Arize

Arize Element® L1000
HORT179

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 µmol/s
Light Distribution:	XW Optic
Efficacy Range:	2.6 to 3.6 µmol/s
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)

Rated Lifetime

L90: >50,000 hours[6]

Electrical

Dimming Range:	0-10V
Max Source Current:	450uA
Dim-to-Off[3]:	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

Certifications & Warranty

- Five-year system warranty
- cULus E492907, CE, UKCA

Current

Arize
Element®
L1000-Gen2

ORDERING INFORMATION

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___	FAMILY	SPECTRUM	INPUT VOLTAGE	OPTIC	OPTIONS	GEN	POWER CABLE	MOUNTING OPTIONS	PACKAGING
GEHE	H V C	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** Wide Optic	**N** None	2	**1** 4'/122cm Leader Cable, No Plug, UL **3** 4'/122cm Leader Cable, No Plug, CE **5** Leader Cable, NEMA 5-15P Plug[1] **7** Leader Cable, NEMA L7-15P Plug **8** Leader Cable, NEMA L8-20P Plug[2] **9** Leader Cable, NEMA L7-20P Plug **N** No Cable (UL) **E Cable (CE)** No Cable (CE)	**N** None **1** 1.625"/40mm Unistrut **2** 1.625"/40mm Unistrut Offset **3** 2.75"/70mm Square **H** 18"/45mm Universal Cable	**[Blank]** Single Pack **M1** Bulk Pack

SPECTRUM TABLE

FAMILY	SPECTRUM	TYPICAL PHOTON FLUX[1] (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	1,900	534	3.6
	PPB – Purple MB	1,900	566	3.4
	PKT – Pink ELB	1,900	542	3.5
	PKR – Pink LB	1,850	572	3.2
	PKB – Pink MB	1,850	593	3.1
	PKF – Pink FR	1,800	571	3.2
L1000 High Output (C order code)	PKT – Pink ELB	2,200	690	3.2
	PKR – Pink LB	2,050	690	3.0

[1] Only available with input voltage N or 4

[2] Only available with input voltage N or 5

ACCESSORIES

ORDER CODE	SKU	DESCRIPTION
GECA60C16-OL04B	93153185	AC Leader Cable, 4'/1219mm, UL
GECA60D16-OL04B	93149021	AC Leader Cable, 4'/1219mm, CE
GECA60C16-5L04B	93153186	AC Leader Cable, 4', NEMA 5-15, UL
GECA60C16-7L04B	93153187	AC Leader Cable, 4', 16AWG, NEMA L7-15, UL
GECA60C16-8L04B	93153188	AC Leader Cable, 4', 16AWG, NEMA L8-20, UL
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

CUSTOMER NAME

Project Name _____

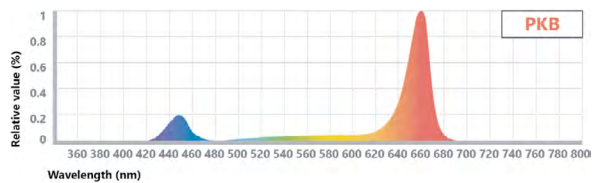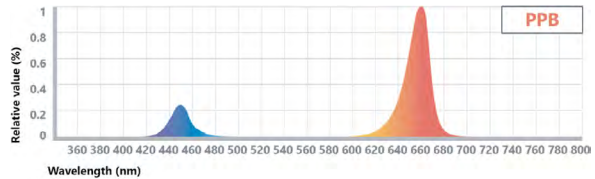Date _____   Type _____

