

# OCTAMOL GREENHOUSE LIGHTING LUMINAIRE



- High Efficacy up to 2.7  $\mu\text{mol}/\text{J}$
- High PPF output for high intensity 2160  $\mu\text{mol}/\text{s}$
- Optimized Full Spectrum, Customized Spectrum
- Slim design, small packing, easy installation-plug & play
- Dimmable: 100%-75%-50%-25%
- IP65 Waterproof

# OCTAMOL GREENHOUSE LIGHTING LUMINAIRE



## Fields of Application



Greenhouses



Seed Cultivation



Plant Growing Booths



Coral Cultivation



Stadium Grass Reinforcement



Soilless Agriculture Applications

## General Information

Having a modular design, an innovative cooling solution, IP65 protection class and industrial durability, OCTAMOL is an industrial greenhouse fixture designed to realize the dreams of industrial greenhouse owners and industrial growers and to provide high efficiency especially in autumn and winter seasons.

Designed to work both indoors and in greenhouses, OKTAMOL is available in a range of different modules and spectral options, making it the most versatile grow light on the market.

One of the biggest costs in greenhouses is the energy cost. While OKTAMOL provides high energy efficiency, you can be sure that it will provide excellent lighting for any plant growing with an efficiency of up to  $2.7 \mu\text{mol}/\text{J}$ , which consists of market-leading LEDs. Powered by industrial drives and automation capability to maximize your harvest and production. A versatile light solution is available, available in three different spectral variants.



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## Standard Product Features

<b>Body</b>	Corrosion Res. High pressure Aluminium Injection
<b>Spektrum</b>	Full Spectrum
<b>Light Output PPF</b>	2160 umol/s
<b>Efficacy</b>	2.7 umol/J
<b>IP Class</b>	IP65
<b>Mounting Height</b>	6" - 12" + < 40 " (15,2-30,5cm + < 1m) Top of the Canopy
<b>Thermal Management</b>	Passive

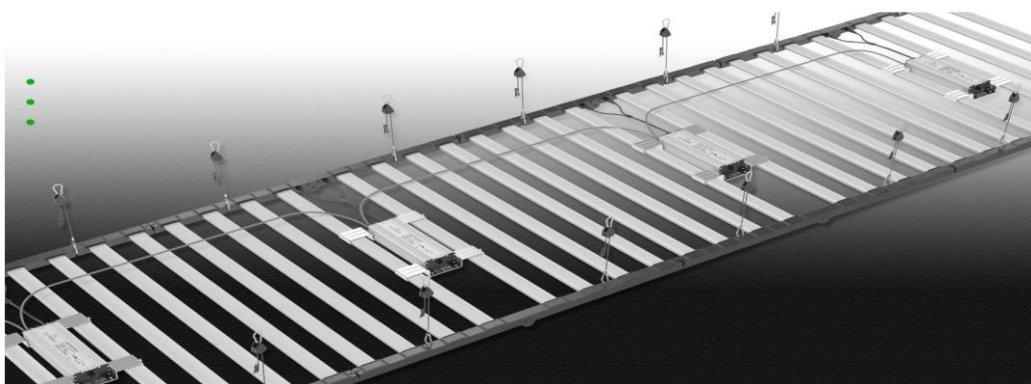
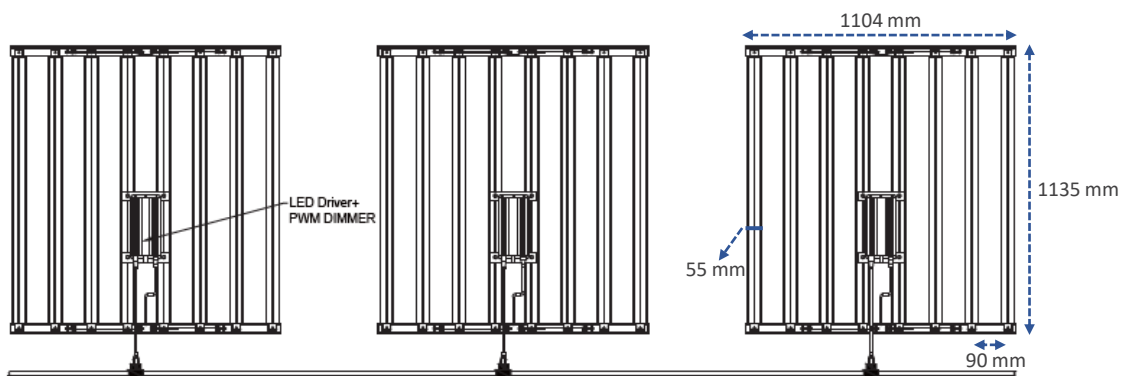
## Optical and Electrical Properties

