

**1,160**  $\mu\text{mol/s}$   
PPF OUTPUT

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

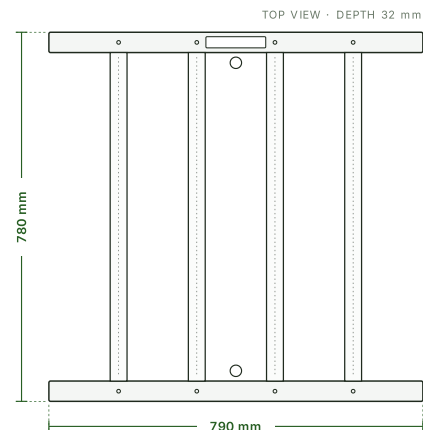
**400 W**  
RATED POWER

**1,344**  
LED DIODES

## OVERVIEW

The Lucius Black Label 400W uses four wide-spaced LED bars spread 1,344 diodes evenly across a 790 × 780 mm frame for uniform canopy coverage, with a dimmable internal driver that lets one fixture follow the crop from cutting to harvest.

- 4 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

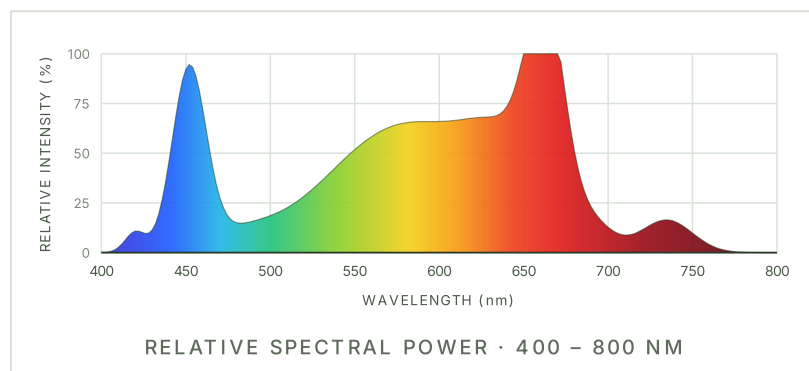


DIMENSIONAL DRAWING · MM

## OPTICAL

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| Photosynthetic photon flux (PPF) | 1,160 $\mu\text{mol/s}$                            |
| Photon efficacy                  | 2.9 $\mu\text{mol/J}$                              |
| Spectrum                         | Full spectrum                                      |
| Diodes                           | 1,344 · Samsung LM281B + OSRAM SSL 80 (660 nm red) |
| Beam angle                       | 120°                                               |
| Configuration                    | 4 LED bars                                         |

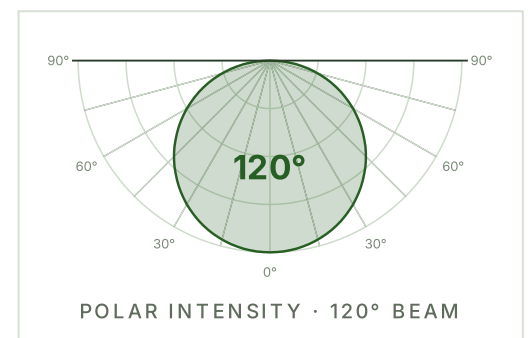
## SPECTRAL DISTRIBUTION



## ELECTRICAL

|                           |                    |
|---------------------------|--------------------|
| Rated power               | 400 W              |
| Input voltage             | 120 – 277 V AC     |
| Input current             | 3.3 – 1.4 A max.   |
| Frequency                 | 50 / 60 Hz         |
| Total harmonic distortion | < 10 %             |
| Dimming                   | 0 – 100 % dimmable |

## LIGHT DISTRIBUTION



## MECHANICAL

|                            |                        |
|----------------------------|------------------------|
| Dimensions (L × W × H)     | 790 × 780 × 32 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

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

## 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         |
| <b>Lucius 400W</b>         | <b>Black Label</b> | <b>400 W</b> | <b>1,160 µmol/s</b> | <b>2.9 µmol/J</b> | <b>1,344</b> | <b>4</b> | <b>120°</b> | <b>790 × 780 × 32</b>  |
| 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.