



# HORTICULTURE LIGHT

**Greenhouse**

**Indoor**

**Vertical Farming**

**Catalogue**



## About INLEDCO

Your engineering and production partner to realize your lighting and digital ideas according to the market needs. Full service for your successful business to be ahead of technology. We offer a fully equipped light and electronic laboratory as well as 3D Scanners and Printers. FTL spectrum to LED copy service by spectral analyse.

Targeted on lighting and components inledco becomes the leading manufacturer for specialized lighting applications, now in the 10th year and pioneered the LED technology since 2008 Starting from 2014 with remote LED controlling we have developed a separate full 5 people engineering team just focusing of state of the art light controlling and development with all kinds of production and testing in house facilities.

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## Content

### Greenhouse

GrowConnect Top 316  
GrowConnect Inline 298  
GrowGo Bulb 320

### Indoor

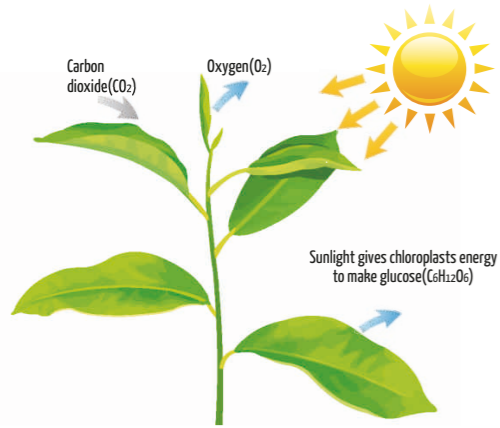
GrowConnect Top 231  
GrowConnect Top 336

### Vertical Farming

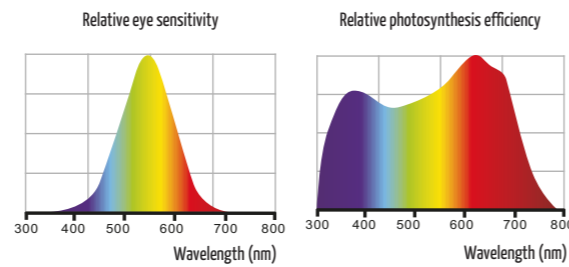
GrowGo T8 Flex 315  
GrowGo Grid 301

### High Power

GrowLite Series

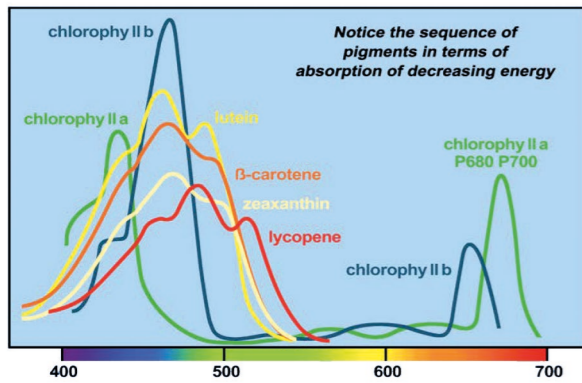


Photosynthesis is the basic process that leads to growth of a plant and light is an essential part of this. This energy is used to form glucose from carbon dioxide gas (CO<sub>2</sub>) and water, which are taken up by leaves and roots.

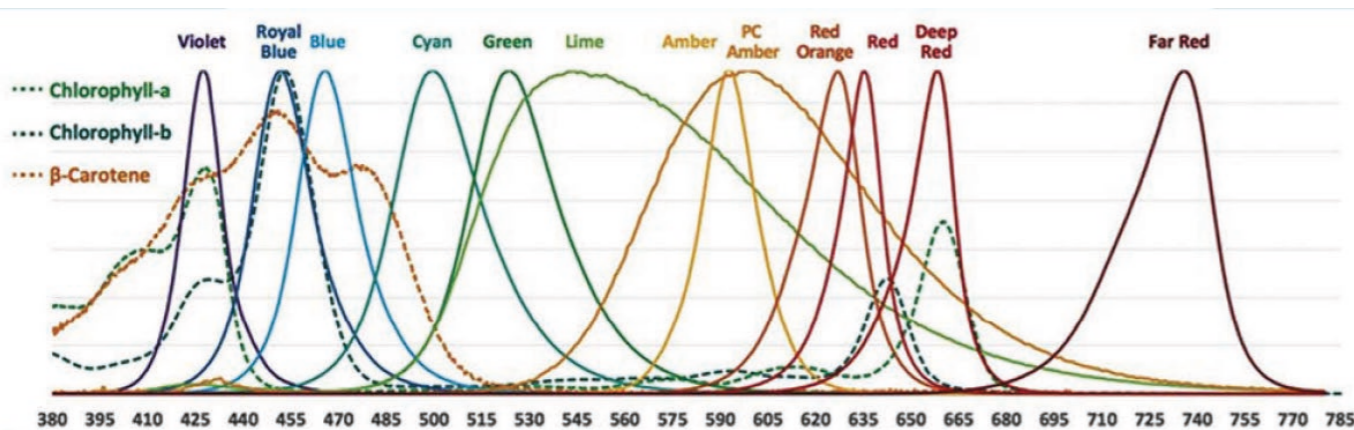


Plants have a completely different sensitivity to light colors than humans. With regard to plant growth, light is defined in terms of small particles, also called photons or quantum. The energy content of photons varies, depending on wavelength (light color spectrum).

The plant has also various sensitivity for various colors of light, and that influences different light-sensitive activities as well. Using the efficient light sources for plants, effective light recipes are important to obtain the optimal results in plant production.



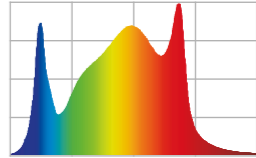
Chlorophyll absorption peaks are:  
 430 and 453nm (Blue) and 642 and 662nm (Red)  
 415 to 470nm: (Royal Blue) Inducing Intensive photosynthesis for strong vegetative root growth, particularly roots and leaves in the early phases when flowering is not desired.  
 420 to 480nm: (Blue) Strongest absorption of beta-carotene, for optimum red-orange pigment (ie in tomatoes)  
 500to 620nm: Some plants also absorb Cyan, Green and Orange light allowing them to develop additional pigments to compensate for low light conditions.  
 640 to 670nm: (Deep Red) Speeds up seed germination and encourages stem growth.  
 660 nm: Critical for flowering and fruit production, Increasing yield and vitamin C content.  
 730to 740nm: (Far Red) Controls the Internal clock of plants (photoperiodic). For example, some crops will cease production in response to shortening days.



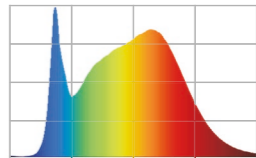
## OUR BASIC SPECTRUM

- Natural1

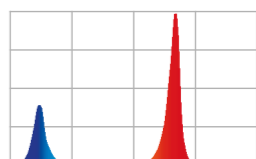
Wide sun-like spectrum, tailored for growing plants from seeding to reproduction.


- Seeding1

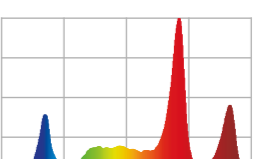
Enhanced blue region, suitable for germination to seeding stage.


- General1

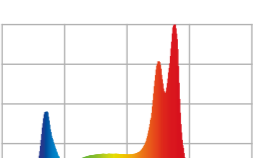
Contain blue light and high proportion of red light.


- Flower1

With far-redlight, contribute to the flowering.


