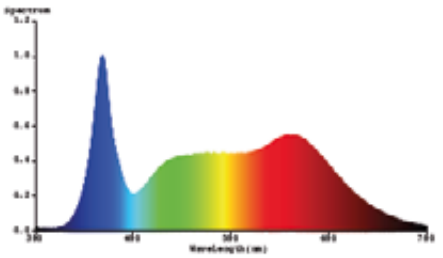


TYPE 5

WIDE BAND GROW SOLUTIONS



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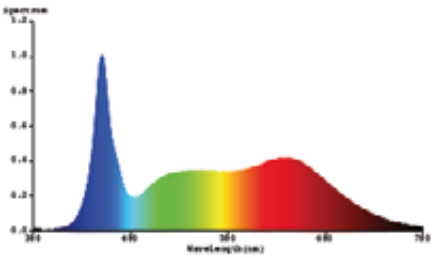

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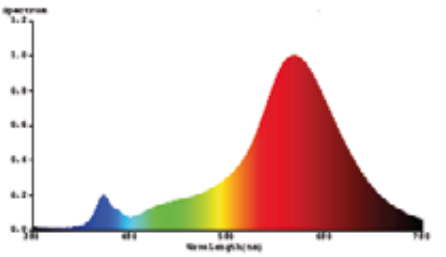

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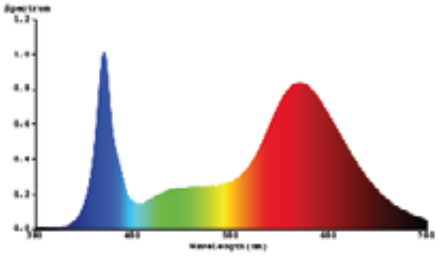
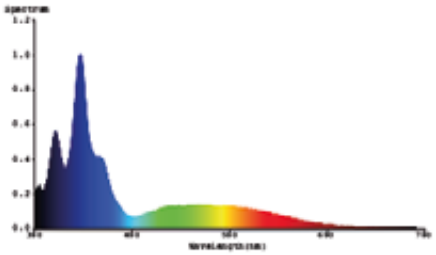


TYPE 4

COMBINED GROW SOLUTIONS



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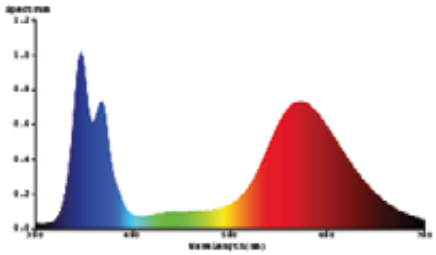

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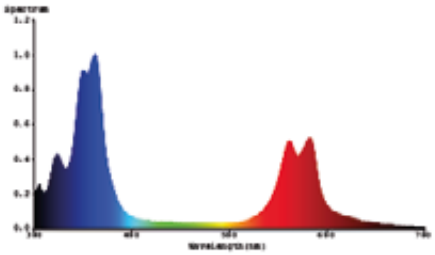

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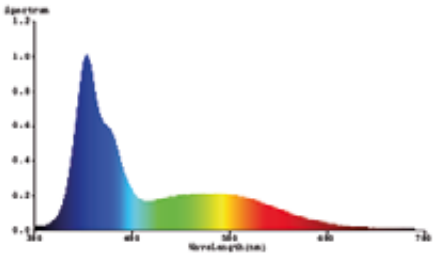

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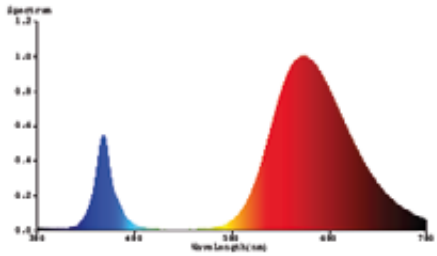

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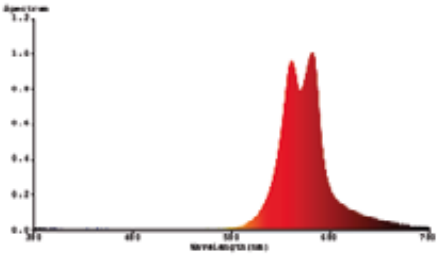
SW - LW ENHANCERS



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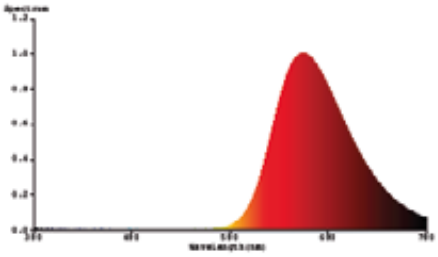

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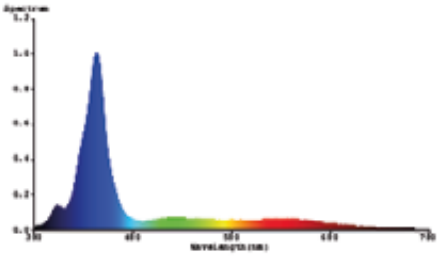

