

BIOLED

HIGH POWER HEAVY DUTY
HORTICULTURE LIGHT



**CREATING LIFE
WITH LIGHT**

tzubavision

eco light systems ltd

OSRAM
LED TECHNOLOGY INCLUDED

BIOLED

HIGH POWER HEAVY DUTY
HORTICULTURE LIGHT

Grow anything, anywhere

- Increased production
- Briefer growth cycle
- Improved plant quality
- Avoiding weather risks
- Saving energy, water and space
- No fumigation
- Better germination rate
- Accelerated hardening time

Maximize income, minimize risks



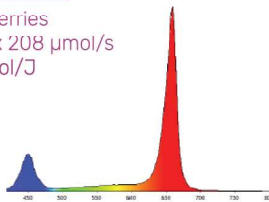
- Best horticultural light on the market
- Outstanding efficiency and performance
- Easily expandable in serial or parallel – up to 1 kW
- Available in 7 wavelength combinations
- Adaptable to all kinds of crops

BIOLED TYPES AND SPECTRUM VALUES

Based on BIOLED 100, 210 cm length. Driving current on LEDS 390 mA. Operating temp <65°C

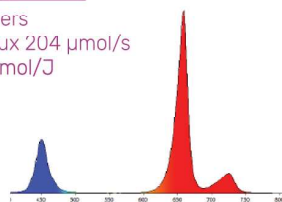
BIOLED STR

STR 100-strawberries
Total photon Lux 208 $\mu\text{mol/s}$
Efficacy 2.76 $\mu\text{mol/J}$



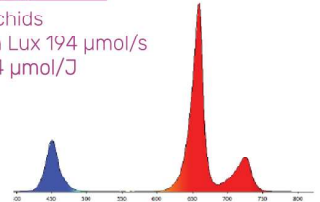
BIOLED PPR

PPR 100-peppers
Total photon Lux 204 $\mu\text{mol/s}$
Efficacy 2.92 $\mu\text{mol/J}$



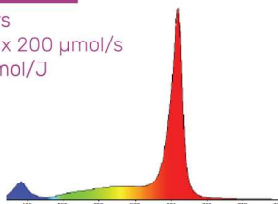
BIOLED ORC

ORC 100-orchids
Total photon Lux 194 $\mu\text{mol/s}$
Efficacy 2.84 $\mu\text{mol/J}$



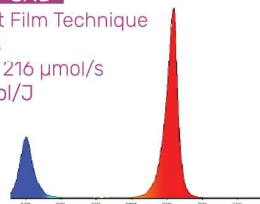
BIOLED FLW

FLW 100-flowers
Total photon Lux 200 $\mu\text{mol/s}$
Efficacy 2.58 $\mu\text{mol/J}$



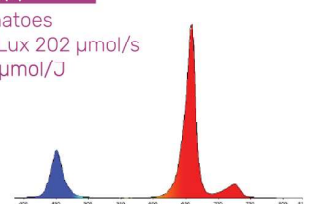
BIOLED NFT/ CNB

NFT 100-Nutrient Film Technique
CNB 100-Cannabis
Total photon Lux 216 $\mu\text{mol/s}$
Efficacy 2.98 $\mu\text{mol/J}$



BIOLED TOM

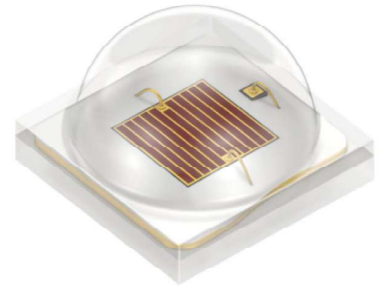
TOM 100-tomatoes
Total photon Lux 202 $\mu\text{mol/s}$
Efficacy 2.89 $\mu\text{mol/J}$





THE BEST LED

OSRAM OSOLON SSL
 High-power LED with larger chip and improved radiant flux offers best-in-class efficiency for plant lighting in commercial greenhouses
 Most efficient ceramic LED > 2.98 $\mu\text{mol}/\text{j}$



THE BEST DRIVER

Embedded proprietary switching driver
 Dimmable
 Efficiency > 95%
 Life span > 50,000 hours
 PF > 0.93
 Low temperature
 Heavy Duty ceramic capacitors
 Electronic thermal protection



THE BEST BODY

Lightweight and modular Polycarbonate body
 Designed for the most extreme environments
 UL 94 V-0 flame retardant
 IK 10 impact resistant
 IP 67 water and dust proof
 Suitable for hanging and/or attaching to any surface
 UV stabilized



BIOLED APPLICATIONS

Ordering Information

BIOLED	GROW TYPE	POWER	LENGTH	CAT. NO.
NFT 50	NFT	47w	105 cm	P5100042
FLW 50	Flowers	48w	105 cm	P5100043
ORC 50	Orchids	45w	105 cm	P5100044
PPR 50	Peppers	46w	105 cm	P5100045
STR 50	Strawberries	47w	105 cm	P5100046
TOM 50	Tomatoes	46w	105 cm	P5100047
CNB 50	Cannabis	49w	105 cm	P5100048
NFT 100	NFT	94w	210 cm	P5100049
FLW 100	Flowers	96w	210 cm	P5100050
ORC 100	Orchids	90w	210 cm	P5100051
PPR 100	Peppers	92w	210 cm	P5100052
STR 100	Strawberries	94w	210 cm	P5100053
TOM 100	Tomatoes	93w	210 cm	P5100054
CNB 100	Cannabis	98w	210 cm	P5100055

tzubavision

eco light systems ltd

tzubavision eco light systems ltd. is well known for its outstanding lighting products. It became an innovative leading world player in research, development and manufacturing of horticultural LED technology.

tzubavision cooperates with Osram Optoelectronics, its chief supplier of LEDs, The company provides horticultural light systems and solutions for integrators, agrotechnology designers and providers.

tzuba vision is a subsidiary of Kibbutz Tzuba, one of Israel's largest and most successful agro-industrial cooperatives.



R&D DEPARTAMENT



INDUSRIAL & MILITARY LIGHT



HORTICULTURE SYSTEMS



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