- Reproduction1

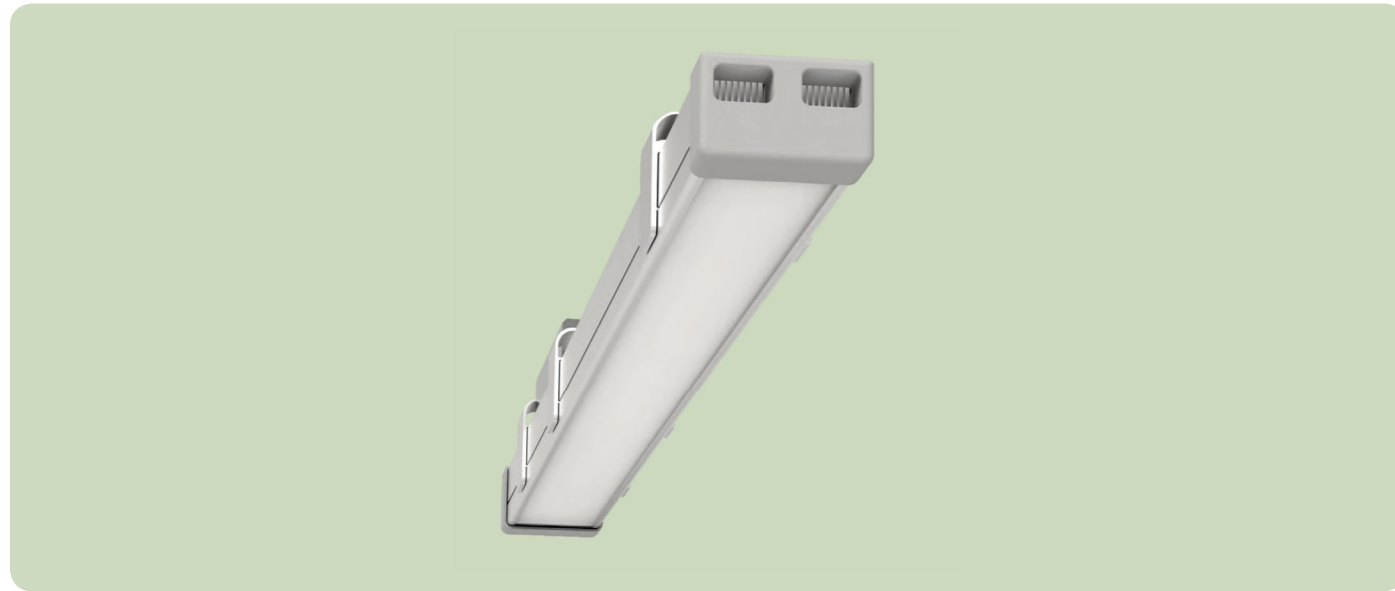
Contains higher proportion of redlight, promote reproductive growth.



## LINEAR PRODUCT RANGE

Application	Greenhouse			Indoor			Vertical Farming	
Products								
Name	GrowConnect Top 316	GrowConnect Inline 298	GrowGo Bulb 320	GrowConnect Top 231	GrowConnect Top 231	GrowConnect Top 336	GrowGo T8 Flex 315	GrowGo Grid 301
Plant	Vegetables Herbs, Flowers Cucumbers Tomatoes Bellpepper	Cucumbers Tomatoes Bellpepper	Flowers Strawberries	Exotic Plants Flowers Succulents Orchids Tillandsia Bromelia	Exotic Plants Flowers Succulents Orchids Tillandsia Bromelia	Exotic Plants Flowers Succulents Orchids Tillandsia Bromelia	Vegetables Herbs	Vegetables Herbs
Input Power	230w	60w	14w	65w	130w	130w	30w	150w
Efficiency	2.1 μmol/J 2.3 μmol/J	1.7 μmol/J 2.4 μmol/J	2.2 μmol/J	2.0 μmol/J	1.8 μmol/J	2.0 μmol/J 2.2 μmol/J	1.7 μmol/J 2.1 μmol/J	2.2 μmol/J
Spectrum	Natural1 General1	Reproduction1 General1	Flower1	Natural1	Natural1	Natural1	Natural1 Seeding1	Natural1
Certificate	CE	CE	CE	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE	CE	CE

# GrowConnect Top 316



## Description

General Greenhouse lighting application. Full cycle spectrum optimized for rapid growth and complete plant growth.

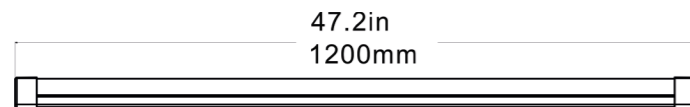
Suitable for a wide range of horticulture lighting applications.

## Dimensions

1200x83x53 mm

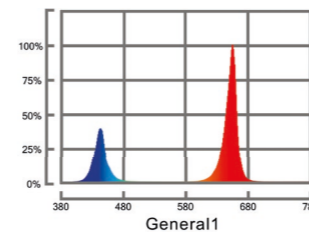
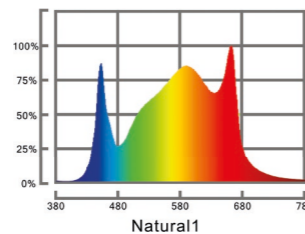
## Installation

- suspending
- ceiling mounting



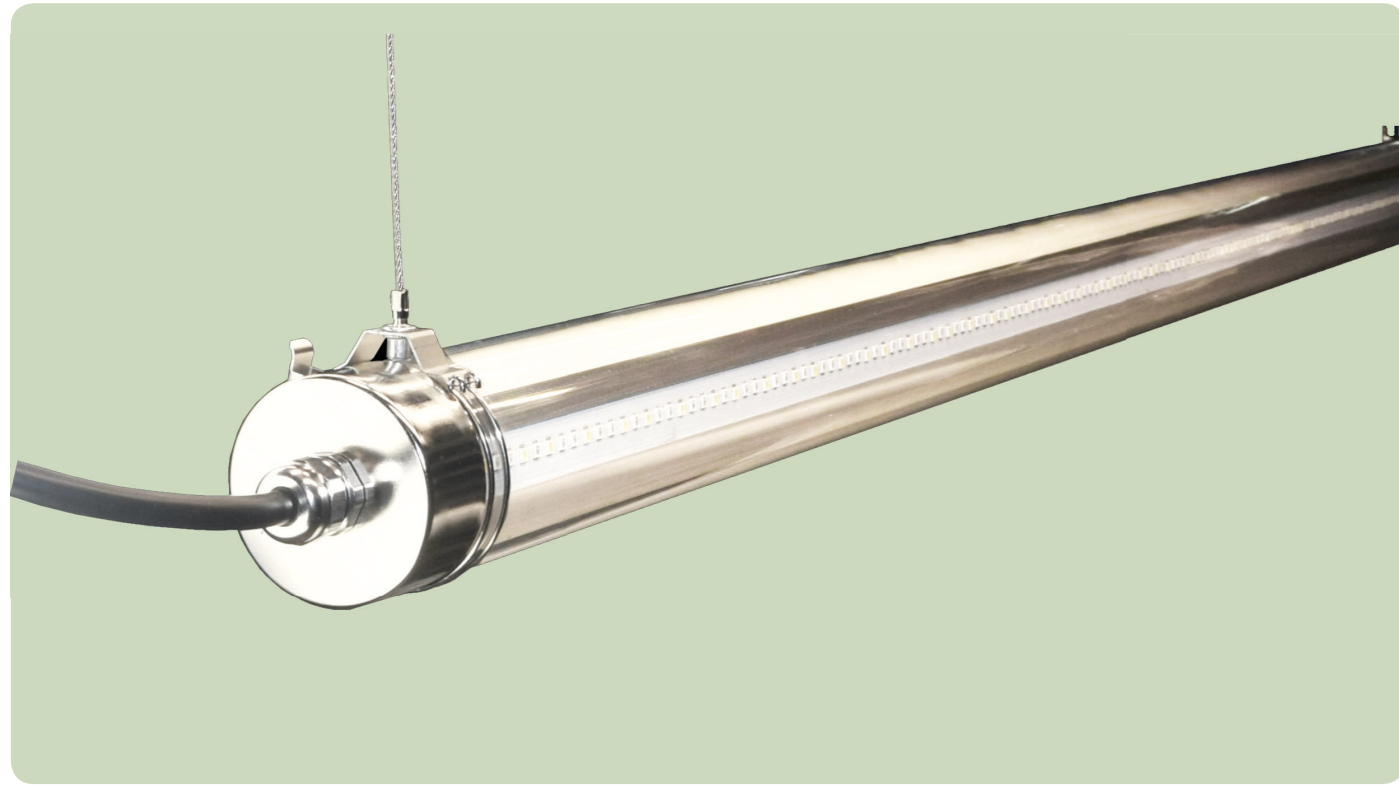
## Specifications

Product Code	316-0001	316-0003
Input Power	230 W	230 W
Input Voltage	100-277 V	100-277 V
Efficiency	2.1 µmol/J	2.3 µmol/J
Beam Angle	90° / 120°	120°
PPF	506 µmol/s	552 µmol/s
Weight	5,8 Kg	5,8 Kg
Spectrum	Natural1	General1



