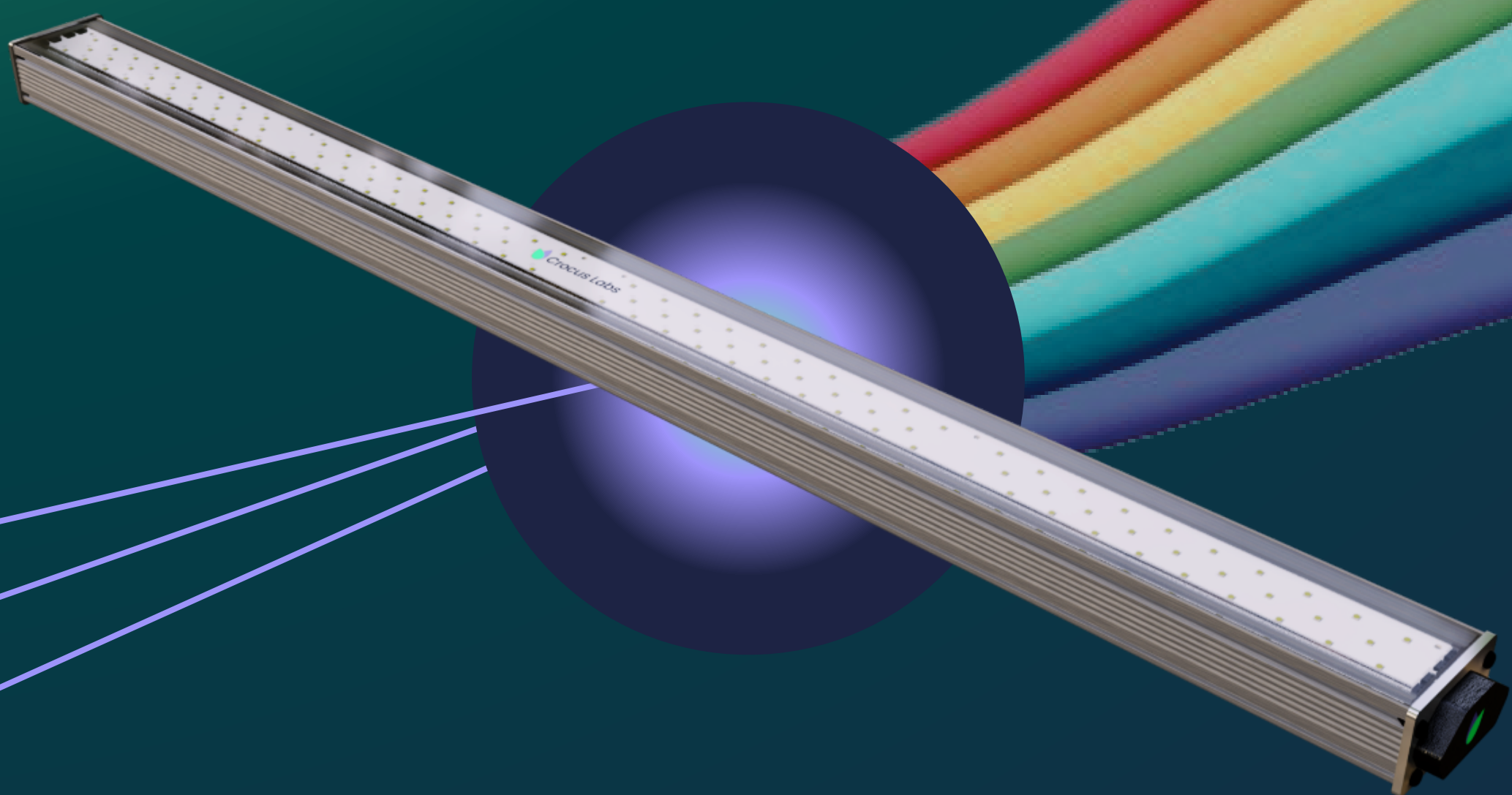




SIRIUS X.3

Yield & quality go up,
energy costs go down



Unlimited tunability & full control for any
crop with one product

SIRIUS X.3

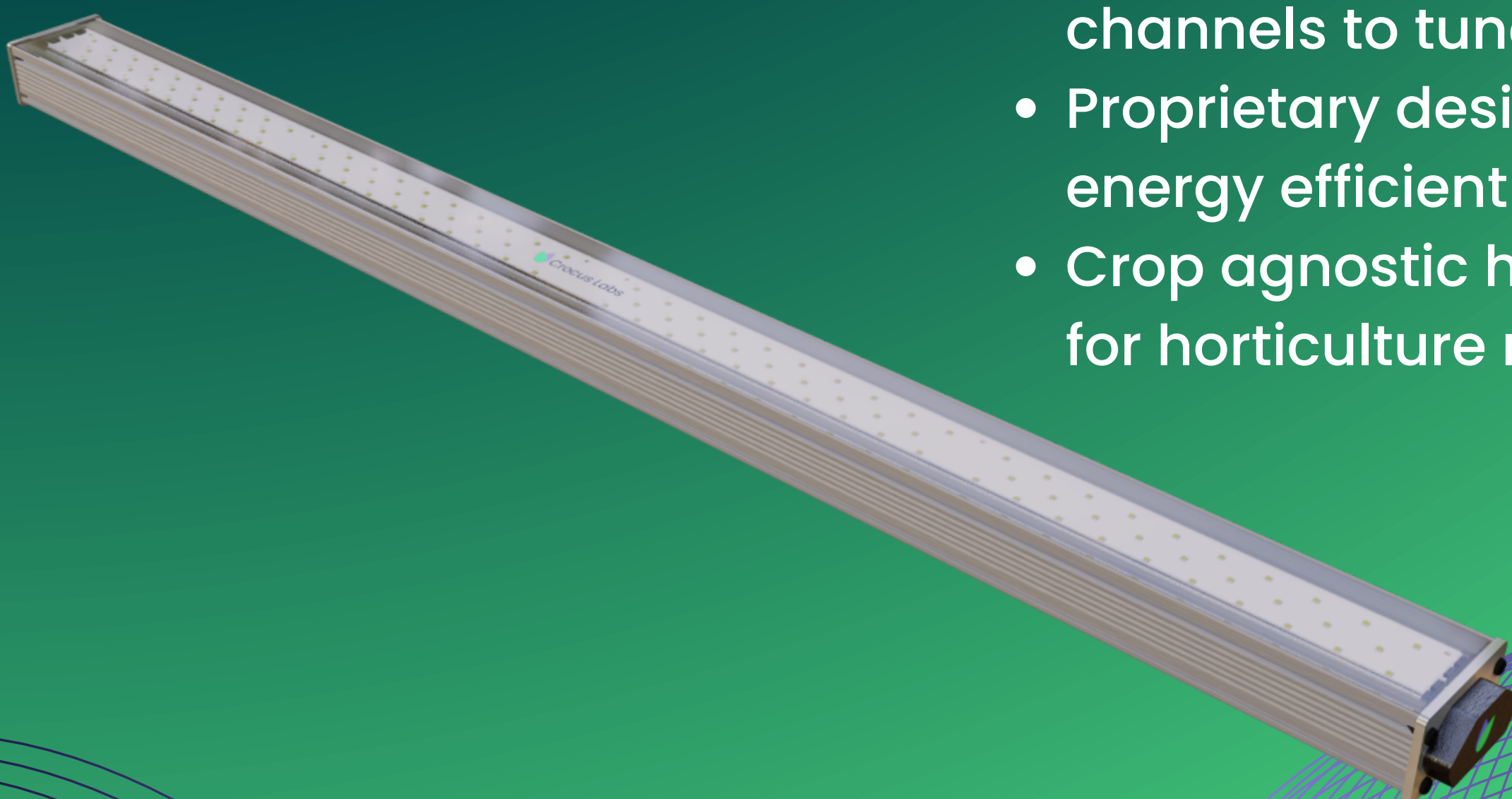
Product info

A flexible modular system designed to solve growers challenges: from quality improvement to yeild increase to OPEX optimisation.

- Create, save & apply customised light recipes for every crop need
- Set up automatic light sequence per crop growth stage
- Always stay in control of the process
- Get a full crop development report



- White, Blue, Red & Far-Red channels to tune the perfect light
- Proprietary design to ensure energy efficient growing
- Crop agnostic hardware designed for horticulture needs



