

LED HORTICULTURE LIGHTING SYSTEMS



Arize Element®

Enabling efficient growth at an industrial scale

Efficient

Flexible

Efficacy levels surpassing 3.1 µmol/J make the Element one of the most efficient grow lights in its class Universal bracket and cable options mean the Element can be installed on any existing structure in seconds

Powerful

Produces the same light output as a 1000W HPS fixture while offering 40% energy savings, with multiple spectral offerings

Reliable

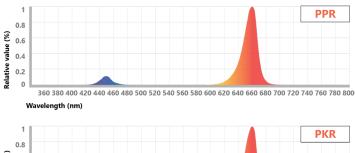
The most extensive reliability testing in the industry and a fiveyear warranty ensure consistent, predictable yields for years to come

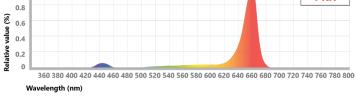
Arize Element®

Spectra

Type R

High red light to optimize plant growth and photosynthesis





Type F

Encourages a stretching and expansion response for more robust growth

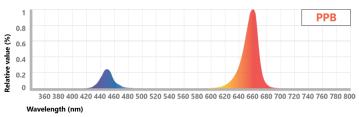


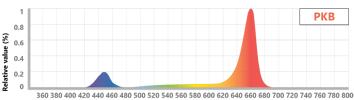
360 380 400 420 440 460 480 500 520 540 560 580 600 620 640 660 680 700 720 740 760 780 800 Wavelength (nm)

Optical table

Type B

Light that supports biomass and secondary metabolite production





Wavelength (nm)

Spectrum Photon Distribution				
Ratio	Blue PF	Green PF	Red PF	Far Red PF
PPR	9.5%	0.0%	90.5%	0.0%
PPB	18.2%	0.0%	81.8%	0.0%
PKR	8.0%	15.0%	77.0%	0.0%
РКВ	15.5%	15.0%	69.5%	0.0%
PKF	7.6%	15.0%	72.4%	5.0%

Optical code	Spectrum	Typical photon flux ¹ (μmol/s)	Power ¹ (W)	Efficacy ¹ (μmol/J)	Model
EPPR4	PPR	623	178	3.5	L400
EPPB4	PPB	612	180	3.4	L400
MPPR4	PPR	1038	310	3.3	L600
MPPB4	PPB	1013	314	3.2	L600
MPKR4	PKR	1006	330	3.0	L600
MPKB4	РКВ	964	330	2.9	L600
MPKF4	PKF	987	330	3.0	L600
HPPR4	PPR	1827	599	3.1	L1000
HPPB4	PPB	1761	601	2.9	L1000
HPKR4	PKR	1669	590	2.8	L1000
НРКВ4	РКВ	1631	597	2.7	L1000
HPKF4	PKF	1531	594	2.6	L1000
¹ Typical performance	+/-10%				

Typical performance +/-10%

Installation options



Standard mount

The out-of-the-box option, with 8" support cables and 15%" square brackets preinstalled on the power supply

Suspension kits

2', 5' & 10' support cables reduce the distance from the fixture to the crop, for more intense, focused lighting



Combination mount

Pre-drilled holes in the power supply brackets allow the Element to be suspended from the power supply



GECUIT

a Daintree company

90° bracket

This perpendicular bracket allows the Element to be installed in parallel with crop rows



Accessories

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



Optimized spectra

Multiple broad, high- and low-blue spectrum offerings maximize yearround production for both sole source and supplemental applications

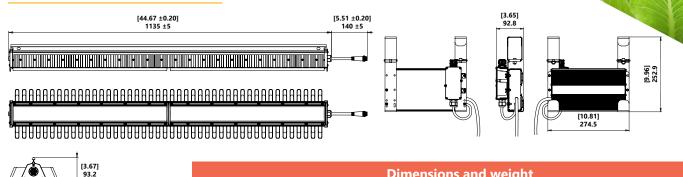


Quality you can trust

We have the highest quality standards in the industry because we don't believe in leaving reliability testing up to our customers

SKU	Order code	Description	Components
93121626	GEHAK-NN-EB-N0	L1000 2' suspension kit	2 ft support cable + 3 ft DC cable
93121628	GEHAK-NN-AC-N0	L1000 5' suspension kit	5 ft support cable + 6 ft DC cable
93121630	GEHAK-NN-BD-N0	L1000 10' suspension kit	10 ft support cable + 12 ft DC cable
93121632	GEHAK-DN-DD-N0	Power supply 2 ³ ⁄4" square bracket kit	2 ³ /4" square bracket extension + screw + nut
93121633	GEHAK-BN-DD-N0	Power supply 2¾" pipe bracket kit	2 ³ /4" pipe bracket extension + screw + nut
93121634	GEHAK-AN-DD-N0	Power supply 1 ¾" pipe bracket kit	1 ¾" pipe bracket extension + screw + nut
93121635	GEHAK-NN-NE-N0	Power supply suspension kit	1 ft loop to toggle support cable
93121636	GEHAK-NN-NN-J0	Junction box for dimming	Junction box
93122354	GEHAK-NN-NN-D0	Wall-mounted dimming switch	Dimming switch
93139057	GEHAK-NO-AG-N0	90° mounting kit	Bracket + clamp + support cables + 6 ft DC cable

Mechanical outline



	Di	mensions and we	ight	
	Length	Width	Height	Weight
L1000 fixture	44.67″ 1135 mm	6.78″ 172 mm	3.67″ 93.2 mm	7.7 lbs 3.5 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

[6.78] 172

Dimming range	0-10V		
Max source current	450uA		
Dim-to-off	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%		
Absolute maximum dimming vol	tage 20V		
Maximum fixtures per dimmer ³	156		
Dimming control input is non-isolated from Class 1 driver output circuit.	³ For dimmer loading, please contact customer support ⁴ Tested at 45°C per TM-21		

Power factor	>0.9		
Max. remote mount distance	12 ft (3.6 m)		
Cooling	Passive		
Light distribution	Standard 120° / XW XXX°		
Operating environment	0°C to 45°C (32°F to 113°F)		
IP rating	IP66		
Lifetime	L90: >36,000 hours ⁴		
Warranty	Five-year system warranty		
System certifications	UL E492907, CE, DLC⁵		

Order code table

Use with sink dimmers only

