GL-Flora Product Series

Features

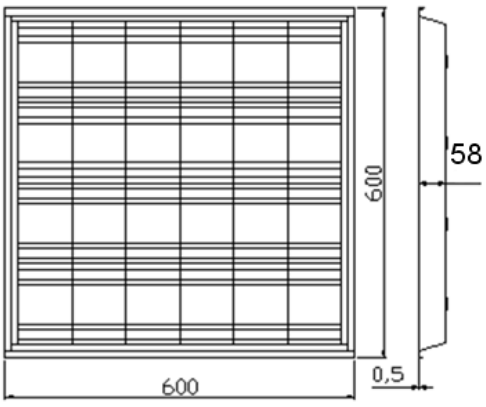
- Light source: Everlight SMD LED
- NO UV or IR light radiation
- Low power consumption
- Environmentally friendly
- Optimized heat management system
- 100V-240V AC input
- Proof efficient to grow vegetables faster and better
- Long LED lifetime >35,000 hrs (L70)

GL-Flora

Typical Applications

- Agricultural Lighting
- Aquarium Lighting
- Plant Factory Lighting
- Professional Lighting

Product Dimension



Notes:

1) Dimensions are in millimeters
2) Standard tolerance is ±1 mm unless stated
3) Lighting module fitted for G5 pin type

Coding of Product Number

GL – Flora / QL2 / R901
1 2 3 4

1. **Product Series**
   GL: Green Lighting

2. **Lighting Module Type**
   Flora: Flora agricultural light series

3. **Lighting Source**
   TL2: 10W Demeter tube*3
   QL2: 10W Demeter tube*4
   TL4: 20W Demeter tube*3
   QL4: 20W Demeter tube*4

4. **Recipe**[1]
   R901: R : G : B = 9 : 0 : 1
   R802: R : G : B = 8 : 0 : 2
   R811: R : G : B = 8 : 1 : 1
   Note. 1. The RGB ratio is defined by the Photosynthetic Photon Flux Intensity (PPFD, μmol/m^2/s).

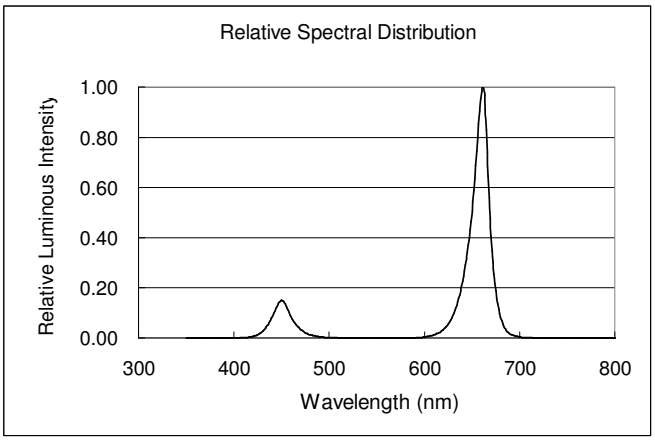
Product Specification

Parameter	*Description*		
	R:G:B = 9:0:1	***R:G:B = 8:0:2***	***R:G:B = 8:1:1***
Optical lens	PC Optical lens		
Housing	Anodizing Aluminum Housing		
Pin Type	2 copper pins, G5 Standard Size		
Operation Temperature	-20℃~ +35℃		
Storage Temperature	-40℃ ~ +70℃		
Power Input	48 VDC Input		
Illuminance (lux)	850 min.	900 min	1500 min
x	0.415~0.445	0.315~0.345	0.350~0.380
y	0.135~0.165	0.090~0.120	0.245~0.275
PPFD	85 min.	85 min.	70 min.

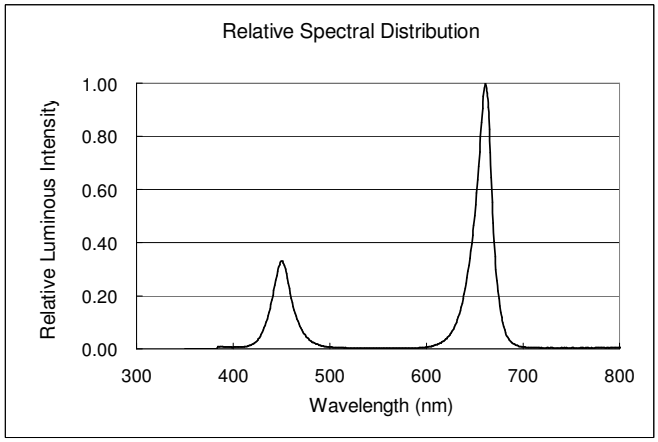
Notes:
1. The illuminance (lux), CIE x, y and PPFD (Photosynthesis Photon Flux Density, umol/m^2/s) are measured in the middlepoint of the luminarie at a distance of 15 cm.
2. The illuminance, CIE x, y and PPFD with standard ± 5 % tolerance.