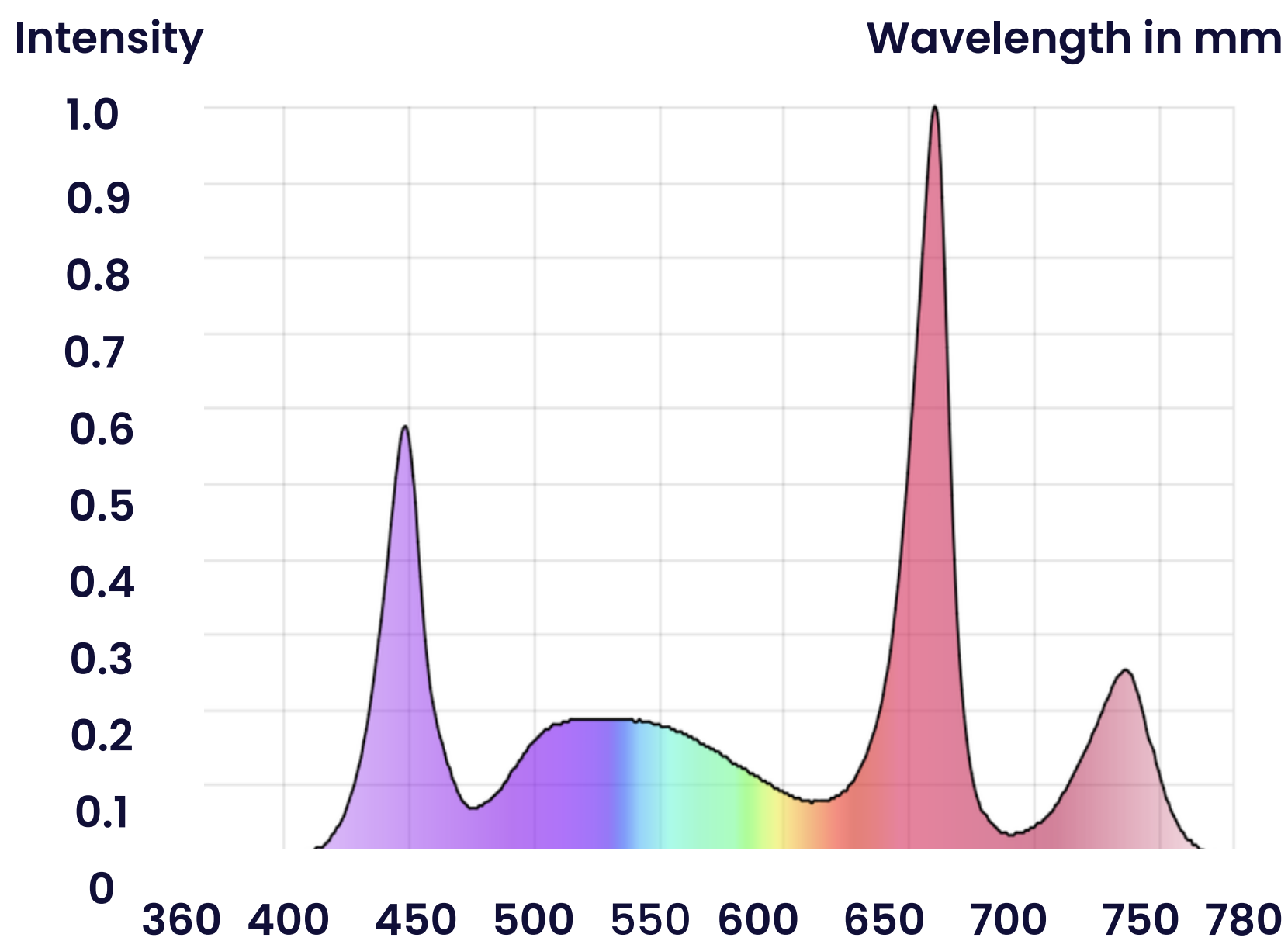
SIRIUS X.3

Spec sheet

Light Source	LED
Spectrum	Blue (455 nm), White, Red (660 nm), Far-Red (730nm)
Photon Flux (PF) in ($\mu\text{mol/s}$)	Maximum: 260 Blue 0 - 29 White 0 - 92 Red 0 - 94 Far-Red 0 - 45
Efficiency ($\mu\text{mol/J}$)	Up to 3.3 Average 2.63
Input voltage	Autosensing 100 -240V 50/60 Hz
Networking	WI-FI
Nominal power	100 W
Thermal management	Passive
Operating temperature	0 - 40°C
Regulatory approvals	IP65, CE, ROHS
Fixture dimensions (L x W x H)	1070 mm x 70 mm x 45 mm
Fixture weight	2.5 kg

