

PURE LIGHT LED PRODUCTS

# HORTICULTURE LIGHTING

Modular horticultural led lights designed for plant growth, seeding, flowering and fruiting. Scalable from single bar to modular design, able to satisfy needs of any cultivators from home based to large-scale industrial green-house farming projects

# GREEN MASTER

Photon Flux Efficacy	2,87μmol/J /360-780nm
Operating Voltage	196 ~264VAC
Overvoltage Protection	320V AC, 48h
Burst/Surge Protection	2kV to 4kV
Power Factor	> 0.97
Driver	Internal, industrial
Thermal Management	Passive
Optics	30°, 60°, 90°
Dimming	1% to 100% (DSI, DALI2)
LED Code	L80B10



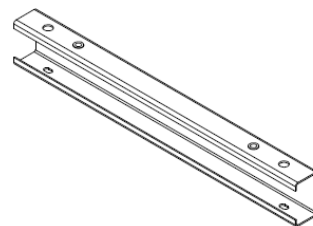
## SINGLE BAR

Model	Power	Length
Green Master 1	34W	260mm
Green Master 2	67W	525mm
Green Master 3	100W	790mm
Green Master 4	137W	1055 mm
Green Master 5	170W	1315 mm



## FRAME FOR MODULAR DESIGN

Model	Length
Frame for 2 lights	370mm
Frame for 3 lights	560mm
Frame for 4 lights	740mm



## AUTOMATION

AWADA

AWADA light management system offered for large scale commercial installation. System automatically follows predetermined schedule and adjust brightness. Easily set and controlled via smart phone or tablet

## ACCESSORIES

Luminaires supplied with mounting accessories, enabling easy and fast installation on any surface, cabling tray or P2000 trunking. Suspension kit with adjustable length cables provided for suspension installations.

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# GREEN BASE

Photon Flux Efficacy	2,26 $\mu$ mol/J /360-780nm
Operating Voltage	196 ~264VAC
Overvoltage Protection	320V AC, 48h
Burst/Surge Protection	2kV
Power Factor	> 0.97
Driver	Internal, industrial
Thermal Management	Passive
Optics	60°, 90°, symmetric
Dimming	1% to 100% (DSI, DALI2)
LED Code	L80B10



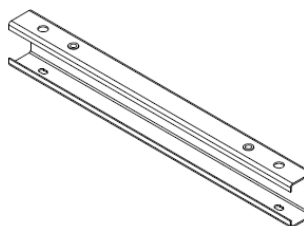
## SINGLE BAR

Model	Power	Length
Green Base 1	22W	600mm
Green Base 2	43W	1720mm
Green Base 3	64W	1720mm



## FRAME FOR MODULAR DESIGN

Model	Length
Frame for 2 lights	370mm
Frame for 3 lights	560mm
Frame for 4 lights	740mm



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## **COOK HORTICULTURAL**

Year: 2020, July  
Apple Trees, Cape Town  
Lights installed: Green Master 4x2

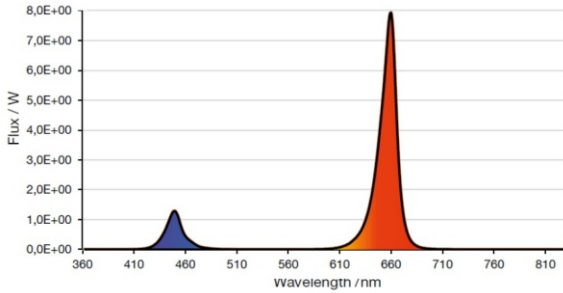
# RECIPES



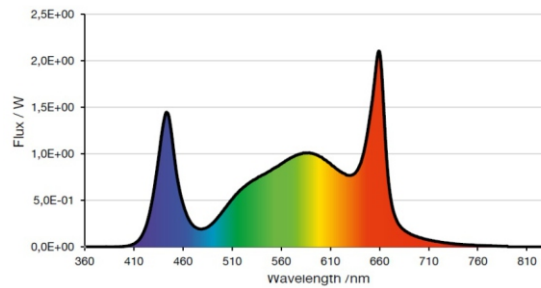
## for plant growth

Efficient creation of photons in photo synthetic active region of 400-700nm. Especially in high absorption region around 450nm and 660nm

with supplemental light



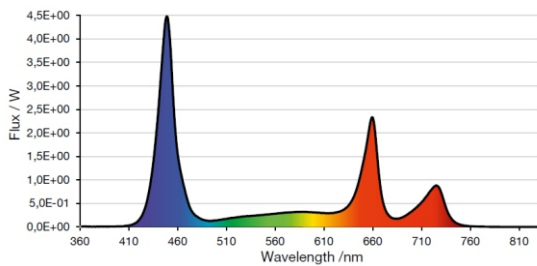
without supplemental light



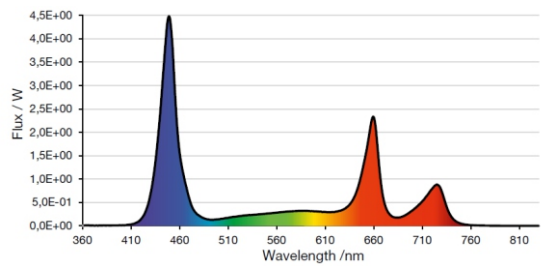
## for seeding

Seedlings need high blue content (450nm) to start germination and sprouting. This can also be supported by far red light (730nm)

with supplemental light



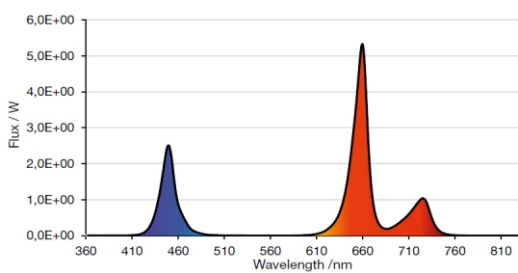
without supplemental light



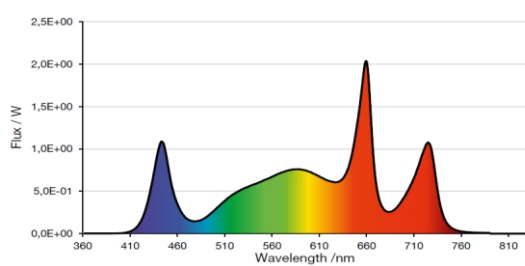
## for FLOWERING

To induce flowering a significant content of far red light (730nm) is necessary. Most important for flowering time is day length

with supplemental light



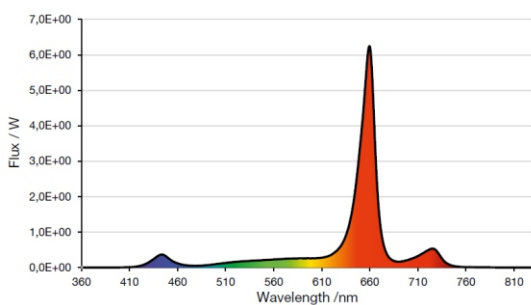
without supplemental light



## for FRUITING

During fruiting the plant needs a high amount of energy to create the fruit body. A high amount of light for photosynthesis should be provided

with supplemental light



without supplemental light

