

**GE current**  
a Daintree company

LED HORTICULTURE LIGHTING SYSTEMS

# Arize Factor<sup>®</sup> ML300



Scalable lighting system for multi-layer cultivation

## Optimized

Three broad light spectrums optimized for efficiency encourage growth at every stage, from seed to harvest

## Scalable

Modular 4-, 5-, and 6-bar arrays offer a variety of power levels, and multiple mounting options install quickly on any grow rack

## Powerful

The unique optical design of the ML300 allows growers to meet PPFd needs with up to 3x fewer fixtures

## Assembled in the USA

Trusted manufacturing, a standard five-year warranty and a >50,000 hour lifetime ensure consistent, predictable yields for years to come

Visit [www.led.com](http://www.led.com) for the latest in lighting innovations from the inventors of the LED

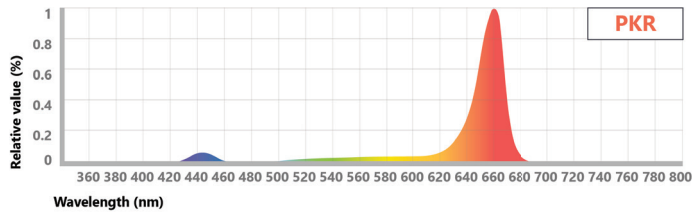


# Arize Factor® ML300

## Spectrums

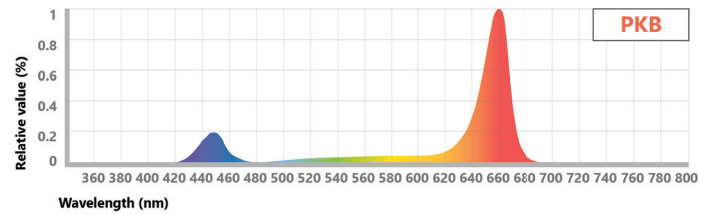
### Type R

High red light to optimize plant growth and photosynthesis



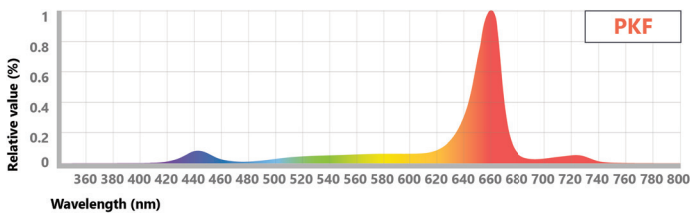
### Type B

Light that supports biomass and secondary metabolite production



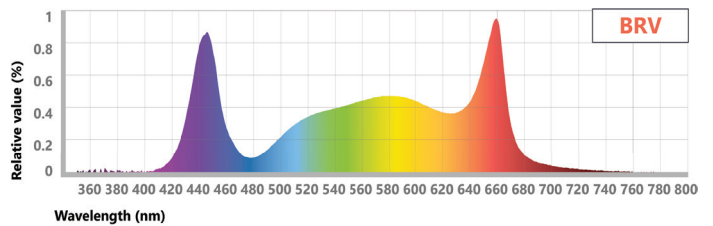
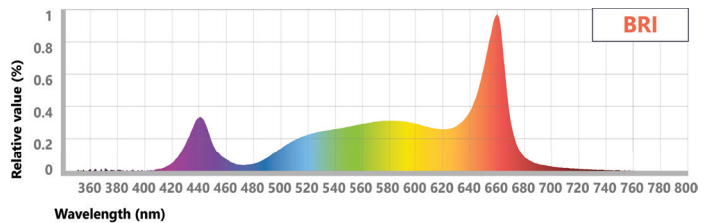
### Type F

Encourages an expansion response for more robust growth



### Type BR

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



### Spectrum Photon Distribution

Ratio	Blue PF	Green PF	Red PF	Far Red PF
PKR	8%	15%	77%	0%
PKB	16%	15%	69%	0%
PKF	8%	15%	72%	5%
BRI	15%	38%	47%	0%
BRV	25%	38%	37%	0%

