

GE current
a Daintree company

LED HORTICULTURE LIGHTING SYSTEMS



Arize™ Element L1000

Enabling efficient growth at an industrial scale

Efficient

Energy efficiency surpassing $3.5 \mu\text{mol/J}$ makes the L1000 the most efficient grow light in its class

Flexible

Universal bracket and cable options mean the L1000 can be installed on any existing structure in seconds

Powerful

Produces the same light output as a 1000W HPS fixture using only 40% of the energy, with multiple spectral offerings

Reliable

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

www.led.com for the latest in lighting innovations from the inventors of the LED

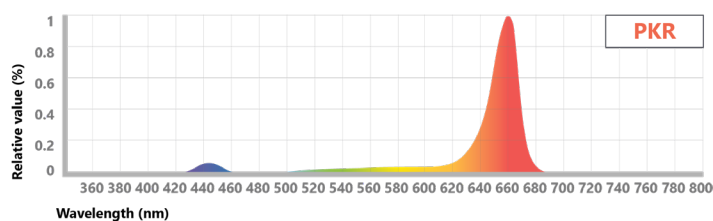
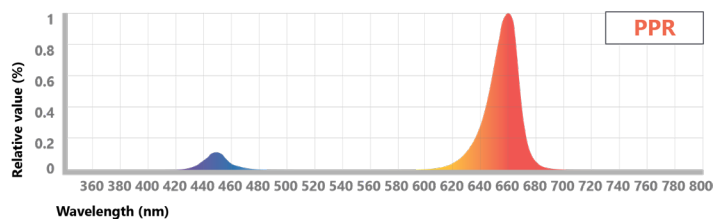


Arize™ Element L1000

Spectra

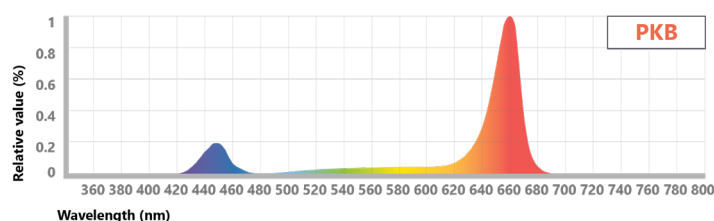
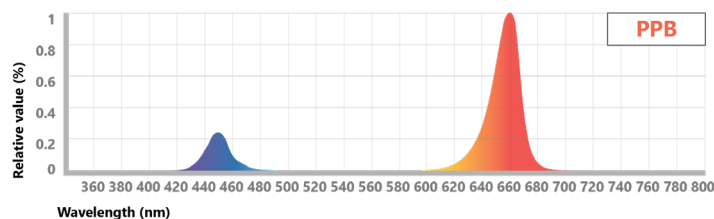
Type R

High red light to optimize plant growth and photosynthesis



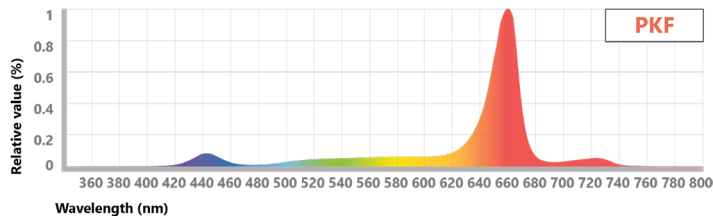
Type B

Light that supports biomass and secondary metabolite production



Type F

Encourages a stretching and expansion response for more robust growth



Spectrum Photon Distribution

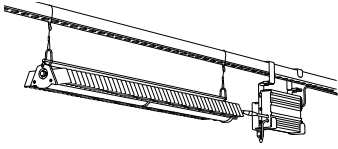
Ratio	Blue PF	Green PF	Red PF	Far Red PF
PPR	9.5%	0.0%	90.5%	0.0%
PPB	18.2%	0.0%	81.8%	0.0%
PKR	8.0%	15.0%	77.0%	0.0%
PKB	15.5%	15.0%	69.5%	0.0%
PKF	7.6%	15.0%	72.4%	5.0%

Optical table

Optical code	Spectrum	Typical photon flux ³ (μmol/s)	Power ⁴ (W)	Efficiency ⁴ (μmol/J)	HPS equivalent (W)
EPPR4	R	623	178	3.5	400
EPPB4	B	612	180	3.4	400
MWTN4	W	740	341	2.17	400
MPPR4	R	1038	310	3.3	600
MPPB4	B	1013	314	3.2	600
HWTN4	W	1230	610	2.02	750
HPPR4	R	1827	599	3.1	1000
HPPB4	B	1761	601	2.9	1000
HPKR4	R	1669	590	2.8	1000
HPKB4	B	1631	597	2.7	1000
HPKF4	F	1531	594	2.6	1000

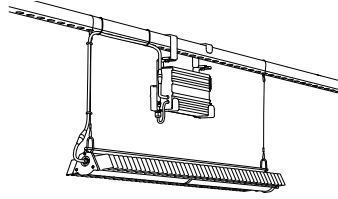
³ Typical PPf +/-10% ⁴ Tested at maximum input voltage

Installation options



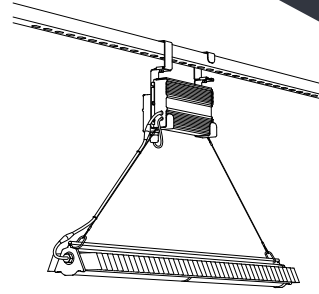
Side-by-side

The out-of-the-box option, with 8" support cables and 1 5/8" square brackets pre-installed on the power supply