<b>Power</b>	800 W	<b>Input Frequency</b>	50-60 Hz
<b>Light Source</b>	Samsung / Prolight	<b>Power Factor</b>	> 0,9
<b>Optic</b>	120°	<b>Surge Protection Options</b>	6 kV - 10 kV (optional)
<b>Input Voltage</b>	100-277 V AC	<b>Wavelength</b>	Full Spectrum

## Other Specifications

<b>Operating Temperature</b>	-20°C / +35°C	<b>Automation Systems</b>	DALI, 1-10V,
<b>Impact Resistance</b>	IK 08 – IK 10 (optional)		
<b>Lifespan – L70</b>	50.000 hours		

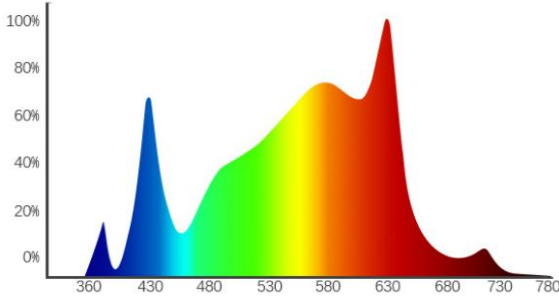
## Technical Drawing and Wiring Diagram



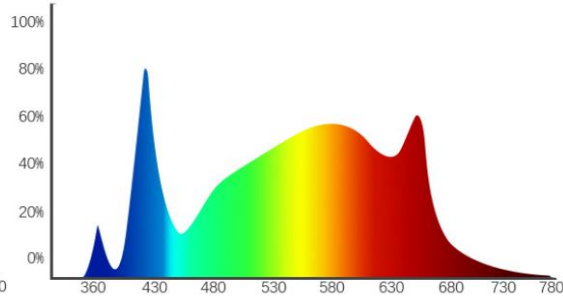
