

DIMLUX PRO

PROFESSIONAL HORTICULTURE LIGHTNING SOLUTION



**REMOVABLE ULTRA
OPTICS REFLECTOR**



**4 DIGIT DISPLAY WITH
BOOST FUNCTION**



DIMLUX PRO SERIES



Dimlux develops and manufactures tailored lighting solutions urban farming and small scale production and large scale horticulture. With decades of experience our engineers have combined the newest techniques and innovations to create the most advanced complete lighting system on the market on the market today.

The dimlux Pro has a passively cooled Ultra Optics reflector in order to get the optimum lamp temperature and highest light output. By using Miro 95 (99,99 aluminium) instead of Miro Silver for the reflector, we prevent deterioration in high humidity when scratched. The Ultra Optics reflector is available in 3 different styles of reflectors, Hybrid (default), Deep and Wide and can be changed quickly and easily, even at high heights.

The ballast is ready for the new digital controller platform, and is upgradable. The Pro series has a closed ballast instead of an open ballast. This protects the ballast from moisture. The Geo Membrane equalizes the pressure inside and outside the ballast, while still preventing condensation

on the electronics. The vertically mounted ballast will decrease the amount of daylight which is blocked by the fixture. We have done daylight simulations in CAD and this design had the least light interception during a full daylight cycle.

The output of the Dimlux Pro Series can be controlled up to 115%, both by using the dim button and by remote control. With the manual power settings 500, 600, 700, 800, 900, 1000, 1075 and 1150W you have a wide range of settings available.

Status and alarms are displayed on a Four-character display making your Dimlux Pro even more easy to use.

DIMLUX

PRO SERIES

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CLOSED & VERTICAL BALLAST

The Pro series has a closed ballast instead of an open ballast. This protects the ballast from moisture. The ballast is mounted vertically to decrease the amount of daylight which is blocked by the fixture. We have done daylight simulations in CAD and this design had the least light interception during a full daylight cycle.

SMART BALLAST

The ballast is software upgradable and ready for the new digital controller platform.

GEO MEMBRANE

This to equalize the pressure inside and outside the ballast, this is to prevent moisture getting into the ballast when cooling off.

4 DIGIT DISPLAY WITH A DIM SWITCH AND BOOST

Status and alarms will be displayed on this display. The Dimlux Pro Series can be remote controlled and controlled with the dim switch and with a 1000W bulb and in boost it can go up to 1150W.



EASY REMOVABLE ULTRA OPTICS REFLECTOR

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DIMLUX PRO SERIES



PASSIVELY COOLED ULTRA OPTICS REFLECTOR

In order to get the optimum lamp temperature and highest light output. Available with 3 different styles of reflectors, Hybrid (default), Deep and Wide.

MIRO 95

The fixture has a Miro 95 (99,99 aluminium) instead of Miro Silver reflector. Silver could deteriorate in high humidity when scratched.

SBCS

Single Bounce Clear Sight reflector design for the highest efficiency and light output.

EASILY CHANGEABLE REFLECTOR

The reflector can be changed quickly and easily, even at high heights.

SPIRIT LEVEL

Because the illuminated surface in a greenhouse is much bigger than indoors, leveling the Pro series is more important to create good uniformity and to prevent shadows.

WHITE COLOR

In order to prevent overheating the ballast by light absorption, and to reflect more usable light to the canopy instead of absorbing it.

PROTECTIVE MAGNETIC LAMP HOLDER CAPS

These caps prevent touching the lamp holder when the lamp is hot. It is both an electrical and fire safety measure. It also assures the lamp holder is properly closed when the caps are installed.

DIM BUTTON

The output of the Dimlux Pro Series can be controlled up to 115%, both by using the dim button and by remote control.

MANUAL POWER SETTINGS

500, 600, 700, 800, 900, 1000, 1075 and 1150W.

FOUR-CHARACTER DISPLAY

4-character status display with scrolling text. Status and error codes are fully displayed on this display. Status and error codes are now complete instead of a cryptic number.

DIMLUX PRO SERIES



Voltage:	240V	277V
Input Power @100%:	1035W	1032W
Input Current @100%:	4.5A	3.7A
Input power @boost:	1242W	1187W
Input Current @boost:	5,4A	4.25A
Input Frequency:	50/60Hz	50/60Hz
Power factor:	> 0,95	> 0,95
System PPF@1000W:	2016 μ mol/s	2016 μ mol/s
System PPE@1000W:	1,95 μ mol/J	1,955 μ mol/J
System PPF@1150W:	2339 μ mol/s	2339 μ mol/s
System PPE@1150W:	1,96 μ mol/J	1,97 μ mol/J
Ultra High Frequency (UHF):	Yes	Yes
Controller:	By WiFi – Maxi controller	By WiFi – Maxi controller
Measurements:	538x248x115mm	538x248x115mm
Weight:	4,1kg	4,1kg
Power cord:	4m IEC-240V plug	2m EP030-open leads
Available for markets:	EU - CAN	US - CAN

DIMLUX

ULTRA OPTICS REFLECTORS



A COMPLETE NEW RANGE OF REFLECTORS TO MEET EVERYONE'S NEEDS.

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 beam reflects only one single time in the reflector and then goes out directly (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 and create undesirable multiple reflections inside the reflector and cause internal 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



ULTRA OPTICS HYBRID 98%

The Hybrid reflector ensures a deep penetration into the plants, while having a larger overlap with other fixtures for better uniformity. The area it illuminates has an aspect ratio of 1.3:1. This reflector is the ideal choice for many scenarios because it combines the best qualities of the Deep and Wide reflectors. This reflector can be used for all types of crops.



For a fixture spacing of 1.2 by 1.6 meter (1.92m²), the recommended reflector height is 80cm

WANT TO KNOW MORE ABOUT OUR ULTRA OPTICS REFLECTOR RANGE?

You find all the information you need on dimlux.nl/ultra-optics-reflectors or use the QR get all the information.



ULTRA OPTICS DEEP 98%

The Deep reflector allows the light to penetrate very deep into the canopy. Because the Deep reflector directs more light downwards and less to the sides, losses due to walls and walking paths are minimized. The area it illuminates has an aspect ratio of 1:1, square.



This reflector can be used for plants taller than about 75cm, or have a very closed canopy (less plant spacing, more bushy plants). This is also ideal for use in a growing tent, where there would be more wall reflection-losses than in a larger room.

For a fixture spacing of 1.4 by 1.4 meter (1.96m²), the recommended reflector height is 100cm.



ULTRA OPTICS WIDE 98%

The Wide reflector illuminates a much wider area, which allows for a very short distance between the plants and the reflector. Because of the wider spread, the distance between the crop and reflector for the 1000W fixture is about the same as a regular 600W system. The area it illuminates has an aspect ratio of 2:1, a rectangle. The large side of the rectangle is perpendicular to the lamp. This reflector can be used for plants shorter than about 75cm, or have a very open canopy (more plant spacing, less bushy plants). This is also ideal for rooms with a very low ceiling, or which have a rectangular cultivation surface.



For a fixture spacing of 1 by 2 meter (2m²), the recommended reflector height is 60cm.

The Wide reflector is also ideal for combining HID fixtures with LED fixtures.