Over-under

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



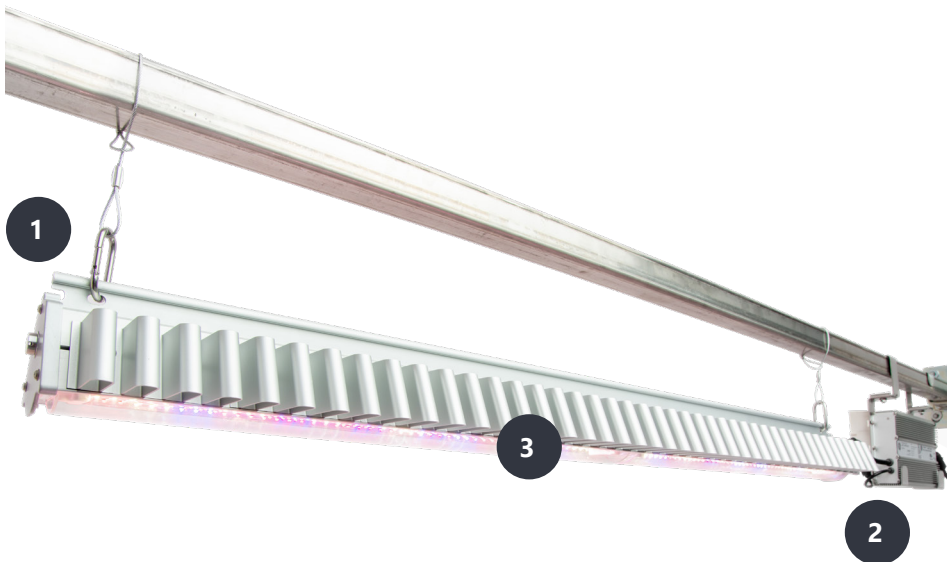
Triangular

Pre-drilled holes in the power supply brackets allow the L1000 to be suspended from the power supply



Power supply

We offer 2 3/4" and 1 3/8" round and square brackets, as well as a 12" toggle cable



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

2 Paper thin

The slim form factor of the L1000 system all but eliminates the shadow tax on plants during the day, letting nature do what it does best

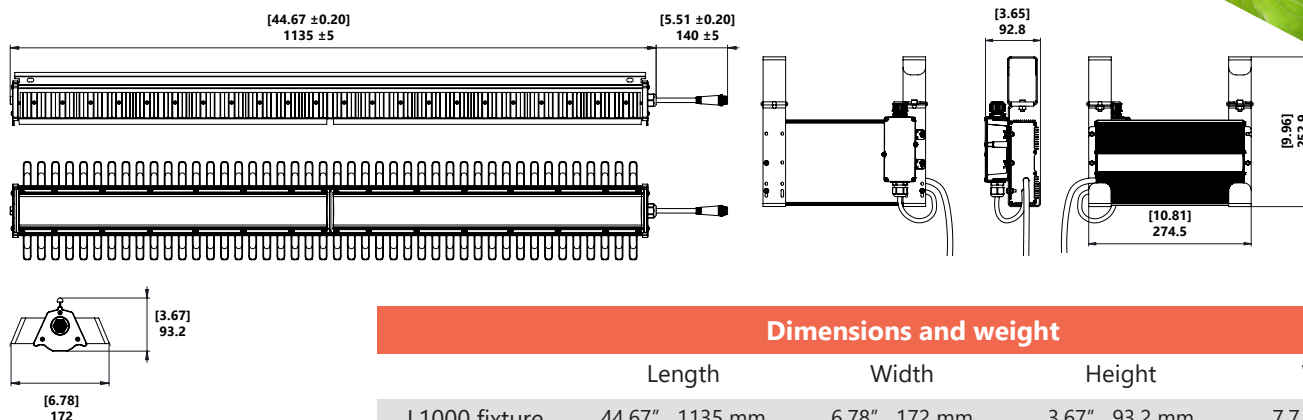
3 Arize for all

Multiple broad, high- and low-blue spectrum offerings maximize year-round production for both indoor and greenhouse growers

Accessories

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 2 3/4" pipe bracket kit	2 3/4" pipe bracket extension + screw + nut
93121634	GEHAK-AN-DD-N0	Power supply 1 3/8" pipe bracket kit	1 3/8" 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

Mechanical outline



Dimensions and weight

	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

Dimming range	0-10V	Power factor	>0.9
Max source current	450uA	Max. remote mount distance	12 ft (3.6 m)
Dim-to-off	Yes	Cooling	Passive
Dim off voltage	0.35-0.65 V (typ. 0.5 V)	Light distribution	120°
Dim on voltage	0.55-0.85 V (typ. 0.7 V)	Operating environment	0°C to 45°C (32°F to 113°F)
Dimming output range	10%-100%	IP rating	IP66
Absolute maximum dimming voltage	20V	Lifetime	L90: >36,000 hours ⁵
Dimming control input is non-isolated from Class 1 driver output circuit.		Warranty	Five-year system warranty
		System certifications	UL E492907, DLC

⁵ Tested at 45°C per TM-21

Order code table

Product ID	Optical code	Input voltage	Distribution	Options	Gen
GEHTL	See optical code table	1 = 120-240V ¹	N = 120°	X = None	1
		2 = 120-277V ²			
		3 = 277-480V ²			

¹ Only available with E optical codes

² Only available with M and H optical codes



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