

CUSTOMER NAME	
PROJECT NAME	
DATE	TYPE
CATALOG NUMBER	

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 $\mu\text{mol/s}$
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-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

Rated Lifetime

L90: >50,000 hours⁶

Certifications & Warranty

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



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Ordering Information

GEHE

N

2

	FAMILY	SPECTRUM	INPUT VOLTAGE		OPTIC	OPTIONS		GEN	
GEHE	H V C	See Spectrum Code Table	N	No Power Supply	B	XW Optic	N	None	2
			4	120-277V (UL) / 220-240V (CE)	W	Wide Optic			
			5	277-480V (UL) / 380-415V (CE)					

POWER CABLE		MOUNTING OPTIONS		PACKAGING	
1	4'/122cm Leader Cable, No Plug, UL	N	None	[Blank]	Single Pack
3	4'/122cm Leader Cable, No Plug, CE	1	1.625"/40mm Unistrut	M1	Bulk Pack
5	Leader Cable, NEMA 5-15P Plug ¹	2	1.625"/40mm Unistrut Offset		
7	Leader Cable, NEMA L7-15P Plug	3	2.75"/70mm Square		
8	Leader Cable, NEMA L8-20P Plug ²	H	18"/45mm Universal Cable		
9	Leader Cable, NEMA L7-20P Plug				
N	No Cable (UL)				

¹ Only available with input voltage N or 4

² Only available with input voltage N or 5

Not all product variations listed on this page are DLC qualified.
Visit cpl.designlights.org/horticulture to confirm qualification.

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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

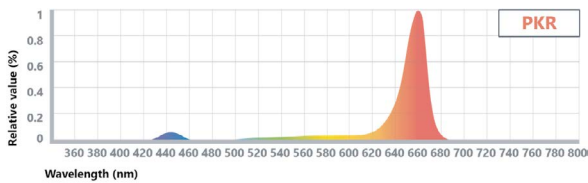
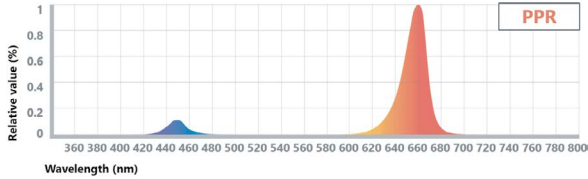
¹ Tested at maximum input voltage. Typical performance +/-10%

ACCESSORIES		
ORDER CODE	SKU	DESCRIPTION
GECA60C16-OL04B	93153185	AC Leader Cable, 4'/1219mm, UL
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-BDGGGL	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

Photometric Data

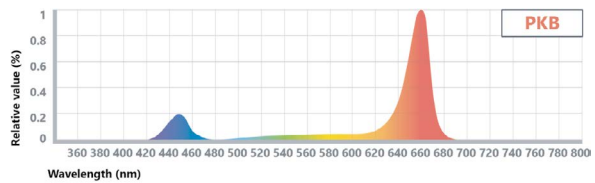
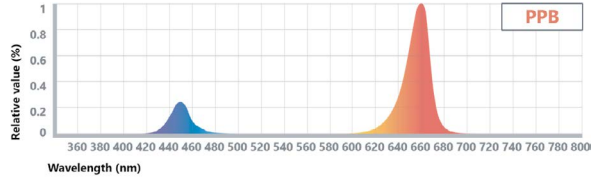
Type R

High red light to optimize plant growth and photosynthesis



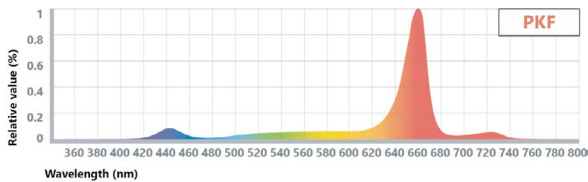
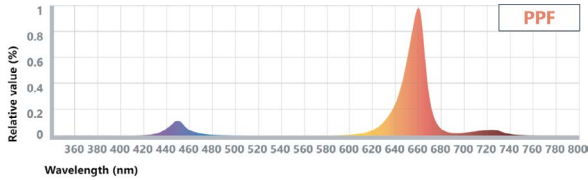
Type B

Light that supports biomass and secondary metabolite production



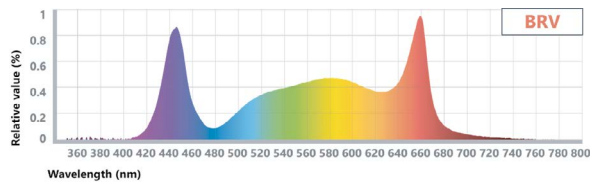
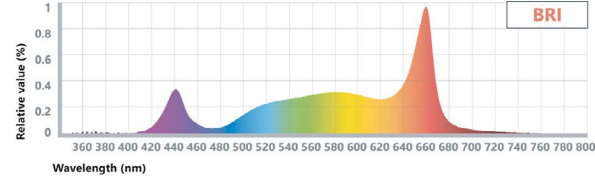
Type F

Encourages a stretching and expansion response for more robust growth



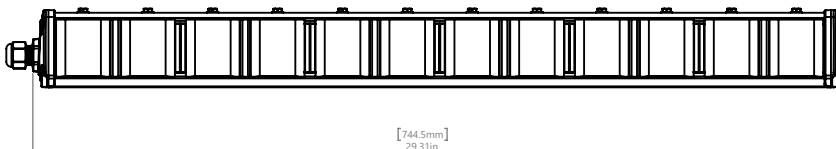
Type BR

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



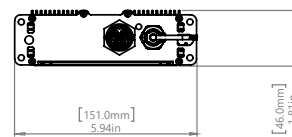
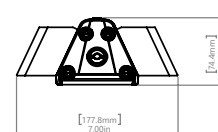
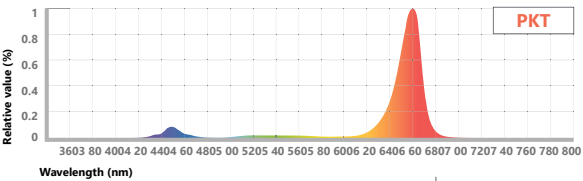
Product Dimensions

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

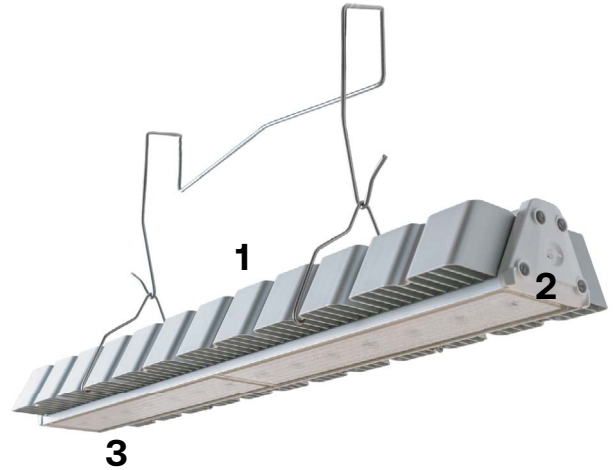
A heat sink that doesn't accumulate debris and LEDs protected by a lens are just two of the ways we designed reliability into the L1000. We've also designed all-new mounting brackets, further simplifying installation

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 $\mu\text{mol/J}$ 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 $\mu\text{mol/J}$ 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				
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%