ITEM	SPECIFICATION	DETAILS	DETAILS
GENERAL	Project Code:	316	316
	Product Name:	GrowConnect Top	GrowConnect Top
	Product Code:	316-0001	316-0003
	Size (LxWxH) mm:	1200x83x53mm	1200x83x53mm
	Cover Type:	Clear	Clear
	Cover Material:	PMMA	PMMA
	Body Color:	Silver	Silver
	Body Material:	Aluminium	Aluminum
	Surface Finish:	Oxidation	Oxidation
	Protection Class:	Class I	Class I
	IP Level:	66	66
	Socket / Connection Cable Type:	Square	Square
	Efficiency(µmol/J):	2,1	2,3
	PPF(µmol/s):	506	552
	Beam Angle:	90°/120°	120°
Light Color K/ nm:	3800K	----	
CRI:	>90	----	
LED Supplier:	SAMSUNG	OSRAM	
LED Type:	2835 0.5W 4000K+660nm	OSLON 3030 660nm+460nm	
LED Quantity:	1140pcs	360pcs	
ELECTRICAL	Driver (Brand and Specs):	INVENTRONICS EUK-240W	INVENTRONICS EUK-240W
	Power Supply Internal/External:	External	External
	Size if External:	233x67.5x39.7mm	233x67.5x39.7mm
	Input Power:	230W	230W
	Input Voltage:	100-277V	100-277V
	Frequency:	50/60Hz	50/60Hz
	THD:	<20%	<20%
	PF:	>0.9	>0.9
	Interconnectable(Yes/No):	No	No
	CONTROL	Dimmable (Yes/No):	Yes
Dimming Type:		1-10V	1-10V
PHYSICAL	Cooling Type Passive/Active:	Passive	Passive
	Environment Temperature:	-20 to 40 °C	-20 to 40 °C
	Tc Lamp Body Temperature:	75 °C	75 °C
	Weight per.Piece:	5,8 Kg	5.8 Kg
	Weight per unit:	5,8 Kg	5.8 Kg
	Quantity Per Packing Unit:	4	4
	Box Size Per Packing Unit:	1250x360x350mm	1250x360x150mm
	Box Weight Per Packing Unit:	24 Kg	24 Kg
CERTIFICATION	Certificates:	CE	CE
	Lxx/Bxx:	L80/B20 40.000h	L90/B10 50.000h
	Lifetime Hrs (L70):	>50.000 Hrs	>100.000 Hrs
	Warranty LED/Housing/Driver:	5 years	5 years

# GrowConnect Inline 298



## Description

Greenhouse Interlighting. Full cycle spectrum optimized for rapid growth and complete plant growth as well as optimised spectrums.

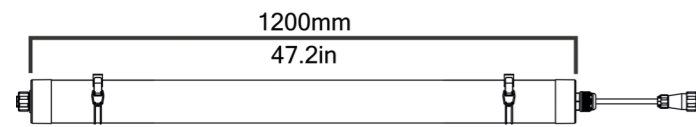
Suitable as additional light for high growing plants and vegetables.

## Dimensions

1200mm x 56mm

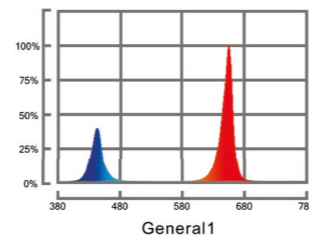
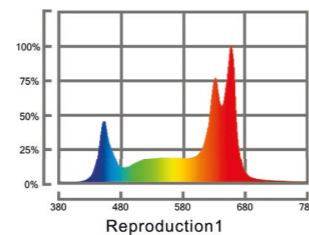
## Installation

- suspending



## Specifications

Product Code	298-0001	298-0005
Input Power	60 W	60 W
Input Voltage	220-240 V	220-240 V
Efficiency	1.7 $\mu\text{mol}/\text{J}$	2.4 $\mu\text{mol}/\text{J}$
Beam Angle	120°	120°
PPF	102 $\mu\text{mol}/\text{s}$	144 $\mu\text{mol}/\text{s}$
Weight	1,7 Kg	1,7 Kg
Dimming	0-10 V	No
Spectrum	Reproduction1	General1



ITEM	SPECIFICATION	DETAILS	DETAILS
GENERAL	Project Code:	298	298
	Product Name:	GrowConnect Inline	GrowConnect Inline
	Product Code:	298-0001	298-0005
	Size (LxWxH) mm:	1200mm Ø56mm	1200mm Ø56mm
	Cover Type:	Clear	Clear
	Cover Material:	PC	PC
	Body Color	Silver	Silver
	Body Material	Aluminum	Aluminum
	Protection Class:	class I	class I
	IP Levels:	65	65
	Housing Type:	Circular	Circular
	Socket / Connetion Cable Type:	Power cable-round-3-pin	Power cable-round-3-pin
	Efficiency( $\mu\text{mol}/\text{J}$ ):	1,7	2,4
	PPF( $\mu\text{mol}/\text{s}$ ):	102	144
Beam Angle:	120°	120°	
Light Color:	----	----	
LED Type:	2835 0.5W	OSLON 3030	
LED Quantity:	320pcs	150pcs	
ELECTRICAL	Driver (Brand and Specs):	INLEDCO LD284 65W	TRIDONIC LC 71W
	Power Supply Internal/External:	Internal	Internal
	Input Power:	60W	60W
	Input Voltage:	220-240V	220-240V
	Frequency:	50/60Hz	50/60Hz
	THD:	<15%	<15%
	PF:	>0.9	>0.9
	Interconnectable(Yes/No):	Yes	Yes
	By Max Power:	----	----
	By Max Quantity:	----	----
CONTROL	Dimmable (Yes/No):	Yes	No
	Dimming Type:	0-10V	----
PHYSICAL	Cooling Type Passive/Active:	Passive	Passive
	Environment Temperature:	-20 to 40 °C	-20 to 40 °C
	Tc Lamp Body Temperature:	75 °C	75 °C
	Weight Per.Piece:	1.7Kg	1.7Kg
	Weight Per Unit:	1.7Kg	1.7Kg
	Quantity Per Packing Unit:	20pcs	20pcs
	Box Size Per Packing Unit:	1300x360x315mm	1300x360x315mm
	Box Weight Per Packing Unit:	35Kg	35Kg
	Accessories Included:	----	----
	Accessories Additional Available:	Ceiling Mounting Kits, Suspending Kits	Ceiling Mounting Kits, Suspending Kits
CERTIFICATION	Certificates:	CE	CE
	Lxx/Bxx:	L80/B20 40000h	L90/B10 50000h
	Lifetime Hrs (L70):	>50.000 Hrs	>100.000 Hrs
	Warranty LED/Housing/Driver:	5 years	5 years

# GrowGo Bulb 320



## Description

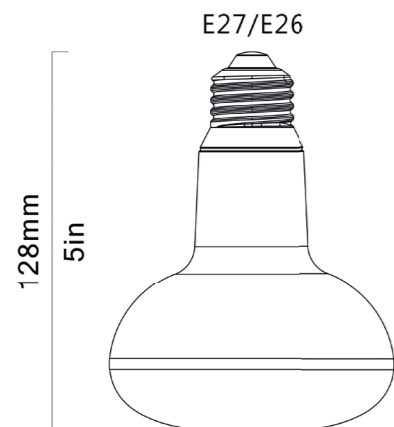
Greenhouse additional lighting to extend the daily natural lighting period.

Cut your energy usage by up to 90% versus incandescent lamps, offers huge energy savings versus halogen and compact fluorescent lamps with a optimised spectrum.

Suitable for Flowers, Bedding Plants, Strawberries.