## Spectrum Table

Array	Spectrum	Photon Flux <sup>1</sup> ( $\mu\text{mol/s}$ )	Power <sup>2</sup> (W)	Efficacy <sup>2</sup> ( $\mu\text{mol/J}$ )	DC Input Voltage	Light Bar Model No. <sup>3</sup>
4-bar	PKR	1148	415	2.8	45	GEHF-MPKRW1
	PKB	1152	415	2.8	45	GEHF-MPKBW1
	PKF	1134	423	2.7	45	GEHF-MPKFW1
	BRI	992	424	2.3	45	GEHF-MBRIW1
	BRV	984	424	2.3	45	GEHF-MBRVW1
5-bar	PKR	1436	519	2.8	45	GEHF-MPKRW1
	PKB	1440	519	2.8	45	GEHF-MPKBW1
	PKF	1417	529	2.7	45	GEHF-MPKFW1
	BRI	1240	530	2.3	45	GEHF-MBRIW1
	BRV	1230	530	2.3	45	GEHF-MBRVW1
6-bar	PKR	1723	622	2.8	45	GEHF-MPKRW1
	PKB	1728	622	2.8	45	GEHF-MPKBW1
	PKF	1701	635	2.7	45	GEHF-MPKFW1
	BRI	1488	636	2.3	45	GEHF-MBRIW1
	BRV	1476	636	2.3	45	GEHF-MBRVW1

<sup>1</sup> Typical PPF +/-10%    <sup>2</sup> Tested at maximum input voltage of 480VAC    <sup>3</sup> See Order Code Table on page 4 for ordering logic

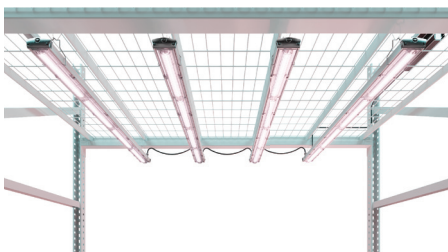
## Accessories

Order Code	SKU	Description	Box Quantity
GECA30C18-BA03B	93118693	914 mm Interconnection Cable, CE	60
GECA30B18-BA06B	93067609	152 mm Interconnection Cable, CE	32
GECA30B18-BA12B	93067610	304 mm Interconnection Cable, CE	16
GEHR-BRA WIREFORM	93153914	Factor Suspended Mount Wireform Bracket	1
GEHR-BRAWIREFORM 1X5/8	95052672	Factor Suspended Mount Wireform Bracket 4.13cm	1
GEMB-BAW1	93153918	Factor Rolling Rack Mount, 60.96 cm	1
GEMB-BAW2	93153917	Factor Rolling Rack Mount, 121.92 cm	1
GEHAK-NN-NE-N0	95047411	304 mm Power Supply Remote Mounting Kit	1

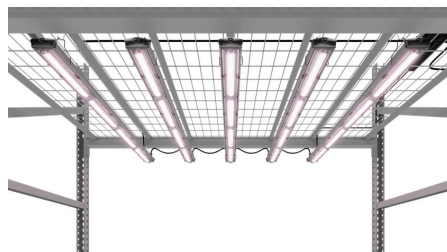
## High Voltage Accessories

Order Code	SKU	Description	Box Quantity
GEMB-WAS1	93153268	Power Supply Hanger	1
GEMB-CBH1	93153270	450 mm (18 inch) Universal Cable	1
GEMB-CBH5	93154044	600 mm (24 inch) Universal Cable	1
GEMB-CBH4	93154043	900 mm (36 inch) Universal Cable	1
GEMB-CBH2	93153281	1500 mm (60 inch) Universal Cable	1
GECA30H20-OO03B	93149020	Dimming Cable	1
GECA60FNA-NL00B	93153189	AC Wieland Field Installable Connector	1
GECA60D16-OL04B	93149021	AC Leader Cable	1