Catalog Number _____

Photometric Data

Type R

High red light to optimize plant growth and photosynthesis

PPR

PKR

Type F

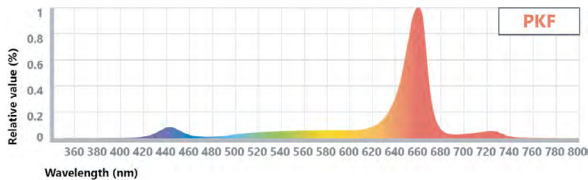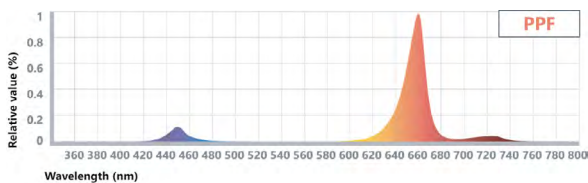Encourages a stretching and expansion response for more robust growth

PPF

PKF

Type B

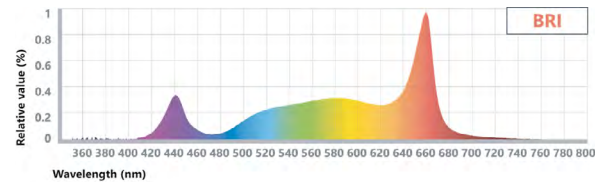Light that supports biomass and secondary metabolite production

PPB

PKB
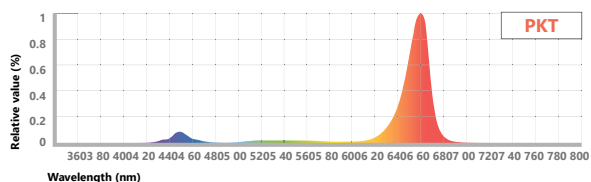
Type BR

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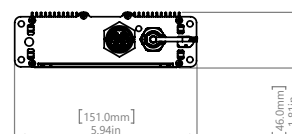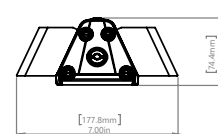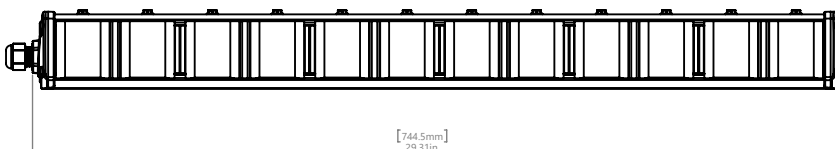

BRI

BRV
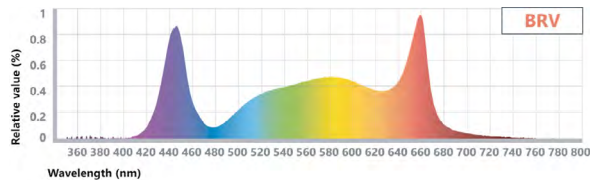
Type T

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

PKT

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

[74.4mm] 2.93in
[177.8mm] 7.00in

[744.5mm] 29.31in

[151.0mm] 5.94in

[46.0mm] 1.81in

Current

gecurrent.com/brands/arize

Arize

Element®
L1000-Gen2

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?
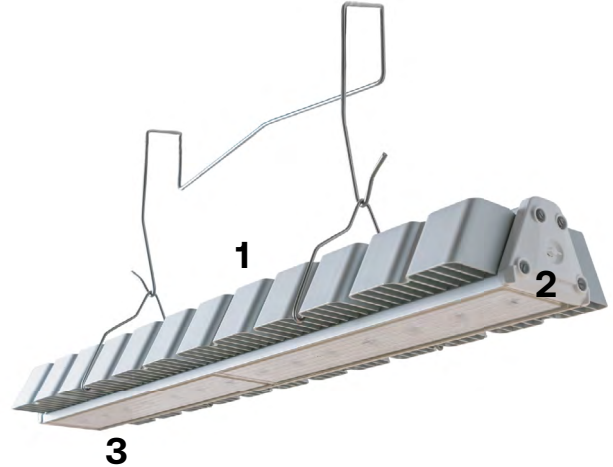
Enabling efficient growth at an industrial scale

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

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

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

SPECTRAL DISTRIBUTION				
SPECTRUM	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%

Current®