PRODUCT TECHNICAL DATA SHEET

300-600W

PLANT GROWTH FIXTURES

www.secol.com.tr
+90 224 443 05 84

Revision Date: 04/02/2025



Features

High Power Plant Growing LEDs
Long Working Life
Dimmable Luminous Flux
Energy Saving
120° Light Angle
Environmentally Friendly

Areas of Use

Natural light is often insufficient for crop growth and development. With SECOL professional LED plant growth lighting, you can achieve better results by controlling many aspects of crop growth. Whether in a greenhouse or

Whether it is vertical farming or other indoor plant production of vegetables, fruits or flowers, we offer the best LED grow lights for your crop. Our tried and tested LED grow lights will help you increase the yield, quality and consistency of your crops.

SECOL plant lighting is specially designed for cultivators growing on benches or tiered shelves. The plant grow light is the ideal solution for commercial plant growing facilities and smaller growing areas.

We reserve the right to change everything written in the catalog. It cannot be used or changed without permission.

www.secol.com.tr
+90 224 443 05 84

Revision Date: 04/02/2025

Electrical Properties

GL-300

Item	Spec.	Symbol	Min.	Avg.	Max.	Unit
AC Input Voltage 50/60Hz		Vin	120	230	277	V AC
Peak Wavelength		CCT	450	608	660	nm
AC Input Power*		P	280	300	320	W
Light Output		PPF	800	850	900	µmol /s
Efficacy			2.70	2.65	2.60	µmol /j
Led Distribution				120		Degree
Thermal Management	Passive					
Dimming	1/10					V
Mounting Height Above Plant			0.5	3	5	M

GL-600

Item	Spec.	Symbol	Min.	Avg.	Max.	Unit
AC Input Voltage 50/60Hz		Vin	120	230	277	V AC
Peak Wavelength		CCT	450	608	660	nm
AC Input Power*		P	560	600	640	W
Light Output		PPF	1600	1700	1800	µmol /s
Efficacy			2.70	2.65	2.60	µmol /j
Led Distribution				120		Degree
Thermal Management	Passive					
Dimming	1/10					V
Mounting Height Above Plant			0.5	3	5	M

We reserve the right to change everything written in the catalog. It cannot be used or changed without permission.

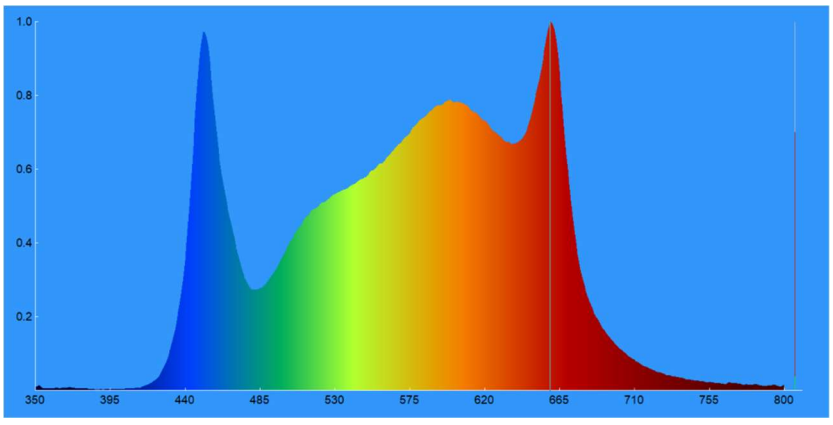
www.secol.com.tr
+90 224 443 05 84

Revision Date: 04/02/2025

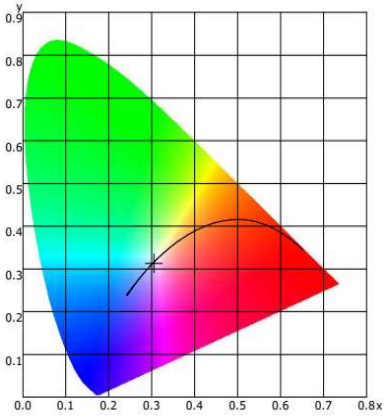
Code	Power (W)	Voltage (V AC)	Frequency (Hz)	Current (A)	DIM*
GL-300	300	220	50	1.4	0-10V
GL-600	600	220	50	2.8	0-10V

* Alternatively Isolated 1-5V/1-10V/10V PWM/3-Time Dimmable.
** You can contact our company for your requests regarding light values.
*** CCT values can be produced between 2500K - 25000K upon request.
Values in the table may vary depending on product strengths and colors.

