

GE current
a Daintree company

LED HORTICULTURE LIGHTING SYSTEMS

Arize[®] Factor ML300



Scalable lighting system for multi-layer cultivation

Optimized

Three broad light spectrums optimize growth at every stage, from seed to harvest.

Scalable

Modular 4-, 5- and 6-bar arrays offer a variety of power levels, and multiple mounting options install quickly on any grow rack

Powerful

The unique optical design of the ML300 allows growers to meet PPFD needs with up to 3x fewer fixtures

Assembled in the USA

Trusted manufacturing, a standard five-year warranty and a >50,000 hour lifetime ensure consistent, predictable yields for years to come

Visit www.led.com for the latest in lighting innovations from the inventors of the LED

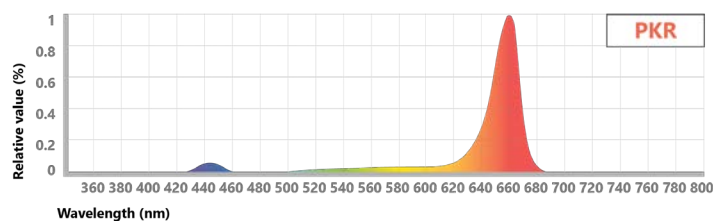


Arize® Factor ML300

Spectra

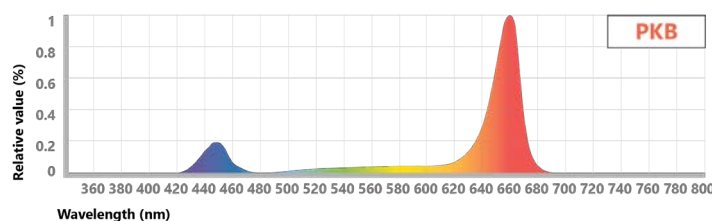
Type R

High red light to optimize plant growth and photosynthesis



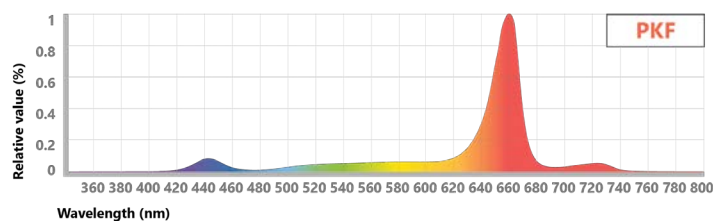
Type B

Light that supports biomass and secondary metabolite production



Type F

Encourages a stretching and expansion response for more robust growth



Spectrum Photon Distribution

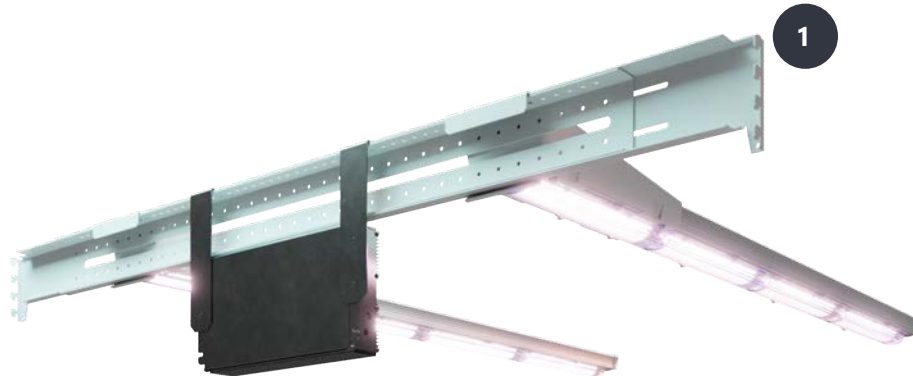
| Ratio | Blue PF | Green PF | Red PF | Far Red PF |
|-------|---------|----------|--------|------------|
| PKR | 7.0% | 16.0% | 76.0% | 1.0% |
| PKB | 15.0% | 14.0% | 70.0% | 1.0% |
| PKF | 7.0% | 16.0% | 72.0% | 5.0% |