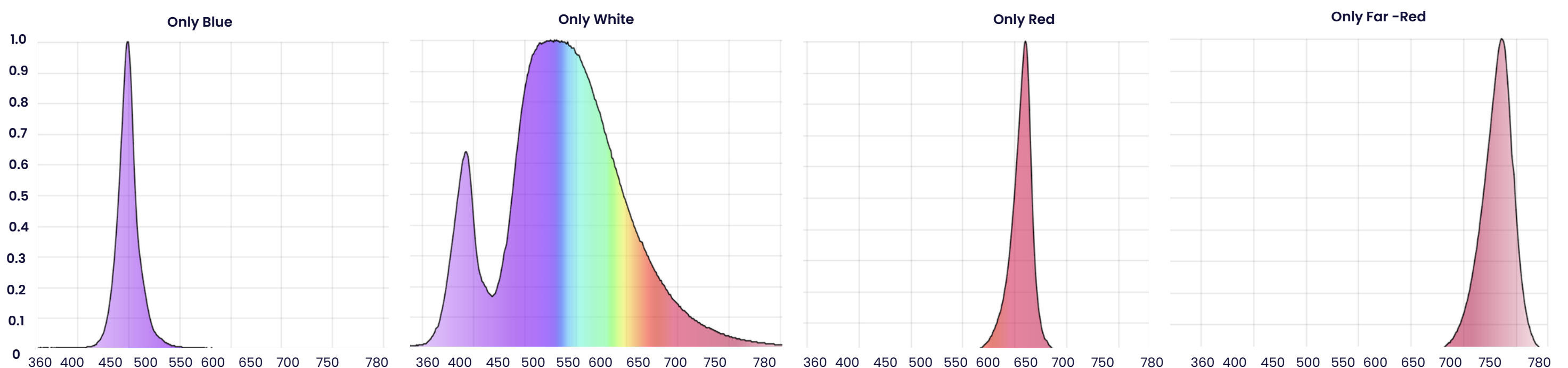
SIRIUS X.3

Spectrum distribution



The broad range light spectrum combined with full light tunability (both intensity & wave length adjustments) enables growers to choose the light treatment that is beneficial for individual crop needs and desired growth outcomes.

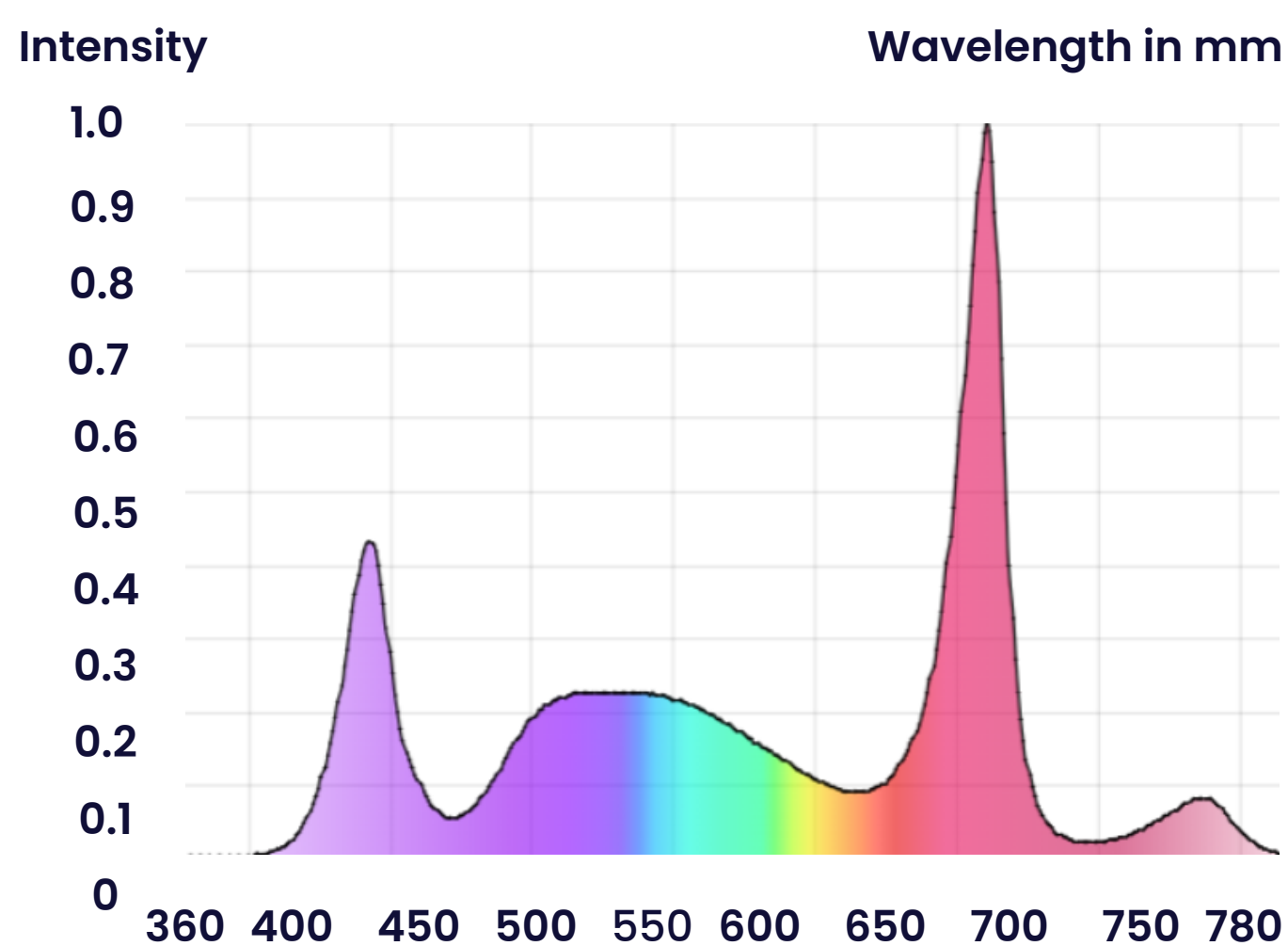
Find out more on SIRIUS X.3 application for difference crop types.