Unless otherwise stated in electrical connections, connections are made according to the following colors.
Brown : L (Phase)
Blue : N (Neutral)
Yellow/green : Grounding
Purple : Dim +
Pink : Dim –
Black/white : Programming



Spectrum Curve



CIE Coordinate

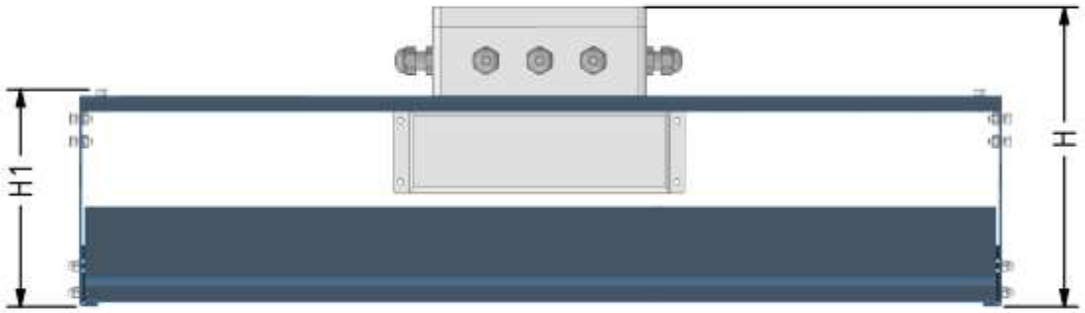
Note: Light spectrum may vary depending on CCT value. 730 nm is added for special applications.

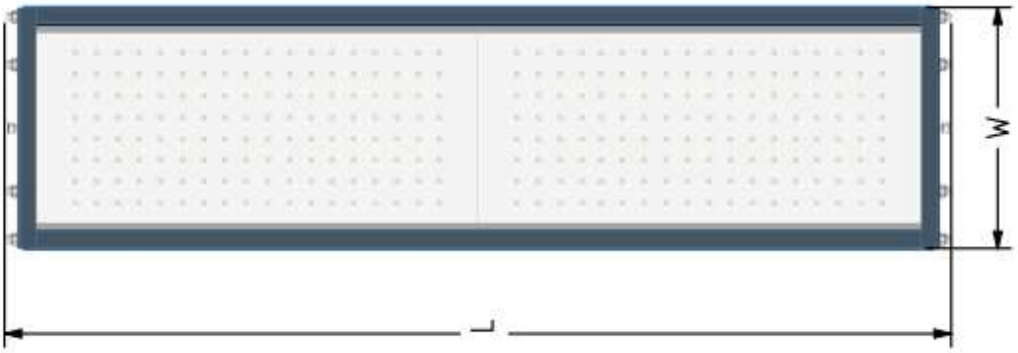
We reserve the right to change everything written in the catalog. It cannot be used or changed without permission.

www.secol.com.tr
+90 224 443 05 84

Revision Date: 04/02/2025

Mechanical Dimensions





CODE	H	H1	W	L
GL-300	224	160	180	377
GL-600	224	160	180	707

Dimensions are given in mm. Tolerance +/- 1 mm

We reserve the right to change everything written in the catalog. It cannot be used or changed without permission.

