



# Arize Element<sup>®</sup> R-Series

Enabling efficient growth at an industrial scale

## Efficient

Efficacy levels surpassing 3.2  $\mu\text{mol/J}$  make the Element one of the most efficient, cost-effective grow lights in its class

## Complete

The R-Series replaces and matches the light output of 400, 600 and 1000 Watt HPS fixtures, while consuming half the power.

## Powerful

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

## Reliable

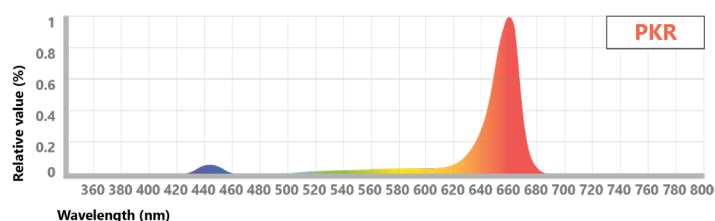
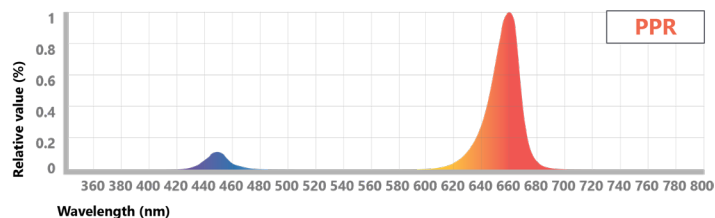
The most extensive reliability testing in the industry and a five-year warranty ensure consistent, predictable yields for years to come

# Arize Element<sup>®</sup> R-Series

## Spectrums

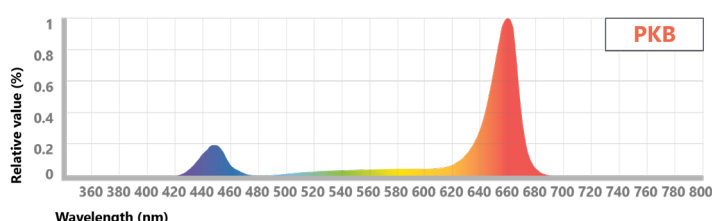
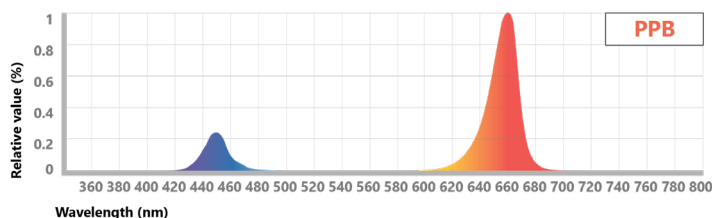
### Type R

High red light to optimize plant growth and photosynthesis



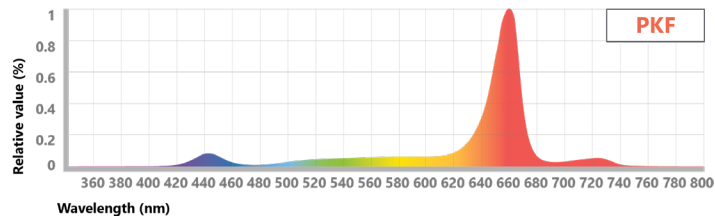
### Type B

Light that supports biomass and secondary metabolite production



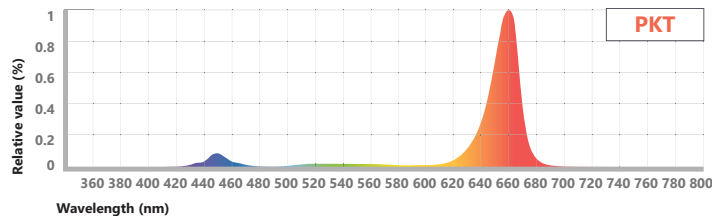
### Type F

Encourages a stretching and expansion response for more robust growth



### Type T

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



### Spectrum Photon Distribution

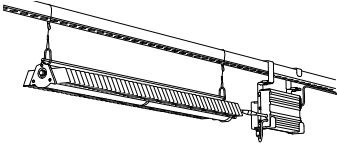
Ratio	Blue PF	Green PF	Red PF	Far Red PF
PPR	10%	0%	90%	0%
PPB	20%	0%	80%	0%
PKR	8%	15%	77%	0%
PKB	16%	15%	69%	0%
PKF	8%	15%	72%	5%
PKT	6%	6%	88%	0%

## Optical Table

Optical code	Spectrum	Typical photon flux <sup>1</sup> (μmol/s)	Power <sup>1</sup> (W)	Efficacy <sup>1</sup> (μmol/J)	Model
HPKR	PKR	1670	570	2.9	R1000
HPKB	PKB	1630	580	2.8	R1000
HPKT	PKT	1800	560	3.2	R1000
HPKF	PKF	1700	590	2.9	R1000
MPKR	PKR	1000	330	3.1	R600
MPKB	PKB	1000	330	3.0	R600
LPPR	PPR	550	170	3.2	R400
LPPB	PPB	550	175	3.0	R400

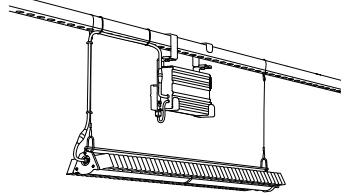
<sup>1</sup> Typical performance +/-10%

## R1000/600 Installation Options



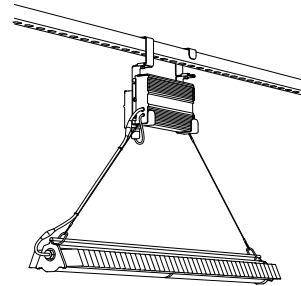
### Standard mount

The out-of-the-box option, with 203mm support cables and 41.2 mm square brackets pre-installed on the power supply