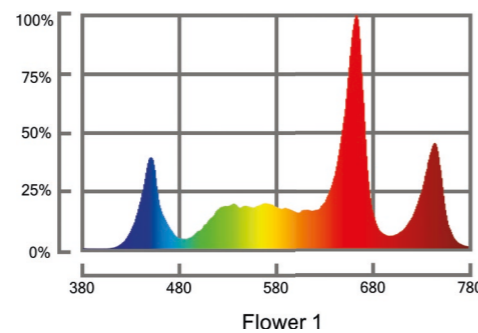
## Dimensions

128 mm Ø 95mm



## Specifications

Product Code	320
Input Power	14 W
Input Voltage	100-240 V
Efficiency	2,2 µmol/J
Beam Angle	120°
PPF	30,8 µmol/s
Weight	0,12 Kg
Spectrum	Flower1



ITEM	SPECIFICATION	DETAILS
GENERAL	Project Code:	320
	Product Name:	GrowGo Bulb
	Product Code:	320-0001
	Size (LxWxH) mm:	Ø 95mm H128mm
	Cover Type:	Frosted
	Cover Material:	PC
	Body Color:	White
	Body Material:	Aluminum
	Surface Finish:	Plastic covered
	IP Level:	44
	Housing Type:	---
OPTICS	Socket / Connetion Cable Type:	E27
	Efficiency(µmol/J):	2,2
	PPF(µmol/s):	30,8
	Beam Angle:	120°
	LED Supplier:	HONGLITRONIC
ELECTRICAL	LED Type:	3535
	LED Quantity:	23pcs
	Power Supply Internal/External:	Internal
	Size if External:	-
	Input Power:	14W
	Input Voltage:	100-240V
	Frequency:	50/60Hz
	THD:	<15%
	PF:	>0.95
	Interconnectable(Yes/No):	No
PHYSICAL	Cooling Type Passive/Active:	Passive
	Environment Temperature:	-10 to 40 °C
	Tc Lamp Body Temperature:	63 °C at 30 °C ambient temperature
	Weight per.Piece:	0.12Kg
	Weight per unit:	0.13Kg
	Quantity Per Packing Unit:	20
	Box Size Per Packing Unit:	640x260x315mm
	Box Weight Per Packing Unit:	2.8Kg
CERTIFICATION	Certificates:	CE
	Lxx/Bxx:	L80/B20 40.000h at 25 °C ambient temperature
	Lifetime Hrs (L70):	>50000 Hrs
	Warranty LED/Housing/Driver:	5years

# GrowConnect Top 231



## Description

Various types of indoor horticulture lighting applications. Natural spectrum optimized for rapid growth and complete plant growth.

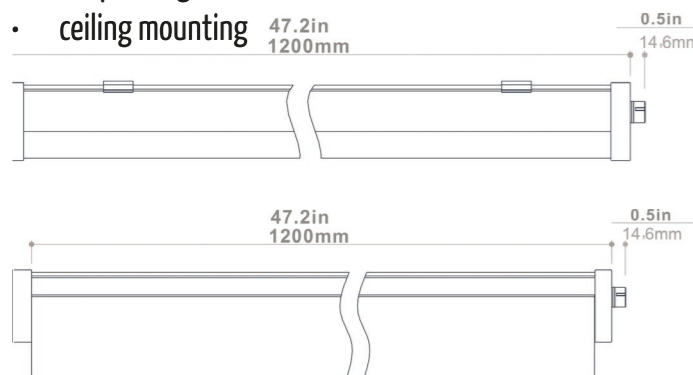
Suitable for universal indoor exotic plants, flowers, succulents, orchids, tillandsia and bromelia.

## Dimensions

1200mm x 55mm x 70mm  
1200mm x 155mm x 115mm (with reflector)

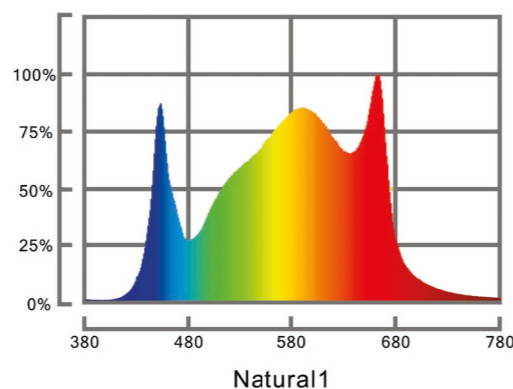
## Installation

- suspending
- ceiling mounting



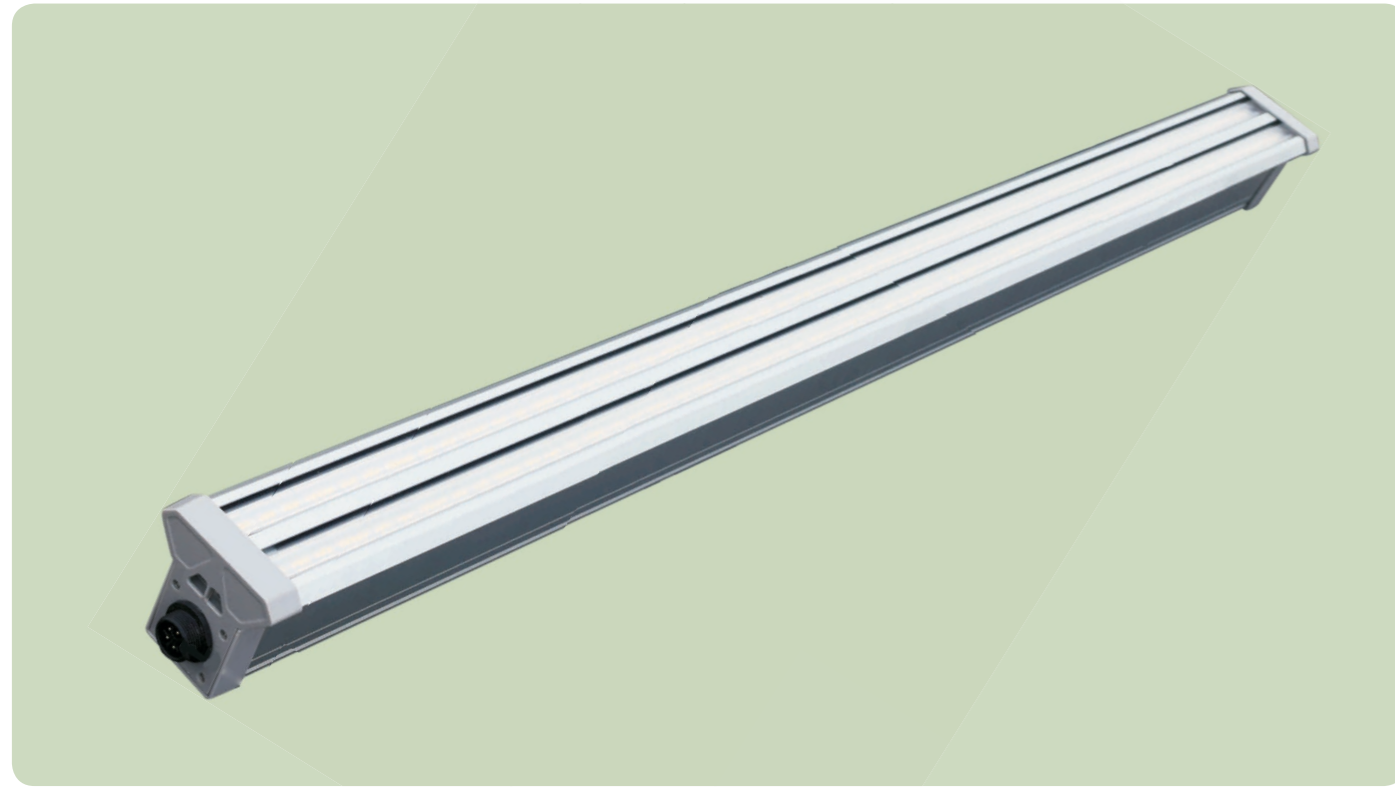
## Specifications

Product Code	231-0050	231-0051
Input Power	65 W	130 W
Input Voltage	100-277 V	100-277 V
Efficiency	2.0 $\mu\text{mol}/\text{J}$	1.8 $\mu\text{mol}/\text{J}$
Beam Angle	120°	80°
PPF	130 $\mu\text{mol}/\text{s}$	234 $\mu\text{mol}/\text{s}$
Weight	1,85 Kg	2,4 Kg
Dimming	0-10 V	0-10 V
Spectrum	Natural1	Natural1



