



**PHILIPS**

Horticulture  
LED Solutions

GreenPower TLED  
InstantFit



**Improve your  
business results** and  
save energy

Helping your business to blossom





# Philips GreenPower **TLED InstantFit**



“

**On top of energy savings**  
these parameters bring more  
profit!”

In tissue culture energy can be saved and yield can be improved by upgrading from fluorescent to LED lighting. Philips' GreenPower TLED InstantFit offers an affordable and convenient way to make the switch to LED.

**GreenPower TLED InstantFit is an effective and efficient alternative to traditional fluorescent lamps, delivering energy savings up to 45% compared to fluorescent lighting.**

LED can improve several growth parameters:

- Higher multiplication factor
- Better rooting quality
- Higher survival rate in rooting
- Improved/controlled stretching process
- Accelerate hardening phase
- Improved survival rate in greenhouse due to more hardened plants
- Shortening of the total growth cycle







2-11-15  
Do not use with dimmers  
This luminaire has been modified and is  
only suited for Green Power TLED lamps  
Only apply in dry indoor environments

Refer to:  
Application  
Guide TLED

“

**It shortens**  
the total growth  
cycle”



“

## Direct replacement, without the need for any adjustment”

In tissue culture, having the right level and mix of light in each phase of the process can make all the difference. A number of light-related factors contribute to specific plant growth and development, for instance: light intensity, light color spectrum, and hours of light exposure.

### Light Recipes

To improve growth performance dedicated light recipes are needed. GreenPower TLED InstantFit is available in two different versions, each one featuring a specific light recipe based upon Philips' years of experience in horticultural lighting.

### Reliable and safe

GreenPower TLED InstantFit is a reliable and safe solution for tissue culture growers requiring light levels of up to 100  $\mu\text{mol}$  in relatively low-humidity environments. It comes with the renowned assured quality of the Philips brand, backed up by a solid 3-year warranty. And it is glass-free, which means there are no breakage concerns. GreenPower TLED InstantFit has a 25,000 hour lifetime which reduces the need for re-lamping.

### Less heat

As LEDs produce less heat than conventional lamps, cooling costs go down with GreenPower TLED InstantFit. Less heat radiation allows tissue culture growers to light closer to the plants, which gives them the option of having more layers on the same surface area.



### Upgrade to LED

With GreenPower TLED InstantFit, switching to LED is easy. Growers replace their existing Instant Start and then click the GreenPower TLED InstantFit light source into place. Direct replacement, without the need for any adjustment.

### The perfect light – and more

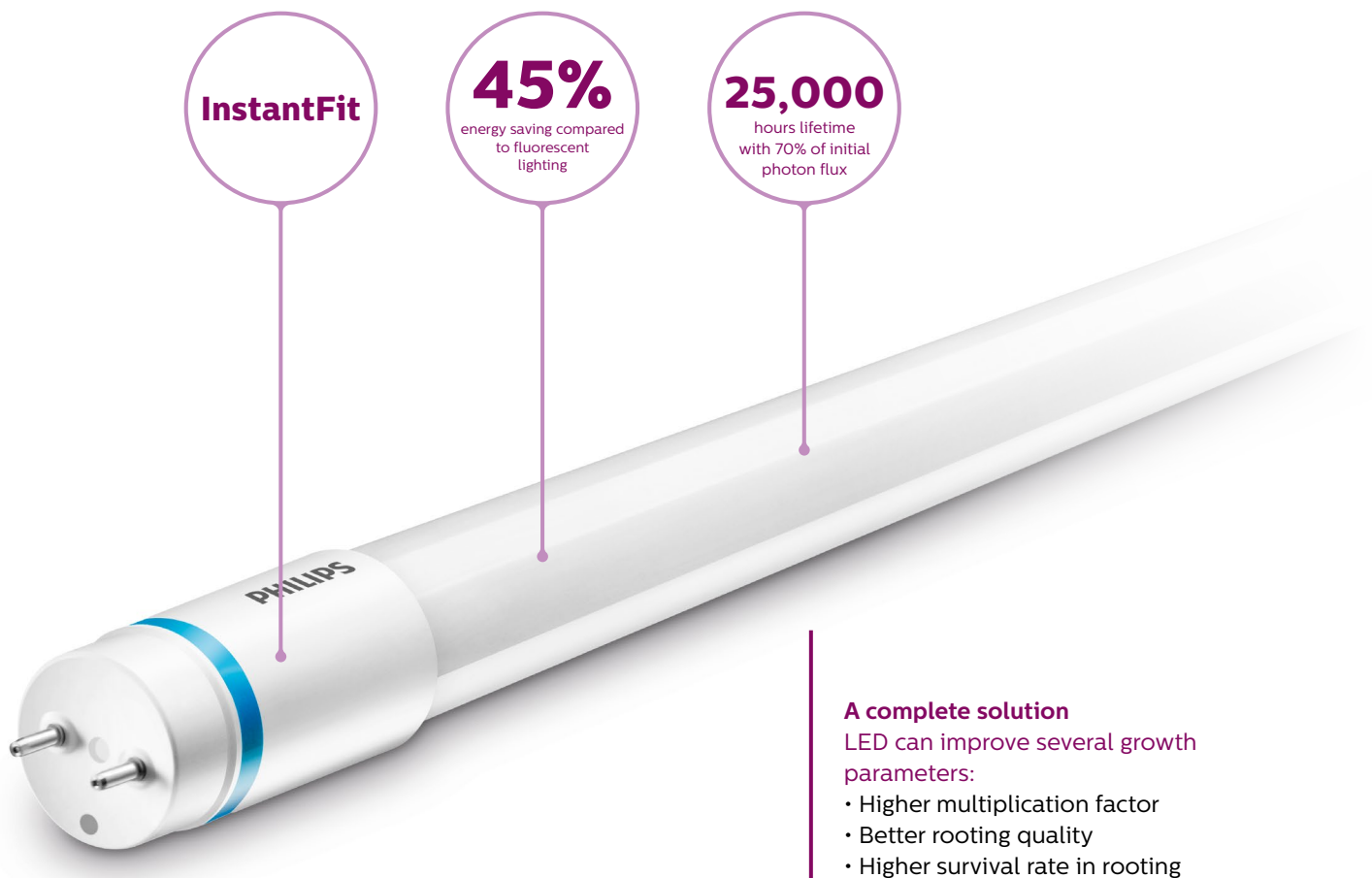
At Philips, we don't just offer top-quality products – we share our expertise with our customers as well. With our in-depth knowledge of the relationship between light and plants we can advise growers how to optimize their culture with LED. At the same time we can support them with installation guidance and light plans.



