

# MORE EFFICIENT, MORE FUNCTIONAL, MORE COMPACT, LIGHTER AND SMARTER!



The MKII is standard equipped with the Ultra Optics Hybrid 98 reflector. This reflector ensures both deep light penetration into the crop and a large overlap with other fixtures for better uniformity. The Hybrid reflector is the ideal reflector for most applications.

The Ultra Optics Hybrid 98 reflector is easy to remove, clean, or replace with another type of reflector from the Ultra Optics range to achieve the most efficient configuration for your crop.



The rotary knob has been replaced by a push button with which the status can be set on the new 4 digit display. The status and error codes are now displayed in full instead of with a code.

The Dimlux Expert MKII is equipped with an extra interconnect port (Smartport) that can be used universally.

Another ballast can be connected to the Dimlux Expert MKII, but also, for example, a plant temperature camera or humidity sensor.

**THE FUTURE OF GROWING  
JUST GOT BRIGHTER.**



# INTRODUCING THE NEW DIMLUX EXPERT SERIES MKII



PPF @ 1200W  
2528µmol/s

PPF @ 720W  
1408µmol/s

Highest reflector efficiency in the horticultural industry!

**98%**

Our new ballasts have an increased efficiency up to

**30%**

Made in Holland [www.dimlux.nl](http://www.dimlux.nl)



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JUST GOT BRIGHTER.**

# DIMLUX

## EXPERT SERIES

The MKII upgrade is a more efficient, functional and smarter light fixture. Because the electronics produce less heat, the ballast housing is more compact, the ballast is even more efficient, lighter and smarter.

### 8 DIM OPTIONS WITH 2 SPECIAL "BOOSTS"

Status and alarms will be displayed on this display. The DimLux Expert Series MKII ballast achieves the highest possible light output due to the overdrive technology (boost). This makes it possible to get a higher percentage light output.

**Single push button for setting the power output: Dimlux Expert 1000W** in steps of 500, 600, 700, 800, 900, 1000, 1100, 1200W.

**Dimlux Expert 600W** in steps of 320, 390, 460, 530, 600, 660, 720W.

### EASY REMOVABLE ULTRA OPTICS REFLECTOR

Standard equipped with the Ultra Optics Hybrid 98 reflector. This reflector has the highest reflector efficiency in the market with 98% total efficiency, achieved through Miro 98 (99.99% silver) and the SBCS (Single Bounce Clear Sight) principle.

Easy to replace with the Ultra Optics Wide 98 reflector or Ultra Optics Deep 98 reflector. Both reflectors have a 98% efficiency just like the Ultra Optics Hybrid 98.

The main goal in designing the Ultra Optics

Reflector was to achieve the highest efficiency (light output) possible. It's designed according to the SBCS (Single Bounce Clear Sight) principle which means that each light ray reflects only a single time in the reflector before exiting (Single Bounce).

After reflection, the beam is not hindered by the lamp or other parts (Clear Sight). The design from the reflector is optically perfect so that no hammered or textured pattern is needed to spread hotspots. Hammered or textured reflective reflectors are made to improve uniformity, but create undesirable multiple reflections inside the reflector and cause reflections from the reflector to the lamp causing a decrease in efficiency. These techniques used in our reflector combined with the use of Miro Silver mirror will provide unparalleled results.



### WE MEET THE CALIFORNIA SPECIFICATION WITH THE HIGHEST EFFICACY (PPE) OF 2.1 μMOL/J

The new MKII fixture together with our new DXO CA spec lamp is the only combination in the world to have a system efficacy (PPE) of more than 2.1 μmol/J, an unprecedented performance that was thought to be impossible to achieve. Most competing brands do not reach the 1.8 μmol/J, and only a few reach the 1.9 μmol/J.

Highest reflector efficiency in the horticultural industry!

**98%**

Our new ballasts have an increased efficiency up to

**30%**

### FEATURES

- Unparalleled and highly efficient ballast driver: 97% efficient, 30% less losses, lighter and 30% more compact than the old Dimlux Expert Series 1000W.
- Standard equipped with the Ultra Optics Hybrid 98 reflector. This reflector has the highest reflector efficiency in the market with 98% total efficiency, achieved through Miro 98 (99.99% silver) and the SBCS (Single Bounce Clear Sight) principle.
- Easy to replace with the Ultra Optics Wide 98 reflector or Ultra Optics Deep 98 reflector. Both reflectors have a 98% efficiency just like the Ultra Optics Hybrid 98.
- Single push button for setting the power output **Dimlux Expert 1000W** in steps of 500, 600, 700, 800, 900, 1000, 1100, 1200W. **Dimlux Expert 600W** in steps of 320, 390, 460, 530, 600, 660, 720W.
- 4-Character status display with scrolling text. Status and error codes are fully displayed on this display.
- Closed ballast design, for better protection of the electronics.
- Controllable with current Maxi Controller and the upcoming Smart Protocol platform.

## EXPERT SERIES 600W MKII



### SPECIFICATIONS DIMLUX EXPERT SERIES 600W MKII

Voltage:	230V ±10V
Input Power @100%:	621W
Input Current @100%:	2.7A
Input Power @ boost:	758W
Input Current @ boost:	3.27A
Input Frequency:	50/60Hz
Power Factor:	0.99
System PPF:	1408 μmol/s @720W
Ultra high freq. (UHF):	Yes
Controller:	Maxi Controller
Dimensions:	550 × 275 × 130mm
Weight:	5.1kg
Lamp:	Philips Greenpower 600W 400V EL

## EXPERT SERIES 1000W MKII



### SPECIFICATIONS DIMLUX EXPERT SERIES 1000W MKII

Voltage:	230V ±10V
Input Power @100%:	1035W
Input Current @100%:	4.5A
Input Power @ boost:	1242W
Input Current @ boost:	5.4A
Input Frequency:	50/60Hz
Power Factor:	0.99
System PPF:	2528 μmol/s @1200W
Ultra high freq. (UHF):	Yes
Controller:	Maxi Controller
Dimensions:	675 × 275 × 130mm
Weight:	6.3kg
Lamp (included):	Philips Greenpower Extra 1000W DE 400V
Lamp (optional):	Dimlux Xtreme Output DXO / CA California Spec 400V DE