ITEM	SPECIFICATION	DETAILS	DETAILS
GENERAL	Project Code:	231-0050	231-0051
	Product Name:	GrowConnect Top	GrowConnect Top
	Product Code:	298-0050	231-0051
	Size (LxWxH) mm:	1200x55x70mm	1200x155x115mm
	Cover Type:	Striped-Clear	Striped-Clear
	Cover Material:	PC	PC
	Body Color:	Silver	Silver
	Body Material:	Aluminum	Aluminum
	Surface Finish:	Oxidation	Oxidation
	Protection Class:	class I	Class I
	IP Levels:	66	66
	Housing Type:	Half Round	Half Round plus Reflector
	Socket / Connection Cable Type:	16AWG	16AWG
	Efficiency ( $\mu\text{mol}/\text{J}$ ):	2,0	1,8
PPF ( $\mu\text{mol}/\text{s}$ ):	130	234	
Beam Angle:	120°	80°	
LED Type:	3800K	3800K	
LED Quantity:	240pcs	364pcs	
ELECTRICAL	Driver (Brand and Specs):	INLEDCO D65 Slim Driver	INLEDCO D65 Slim Driver
	Power Supply Internal/External:	Internal	Internal
	Input Power:	65W	130W
	Input Voltage:	100-277VAC	100-277VAC
	Frequency:	50/60Hz	50/60Hz
	THD:	<20%	<20%
	PF:	>0.9	>0.9
	Interconnectable(Yes/No):	Yes	Yes
	By Max Power:	1950W(220VAC)	1950W(220VAC)
	By Max Quantity:	30pcs	15pcs
CONTROL	Dimmable (Yes/No):	Yes	Yes
	Dimming Type:	0-10V	0-10V
PHYSICAL	Cooling Type Passive/Active:	Passive	Passive
	Environment Temperature:	-20 to 40 °C	-20 to 40 °C
	Tc Lamp Body Temperature:	75 °C	75 °C
	Weight Per.Piece:	1.85Kg	2,4 Kg
	Weight Per Unit:	1.85Kg	2,4 Kg
	Quantity Per Packing Unit:	20	20
	Box Size Per Packing Unit:	1320*455*285mm	1320*455*285mm
	Box Weight Per Packing Unit:	41 Kg	52 Kg
	Accessories Included:	Mounting Clip Ceiling Rope Power Cable	Mounting Clip, Ceiling Rope Power Cable
	CERTIFICATION	Certificates:	UL, cUL, CE
Lxx/Bxx:		L80/B20 40.000h	L80/B20 40.000h
Lifetime Hrs (L70):		>50000 Hrs	>50000 Hrs
Warranty LED/Housing/Driver:		5 years	5 years

# GrowConnect Top 336



## Description

Various types of indoor horticulture lighting applications. Natural spectrum optimized for rapid growth and complete plant growth.

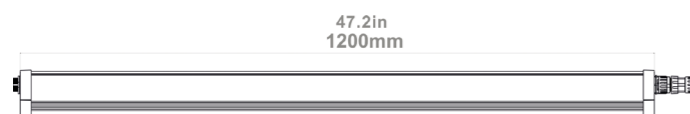
Suitable for universal indoor exotic plants, flowers, succulents, orchids, tillandsia and bromelia.

## Dimensions

1200mmx88mmx87mm

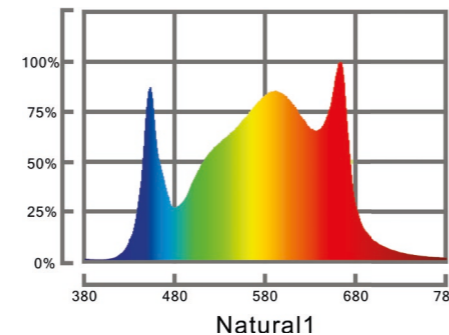
## Installation

- suspending
- ceiling mounting



## Specifications

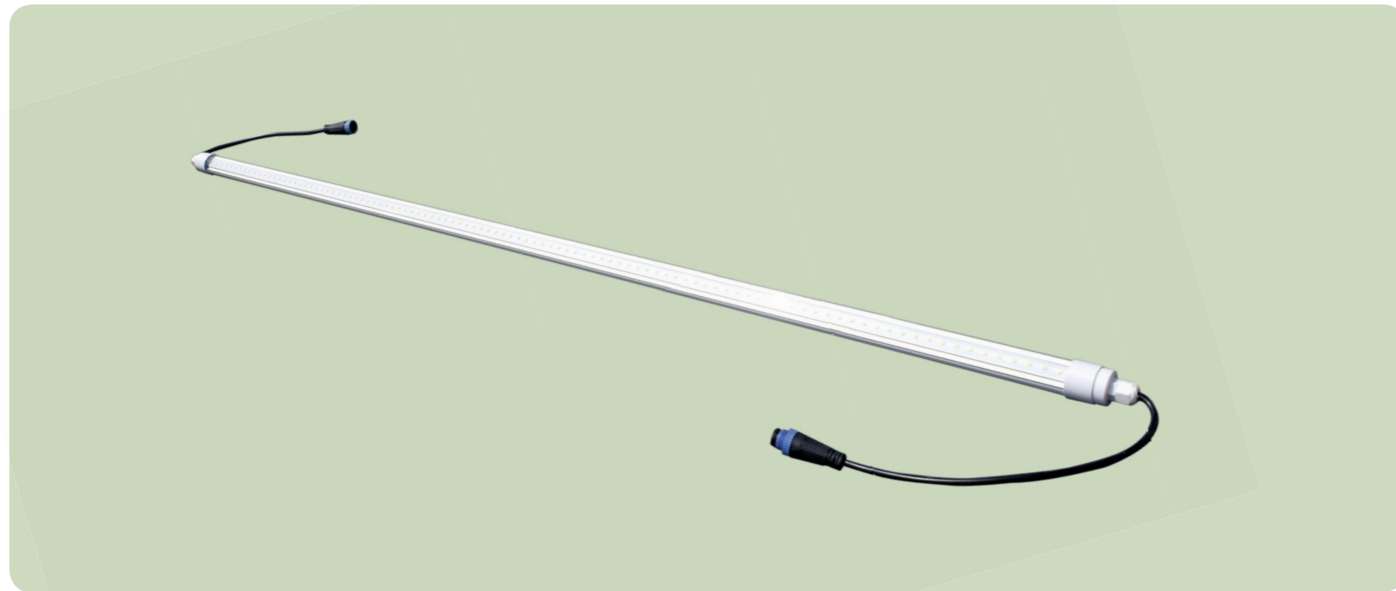
Product Code	336-0001	336-0002
Input Power	130 W	130 W
Input Voltage	100-277 V	100-277 V
Efficiency	2.0 $\mu\text{mol}/\text{J}$	2.2 $\mu\text{mol}/\text{J}$
Beam Angle	70° 90°	70° 90°
PPF	260 $\mu\text{mol}/\text{s}$	286 $\mu\text{mol}/\text{s}$
Weight	4,0 Kg	4,0 Kg
Dimming	0-10v	0-10v
Spectrum	Natural1	Natural1



ITEM	SPECIFICATION	DETAILS	DETAILS
GENERAL	Project Code	336	336
	Product Name:	GrowConnect Top	GrowConnect Top
	Product Code:	300-0001	300-0002
	Size (LxWxH) mm:	1200x88x87mm	1200x88x87mm
	Cover Type:	Clear	Clear
	Cover Material:	PMMA	PMMA
	Body Color:	Silver	Silver
	Body Material:	Aluminum	Aluminum
	Surface Finish:	Oxidation	Oxidation
	Protection Class:	Class I	Class I
	IP Level:	66	66
Housing Type:	Square	Square	
Socket / Connetion Cable Type:	Power cable round 5-pin	Power cable round 5-pin	
OPTIC	Efficiency( $\mu\text{mol}/\text{J}$ ):	2,0	2,2
	PPF( $\mu\text{mol}/\text{s}$ ):	260	286
	Beam Angle:	70° /90°	70° /90°
	Light Color K/ nm:	3800 K	3800 K
	CRI:	>90	>90
	LED Type:	Samsung 2835 0.5 W 4000K	Samsung 2835 0.5 W + OSRAM 3030 660nm
	LED Quantity:	690pcs	1064pcs
ELECTRICAL	Driver (Brand and Specs):	INLEDCO LD284	TRIDONIC LC 75W
	Power Supply Internal/External:	Internal	Internal
	Input Power:	130W	130W
	Input Voltage:	100-277 V	100-277 V
	Frequency:	50/60 Hz	50/60 Hz
	THD:	<15%	<15%
	PF:	>0.9	>0.9
	Interconnectable(Yes/No):	Yes	Yes
	By Max Power:	1800W 220Vac	1800W 220Vac
	By Max Quantity:	15pcs 220Vac	15pcs 220Vac
CONTROL	Dimmable (Yes/No):	Yes	No
	Dimming Type:	0-10 V	----
PHYSICAL	Cooling Type Passive/Active:	Passive	Passive
	Environment Temperature:	-20 to 40 °C	-20 to 40 °C
	Tc Lamp Body Temperature:	75 °C	75 °C
	Weight Per.Piece:	4 Kg	4 Kg
	Weight Per Unit:	4 Kg	4 Kg
	Quantity Per Packing Unit:	12pcs	12pcs
	Box Size Per Packing Unit:	1295x400x350mm	1295x400x350mm
	Box Weight Per Packing Unit:	50Kg	50Kg
	Accessories Additional Available:	stainless steel sliding-, interconnection clips, suspending kit	stainless steel sliding-, interconnection clips, suspending kit
	CERTIFICATION	Certificates:	UL, cUL, CE
Lxx/Bxx:		L80/B20 40.000 Hrs	L90/B10 50.000 Hrs
Lifetime Hrs (L70):		>50000 Hrs	>100.000 Hrs
Warranty LED/Housing/Driver:		5 years	5 years



# GrowGo T8 Flex 315



## Description

Vertical farming and Tissue Culture  
Full-cycle spectrum optimized for rapid growth and complete plant development.

