

## Horticultural Lighting Systems

Type(s)

Project

Date

Notes



### GENERAL INFORMATION

Fotono is a full spectrum LED luminaire that directly replaces HPS luminaires in horticultural environments. Fotono fully qualifies for energy rebate programs while delivering instant energy savings, reduced maintenance needs, and advanced capabilities like multi-spectral control.

Fotono luminaires feature advanced spectral LED technology in a lightweight, compact design, minimizing structural burden on greenhouses and shading on crops.

#### Product Features

- Ideally suited for supplemental lighting as a daylight analog in greenhouse applications
- Industry-leading performance
- Replaces a 1000 W DE HPS luminaire
- Patented tunable spectrum
- Powder coated aluminum housing

#### Applications

- Indoor - Sole Source
- Greenhouse - Supplemental

### ORDERING INFORMATION

MODEL	DESCRIPTION
CT141-R20	Fotono luminaire with driver for general growing

### SPECIFICATIONS

#### Electrical

- Input voltage: 120–277 VAC, 50/60 Hz
- Input current: 5 A @ 120 VAC
- Power: 590–625 W
- Efficacy: 2.2–3.5  $\mu\text{mol}/\text{J}$
- PPF: >1,250–2100  $\mu\text{mol}/\text{s}$
- Bare-end electrical supply cable provided (black, white, and earth ground conductors)

#### Optical

- Patented tunable white LED spectrum
- Custom spectrum available
- Photosynthetic Photon Efficacy (PPE) per spectrum is detailed on the following page
- Lifetime per TM21: L70: 80,000 hours, L90: 50,000 hours

#### Environmental

- Ambient temperature: 0°C–40°C (32°F–104°F)
- 0%–95% relative humidity, non-condensing
- UL-Certified for damp locations with a patented IP68 active cooling system

#### Mechanical

- Powder coated aluminum housing

#### Mounting

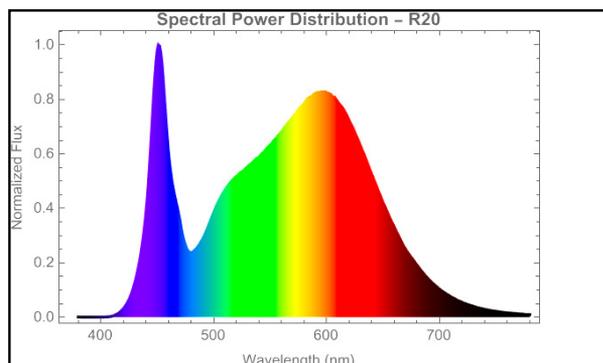
- V-hooks are shipped with the product for mounting purposes. The V-hooks are used to hold the fixture and provide a means to connect to suspension chain or cabling (by others).
- Optimal mounting height: > 915 mm (36 in) from the plant canopy

#### Compliance

- CSA C22.2 NO 250.0-08 - Luminaires
- UL 1598 - Luminaires
- UL 8800 - Outline for Horticultural Lighting Equipment
- UL 8750 - Standard for Light Emitting Diode (LED) Equipment for use in Lighting Products
- CSA C22.2 NO. 250.13-14 - Light Emitting Diode (LED) Equipment for Lighting Applications

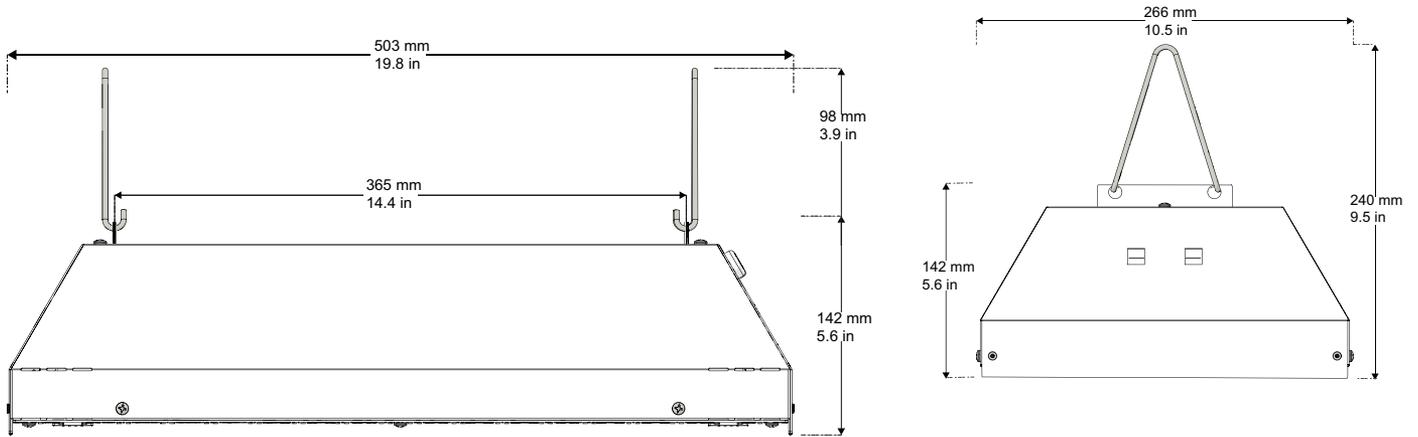
### SPECTRUM INFORMATION

R20



DC PPE: 2.55  $\mu\text{mol}/\text{j}$  / AC PPE 2.20  $\mu\text{mol}/\text{j}$

### PHYSICAL



- Overall dimensions: 503x266x142 mm (19.8x10.5x5.6 in)
  - Add 98 mm (3.9 in) to the luminaire height when installed with the provided mounting hooks
- Weight: 5.5 kg (12 lb)