



# The role of light in the growth and development of plants

## Horticulture

Plant growth (photosynthesis) is not determined by lux or energy, but by the photons from the blue to red (400–700 nm) part of the spectrum. This is called growth light! For horticulture, natural daylight (global radiation) is in most cases measured in terms of energy (J or W) with a solar meter. This meter is generally positioned on top of the greenhouse. The value of global radiation is important for climate and humidity control in the greenhouse. Agrolite XT lamps are specially developed for maximum growth light and are among the most efficient light sources available for horticulture.

### Benefits

- Control the light period by extending the natural day length with artificial light.
- Supplements daylight in greenhouses with "growth-light".
- Replaced daylight with artificial light for ultimate climate control (cultivation without daylight).

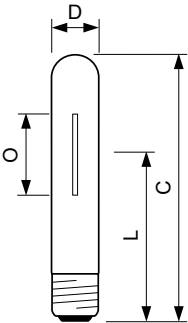
### Features

- High lumen and growth light maintenance safeguards a constant crop quality and quantity over life.
- Ceramic discharge tube with PIA technology for long and reliable lifetime.
- Simple and robust construction for enhanced reliability and longer life.
- Available in 400 and 600 watt (230V, 347V, 480V) versions.

### Application

- Ideal for growing vegetables and flowers.

Dimensional drawing



Product	D (max)	D	O	L	C (max)	A
MASTER GreenPower 600W 480V E40 1SL/12	47 mm	1.81 inch	120 mm	168 mm	283 mm	205 mm
MASTER GreenPower CG T 600W Mogul 1SL/12	47 mm	1.75 inch	102 mm	166 mm	275 mm	205 mm
MASTER GreenPower Plus 600W EL Mogul	47 mm	1.81 inch	120 mm	168 mm	283 mm	205 mm

General Information	
Operating Position	UNIVERSAL
Mechanical and Housing	
Bulb Finish	Clear

General Information

Order Code	Full Product Name	Cap-Base
928152219207	MASTER GreenPower Plus 600W EL Mogul	E39
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	E40

Order Code	Full Product Name	Cap-Base
928197709207	MASTER GreenPower CG T 600W Mogul 1SL/12	E39

Light Technical

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Color	Color rendering	Luminous Efficacy (rated)
		Coordinate X (Nom)	Coordinate Y (Nom)	Temperature (Nom)	index (CRI)	(Nom)
928152219207	MASTER GreenPower Plus 600W EL Mogul	533	416	2000 K	36	144 lm/W
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	0.526	0.420	2040 K	33	142 lm/W
928197709207	MASTER GreenPower CG T 600W Mogul 1SL/12	533	432	2000 K	26	142.4 lm/W

Operating and Electrical

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928152219207	MASTER GreenPower Plus 600W EL Mogul	228 V	600 W
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	208 V	645.0 W

Order Code	Full Product Name	Voltage (Nom)	Power Consumption
928197709207	MASTER GreenPower CG T 600W Mogul 1SL/12	130 V	618.0 W

Controls and Dimming

Order Code	Full Product Name	Dimmable
928152219207	MASTER GreenPower Plus 600W EL Mogul	No
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	Yes

Order Code	Full Product Name	Dimmable
928197709207	MASTER GreenPower CG T 600W Mogul 1SL/12	Yes

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928152219207	MASTER GreenPower Plus 600W EL Mogul	T40
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	T46

Order Code	Full Product Name	Bulb Shape
928197709207	MASTER GreenPower CG T 600W Mogul 1SL/12	T46

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
928152219207	MASTER GreenPower Plus 600W EL Mogul	676 kWh	41.8 mg
928161409227	MASTER GreenPower 600W 480V E40 1SL/12	710 kWh	42 mg
928197709207	MASTER GreenPower CG T 600W Mogul 1SL/12	680 kWh	30.0 mg