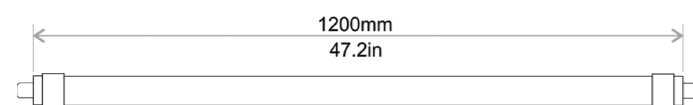
Suitable for a wide range of vertical farming lighting applications like vegetables, herbs in shelves or CC racks.

## Dimensions

1200 mm Ø26mm

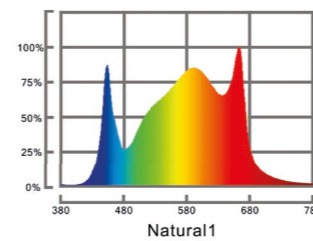
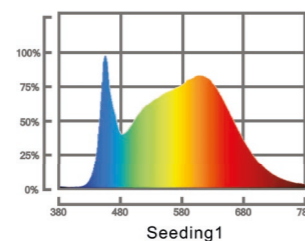
## Installation

- suspending
- ceiling mounting



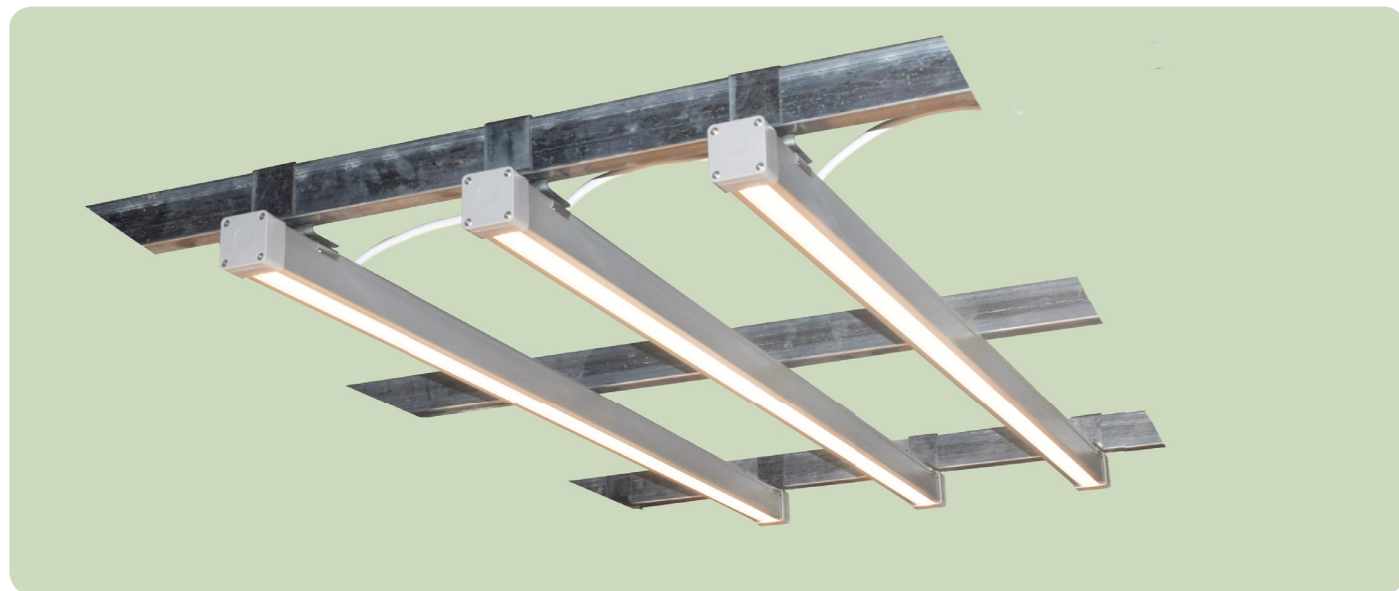
## Specifications

Product Code	315-0001	315-0003
Input Power	30W	30W
Input Voltage	100-277V	100-277V
Efficiency	1.7 µmol/J	2.1 µmol/J
Beam Angle	120°	120°
PPF	51 µmol/s	63 µmol/s
Weight	0,3 Kg	0,3 Kg
Spectrum	Seeding1	Natural1



ITEM	SPECIFICATION	DETAILS	DETAILS
GENERAL	Project Code:	315	315
	Product Name:	GrowGo T8 Flex	GrowGo T8 Flex
	Product Code:	315-0001	315-0003
	Size (LxWxH) mm:	1200x Ø26mm	1200x Ø26mm
	Cover Type:	Clear	Clear
	Cover Material:	PC	PC
	Body Color:	White	White
	Body Material:	PC	PC
	Protection Class:	Class II	Class II
	IP Level:	67	67
	Socket / Connetion Cable Type:	Power cable-round-2-pin-0.3m	Power cable-round-2-pin-0.3m
	Efficiency(µmol/J):	1,7	2,1
	PPF(µmol/s):	51	63
	Beam Angle:	120°	120°
	Light Color K/ nm:	4000K	3800K
CRI:	>90	>90	
LED Supplier:	SAMSUNG	SAMSUNG	
LED Type:	2835 0.5W 4000K	2835 0.5W 4000K + 660nm	
LED Quantity:	104pcs	112pcs	
ELECTRICAL	Driver (Brand and Specs):	INLEDCO 30W	INLEDCO 30W
	Power Supply Internal/External:	internal	internal
	Size if External:	----	----
	Input Power:	30W	30W
	Input Voltage:	100-277V	100-277V
	Frequency:	50/60Hz	50/60Hz
	THD:	<15%	<15%
	PF:	>0.9	>0.9
	Interconnectable(Yes/No):	Yes	Yes
	CONTROL	Dimmable (Yes/No):	No
Dimming Type:		---	---
PHYSICAL	Cooling Type Passive/Active:	Passive	Passive
	Environment Temperature:	-20 to 40 °C	-20 to 40 °C
	Tc Lamp Body Temperature:	75 °C	75 °C
	Accessories Additional Available:	Stainless steel clips, Power cable	Stainless steel clips, Power cable
	Weight per.Piece:	0.3Kg	0.3Kg
	Weight per unit:	0.3Kg	0.3Kg
	Quantity Per Packing Unit:	50	50
	Box Size Per Packing Unit:	1250x330x350mm	1250x330x350mm
	Box Weight Per Packing Unit:	18Kg	18Kg
	CERTIFICATION	Certificates:	CE
Lxx/Bxx:		L90/B10 50000h	L90/B10 50000h
Lifetime Hrs (L70):		>100.000 Hrs	>100.000 Hrs
Warranty LED/Housing/Driver:		5years	5years

# GrowGo Grid 301



## Description

Vertical farming and Tissue Culture  
Full-cycle spectrum optimized for rapid growth and complete plant development.

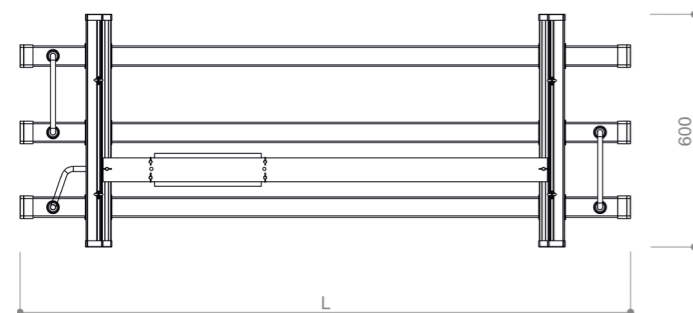
Suitable for a wide range of vertical farming lighting applications like vegetables, herbs in shelves or CC racks.