## Arrays



**4-bar**



**5-bar**

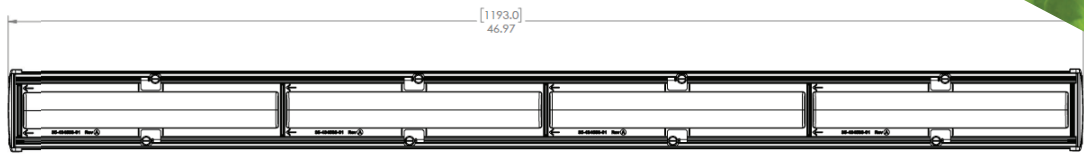
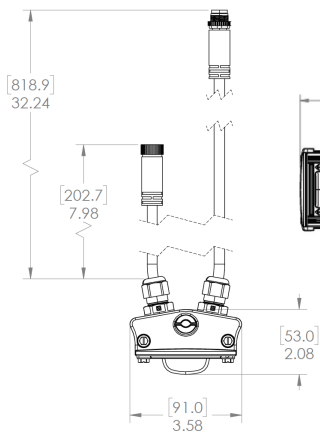


**6-bar**

The Factor ML300 adapts to your setup, not the other way around.  
Customize the number of bars and spacing for tailored coverage and PPFD.



# Mechanical Outline



Dimensions and Weight						
	Length		Width		Height	
Fixture	46.97"	1193 mm	3.58"	91 mm	2.08"	53 mm
Power Supply <sup>1</sup>	10.81"	275 mm	9.96"	253 mm	3.65"	93 mm
Power Supply <sup>2</sup>	12.60"	320 mm	5.94"	151 mm	1.81"	46 mm

<sup>1</sup> 220-240V input voltage    <sup>2</sup> 380-415V input voltage

# Specifications

Dimming Range	0-10V	Power Factor	>0.9
Max Source Current	450uA	Max. Remote Mount Distance	6 ft (1.83 m)
Dim-to-off <sup>3</sup>	Yes	Cooling	Passive
Dim Off Voltage	0.35-0.65 V (typ. 0.5 V)	Light Distribution	140°
Dim On Voltage	0.55-0.85 V (typ. 0.7 V)	Operating Environment	0°C to 40°C (32°F to 104°F)
Dimming Output Range	10%-100%	IP Rating	IP65
Absolute Maximum Dimming Voltage	20V	Lifetime	L90: >50,000 hours <sup>4</sup>
For input voltage option 3, dimming control input is non-isolated from Class 1 driver output circuit. Use with sink dimmers only		Warranty	Five-year system warranty
		System Certifications	cULus E492907, CE, UKCA

<sup>3</sup> Refer to installation guide for dimming functionality details  
<sup>4</sup> Tested at 30°C per TM-21

# Order Code Table

Product ID	Model	Mounting	Spectrum	Input Voltage	Distribution	Options	Gen	Packaging
GEHF	M4 = 4x MO bars, 1x 600W driver	S = Suspended	PKR	7 = 220-240V	W = Wide Batwing	X = Leader Cable, Open Lead	1	[Blank] = Single Pack
	M5 = 5x MO bars, 1x 600W driver	X = Suspended + PS Wireform <sup>1</sup>	PKB	8 = 380-415V		N = No Leader Cable		M1 = Bulk Pack
	M6 = 6x MO bars, 1x 600W driver	U = 413mm Unistrut	PKF	N = No PS				
			BRI					
			BRV					



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Electrical products must not be thrown out with domestic waste. They must be taken to a communal collecting point for environmentally friendly disposal in accordance with local regulations. Contact your local authorities or stockist for advice on recycling. The packaging material is recyclable. Dispose of the packaging in an environmentally friendly manner and make it available for the recyclable material collection-service.