# OCTAMOL GREENHOUSE LIGHTING LUMINAIRE

## Light Source Spectrum Test Report

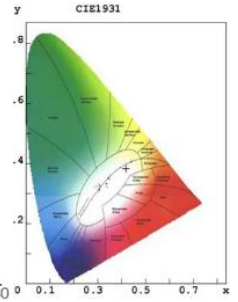
Flower Spectrum



Vegetable Spectrum

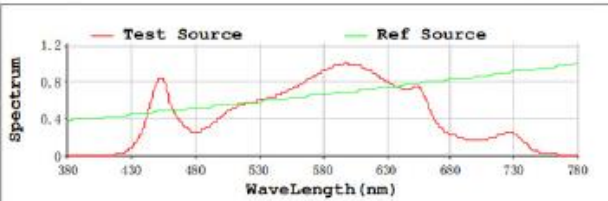


Chromaticity

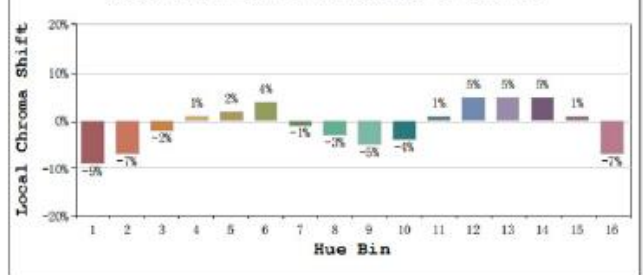


SPECTRAL POWER DISTRIBUTION COMPARISON

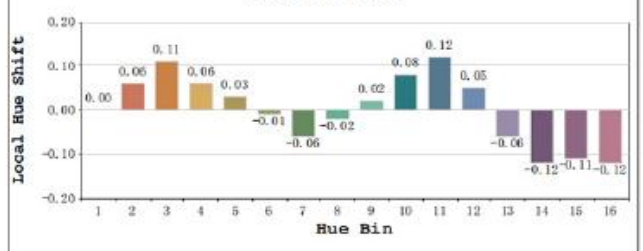
Rf: 86 CCT: 3466 K u': 0.2377  
Rg: 98 Duv: -0.0024 v': 0.5087



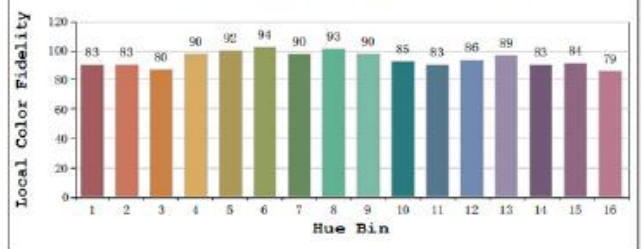
COLOR RENDITION BY HUE (Change of Chroma)



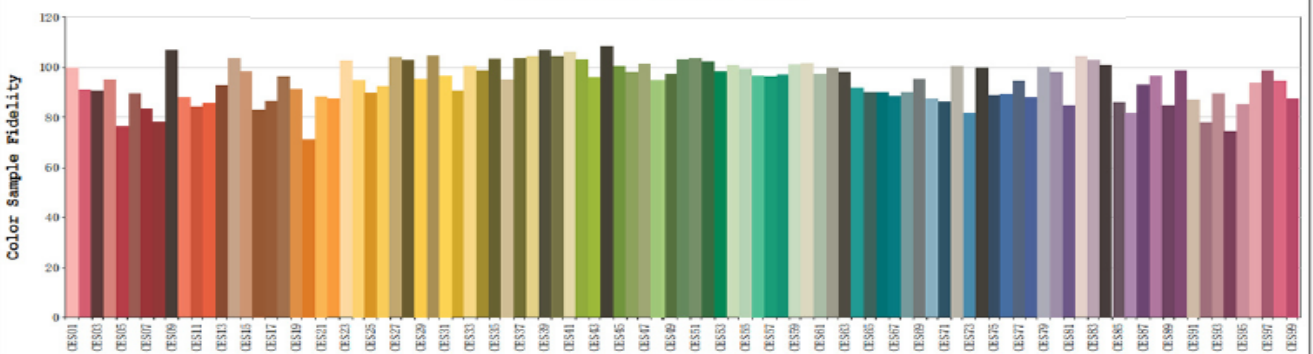
Local Hue Shift



COLOR RENDITION BY HUE (Fidelity Index)