## Dimensions (single module)

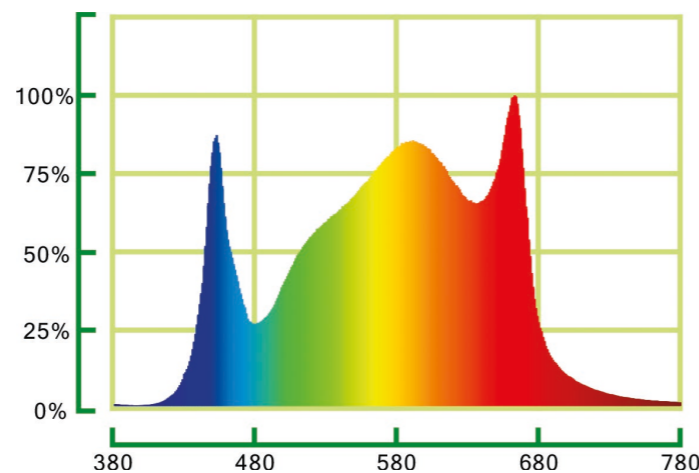
1210mmx44mmx44mm

## Installation

- suspending
- ceiling mounting



Product Code	301-0003
Input Power	150 W
Input Voltage	100-277 V
Efficiency	2,2 μmol/J
Beam Angle	40° 70° 90°
PPF	352 μmol/s
Spectrum	Natural1



ITEM	SPECIFICATIONS	DETAILS
GENERAL	Project Code:	301
	Product Name:	GrowGo Grid
	Product Code:	301-0003
	Size (LxWxH) mm:	1210x44x44mm
	Module:	3
	Cover Type:	Clear
	Cover Material:	PMMA
	Body Color:	Silver
	Body Material:	Aluminum
	Surface Finish:	Oxidation
	Protection Class:	Class I
	IP Level:	65
	Housing Type:	Square
	Socket / Connetion Cable Type:	Power cable-round-3-pin-1m and dimming-round-2-pin-1m
ELECTRICAL	Efficiency(μmol/J):	2,2
	PPF(μmol/s):	352
	Beam Angle:	40°/70°/90°
	Light Color K/nm:	3800K
	LED Type:	2835 0.5W
	LED Quantity:	741pcs
	Driver (Brand and Specs):	INVENTRONICS EUK-160W
	Power Supply Internal/External:	External
	Size if External:	171x67.5x36.5mm
	Input Power:	150W
	Input Voltage:	100-277V
	Frequency:	50/60Hz
	THD:	<15%
	PF:	>0.9
Interconnectable(Yes/No):	No	
CONTROL	Dimmable (Yes/No):	Yes
	Dimming Type:	1-10V
PHYSICAL	Cooling Type Passive/Active:	Passive
	Environment Temperature:	-20 to 40 °C
	Tc Lamp Body Temperature:	75 °C
	Weight per.Piece:	3.96Kg
	Weight per unit:	3.96Kg
	Quantity Per Packing Unit:	6
	Box Size Per Packing Unit:	1250x330x350mm
	Box Weight Per Packing Unit:	24Kg
	Accessories Additional Available:	Clips for lamp, Frame
	CERTIFICATION	Certificates:
Lxx/Bxx:		L80/B20 40.000h
Lifetime Hrs (L70):		>50.000 Hrs
Warranty LED/Housing/Driver:		5years

# GrowLite Series



## Description

LED Plant Light (GrowLite Series) features an innovative material – Nitride Polymer – as heat sink combined with modular design to provide astonishing performance. This top-quality luminaire is designed for professional indoor plant lighting application with selected receipt for various type of planting stages.

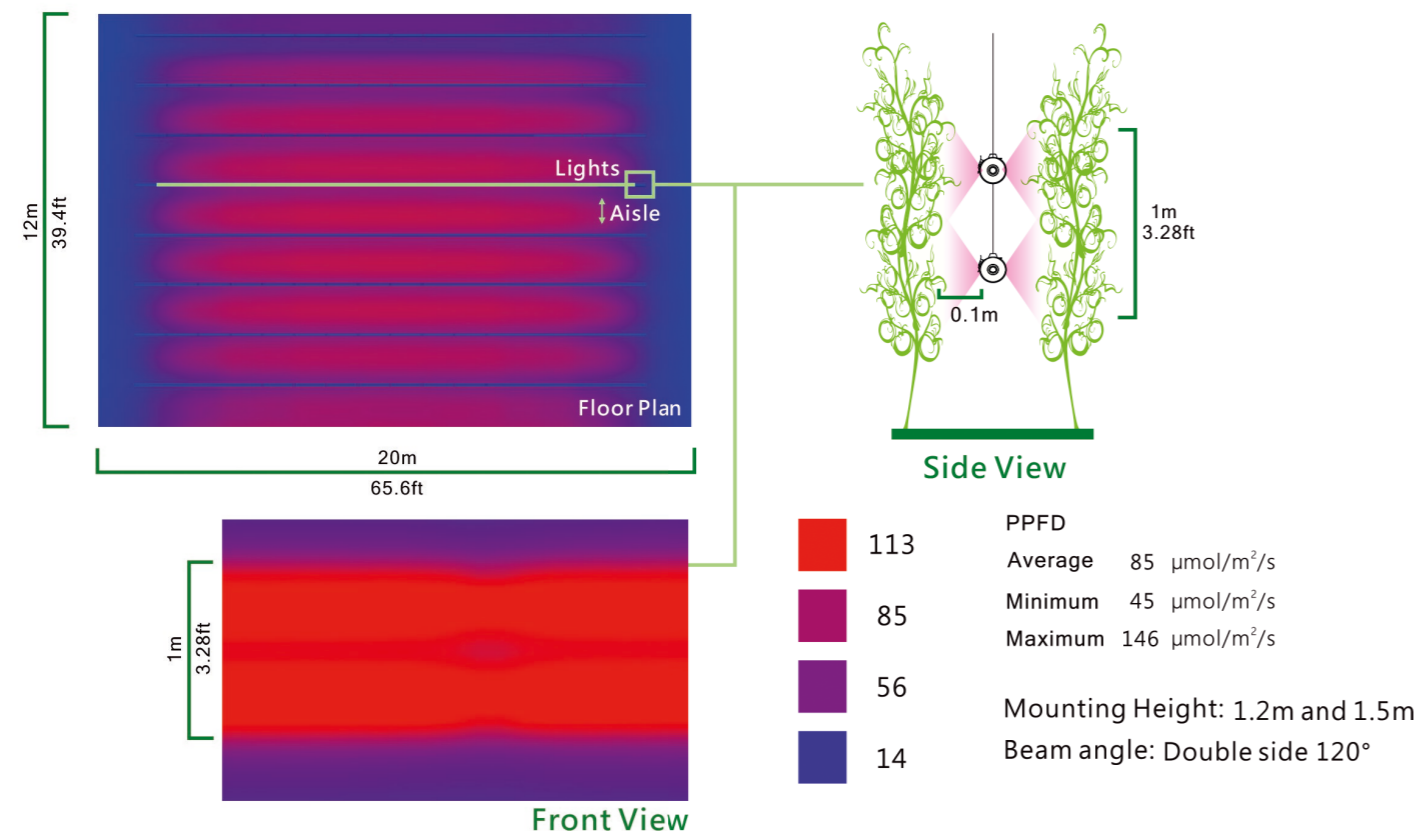
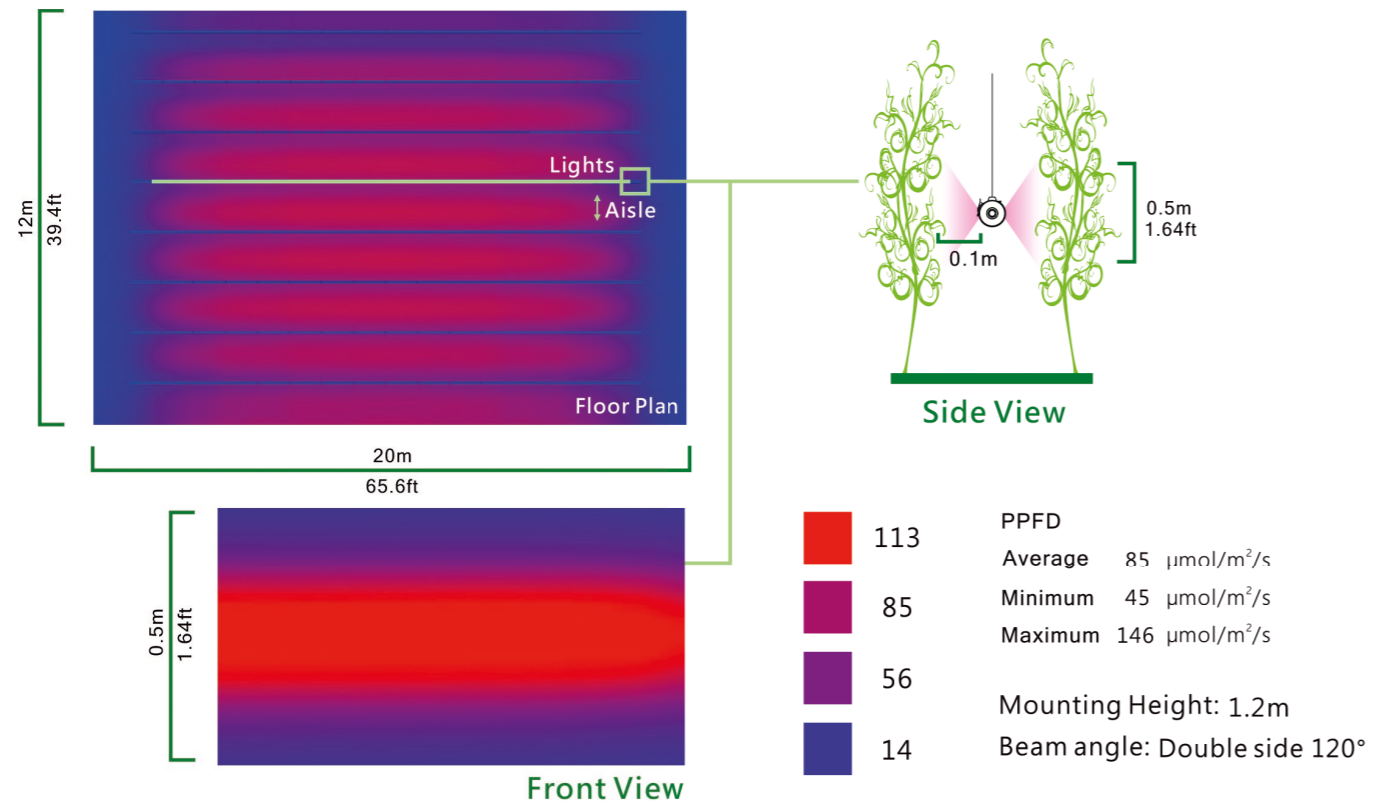
## Features of GrowLite Series

