

G19 Grow Light



ALLED®

Asteria Series

Specification Sheet

Product Introduction

Asteria G19 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, G19 grow light is able to adopt with various bases to replace traditional bulb instantly. Obtained CE, FCC, and RoHS, Laser Testing. Asteria G19 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.
- ✓ Elegant, rich and long-lasting lighting output ideal for Interior design.
- ✓ 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	12V AC/DC or 100 ~ 240V AC
	Power Consumption	6 Watts
Physical	Bases	· GX 5.3 / GU 5.3
		· E26 / 24 (US)
		· E26 / 27 (EURO)
		· GU10 / GZ 10
		· EZ10
		· E11
		· E12
		· E14
· E17		
· B22D		
· BA15D		
· BA15S		
Weight	0.88 ~ 1.69 oz. (25 ~ 48 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, REACH
	Environment	Not for use in totally enclosed fixtures Suitable for damp location
	Warranty	3 years
Two Million Worldwide Product Liability Insurance.		

Chipset Luminous Flux

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

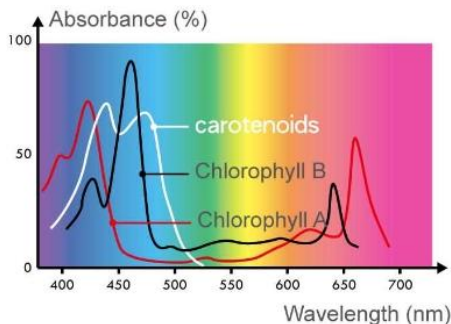
※All Chipset Luminous Flux Data are indicated in max values.

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

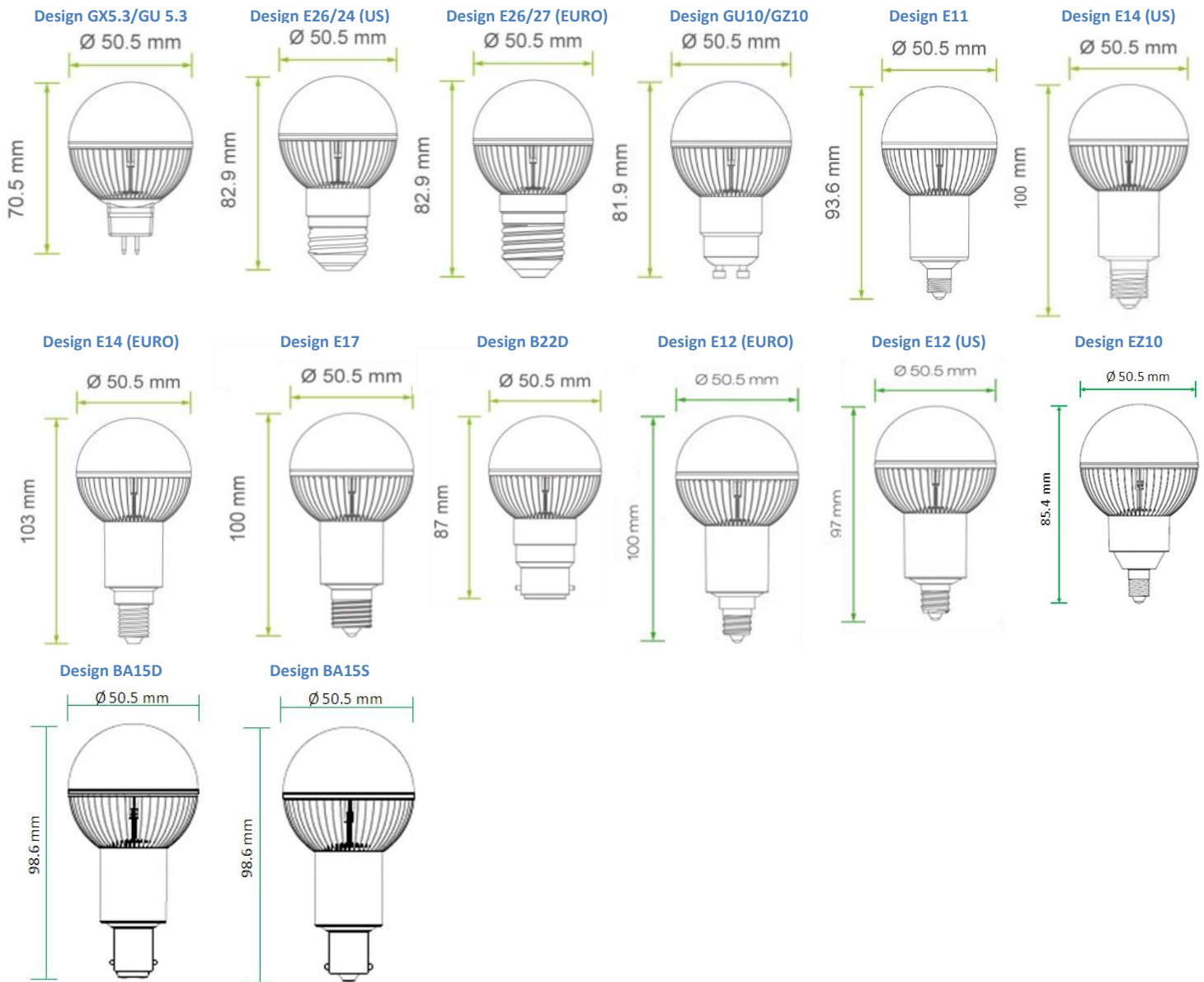
Chlorophyll Chart



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



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