A19 Grow Light

ALTLED®

Metis Series

Specification Sheet

Product Introduction

Metis A19 Grow Light uses LUXEON Rebel red and blue LED chipset to provide light wavelength 400~500 nm in blue and 600~700 nm in red for plant growing. With globe shape, A19 grow light is able to adopt with various bases to replace traditional bulb instantly. Obtained CE, FCC, RoHS, and Laser Testing. Metis A19 will provide the most safety using experience to users, and become the best choice for modern agriculture field

Certificates

Features

- ✓ Red and blue wavelengths are ideal for growing and flowering of plants.
- ✓ Fits various environments with a 180 degree beam angle.
- ✓ High density aluminum increase heat dissipation.

Application

- ✓ Greenhouse Lighting

Specifications

Item	Specification	Details
Output	Beam Angle	180°
	Colour Range	Red / Blue mix
	Lumen Maintenance	30,000 hours
Electrical	Input Voltage	100 ~ 240V AC
	Power Consumption	6 Watts
Physical	Bases	· E26 / 24 (US) · E26 / 27 (EURO) · E11 · E12 · E14 · E17 · B22D
	Weight	3.17 oz. (90 g)
	Lens	Optics PMMA
	Operating Temperature	-4° F to 104° F (-20°C to 40°C)
	Humidity	0 – 95%, non-condensing
Certification and Safety	Certification	CE , FCC , RoHS , Laser Testing
	Environment	Not for use in totally enclosed fixtures Suitable for damp location
	Warranty	3 years
	Two Million Worldwide Product Liability Insurance.	

Lamp Luminous Flux

Chipsets	LUXEON Rebel
Power Consumption	6 W
Beam Angle	180°
Red / Blue mix	120 lm

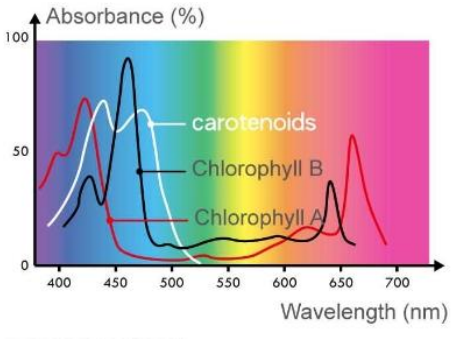
※All Lamp Luminous Flux Data are indicated in max values.

Optical Characteristics

Dominant Wavelength (nm) or Colour Temperature (K)

Correlated Colour Temperature	Min.	Typ.	Max.
Red	620 nm	625 nm	635 nm
Blue	460 nm	470 nm	475 nm

Chlorophyll Chart



For plant growth, the first stage of photosynthesis is absorbing light by chlorophyll. Chlorophyll A &B and carotene are three major elements to affect plant growth. The two ideal wavelengths for photosynthesis are Blue ray 400-500 nm and Red ray 600-700 nm. Scientifically proved Blue ray and Red ray are the most efficient for plant growth.

Wavelength	Color	Effects on plant illumination
400~520 nm	Blue	Maximize the Chlorophyll and carotenoids absorbability, highest effect on photosynthesis
610~720nm	Red	Low absorbability of Chlorophyll, notable affect to Chlorophyll and light cycle effect

Mechanical Dimensions

Design E26/24 (US)

Ø49.8 x 105 mm

Design E26/27 (EURO)

Ø49.8 x 108 mm

Design E11

Ø49.8 x 99 mm

Design E17

Ø49.8 x 105 mm

Design E14 (US)

Φ 50 x 105 mm

Design B22D (EURO)

Φ 50 x 112 mm

Design B22D

Φ 49.8 x 104 mm

Design E12 (US)

Ø 49.8 x 101 mm

Design E12 (EURO)

Ø 49.8 x 104mm

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