Spectrum table

| Array | Spectra | Typical photon flux ¹ (μmol/s) | Power ² (W) | Efficacy ² (μmol/J) |
|-------|---------|---|------------------------|--------------------------------|
| 6-bar | PKR | 1723 | 622 | 2.8 |
| | PKB | 1728 | 622 | 2.8 |
| | PKF | 1701 | 635 | 2.7 |
| 5-bar | PKR | 1436 | 519 | 2.8 |
| | PKB | 1440 | 519 | 2.8 |
| | PKF | 1417 | 529 | 2.7 |
| 4-bar | PKR | 1148 | 415 | 2.8 |
| | PKB | 1152 | 415 | 2.8 |
| | PKF | 1134 | 423 | 2.7 |

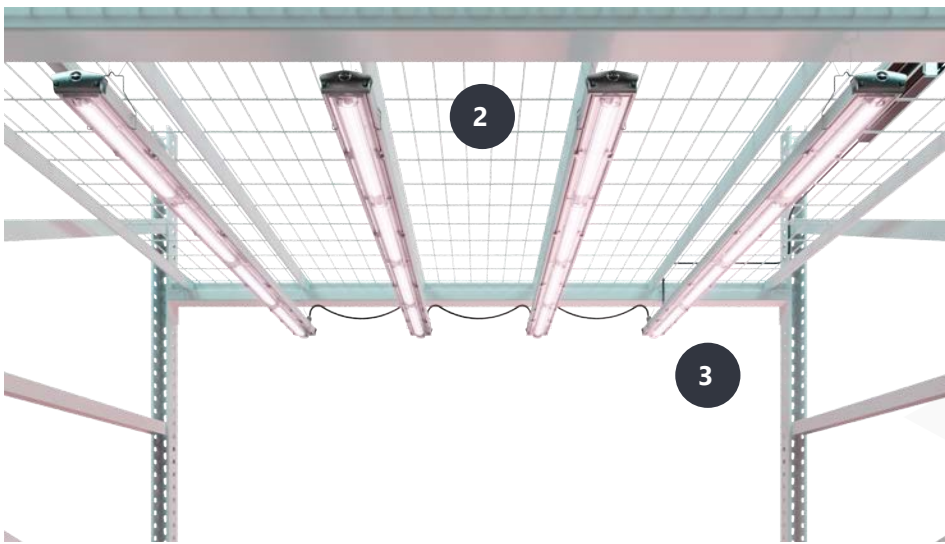
¹ Typical PPF +/-10% ² Tested at maximum input voltage of 480VAC

Why Factor?



1 Grow cart mount

Factor adapts to your grow, not the other way around. The system can be installed on the side of a grow cart using the transversal bar, allowing it to fit below ventilation systems.



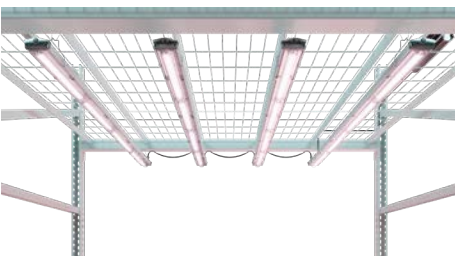
2 Suspended mount

One size fits all. Straightforward hooks allow the light bars to be hung from any rack, and the power supply can be remotely mounted, meaning the Factor can be used in any setup.

