

**For Indoor Vertical Farming**  
**Cultivate different crops**



Fruits



Vegetables



Flowers



Medicals

## ◆ Features:

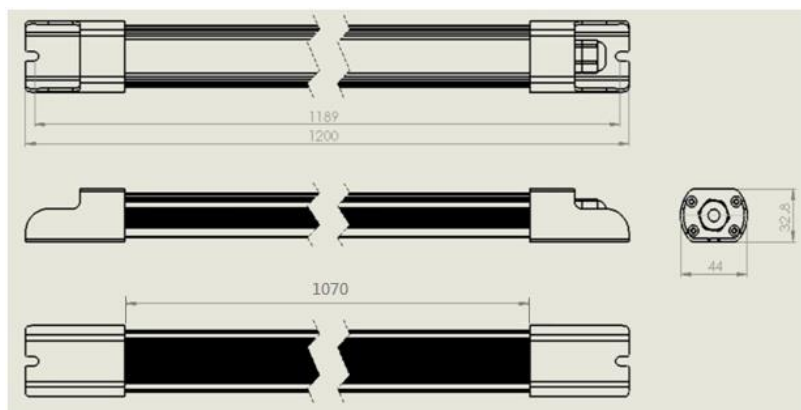
- Aluminum product fixture for passive air cooling.
- 0-10V Dimmable optional under request.
- Standard specifications for full-cycle growing stages to accommodate your plants.
- With standard Spectrum (WW / RBW / RB / PCRW ) for options.
- Select high efficiency LEDs to increase the harvest volume by saving up to 50% energy
- suggest install 4pcs( 25cm lamp space) , distance 25~30cm from plants in 100cm<sup>2</sup> growing bed

## ◆ Specification:

## ◆ Mechanical Dimension:



**COMBO**



**Quelighting Corp.**

Cares the Earth we all live in together.  
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**Features:**

- Aluminum fixture for better heat dissipation (passive air cooling)
- Equip with water resistant connector for High reliability
- Multiple spectrum average PPFD150~200  $\mu\text{mol}/(\text{m}^2\text{s})$  for different crop cultivation and suit for all growing stages
- Built in driver or exclusive LED driver optional according to your vertical farm construction
- Select high efficiency LEDs chips for better light distribution

**Specifications:**

Type	COMBO Series			
Part No.	COMBO-WW-40	COMBO-RBW-43	COMBO-PCRW-40	COMBO-RB-43
Photo				
AC Input Voltage	AC 100~240V	AC 100~240V	AC 100~240V	AC 100~240V
Rated Power	40W ± 7%	43W ± 7%	40W ± 7%	43W ± 7%
Spectrum	Neutral White	Red/Blue/White	PCRed/ White	Red/Blue
PPFD μmol/(m2s)	204.1 μmol/(m <sup>2</sup> s)	205.4 μmol/(m <sup>2</sup> s)	168.8 μmol/(m <sup>2</sup> s)	182.4 μmol/(m <sup>2</sup> s)
LED Q'ty	256pcs	224pcs	192pcs	256pcs
PPF μmol/s	87.13 μmol/s	90.9 μmol/s	69.87 μmol/s	81.32 μmol/s
Efficiency (μmol/j)	2.1 μmol/j	2.1 μmol/j	1.7 μmol/j	1.8 μmol/j
LED lifespan	>30,000 hrs	>30,000 hrs	>30,000 hrs	>30,000 hrs
Beam Width	120°	120°	120°	120°
Approval	CE Declaration , RoHS Compliant			
Waterproof Grade	IP 54			
Distance from Plants	20cm~30cm			
Dimension	W44 x H32.8 x L 120 cm			
Product finish	Flood end cap with quick connector			
All parameters tested under 25°C ambient temperature				

**Applications:**

Indoor Farming




Multilayer Shelf

**Spectrum Available:**

- WW = Netural White
- RBW = Deep Red , Blue , White
- PCRW = PCRed, White
- RB = Deep Red, Blue

**PPFD result @ 20cm Height**Use spectrometer test 5 points of PPFD ( $\mu\text{mol}/\text{m}^2\text{s}$ )

ECOTUBE LAMP -100cm length		5 Points of PPFD test by Spectrometer PG200N					
	Spectrum	Power	1	2	3	4	5
	WW	40W	146	201.8	204.1	204.6	155.6
	RBW	43W	153.7	202.4	205.4	204.4	155.8
	PCRW	40W	113.6	155.4	168.8	154.5	115.1
	RB	43W	138	185.1	182.4	180	144.8