

| | |
|----------------|------|
| CUSTOMER NAME | |
| PROJECT NAME | |
| DATE | TYPE |
| CATALOG NUMBER | |

Arize Element® L1000

HORT179EU

Enabling efficient growth at an industrial scale

The Arize Element is a family of super-efficient, robust, and reliable LED professional horticultural lighting fixtures for greenhouses and indoor farms. Available in a wide range of power and spectral options, the Element offers scalable solutions for maximum productivity and efficiency across a wide range of horticultural applications.

Optical System

| | |
|----------------------------|--|
| Typical Photon Flux | 1,750-2,200 $\mu\text{mol/s}$ |
| Light Distribution | XW Optic, W Optic |
| Spectrums | PKR, PKB, PKT, PKF, PPR, PPB, BRI, BRV |

Ambient Temperature

| TYPE | TEMPERATURE RATING |
|------------------------------|-----------------------------|
| Operating Temperature | 0°C to 40°C (32°F to 104°F) |

Electrical

| | |
|-----------------------------------|------------------------------|
| Dimming Range | 0-10V |
| Max Source Current | 450uA |
| Efficacy Range | 2.6 to 3.6 $\mu\text{mol/j}$ |
| Dim-to-Off³ | Yes |
| Dim Off Voltage | 0.35-0.65 V (typ. 0.5 V) |
| Dim On Voltage | 0.55-0.85 V (typ. 0.7 V) |
| Dimming Output Range | 10%-100% |
| Power Factor | >0.99 ⁴ |
| THD | <10% ⁵ |
| Max. Remote Mount Distance | 18 ft (5.49 m) |
| Cooling | Passive |
| IP Rating | IP66 |

Use with sink dimmers only

³ Refer to installation guide for dimming functionality details

⁴ Tested at minimum input voltage ⁵ Tested at full intensity

⁶ Tested at 40°C per TM-21

Rated Lifetime

L90: >50,000 hours⁶

Certifications & Warranty

Five-year system warranty
cULus E492907, CE, UKCA



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Ordering Information

GEHE

B

N

2

| MODEL | FAMILY | SPECTRUM | INPUT VOLTAGE | OPTIC | OPTIONS | GEN | POWER CABLE |
|-------|-------------|-------------------------|---|-------------------------|---------|-----|---|
| GEHE | H C F | See Spectrum Code Table | N No Power Supply 4 120-277V (UL) / 220-240V (CE) 5 277-480V (UL) / 380-415V (CE) | B XW Optic W W Optic | N None | 2 | 3 4'/122cm Leader Cable, No Plug, CE E No Cable (CE) |

| MOUNTING OPTIONS | | PACKAGING | |
|------------------|-----------------------------|-----------|-------------|
| N | None | [Blank] | Single Pack |
| 1 | 1.625"/40mm Unistrut | M1 | Bulk Pack |
| 2 | 1.625"/40mm Unistrut Offset | | |
| 3 | 2.75"/70mm Square | | |
| H | 18"/45mm Universal Cable | | |

DISCLAIMER

Horticultural lighting only. Not suitable for general lighting applications

Electrical products must not be thrown out with domestic waste. They must be taken to a communal collecting point for environmentally friendly disposal in accordance with local regulations. Contact your local authorities or stockist for advice on recycling. The packaging material is recyclable. Dispose of the packaging in an environmentally friendly manner and make it available for the recyclable material collection service.



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| SPECTRUM TABLE | | | | |
|--|-----------------|-------------------------------|------------------------|--------------------------------|
| FAMILY | SPECTRUM | TYPICAL PHOTON FLUX* (μMOL/S) | POWER ¹ (W) | EFFICACY ¹ (μMOL/J) |
| L1000 (H order code) | PPR - Purple LB | 1,900 | 584 | 3.3 |
| | PPB - Purple MB | 1,900 | 622 | 3.1 |
| | PKT - Pink ELB | 1,900 | 610 | 3.1 |
| | PKR - Pink LB | 1,900 | 627 | 3.0 |
| | PKB - Pink MB | 1,900 | 642 | 3.0 |
| | PKF - Pink FR | 1,900 | 644 | 3.0 |
| | BRI - White MB | 1,750 | 658 | 2.7 |
| | BRV - White HB | 1,750 | 683 | 2.6 |
| L1000 High Efficacy (V order code) | PPR - Purple LB | 1900 | 534 | 3.6 |
| | PPB - Purple MB | 1900 | 566 | 3.4 |
| | PKT - Pink ELB | 1900 | 542 | 3.5 |
| | PKR - Pink LB | 1850 | 572 | 3.2 |
| | PKB - Pink MB | 1850 | 593 | 3.1 |
| | PKF - Pink FR | 1800 | 571 | 3.2 |
| L1000 High Output (C order code) | PKT - Pink ELB | 2200 | 690 | 3.2 |
| | PKR - Pink LB | 2050 | 690 | 3.0 |