Electro-Optical-Thermal Characteristics Curves

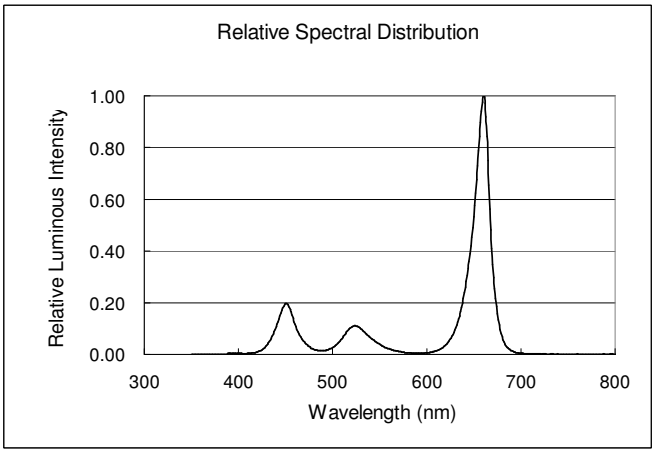
Relative Spectral Distribution,
I_F= 25mA, $T_{Ambient}$=25ºC (9:0:1)



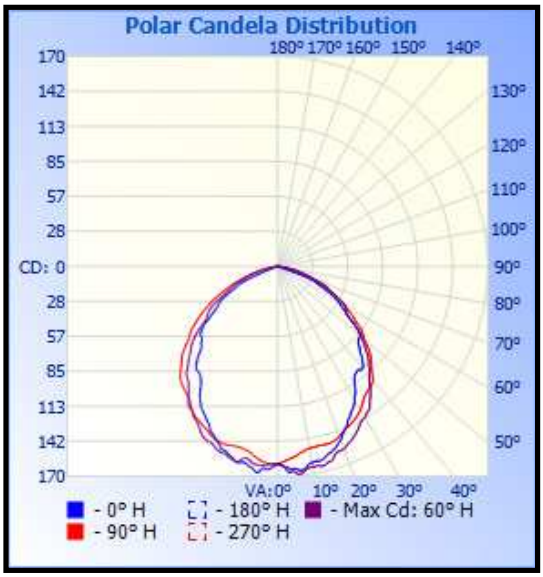
Relative Spectral Distribution,
I_F= 25mA, $T_{Ambient}$=25ºC (8 :0 :2)



Relative Spectral Distribution,
I_F= 25mA, $T_{Ambient}$=25ºC (8 :1 :1)



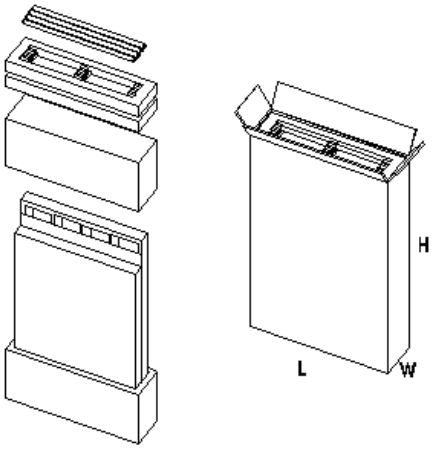
Characteristics Intensity Distribution Curve



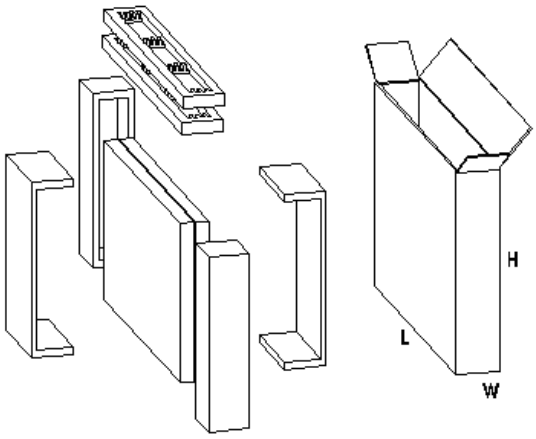
Outside Carton

Packaging Dimension and Weight

For TL2, QL2



For TL4, QL4



	TL2	QL2	TL4	QL4
Lamp Size(mm)	600 x 600 x 58	600 x 600 x 58	1210 x 600 x 58	1210 x 600 x 58
Lamp Weight (kg)	2.45	2.45	5	5.2
Package Size (L,W,H, mm)	676 x 773 x 190	676 x 773 x 190	1285 x 773 x 190	1285 x 773 x 190
Products per Carton	2	2	2	2
Total Weight(Kg)	8	8	15	15