Color Sample Fidelity Index



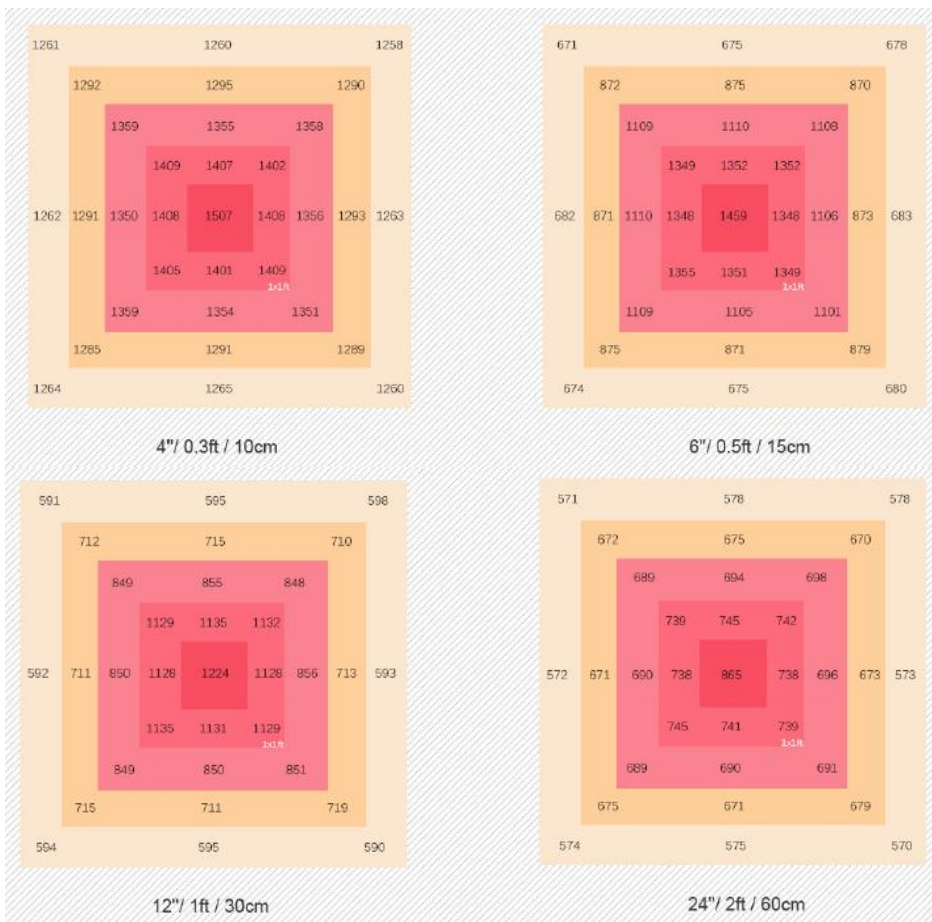
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## Dim Range (Control)

1-10V Dimming



## Photon Flux Distribution



# OCTAMOL GREENHOUSE LIGHTING LUMINAIRE

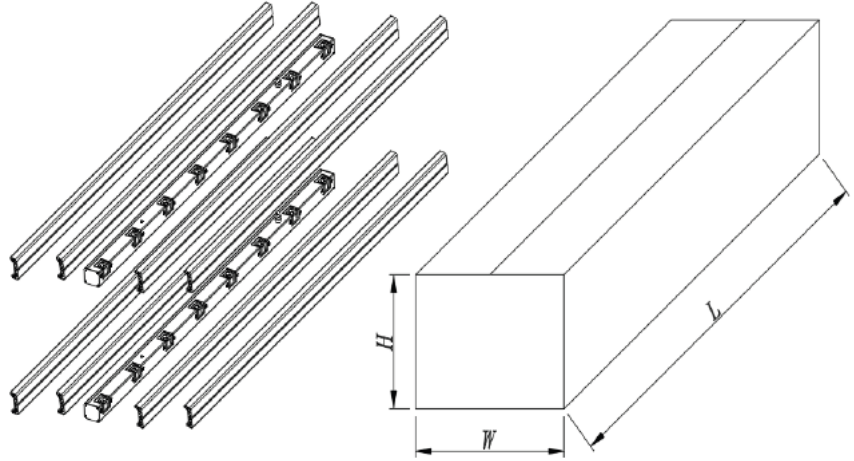
## Box Contents and Assembly Instructions

### Packaging Information

Box Sizes: **L1180\*W250\*H245mm**

Net Weight: **14 kg**

Gross weight: **19.9 kg**



### Mounting Instruction



- 8 LED Bars coming out of the box are arranged on the power distribution line in order.
- It is installed by paying attention to the power input connection and directions of the LED Bars and fixed with the bolt.
- The driver is screwed into the mounting slot in the middle of the 4th and 5th LED Bar.
- The dim range to be synthesized is adjusted gradually with the pot on the driver.
- 2 different suspension chains are attached to the suspension apparatus with carabiner.
- The end point of the chains is fixed to the area to be mounted with eyebolts.