# cultivaire™

## FULL-SPECTRUM WHITE LED HORTICULTURAL LIGHT

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LED HORTICULTURE LIGHT

## FEATURES

- Full spectrum white LED grow light supports plant growth
- Only 368W for PPF output 700+ µmol/s
- Three light recipes: Vegetative, Flowering and General Spectrum
- Wide or narrow light distribution options
- One-for-one cost-effective replacement of 600W more than 1000W HID; see comparison table below
- 0-10V dimming option allows light output to be adjusted for plant growth requirements
- Long-life LEDs with 60,000 hours of operation at 90% lumen maintenance (TM21 reported) and over 200,000 hours of life with only 30% light loss (TM21 calculated)

### FULL-SPECTRUM VEGETATIVE (FSV) DISTRIBUTION
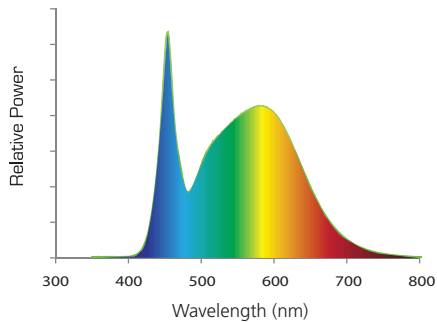
Hubbell's Full-Spectrum Vegetative mix (FSV) provides the strongest blue wavelength, promoting leaf growth and pigmentation beneficial to this stage of plant growth.

### FULL-SPECTRUM GENERAL (FSG) DISTRIBUTION
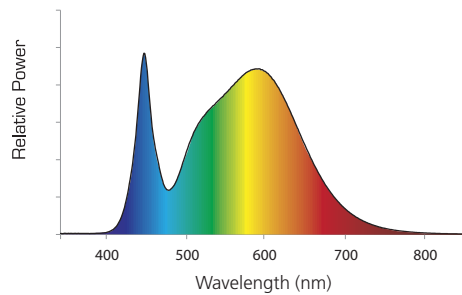
Hubbell's Full-Spectrum General mix (FSG) provides the most evenly distributed wavelength range, while still emphasizing red and blue contribution; this general source supports seed-to-flowering or seed-to-fruit growth stages.

### FULL-SPECTRUM FLOWERING (FSF) DISTRIBUTION
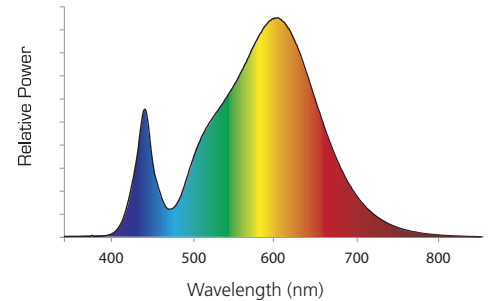
Hubbell's Full-Spectrum Flowering mix (FSF) is designed with added red and far red to promote plant reproduction and flowering.

### COMPARISON: CGS TO HPS

| Product | Fixture Watts | PPF[1] Output (µmol/s) | Distance to Plant Canopy | Avg. PPFD[2] (µmol/m²/s) | Max. PPFD (µmol/m²/s) | Min. PPFD (µmol/m²/s) | Avg./Min. | Max./Min. |
|---|---|---|---|---|---|---|---|---|
| Cultivaire™ Horticulture Light | 368 | 751 | 1.2' | 507 | 794 | 319 | 1.59 | 2.49 |
| 600W HPS | 720 | 716 | 1.7' | 510 | 857 | 322 | 1.58 | 2.66 |
| The best 1000W HPS on the market | 1224 | 1993 | 8.3' | 507 | 513 | 500 | 1.01 | 1.03 |

[1] PPF (Photosynthetic Photon Flux): Metric used to identify how much Photosynthetically Active Radiation is emitted from a source or fixture for plant growth

[2] PPFD (Photosynthetic Photon Flux Density): Measurement of Photosynthetically Active Radiation taken at a given point on a work surface for plant growth; in this case, taken at a 4'x4' surface

## HUBBELL®
### Lighting

HIL_0402_CGS_SS_16