Label Explanation

CPN: Customer Production Number

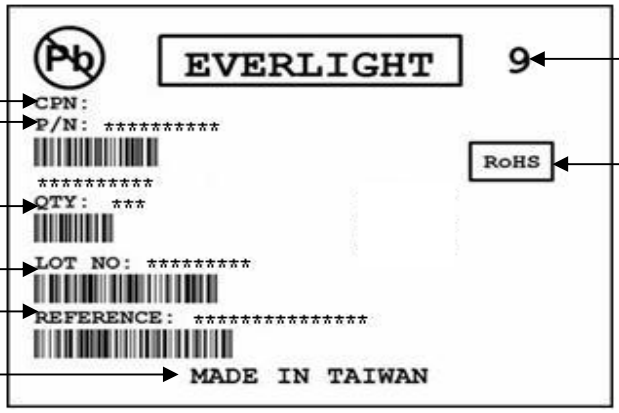
P/N : Production Number

QTY: Packing Quantity

LOT No: Lot Number

REF: Reference

MADE IN TAIWAN: Production Location

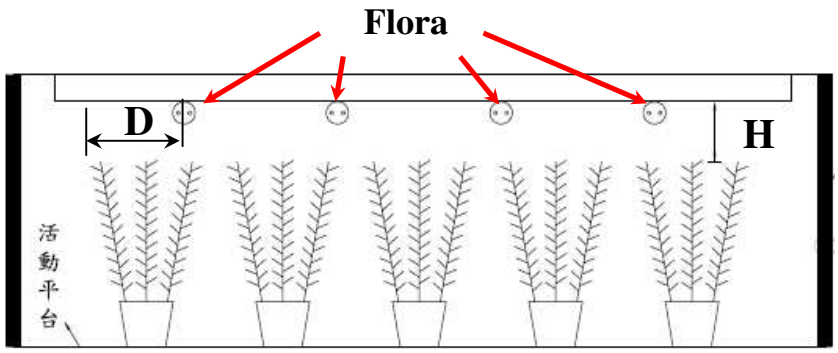


Application Notes

Everlight GL-Flora series utilize optical, electrical, and thermal technologies to develop and drive our solid state lighting devices. Please note the following specifications for comprehensive use of product

1. Installation

a. The installation method is described in the following figure.
b. The recommended installation height (**H**) between light source and plant is about 100mm to 200mm。
c. The recommend **D** is half of **H**。
d. Light intensity is around 100 μmol/m^2/s at **H**= 100 mm in distance.



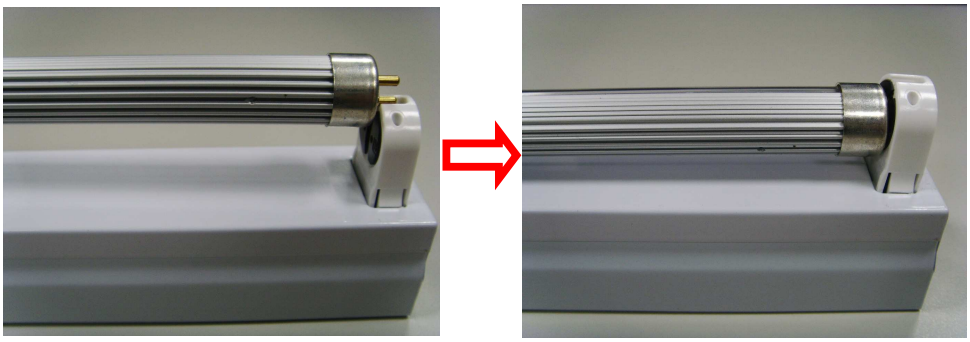
SAFETY INSTRUCTIONS

Installation Instructions

1. Before installing, check that the following items of the GL-Flora series:
   - ✓ GL-Flora
   - ✓ Warranty seal label has not broken

   Noted: Please contacted Everlight Electronics Co., Ltd., if any parts are missing or broken.

2. Electrical management and installation:
   - ✓ The installation method is described in the following figure (See the wing figure). After assembling, please turn the cover upside.



   - ✓ The electric wire is described in the following figure.