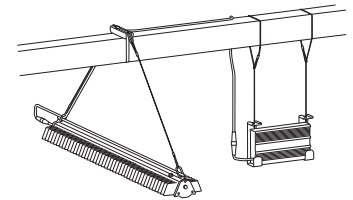
### Suspension kits

609, 1524 & 3048 mm 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



### 90° bracket

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

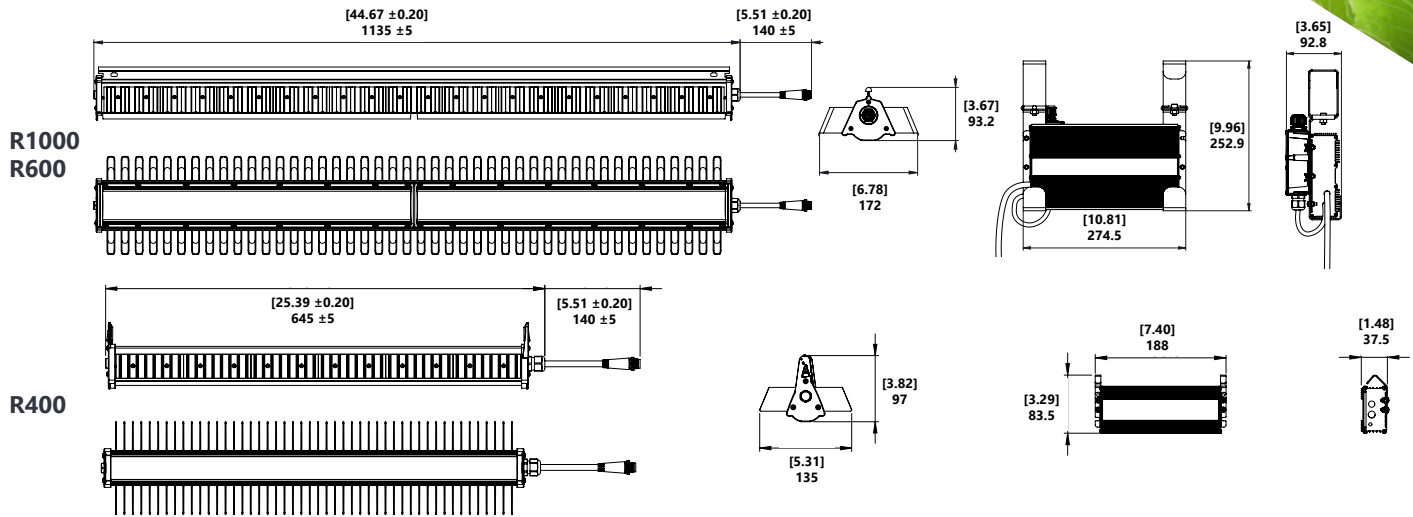
## R1000/R600 Accessories

SKU	Order code	Description	Components
93121626	GEHAK-NN-EB-N0	L1000 609 mm suspension kit	609 mm support cable + 914 mm DC cable
93121628	GEHAK-NN-AC-N0	L1000 1524 mm suspension kit	1524 mm support cable + 1829 mm DC cable
93121630	GEHAK-NN-BD-N0	L1000 3048 mm suspension kit	3048 mm support cable + 3658 mm DC cable
93121632	GEHAK-DN-DD-N0	Power supply 70 mm square bracket kit	70 mm square bracket extension + screw + nut
93121633	GEHAK-BN-DD-N0	Power supply 70 mm pipe bracket kit	70 mm pipe bracket extension + screw + nut
93121634	GEHAK-AN-DD-N0	Power supply 35 mm pipe bracket kit	35 mm pipe bracket extension + screw + nut
93121635	GEHAK-NN-NE-N0	Power supply suspension kit	305 mm 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, 1829 mm DC cable

## R400 Accessories

SKU	Order code	Description
93300888	GEMB-WAT6-E1	Wireform bracket for screwless waterproof junction box
93300889	Junction Box B704	Screwless waterproof junction box B704

# Mechanical Outline



## Dimensions and weight

	Length	Width	Height	Weight
R1000/600 fixture	44.67" 1135 mm	6.78" 172 mm	3.67" 93.2 mm	7.7 lbs 3.5 kg
R1000/600 driver	10.81" 274.5 mm	9.96" 252.9 mm	3.65" 92.8 mm	7.7 lbs 3.5 kg
R400 fixture	25.39" 645 mm	5.31" 135 mm	3.82" 97 mm	3.3 lbs 1.5 kg
R400 driver	7.40" 188 mm	1.48" 37.5 mm	3.29" 83.5 mm	2.2 lbs 1 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 <sup>2</sup>	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	Off/10%-100%	IP rating	IP66
Absolute maximum dimming voltage	20V	Lifetime	L90: >36,000 hours <sup>4</sup>
Dimming control input is non-isolated from Class 1 driver output circuit. Use with sink dimmers only.	<sup>2</sup> Refer to installation guide for dimming functionality details. For dimmer loading, please contact customer support <sup>4</sup> Tested at 45°C per TM-21	Warranty	Five-year system warranty
		System certifications	CE, UKCA

## Order Code Table

Product ID	Optical code	Input voltage	Distribution	Options	Gen	Connectors
GEHTL	See optical code table	9 = 220-240V <sup>5</sup>	N = 120°	X = None	1	R = None
		8 = 380-415V <sup>6</sup>		A = Amphenol connector on dimming wire		WR = Wieland connector on AC input

<sup>5</sup> Only available with L optical codes

<sup>6</sup> Only available with M and H optical codes



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