SIRIUS X.3

Light application

Greenhouse case: Strawberry harvest extension with improved quality



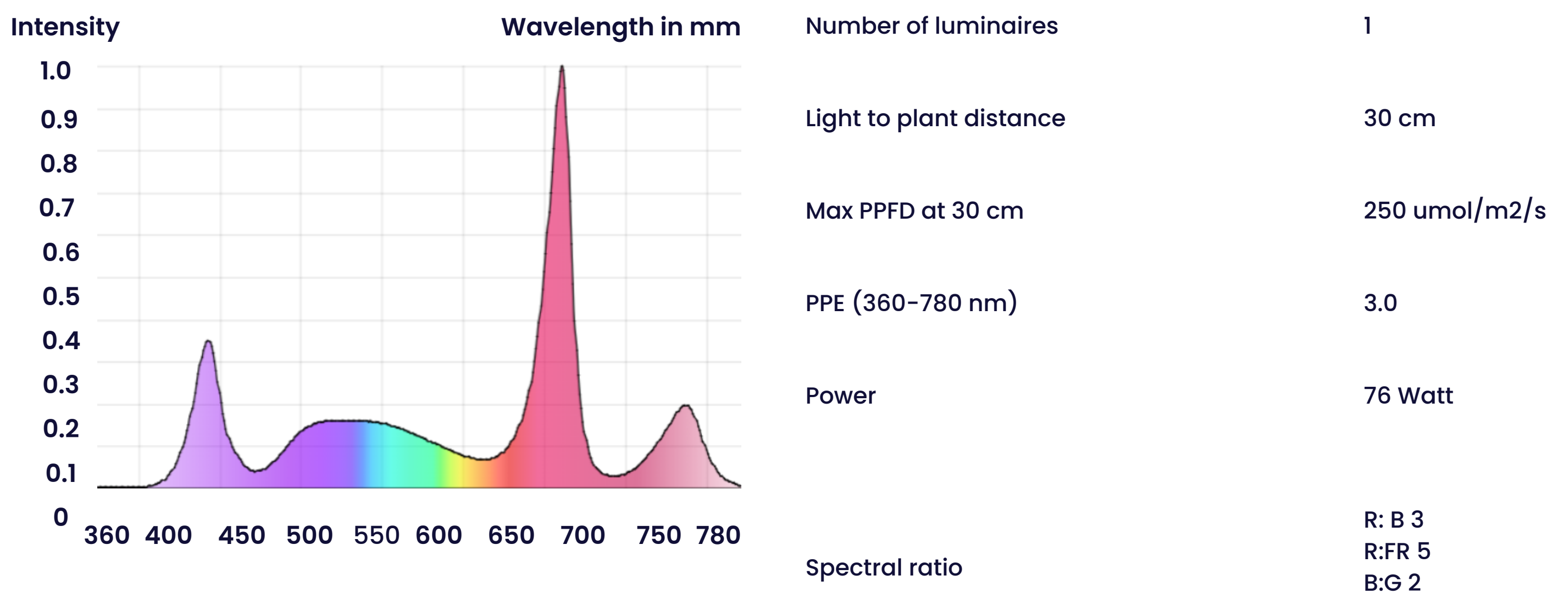
Number of luminaires	2
Light to plant distance	30 cm
Max PPFD at 30 cm	395 $\mu\text{mol}/\text{m}^2/\text{s}$
PPE (360–780nm)	2.8
Power per luminaires	76.5 Watt
Spectral ratio	R:B 7:3 R:FR 12 B:G 2