- Patented LED Module in Jigsaw form
- Silicon Optical Lenses
- Anti Static, Anti-acid and Anti Alkali
- Beam Angle of the lights is 100 degree
- Nitride Polymer is coated on the heat sink that provides great heat dissipation (2000W/°C) which is much better than copper and aluminium. It optimizes the LED life span and minimize the product size & weight
- Electrical insulation and high stability; chemical, physical, mechanical resistant
- Powder coated bracket allows easy positioning and 270° rotation

Model No.	Power (W)	No .of Module	Total No. of coloured LED	LED Ratio	NC Drivers	Stage
LPG268042WB01.T-K98Y	42	1x4	24	2R2B2W	1	Grow
LPG268038WB01.T-K99Y	38	1x4	24	3R2B1W	1	Flower (White)/All
LPG268035WB01.T-K97Y	35	1x4	24	4R2B	1	Germination
LPG208100WB01.T-K97Y	100	2x2	48	4R1 FR3 B3W1 L	1	Germination
LPG208100WB01.T-K99Y	100	2x2	48	5R3B1FR2W1L	1	All
LPG286200WB01.T-K99Y	200	3x3	108	5R3B1FR2W1L	1	All
LPG286225WB02.T-K99Y	225	3x3	108	5R3B1FR2W1L	2	All

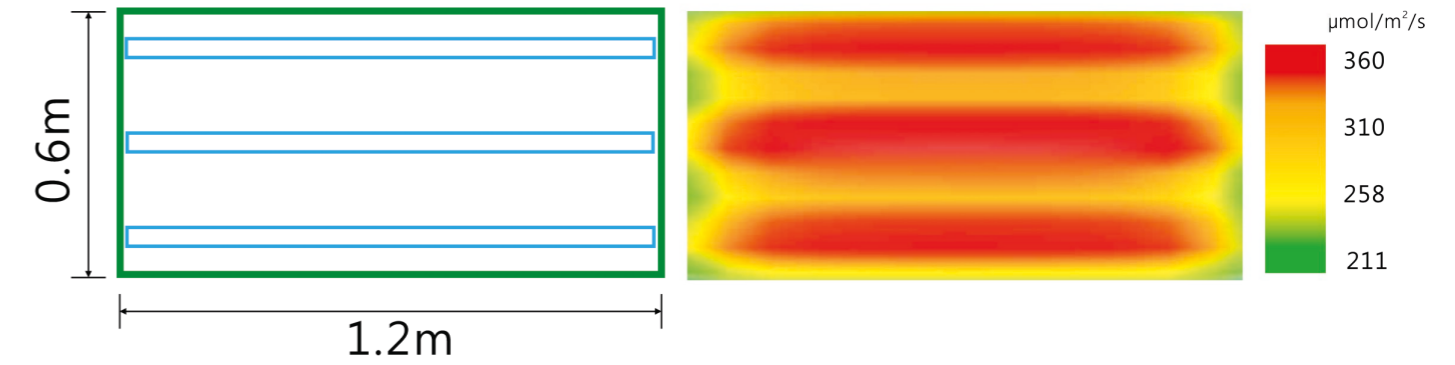
SPECIFICATION	DETAILS
Beam Angle	30°, 60°, 100°
LED Brand	Lumileds
Total Photon flux (PPF) in µmol/s	According to different receipts
Driver Brand	Inventronic
Input Voltage	100-277V
Power	35, 38, 42, 100, 245W
Power Factor	0,95
Measurement (Height x Width x Depth)	1x4: 268x82x44mm 2x2: 198x198x75mm 3x3: 286x286x75mm
NetWeight	1x4: 0.52kg 2x2: 2.45kg 3x3: 4kg (200W & 250W); 4.5kg (300W)
Housing	Charcoal Grey
Certification	CE, RoHS, FCC
Environment	Wet Environment
IP Rating	IP65

## GrowConnect Inline 298 PPFd Performance



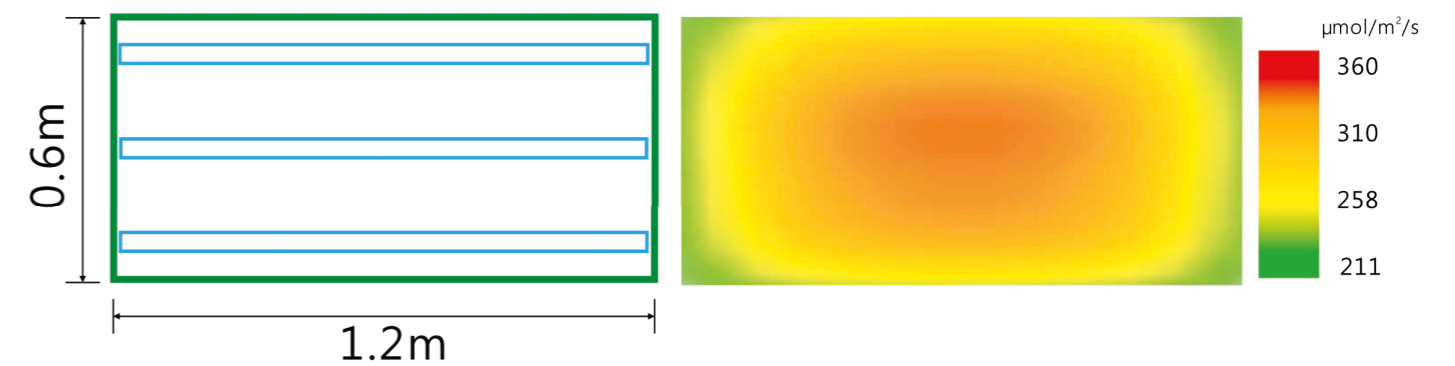
## GrowGo Grid 301 PPFd Performance

### Calculation surfaces



Mounting Height: 0.15m(0.49') above crop canopy  
Beam angle: 90°  
160W per 1.2x0.6m(3.9'x1.98') canopy

**PPFD**  
Average 327  $\mu\text{mol}/\text{m}^2/\text{s}$   
Minimum 200  $\mu\text{mol}/\text{m}^2/\text{s}$   
Maximum 414  $\mu\text{mol}/\text{m}^2/\text{s}$



Mounting Height: 0.3m(0.98') above crop canopy  
Beam angle: 70°  
160W per 1.2x0.6m(3.9'x1.98') canopy

**PPFD**  
Average 248  $\mu\text{mol}/\text{m}^2/\text{s}$   
Minimum 140  $\mu\text{mol}/\text{m}^2/\text{s}$   
Maximum 300  $\mu\text{mol}/\text{m}^2/\text{s}$



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