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

| ACCESSORIES | | |
|---------------------|----------|---|
| ORDER CODE | SKU | DESCRIPTION |
| GECA60D16-OL04B | 93149021 | AC Leader Cable, 4'/1219mm, CE |
| GECA60FNA-NL00B | 93153189 | AC Field Installable Wieland Connector, UL/CE |
| GECA30G14-EN03B | 93149513 | DC Interconnection Cable, 3'/914mm, UL/CE |
| GECA30G14-EN06B | 93149514 | DC Interconnection Cable, 6'/1828mm, UL/CE |
| GEPSC240-680D-BDGGL | 93149018 | Power Supply, 120-277V UL/220-240V CE |
| GEPSC240-680D-BGJGL | 93149019 | Power Supply, 277-480V UL/380-415V CE |
| GECA30H20-OO03B | 93149020 | Dimming Cable, 3 ft / 914 mm, UL/CE |
| GEMB-WAS1 | 93153268 | 1.625 in / 40 mm Unistrut Mount |
| GEMB-WAA1 | 93154046 | 1.625 in / 40 mm Unistrut Offset Mount |
| GEMB-WAS2 | 93153269 | 2.75 in / 70 mm Square Mount |
| GEMB-CBH1 | 93153270 | 18 in / 457 mm Universal Cable Mount |
| GEMB-CBH5 | 93154044 | 24 in / 609 mm Universal Cable Mount |
| GEMB-CBH4 | 93154043 | 36 in / 914 mm Universal Cable Mount |
| GEMB-CBH2 | 93153281 | 60 in / 1524 mm Universal Cable Mount |
| GEMB-PAU1 | 93154745 | 90° Perpendicular Mounting Kit |

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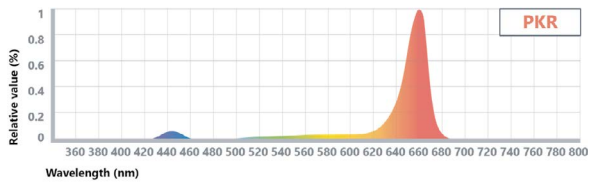
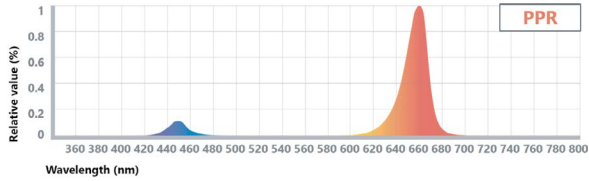
TYPE _____

CATALOG NUMBER _____

Photometric Data

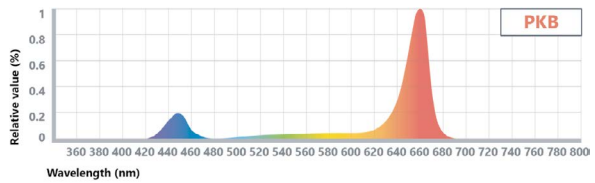
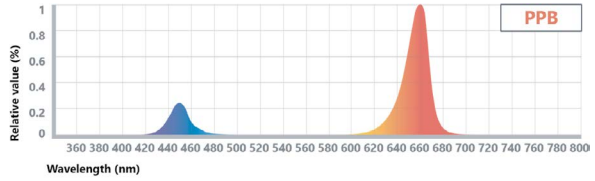
Type R

High red light to optimize plant growth and photosynthesis



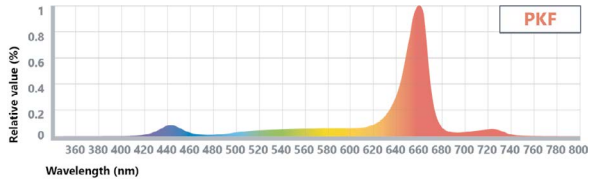
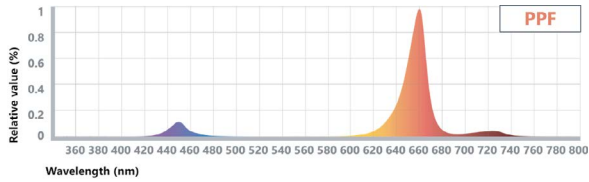
Type B

Light that supports biomass and secondary metabolite production



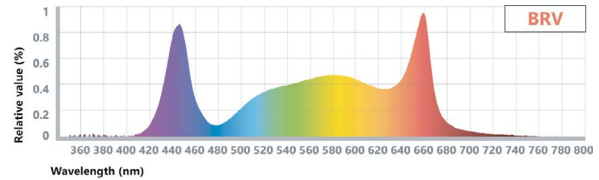
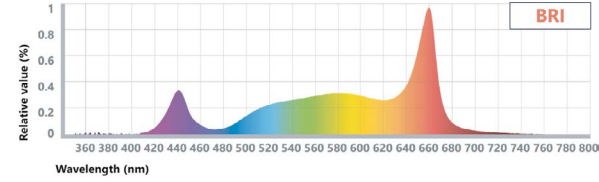
Type F