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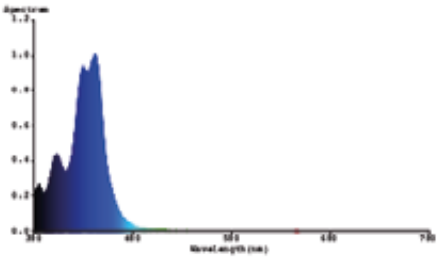
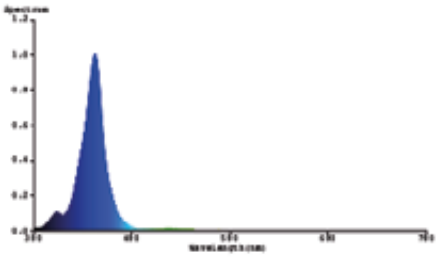
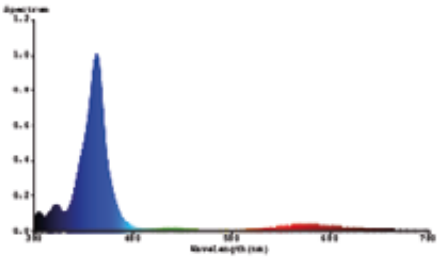
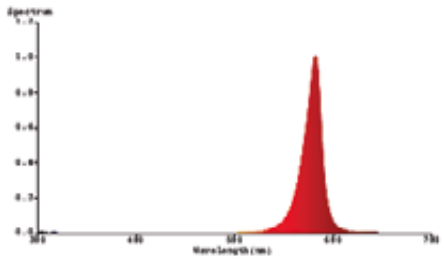






MONOCHROMATIC



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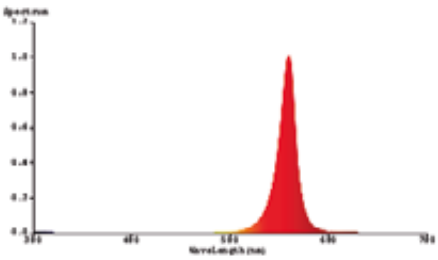

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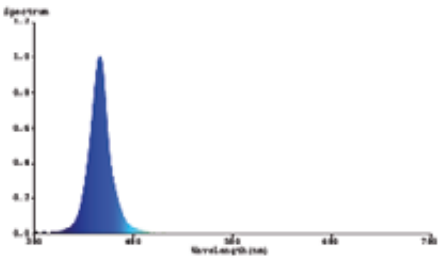

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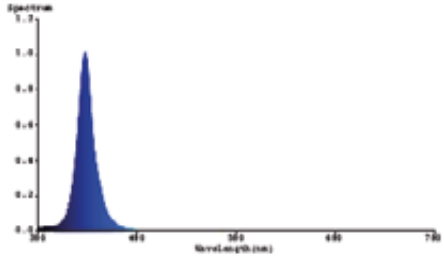

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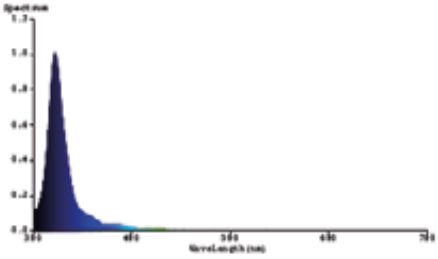

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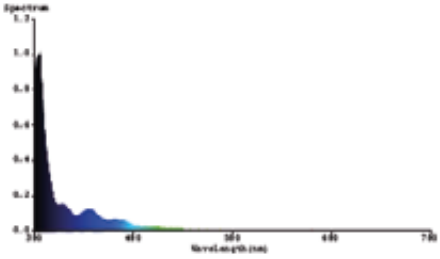
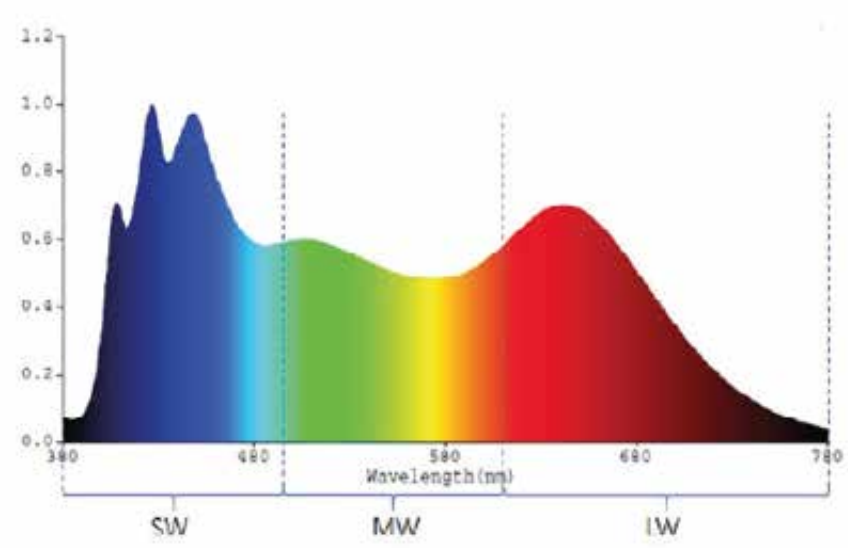


TYPE 6

CONTROL SYSTEMS



•DALI compatible controller and interface

• Fully configurable system

monochromatic and/or broadband spectrum control for up to 16 channels

• Dynamic PPFD control (0-100%)

• Timeline function (For both spectrum and PPFD)

• 3 band DLI and PPFD control options (SW, MW and LW)

• Individual or group based control

• User-friendly and specially designed interface

Individual address control up to X

• Can be controlled via smart devices

CERTIFICATES

UNICERT
ISO 9001:2008

RoHS
2002/95/EC

UNICERT
OHSAS 18001

TSE

UNICERT
ISO 14001

CE

REFERANCES

petektar tohumculuk

Grow Fide

esde

BIOTEK BIOTECHNOLOGY Agriculture and Plant Products

biyofidan

SU DA TARIM

SERA MEKATRONİK

DORU FİDE

SİPAHİOĞLU FİDANCILIK

SERAKULE

AQROINNOVA

BAHAR
LIGHTING

Bahar Lighting Inc.

Factory

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