PHILIPS

## Horticulture

D_HORT



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

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 orW) 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 daylilght with artificial light for ultimate climate control (cultivation without daylight).

### Applications

- Ideal for growing vegetables and flowers.

### Features

- High lumen and growth light maintenance safeguards a constant crop quality and quantity over life.

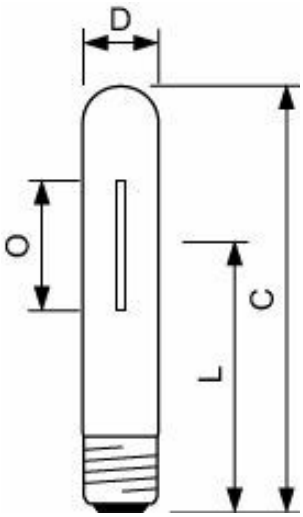
- Ceramic discharge tube with PIA technology for long and reliable lifetime.
- Simple and robust construction for enhanced reliability and longer life.
- Available in 400 and 600 watt(230V,347V,480V) versions.

## Versions



LPPR SONTHORT 0001

## 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 |

### General Information

| | |
|---|---|
| Cap-Base | E40 |
| Operating Position | UNIVERSAL [Any or Universal (U)] |

### Light Technical

| | |
|---|---|
| Chromaticity Coordinate X (Nom) | 0.526 |
| Chromaticity Coordinate Y (Nom) | 0.420 |
| Correlated Color Temperature (Nom) | 2040 K |
| Luminous Efficacy (rated) (Nom) | 142 lm/W |
| Color rendering index (CRI) | 33 |

## Operating and Electrical

| | |
|---|---|
| Power Consumption | 645.0 W |
| Voltage (Nom) | 208 V |

## Controls and Dimming

| | |
|---|---|
| Dimmable | Yes |

## Mechanical and Housing

| | |
|---|---|
| Bulb Finish | Clear |
| Bulb Shape | T46 |

## Approval and Application

| | |
|---|---|
| Mercury (Hg) Content (Nom) | 42 mg |
| Energy Consumption kWh/1000 h | 710 kWh |

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