# Philips GreenPower TLED InstantFit UL/CSA

## An outstanding proposition all round

No matter what light recipe version is chosen, GreenPower TLED's high light uniformity gives tissue culture growers the added reassurance that their plants will receive the same amount of light wherever they are placed on the shelf – in the middle or on the edge – and so ultimately will all be of the same high quality.



**InstantFit**

**45%**

energy saving compared  
to fluorescent  
lighting

**25,000**

hours lifetime  
with 70% of initial  
photon flux

## A complete solution

LED can improve several growth parameters:

- Higher multiplication factor
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- Improved/controlled stretching process
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# Specifications and ordering information

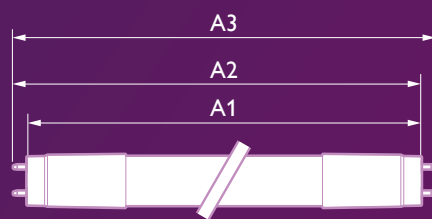
## Specifications

Product	Photon flux (typical) $\mu\text{mol/s}$	Power consumption (typical) W	Lifetime hours	Ordering code 12NC	Ordering code 6NC
<b>Deep red/white (DR/W)</b>					
GreenPower TLED DR/W 14.5W MB InstantFit UL/CSA	20	14.5	25,000	9290 008 96406	259 358
<b>Deep red/white/far red (DR/W/FR)</b>					
GreenPower TLED DR/W/FR 14.5W MB InstantFit UL/CSA	20	14.5	25,000	9290 008 96506	259 374

Lifetime and maintenance values are given at an ambient temperature of 25 °C, and a photon flux maintenance of 70%.

GreenPower TLED InstantFit is compatible only with Instant Start Ballasts. The light output and power consumption are based on the optimal (reference) driver; Philips ICN-1P32-N. The use of a different Instant Start Ballast will lead to different values in light output and (system) power consumption.

## Dimensions



\* Dimensions (in mm)



### Compliances

- IP20
- Approval mark UL/CSA
- EN 55015
- RoHS-compliant
- Quality standard ISO 9001-2000
- Environmental standard ISO 14001

Product	Dimensions (in mm / inches)			
	A1	A2	A3	D
<b>Deep red/white (DR/W)</b>				
GreenPower TLED DR/W 14.5W MB InstantFit UL/CSA	1198 / 47.2	1205 / 47.4	1212 / 47.7	27.8 / 1.1
<b>Deep red/white/far red (DR/W/FR)</b>				
GreenPower TLED DR/W/FR 14.5W MB InstantFit UL/CSA	1198 / 47.2	1205 / 47.4	1212 / 47.7	27.8 / 1.1

GreenPower LED offers a choice of two light recipes with differing content of deep red/white and deep red/white/far red:



GreenPower TLED DR/W - 14.5 W MB InstantFit UL/CSA



GreenPower TLED DR/W/FR - 14.5 W MB InstantFit UL/CSA



## More than a product, it's a complete solution

The Philips GreenPower TLED InstantFit UL/CSA offers all the proven benefits of LED technology and – as a complete solution – much more besides.

- Quick and easy installation
- Support and advice from technical experts
- Advice on which lighting strategies are best for your situation



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01/2015  
Data subject to change

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