SIRIUS X.3

Light application

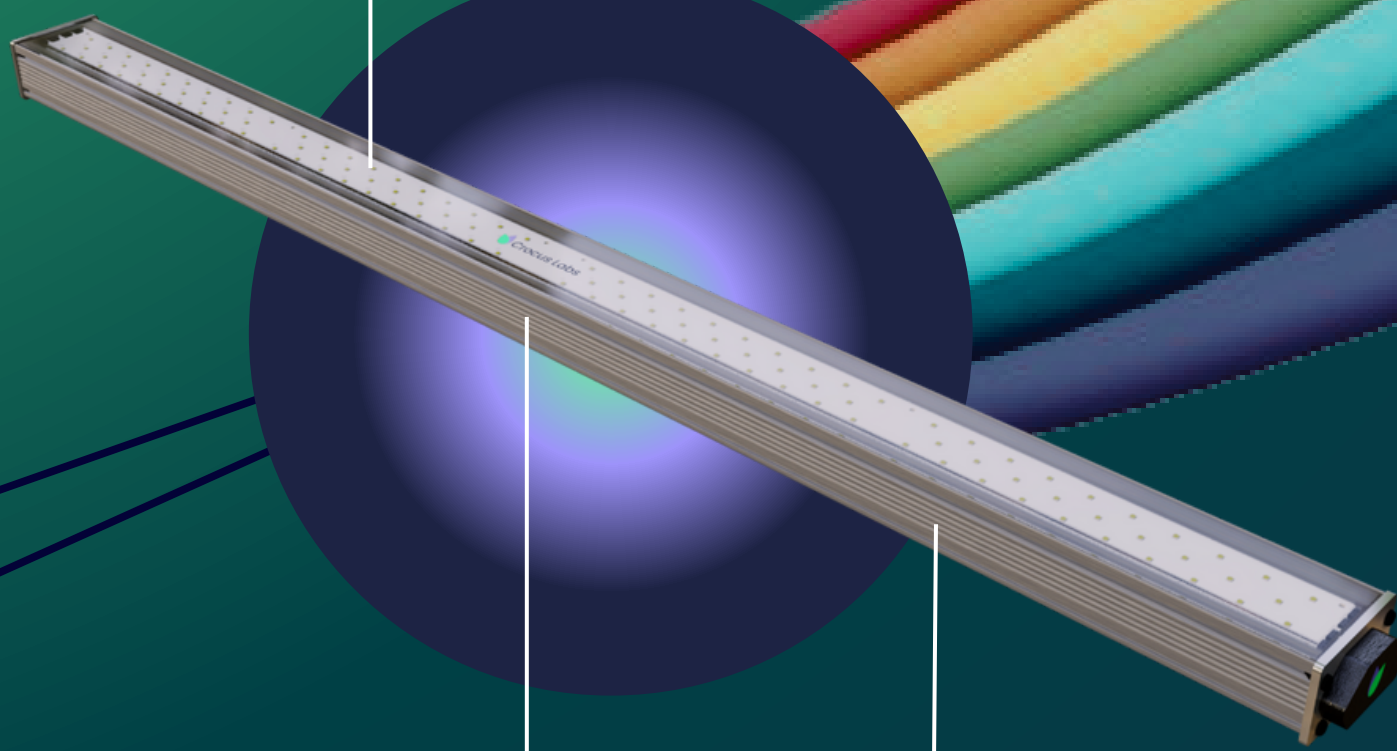
Vertical Farm case: Leafy greens production cost optimisation with tunable spectrum





German startup with the mission to empower the sustainable future of food by enabling profitable scaling for the growers.

Proprietary horticulture specific energy efficient LED



Tunable smart power conversion technology

Sensors enabling data analytics & digital twin farm

We bring not only the full spectrum of light, but a full spectrum of services



Tune a perfect spectrum ideal for the crop and your energy bill



Measure what is important in your growth environment with our sensor system



Push the borders of the field & explore beyond with a joint research



State of art software to bring growing to the next level