Encourages a stretching and expansion response for more robust growth



Type BR

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

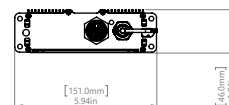
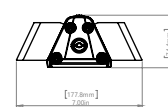
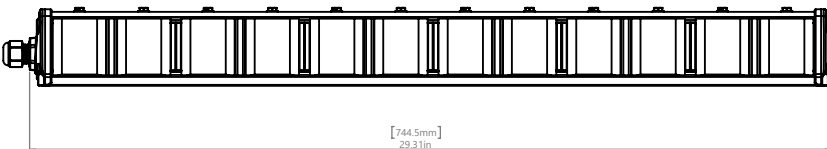
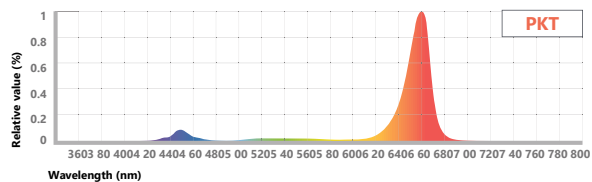


Product Dimensions

| DIMENSIONS AND WEIGHT | | | | |
|-----------------------|------------------|-----------------|-----------------|-------------------|
| | LENGTH | WIDTH | HEIGHT | WEIGHT |
| L1000 Fixture | 29.31" 745 mm | 7.00" 178 mm | 2.93" 75 mm | 9.0 lbs 4.1 kg |
| Power Supply | 13.12" 333 mm | 1.81" 46 mm | 5.94" 151 mm | 7.0 lbs 3.2 kg |

Type T

Increased blue and green ratios boost secondary metabolite production to promote crop quality and phytochemical profile



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Why Element?

1. Purpose-Built

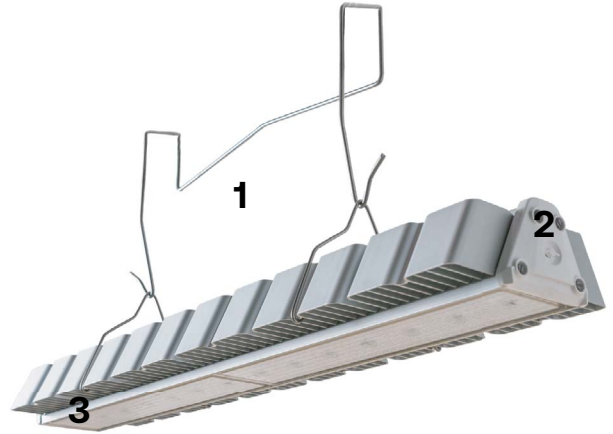
A heat sink that doesn't accumulate debris and LEDs protected by a lens are just two of the ways we designed reliability into the L1000. We've also designed all-new mounting brackets, further simplifying installation

2. Maximum Capability

We've simplified our language: broad white, broad pink and dual-band purple, all with high- and low-blue variants maximize year-round production for both sole-source and supplemental applications

3. Less Input. More Output

LED is more accessible than ever: Our XW optic reduces the number of fixtures required (more on that below), while efficacy levels surpassing 3.6 µmol/J enable direct replacement of 1000W HPS fixtures, reducing energy costs by over 40%. Did we mention no relamping?



Enabling efficient growth at an industrial scale

Sustainable

Efficacy levels surpassing 3.6 µmol/J make the Element one of the most efficient grow lights in its class, lowering operating expenses

Precise

Our XW Optic efficiently spreads light, reducing the number of fixtures by an average of 10 to 15% without sacrificing uniformity or crop quality

XW Optic

Compared to the previous generation's Lambertian distribution, our new XW Optic precisely controls light dispersion, resulting in wider coverage in low headspace applications. It further reduces the number of fixtures by 10 to 15%, without sacrificing uniformity or crop quality, lowering capital investment.

Lambertian Distribution



XW Optic



Complete

Four application-specific models and eight spectrums ranging from dual-band purple to broad white ensure there is an Element for every farm

Assembled in the USA

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



SPECTRAL DISTRIBUTION

| SPEC-TRUM | BLUE PF | GREEN PF | RED PF | FAR RED PF |
|-----------|---------|----------|--------|------------|
| PPR | 10.0% | 0.0% | 90.0% | 0.0% |
| PPB | 20.0% | 0.0% | 80.0% | 0.0% |
| PKR | 8.0% | 15.0% | 77.0% | 0.0% |
| PKB | 16.0% | 15.0% | 69.0% | 0.0% |
| PKF | 8.0% | 15.0% | 72.0% | 5.0% |
| PKT | 6.0% | 6.0% | 88.0% | 0.0% |
| BRI | 15.0% | 38.0% | 47.0% | 0.0% |
| BRV | 25.0% | 38.0% | 37.0% | 0.0% |