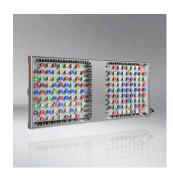
## **Light is OSRAM**

# **OSRAM**

## PHYTOFY<sup>®</sup>

Designed for the research and development of plant-specific light recipes. Independent control and scheduling of each LED color channel.



## **Specifications**

PPFD in µmol m<sup>-2</sup> s<sup>-1 1)</sup>

LED **Light Source** 

**Spectrum** 385 nm, 450 nm, 521 nm, 660 nm, 730 nm, 2700 K PPF in µmol s<sup>-1 1)</sup>

UV 53, Blue 252, Green 96, Hyper Red 245,

Far Red 114, 2700 K 215

UV 50, Blue 250, Green 100, Hyper Red 250,

Far Red 100, 2700 K 250

**Input Power** Max 150 W

**Input Voltage** Autosensing 100-240 V, 50/60 Hz

**Dimming** PWM 10-100 %, individually per LED channel **Networking** Wired Ethernet or Wi-Fi, RS485 protocol

Interface OSRAM User Interface

**Thermal Management** Passive cooling **Operating Temperature** 0 °C to + 35 °C

**IP Rating** IP54

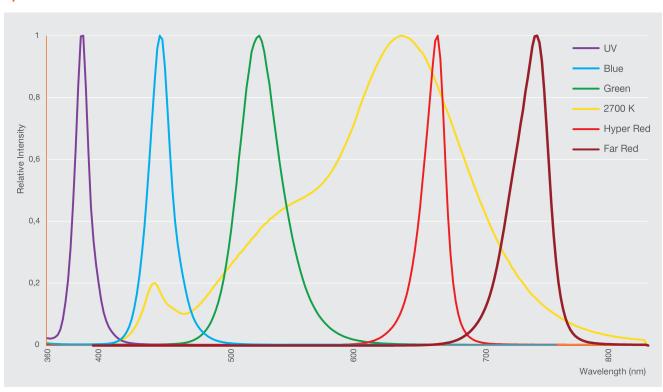
**Fixture Dimensions** 667 x 299 x 44 mm | 26,2" x 11,8" x 1,7" (I x w x h)

**Fixture Weight** 8,9 kg | 19,6 lbs Lifetime 25.000hrs L<sub>70</sub>B<sub>50</sub><sup>2)</sup>

Certification CE, UL

1) Specific for three-fixture system with center-center fixture spacing of 406 mm (16") and canopy 406 mm (16") below fixtures.  $2)\ L_{70}B_{50}\ is\ taken\ to\ be\ the\ operating\ life\ during\ which\ the\ luminous\ flux\ is\ greater\ than\ or\ equal\ to\ 70\ \%,\ for\ 50\ \%\ of\ the\ population.$ 

## **Spectral Distribution**



### **System Features**

- Tunable LED system with six different channels.
- The variable spectra can be used for far red end-of-day light, UV light supplementation, night-interruption, etc.
- Advanced software, designed with plant biologists, to schedule different light treatments throughout photoperiod and/or plant life-cycle.
- Precise irradiance map, calculated by the software no quantum flux measurements required.
- Thin and robust form factor, ideal for growth chambers, racks and vertical farm operations.
- Perfect choice for developing light recipes, allowing growers and researchers to improve flavor, nutrition profile and overall production.



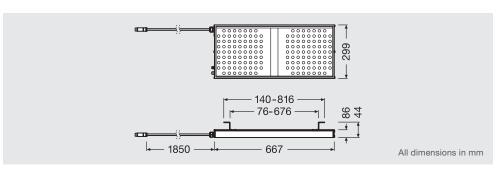
#### **System Diagram** Wired Ethernet or WiFi **Power Supply** communication from computer to router Phytofy® RL Each fixture provided with IN and 000000 000000 OUT port to next fixture 000000000 000000000 in sequence 000000000 000000000 - Chain up to 100 fixtures from one 000000000 000000000 port (maximum total length for 000000000 000000000 RS485 line with 1 Mb/s should 000000000 000000000 not exceed 120 m (393') in total) 000000000 000000000 000000000 000000000 0000000 0000000 Computer $(\downarrow)$ **Download Software** MOXA® NPort® Router

## **User Interface**

- Design a fixture layout in the software to match your system set-up.
- Create light recipes for a certain time of the day. For example, add far red at the end of the day, give a brief duration of UV light or interrupt nights by sliding bars or entering the desired PPFD values.
- Observe irradiance map to insure desired PPFD is being achieved throughout the research project.







## PHYTOFY® RL

Family	Power Cord	End	Mounting	EAN
PHYTOFY® RL	3 m   9.8'	Open wire	Mounting bracket, power supply, slot stone, screws and washers, Ferrite core, signal cable (1m   3.3')	4062172040310
Moxa® NPort®	1 m   3.3'	EU CEE 7/7 NEMA 5-15 BS1363	End terminator, signal cable (5 m) End terminator, signal cable (16.4') End terminator, signal cable (16.4')	4062172038690 4062172038683 4062172058407
Signal Cable 3m / 9.8' -		Circular M12		4062172065474
Signal Cable 5m / 16.4' -		Circular M12		4062172065498

## **Light recipes**

Are you interested in receiving light recipes for free? Register your PHYTOFY® RL at <a href="www.osram.com/phytofy">www.osram.com/phytofy</a> and download five light recipes for the most common plants and herbs.



In case you have questions concerning the product, please contact us at <a href="horticulture@osram.com">horticulture@osram.com</a>.

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