Mechanical Properties

Body Type : Aluminum Extrusion, cataphoresis painted, IP 65

Body Color : RAL 7016 Anthracite Glossy Grey, RAL 9005 Glossy Black

Windshield : 4mm

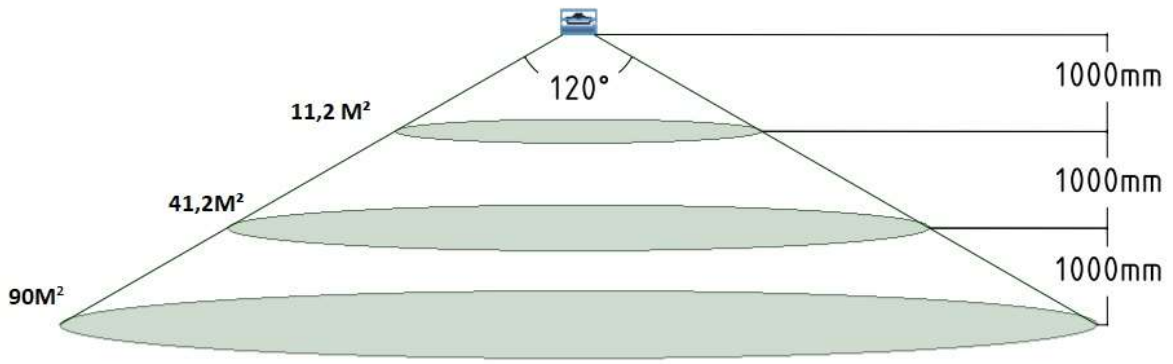
Recommended ambient temperature : +25 ° C

It is suitable for outdoor use.

It can be manufactured in different powers. In this case, there will be changes in dimensions.
It is suitable for alternative connection by making changes in the suspension section.

Assembly

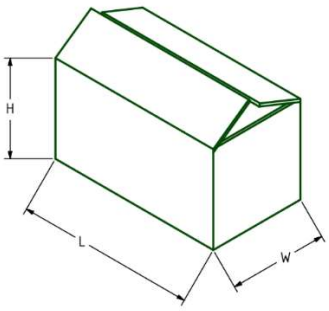
- It is recommended that the product be installed with a minimum clearance of 30 cm on all sides.
- The assembly is done through two oval holes of 10mm diameter and 30mm length located on the handle.
- It is recommended to use at least 2 Metric 8 (M8) screws for the connection.
- The lighting angle of the product can be adjusted using the handle adjustment screws.
- All screws should be tightened securely using appropriate wrenches.
- At least 1.5 mm² cable must be used for electrical connections and a grounding connection must be made.
- The seal and cover of the electrical junction box should be tightened appropriately.
- Cable glands should be tightened after connection to prevent water passage.
- A 100K ohm potentiometer is recommended for light adjustment (DIM).
- Maximum light output is achieved when the + (positive) and – (negative) ends are left open, and minimum light output is achieved when short-circuited.
- The lighting light output angle is 120° (Degrees) in all directions. The recommended installation height is 3 meters.



Lighting area

We reserve the right to change everything written in the catalog. It cannot be used or changed without permission.

Packaging



CODE	L cm	W cm	H cm	PRODUCT WEIGHT Kg	TOTAL WEIGHT kg
GL-300	41	24	25	7.5	8
GL-600	73	24	24	13.5	14

Note: Each fixture is packaged in a single box. Total weight includes box and 1 fixture.

Cautions

- A cable with a cross section of at least 1.5 mm² and a grounding connection must be used for the energy connection. Unless otherwise stated on the luminaire label, the supply voltage must be 220V AC / Frequency must be 50 Hz.

- Energy and internal connections are inside the terminal box located on the top of the luminaire.

- It can be used on wet surfaces. In case of improper connection and/or direct contact of the energy connection point with water, electric shocks may occur.

- Since the front part is glass, it may break when subjected to impact, and broken pieces may cause cuts, injuries or other hazards.

- The holes on the handle must be used for product assembly. The holes on the side covers of the product are also suitable for assembly purposes. These holes are also used for safety wire connection.

We reserve the right to change everything written in the catalog. It cannot be used or changed without permission.