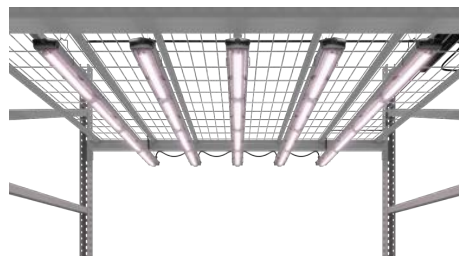
3 Reliability

We perform the most extensive, stringent testing in the industry. We test the LED, water and dust ingress protection, sub-system and complete system at our in-house and independent laboratories around the world. Validation of our designs, components, products and processes include high temperature, high humidity and accelerated life testing.

Arrays



4-bar



5-bar

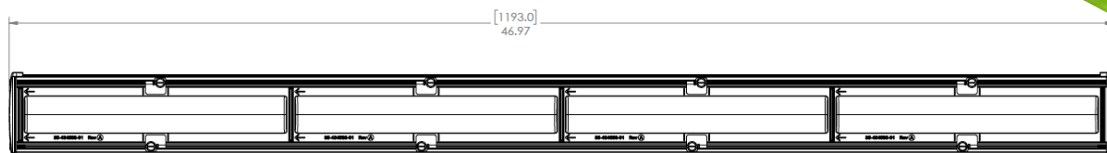
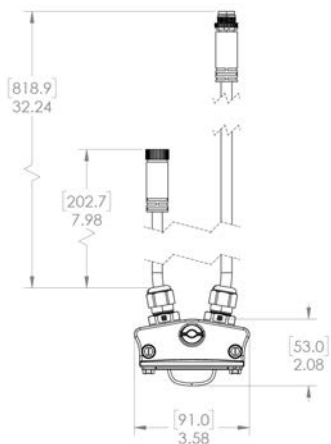


6-bar

The Factor ML300 grows with you. Simply add more light bars to your set up for increased coverage or PPFD



Mechanical outline



Dimensions and weight

| | Length | | Width | | Height | | Weight | |
|--------------|--------|----------|-------|----------|--------|---------|---------|--------|
| Fixture | 46.97" | 1193 mm | 3.58" | 91 mm | 2.08" | 53 mm | 5.7 lbs | 2.6 kg |
| Power supply | 10.81" | 274.5 mm | 9.96" | 252.9 mm | 3.65" | 92.8 mm | 7.7 lbs | 3.5 kg |

Specifications

| | | | |
|---|--------------------------|----------------------------|---------------------------------|
| Dimming range | 0-10V | Power factor | >0.9 |
| Max source current | 450uA | Max. remote mount distance | 6 ft (1.83 m) |
| Dim-to-off | Yes | Cooling | Passive |
| Dim off voltage | 0.35-0.65 V (typ. 0.5 V) | Light distribution | 140° |
| Dim on voltage | 0.55-0.85 V (typ. 0.7 V) | Operating environment | 0°C to 40°C (32°F to 104°F) |
| Dimming output range | 10%-100% | IP rating | IP65 |
| Absolute maximum dimming voltage | 20V | Lifetime | L90: >50,000 hours ¹ |
| For input voltage option 3, dimming control input is non-isolated from Class 1 driver output circuit. | | Warranty | Five-year system warranty |
| Use with sink dimmers only | | System certifications | cULus E492907 |

¹ Tested at 30°C per TM-21

Order code table

| GEHF | | | | W | | | | |
|------------|------------------------------------|---------------|----------|----------------------|---------------------|-----------------|-----|--|
| Product ID | Model | Mounting | Spectrum | Input voltage | Distribution | Options | Gen | |
| GEHF | M4 = 4x MO bars, 1x 600W driver | C = Grow cart | PKR | 2 = 120-277V (UL) | W = Wide batwing | X = None | 1 | |
| | M5 = 5x MO bars, 1x 600W driver | S = Suspended | PKB | | | 5 = NEMA 5-15P* | | |
| | M6 = 6x MO bars, 1x 600W driver | | PKF | 3 = 277-480V (UL) | | 6 = NEMA 6-15P* | | |
| | | | | | | 7 = NEMA L7-15P | | |

*Only available with input voltage option 2

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