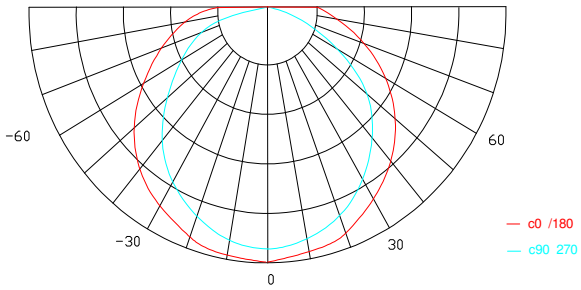
Technical Data Sheet

GL-Flora-Wedge Series

Characteristics Intensity Distribution Curve

For GL-Flora-Wedge ML2, ML4



Features

- Light source: Everlight SMD LED
- Low power consumption
- High luminosity and long life time
- Customer defined RGB wavelength and ratio
- Environmentally friendly
- Excellent opto-electronic performance
- Optimized heat fins for natural convection
- G5 socket compatible

Typical Applications

- Agricultural Lighting
- Aquarium Lighting
- Biological Lighting
- Mood Lighting
- Professional Lighting

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		
Pin Type	2 copper pins, G5 Standard Size		
Operation Temperature	-20℃~ +35℃		
Storage Temperature	-40℃ ~ +70℃		
Power Input	48 VDC Input		
Illuminance (lux)	880 min.		
x	0.415~0.445	0.315~0.345	0.352~0.385
y	0.135~0.165	0.090~0.120	0.234~0.279
PPFD	150 min.	150 min.	65 min.

Notes:

1) The illuminance (lux), CIE x, y and PPFD (Photosynthesis Photon Flux Density) are measured in the middle point as shown below at 100 mm distance.
2) The illuminance, CIE x, y and PPFD with standard ± 5 % tolerance.

Coding of part number:

GL – Flora–Wedge / ML2 / R901

1 2 3 4

1. Product series

GL: Green Lighting

2. Luminaire Type

Flora-Wedge: Luminaire

3. Lighting Source

ML2: 10w Demeter x1

BL2: 10w Demeter x2

ML4: 20w Demeter x1

BL4: 20w Demeter x2

4. Recipe [1]

R901: R：G：B = 9：0：1

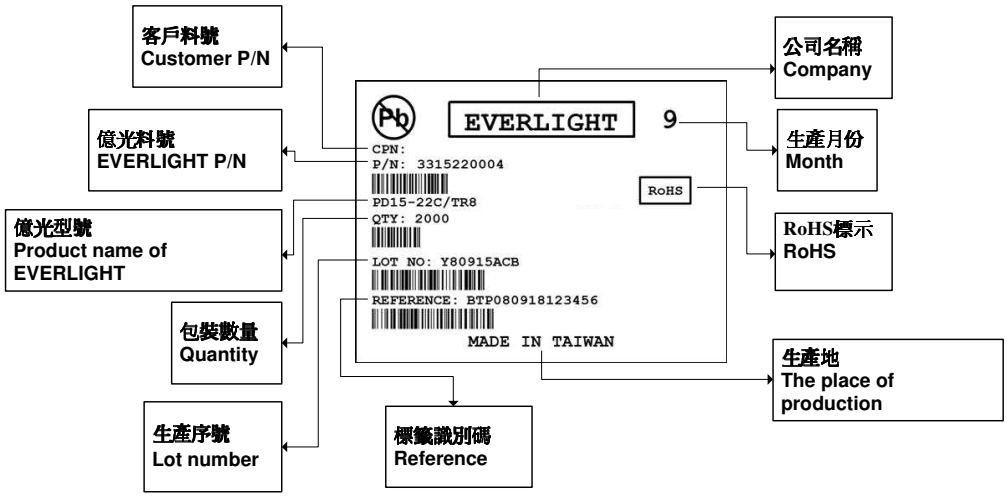
R802: R：G：B = 8：0：2

R811: R：G：B = 8：1：1

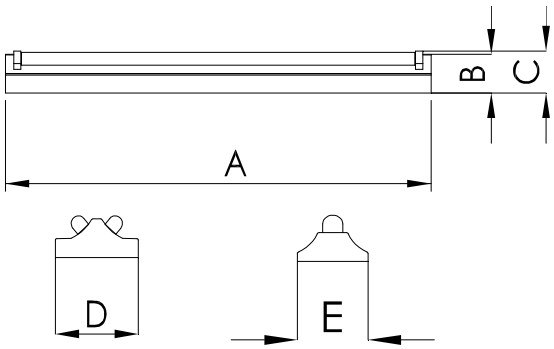
Note. 1. The RGB ratio is defined by the Photosynthetic Photon Flux Intensity (PPFD, μmol/m^2/s).

