verjure

CATALOG NUMBER

DATE

PROJECT

# Arize Element® L2000

## Enabling efficient growth at an industrial scale

**2 module version**

CERTIFIED

DLC HORT

66 IP RATED

## Features

- Enabling efficient growth at an industrial scale
- The go-to solution for light-loving crops, the Arize Element L2000 puts out a maximum PPF of 3400 µmol/s, an 83% increase compared to legacy 1000W HPS fixtures. With an optical design that surpasses legacy HPS light distribution, cultivators can produce top quality harvests in all seasons using fewer fixtures.
- Applications include indoor non-stacked as well as greenhouse applications, top light, as sole source or supplemental lighting

| PRODUCT SPECIFICATIONS | |
|---|---|
| Light source | LED |
| Wattage | See chart on page 3 |
| Max source current | 450uA |
| Input voltage | 120 - 480V |
| Spectrum | Various - see chart |
| Photosynthetic Photon Flux PPF (High Output) | 3400 µmol/s |
| Efficacy | 2.7 to 3.5 µmol/j |
| Dimming | 0-10V (dim to off)* |
| Dim Off Voltage | 0.35-0.65 V (typ. 0.5 V) |
| Dim On Voltage | 0.55-0.85 V (typ. 0.7 V) |
| Distribution | XWD Optic |
| Power Factor | >0.99** |
| Q90 | >50,000 hours*** |
| Operating temperature | 0°C to 35°C (32°F to 95°F) |
| Thermal Mgt | Passive |
| Listing | cULus, IP66 |
| Lens | Polycarbonate |
| Mounting | Standard Greenhouse/Custom Options Available |
| Limited Warranty | Five-year warranty |

* Average rated life based on industry standard measurements
* Refer to installation guide for dimming functionality. Use with sink dimmers only.
** Tested at minimum input voltage
*** Tested at 35°C per TM-21

**Warranty:** 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

**Note:** Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
The product images shown are for illustration purposes only and may not be an exact representation of the product.

Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.
Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.

Lead times will vary depending on options selected.
Consult with your sales representative.

**EXAMPLE:** VAE2 2 PKT MVOLT GZ10 XWD CNPQDWL MTBU1625 JP14

| Series | | Number of Modules | | Spectrum | | Voltage | | Driver | |
|---|---|---|---|---|---|---|---|---|---|
| **VAE2** | Arize Element L2000 | **2** | 2 modules | **PKT** | Pink Extremely Low Blue | **120** | 120V ‡ | **GZ10** | 0-10V dimming driver |
| | | **3** | 3 modules | **PKR** | Pink Low Blue | **208** | 208V ‡ | **L/DVR** | Less driver |
| | | | | **PKB** | Pink Medium Blue | **240** | 240V ‡ | | |
| | | | | **PKF** | Pink Far Red | **277** | 277V ‡ | | |
| | | | | **BRI** | White Medium Blue | **277X** | 277V utilizing Xvolt driver | | |
| | | | | | | **347X** | 347V utilizing Xvolt driver | | |
| | | | | | | **480X** | 480V utilizing Xvolt driver | | |
| | | | | | | **MVOLT** | 120-277V ‡ | | |
| | | | | | | **XVOLT** | 277-480V | | |

| Distribution | | Cordsets ‡ | |
|---|---|---|---|
| **XWD** | Extra wide | **(blank)** | no cordset |
| | | **CNPQDWL4FT** | Cord with quick disconnect, no plug, 3-conductor, black, wet location, 4FT |
| | | **CNPQDWL** | Cord with quick disconnect, no plug, 3-conductor, black, wet location, 6FT |
| | | **CNPQDWL10FT** | Cord with quick disconnect, no plug, 3-conductor, black, wet location, 10FT |
| | | **CNPQDWL12FT** | Cord with quick disconnect, no plug, 3-conductor, black, wet location, 12FT |
| | | **CNPQDWL15FT** | Cord with quick disconnect, no plug, 3-conductor, black, wet location, 15FT |
| | | **CNPQDWL20FT** | Cord with quick disconnect, no plug, 3-conductor, black, wet location, 20FT |
| | | **CPQDSB4FT** | Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 4FT |
| | | **CPQDSB** | Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 6FT |
| | | **CPQDSB10FT** | Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 10FT |
| | | **CPQDSB12FT** | Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 12FT |
| | | **CPQDSB15FT** | Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 15FT |
| | | **CPQDSB20FT** | Cord with quick disconnect, NEMA straight blade 15A plug, 3-conductor, white, damp location, 20FT |
| | | **CPQDTL4FT** | Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 4FT |
| | | **CPQDTL** | Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 6FT |
| | | **CPQDTL10FT** | Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 10FT |
| | | **CPQDTL12FT** | Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 12FT |
| | | **CPQDTL15FT** | Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 15FT |
| | | **CPQDTL20FT** | Cord with quick disconnect, NEMA twist-lock 15A plug, 3-conductor, white, damp location, 20FT |
| | | **CPQDTL20A4FT** | Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 4FT |
| | | **CPQDTL20A** | Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 6FT |
| | | **CPQDTL20A10FT** | Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 10FT |
| | | **CPQDTL20A12FT** | Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 12FT |
| | | **CPQDTL20A15FT** | Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 15FT |
| | | **CPQDTL20A20FT** | Cord with quick disconnect, NEMA twist-lock 20A plug, 3-conductor, white, damp location, 20FT |

| Remote Driver | | Mounting | | Packaging | |
|---|---|---|---|---|---|
| **(blank)** | Standard driver mounting | **(blank)** | None | **(blank)** | Unit |
| **RMD** | Remote driver | **MTBU1625** | Unistrut mountng bracket, 1.625IN/40mm | **JP14** | Job pack, qty 14 (available with 3 module only) |
| | | | | **JP21** | Job pack, qty 21 (available with 2 module only) |

‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart. Options are sorted alphanumerically


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Note: Specifications subject to change without notice.

| Accessories | |
|---|---|
| **CNPQD4FT** | AC Leader Cable, 4'/1219mm, UL |
| **VACNPQDLV3FT** | dimming Cable, 3 ft/ 914mm, UL/CE |
| **VACPQDTL4FT L7-15P** | AC Leader Cable, 4' , 16AWG, NEMA L7-15, UL |
| **VACPQDTL20A4FT L7-20P** | AC Leader Cable, 4' , 16AWG, NEMA L7-20, UL |
| **VACPQDTL20A4FT L8-20P** | AC Leader Cable, 4' , 16AWG, NEMA L8-20, UL |
| **VA2MTBUN1625** | STANDARD, wire Hanger, Inline 1-5/8 Unistrut Cat logic Option "N" |
| **VA2MTSN1625** | STANDARD S-hook - Driver, Wire Hanger, Inline 1-5/8 Unistrut Cat logic Option "N" |
| **VA2MTBUD1625** | STANDARD, Wire Hanger - inline 1-5/8 Unistruct Cat logic Option "D" |
| **VAAC18** | 18 in / 457 mm Universal Cable Mount |
| **VAAC60** | 60 in / 1524 mm Universal Cable Mount |

| ‡ Option Value Ordering Restrictions | |
|---|---|
| **Option value** | **Restriction** |
| 120,208,240,277, MVOLT | Available with 2 module units only. |
| Cordsets | CPQDTL20A otpions required with 347 and 480V. CPQDSB and CPQDTL options not available with MVOLT or HVOLT. |
| JP14 | available with 3 module only |
| JP21 | available with 2 module only |

## Available Models

| FAMILY | SPECTRUM | TYPICAL PHOTON FLUX[1] (MMOL/S) | POWER[1] (W) | EFFICACY[1] (MMOL/J) |
|---|---|---|---|---|
| L2000 (H3 - High output, 3 bar configuration) | PKT - Pink ELB | 3400 | 1040 | 3.3 |
| | PKR - Pink LB | 3100 | 1000 | 3.1 |
| | PKB - Pink B | 3130 | 1020 | 3.1 |
| | PKF - Pink FR | 3080 | 995 | 3.1 |
| | BRI - White R | 2620 | 988 | 2.7 |
| L2000 (H2 - High output, 2 bar configuration) | PKT - Pink ELB | 2000 | 630 | 3.2 |
| | PKR - Pink LB | 1900 | 610 | 3.1 |
| | PKB - Pink B | 1900 | 620 | 3.1 |
| | PKF - Pink FR | 1850 | 600 | 3.1 |
| | BRI - White R | 1800 | 660 | 2.7 |

[1] Tested at maximum input voltage. Typical performance +/-10%


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## Photometric Data

TYPE R
High red light to optimize plant growth and photosynthesis

| Typical Spectral Distribution | | | | |
|---|---|---|---|---|
| Spectrum | Blue PF | Green PF | Red PF | Far Red PF |
| PKT | 6% | 6% | 88% | 0% |
| PKR | 8% | 15% | 77% | 0% |
| PKB | 16% | 15% | 69% | 0% |
| PKF | 8% | 15% | 72% | 5% |
| BRI | 15% | 38% | 47% | 0% |

TYPE T
Energy efficient full spectrum supplemental lighting designed for a wide variety of greenhouse crops.

TYPE F
Full-Spectrum lighting with Far Red. Far red promotes extension growth. Although humans can barely see far-red radiation, it has a major effect on the size of leaves, the length of stems, and ultimately the height of plants.

TYPE BR
Increased blue ratio boosts secondary metabolite production to promote crop quality and phytochemical profile

TYPE B
Light that supports biomass and secondary metabolite production

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## Dimensions and Weight

| | 3-Bar | Power supply |
|---|---|---|
| Length | 24.3" / 617 mm | 17.7" / 450 mm |
| Width | 16.2" / 411 mm | 1.9" / 48 mm |
| Height | 6.4" / 163 mm | 4.2" / 107 mm |
| Weight | 18.7 lbs / 8,5 kg | 7.0 lbs / 3,2 kg |

| | 2-Bar | Power supply |
|---|---|---|
| Length | 24.3" / 617 mm | 13.12" / 333 mm |
| Width | 10.9" / 276 mm | 1.81" / 46 mm |
| Height | 5.7" / 145 mm | 5.94" / 151 mm |
| Weight | 13.4 lbs / 6,1 kg | 7.0 lbs / 3,2 kg |

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