

2,900 $\mu\text{mol/s}$
PPF OUTPUT

2.9 $\mu\text{mol/J}$
PHOTON EFFICACY

1000 W
RATED POWER

3,360
LED DIODES

OVERVIEW

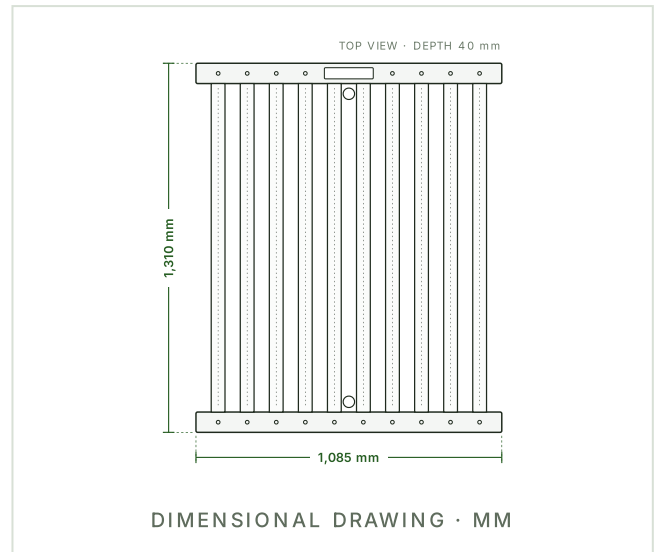
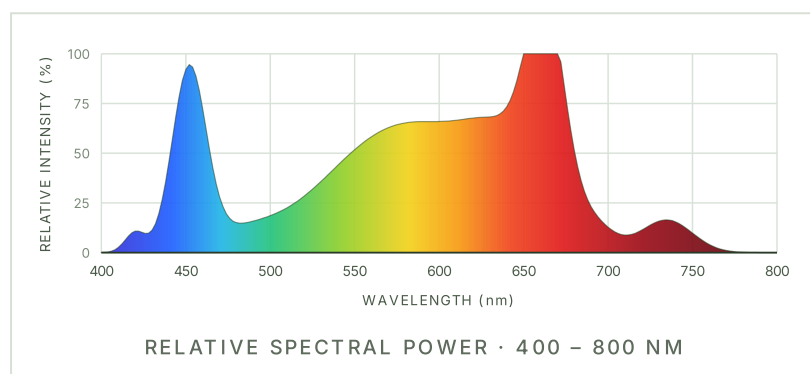
The Lucius Black Label 1000W is a ten-bar fixture for commercial and large-scale cultivation. 3,360 diodes produce 2,900 $\mu\text{mol/s}$ with a beam distribution designed for close-mounting over high-density canopies, and the fixture dims without efficacy loss to cover propagation and vegetative phases with the same unit.

- 10 passive-cooled LED bars
- Dimmable without loss of efficacy
- L90 rated life > 50,000 h
- Full-spectrum white + 660 nm red
- Internal Lucius driver
- 3-year warranty

OPTICAL

Photosynthetic photon flux (PPF)	2,900 $\mu\text{mol/s}$
Photon efficacy	2.9 $\mu\text{mol/J}$
Spectrum	Full spectrum
Diodes	3,360 · Samsung LM281B + OSRAM SSL 80 (660 nm red)
Beam angle	120°
Configuration	10 LED bars

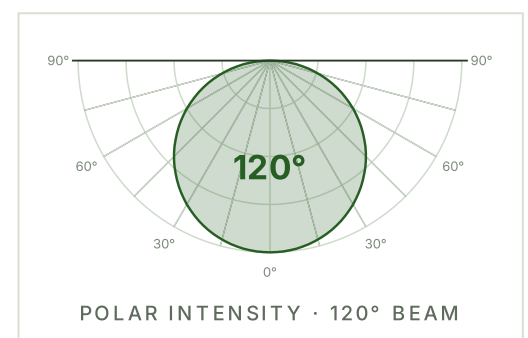
SPECTRAL DISTRIBUTION



ELECTRICAL

Rated power	1000 W
Input voltage	120 – 277 V AC
Input current	8.3 – 3.6 A max.
Frequency	50 / 60 Hz
Total harmonic distortion	< 10 %
Dimming	0 – 100 % dimmable

LIGHT DISTRIBUTION



MECHANICAL

Dimensions (L × W × H)	1,085 × 1,310 × 40 mm
Driver	Lucius internal driver
Cooling	Passive, fanless
Max. operating temperature	130 °C

GENERAL

Rated lifetime	L90 > 50,000 h
Warranty	3 years
Applications	Propagation · vegetative · flowering

COMPONENTS

 Samsung LM281B Mid-power full-spectrum white LED, high efficacy, low thermal load	 OSRAM SSL 80 · 660 nm Deep-red hyper-red emitter for flowering and photosynthetic efficiency	 Lucius internal driver Constant-current driver, 120 – 277 V AC, dimmable
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SERIES 2.9 RANGE

MODEL	LINE	POWER	PPF	EFFICACY	DIODES	BARS	BEAM	DIMENSIONS (MM)
Lucius 120W	Black Label	120 W	348 µmol/s	2.9 µmol/J	600	4	120°	550 × 480 × 32
Lucius 240W	Black Label	240 W	696 µmol/s	2.9 µmol/J	1,200	4	120°	550 × 480 × 32
Lucius 400W	Black Label	400 W	1,160 µmol/s	2.9 µmol/J	1,344	4	120°	790 × 780 × 32
Lucius 630W Master Control	Black Label	630 W	1,827 µmol/s	2.9 µmol/J	2,016	6	120°	1,091.9 × 1,063 × 51.6
Lucius 720W	Black Label	720 W	2,088 µmol/s	2.9 µmol/J	2,016	6	120°	1,091.9 × 1,063 × 51.6
Lucius 1000W	Black Label	1000 W	2,900 µmol/s	2.9 µmol/J	3,360	10	120°	1,085 × 1,310 × 40
Lucius 120W	Under Canopy	120 W	348 µmol/s	2.9 µmol/J	600	—	255°	1,060 × 65 × 40

OPERATING NOTES

Mount the fixture horizontally above the canopy and adjust height to the target PPFD for each growth stage; reduce output via the dimmer rather than raising the fixture whenever uniformity is a priority. Ensure adequate air exchange around the LED bars. Connect only to a supply within the rated voltage range using the supplied cable. The fixture contains no user-serviceable parts.

PPF and efficacy values are typical at rated power and 25 °C ambient after thermal stabilisation. Spectral and polar diagrams are representative. Specifications are subject to change without notice as part of continuous product improvement. Lucius® is a registered trademark. Distributed by Grupo EQT.