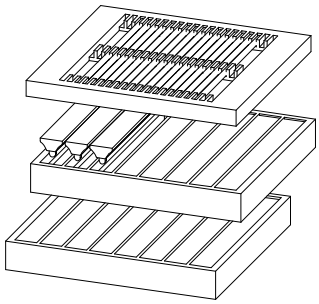
2. The tolerance of power consumption is ±2

Label Explanation

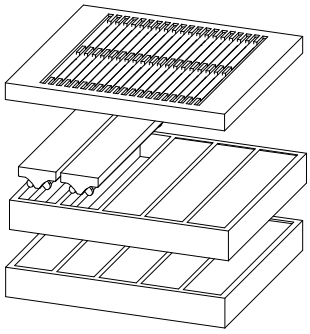


Packaging Dimension and Weight

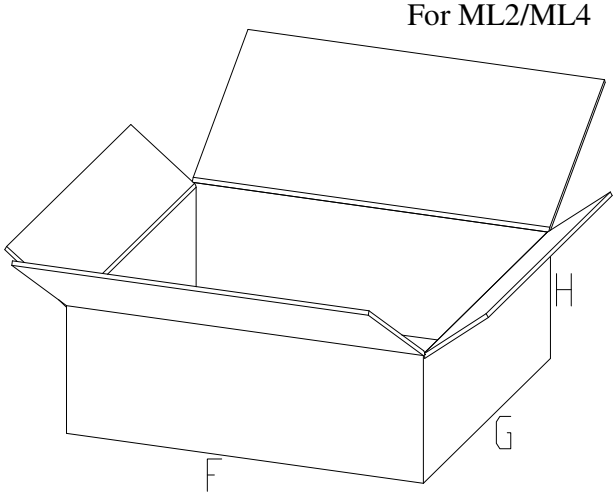




For ML2/ML4



For BL2/BL4



	ML2		BL2		ML4		BL4	
Lamp Size (L, mm)	A	589	A	592	A	1191	A	1191
	B	33	B	51	B	33	B	51
	C	55	C	58	C	55	C	58
	E	71	D	115	E	71	D	115
Lamp Weight(Kg)	0.63		0.86		0.96		1.49	
Package Size (mm)	F	690	F	690	F	1250	F	1250
	G	650	G	650	G	445	G	445
	H	220	H	220	H	220	H	220
Products per Carton	16		10		10		6	
Total Weight (Kg)	13		12		13		12	

Application Notes

To ensure optimal performance of the Everlight GL-Flora-Wedge series Lighting, operation within parameters of this datasheet and understanding of the internal components is crucial.

LED T5 Tube

The light source of the GL-Flora-Wedge series is the Everlight LED T5 Cobra light tube. This light tube is DC driven ONLY. Power input should be 48VDC. Driving the Everlight T5 Cobra light tube with AC power input may be hazardous and result in failure. The Everlight LED T5 Cobra in the GL-Flora-Wedge can only be replaced by an equivalent Everlight LED T5 Cobra.

This will greatly reduce the possibility of incompatible light sources that may be hazardous and result in failure. When installing the Everlight LED T5 Cobra, please ensure that pins are properly placed within the socket and turned a full 90°. This will ensure optimal light output and performance.

The lens of the Everlight LED T5 Cobra is composed of standard polycarbonate material. Unnecessary pressure or bending of the lens may result in puncturing or cracking the surface. Please handle with care.

Although the Everlight LED T5 Cobra is fitted with an aluminum heat sink, proper airflow will ensure optimal performance and lifetime.

Power Supply

The power supply is an AC to DC power transfer device rated at 46W that has the capability to deliver an output of 48V DC with a standard rated current of 0.96A. The input is rated at 100-240VAC 50/60Hz with a range capability of up to 90-264VAC 47-63Hz. The input current max achievable is 1.1A at 100VAC/60Hz.

Two pins each are reserved for both input and output power of the power supply. Please see the diagram below for pin configuration of the PSU.

Pin Layout

Section	Pin	Description
Conn1	L	Input
	N	Input
Conn2	Gnd	Gnd
	48V	Output

Drawing Dimensions: (L)318mm*(W)45.5mm*(H)28mm